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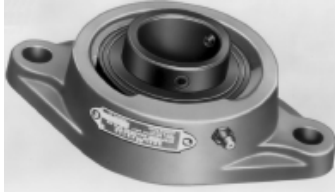
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**Bearings**

**Bearings by Sealmaster**

**2 Bolt Flange**



SERVICEFIRST ITEM NO	BORE SIZE
BRG00646	1-5/16"
BRG00647	1-3/16"
BRG00648	1-7/16"
BRG01568	1-13/16"

**4 Bolt Flange**



SERVICEFIRST ITEM NO	BORE SIZE
BRG01559	1-11/16"
BRG01561	2-3/16"
BRG01562	2-7/16"

**Pillow Block**



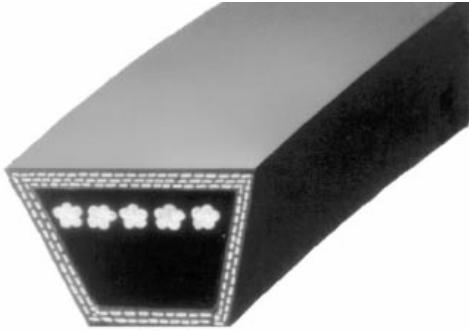
SERVICEFIRST ITEM NO	BORE SIZE
BRG00649	1-3/16"
BRG01546	1-7/16"
BRG00651	1-11/16"

# Air Handling Components

## Belts By Browning

### Fraction Horsepower Belts

#### 3L Belts



SERVICEFIRST ITEM NO	VENDOR ITEM NO	Outside Length	Pitch Length
BLL00318	3L150	15.0	14.3
BLL00360	3L180	18.0	17.3
BLL00319	3L190	19.0	18.3
BLL00350	3L200	20.0	19.3
B00072	3L210	21.0	20.3
B00419	3L220	22.0	21.3
B00061	3L230	23.0	22.3
B00213	3L240	24.0	23.3
B00214	3L250	25.0	24.3
B00215	3L260	26.0	25.3
B00216	3L270	27.0	26.3
B00350	3L280	28.0	27.3
B00420	3L290	29.0	28.3
B00421	3L300	30.0	29.3
B00422	3L310	31.0	30.3
B00423	3L320	32.0	31.3
B00424	3L330	33.0	32.3
B00425	3L340	34.0	33.3
B00426	3L350	35.0	34.3
B00427	3L360	36.0	35.3
B00428	3L370	37.0	36.3
B00030	3L380	38.0	37.3
B00429	3L390	39.0	38.3
B00430	3L400	40.0	39.3
B00351	3L410	41.0	40.3
B00431	3L420	42.0	41.3
B00352	3L430	43.0	42.3
B00432	3L440	44.0	43.3
B00433	3L450	45.0	44.3
B00434	3L460	46.0	45.3
B00435	3L470	47.0	46.3
B00436	3L480	48.0	47.3
B00437	3L490	49.0	48.3
BLL00082	3L530	53.0	52.3
B00441	4L670	67.0	66.0

**Belts By Browning**

**Fraction Horsepower Belts**

**4L Belts**

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Outside Length	Pitch Length
BLL00753	4L170	17.0	16.0
BLL00754	4L180	18.0	17.0
BLL00343	4L190	19.0	18.0
BLL00345	4L200	20.0	19.0
BLL00344	4L210	21.0	20.0
BLL00315	4L220	22.0	21.0
B00807	4L230	23.0	22.0
B00802	4L240	24.0	23.0
BLL00316	4L250	25.0	24.0
BLL00317	4L260	26.0	25.0
BLL00077	4L270	27.0	26.0
B00249	4L280	28.0	27.0
B00438	4L290	29.0	28.0
B00818	4L300	30.0	29.0
B00816	4L310	31.0	30.0
B00001	4L320	32.0	31.0
B00077	4L330	33.0	32.0
B00088	4L340	34.0	33.0
B00005	4L350	35.0	34.0
B00007	4L360	36.0	35.0
B00008	4L370	37.0	36.0
B00022	4L380	38.0	37.0
B00018	4L400	40.0	39.0
B00026	4L410	41.0	40.0
BLL00276	4L415	41.5	40.5
B00024	4L420	42.0	41.0
B00105	4L430	43.0	42.0
B00031	4L440	44.0	43.0
B00029	4L450	45.0	44.0
B00027	4L460	46.0	45.0
B00084	4L470	47.0	46.0
B00354	4L480	48.0	47.0
B00023	4L490	49.0	48.0
B00025	4L500	50.0	49.0
B00074	4L510	51.0	50.0
B00065	4L520	52.0	51.0
B00067	4L530	53.0	52.0
B00099	4L540	54.0	53.0
B00141	4L550	55.0	54.0
B00355	4L560	56.0	55.0
B00356	4L570	57.0	56.0
B00144	4L580	58.0	57.0
B00145	4L590	59.0	58.0
B00357	4L600	60.0	59.0
B00439	4L610	61.0	60.0
B00133	4L620	62.0	61.0
B00101	4L630	63.0	62.0
B00440	4L640	64.0	63.0
B00132	4L650	65.0	64.0
B00358	4L660	66.0	65.0
B00359	4L680	68.0	67.0
B00085	4L690	69.0	68.0
B00009	4L740	74.0	73.0
B00013	4L750	75.0	74.0

## Air Handling Components

### Belts By Browning

#### Fraction Horsepower Belts

##### 4L Belts

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Outside Length	Pitch Length
B00126	4L390	39.0	38.0
B00062	4L700	70.0	69.0
B00360	4L710	71.0	70.0
B00038	4L720	72.0	71.0
B00442	4L730	73.0	72.0
BLL00325	4L760	76.0	75.0
BLL00758	4L770	77.0	76.0
B00361	4L780	78.0	77.0
B00032	4L790	79.0	78.0
BLL00735	4L820	82.0	81.0
BLL00736	4L830	83.0	82.0
BLL00737	4L840	84.0	83.0
BLL00738	4L850	85.0	84.0
BLL00739	4L860	86.0	85.0
BLL00740	4L870	87.0	86.0
BLL00741	4L880	88.0	87.0
BLL00742	4L890	89.0	88.0
BLL00743	4L900	90.0	89.0
BLL00744	4L910	91.0	90.0
BLL00745	4L920	92.0	91.0
BLL00746	4L930	93.0	92.0
BLL00747	4L940	94.0	93.0
BLL00748	4L950	95.0	94.0
BLL00749	4L960	96.0	95.0
BLL00750	4L970	97.0	96.0
BLL00751	4L980	98.0	97.0
BLL00752	4L990	99.0	98.0

**Belts By Browning**

**Fraction Horsepower Belts**

**5L Belts**

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Outside Length	Pitch Length
BLL00659	5L230	23.0	21.8
BLL00660	5L240	24.0	22.8
BLL00661	5L250	25.0	23.8
BLL00662	5L260	26.0	24.8
B00826	5L270	27.0	25.8
BLL00664	5L280	28.0	26.8
BLL00665	5L290	29.0	27.8
BLL00277	5L300	30.0	28.8
BLL00278	5L310	31.0	29.8
BLL00279	5L320	32.0	30.8
BLL00280	5L330	33.0	31.8
BLL00281	5L340	34.0	32.8
BLL00282	5L350	35.0	33.8
BLL00283	5L360	36.0	34.8
BLL00284	5L370	37.0	35.8
B00004	5L380	38.0	36.8
B00443	5L390	39.0	37.8
B00444	5L400	40.0	38.8
B00002	5L410	41.0	39.8
B00445	5L420	42.0	40.8
B00823	5L430	43.0	41.8
B00446	5L440	44.0	42.8
B00800	5L450	45.0	43.8
B00806	5L460	46.0	44.8
B00447	5L470	47.0	45.8
B00821	5L480	48.0	46.8
B00362	5L490	49.0	47.8
B00142	5L500	50.0	48.8
B00448	5L510	51.0	49.8
B00363	5L520	52.0	50.8
B00449	5L530	53.0	51.8
B00801	5L540	54.0	52.8
B00450	5L550	55.0	53.8
B00019	5L560	56.0	54.8
B00451	5L570	57.0	55.8
B00020	5L580	58.0	56.8
B00452	5L590	59.0	57.8

## Air Handling Components

### Belts By Browning

#### Fraction Horsepower Belts

##### 5L Belts

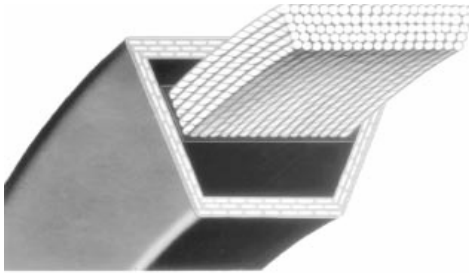
SERVICEFIRST ITEM NO	VENDOR ITEM NO	Outside Length	Pitch Length
B00370	5L600	60.0	58.8
BLL00695	5L610	61.0	59.8
BLL00372	5L620	62.0	60.8
B00364	5L630	63.0	61.8
BLL00285	5L640	64.0	62.8
B00390	5L650	65.0	63.8
B00003	5L660	66.0	64.8
BLL00700	5L670	67.0	65.8
B00365	5L680	68.0	66.8
B00014	5L690	69.0	67.8
BLL00703	5L700	70.0	68.8
BLL00704	5L710	71.0	69.8
B00011	5L720	72.0	70.8
BLL00706	5L730	73.0	71.8
BLL00707	5L740	74.0	72.8
BLL00708	5L750	75.0	73.8
BLL00709	5L760	76.0	74.8
BLL00710	5L770	77.0	75.8
B00071	5L780	78.0	76.8
BLL00712	5L790	79.0	77.8
BLL00713	5L800	80.0	78.8
BLL00714	5L810	81.0	79.8
BLL00715	5L820	82.0	80.0
BLL00716	5L830	83.0	81.8
BLL00717	5L840	84.0	82.8
BLL00718	5L850	85.0	83.8
BLL00719	5L860	86.0	84.8
BLL00720	5L870	87.0	85.8
BLL00721	5L880	88.0	86.8
BLL00722	5L890	89.0	87.8
BLL00723	5L900	90.0	88.8
BLL00724	5L910	91.0	89.8
BLL00725	5L920	92.0	90.8
BLL00726	5L930	93.0	91.8
BLL00727	5L940	94.0	92.8
BLL00728	5L950	95.0	93.8
BLL00729	5L960	96.0	94.8
BLL00730	5L970	97.0	95.8
BLL00731	5L980	98.0	96.8
BLL00732	5L990	99.0	97.8



**Belts By Browning**

**Super Gripbelts**

**A Belts**



SERVICEFIRST ITEM NO	VENDOR ITEM NO	Outside Length	Pitch Length
BLL00346	A23	25.2	24.3
BLL00362	A24	26.2	25.3
BLL00347	A25	27.2	26.3
B00263	A26	28.2	27.3
BLL00359	A27	29.2	28.3
BLL00348	A28	30.2	29.3
BLL00305	A29	31.2	30.3
B00453	A30	32.2	31.3
B00313	A31	33.2	32.3
B00314	A32	34.2	33.3
B00315	A33	35.2	34.3
BLL00035	A34	36.2	35.3
B00317	A35	37.2	36.3
B00318	A36	38.2	37.3
BLL00036	A37	39.2	38.3
B00078	A38	40.2	39.3
B00319	A39	41.2	40.3
B00381	A40	42.2	41.3
B00222	A41	43.2	42.3
B00042	A42	44.2	43.3
B00075	A43	45.2	44.3
B00378	A44	46.2	45.3
B00221	A45	47.2	46.3
B00143	A46	48.2	47.3
B00454	A47	49.2	48.3
B00076	A48	50.2	49.3
B00320	A49	51.2	50.3
B00388	A50	52.2	51.3
B00128	A51	53.2	52.3
B00389	A52	54.2	53.3
B00089	A53	55.2	54.3
B00073	A54	56.2	55.3
B00053	A55	57.2	56.3
B00069	A56	58.2	57.3
BLL00001	A57	59.2	58.3
B00068	A58	60.2	59.3
BLL00201	A59	61.2	60.3
B00220	A60	62.2	61.3
BLL00081	A61	63.2	62.3
B00052	A62	64.2	63.3
BLL00039	A63	65.2	64.3
B00154	A64	66.2	65.3
BLL00287	A65	67.2	66.3
B00134	A66	68.2	67.3
B00395	A67	69.2	68.3
B00035	A68	70.2	69.3
B00491	A69	71.2	70.3
B00178	A70	72.2	71.3
B00036	A71	73.2	72.3
B00492	A72	74.2	73.3
B00493	A73	75.2	74.3
BLL00040	A74	76.2	75.3
B00045	A75	77.2	76.3
BLL00288	A76	78.2	77.3
B00494	A77	79.2	78.3
B00102	A78	80.2	79.3
BLL00041	A79	81.2	80.3
B00063	A80	82.2	81.3
B00403	A81	83.2	82.3
B00507	A82	84.2	83.3

## Air Handling Components

### Belts By Browning

#### Super Gripbelts

##### A Belts

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Outside Length	Pitch Length
BLL00043	A83	85.2	84.3
BLL00037	A84	86.2	85.3
B00041	A85	87.2	86.3
BLL00395	A86	88.2	87.3
BLL00759	A87	89.2	88.3
BLL00333	A88	90.2	89.3
B00402	A89	91.2	90.3
B00040	A90	92.2	91.3
BLL00760	A91	93.2	92.3
BLL00038	A92	94.2	93.3
BLL00761	A94	96.2	95.3
BLL00336	A95	97.2	96.3
B00086	A96	98.2	97.3
BLL00392	A97	99.2	98.3
BLL00762	A98	100.2	99.3
BLL00042	A100	102.2	101.3
BLL00606	A103	105.2	104.3
B00093	A105	107.2	106.3
B00270	A110	112.2	111.3
B00271	A112	114.2	113.3
B00272	A120	122.2	121.3
B00273	A128	130.2	129.3
B00371	A136	138.2	137.3
BLL00763	A144	146.2	145.3
BLL00369	A158	160.2	159.3
BLL00382	A173	175.2	174.3
BLL00764	A180	182.2	181.3

**Belts By Browning**

**Super Gripbelts**

**B Belts**

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Outside Length	Pitch Length
BLL00771	B25	28.0	26.8
BLL00355	B28	31.0	29.8
BLL00772	B29	32.0	30.8
BLL00773	B30	33.0	31.8
BLL00356	B31	34.0	32.8
BLL00357	B32	35.0	33.8
BLL00330	B33	36.0	34.8
BLL00053	B34	37.0	35.8
BLL00304	B35	38.0	36.8
BLL00358	B36	39.0	37.8
BLL00303	B37	40.0	38.8
BLL00312	B38	41.0	39.8
BLL00139	B39	42.0	40.8
BLL00045	B40	43.0	41.8
BLL00289	B41	44.0	42.8
B00120	B42	45.0	43.8
BLL00290	B43	46.0	44.8
B00383	B44	47.0	45.8
BLL00046	B45	48.0	46.8
B00276	B46	49.0	47.8
BLL00050	B47	50.0	48.8
B00277	B48	51.0	49.8
B00400	B49	52.0	50.8
B00153	B50	53.0	51.8
B00278	B51	54.0	52.8
B00090	B52	55.0	53.8
B00152	B53	56.0	54.8
B00279	B54	57.0	55.8
B00280	B55	58.0	56.8
B00070	B56	59.0	57.8
B00404	B57	60.0	58.8
B00253	B58	61.0	59.8
B00281	B59	62.0	60.8
B00282	B60	63.0	61.8
B00122	B61	64.0	62.8
B00123	B62	65.0	63.8
B00283	B63	66.0	64.8
B00284	B64	67.0	65.8
B00285	B65	68.0	66.8
B00286	B66	69.0	67.8
B00287	B67	70.0	68.8
B00248	B68	71.0	69.8
B00495	B69	72.0	70.8
B00243	B70	73.0	71.8
B00288	B71	74.0	72.8
B00505	B72	75.0	73.8
B00368	B73	76.0	74.8
B00506	B74	77.0	75.8
B00254	B75	78.0	76.8
B00398	B76	79.0	77.8
B00264	B77	80.0	78.8
B00289	B78	81.0	79.8
B00290	B79	82.0	80.8
B00242	B80	83.0	81.8
B00291	B81	84.0	82.8
B00292	B82	85.0	83.8

# Air Handling Components

## Belts By Browning

### Super Gripbelts

#### B Belts

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Outside Length	Pitch Length
B00046	B83	86.0	84.8
BLL00047	B84	87.0	85.8
B00047	B85	88.0	86.8
BLL00054	B86	89.0	87.8
BLL00048	B87	90.0	88.8
B00177	B88	91.0	89.8
B00496	B89	92.0	90.8
B00265	B90	93.0	91.8
BLL00092	B91	94.0	92.8
BLL00055	B92	95.0	93.8
B00293	B93	96.0	94.8
BLL00049	B94	97.0	95.8
B00100	B95	98.0	96.8
B00261	B96	99.0	97.8
B00096	B97	100.0	98.8
B00508	B98	101.0	99.8
B00294	B99	102.0	100.8
B00095	B100	103.0	101.8
BLL00609	B101	104.0	102.8
B00295	B103	106.0	104.8
B00048	B105	108.0	106.8
B00296	B108	111.0	109.8
BLL00334	B111	114.0	112.8
B00049	B112	115.0	113.8
B00297	B116	119.0	117.8
B00051	B120	123.0	121.8
B00113	B124	127.0	125.8
B00050	B128	131.0	129.8
B00298	B133	136.0	134.8
B00299	B136	139.0	137.8
B00300	B140	143.0	141.8
B00301	B144	147.0	145.8
BLL00056	B148	151.0	149.3
BLL00430	B150	153.0	151.8
B00392	B154	157.0	155.8
B00302	B158	161.0	159.8
BLL00775	B162	165.0	163.8
BLL00291	B173	176.0	174.8
BLL00776	B180	183.0	181.8
BLL00373	B190	193.0	191.8
BLL00052	B195	198.0	196.8
BLL00770	B205	208.0	206.9
BLL00777	B210	213.0	211.8
BLL00778	B225	256.5	255.3
BLL00779	B240	241.5	240.3
BLL00780	B255	256.5	255.3
BLL00765	B270	271.5	270.3
BLL00766	B285	286.5	285.3
BLL00767	B300	301.5	300.3
BLL00768	B315	316.5	315.3
BLL00769	B360	361.5	360.3

**Belts By Browning**

**Super Gripbelts**

**C Belts**

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Outside Length	Pitch Length
BLL00781	C51	55.2	53.9
BLL00370	C60	64.2	62.9
BLL00388	C68	72.2	70.9
BLL00416	C72	76.2	74.9
B00303	C75	79.2	77.9
B00304	C81	85.2	83.9
B00305	C85	89.2	87.9
B00306	C90	94.2	92.9
B00239	C96	100.2	98.9
BLL00396	C99	103.2	101.9
B00372	C100	104.2	102.9
B00233	C105	109.2	107.9
BLL00399	C108	112.2	110.9
B00307	C109	113.2	111.9
B00240	C112	116.2	114.9
B00367	C115	119.2	117.9
B00308	C120	124.2	122.9
B00309	C128	132.2	130.9
B00310	C136	140.2	138.9
B00311	C144	148.2	146.9
BLL00782	C150	154.2	152.9
B00312	C158	162.2	160.9
BLL00429	C162	166.2	164.9
BLL00292	C173	177.2	175.9
BLL00390	C180	184.2	182.9
BLL00363	C195	199.2	197.9
BLL00293	C210	214.2	212.9
BLL00341	C225	227.2	225.9
BLL00368	C240	242.2	240.9
BLL00783	C255	257.2	255.9
BLL00784	C270	272.2	270.9
BLL00427	C285	287.2	285.9
BLL00785	C300	302.2	300.9
BLL00786	C315	317.2	315.9
BLL00787	C330	332.2	330.9
BLL00788	C345	347.2	345.9
BLL00789	C360	362.2	360.9
BLL00790	C390	392.2	390.9
BLL00791	C420	422.2	420.9

**Premium Griptwist Belts**

Adjustable to any length

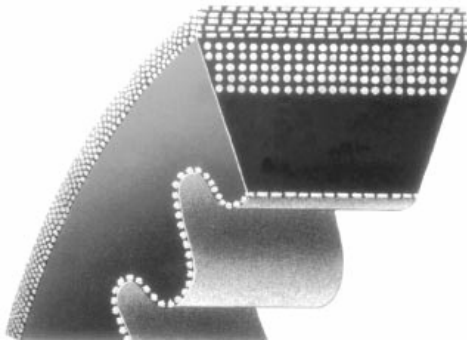
SERVICEFIRST ITEM NO	Description	Length
BLL01617	AP Griptwist	10 Ft. Sleeve
BLL01618	BP Griptwist	10 Ft. Sleeve

# Air Handling Components

## Belts By Browning

### Gripnotch Belts

#### AX Belts



SERVICEFIRST ITEM NO	VENDOR ITEM NO	Outside Length	Pitch Length
BLL00431	AX21	23.2	22.3
BLL00432	AX22	24.2	21.3
BLL00433	AX23	25.2	22.3
BLL00434	AX24	26.2	25.3
BLL00435	AX25	27.2	26.3
BLL00044	AX26	28.2	27.3
BLL00436	AX27	29.2	28.3
BLL00084	AX28	30.2	29.3
BLL00437	AX29	31.2	30.3
BLL00438	AX30	32.2	31.3
BLL00078	AX31	33.2	32.3
BLL00439	AX32	34.2	33.3
BLL00083	AX33	35.2	34.3
BLL00269	AX34	36.2	35.3
BLL00080	AX35	37.2	36.3
BLL00079	AX36	38.2	37.3
BLL00270	AX37	39.2	38.3
B00477	AX38	40.2	39.3
BLL00440	AX39	41.2	40.3
BLL00441	AX40	42.2	41.3
BLL00442	AX41	43.2	42.3
B00418	AX42	44.2	43.3
B00396	AX43	45.2	44.3
BLL00443	AX44	46.2	45.3
BLL00444	AX45	47.2	46.3
B00260	AX46	48.2	47.3
BLL00445	AX47	49.2	48.3
B00259	AX48	50.2	49.3
BLL00446	AX49	51.2	50.3
BLL00447	AX50	52.2	51.3
B00185	AX51	53.2	52.3
BLL00448	AX52	54.2	53.3
B00166	AX53	55.2	54.3
B00173	AX54	56.2	55.3
B00191	AX55	57.2	56.3
B00184	AX56	58.2	57.3
BLL00449	AX57	59.2	58.3
BLL00450	AX58	60.2	59.3
BLL00451	AX59	61.2	60.3
B00156	AX60	62.2	61.3
BLL00452	AX61	63.2	62.3
B00197	AX62	64.2	63.3
BLL00453	AX63	65.2	64.3
B00196	AX64	66.2	65.3
BLL00454	AX65	67.2	66.3
B00262	AX66	68.2	67.3
BLL00455	AX67	69.2	68.3
B00384	AX68	70.2	69.3
BLL00456	AX69	71.2	70.3
B00323	AX70	72.2	71.3
B00324	AX71	73.2	72.3
BLL00457	AX72	74.2	73.3
BLL00458	AX73	75.2	74.3
BLL00459	AX74	76.2	75.3
B00225	AX75	77.2	76.3
BLL00460	AX76	78.2	77.3
BLL00461	AX77	79.2	78.3
B00202	AX78	80.2	79.3
BLL00462	AX79	81.2	80.3
B00157	AX80	82.2	81.3

**Belts By Browning**

**Gripnotch Belts**

**AX Belts**

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Outside Length	Pitch Length
BLL00463	AX81	83.2	82.3
BLL00464	AX82	84.2	83.3
BLL00465	AX83	85.2	84.3
BLL00466	AX84	86.2	85.3
B00203	AX85	87.2	86.3
BLL00467	AX86	88.2	87.3
BLL00468	AX87	89.2	88.3
BLL00469	AX88	90.2	89.3
BLL00470	AX89	91.2	90.3
B00211	AX90	92.2	91.3
BLL00471	AX91	93.2	92.3
BLL00321	AX92	94.2	93.3
BLL00472	AX93	95.2	94.3
BLL00473	AX94	96.2	95.3
BLL00474	AX95	97.2	96.3
B00210	AX96	98.2	97.3
BLL00475	AX97	99.2	98.3
BLL00476	AX98	100.2	99.3
BLL00477	AX100	102.2	101.3
B00325	AX105	107.2	106.3
BLL00271	AX110	112.2	111.3
B00326	AX112	114.2	113.3
B00327	AX120	122.2	121.3
BLL00272	AX128	130.2	129.3
BLL00273	AX136	138.2	137.3
BLL00274	AX144	146.2	145.3

## Air Handling Components

### Belts By Browning

#### Gripnotch Belts

##### BX Belts

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Outside Length	Pitch Length
BLL00478	BX28	31.0	29.8
BLL00479	BX32	35.0	33.8
BLL00480	BX34	37.0	35.8
BLL00322	BX35	38.0	36.8
BLL00481	BX36	39.0	37.8
BLL00326	BX38	41.0	39.8
BLL00482	BX40	43.0	41.8
BLL00483	BX41	44.0	42.8
BLL00138	BX42	45.0	43.8
BLL00484	BX43	46.0	44.8
BLL00485	BX44	47.0	45.8
BLL00486	BX45	48.0	46.8
B00190	BX46	49.0	47.8
BLL00487	BX47	50.0	48.8
B00189	BX48	51.0	49.8
BLL00488	BX49	51.0	50.8
B00188	BX50	53.0	51.8
B00328	BX51	54.0	52.8
B00187	BX52	55.0	53.8
B00474	BX53	56.0	54.8
B00207	BX54	57.0	55.8
B00169	BX55	58.0	56.8
B00167	BX56	59.0	57.8
BLL00400	BX57	60.0	58.8
BLL00332	BX58	61.0	59.8
B00192	BX59	62.0	60.8
B00195	BX60	63.0	61.8
B00227	BX61	64.0	62.8
B00194	BX62	65.0	63.8
B00208	BX63	66.0	64.8
B00193	BX64	67.0	65.8
B00201	BX65	68.0	66.8
B00329	BX66	69.0	67.8
B00200	BX67	70.0	68.8
B00237	BX68	71.0	69.8
B00330	BX70	73.0	71.8
B00209	BX71	74.0	72.8
BLL00489	BX72	75.0	73.8
BLL00490	BX73	76.0	74.8
BLL00491	BX74	77.0	75.8
B00229	BX75	78.0	76.8
BLL00492	BX76	79.0	77.8
B00217	BX77	80.0	78.8
B00218	BX78	81.0	79.8
B00331	BX79	82.0	80.8
B00160	BX80	83.0	81.8
B00332	BX81	84.0	82.8
B00499	BX82	85.0	83.8
B00204	BX83	86.0	84.8
BLL00493	BX84	87.0	85.8
B00158	BX85	88.0	86.8
BLL00494	BX86	89.0	87.8



**Belts By Browning**

**Gripnotch Belts**

**BX Belts**

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Outside Length	Pitch Length
BLL00495	BX87	90.0	88.8
BLL00496	BX88	91.0	89.8
BLL00497	BX89	92.0	90.8
B00206	BX90	93.0	91.8
BLL00498	BX91	94.0	92.8
BLL00499	BX92	95.0	93.8
B00162	BX93	96.0	94.8
BLL00500	BX94	97.0	95.8
B00176	BX95	98.0	96.8
B00212	BX96	99.0	97.8
B00174	BX97	100.0	98.8
BLL00501	BX98	101.0	99.8
B00468	BX99	102.0	100.8
BX00205	BX100	103.0	101.8
B00230	BX103	106.0	104.8
B00175	BX105	108.0	106.8
BLL00502	BX106	109.0	107.8
BLL00019	BX108	111.0	109.8
B00267	BX112	115.0	113.8
BLL00381	BX113	116.0	114.8
BLL00335	BX115	118.0	116.8
B00266	BX116	119.0	117.8
B00334	BX120	123.0	121.8
BLL00504	BX123	126.0	122.8
B00335	BX124	127.0	123.8
BLL00505	BX126	129.0	127.8
B00336	BX128	131.0	129.8
BLL00064	BX133	136.0	134.8
B00269	BX136	139.0	137.8
BLL00506	BX140	143.0	141.8
B00337	BX144	147.0	145.8
BLL00507	BX148	151.0	149.8
B00338	BX150	153.0	151.8
BLL00508	BX154	157.0	155.8
B00339	BX158	161.0	159.8
B00340	BX162	165.0	163.8
B00341	BX173	176.0	174.8
BLL00057	BX180	183.0	181.8
BLL00509	BX191	194.0	192.8
B00489	BX195	198.0	196.8
BLL00294	BX210	213.0	211.8
BLL00510	BX225	228.0	226.8
BLL00295	BX240	241.5	241.8
BLL0792	BX270	271.5	270.3

## Air Handling Components

### Belts By Browning

#### Gripnotch Belts

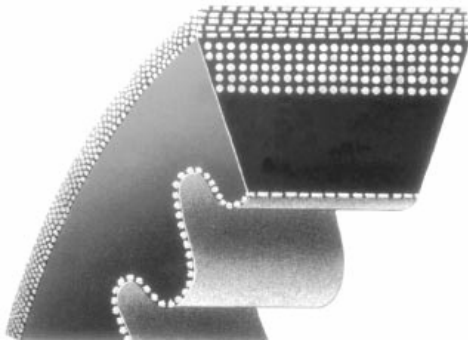
#### CX Belts

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Outside Length	Pitch Length
BLL00793	CX51	55.2	53.9
BLL00511	CX55	59.2	57.9
B00172	CX60	64.2	62.9
BLL00337	CX68	72.2	70.9
BLL00512	CX72	76.2	74.9
BLL00296	CX75	79.2	77.9
BLL00513	CX78	82.2	80.9
B00219	CX81	85.2	83.9
BLL00794	CX85	89.2	87.9
B00399	CX90	94.2	92.9
B00164	CX96	100.2	98.9
BLL00514	CX100	104.2	102.9
B00333	CX101	105.2	103.9
B00163	CX105	109.2	107.9
B00394	CX109	113.2	111.9
BLL00515	CX111	115.2	113.9
B00241	CX112	116.2	114.9
BLL00516	CX115	119.2	117.9
B00344	CX120	124.2	122.9
B00345	CX128	132.2	130.9
B00346	CX136	140.2	138.9
B00347	CX144	148.2	146.9
BLL00517	CX148	152.2	150.9
B00349	CX150	154.2	152.9
B00348	CX158	162.2	160.9
BLL00297	CX162	166.2	164.9
BLL00298	CX173	177.2	175.9
BLL00299	CX180	184.2	182.9
BLL00300	CX195	199.2	197.9
BLL00301	CX210	214.2	212.9
BLL00518	CX225	229.2	227.9
BLL00302	CX240	242.2	240.9
BLL00519	CX255	259.2	257.9
BLL00795	CX270	272.2	270.9
BLL00520	CX300	304.2	302.9
BLL00521	CX330	334.2	332.9
BLL00522	CX360	364.2	362.9

**Belts By Browning**

**“358” Gripbelts**

**3VX Belts**



SERVICEFIRST ITEM NO	VENDOR ITEM NO	Outside Length
BLL00202	3VX250	25.0
BLL00203	3VX265	26.5
BLL00204	3VX280	28.0
BLL00205	3VX300	30.0
BLL00206	3VX315	31.5
BLL00207	3VX335	33.5
BLL00208	3VX355	35.5
BLL00209	3VX375	4.0
BLL00210	3VX400	40.0
BLL00211	3VX425	42.5
BLL00212	3VX450	45.0
BLL00213	3VX475	47.5
BLL00214	3VX500	50.0
BLL00215	3VX530	53.0
BLL00216	3VX560	56.0
BLL00217	3VX600	60.0
BLL00218	3VX630	63.0
BLL00219	3VX670	67.0
BLL00220	3VX710	71.0
BLL00221	3VX750	75.0
BLL00222	3VX800	80.0
BLL00223	3VX850	85.0
BLL00224	3VX900	90.0
BLL00225	3VX950	95.0
BLL00226	3VX1000	100.0
BLL00227	3VX1060	106.0
BLL00228	3VX1120	112.0
BLL00389	3VX1180	118.0
BLL00229	3VX1250	125.0
BLL00230	3VX1320	132.0
BLL00231	3VX1400	140.0

**5V Belts**

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Outside Length
BLL00286	5V2120	212.0
BLL00349	5V2240	224.0
BLL00604	5V2360	236.0
BLL00797	5V2500	250.0
BLL00365	5V2650	265.0
BLL00385	5V2800	280.0
BLL00798	5V3000	300.0
BLL00799	5V3150	315.0
BLL00800	5V3350	335.0
BLL00801	5V3550	355.0

## Air Handling Components

### Belts By Browning

#### "358" Gripbelts

#### 5VX Belts

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Outside Length
BLL00232	5VX450	45.0
BLL00233	5VX470	47.0
BLL00234	5VX490	49.0
BLL00235	5VX500	50.0
BLL00236	5VX510	51.0
BLL00237	5VX530	53.0
BLL00238	5VX540	54.0
BLL00239	5VX550	55.0
B00476	5VX560	56.0
BLL00240	5VX570	57.0
BLL00241	5VX580	58.0
BLL00242	5VX590	59.0
B00465	5VX600	60.0
BLL00243	5VX610	61.0
B00466	5VX630	63.0
BLL00244	5VX650	65.0
BLL00245	5VX660	66.0
B00467	5VX670	67.0
BLL00246	5VX680	68.0
BLL00247	5VX690	69.0
B00509	5VX710	71.0
BLL00248	5VX730	73.0
BLL00249	5VX740	74.0
B00472	5VX750	75.0
BLL00250	5VX780	78.0
B00511	5VX800	80.0
BLL00251	5VX810	81.0
BLL00252	5VX830	83.0
BLL00253	5VX840	84.0
B00473	5VX850	85.0
BLL00254	5VX860	86.0
BLL00255	5VX880	88.0
B00469	5VX900	90.0
BLL00256	5VX930	93.0
B00486	5VX950	95.0
BLL00257	5VX960	96.0
B00471	5VX1000	100.0
BLL00258	5VX1030	103.0
B00470	5VX1060	106.0
BLL00259	5VX1080	108.0
B00458	5VX1120	112.0
BLL00260	5VX1150	115.0
BLL00261	5VX1180	118.0
BLL00262	5VX1230	123.0
B00457	5VX1250	125.0
B00498	5VX1320	132.0
BLL00263	5VX1400	140.0
BLL00264	5VX1500	150.0
BLL00265	5VX1600	160.0
BLL00266	5VX1700	170.0
BLL00267	5VX1800	180.0
BLL00268	5VX1900	190.0
B00382	5VX2000	200.0

**Belts By Browning**

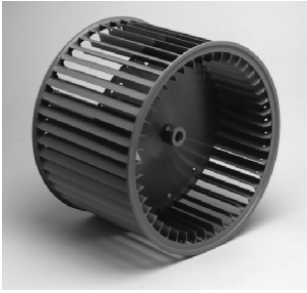
**“358” Gripbelts**

**8V Belts**

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Outside Length
BLL00802	8V1000	100.0
BLL00803	8V1120	112.0
BLL00804	8V1180	118.0
BLL00805	8V1250	125.0
BLL00806	8V1400	140.0
BLL00807	8V1500	150.0
BLL00808	8V1600	160.0
BLL00809	8V1700	170.0
BLL00810	8V1800	180.0
BLL00811	8V1900	190.0
BLL00812	8V2000	200.0
BLL00813	8V2120	212.0
BLL00814	8V2240	224.0
BLL00815	8V2360	236.0
BLL00816	8V2500	250.0
BLL00817	8V2650	265.0
BLL00818	8V2800	280.0
BLL00819	8V3000	300.0
BLL00820	8V3150	315.0
BLL00821	8V3350	335.0
BLL00822	8V3550	355.0
BLL00823	8V4000	400.0
BLL00824	8V4500	450.0

# Air Handling Components

## Blower Wheels



Belt drive fan wheels are made of steel. Direct drive fan wheels are made of steel, aluminum, or plastic.

SERVICEFIRST ITEM NO	SIZE	DIA	WIDTH	CENTER	ROTATION	MATERIAL	BORE
WHL00721	5 1/4" x 7"	5.33	6.94		CW	Noryl	0.5
WHL00722	5 3/4" x 9"	5.79	9.06		CW	Noryl	0.5
FAN00617	8" x 12"	8.063	12.156		CW	Aluminum	0.5
WHL00247	10" x 7"	11.125	7.125	Convex	CW	Steel	0.5
WHL00503	10" x 8"	10.625	8	Concave	CW	Steel	0.5
WHL00490	12" x 9"	12.625	9.5	Concave	CW	Steel	0.5
WHL00325	12" x 9"	12.25	9.5	Convex	CW	Steel	0.5
FAN00024	12" x 12"	12.625	12.625	Dual	Belt	Steel	1
FAN00662	15" x 9"	15	9.5	Dual	Belt	Steel	1
FAN00072	15" x 11"	15	11.125	Dual	Belt	Steel	1

## Fans

### Two-Blade Condenser Fans

Propeller fans. Bore: 0.50.

SERVICEFIRST ITEM NO	DIA	PITCH	ROTATION	HUB LOCATION	TYPE
FAN01505	14"	32°	CCW	Intake	AL
FAN01407	14"	36°	CW	Discharge	AL
FAN01523	14"	32°	CCW	Intake	GV

### Three-Blade Condenser Fans

Propeller fans. Bore: 0.50. Type: AL.



SERVICEFIRST ITEM NO	DIA	PITCH	ROTATION	HUB LOCATION
FAN01887	14"	19°	CCW	Intake
FAN01355	14"	26°	CCW	Intake
FAN01354	18"	29°	CCW	Intake
FAN01222	18"	32°	CW	Discharge
FAN01433	18"	34°	CCW	Intake
FAN01254	20"	20°	CW	Intake
FAN01251	20"	22°	CW	Discharge
FAN01252	20"	26°	CW	Discharge
FAN01358	22"	31°	CCW	Intake
FAN01214	22"	34°	CW	Discharge
FAN01849	24"	28°	CW	Intake
FAN01567	26"	28-32°	CW	Intake
FAN01403	26"	20°	CCW	Intake
FAN01405	26"	28°	CCW	Intake

### Four-Blade Condenser Fans

Propeller fans. Bore: 0.50, unless otherwise noted. Type: AL, unless otherwise noted.

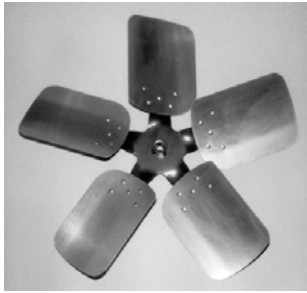


SERVICEFIRST ITEM NO	DIA	PITCH	ROTATION	HUB LOCATION
FAN01491	18"	34°	CW	Intake
FAN01209	18"	27°	CW	Intake
FAN01256	20"	28°	CW	Intake
FAN01257	20"	38°	CW	Intake
FAN01258	20"	39°	CW	Discharge
FAN01268	22"	30°	CW	Intake
FAN01025	22"	30°	CW	Discharge
FAN01494	22"	34°	CW	Intake
FAN01495	22"	34°	CW	Intake
FAN01260	22"	34°	CW	Discharge
FAN01262	24"	33°	CW	Intake
FAN01532	26"	28-32°	CW	Intake
FAN01514	26"	24°	CW	Discharge
FAN01516	26"	29°	CW	Discharge 0.62 bore ST type
FAN00628	28"	27°	CW	Discharge 0.62 bore HD type
FAN01892	28"	29°	CW	Intake
FAN01515	28"	29°	CW	Discharge

**Fans**

**Five-Blade Condenser Fans**

Propeller fans. Type: AL.



SERVICEFIRST ITEM NO	DIA	PITCH	ROTATION	HUB LOCATION	BORE
FAN01493	14"	38°	CCW	Discharge	0.5
FAN02841	18"	41°	CCW	Intake	0.5
FAN01263	24"	32°	CW	Intake	0.62
FAN01264	26"	26°	CW	Discharge	0.62
FAN01266	26"	28°	CW	Intake	0.62
FAN01265	26"	30°	CW	Discharge	0.62

**Sheaves**

**Single Groove Sheaves by Browning**

**1TB Sheaves**

Bushed; For A and B Belts. Sheaves do not include bushing.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	OUTSIDE DIA	DIA ABELTS	DATUM DIA BBELTS	BUSHING
SHE00490	1TB36	3.95	3.2	3.6	P1
SHE00491	1TB38	4.15	3.4	3.8	P1
SHE00495	1TB40	4.35	3.6	4	P1
SHE01054	1TB44	4.75	4	4.4	P1
SHE01055	1TB50	5.35	4.6	5	P1
SHE00845	1TB52	5.55	4.8	5.2	P1
SHE01058	1TB58	6.15	5.4	5.8	P1
SHE01430	1TB62	6.55	5.8	6.2	P1
SHE01431	1TB64	6.75	6	6.4	P1
SHE01059	1TB68	7.15	6.4	6.8	P1
SHE01056	1TB74	7.75	7	7.4	P1
SHE01432	1TB80	8.35	7.6	8	P1
SHE01060	1TB86	8.95	8.2	8.6	P1
SHE01057	1TB90	9.35	8.6	9	P1
SHE00526	1TB94	9.75	9	9.4	P1
SHE00533	1TB110	11.35	10.6	11	P1
SHE00538	1TB124	12.75	12	12.4	Q1
SHE00541	1TB136	13.95	13.2	13.6	Q1
SHE00929	1TB154	15.75	15	15.4	Q1
SHE01061	1TB160	16.35	15.6	16	Q1
SHE01062	1T1B84	18.75	18	18.4	Q1
SHE01034	1TB200	20.35	19.5	20	Q1
SHE00115	1TB250	25.35	24.5	25	Q1

**2AK Sheaves**

Finished Bore; For 4L or A Belts (3L as indicated)

SERVICEFIRST ITEM NO	VENDOR ITEM NO	OUTSIDE DIA	DATUM DIA A/4LBELTS	PITCH DIA 5L/BBELTS	BUSHING
SHE00110	2AK20	2	1.8	1.46	5/8"
SHE01148	2AK28	2.85	2.6	2.26	5/8"
SHE01149	2AK30	3.05	2.8	2.46	5/8"
SHE00915	2AK74	7.25	7	6.66	1"
SHE00324	2AK84	8.25	8	7.66	1-7/16"
SHE00789	2AK84	8.25	8	7.66	1"
SHE00378	2AK94	9.25	9	8.66	1-7/16"
SHE01131	2AK94	9.25	9	8.66	1-3/16"
SHE00316	2AK104	10.25	10	9.66	1-7/16"
SHE00564	2AK104	10.25	10	9.66	1-3/16"

# Air Handling Components

## Sheaves

### Single Groove Sheaves by Browning

#### AK Sheaves

*Finished Bore; For 4L or A Belts (3L as indicated)*

SERVICEFIRST ITEM NO	VENDOR ITEM NO	OUTSIDE DIA	DATUM DIA A/4L BELTS	PITCH DIA 3L BELTS	BORE SIZE
SHE00683	AK20	2	1.8	1.46	1/2"
SHE00109	AK20	2	1.8	1.46	5/8"
SHE00684	AK20	2	1.8	1.46	3/4"
SHE00111	AK21	2.1	1.9	1.56	1/2"
SHE00127	AK21	2.1	1.9	1.56	5/8"
SHE00685	AK23	2.3	2.1	1.76	1/2"
SHE00120	AK23	2.3	2.1	1.76	5/8"
SHE00686	AK23	2.5	2.3	1.76	3/4"
SHE01141	AK25	2.6	2.4	1.96	5/8"
SHE00341	AK26	2.6	2.4	2.06	1/2"
SHE00687	AK26	2.6	2.4	2.06	5/8"
SHE00688	AK26	2.7	2.4	2.06	3/4"
SHE01140	AK27	2.8	2.5	2.16	5/8"
SHE01134	AK28	2.8	2.6	2.26	1/2"
SHE01105	AK28	2.8	2.6	2.26	5/8"
SHE01305	AK28	3.05	2.6	2.26	3/4"
SHE01020	AK30	3.05	2.8	2.46	1/2"
SHE01042	AK30	3.25	2.8	2.46	5/8"
SHE01115	AK32	3.25	3	2.66	1/2"
SHE01104	AK32	3.25	3	2.66	5/8"
SHE00837	AK32	3.25	3	2.66	3/4"
SHE00811	AK32	3.45	3	2.66	7/8"
SHE01022	AK34	3.45	3.2	2.86	1/2"
SHE01023	AK34	3.45	3.2	2.86	5/8"
SHE01304	AK34	3.45	3.2	2.86	3/4"
SHE01033	AK34	3.75	3.2	2.86	7/8"
SHE01024	AK39	3.75	3.5	3.16	1/2"
SHE01025	AK39	3.75	3.5	3.16	5/8"
SHE01303	AK39	3.75	3.5	3.16	3/4"
SHE01028	AK39	3.75	3.5	3.16	7/8"
SHE00493	AK39	3.75	3.5	3.16	15/16"
SHE01109	AK41	3.95	3.5	3.36	5/8"
SHE01130	AK41	3.95	3.7	3.36	7/8"
SHE00166	AK41	3.95	3.7	3.36	15/16"
SHE01030	AK44	4.25	4	3.66	5/8"
SHE00499	AK44	4.25	4	3.66	15/16"
SHE01046	AK44	4.25	4	3.66	1-1/8"
SHE01045	AK46	4.25	4.2	3.86	5/8"
SHE01302	AK46	4.45	4.2	3.86	5/8"
SHE00500	AK46	4.45	4.2	3.86	15/16"
SHE01044	AK46	4.45	4.2	3.86	1-1/8"
SHE01108	AK49	4.75	4.5	4.16	5/8"
SHE00325	AK49	4.75	4.5	4.16	15/16"
SHE01107	AK51	4.95	4.7	4.36	5/8"
SHE00133	AK51	4.95	4.78	4.36	3/4"
SHE00503	AK54	5.25	5	4.66	15/16"
SHE00504	AK54	5.25	5	4.66	1-3/16"
SHE00505	AK56	5.45	5.2	4.86	15/16"
SHE01029	AK56	5.45	5.2	4.86	1"
SHE00506	AK56	5.45	5.2	4.86	1-3/16"
SHE01047	AK59	5.75	5.5	5.16	5/8"
SHE00509	AK59	5.75	5.5	5.16	15/16"
SHE01116	AK59	5.75	5.5	5.16	1"
SHE00734	AK61	5.95	5.7	5.36	5/8"
SHE00909	AK61	5.95	5.7	5.36	7/8"
SHE00510	AK61	5.95	5.7	5.36	15/16"
SHE01027	AK61	5.95	5.7	5.36	1"



**Sheaves**

**Single Groove Sheaves by Browning**

**AK Sheaves**

*Finished Bore; For 4L or A Belts (3L as indicated)*

SERVICEFIRST ITEM NO	VENDOR ITEM NO	OUTSIDE DIA	DATUM DIA A/4L BELTS	PITCH DIA 3L BELTS	BORE SIZE
SHE00157	AK64	6.25	6	5.66	15/16"
SHE01114	AK64	6.25	6	5.66	1"
SHE01036	AK66	6.45	6.2	5.86	7/8"
SHE01010	AK69	6.75	6.5	6.16	1"
SHE01031	AK71	6.95	6.7	6.36	1"
SHE00065	AK74	7.25	7	6.66	15/16"
SHE00981	AK74	7.25	7	6.66	1"
SHE00520	AK74	7.25	7	6.66	1-3/16"
SHE01009	AK79	7.25	7.5	7.16	1"
SHE00522	AK84	8.25	8	7.66	15/16"
SHE01021	AK84	8.25	8	7.66	1"
SHE00247	AK84	8.25	8	7.66	1-3/16"
SHE01019	AK89	8.75	8.5	8.16	1"
SHE00525	AK94	9.25	9	8.66	15/16"
SHE00246	AK94	9.25	9	8.66	1"
SHE00186	AK104	10.25	10	9.66	1"
SHE00154	AK104	10.25	10	9.66	1-3/16"
SHE00586	AK104	10.25	10	9.66	1-7/16"
SHE01011	AK114	11.25	11	10.66	5/8"
SHE01043	AK114	11.25	11	10.66	3/4"
SHE00090	AK114	11.25	11	10.66	1"
SHE00270	AK114	11.25	11	10.66	1-3/16"
SHE00534	AK114	11.25	11	10.66	1-7/16"
SHE00912	AK124	12.25	12	11.66	5/8"
SHE00126	AK124	12.25	12	11.66	1"
SHE00245	AK124	12.25	12	11.66	1-3/16"
SHE00537	AK124	12.25	12	11.66	1-7/16"
SHE00101	AK134	13.25	13	12.66	1-3/16"
SHE00088	AK144	14.25	14	13.66	1"
SHE00098	AK144	14.25	14	13.66	1-3/16"
SHE00542	AK144	14.25	14	13.66	1-7/16"
SHE00271	AK154	15.25	15	14.66	1"
SHE00102	AK154	15.25	15	14.66	1-3/16"
SHE00545	AK154	15.25	15	14.66	1-7/16"
SHE01147	AK184	18.25	18	17.66	1"
SHE00548	AK184	18.25	18	17.66	1-3/16"

# Air Handling Components

## Sheaves

### Single Groove Sheaves by Browning

#### AKH Sheaves

*Split Taper Bushing; For 4L or A Belts (3L as indicated)*

SERVICEFIRST ITEM NO	VENDOR ITEM NO	OUTSIDE DIA	DATUM DIA A/4L BELTS	PITCH DIA 3L BELTS	BUSHING
SHE00891	AK30H	3.05	2.8	2.46	H
SHE00488	AK34H	3.45	3.2	2.86	H
SHE01035	AK39H	3.75	3.5	3.16	H
SHE00496	AK41H	3.95	3.7	3.36	H
SHE00498	AK44H	4.25	4	3.66	H
SHE00870	AK46H	4.45	4.2	3.86	H
SHE00871	AK49H	4.75	4.5	4.16	H
SHE00107	AK51H	4.95	4.7	4.36	H
SHE00872	AK56H	5.45	5.2	4.86	H
SHE00873	AK59H	5.75	5.5	5.16	H
SHE00874	AK61H	5.95	5.7	5.36	H
SHE00875	AK64H	6.25	6	5.66	H
SHE00515	AK66H	6.45	6.2	5.86	H
SHE00517	AK69H	6.75	6.5	6.16	H
SHE00518	AK71H	6.95	6.7	6.36	H
SHE00876	AK74H	6.95	6.7	6.36	H
SHE00259	AK79H	7.75	7.5	7.16	H
SHE00877	AK84H	8.25	8	7.66	H
SHE00260	AK89H	8.75	8.5	8.16	H
SHE00878	AK94H	9.25	9	8.66	H
SHE00261	AK99H	9.75	9.5	9.16	H
SHE00879	AK104H	10.25	10	9.66	H
SHE00532	AK109H	10.75	10.5	10.16	H
SHE00535	AK114H	11.25	11	10.66	H
SHE00236	AK124H	12.25	12	11.66	H

#### AL Sheaves

*Finished Bore; For 4L or A Belts*

SERVICEFIRST ITEM NO	VENDOR ITEM NO	OUTSIDE DIA	PITCH	BORE SIZE
SHE01004	AL54	4.93	4.78°	5/8"
SHE00868	AL54	4.93	4.78°	3/4"
SHE00900	AL64	5.93	5.78°	5/8"
SHE00607	AL64	5.93	5.78°	3/4"
SHE00048	AL64	5.93	5.78°	1"
SHE00949	AL74	6.93	6.78°	3/4"
SHE00654	AL74	6.93	6.78°	1"
SHE00083	AL84	7.93	7.78°	3/4"
SHE00733	AL84	7.93	7.78°	1"
SHE00082	AL94	8.93	8.78°	3/4"
SHE00603	AL94	8.93	8.78°	1"
SHE00084	AL104	9.93	9.78°	3/4"
SHE00334	AL104	9.93	9.78°	1"
SHE01463	AL114	10.93	10.78°	3/4"
SHE00282	AL114	10.93	10.78°	1"
SHE01142	AL124	11.93	11.78°	1"

**Sheaves**

**Single Groove Sheaves by Browning**

**B5V Sheaves**

*Bushed; For A, B, and 5V Belts. Sheaves do not include bushing.*

SERVICEFIRST ITEM NO	VENDOR ITEM NO	OUTSIDE DIA	DATUM DIA ABELTS	DATUM DIA BBELTS	BUSHING
SHE01307	1B5V42	4.48	3.8	4.2	P1
SHE01308	1B5V44	4.68	4	4.4	P1
SHE01309	1B5V46	4.88	4.2	4.6	B
SHE01310	1B5V48	5.08	4.4	4.8	B
SHE01311	1B5V50	5.28	4.6	5	B
SHE01312	1B5V52	5.48	4.8	5.2	B
SHE01313	1B5V54	5.68	5	5.4	B
SHE01314	1B5V56	5.88	5.2	5.6	B
SHE01315	1B5V58	6.08	5.4	5.8	B
SHE01316	1B5V60	6.28	5.6	6	B
SHE01317	1B5V62	6.48	5.8	6.2	B
SHE01318	1B5V64	6.68	6	6.4	B
SHE01319	1B5V66	6.88	6.2	6.6	B
SHE01320	1B5V68	7.08	6.4	6.8	B
SHE01321	1B5V70	7.28	6.6	7	B
SHE01322	1B5V74	7.68	7	7.4	B
SHE01323	1B5V80	8.28	7.6	8	B
SHE01324	1B5V86	8.88	8.2	8.6	B
SHE01325	1B5V90	9.28	8.6	9	B
SHE01326	1B5V94	9.68	9	9.4	B
SHE01327	1B5V110	11.28	10.6	11	B
SHE01328	1B5V124	12.68	12	12.4	B
SHE01329	1B5V136	13.88	13.2	13.6	B
SHE01330	1B5V154	15.68	15	15.4	B
SHE01331	1B5V160	16.28	15.6	16	B
SHE01332	1B5V184	18.68	18	18.4	B
SHE01333	1B5V200	20.28	19.5	20	B
SHE01334	1B5V234	23.68	22.9	23.4	B
SHE01335	1B5V250	25.28	24.5	25	B
SHE01336	1B5V278	28.08	27.3	27.8	B

# Air Handling Components

## Sheaves

### Single Groove Sheaves by Browning

#### BK Sheaves

*Finished Bore; For 4L or A, 5L or B Belts*

SERVICEFIRST ITEM NO	VENDOR ITEM NO	OUTSIDE DIA	DATUM DIA A/4L BELTS	PITCH DIA 5L/B BELTS	BUSHING
SHE00108	BK24	2.4	1.8	2.2	1/2"
SHE01150	BK28	2.95	2.2	2.6	1/2"
SHE00058	BK36	3.75	3	3.4	1/2"
SHE00137	BK40	3.95	3.2	3.6	5/8"
SHE00855	BK45	4.25	3.5	3.9	3/4"
SHE00842	BK50	4.75	4	4.4	7/8"
SHE00092	BK52	4.95	4.2	4.6	1-1/8"
SHE00832	BK60	5.75	5	5.4	7/8"
SHE01439	BK60	5.75	5	5.4	1-3/16"
SHE01440	BK62	5.95	5.2	5.6	15/16"
SHE00849	BK67	6.45	5.7	6.1	15/16"
SHE01441	BK70	6.75	6	6.4	15/16"
SHE00806	BK70	6.75	6	6.4	1-7/16"
SHE00985	BK72	6.95	6.2	6.6	1"
SHE00003	BK80	7.75	7	7.4	15/16"
SHE01442	BK80	7.75	7	7.4	1-3/16"
SHE00619	BK80	7.75	7	7.4	1-7/16"
SHE00001	BK80	7.75	7	7.4	1-5/8"
SHE00009	BK85	8.25	7.5	7.9	1-5/8"
SHE01443	BK90	8.75	8	8.4	15/16"
SHE00524	BK90	8.75	8	8.4	1-7/16"
SHE01427	BK95	9.25	8.5	8.9	1"
SHE01163	BK100	9.75	9	9.4	1"
SHE00059	BK100	9.75	9	9.4	1-7/16"
SHE00975	BK105	10.25	9.5	9.9	1-7/16"
SHE00530	BK110	10.75	10	10.4	1-7/16"
SHE00976	BK115	11.25	10.5	10.9	7/16"
SHE00073	BK120	11.75	11	11.4	1-7/16"
SHE00066	BK130	12.75	12	12.4	1-7/16"
SHE00983	BK140	13.75	13	13.4	1"
SHE01428	BK140	13.75	13	13.4	1-3/16"
SHE00071	BK140	13.75	13	13.4	1-7/16"
SHE01444	BK160	15.75	15	15.4	1-3/16"
SHE00068	BK160	15.75	15	15.4	1-7/8"
SHE01007	BK190	18.75	18	18.4	1-3/16"
SHE00279	BK190	18.75	18	18.4	1-7/16"

**Sheaves**

**Single Groove Sheaves by Browning**

**BKH Sheaves**

*Split Taper Bushings; For 4L or A, 5L or B Belts*

SERVICEFIRST ITEM NO	VENDOR ITEM NO	OUTSIDE DIA	DATUM DIA A/4L BELTS	PITCH DIA 5L/B BELTS	BUSHING
SHE00689	BK30H	3.15	2.4	2.8	H
SHE00690	BK32H	3.35	2.6	3	H
SHE00691	BK34H	3.55	2.8	3.2	H
SHE00487	BK36H	3.75	3	3.4	H
SHE00692	BK40H	3.95	3.2	3.6	H
SHE00494	BK45H	4.25	3.5	3.9	H
SHE00497	BK47H	4.45	3.7	4.1	H
SHE00693	BK50H	4.75	4	4.4	H
SHE00161	BK52H	4.95	4.2	4.6	H
SHE00501	BK55H	5.25	4.5	4.9	H
SHE00694	BK57H	5.45	4.7	5.1	H
SHE00234	BK60H	5.75	5	5.4	H
SHE00235	BK62H	5.95	5.2	5.6	H
SHE00836	BK65H	6.25	5.5	5.9	H
SHE00511	BK67H	6.45	5.7	6.1	H
SHE00489	BK70H	6.75	6	6.4	H
SHE00516	BK72H	6.95	6.2	6.6	H
SHE00319	BK75H	7.25	6.5	6.9	H
SHE00519	BK77H	7.45	6.7	7.1	H
SHE00521	BK80H	7.75	7	7.4	H
SHE00264	BK85H	8.25	7.5	7.9	H
SHE00695	BK90H	8.75	8	8.4	H
SHE00263	BK95H	9.25	8.5	8.9	H
SHE00696	BK100H	9.75	9	9.4	H
SHE00251	BK105	10.25	9.5	9.9	H
SHE00531	BK110H	10.75	10	10.4	H
SHE00275	BK115H	11.25	10.5	10.9	H
SHE00697	BK120H	11.75	11	11.4	H
SHE00540	BK130H	12.75	12	12.4	H
SHE00148	BK140H	13.75	13	13.4	H
SHE00544	BK150H	14.75	14	14.4	H
SHE00147	BK160H	15.75	15	15.4	H
SHE00151	BK190H	18.75	18	18.4	H

**QD Sheaves**

*Bushed; For A and B Belts. Sheaves do not include bushing.*

SERVICEFIRST ITEM NO	VENDOR ITEM NO	OUTSIDE DIA	DATUM DIA ABELTS	DATUM DIA BBELTS	BUSHING
SHE00776	1B52DS	5.55	4.8	5.2	SDS
SHE00783	1B54DS	6.55	5.8	6.2	SDS
SHE00778	1B64DS	6.75	6	6.4	SDS
SHE00779	1B66DS	6.95	6.2	6.6	SDS
SHE00780	1B68DS	7.15	6.4	6.8	SDS
SHE00784	1B70DS	7.35	6.6	7	SDS
SHE00786	1B74DS	7.75	7	7.4	SDS
SHE00990	1B94DS	9.75	9.4	9	SDS
SHE00973	1B110DS	11.35	10.6	11	SDS
SHE00546	1B136SDS	13.95	13.2	13.6	SK
SHE00781	1B160SK	16.35	15.6	16	SK
SHE00550	1B184SK	18.75	18	18.4	SK
SHE00782	1B200SK	20.35	19.6	20	SK

# Chemicals

## HVAC Maintenance, Cleaners and Treatments

### Pan Treatment Technology by Trane



**Background**

All cooling units, whether they are air conditioners, dehumidifiers, or other refrigeration equipment, extract water from the air. Some undesirable consequences may result. These potential consequences may include overflow from clogged air conditioner drain pans due to the formation of slime. This can cause expensive damage to the ceiling and other property. Water in the drip pan supports the growth of fungus, mold, mildew, bacteria and other microorganisms. Contaminants found in drain pans can cause foul smelling odors. Retained water and bacterial growth in that moist environment can cause corrosion and premature failure of the drain.

**Dealing with Concerns**

The Trane Time-Release Pan Treatment addresses these concerns. The product may be used safely in air conditioners and refrigerator drain pans, dehumidifier water tanks, or any other nonpotable water retention area. EPA registered.

**Features and Benefits**

A solid-package strip releases the actives, leaving only the used polymer shell to be discarded. The system provides dependable, sustained time release protection for only pennies a day. The system adds a light, pleasant scent to the air as it works.

SERVICEFIRST ITEM NO	DESCRIPTION	PACKAGING	MIN/MULT
CHM00256	Up to 1 ton	10 per pkg; 12 pkg per case	12
CHM00257	1.5-2.5 ton	10 per pkg; 12 pkg per case	12
CHM00258	3-5 ton	6 per pkg; 24 pkg per case	24
CHM00259	7-10 ton	2 per pkg; 24 pkg per case	24
CHM00260	20 ton	1 per pkg; 24 pkg per case	24
CHM00264	40-50 ton	1 per pkg; 12 pkg per case	12

**Bulk Packages**

SERVICEFIRST ITEM NO	DESCRIPTION	PACKAGING	MIN/MULT
CHM00278	Up to 1 ton	50 per pkg; 20 pkg per case	20
CHM00279	1.5-2.5 ton	20 per pkg; 50 pkg per case	50
CHM00320	3-5 ton	20 per pkg; 25 pkg per case	25
CHM00321	7-10 ton	8 per pkg; 12 pkg per case	12
CHM00322	20 ton	8 per pkg; 12 pkg per case	12
CHM00323	40-50 ton	4 per pkg; 12 pkg per case	12

**Individual**

SERVICEFIRST ITEM NO	DESCRIPTION	PACKAGING	MIN/MULT
CHM00121	1 ton	2 per pkg; 30 pkg per case	30
CHM00122	1-2.5 ton	1 per pkg; 120 pkg per case	120
CHM00123	3-5 ton	1 per pkg; 144 pkg per case	144
CHM00124	7-10 ton	1 per pkg; 48 pkg per case	48

### Premium Grade Condenser Coil Cleaners by Trane

#### Nu-Clear Coil Cleaner Treatment



Outperforms acid products in the removal of contaminants found on air-conditioning coils and component parts. Special surfactants, tackifiers, and sequestering agents that penetrate and emulsify contamination, which is lifted from the surface with a foaming action for easy rinsing with water, contains no hazardous petroleum or chlorinated solvents, and are nonflammable.

SERVICEFIRST ITEM NO	DESCRIPTION
CHM00261	1 gal bottle
CHM00041	20 gal container
CHM00042	55 gal drum

#### Outdoor Coil, Non-Acid



Industrial-strength cleaner with no acid. Diluted with two parts water and sprayed between the fins with a low pressure sprayer. CHM00050 foams and pushes contamination outward from the condenser. This foam and contamination should then be thoroughly rinsed with water. Will effectively remove grease, exhaust residues and other contaminants.

SERVICEFIRST ITEM NO	DESCRIPTION
CHM00050	1 gal bottle

Chemicals

## HVAC Maintenance, Cleaners and Treatments

### Premium Grade Condenser Coil Cleaners by Trane

#### Outdoor Coil, Non-Acid Base



Non-acid nature removes grease, exhaust fumes, and other residue from condensers with an expanding foaming action. Spray and rinse to remove debris. Non-acid base increases user safety.

SERVICEFIRST ITEM NO	DESCRIPTION
CHM00246	1 qt bottle

### Premium Grade Evaporator Coil Cleaners by Trane

#### Indoor Coil Cleaner Base, Nontoxic



Nontoxic, self-rinsing concentrate effectively cleans dirty evaporator coils in one step while system is operating. Spray on air-inlet surface of coils and airflow causes complete coil penetration. No rinsing required. The cleaner drains as condensate, cleaning the condensate pan and drains as well. USDA approved.

SERVICEFIRST ITEM NO	DESCRIPTION
CHM00247	1 qt bottle

#### Indoor Coil Cleaner, Nontoxic

##### Premium Non-Rinse Evaporator Cleaner



Heavy-duty and economical liquid coil-cleaning concentrate containing a balanced blend of organic and inorganic ingredients together with sufficient alkalinity for fast cleaning as well as effective action against corrosion. No rinsing required.

SERVICEFIRST ITEM NO	DESCRIPTION
CHM00271	1 gal bottle

### Environmentally-Safe Coil Cleaner by Trane

#### Enviro-Coil Cleaner Treatment



Safely cleans both the evaporator and condenser coil without damage to equipment, personnel, or the environment. Contains no butyl ether, acid phosphates, petroleum solvents, potassium hydroxide, or sodium hydroxide. Enviro-Coil is biodegradable, non-combustible, and odorless.

SERVICEFIRST ITEM NO	DESCRIPTION
CHM00255	1 gal bottle
CHM00033	20 gal container
CHM00034	55 gal drum

### Coil Coatings And Anti-Foulants by Trane

#### Air-Cooled Condenser Protectant Aerosol



Specially formulated coating containing acrylic polymers and anti-corrosion agents designed to protect painted or unpainted surfaces from rust and corrosion. Seals and protects aluminum, copper, brass, bronze, chrome, galvanized metal, titanium, and stainless steel. Ideally suited for use on air-cooled condensers located in corrosive environments such as paper mills, chemical plants, airports, and salt air.

SERVICEFIRST ITEM NO	DESCRIPTION
CHM00275	16 oz aerosol

# Chemicals

## HVAC Maintenance, Cleaners and Treatments

### Coil Coatings And Anti-Foulants by Trane

#### Coil Pre-Clean for Use Prior to Anti-Foulant Treatment



Specially formulated for cleaning air conditioning coils and parts prior to application of anti-foulant coatings. Contains no harsh acids or alkalis and will leave no residue. Odorless and safe to use.

SERVICEFIRST ITEM NO	DESCRIPTION
CHM00274	1 gal bottle

#### Stay Kleen Cooling Coil Anti-Foulant



Safe, easy to use, water-based anti-foulant designed for use on cooling coils. Stay Kleen forms a microscopically thin coating that renders cooling surfaces self-cleaning for up to one year. Fungus or similar organisms will not grow on the Stay Kleen coil coat. Coils to be treated should be thoroughly cleaned. We recommend use of Pre-Clean, which is designed to have no harmful effect on the coating.

SERVICEFIRST ITEM NO	DESCRIPTION
CHM00272	1 qt bottle
CHM00273	1 gal bottle

### General Cleaners by Trane

#### Parts Cleaner



Concentrated heavy-duty, water-soluble solvent, specially formulated for cleaning permanent air cleaners, fan blades, blowers, air ducts, grills, and other miscellaneous parts. Nonflammable and safe to use.

SERVICEFIRST ITEM NO	DESCRIPTION
CHM00251	1 gal bottle

#### Ice Machine Cleaner



Safe to use on all types of ice machines. Drain machine and refill with fresh water. Add 6 to 8 ounces per gallon of circulating water and circulate for 30 minutes. Brush cleaning solution on surfaces not contacted by the solution during circulation. After scale is removed, drain and flush thoroughly with fresh water.

SERVICEFIRST ITEM NO	DESCRIPTION
CHM00244	8 oz bottle
CHM00253	1 gal bottle

### Leak Detectors by Trane

#### Leak Detectors



Convenient dauber attached to inside of cap makes application of leak-detecting fluid easy. Noncorrosive, nonstraining, high viscosity fluid detects any type of gas leak. Blue Leak Reactant is non-clogging and biodegradable in convenient spray.

SERVICEFIRST ITEM NO	DESCRIPTION
CHM00245	Leak Detector, 8 oz bottle
CHM00276	Spray-Type Blue Leak Detector, 1 qt spray
CHM00277	Spray-Type Blue Leak Detector, 1 gal bottle



**HVAC Maintenance, Cleaners and Treatments**

**Water Treatment by Trane**

**Microbiocide, Single Treatment**



Patented polymeric quarternary ammonium microbiocide effective in controlling algae, iron bacteria, and slime-forming microorganisms that contribute to biological fouling of cooling towers, heat exchangers, and other parts of recirculating water systems. Equally effective in both acid and alkaline environments.

SERVICEFIRST ITEM NO	DESCRIPTION
CHM00252	Microbiocide, 1 gal bottle

**Rust/Corrosion Inhibitor**

Prevents corrosion in recirculating water systems that are shut down for winter storage. Combination of surfactants and patented chemical that disperses readily in water.

SERVICEFIRST ITEM NO	DESCRIPTION
CHM00009	5 gal pail

**Scale Remover, Hydrochloric Base with pH Indicator**



Blend of hydrochloric acid and inhibitors with unique color system built in. Eliminates necessity of checking the activity of the solution with pH paper. If red, it's active; if yellow, add more scale remover. When the circulating solution remains red for 1 hour, all scale has been removed.

SERVICEFIRST ITEM NO	DESCRIPTION
CHM00250	1 gal bottle

**Scale Remover, Open Recirculating**



Safer replacement for fuming acids now in use. Made up of blend of food-grade acids, penetrating agents, and a special patented inhibitor. Will clean the entire waterside of the system including condensers, pipes, and cooling towers while system is in operation.

SERVICEFIRST ITEM NO	DESCRIPTION
CHM00249	1 gal bottle

**Premium HVAC Chemicals by Trane**



- High quality, effective degreasing solvent
- High flash point
- Controlled evaporation
- Pleasant citrus scent
- Safer alternative to chlorinated solvents and other solvents that are found on regulatory lists as causing cancer or probably causing cancer

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
CHM00512	CHM00512	TRANE DEGREASING SOLVENT, 1 GAL.



- Premium grade, alkaline condenser coil cleaner
- Powerful expanding foam action
- Superior brightening power
- Thorough rinsing with fresh water is required

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
CHM00519	CHM00519	BLACK MAX CONDENSER COIL CLEANER, PREMIUM GRADE ALKALINE, EXPANDING FOAM ACTION

# Chemicals

## Premium HVAC Chemicals by Trane



- Effectively insulates hot or cold pipes
- Stops condensation and drip
- Firmly adheres to all non-porous surfaces and to itself for multiple-wrap applications
- Will not shrink or dry out

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
TAP00048	TAP00048	CORK TAPE-1/8" X 2" 30' ROLLS

## HVAC Maintenance, Cleaners and Treatments

### Tape And Sealing Gums

#### Cork Insulation Tape

May be used on pipes and tubes with temperatures ranging from -20°F to +170°F (-29°C to +71°C). Stops pipe sweat and heat loss. Firmly sticks to all clean metal surfaces.

SERVICEFIRST ITEM NO	DESCRIPTION
TAP00025	1/8" x 2" 30-ft roll

#### Foam Insulation Tape

High quality insulation tape for pipes and tubes with temperatures ranging from -20°F to +160°F (-29°C to +71°C). Stops pipe sweat and heat loss. Firmly sticks to all clean metal surfaces.

SERVICEFIRST ITEM NO	DESCRIPTION
CHM00059	1/8" x 2" 30-ft roll

#### Sealing Compound

This compound is non-staining, non-bleeding and adheres firmly to most other clean surfaces. Flexible to -20°F (-29°C). Seals out dust, moisture, and other contaminants from seams and joints.

SERVICEFIRST ITEM NO	DESCRIPTION
CHM00058	3/8" x 25-ft. roll

## HVAC Chemicals by Hydro-Balance



- Wasp & Hornet Killer
- Super fast acting, kills on contact
- 20-foot stream provides a safe attack distance
- Dielectric strength over 47,000 volts

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
CHM00128	H-200	WASP SPRAY,SWAT 15 OZ. CAN



- Telltale bubbles indicate leaks
- High viscosity, clings to surfaces
- Dauber-type applicator is included in bottle

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
CHM00132	B-24	LEAK DETECTOR BUBBLE UP 8 OZ. BTLS



- Cleans Evaporator and Condenser coils
- Environmentally safe-cleans without acid or high alkaline materials
- Rinsing is not required on evaporator coils
- Will not etch or pit coils
- U.S.D.A. accepted

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
CHM00141	H-EC01	COIL CLEANER, ENVIRO COIL GAL

Chemicals

HVAC Chemicals by Hydro-Balance



- Non-acid, foaming, air-cooled condenser coil cleaner
- Expanding foam action unclogs coils and removes dirt and grime
- Excellent on greasy contamination
- Must be thoroughly rinsed with fresh water
- U.S.D.A. accepted

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
CHM00144	H-1101	COIL CLEANER, HYDRO KLEEN (NON ACID) GAL



- Self-rinsing evaporator coil cleaner
- Only attacks dirt build-up-not metal
- Safe, effective cleaning action
- U.S.D.A. accepted

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
CHM00145	H-401	COIL CLEANER, HYDRO COIL (EVAP CLEANER) GAL



- Pinpoints tiny leaks in pressurized gas systems
- Sprayable, tacky, blue liquid, clings to vertical surfaces and the underside of pipes
- Convenient spray for hard-to-reach areas
- Non-corrosive, non-clogging

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
CHM00149	SB-32	LEAK DETECTOR, BLUE (QT.)
CHM00150	SB-01	LEAK DETECTOR, BLUE (GAL.)



- Heavy-duty poly construction
- Viton® seals for maximum chemical resistance
- Built-in pressure relief valve and gauge
- Adjustable spray nozzle

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
CHM00151	H-SP01	SPRAYER 1 GAL
CHM00152	H-SP02	SPRAYER 2 GALLON



- Quick and easy drain maintenance for controlling overflows, odors, and water damage
- Dissolves completely
- No need to remove treatment container
- Make treatment part of every filter service

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
CHM00313	261	PAN-CLEAR CONDENSATE PAN TREATMENT, 100 TABS PER JAR



- Effective, powerful condenser coil cleaner
- Easy to use aerosol spray can
- No mixing, no sprayer, no mess
- Thorough rinsing with fresh water is required

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
CHM00542	ZC-01	ZIP FOAM EXPANDING FOAM ACTION CONDENSER CLEANER, 18 OZ. NET WT. AEROSOL



- Effective, safe evaporator coil cleaner
- Easy to use aerosol spray can
- No mixing, no sprayer, no mess
- No rinsing required

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
CHM00543	ZC-02	ZIP CLEAN SELF-RINSING EVAPORATOR CLEANER, 18 OZ. NET WT. AEROSOL



- Effectively insulates hot or cold pipes
- Stops condensation and drip
- Firmly adheres to all non-porous surfaces and to itself for multiple-wrap applications
- Will not shrink or dry out

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
TAP00047	H-2800	FOAM TAPE-ROLLS 1/8" X 2"

# Chemicals

## HVAC Maintenance, Cleaners and Treatments

### Neutronic Odor Neutralizer/Counteractant™



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	QTY
CHM00179	H-NT08	1/2 lb gel	18 per case
CHM00180	H-NT01	1 lb gel	12 per case
CHM00181	H-NT03	3 lb gel	4 per case

## Cleaners and Treatments by RectorSeal

### A/C Drain Pan Treatments

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Product Name	DESCRIPTION	Size
CHM00195	68104	Actabs™ JR.	EPA Registered	200 Tablets per bottle
CHM00192	68102	Actabs™ EE	For 1-5 Tons Systems EPA Registered	3 Tablet pouch

### Cleaners & Degreasers

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Product Name	DESCRIPTION	Size
CHM00458	82645	Zipp II™	Environmentally Safer, Quick Drying Degreaser	14 Oz. Aerosol

### Coil Cleaners & Brighteners

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Product Name	DESCRIPTION	Color	Size
CHM00202	83780	Clean - N - Safe™ Aerosol Coil Cleaner	Chemical; Clean-n-Safe Aerosol Coil Cleaner, 20 OZ CAN	Clear	20 Oz. Aerosol

### Evaporative Cooler Treatments

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Product Name	DESCRIPTION	Size
CHM00283	68114	Refresh™ Tablets	EPA Registered	4 Tablet tube

### Other Related Products

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Product Name	DESCRIPTION	Size
CHM00287	84390	Buz-Awf™	Wasp, hornet & bee killer EPA Registered	16 Oz. Aerosol

### Soot Removers & Burner Cleaners

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Product Name	DESCRIPTION	Size
CHM00484	68342	SootSpray™	Chemical; (12 EA/CASE)Rectorseal Sootspray, 14 OZ Aerosol	14 Oz. Aerosol

## Cleaners and Treatments by RectorSeal/Other related products

### Firestopping Products

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Product Name	DESCRIPTION	Color	Size
SLT00072	66302	Metacaulk® 1000	Water based caulk	Red	10.3 Oz. Cartridge

### Lubricants and Penetrants

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Product Name	DESCRIPTION	Size
LUB00051	73921	RectorSeal® Food Grade Silicone	Lubricant; (36 EA/CASE) Food Grade Silicoe, 12 OZ Aerosol	12 Oz. Aerosol

Cleaners and Treatments by RectorSeal/Other related products

Soldering Fluxes

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Product Name	DESCRIPTION	Color	Size
FLX00028	74025	C-Flux®	Pre-tinning 95/5 Flux	Gray	12 Oz.

HVAC Maintenance, Cleaners and Treatments

Cleaners And Treatments by Rectorseal

Acid Detector for POE Oils

Acid Detector for POE Oils is a test kit designed for use in the field to detect acid in Polyol Ester (POE) air conditioning and refrigeration oils. It quickly detects unacceptable amounts of acids in Polyol Ester type refrigeration oils without having to wait for a laboratory analysis.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
KIT06754	45006	Kit; detector, acid for POE oils

Acid-Away



Acid-Away is a unique patented chemical treatment for use in air conditioning and refrigeration systems that have experienced a burnout, or operating systems that are showing a buildup in acid content. It circulates quickly throughout the system and chemically neutralizes acids that are always left in an air conditioning or refrigeration system after a burnout occurs. Once neutralized, this acid can no longer continue its corrosive attack and cause another burnout. Acid-Away may be used in either hermetic or semi-hermetic compressors that operate with standard CFC or HCFC refrigerants using mineral oil and alkbenzene-type refrigeration oils. Acid-Away has been tested in accordance with ANSI/ASHRAE standard 86-1983 and 97-1989 along with various ASTM standards. Additionally, Acid-Away was extensively field tested in a wide variety of compressor sizes, types, and brands with a wide range of burnout conditions. U.S. Patent No. 5.503.757.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
CHM00280	45004	4 oz
CHM00167	45009	For POE oils, oz

Coil Cleaners and Brighteners

COIL-RITE



COIL-RITE is a self-rinsing cleaner and degreaser for evaporator and condenser coils, air conditioning and equipment, and electronic and permanent air filters. Lifts grime and oil from normally inaccessible places. Non-acid. Non-flammable.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
CHM00290	82612	Coil Cleanser, self-rinsing, 1 gal

FOAM-A-COIL



FOAM-A-COIL is a foaming, biodegradable cleaner and degreaser for evaporator and condenser coils, air conditioning, and air-handling equipment, and electronic and permanent air filters. Available in aerosol for window units, ice machines, and small refrigerated equipment. Adhering foam lifts grime and oil from normally inaccessible places. Non-acid. Non-flammable.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
CHM00291	82632	Coil Cleanser, foaming, biodegradable, 1 gal

RENEWZ



RENEWZ is a non-acid, high-foaming cleaner and brightener for air-cooled condenser coils. Leaves aluminum bright, shiny and clean in less than 5 minutes. Removes cooking grease. Heavy foaming action floats all loosened material out of inaccessible areas. Cleans electronic air filters too.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
CHM00289	82644	Condenser Coil Cleanser, foaming, 1 gal

# Chemicals

## HVAC Maintenance, Cleaners and Treatments

### Cleaners And Treatments by Rectorseal

#### Other Related Products

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
CHM00281	83554	Heat Absorption Compound, 11 oz

#### Rectorseal Epoxy Putty

**RECTORSEAL EPOXY PUTTY** is a premeasured, high-grade epoxy and hardener formulated together in one stick, making it easy to break off the amount needed for each repair. RectorSeal Epoxy Putty bonds to most surfaces and hardens in 15-20 minutes. It can then be sanded, painted, drilled, tapped, and/or machined.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
SLT00026	97600	Sealant, EP-200 Epoxy Putty, 2 oz

#### Smoke Sigl



**SMOKE SIGNAL** is a modern new smoke generator that finds air leaks in ducts, chimneys, boilers, and piping. Good for tracing airflow patterns. Good moisture resistance means longer-than-usual shelf life.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
CHM00084	65612	Smoke Generator, 10-1 min. testers

#### Rectorshield

#### Leak Locators



**RECTORSEEK MID TEMP** is a leak locator for use at normal temperatures on pipes or tanks that contain gases. It can be used on oxygen, or gas at temperatures between -35°F and 200°F.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
CHM00285	61434	Leak Detector, low temp (-35°F to 200°F), 16 oz

#### Lube-R-Coat

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
LUB00035	86533	Lube-R-Coat industrial grade, 12 oz. aerosol spray

## Solvents and Sealants

### Solvents And Sealants by Rectorseal

#### Duct Sealants

#### Air-Lock 181



**AIR-LOCK 181** is a non-flammable, non-toxic, safe-to-use water-based duct sealant. It is reinforced with fibers for superior gap sealing performance. This non-sag formula won't drip off, is easy to spread, and may be used inside and outside on low- to high-pressure systems. It is waterproof and resistant to ultraviolet light when cured. For use with UL181 Listed rigid fiberglass air ducts and UL181 listed nonmetallic flexible duct. Air-Lock 181 cures to a tough flexible film that will expand and contract with temperature changes. It may be used for sealing systems up to 25" W.G. It has an in-service range between -20°F and 400°F. Cleans easily while wet with soap and water. Color: White.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
SLT00080	81875	Sealant, duct, water-based, 1 gal
SLT00032	81872	Sealant, duct, water-based, 2 gal

**Solvents and Sealants**

**Solvents And Sealants by Rectorseal**

**Furce Cement**

*Pyroseal*



**PYROSEAL** is a smooth, creamy, easy-spreading furnace and retort cement that sticks where you put it. For high-temperature sealing and bonding. Shrink-proof, crack-proof. Use in combustion chambers and for sealing doors and flue pipes. Contains no asbestos or OSHA restricted fibers.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
SLT00073	68616	Pyroseal, 6 lb

**Pipe Thread Sealants**

*Rectorseal T Plus 2*



**RECTORSEAL T PLUS 2** pipe thread sealant is a nonsetting, multi-purpose compound that contains Teflon plus synthetic fibers to create a stronger seal. Recommended for use on threaded galvanized steel, iron, brass, copper, aluminum, stainless steel, polyethylene, fiberglass reinforced, PVC, CPVC, and ABS pipe. T Plus 2 may be pressurized immediately following application. Conforms to TT-S- 1732.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
SLT00067	23710	134 oz tube

*Rectorseal Tru-Blu*

**RECTORSEAL TRU-BLU** pipe thread sealant with Teflon is a fast-dry, flexible set thread sealant designed for high-vibration environments such as refrigeration and industrial applications. Teflon has been added to enhance thread lubrication during assembly and break out. Recommend for use on threaded galvanized steel, iron, brass, copper, aluminum, stainless steel, polyethylene, fiberglass reinforced, PVC, CPVC, and ABS pipe. Great for use as a positive lock and seal on threaded fasteners. Conforms to TT-S- 1732.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
SLT00069	31780	134 oz tube
SLT00070	31631	1/4 pt. brush top
SLT00071	31551	1/2 pt. brush top

**Solvent Cements**

*Gene 404 Solvent Cement*



*Sam CL Cleaner*



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
SLT00076	55011	1/4 pt.
SLT00077	55013	1/2 pt.
SLT00078	55015	1 pt.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
SOV00014	55723	Sam CL-2, 1/2 pt.

**Solvents and Sealants by RectorSeal**

**Cleaners & Primers**

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Product Name	DESCRIPTION	Color	Size
CHM00598	55727	Sam™ CL-3	Cleaners for PVC, CPVC, and ABS Plastic Pipe	Clear	Qt. (f)

# Chemicals

## Solvents and Sealants by RectorSeal

### Duct Sealants

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Product Name	DESCRIPTION	Color	Size
SLT00079	81873	Air-Lock® 181 Water Based Duct Sealant	Sealant; (24 EA/CASE) Duct, Water Based, 10.5 OZ Cartridge	White	10.5 Oz. Cartridge

### Firestopping Products

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Product Name	DESCRIPTION	Color	Size
SLT00119	66002	Metacaulk® 950	General purpose Inorganic Caulk	Cream	10.3 Oz. Cartridge

### Furce Cement & Chamber Sealers

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Product Name	DESCRIPTION	Size
SLT00121	68616	PyroSeal™ Non-Asbestos	Dual purpose retort & furnace cement	6 Lbs.

### Other Related Products

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Product Name	DESCRIPTION	Size
SLT00074	68202	Raincheck™	Seals & protects roofs & drains pans	Qt.

### Pipe Thread Sealants

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Product Name	DESCRIPTION	Color	Size
SLT00064	25790	RectorSeal® No. 5®	Multipurpose, Soft-set	Yellow	1 3/4 Oz.
SLT00068	23631	RectorSeal® T Plus 2®	Contains Teflon Plus Synthetic Fibers	White	1/4 Pt.
SLT00123	23551	RectorSeal® T Plus 2®	Contains Teflon Plus Synthetic Fibers	White	1/2 Pt.
TAP00045	35942	RectorSeal® PTFE Tape	In Display Carton (Each master carton contains 12 cases with 12 rolls per case)		1/2"X260"
SLT00047	25431*	RectorSeal® No. 5®	Multipurpose, Soft-set	Yellow	Pt.

### Solvent Cements

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Product Name	DESCRIPTION	Color	Size
CHM00594	55007	Pete™ 602	Medium Body Cement for PVC Plastic Pipe	Clear	Qt. (f)

## HVAC Maintenance Products by Loctite

### 243 Threadlocker Oil Resistant/Medium Strength



LOCTITE® 243™ is designed for the locking and sealing of threaded fasteners which require normal disassembly with standard hand tools. The product cures when confined in the absence of air between close fitting metal surfaces and prevents loosening and leakage from shock and vibration. Particularly suitable for applications on less active substrates such as stainless steel and plated surfaces, where disassembly with hand tools is required for servicing. The thixotropic nature of LOCTITE® 243™ reduces the migration of liquid product after application to the substrate. A general purpose, medium strength threadlocker with improved oil tolerance. For fasteners between 1/4" and 3/4" (6 to 20 mm) diameters.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
SEL00932	24077	Threadlocker 243 Removable, 10 ml Bottle



**HVAC Maintenance Products by Loctite**

**271™ Threadlocker High Strength**



LOCTITE® 271 is designed for the permanent locking and sealing of threaded fasteners. The product cures when confined in the absence of air between close fitting metal surfaces and prevents loosening and leakage from shock and vibration. Typical applications include the locking and sealing of large bolts and studs (M25 and larger). The thixotropic nature of LOCTITE® 271 reduces the migration of liquid product after application to the substrate. A high strength, low viscosity threadlocker for fasteners up to 1" (25 mm) diameter.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
SLT00045	27121	Threadlocker 271 High Strength, 10 ml Bottle
SLT00046	27131	Threadlocker 271 High Strength, 50 ml Bottle

**277 Threadlocker High Strength**



LOCTITE® 277 is designed for the permanent locking and sealing of threaded fasteners. The product cures when confined in the absence of air between close fitting metal surfaces and prevents loosening and leakage from shock and vibration. Typical applications include the locking and sealing of large bolts and studs (M25 and larger).

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
SLT00038	27731	Threadlocker 277 High Strength/Large Bolts, 50 ml Bottle

**290 Threadlocker Wicking Grade**



LOCTITE® 290 is designed for the locking and sealing of threaded fasteners. Because of its low viscosity and capillary action, the product wicks between engaged threads and eliminates the need to disassemble prior to application. The product cures when confined in the absence of air between close fitting metal surfaces and prevents loosening and leakage from shock and vibration. The product can also fill porosity in welds, casting and powder metal parts. A medium strength threadlocker for pre-assembled bolts up to 1/2" (12 mm). Penetrates threads by capillary action. Secures set screws and other assemblies after settings are completed. Seals welds and porous metal parts. Protects threads from rust and corrosion. Localized heating and hand tools are needed for disassembly.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
SEL00933	29021	Threadlocker 290 Wicking Grade, 10 ml Bottle

**294 Threadlocker High Temp, Wicking Grade**

LOCTITE® 294 is designed for the locking and sealing of threaded fasteners. Because of its low viscosity and capillary action, the product wicks between engaged threads and eliminates the need to disassemble prior to application. The product cures when confined in the absence of air between close fitting metal surfaces and prevents loosening and leakage from shock and vibration. The product also provides good threadlocker performance with oil coated fasteners. Ideally suited for pre-assembled fasteners. Performs well on oily fasteners.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
SEL00934	27935	Threadlocker 294 High Temperature/Wicking Grade

**404 Quick Set™ Instant Adhesive**



LOCTITE® 404 is designed for bonding of plastics and elastomeric materials where very fast fixturing is required. A general purpose instant adhesive for general maintenance and repair. Excellent for rubber bonding

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
ADH00031	46551	Quick Set 404 Industrial Adhesive, 1/3 Oz. Net Wt. Bottle

**510 Gasket Elimitor® High Temperature Flange Sealant**



LOCTITE® 510™ cures when confined in the absence of air between close fitting metal surfaces. This product is a general gasketing product suitable for hand dispensing or screen printing. Product has a temperature range to 400°F with excellent solvent and chemical resistance. Makes or dresses gaskets in rigid assemblies. Eliminates gasket compression set.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
SEL00936	51041	Flange Sealant 510 Gasket Eliminator High Temperature, 250 ml Tube

# Chemicals

## HVAC Maintenance Products by Loctite

### 565 PST® Thread Sealant Controlled Strength



LOCTITE® 565 is designed for the locking and sealing of metal pipes and fittings. The product cures when confined in the absence of air between close fitting metal surfaces and prevents loosening and leakage from shock and vibration. A general purpose instant sealant for tapered and straight/tapered fittings. Controlled strength for ease of disassembly.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
SLT00042	56507	Thread Sealant 565 PST Controlled Strength, 6 ml Tube

### 567 PST Thread Sealant High Temperature



LOCTITE® 567 is designed for the locking and sealing of metal tapered threads and fittings. The product cures when confined in the absence of air between close fitting metal surfaces and prevents loosening and leakage from shock and vibration. The high lubricating properties of this compound prevent galling on stainless steel, aluminum and all other metal pipe threads and fittings. LOCTITE® 567 is recommended for industrial applications in the chemical processing, petroleum refining, pulp/paper, waste treatment, textile, utilities/power generation, marine, automotive, industrial equipment, gas compression and distribution industries. It is also recommended for industrial plant fluid power systems.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
SEL00880	56747	Thread Sealant 567 PST High Temperature, 50 ml Tube

### Chisel® MC-FREE Gasket Remover



Free of Methylene Chloride, Chisel® MC-FREE Gasket Remover has a foaming action that lifts off gaskets from any type of assembly in minutes. Performs better than Methylene Chloride formulations on silicone gaskets and removes most spray paints from steel panels in less than 30 seconds. Convenient spray liquid penetrates and cleans intricate shapes and will not run off, even on vertical surfaces. Suitable for wood and plaster. Not for use on plastics, linoleum, or synthetic fibers.

#### PRODUCT FEATURES

Chisel® MC-Free Gasket Remover is a chemical liquid that works to remove pre-cut conventional gasket cements as well as formed-in-place chemical gaskets.

It is packaged in a convenient spray that penetrates and cleans intricate shapes and will not run off, even on vertical surfaces.

Chisel® MC-Free Gasket Remover is ideal for removing:

- Baked-on gaskets and gasket cements from any type of metal surface.
- Chemical formed-in-place gaskets, including RTV silicone and anaerobic materials.
- Gaskets from aluminum components without scraping or damaging machine surfaces.
- Gaskets from small to difficult-to-reach components.
- Built-up carbon deposits from interior engine/combustion surfaces.
- Baked-on grease and oil deposits (excellent pre-cleaner prior to solvent washing - keeps solvent baths cleaner, longer).
- Paint and varnish from wood surfaces (excellent for removing surface coating from delicate wood, carved surfaces without scraping or damaging surfaces).

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
CHM00210	34663	Chisel® MC-FREE Gasket Remover, 15.25 oz. Net wt. aerosol

### Flange Sealant 515 Gasket Elimitor®



LOCTITE® 515™ cures when confined in the absence of air between close fitting metal surfaces. It seals close fitting joints between rigid metal faces and flanges and will flex with minor flange movements. Provides resistance to low pressures immediately after assembly of flanges. Typically used as a form-in-place gasket for pumps, thermostats, compressors, transmission housings and axle covers.

#### TYPICAL APPLICATIONS

- Seals close fitting joints between rigid metal faces and flanges and will flex with minor flange movements.
- Provides resistance to low pressures immediately after assembly of flanges.
- Typically used as a form-in-place gaskets for pumps, thermostats, compr.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
SEL00922	51531	Flange Sealant 515 Gasket Eliminator, 50 ml Tube

## HVAC Maintenance Products by Loctite

### HVAC Blue Pipe Joint Compound



LOCTITE® H.V.A.C. Blue Pipe Joint Compound is a tough, pliable pipe joint compound formulated specifically for heating, air conditioning and refrigeration applications.

**PRODUCT FEATURES**

- Keeps joints tight in areas of high vibration and thermal expansion and contraction.
- Won't shred like Teflon® tape.
- Easily washes off hands with soap and water.
- Resists temperatures to 400°F (204°C).
- Allows immediate assembly and pressurization.
- Seals natural and LP gas, refrigerants, hot water, steam, heating oils and much more.
- Non-flammable.
- Joints can be disassembled months after application.

**TYPICAL APPLICATIONS**

- Sealing metal pipe threads and fittings including brass, copper, aluminum, iron and stainless steel.
- Gasket and flange sealing.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
SLT00062	82480	H.V.A.C. Blue Pipe Joint Compound, 0.25 Pt. Brush Can

### Loctite® Industrial Strength Hand Wipes

**PRODUCT BENEFITS**

- Abrasive yet non-scratching fabric aids in cleaning.
- Replaces the need for messy, ineffective rags and soap.
- 9½" X 12" towels available in 75, and 130 count canisters
- No rinsing, no drying, no residue

**TYPICAL APPLICATIONS**

- Agriculture
- Transportation
- Painting
- Industrial
- Printing
- Fleet Maintenance
- Recreation
- Marine
- Plumbing
- Maintenance
- Construction
- Manufacturing

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
TOL01533	34943	Loctite® Industrial Strength Hand Wipes, 75 count canister

### Loctite® QuickStix™ 534™ Hi-Tack Gasket Dressing



Loctite QuickStix 534 holds a precut gasket in place for positioning and assembly. It is ideal for sealing and bonding rubber, cork, paper, felt, and metal gaskets. This patented semi-solid formula offers added convenience and portability and will not spill or leak.

**FEATURES AND BENEFITS**

- Allows a precut gasket to be positioned holding it in place for assembly
- Holds aggressively yet still allows for repositioning of the cut gasket
- Seals up to 300 degrees F (149 degrees C)
- Offers added control and ease of use

**TYPICAL APPLICATIONS**

- Seals and bonds rubber, cork, paper, felt, and metal gaskets
- Ideal for use in applications requiring oil resistance

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
SEL00941	39156	Loctite QuickStix 534™ Hi-Tack Gasket Dressing - 9 gm Stick, Purple

# Chemicals

## HVAC Maintenance Products by Loctite

### ODC-Free Cleaner & Degreaser (Naphtha)



LOCTITE® ODC-Free Cleaner & Degreaser is a nonaqueous, hydrocarbon-based, non-CFC solvent designed for cleaning and degreasing of surfaces to be bonded with adhesives. It is an alternative to 1,1,1-trichloroethane (methyl chloroform) for general industrial cleaning. A non-aqueous, hydrocarbon-based solvent designed for cleaning and degreasing surfaces to be bonded with adhesives, as well as for general purpose industrial cleaning. Safe on aluminum, rubber, and most plastics, and will not cause flash rusting on water sensitive parts. Dries residue free. Contains no ozone-depleting compounds. (Formerly referenced as 7070.)

**TYPICAL APPLICATIONS**

Used as a final pre-assembly cleaning treatment to remove most greases, oils, lubrication fluids, metal cuttings and fines, for all surfaces to be bonded with adhesives. It is designed to be used as a spray or in immersion cleaning processes, at room temperature or heated.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
SOV00019	20260	ODC-Free Cleaner 7070 (Naphtha), 1 Gal. Can

### Primer T 7471 (Acetone)

LOCTITE 7471 is used where increased cure speed of Loctite anaerobic products is required. It is especially recommended for applications with passive metals or inert surfaces and with large bond gaps. LOCTITE® 7471 is particularly recommended when prevailing temperature is low (<15 °C).

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
CHM00208	22477	Primer T 7471 (Acetone), 4.5 Oz. Net Wt. Aerosol Can

### Silicone Lubricant



LOCTITE® Silicone Lubricant is a non-curing silicone paste that seals, lubricates, protects, waterproofs, and electrically insulates metal, rubber, and plastic parts. Use it as a moisture barrier for electrical contacts, a rubber and plastic lubricant, a mold release agent, and a packing lubricant for shafts and valve stems.

**ADVANTAGES:**

- Water and steam resistance
- High and low temperature stability
- Electrical resistance
- Lubricates rubber and plastic
- Mold release

**TYPICAL APPLICATIONS**

- Useful as a stopcock lubricant, plug or ball valve lubricant, valve stem packing lubricant, and protector for electrical contacts.
- Protects electrical connections against water infiltration, arcing, keeps moisture from forming a conductive film on electric mounts and insulators.
- Stops leaks.
- Makes rubber and plastic parts move easily.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
LUB00064	51360	Silicone Lubricant, 5.3 oz. Net Wt. Tube

### Thread Sealant 577 Coarse Threads



LOCTITE® 577 is designed for the locking and sealing of metal threaded pipes and fittings. Particularly suitable for use on stainless steel without the need for surface activation. The product cures when confined in the absence of air between close fitting metal surfaces and prevents loosening and leakage from shock and vibration. The thixotropic nature of LOCTITE® 577 reduces the migration of liquid product after application to the substrate.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
SLT00050	21456	Thread Sealant 577 Coarse Threads, 50 ml Tube

## Solvents and Sealants

### HVAC Maintenance Products by Loctite

#### 554 Thread Sealant Refrigerant Sealant

Excellent solvent resistance on threaded fittings and pipes up to 3" in diameter. Recommended for refrigeration systems and service with aggressive chemicals.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
SEL00528	25882	Seal, refrigerant, Thread Lock, 10 ml

Solvents and Sealants

HVAC Maintenance Products by Loctite

Anti-Seize Thread Compound



Lubricates hinges, gears, chains, cables, sprockets, levers, pivots, and rollers. Lubricates valve stems and prevents seizing and fretting of high-temperature assemblies. Based on a synthetic-grease formulation that will not evaporate or harden when exposed to extremes of heat or cold. Effectively lubricates assemblies exposed to high temperatures and heavy contact pressures. Eliminates galling of threaded fasteners, especially on aluminum and stainless steel.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
LUB00007	76732	Lubricant, Anti-Seize, 8 oz

Chisel Gasket Remover 790

A chemical liquid that lifts off baked-on gaskets, gasket cements, formed-in-place gaskets, carbon deposits, dried oil, grease, and paint from any type of metal. It is suitable for use on wood and plastics. Its foaming action removes material in minutes. Noncorrosive on aluminum.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
SOV00004	79040	Solvent, Gasket Remover, 18 oz aerosol

Electrical Contact and Parts Cleaner

Fast-evaporating cleaner removes grease, oil and other contaminants from electrical parts and mechanical equipment. Contains no CFCs or HCFCs and is safe on most plastics. Nonconductive, noncorrosive.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
SOV00034	25791	Solvent, contact cleaner, aerosol, 11 oz

Fast Orange Hand Cleaner

A biodegradable hand cleaner containing no petroleum solvents. It cleans hands with d-limonene, a solvent extracted from oranges. It is available as a pumice lotion and contains premium skin conditioners.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
CHM00196	25116	Solvent, cleaner, Fast Orange Hand, aerosol, 15 oz

Loctite 7070 OCD-Free Cleaner

A nonaqueous hydrocarbon-based solvent designed for cleaning and degreasing of surfaces to be bonded with adhesives. It effectively removes most greases, oils, lubrication fluids, and metal cuttings. It is compatible with most plastics.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
SOV00006	20132	Solvent, Safety 16 oz

Loctite Adhesive

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
ADH00023	40945	Adhesive; Loctite 409 superbond, gel, instant adhesive, 20 gram tube
ADH00024	40904	Adhesive; Loctite 409 superbond, gel, instant adhesive, 3 gram tube

Loctite Gasket Elimitor 515

515 Sealant-gel-like material. Cures at room temperature with no air contact. Fills imperfections, flexes with flange movement. Uses: gaskets for pumps, thermostats and compressors; as coating or dressing spacer gaskets. Repairs damaged conventional gaskets.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
SEL00376	51580	Seal, Gasket, Eliminator, 300 ml Cartridge

Loctite Removable Threadlocker 242

Anaerobic compound. Cures rapidly on most "as received" fasteners. General purpose, medium strength for use on fasteners 1/4" and larger. Hand tool removable.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
SEL00490	24221	Seal, Thread Lock, 10 ml

# Chemicals

## Solvents and Sealants

### HVAC Maintenance Products by Loctite

#### Loctite Stick Products

##### Anti-seize Lubricant

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
LUB00059	37230	Loctite silver anti-seize lubricant, 20 GM stick
LUB00058	37229	Loctite C5-A Copper anti-seize lubricant, 20 GM stick

##### Thread Sealant

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
SLT00114	37127	Loctite PST 561 thread sealant, 19 GM stick

##### Threadlocker

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
SLT00113	37686	Sealant, Loctite 268 high strength red threadlocker, 19 GM stick
SLT00111	37687	Sealant, Loctite 248 medium strength blue threadlocker, 19 GM stick
SLT00112	37685	Sealant, Loctite 268 high strength red threadlocker, 9 stick (10 ea per ctn)
SLT00110	37684	Sealant, Loctite 248 medium strength blue threadlocker, 9 GM stick

#### PST Pipe Sealant 565

Medium anaerobic sealant with Teflon, designed for tapered pipe threads. Designed for use on metal pipes only. High lubricating properties prevent galling. Provides immediate low-pressure sealing. Allows readjustment shortly after assembly, seals to pipe burst pressure in 48 hours. Medium solvent resistance, withstands temps to 300°F.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
SEL00488	56531	Seal, Pipe, 50 ml
CRD00078	35082	Loctite 55 Pipe Sealing Cord

#### Silicone Sealants

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
SLT00057	59575	Sealant; silicone clear, RTV 66C, 11 oz
SLT00048	32394	Sealant; (12 ea/case) red high temperature, silicone, 300ml cartridge

## HVAC Chemicals by Nu-Calgon

### Air-Cooled Equipment & Filter Cleaning



#### Evap Pow'r®

A revolutionary "no rinse" product formulated specifically for indoor cleaning of evaporator coils. It is metal safe and will not harm the metal of evaporator coils. Cleans and emulsifies even the most stubborn soils and deposits.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Size	DESCRIPTION
CHM00522	4168-08C	1 gallon bottle	Evap Pow'r-C



#### Green Clean

A pleasantly scented, all-purpose cleaner designed for the rapid removal of grease and other heavy soils. It can be used right out of the bottle or diluted for milder jobs. It instantly penetrates greasy and oily surfaces, providing powerful emulsifying ingredients that chemically soften and dissolve the deposits, making them easy to remove. The safer, effective, alternative to toxic cleaners, bleaches and solvents. It's non-corrosive and very economical to use.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Size	DESCRIPTION
CHM00524	4186-08C	1 gallon bottle	Green Clean

### HVAC Chemicals by Nu-Calgon

#### NO. 220CP Poly Sprayer 4771-3

- Durable polyethylene construction.
- Has funnel top for easy filling.
- The 2-1/2 gallon tank holds 2 gallons of solution which provides good capacity without being too big to handle
- Built-in air pump allows good working pressure to be obtained within moments.
- The spray nozzle gives a complete range of spray patterns.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
HDL00964	2CP04	Shut-off handle & hose.

#### Nu-Brite

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Product Name
CHM00589	4291-18	Aerosol Nu-Brite
CHM00632	4296-51	Aerosol Pan-Spray-Black

#### Pan Spray



Features

- NOW AVAILABLE IN BLACK AND WHITE.
- Quick and economical answer to repair troublesome leaks
- Dries in about 20-30 minutes
- Suitable for use on hot and cold surfaces (-10 to 250 degrees)
- Simple to use, just spray it on
- Can be applied in moist conditions
- Adheres to metal & most plastic surfaces
- Stays flexible and won't freeze or sag
- Long lasting protection
- Contains no CFC's

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
CHM00492	4296-50	Pan-Spray

#### Refrigeration and Air Conditioning Flushing Compound



DESCRIPTION

Based on new and patented HFC solvents developed by DuPont, Rx11 is ozone-safe, non-toxic, nonflammable and compatible with most materials in a refrigeration system. The cleaner itself has excellent solvency characteristics and it is packaged in a convenient pressurized container, sufficient to purge a moderately contaminated five to seven ton air conditioning or refrigeration system.

FEATURES AND BENEFITS

- Safe, nontoxic, and nonflammable
- Used the same way as R-11
- Low Boiling point enhances complete evaporation
- Cleaning is fast, efficient and verifiable
- Can be used for new system cleaning or retrofits
- Modern packaging minimizes solvent exposure to hands, eyes, and lungs
- The solvent is approved as part of the U.S. EPA's Significant New Alternatives Program (SNAP)

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Size	DESCRIPTION
CHM00510	4300-09	1 Pound	NEW!!! Rx11-flush 1 lb. canister

# Chemicals

## Solvents and Sealants

### HVAC Chemicals by Nu-Calgon

#### Aerosol Products by Nu-Calgon



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
ADH00028	4080-04	Adhesive, 11 oz aerosol can
ADH00030	4369-75	Adhesive, 12 oz. Spray
LUB00055	4084-03	Aerosol, Food Grade Silicone, 11 oz
CHM00406	4299-T8	Pump Protector, 10 oz aerosol
CHM00325	4082-03	Aerosol, Electrical Contact Cleaner, 11 oz
LUB00056	4085-83	Aerosol, Penetrating Lubricant, 12 oz
CHM00326	4086-03	Aerosol, V-belt Dressing, 16 oz
CHM00327	4087-03	Aerosol, Zinc Rich. Cold Galv., 16 oz
CHM00354	4171-75	Evap Foam-No Rinse® Evaporator Cleaner 18 oz aerosol can
CHM00392	4290-75	Nu-blast® High Pressure Coil Cleaner, 18 oz aerosol can
CHM00324	4081-75	CalClean®, 20 oz aerosol can
CHM00401	4297-75	Pipe-dri®, Aerosol Insulation, 18 oz
SOV00045	4083-75	Degreasing Solvent EF, 17 oz aerosol can

#### Closed System and Glycol Water Treatment by Nu-Calgon



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
CHM00429	7537-24	Ty-ion B20 Hot Water or Chiller Loop Corrosion Inhibitor, 1 qt package
CHM00428	7537-05	Ty-ion B20 Hot Water or Chiller Loop Corrosion Inhibitor, 5 gal pail
CHM00427	7519-05	Ty-ion® B14A Low Pressure Steam Boiler Treatment, 5 gal pail
DST00850	4742-0	Pressure Pot Feeder no. 44
PMP01625	T775-0	Silver King Pump
MTR00897	4816-0	Refractometer, C-7084 glycol tester
CHM00370	4188-07	Freez-kontr'l® Propylene Glycol Heat Transfer Fluid, 1 gal bottle
CHM00371	4188-05	Freez-kontr'l Propylene Glycol Heat Transfer Fluid, 5 gal pail
CHM00372	4188-01	Freez-kontr'l Propylene Glycol Heat Transfer Fluid, 55 gal drum
CHM00373	4189-07	Freez-therm™ Ethylene Glycol Heat Transfer Fluid, 1 gal bottle
CHM00374	4189-05	Freez-therm Ethylene Glycol Heat Transfer Fluid, 5 gal pail
CHM00375	4189-01	Freez-therm Ethylene Glycol Heat Transfer Fluid, 55 gal drum
CHM00442	4189-02	Freez-therm Ethylene Glycol Heat Transfer Fluid, 55 gal drum uninhibited
CHM00442	4187-05	Burst-Kontr'l heat transfer and anti-freeze fluid, 5 gal pail



Solvents and Sealants

HVAC Chemicals by Nu-Calgon

Coil and Filter Cleaning



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
CHM00393	4291-08	Nu-brite® Foaming Condenser Coil Cleaner, 1 gal bottle
CHM00394	4291-05	Nu-brite Foaming Condenser Coil Cleaner, 2½ gal pail
CHM00395	4291-01	Nu-brite Foaming Condenser Coil Cleaner, 55 gal drum
CHM00355	4178-08	Foam-brite® High Foaming Condenser Cleaner, 1 gal bottle
CHM00356	4178-05	Foam-brite High Foaming Condenser Cleaner, 2½ gal pail
CHM00357	4178-01	Foam-brite High Foaming Condenser Cleaner, 55 gal drum
CHM00332	4120-08	Alka-brite Low Foaming Condenser Coil Cleaner, 1 gal bottle
CHM00333	4120-05	Alka-brite Low Foaming Condenser Coil Cleaner, 2¾ gal pail
CHM00334	4120-01	Alka-brite Low Foaming Condenser Coil Cleaner, 55 gal drum
CHM00324	4081-75	CalClean®, 20 oz aerosol can
CHM00341	4135-08	CalClean® Multi-purpose Coil Cleaner, 1 gal bottle
CHM00342	4135-06	CalClean Multi-purpose Coil Cleaner, 2¾ gal pail
CHM00343	4135-01	CalClean Multi-purpose Coil Cleaner, 55 gal drum
CHM00344	4143-08	HD CalClean, Heavy-duty E.A.C. and Coil Cleaner, 1 gal bottle
CHM00345	4143-06	HD CalClean, Heavy-duty E.A.C. and Coil Cleaner, 2¾ gal pail
CHM00346	4143-01	HD CalClean, Heavy-duty E.A.C. and Coil Cleaner, 55 gal drum
CHM00448	4823-08	E.A.C. and coil cleaner, 1 gal bottle
CHM00347	4144-24	CalClean HD-RTU E.A.C. and Coil Cleaner, 1 qt spray bottle
CHM00337	4133-08	Cal-brite®, 1 gal bottle
CHM00440	4133-01	Cal-brite®, 55 gal drum
CHM00351	4168-08	Evap. Pow'r®-C No-rinse Evaporator Cleaner, 1 gal bottle
CHM00352	4168-05	Evap. Pow'r®-C No-rinse Evaporator Cleaner, 2½ gal pail
CHM00353	4169-24	Evap. Pow'r®-RTU No-rinse Evaporator Cleaner, 1 qt spray bottle
CHM00367	4186-24	Green Clean All-purpose Cleaner, 1 qt spray bottle
CHM00368	4186-08	Green Clean All-purpose Cleaner, 1 gal bottle
CHM00369	4186-05	Green Clean All-purpose Cleaner, 5 gal pail
CHM00426	4371-88	Tri-pow'r™ Economical Coil Cleaner, 1 gal bottle
CHM00443	4371-81	Tri-pow'r™ Economical Coil Cleaner, 55 gal drum

Coil Gun



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
CPL01035	PG14	Quick Coupler (Female)
DST00857	4774-0	Coil Gun-hose End Sprayer, 2 quart working capacity
VAL08028	PG01	Piston Grip Shut-Off (includes Anti-Siphon Unit & Filter Washer)
TOL02143	PG09A	Foam Wand

Sprayers by Nu-Calgon



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
DST00851	4768-W3	Sprayer, 24oz working capacity, multipurpose hand
DST00853	4770-2	Sprayer, Cal-shield, 1 gallon working capacity
DST00852	4770-0	Sprayer, no. 50P poly, 3 pint working capacity
DST00854	4771-2	Sprayer, no. 200P water pressure, 2 gallon working capacity
DST00855	4771-3	Sprayer, no. .220CP, 2 gallon working capacity
DST00856	4772-0	Sprayer, no. 300P, 3 gallon working capacity

Coil Protection by Nu-Calgon



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
CHM00348	4148-32	Cal-shield® Coil Protectant with Teflon, 1 qt spray bottle
CHM00349	4148-08	Cal-shield Coil Protectant with Teflon, 1 gal
CHM00441	4148-01	Cal-shield Coil Protectant with Teflon, 55 gal drum

# Chemicals

## Solvents and Sealants

### HVAC Chemicals by Nu-Calgon

#### Condensate Pan Treatment

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
CHM00464	4295-34	Panpad "5" size
CHM00465	4296-24	Panpad "15" size
CHM00466	4296-45	Panpad "45" size
CHM00469	4292-75	Condensate tablets

#### Cooling Tower Water Treatment by Nu-Calgon



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
CHM00422	4364-88	Scale Remover, Season Treat, 5 lb.
CHM00389	4275-84	Micromet plates, 50 lb pail
CHM00385	4243-97	Micromet® Crystal, 5 lb container
CHM00386	4243-84	Micromet Crystals, 50 lb pail
CHM00417	4340-08	Scale Inhibitor, no. 340 liquid, 1 gal bottle
CHM00418	4340-05	Scale Inhibitor, no. 340 liquid, 5 gal pail
CHM00419	4340-01	Scale Inhibitor, no. 340 liquid, 55 gal. drum
CHM00430	7597-05	Ty-ion C70, Complete Cooling Tower Treatment, 5 gal pail
CHM00431	7597-P3	Ty-ion C70, Complete Cooling Tower Treatment, 15 gal pail
BRK03277	4606-0	Bracket Holder, C-284-1, 1 gal jug
BRK03278	4607-0	Bracket Holder, C-284-5, 5 gal jug
MON00016	4608-4	CMS IV Cooling Monitor System w/pump
PMP01623	4609-1	CMS Chemical Feed Pump
CHM00350	4149-05	Cal-treat® 233 Corrosion Inhibitor, 5 gal pail
TMR00212	C-1100	C-1100 Percentage Timer 1
CHM00330	4109-M5	Algaecide, no. 90, 4 lb jar
CHM00331	4109-M9	Algaecide, no. 90, 50 lb pail
CHM00328	4108-08	Algaecide, no. 85, 1 gal bottle
CHM00329	4108-P3	Algaecide, no. 85, 15 gal pail

#### Feeding Equipment by Nu-Calgon



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
DST00846	4669-W3	No. 215 Drip Feeder
DST00847	4670-W3	No. 1075 Drip Feeder
TNK00873	4628-0	No. 20L Micromet Feeder
TNK00874	4650-0	No. 100L Micromet Feeder
DST00848	4673-W3	Feeding Bags Micromet Plate
DST00849	4695-0	Floater, no. 90 Algaecide

#### IAQ Products by Nu-Calgon



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
CHM00351	4168-08	Evap. Pow'r®-C No-rinse Evaporator Cleaner, 1 gal bottle
CHM00352	4168-05	Evap. Pow'r-C noNo-rinse Evaporator Cleaner, 2½ gal pail
CHM00353	4169-24	Evap. Pow'r-RTU No-rinse Evaporator Cleaner, 1 qt spray bottle
CHM00426	4371-88	Tri-pow'r™ Economical Coil Cleaner, 1 gal bottle
CHM00443	4371-81	Tri-pow'r™ Economical Coil Cleaner, 55 gal drum
CHM00335	4126-34	Bio-fresh® CD, EPA-registered HVAC Sanitizer, 1 qt spray bottle
CHM00336	4126-38	Bio-fresh CD, EPA-registered HVAC Sanitizer, 1 gal bottle
CHM00398	4294-40	Odor-free deodorant towels, 40 bucket
CHM00399	4294-70	Odor-free deodorant towels, 70 bucket
CHM00400	4294-99	Odor-free towel cage, each

Solvents and Sealants

HVAC Chemicals by Nu-Calgon

Ice Machine Cleaning and Filtration by Nu-Calgon



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
CHM00377	4207-47	Ice Machine Cleaner, 13.2 net, 8 fl oz bottle
CHM00378	4207-08	Ice Machine Cleaner, 1 gal bottle
CHM00390	4287-34	Nickel Safe Ice Machine Cleaner, 16 fl oz bottle
CHM00391	4287-08	Nickel Safe Ice Machine Cleaner, 1 gal bottle
CHM00379	4211-34	IMS-II Sanitizer for ice machines, 16 oz bottle
CHM00387	4265-20	Micromet Crystals 6r, 8 oz packets
CHM00388	4265-84	Micromet Crystals 6r, 50 lb pail
FLR05245	4705-87	NP246R Micromet Cartridge
FLR05254	4715-87	NP486R Micromet Cartridge
CHM00436	4615-W3	Micro-plus 2, In-line Filter, Scale, Taste, Sediment
CHM00433	4612-W3	Micro-plus® 4, In-line Filter, Scale, Taste, Sediment
CHM00434	4613-Y8	Micro-plus 8, In-line Filter, Scale, Taste, Sediment
CHM00435	4614-Y8	Micro-plus 16, In-line Filter, Scale, Taste, Sediment
BRK03279	4619-0	Micro-plus Bracket
FTG00976	4619-22	Micro-plus Quick Connect Kit, MPQC
HUS03684	4704-24	NP24DD Housing
HUS03685	4714-24	NP48DD Housing
HUS03686	4714-26	NP48DD Valve in Head Housing
TOL01980	4624-0	No. 4 Micromet Feeder
FLR05245	4705-87	NP246R Micromet Cartridge
FLR05254	4715-87	NP486R Micromet Cartridge
FLR05241	4701-87	NP24C Carbon Cartridges
FLR05248	4711-87	NP48C Carbon Cartridges
FLR05243	4702-87	NP24S Sediment Cartridges
FLR05252	4712-87	NP48S Sediment Cartridges
FLR05250	4712-10	Sediment Cartridge, 5 micron bulk
FLR05251	4712-20	Sediment Cartridge, 5 micron bulk
FLR05246	4706-87	NP24PC Micromet/Carbon Cartridges
FLR05255	4716-87	NP48PC Micromet/Carbon Cartridges
FLR05247	4707-87	NP24PS Phosphate/Sediment Cartridges
FLR05256	4717-87	NP48PS Phosphate/Sediment Cartridges
FLR05242	4701-89	NP24GC Granulated Carbon Cartridges
FLR05249	4711-89	NP48GC Granulated Carbon Cartridges
FLR05244	4704-30	PC600 Filtration Package
FLR05253	4714-30	PC1200 Filtration Package
FLR05235	4617-24	Micro-carbon 4 Filter, In-line Taste and Odor
CHM00437	4721-04	UV Ozonator (OZG10)
CHM00438	4721-12	UV Ozonator (OZG12)
FLR05236	4620-01	Nu-plus® CF Everpure Replacement Cartridge for high sediment waters
FLR05237	4620-02	Nu-plus SC Everpure Insurvice or MH Replacement Cartridge
FLR05238	4620-04	Nu-plus to Everpure MC Replacement Cartridge
FLR05239	4620-06	Nu-plus HZC Hoshizaki HC Replacement Cartridge
FLR05240	4620-07	Nu-plus HZF Hoshizaki HF Replacement Cartridge
FLR05229	4610-20	CTL05 Prefilter and Cartridge, Tri-liminator Replacement
FLR05230	4610-21	CTL10 Single 20" Housing, Tri-liminator Replacement
FLR05231	4610-22	CTL15 Single 20" Housing and Prefit, Tri-liminator Replacement
FLR05232	4610-23	CTL20 Twin 20" Housings, Tri-liminator Replacement
FLR05233	4610-24	CTL25 Twin 20" Housings and Prefit, Tri-liminator Replacement
FLR05234	4610-26	C0070 Primary Cartridge, Tri-liminator Replacement

# Chemicals

## Solvents and Sealants

### HVAC Chemicals by Nu-Calgon

#### Insulation Products by Nu-Calgon



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
CHM00383	4217-W3	Insulation Tape, cork, 2" x 1/8" x 30'
CHM00396	4293-04	Nu-foam Expanding Sealant, 9 oz can
CHM00397	4293-75	Nu-foam Expanding Sealant, 20 oz can
TAP00098	4218-12	Insulation Tape, Presst-O-Cel Foam, 2" x 1/8" x 30' roll
CHM00382	4216-92	Insulation Slugs, 2 lb box
CHM00380	4216-27	Insulation Cords, 3/8", 3/8" x 25' roll
CHM00381	4216-28	Insulation Cords, 3/16", 3/16" x 100' roll
TAP00102	4218-W3	Tape, 2" x 1/8" x 30' roll
TAP00099	4219-12	Insulation Foam Tape, 2" x 1/8" x 30' roll

#### Lubricant Products by Nu-Calgon



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
CHM00414	4320-W8	Refrigeration Oil Acid Test Kit Phase® III, each
MTR00896	4815-0	Refractometer, C-1520 Oil
PMP01624	4814-0	Canverter® Oil Pump
CHM00413	4301-02	Rx-Acid Scavenger

#### Refrigeration Oils by Nu-Calgon



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
OIL00108	4303-07	C-3 (150 viscosity MO), 1 gal
OIL00109	4303-05	C-3, (150 viscosity MO), 5 gal
OIL00110	4303-01	C-3, (150 viscosity MO), 55 gal
OIL00111	4304-07	C-4, (300 viscosity MO) 1 gal
OIL00112	4304-05	C-4, (300 viscosity MO) 5 gal
OIL00113	4304-01	C-4, (300 viscosity MO) 55 gal
OIL00114	4305-07	C-5, (500 viscosity MO) 1 gal
OIL00115	4305-01	C-5, (500 viscosity MO) 55 gal
OIL00116	4308-07	Zerol 200TD Copeland-approved AB, 1 gal
OIL00117	4308-05	Zerol 200TD Copeland-approved AB, 5 gal
OIL00118	4308-01	Zerol 200TD Copeland-approved AB, 55 gal
OIL00119	4310-07	Zerol 150 (150 viscosity ab) 1 gal
OIL00120	4310-05	Zerol 150 (150 viscosity ab) 5 gal
OIL00121	4310-01	Zerol 150 (150 viscosity ab) 55 gal
OIL00122	4311-07	Zerol 300 (300 viscosity AB) 1 gal
OIL00123	4311-05	Zerol 300 (300 viscosity AB) 5 gal
OIL00124	4311-01	Zerol 300 (300 viscosity AB) 55 gal
OIL00125	4311-65	Zerol 400 CA (400 viscosity) Carrier-approved AB, 5 gal
OIL00126	4312-05	Zerol 500 (500 viscosity AB) 5 gal
OIL00129	4314-05	Castrol, SW32, 5 gal
OIL00134	4316-15	Castrol, E68, 5 gal
OIL00135	4317-06	Castrol, SW100, 1 gal
OIL00136	4317-05	Castrol, E100, 5 gal
OIL00140	4316-24	Castrol, SW68, 1 quart
OIL00143	4316-16	Castrol, CASTROL E68, 1 gal

Solvents and Sealants

HVAC Chemicals by Nu-Calgon

Scale Removal/Descaling by Nu-Calgon

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
CHM00415	4330-08	Scale Dissolver, liquid, 1 gal bottle
CHM00416	4330-05	Scale Dissolver, liquid, 5 gal pail
CHM00421	4360-88	Scale Remover, season start, 10 lb container
CHM00420	4360-84	Scale Remover, imperial grade, 50 lb pail
CHM00338	4134-24	Calci-solve® Scale and Rust Remover, 1 gal
CHM00339	4134-08	Calci-solve Scale and Rust Remover, 1 gal
CHM00340	4134-01	Calci-solve Scale and Rust Remover, 55 gal drum
PMP01622	4603-0	Acid Pump, no. 31TX
KIT08258	4604-0	Acid Pump hose kit no., HK-31

Specialty Products by Nu-Calgon



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
CHM00463	4292-75	Nu-Kill II wasp and hornet killer, 14 oz. Aerosol
CHM00376	4194-16	Hand Cleaner, Nu-klan® II, 16 oz tube
CHM00360	4182-53	Gas Leak Detector, Cal-blue®, 6 oz bottle w/dauber
CHM00361	4182-24	Gas Leak Detector, Cal-blue, 1 qt spray bottle
CHM00362	4182-08	Gas Leak Detector, Cal-blue, 1 gal bottle
CHM00363	4183-24	Gas Leak Detector, Cal-blue lt, 1 qt spray bottle
CHM00364	4183-08	Gas Leak Detector, Cal-blue lt, 1 gal bottle
CHM00358	4180-53	Gas Leak Detector, 6 oz bottle w/dauber
CHM00359	4180-08	Gas Leak Detector, 1 gal bottle
CHM00365	4184-24	Gas Leak Detector, Fluorescent, 1 qt spray bottle
CHM00366	4184-08	Gas Leak Detector, Fluorescent, 1 gal bottle
CHM00407	4299-10	Quick-seal™ Pipe Repair, 2" x 3'
CHM00408	4299-11	Quick-seal Pipe Repair, 4" x 12'
CHM00423	4366-24	Scrubs®-In-A-Bucket, 36-count canister
CHM00424	4366-87	Scrubs-In-A-Bucket, 72-count canister
CHM00384	4230-72	Kleen-N-Toss™, 72-count canister
SOV00046	4162-07	Degreasing Solvent EF, 1 gal
CHM00425	4371-36	Thermo-trap® Heat Absorbing Paste, 10 oz tube
CHM00432	4388-82	Weltone®, Well-Cleaning Compound, 100 lb keg

System Clean Up

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
CHM00470	4370-08	Nu-Calgon system cleaner, 5 gal pail

System Flushing by Nu-Calgon



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
CHM00402	4298-02	Pneu-flush® Pneumatic Cleaning Solvent, each
CHM00405	4298-88	Pneu-flush Access Valve, each
CHM00403	4298-04	Pneu-flush Pneumatic Cleaning Solvent, 1 gal
CHM00404	4298-05	Pneu-flush Pneumatic Cleaning Solvent, 2½ gal
CHM00410	4300-11	Rx11 Flush, AC/R Flush, each
CHM00409	4300-10	Rx11 Flush® "2-in-1" display pack, AC/R Flush, each
CHM00411	4300-15	Rx11 Flush, AC/R Flush, each
CHM00412	4300-99	Rx11 Flush Injection Tool, each

Vacuum Pump Oil by Nu-Calgon



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
OIL00137	4383-34	Vacuum Pump Oil, 1 pint bottle
OIL00138	4383-24	Vacuum Pump Oil, 1 qt bottle
OIL00139	4383-07	Vacuum Pump Oil, 1 gal bottle

# Chemicals

## Solvents and Sealants

### HVAC Chemicals by Nu-Calgon

#### Water Test Kits by Nu-Calgon



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
KIT08268	4784-0	Chloride (K1598)
KIT08259	4785-0	Chlorine (K9047)
KIT08260	4790-0	Hydrogen Sulfide (K0076)
KIT08262	4798-2	No. 89A (K5835) for cooling water
MTR00895	4812-0	Conductivity Meter
KIT08261	4797-0	Nitrite (W003-0)
KIT08264	W017-0	Complete Taylor, for cooling and boiler water
KIT08263	4804-0	Organic Phosphorous
KIT08265	Y141-0	Bacteria (10 tests per kit)
CHM00439	4775-0	Alkalinity (K1527)

### HVAC Chemicals by Nu-Calgon

#### Refrigeration Oils & Vacuum Pump Oil

##### Zerol Ice



Zerol Ice is a revolutionary advancement in lubrication technology. When introduced to an air conditioning, refrigeration system, it enhances the lubricity of the oil... Mineral, Alkylbenzene and POE... ultimately reducing friction drag in the compressor. And because of the reduced drag, energy consumption as shown in testing is reduced and equipment service life is increased. The product also enhances the hydrodynamic of fluid properties of the oil. This helps lubricity as well, but it also results in small gains in heat transfer or cooling performance in the evaporator. Zerol Ice is packaged into a pressurized container that is designed for use on R-22 systems. One can treats up to a 5 ton system, and larger R-22 system (i.e. packaged units) can be easily treated using one can for every 5 tons.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
CHM00513	4312-50	Zerol Ice
CHM00514	4312-52	Zerol Ice - 2 pack

## Oils

### Mineral Refrigeration Oil by Trane

#### Refrigeration Oil



ServiceFirst OIL00057 and OIL00044 mineral refrigeration oils are manufactured by Calumet Refining Co. and are of the highest quality and purity available. They are packaged in gallon bottles with a convenient view strip for easily determining content levels.

SERVICEFIRST ITEM NO	DESCRIPTION
OIL00057	Refrigeration Oil, 150 viscosity, 1 gal bottle
OIL00058	Refrigeration Oil, 300 viscosity, 1 gal bottle

#### OEM Refrigeration Oils

SERVICEFIRST ITEM NO	DESCRIPTION
OIL00015	OEM, Formula, 300 SUS, 1 gal container
OIL00022	OEM, Centrifugal white mineral, grade 68, 2.5 gal container
OIL00031	OEM, 300 SUS, 1 gal container
OIL00037	OEM, (R-134) Grand 68, 1 gal container
OIL00042	OEM, 150 SUS with lubricity additive, 1 gal container
OIL00045	OEM, 300 SUS with lubricity additive, 1 gal container
OIL00048	OEM, ISO 68 Polyolester, 1 gal container

## Rydlyme Descaler

"Rydlyme is a non-hazardous, non-corrosive, non-flammable, non-injurious, non-toxic, yet fully biodegradable solvent, heavily fortified with wetting and penetrating agents which actually dissolves water scale, lime, mud, rust and other water formed deposits from water operated equipment"

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
CHM00544	RYD04	1 Gallon Bottles
CHM00545	RYD05	5 Gallon Jug
CHM00546	RYD30P	30 Gallon Drum
CHM00547	RYD55P	55 Gallon Drum
CHM00548	RYD330M	330 Gallon Tote

## Pumping Systems



The 1" **Model 10MDO** Iwaki Walchem Magnetic Drive Pump Only is a seal-less 1/2 Hp centrifugal type constructed with long lasting materials perfectly suited for **RYDLYME**. This unit weighs 46 pounds and comes with a power supply cord and sturdy plastic base. It can operate up to 40 GPM at a 51' head.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
PMP01686	10MDO	1 Inch Pump Only
PMP01687	15MDO	1-1/2 Inch Pump Only
PMP01688	10MDC	1 Inch Pump Complete
PMP01689	15MDC	1-1/2 Inch Pump Cart
PMP01709	10CIP	1 Inch C-I-P Pump

## HVAC Maintenance, Cleaners and Treatments

### Heat Be Gone

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
CHM00096	HB32	32 oz trigger spray bottle
CHM00164	TB10	Tub; strips, HBG 10 strips per tub, 10 tubs per case, each

# Compressors

## Hermetic/Compressors by Tecumseh

### Technical Reference Center

#### Compressor Number Conversion

##### AE Compressor Family



SERVICEFIRST ITEM NO	VENDOR ITEM NO	Voltage	Application	BTU/Hr	Repl B/M
COM06346	AE231KA-401-B4	265-60-1	AC-22	6500	FROM OEM
COM06349	AE231FT-401-A4	230/208-60-1	AC-22	6500	FROM OEM

##### AG Compressor Family



SERVICEFIRST ITEM NO	VENDOR ITEM NO	Voltage	Application	B/M	Repl Voltage	BTU/Hr
COM01432	AG5546E/AG111ET-004-A4	230/208-60-1	AC-22	AV168ET	230/208-60-1	46500
COM01434	AG5546F / AG111UT-004-A4	460-60-3	AC-22	AV169TT	460-60-3	46500
COM01435	AG5561E/AG133ET-001-A4	230/208-60-1	AC-22	AG133ET	230/208-60-1	61000
COM01436	AG5561E/AG133RT-003-A4	230/200-60-3	AC-22	AG133RT	230/200-60-3	61000
COM01599	AG5553E/AG122ET-003-A4	230/208-60-1	AC-22	AG122ET	230/208-60-1	54000
COM01600	AG122RT-003-A4	230/200-60-3	AC-22	AG122RT	230/200-60-3	54000
COM01601	AG5553F/AG122UT-003-A4	460-60-3	AC-22	AG122UT	460-60-3	54000
COM01613	AG55561F/AG133UT-003-A4	460-60-3	AC-22	AG133UT	460-60-3	61000
COM02064	AG 5568E (AG-144RT-001-A)	230/200-60-3	AC-22	AG144RT	230/200-60-3	68000
COM02065	AG 5568E AG-144UT-001-A4	460-60-3	AC-22	AG144UT	460-60-3	68000

##### AJ Compressor Family



SERVICEFIRST ITEM NO	VENDOR ITEM NO	Voltage	Application	B/M	Repl Voltage	BTU/Hr
COM08659	AJ137ET-205-A4	230/208-60-1	HT-134a	AJ137ET	230/208-60-1	12100
COM01709	AJ5517E/AJ210JB-259-A4	265-60-1	AC-22	AJ600JB	265-60-1	15000
COM01933	AJ600FT-205-A4	230/208-60-1	AC-22	AJ600FT	230/208-60-1	15000
COM01934	AJ600JB-205-A4	265-60-1	AC-22	AJ600JB	265-60-1	15000
COM01936	AJ5519E AJ220FT-206-A4	230/208-60-1	AC-22	AJ222FT	230/208-60-1	19300
COM01937	AJ220JB-206-A4	265-60-1	AC-22	AJ200JB	265-60-1	18500
COM01941	AJ5518E AJ200JB-206-A4	265-60-1	AC-22	AJ200JB	265-60-1	18500
COM02861	AJ778ET-361-A4	230/208-60-1	AC-22	AJ210FT	230/208-60-1	16600



**Hermetic/Compressors by Tecumseh**

**Technical Reference Center**

**Compressor Number Conversion**

*AK Compressor Family*



SERVICEFIRST ITEM NO	VENDOR ITEM NO	Voltage	Application	B/M	Repl Voltage	BTU/Hr
COM03166	AK145ET-027-A4	230/208-60-1	AC-22	AK130ET	230/208-60-1	8300
COM03167	AK145JB-027-A4	265-60-1	AC-22	FROM OEM		
COM03168	AK147ET-027-A4	230/208-60-1	AC-22	AK111ET	230/208-60-1	12000
COM03169	AK147JB-027-A4	265-60-1	AC-22	J600JB	265-60-1	15000
COM03165	AK123JB-027-A4	265-60-1	AC-22	FROM OEM		
COM03164	AK123ET-027-A4	230/208-60-1	AC-22	FROM OEM		
COM03142	AK149JB-027-A4	265-60-1	AC-22	AK100JB	265-60-1	10000
COM03141	AK149ET-027-A4	230/208-60-1	AC-22	AK100ET	230/208-60-1	10000
COM08660	AK169ET-047-A4	230/208-60-1	HT-134a	AK169ET	230/208-60-1	7680
COM01710	AK5483E/AK130JB-004-A4	265-60-1	AC-22	FROM OEM		
COM01712	AK5512E/AK111ET-004-A4	230/208-60-1	AC-22	AK111ET	230/208-60-1	12000
COM01713	AK5483E/AK130ET-004-A4	230/208-60-1	AC-22	AK130ET	230/208-60-1	8300
COM01920	AK130AT-004-A4	115-60-1	AC-22	AK130AT	115-60-1	8300
COM01925	AK5510E / AK100ET-004-A4	230/208-60-1	AC-22	AK100ET	230/208-60-1	10000
COM01926	AK100JB-004-A4	265-60-1	AC-22	AK100JB	265-60-1	10000
COM01966	AK8514E / AK148ET-018-A4	230/208-60-1	AC-22	AK111ET	230/208-60-1	12000
COM02029	AK8513E / AK144JB-009-A4	265-60-1	AC-22	AK111JB	265-60-1	12000
COM02030	AK144ET-009-A4	230/208-60-1	AC-22	AK111ET	230/208-60-1	12000
COM02069	AK8514E / AK148JB-018-A4	265-60-1	AC-22	AK111JB	265-60-1	12000
COM02224	AK8494E / AK145ET-018-A4	230/208-60-1	AC-22	AK130ET	230/208-60-1	8300
COM03142	AK149JB-H53027-A4	265-60-1	AC-22	AK100JB	265-60-1	10000
COM03168	AK147ET-027-A4	230/208-60-1	AC-22	AK111ET	230/208-60-1	12000
COM03169	AK147JB-027-A4	265-60-1	AC-22	J600JB	265-60-1	15000

**Compressors**

# Compressors

## Hermetic/Compressors by Tecumseh

### Technical Reference Center

#### Compressor Number Conversion

##### AV Compressor Family



SERVICEFIRST ITEM NO	VENDOR ITEM NO	Voltage	Application	B/M	Repl Voltage	BTU/Hr
COM03190	AV169RT-035-B4	230/200-60-3	AC-22	AV169RT	230/200-60-3	46500
COM03160	AV145TT-036-A4	460-60-3	AC-22	AV145TT	460-60-3	42500
COM03158	AV144ET-001-B4	230/208-60-1	AC-22	AV144ET	230/208-60-1	42500
COM03157	AV134TT-036-A4	460-60-3	AC-22	AV134TT	460-60-3	38400
COM03155	AV133ET-003-A4	230/208-60-1	AC-22	AV133ET	230/208-60-1	38400
COM03154	AV113JB-026-A4	265-60-1	AC-22	FROM OEM		
COM03153	AV114TT-028-A4	460-60-3	AC-22	AW508TT	460-60-3	30800
COM08412	AV190RT-045-A4Y	230/200-60-3	AC-22	AV191RT	230/200-60-3	57600
COM02268	AV168ET-005-A4	230/208-60-1	AC-22	AV168ET	230/208-60-1	46500
COM02270	AV169TT-013-A4	460-60-3	AC-22	AV169TT	460-60-3	46500
COM02271	AV113ET-002-A4	230/208-60-1	AC-22	AV113ET	230/208-60-1	32000
COM03154	AV113JB-026-A4	265-60-1	AC-22	FROM OEM		
COM02273	AV114RT-016-A4	230/200-60-3	AC-22	AW508RT	230/200-60-3	30800
COM02274	AV114TT-017-A4	460-60-3	AC-22	AW508TT	460-60-3	30800
COM02276	AV134RT-012-A4	230/200-60-3	AC-22	AV134RT	230/200-60-3	38400
COM02277	AV134TT-013-A4	460-60-3	AC-22	AV134TT	460-60-3	38400
COM02598	AV123TT-017-B4	460-60-3	AC-22	AV134TT	460-60-3	38400
COM02599	AV123RT-016-B4	230/200-60-3	AC-22	AV123RT	230/200-60-3	35200

##### AW Compressor Family



SERVICEFIRST ITEM NO	VENDOR ITEM NO	Voltage	Application	BTU/Hr	B/M	Repl Voltage
COM03195	AW507TT-091-A4	460-60-3	AC-22	28400	FROM OEM	
COM03193	AW700JT-101-A4	265-60-1	AC-22	15500	FROM OEM	
COM03197	AW503JT-089-A4	265-60-1	AC-22	19000	FROM OEM	
COM03906	AW507JT-089-A4	265-60-1	AC-22	28400	FROM OEM	
COM03192	AW700ET-101-A4	230/208-60-1	AC-22	15500	AJ600FT	230/208-60-1
COM02983	AW705JT-094-B4	265-60-1	AC-22	24200	FROM OEM	
COM03910	AW503ET-089-A4	230/208-60-1	AC-22	19000	AW702ET	230/208-60-1
COM06275	AW505RT-112-A4	230/200-60-3	AC-22	24400	AW505RT	230/200-60-3
COM02977	AW703ET-094-A4	230/208-60-1	AC-22	20500	AW702ET	230/208-60-1
COM06924	AW507RT-098-A4	230/200-60-3	AC-22	28400	AW508RT	230/200-60-3
COM06813	AW504TT-091-A4	460-60-3	AC-22	21800	FROM OEM	
COM03912	AW502JT-089-A4	265-60-1	AC-22	18000	FROM OEM	
COM02973	AW701et-094-a4	230/208-60-1	AC-22	17000	AJ210FT	230/208-60-1
COM02976	AW702JT-094-A4	265-60-1	AC-22	19000	FROM OEM	
COM02978	AW704ET-094-A4	230/208-60-1	AC-22	22000	AW705ET	230/208-60-1
COM02981	AW105FT-015-A4	230/208-60-1	AC-22	23700	AW705ET	230/208-60-1
COM03913	AW501ET-089-A4	230/208-60-1	AC-22	17000	AJ210FT	230/208-60-1
COM03914	AW507ET-089-A4	230/208-60-1	AC-22	28400	AW706ET	230/208-60-1
COM03986	AW504ET-089-A4	230/208-60-1	AC-22	21800	AW705ET	230/208-60-1
COM03987	AW504RT-112-A4	230/200-60-3	AC-22	21300	AW703RT	230/200-60-3
COM03988	AW504JT-089-A4	265-60-1	AC-22	21800	FROM OEM	
COM04329	AW505TT-091-A4	460-60-3	AC-22	24400	AW505TT	460-60-3
COM06275	AW505RT-112-A4	230/200-60-3	AC-22	24400	AW505RT	230/200-60-3

##### RK Compressor Family



SERVICEFIRST ITEM NO	VENDOR ITEM NO	Voltage	Application	BTU/Hr	Repl B/M
COM07081	RK233ET-009-A4	230/208-60-1	AC-22	17700	RK233ET
COM07241	RK222JB-009-A4	265-60-1	AC-22	15500	RK222JB
COM07082	RK233JB-009-A4	265-60-1	AC-22	17700	FROM OEM
COM07080	RK157JB-010-A4	265-60-1	AC-22	13200	FROM OEM
COM07079	RK157ET-002-A4	230/208-60-1	AC-22	13200	FROM OEM
COM04275	RK124ET-001-A4	230/208-60-1	AC-22	9100	RK124ET

Compressors

**Hermetic/Compressors by Tecumseh**

**Technical Reference Center**

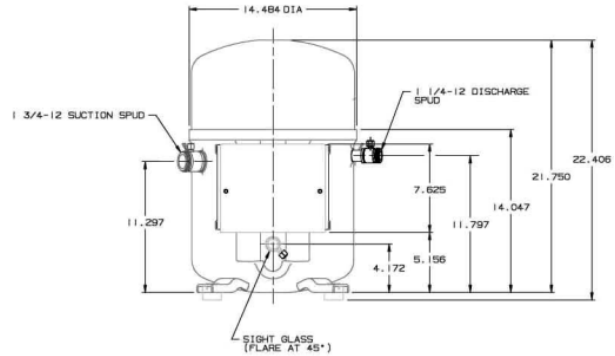
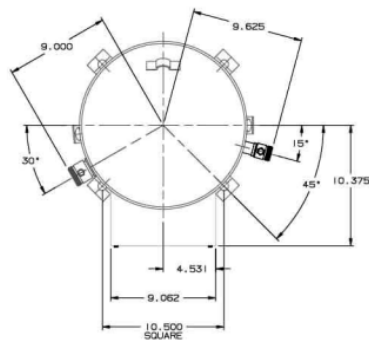
**Condensing Units**

*CT Units*

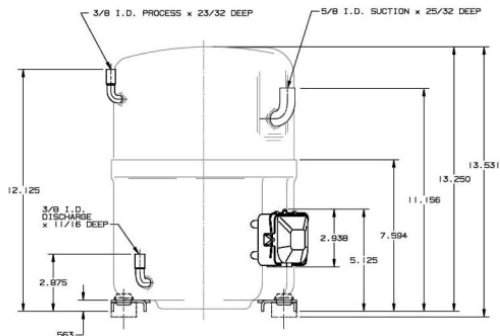
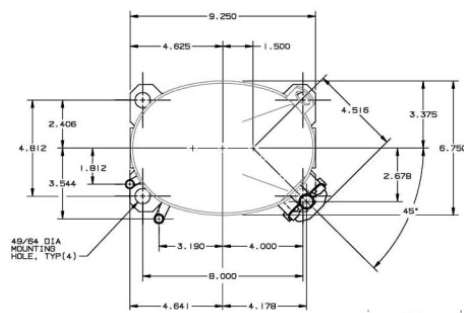
SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
OLD00528	P83739-1	OVERLOAD; COMPRESSOR

# Compressors (Hermetic)

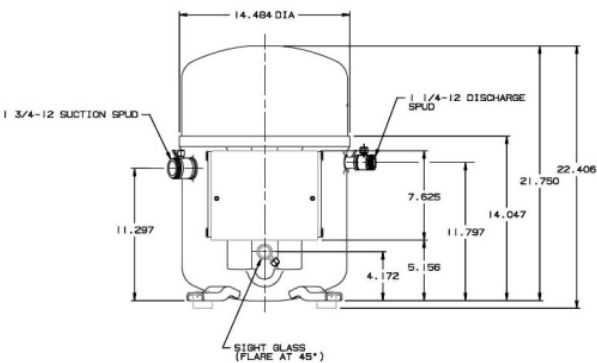
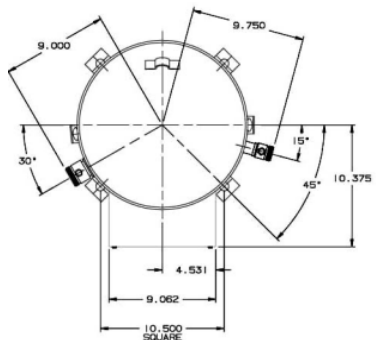
## Compressors by Bristol



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
COM07038	700691-1000-01	COMPRESSOR; BRISTOL, H2NG184GPDF, 15.3 TON, 208-230/60/3 WITH ROTOLOCKS, SUCTION 1 3/4, DISCHARGE ID 1 1/4



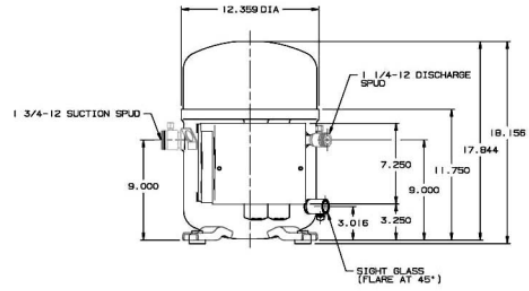
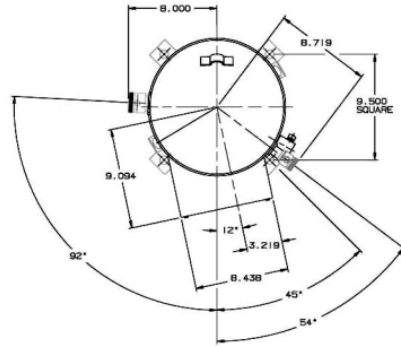
SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
COM07117	700693-1000-00	COMPRESSOR; BRISTOL, H2NG244GPDF, 21.1 TON, 230/208-3-60 WITH ROTOLOCKS, SUCTION 1 3/4, DISCHARGE ID 1 1/4



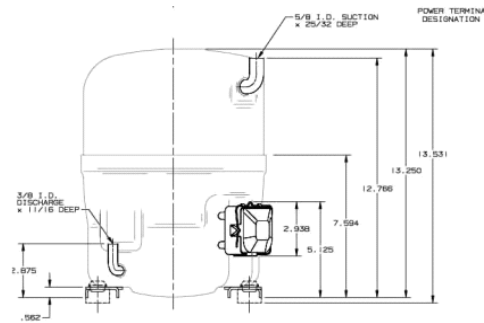
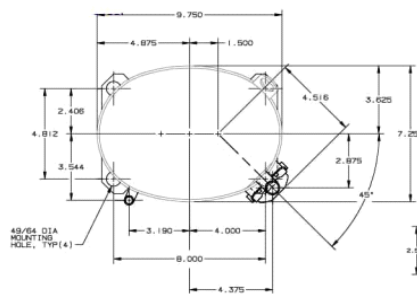
SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
COM07039	700695-1000-02	COMPRESSOR; BRISTOL, H2NG184GPEF, 460/60/3, 15 TON WITH ROTOLOCKS, SUCTION 1 3/4, DISCHARGE ID 1 1/4

Compressors (Hermetic)

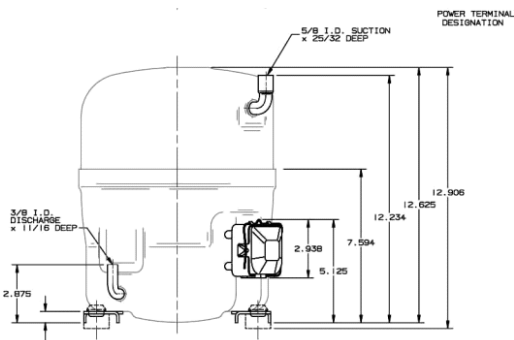
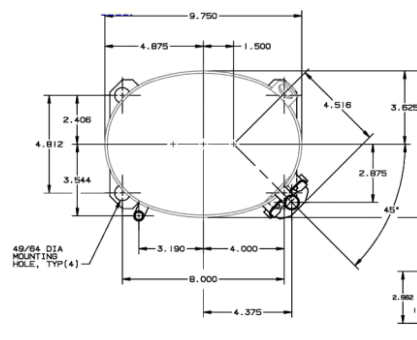
Compressors by Bristol



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
COM02059	700775-1000-03	COMPRESSOR; BRISTOL, H2NG124GPE 10 TON 460/60/3 WITH ROTOLOCKS, SUCTION 1 3/4, DISCHARGE ID 1 1/4 ACCY: HEATER MTG HTR1198 KIT0991



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
COM06881	704196-1000-01	COMPRESSOR; BRISTOL, H23B24QABCB, 1.9 TON, 208-230/1/60, SUCTION 5/8 SWEAT ELBOW, DISCHARGE ID 3/8 SWEAT ELBOW



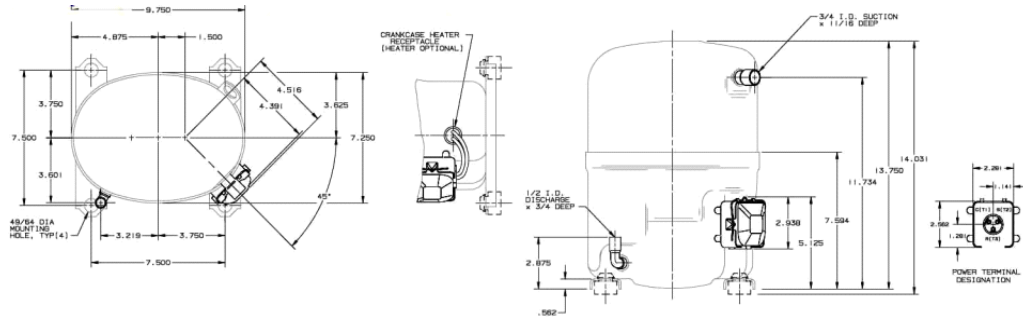
SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
COM06868	704198-1000-01	COMPRESSOR; BRISTOL, H23B15QABCB, 1.2 TON, 208-230/1/60, SUCTION 5/8 SWEAT ELBOW, DISCHARGE ID 3/8 SWEAT ELBOW

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
COM06904	725108-3000-00	COMPRESSOR; BRISTOL, H25D92QDBEJ, 7.5 TON, 460/3/60, WITH ROTOLOCKS, SUCTION 1 1/8, DISCHARGE ID 3/4

Compressors (Hermetic)

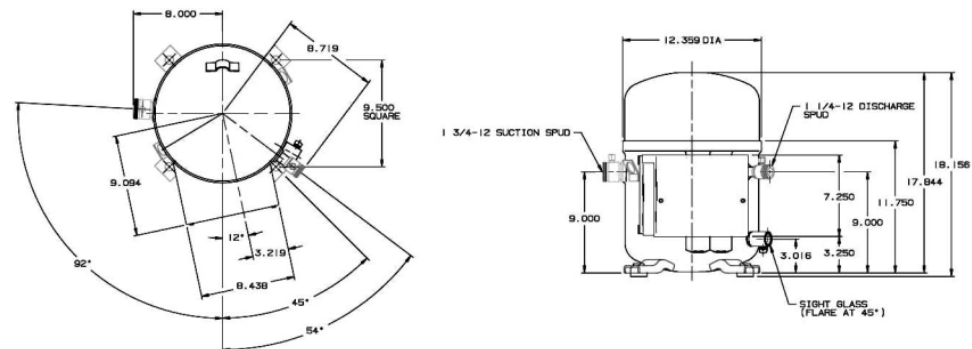
# Compressors (Hermetic)

## Compressors by Bristol

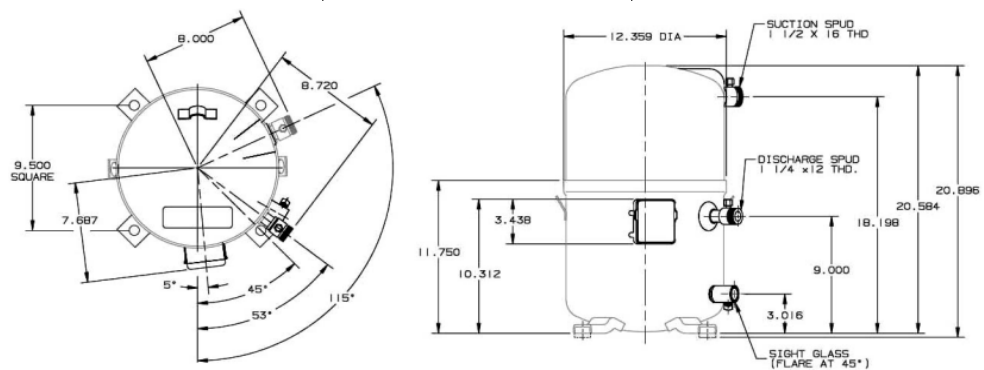


SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
COM08543	73901010002	COMPRESSOR; H29B24UABCA, BRISTOL, HERMETIC, 2 TON, 230-208/60/1

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
COM06339	COM06339	COMPRESSOR; 12 TON, 208-230/60/3, WITH ROTOLOCKS, SUCTION 1 3/4, DISCHARGE ID 1 1/4



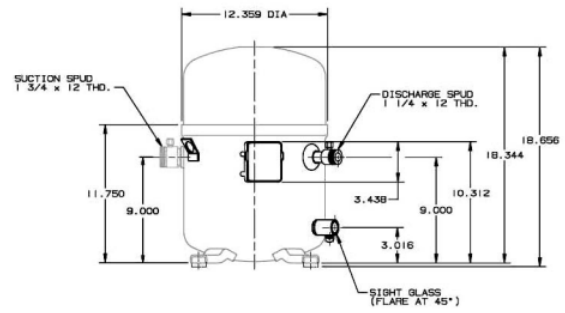
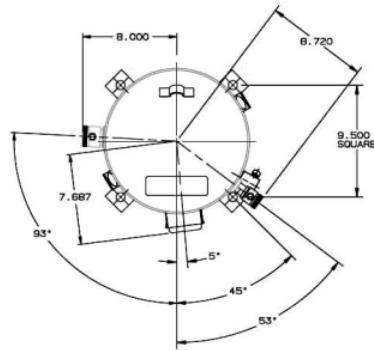
SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
COM02058	CSA# 700772-30000	COMPRESSOR; BRISTOL, H2NG124GPD 10 TON 208-230/60/3, WITH ROTOLOCKS, SUCTION 1 3/4, DISCHARGE 1 1/4 ACCY: HEATER MFG HTR1197 KIT0991



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
COM06338	H25G144DBEE-R	COMPRESSOR; 12 TON, 460/60/3, WITH ROTOLOCKS, SUCTION 1 3/4, DISCHARGE ID 1 1/4

Compressors (Hermetic)

Compressors by Bristol



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
COM01687	H2BG124DBEE	COMPRESSOR; BRISTOL H2BG124DBEE, 10 TON, 460/60/3, ACCY: HEATER MTG HTR1198 KIT0991, WITH SWEAT, SUCTION 1 3/4, DISCHARGE ID 1 1/4

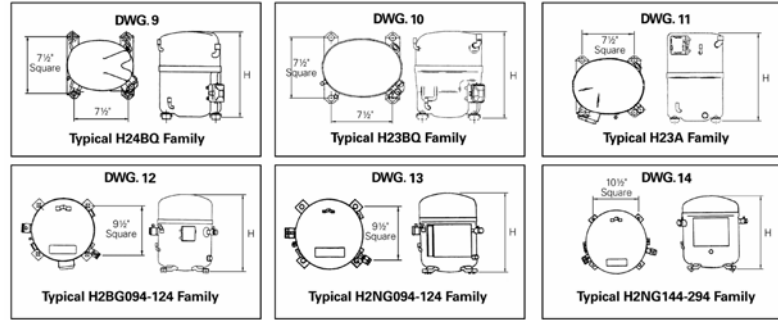
Compressors (Hermetic)

# Compressors

## Hermetic

### Compressors by Bristol

#### Hermetic Reciprocating Compressors



Compressors

SERVICEFIRST ITEM NO	VENDOR ITEM NO	NOMINAL TONNAGE	VOLTAGE60 HZ	NOMINAL SUC ID	DIS ID	SHELL HEIGHT	SHIPPING WEIGHT	RUN CAPACITOR	START CAPACITOR	START RELAY	CRANKCASE HEATER
COM06865	H24B13QABCA	1.1	230/208-1	1/2"	5/16"	13.3	62	CPT00180	CPT00086		
COM06867	H23B15QABCA	1.2	230/208-1	5/8"	3/8"	12.6	62	CPT00160	CPT00086		
COM06870	H23B17QABCA	1.4	230/208-1	5/8"	3/8"	12.6	63.5	CPT00160	CPT00086		
COM06873	H23B19QABCA	1.6	230/208-1	5/8"	3/8"	13.3	65	CPT00160	CPT00086		
COM06875	H23B20QABCA	1.6	230/208-1	5/8"	3/8"	13.3	65	CPT00160	CPT00086		
COM06880	H23B24QABCA	1.9	230/208-1	5/8"	3/8"	13.3	65.5	CPT00105	CPT00086		
COM06882	H23B26QABCA	2.2	230/208-1	5/8"	3/8"	13.3	66.5	CPT00105	CPT00086		
COM06883	H23B28QABCA	2.3	230/208-1	3/4"	3/8"	13.3	66.5	CPT00105	CPT00086		
COM06886	H23B30QABCA	2.5	230/208-1	3/4"	3/8"	13.3	67.5	CPT00201	CPT00086		
COM06887	H23A323DBLA	2.6	230/208-3	3/4"	3/8"	14.6	75	-	-	-	
COM06888	H23B32QABCA	2.6	230/208-1	3/4"	3/8"	13.8	71.3	CPT00449	CPT00086		
COM02917	H23A353ABCA	2.9	230/208-1	3/4"	3/8"	14.6	79	CPT00235	CPT00298		HTR01266
COM02912	H23A353DBLA	2.9	230/208-3	3/4"	3/8"	14.6	78	-	-	-	HTR01199
COM02049	H23A383ABCA	3.2	230/208-1	3/4"	3/8"	14.6	83	CPT00235	CPT00298	RLY01097	HTR01266
COM02051	H23A383DBEA	3.2	460-3	3/4"	3/8"	14.6	78.5	-	-	-	HTR01266
COM02921	H23A383DBLA	3.2	230/208-3	3/4"	3/8"	14.6	79	-	-	-	HTR01199
COM02923	H23A423ABCA	3.5	230/208-1	7/8"	1/2"	14.6	79	CPT00236	CPT00298	RLY01097	HTR01199
COM02919	H23A423DBEA	3.5	460-3	3/4"	3/8"	14.6	79	-	-	-	HTR01200
COM06889	H23A423DBFA	3.5	575-3	7/8"	1/2"	14.6	79	-	-	-	
COM02918	H23A423DBLA	3.5	230/208-3	3/4"	3/8"	14.6	79	-	-	-	HTR01199
COM03776	H23A463ABCA	3.9	230/208-1	7/8"	1/2"	14.6	82	CPT00236	CPT00091	RLY01097	HTR01266
COM02054	H23A463DBEA	3.9	460-3	7/8"	1/2"	14.6	79	-	-	-	HTR01266
COM06890	H23A463DBFA	3.9	575-3	7/8"	1/2"	14.6	79	-	-	-	HTR01266
COM02053	H23A463DBLA	3.9	230/208-3	7/8"	1/2"	14.6	79	-	-	-	HTR01266
COM06891	H23A503ABCA	4.1	230/208-1	7/8"	1/2"	16.1	92	CPT00236	CPT00091		HTR01266
COM06892	H23A543ABCA	4.5	230/208-1	7/8"	1/2"	16.1	92	CPT00237	CPT00091		HTR01266
COM06893	H23A543DBEA	4.5	460-3	7/8"	1/2"	16.1	84	-	-	-	HTR01266
COM06894	H23A543DBFA	4.5	575-3	7/8"	1/2"	16.1	84	-	-	-	HTR01266
COM06895	H23A543DBLA	4.5	230/208-3	7/8"	1/2"	16.1	84	-	-	-	HTR01266
COM02079	H23A563ABCA	4.6	230/208-1	7/8"	1/2"	16.1	96	CPT00239	CPT00091	RLY01690	HTR01266
COM02081	H23A563DBEA	4.6	460-3	7/8"	1/2"	16.1	88	-	-	-	HTR01266
COM06896	H23A563DBFA	4.6	575-3	7/8"	1/2"	16.1	88	-	-	-	HTR01266
COM02080	H23A563DBLA	4.6	230/208-3	7/8"	1/2"	16.1	88	-	-	-	HTR01266
COM06897	H23A623ABCA	5.1	230/208-1	7/8"	1/2"	16.1	98	CPT00239	CPT00091		HTR01266
COM06898	H23A623DBEA	5.1	460-3	7/8"	1/2"	16.1	88	-	-	-	HTR01266
COM06899	H23A623DBFA	5.1	575-3	7/8"	1/2"	16.1	88	-	-	-	HTR01266
COM06900	H23A623DBLA	5.1	230/208-3	7/8"	1/2"	16.1	88	-	-	-	HTR01266
COM06901	H2NG094DPFE	7.3	575-3	1.75-12 R	1.25-12 R	17.6	162	-	-	-	
COM06902	H2BG094DBDE	7.4	230/208-3	1.75-12 R	1.25-12 R	17.6	138	-	-	-	
COM06903	H2BG094DBEE	7.4	460-3	1.75-12 R	1.25-12 R	17.6	138	-	-	-	
COM06906	H2BG104DBEE	8.4	460-3-60	1.75-12 R	1.25-12 R	18.3	153	-	-	-	
COM06907	H2NG104DRFE	8.5	575-3	1.75-12 R	1.25-12 R	18.3	166	-	-	-	
COM06908	H2BG104DBDE	8.7	230/208-3	1.75-12 R	1.25-12 R	18.3	153	-	-	-	
COM07114	H2BG124DBEE	9.9	460-3	1.75-12 R	1.25-12 R	18.3	146	-	-	-	HTR01198
COM01686	H2BG124DBDE	10.1	230/208-3	1.75-12 R	1.25-12 R	18.3	146	-	-	-	HTR01197
COM06910	H2NG184DPFF	15.3	575-3	1.75-12 R	1.25-12 R	21.8	253	-	-	-	
COM02287	H2NG184DPEF	15.3	460-3	1.75-12 R	1.25-12 R	21.8	253	-	-	-	HTR01200
COM06911	H2NG204DREF	17.7	460-3	1.75-12 R	1.25-12 R	21.8	260	-	-	-	



**Hermetic**

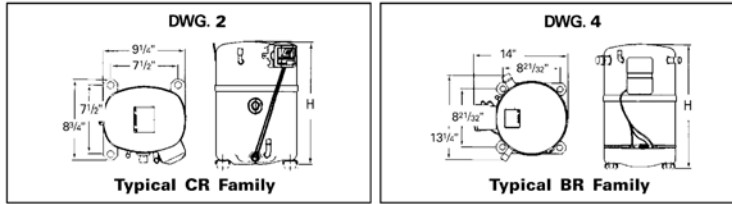
**Compressors by Bristol**

**Hermetic Reciprocating Compressors**

SERVICEFIRST ITEM NO	VENDOR ITEM NO	NOMINAL TONNAGE	VOLTAGE60 HZ	NOMINAL SUC ID	DIS ID	SHELL HEIGHT	SHIPPING WEIGHT	RUN CAPACITOR	START CAPACITOR	START RELAY	CRANKCASE HEATER
COM06912	H2NG204FRDF	17.7	230/208-3	1.75-12 R	1.25-12 R	21.8	260	-	-	-	
COM06913	H2NG244DREF	21.1	460-3	1.75-12 R	1.25-12 R	21.8	269	-	-	-	
COM06914	H2NG244FRDF	21.1	230/208-3	1.75-12 R	1.25-12 R	21.8	269	-	-	-	
COM06915	H2NG294DPEF	24	460-3	1.75-12 R	1.25-12 R	21.8	280	-	-	-	
COM06916	H2NG294FPDF	24	230/208-3	1.75-12 R	1.25-12 R	21.8	280	-	-	-	

# Compressors by Copeland

## Hermetic Reciprocating Compressors



Compressors

SERVICEFIRST ITEM NO	VENDOR ITEM NO	NOMINAL TONNAGE	VOLTAGE		NOMINAL SUC ID	DIS ID	SHELL HEIGHT	SHIPPING WEIGHT	RUN CAPACITOR	START CAPACITOR	START RELAY	CRANKCASE HEATER
			60 HZ	50 HZ								
COM04479	CRC1-0175-TF5-970	1.7	200/230-3	200/240-3	5/8"	3/8"	13.8	66	-	-	-	HTR01266
COM02227	CRD1-0200-PF V-970	2	208/230-1	200/220-1	5/8"	3/8"	13.8	66	CPT00234	CPT00298	RLY01688	HTR01266
COM01970	CRG3-0250-PF V-970	2.7	208/230-1	200/220-1	3/4"	3/8"	14.3	70	CPT00240	CPT00411	RLY01690	HTR01266
COM04499	CRH3-0275-TF5-970	2.8	200/230-3	200/240-3	3/4"	3/8"	14.6	72	-	-	-	HTR01266
COM07199	CRJ3-0290-PFV-970	3	208/230-1	200/220-1	3/4"	3/8"	14.8	72	CPT00236	CPT00259	RLY01690	HTR01266
COM06263	CRJ3-0290-TF5-970	3	200/230-3	200/240-3	3/4"	3/8"	14.8	72	-	-	-	HTR01266
COM02486	CRJ3-0300-PFV-970	3.2	208/230-1	200/220-1	3/4"	3/8"	14.8	72	CPT00235	CPT00259	RLY01690	HTR01266
COM02637	CRK3-0325-PF V-970	3.5	208/230-1	200/220-1	3/4"	3/8"	15.1	76	CPT00236	CPT00259	RLY01690	HTR01266
COM04514	CRK3-0325-TF5-970	3.5	200/230-3	200/240-3	3/4"	3/8"	15.1	76	-	-	-	HTR01266
COM02526	CRL3-0350-PFV-970	3.9	208/230-1	200/220-1	7/8"	1/2"	15.3	79	CPT00236	CPT00259	RLY01690	HTR01266
COM02061	CRM3-0400-PF V-970	4.4	208/230-1	200/220-1	7/8"	1/2"	15.3	80	CPT00238	CPT00259	RLY01690	HTR01266
COM04529	CRT5-0450-PF V-970	4.6	208/230-1	200/220-1	7/8"	1/2"	15.9	88	CPT00237	CPT00259	-	HTR01266
COM04530	CRT5-0450-TF5-970	4.6	200/230-3	200/240-3	7/8"	1/2"	15.9	88	-	-	-	HTR01266
COM04531	CRT5-0450-TF D-970	4.6	460-3	380/420-3	7/8"	1/2"	15.9	88	-	-	-	HTR01266
COM04532	CRT5-0450-TFE-970	4.6	575-3	550-3	7/8"	1/2"	15.9	88	-	-	-	HTR01266
COM03161	CRP5-0450-PF V-970	4.9	208/230-1	200/220-1	7/8"	1/2"	15.9	94	CPT00237	CPT00259	RLY01690	HTR01266
COM03162	CRP5-0450-TF5-970	4.9	200/230-3	200/240-3	7/8"	1/2"	15.9	94	-	-	-	HTR01266
COM03163	CRP5-0450-TF D-970	4.9	460-3	380/420-3	7/8"	1/2"	15.9	94	-	-	-	HTR01266
COM06337	CRP5-0450-TF E-970	4.9	575-3	550-3	7/8"	1/2"	15.9	94	-	-	-	HTR01266
COM02555	CRN5-0500-PF V-970	5.2	208/230-1	200/220-1	7/8"	1/2"	16.1	88	CPT00239	CPT00091	RLY01692	HTR01266
COM02536	CRN5-0500-TF5-970	5.3	200/230-3	200/240-3	7/8"	1/2"	15.9	88	-	-	-	HTR01266
COM02537	CRN5-0500-TF D-970	5.3	460-3	380/420-3	7/8"	1/2"	16.1	88	-	-	-	HTR01266
COM02538	CRN5-0500-TF E-970	5.3	575-3	550-3	7/8"	1/2"	16.1	88	-	-	-	HTR01266
COM04537	BRD2-0750-TF C-902	7.5	208/230-3	200/220-3	1 1/8"	3/4"	18.4	169	-	-	-	HTR00219
COM04538	BRD2-0750-TF D-902	7.5	460-3	380/420-3	1 1/8"	3/4"	18.4	169	-	-	-	HTR00220
COM02066	BRE2-0750-TF C-902	8.1	208/230-3	200/220-3	1 1/8"	3/4"	18.4	169	-	-	-	HTR00219
COM02067	BRE2-0750-TF D-902	8.1	460-3	380/420-3	1 1/8"	3/4"	18.4	169	-	-	-	HTR00220
COM02364	BRE2-0750-TFE-904	8.1	575-3	550-3	1 1/8"	3/4"	18.4	169	-	-	-	HTR00219
COM02086	BRG2-0900-TF C-902	9.2	208/230-3	200/220-3	1 1/8"	3/4"	18.4	169	-	-	-	HTR00219

**Hermetic**

**Compressors by Copeland**

**Hermetic Reciprocating Compressors**

SERVICEFIRST ITEM NO	VENDOR ITEM NO	NOMINAL TONNAGE	VOLTAGE		NOMINAL SUC ID	DIS ID	SHELL HEIGHT	SHIPPING WEIGHT	RUN CAPACITOR	START CAPACITOR	START RELAY	CRANKCASE HEATER
			60 HZ	50 HZ								
COM02087	BRG2-0900-TF D-902	9.2	460-3	380/420-3	1 1/8"	3/4"	18.4	169	-	-	-	HTR00220
COM06959	BRG2-0900-TF E-904	9.2	575-3	550-3	1 1/8"	3/4"	18.4	169	-	-	-	
COM02363	BRG2-0900-TF E-952	9.2	575-3	550-3	1 1/8"	3/4"	18.4	169	-	-	-	HTR00220
COM02238	BRH2-1000-TF C-952	10.4	208/230-3	200/220-3	1.75-12R	1.25-12R	18.4	169	-	-	-	HTR00219
COM02239	BRH2-1000-TF D-952	10.4	460-3	380/420-3	1.75-12R	1.25-12R	18.4	169	-	-	-	HTR00220
COM06958	BRH2-1000-TF E-904	10.4	575-3	550-3	1 1/8"	3/4"	18.4	169	-	-	-	
COM01595	BRK2-1200-TF C-902	12.5	208/230-3	200/220-3	1 1/8"	3/4"	18.4	179	-	-	-	HTR00219
COM01596	BRK2-1200-TF D-902	12.5	460-3	380/420-3	1 1/8"	3/4"	18.4	179	-	-	-	HTR00220
COM06960	BRK3-1200-TS E-905	12.5	575-3	550-3	1 1/8"	3/4"	18.4	179	-	-	-	

# Compressors

## Accessories

### Aeroquip O-Rings

SERVICEFIRST ITEM NO	FITTING SIZE
RNG01009	6
RNG01010	10
RNG01011	11
RNG01012	12

### Gaskets

SERVICEFIRST ITEM NO	FITTING SIZE
GKT01532	1.00-14
GKT01533	1.25-12
GKT01534	1.75-12

### Hard Start Kits

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
KIT01477	C941280G01	Kit, start
CNT00962	B940977G01	Control, start accessory

### Hard Start Kits by ICM



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
KIT07685	ICM803C	Kit, rapid start hard start, use on 1/2 thru 3 HP
KIT07686	ICM805	Kit, rapid start hard start, use on 3 thru 5 HP
KIT07687	ICM810	Kit, rapid start hard start, use on 5 thru 10 HP
KIT07688	ICM850	Kit, rapid start hard start, differential voltage sensing
KIT07689	ICM0860	Kit, rapid start hard start, differential voltage sensing

### Kickstart Hard Start Device

A two-wire hard start kit using potential relay and start capacitor. No thermistors, hot wires, or time delays. Easy to install. Eliminates expensive multiple potential relay and capacitor inventory.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
CPT00697	95-T05	208/230 Volts, maximum torque 2-5 HP, uses 295 MFD capacitor

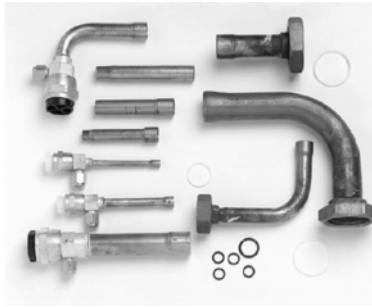
### Mounting Kits



SERVICEFIRST ITEM NO	DESCRIPTION
KIT01172	3 grommets, mounting hardware
KIT01173	4 grommets, mounting rails, mounting hardware
KIT00987	4 grommets, 4 sleeves
KIT00988	4 grommets, 4 sleeves
KIT00989	4 grommets, 4 sleeves
KIT00990	4 grommets, 4 sleeves
KIT00991	4 grommets, 4 sleeves
KIT00992	4 grommets, 4 sleeves
KIT01244	4 grommets, 4 sleeves
MNT00533	3 grommets, mounting feet, mounting hardware

Accessories

Quick Connect Kits



Kits refer to fittings of size 6 for Aeroquip fitting size 5/8" through 18" and size 11 for Aeroquip fitting size 1 1/8" through 12".

SERVICEFIRST ITEM NO	TUBING SIZE	CONFIGURATION	FITTING SIZE	AEROQUIP SIZE
KIT01468	1/4", 5/8"	straight, 90°	5/8"-18, 1 1/8"-12	6, 11
KIT01469	1/4", 5/8"	straight, straight	5/8"-18, 1 1/8"-12	6, 11
KIT01478	5/16", 3/4"	straight, 90°	5/8"-18, 1 1/8"-12	6, 11
KIT01479	5/16", 3/4"	straight, straight	5/8"-18, 1 1/8"-12	6, 11
KIT01470	3/8", 7/8"	straight, 90°	5/8"-18, 1 1/8"-12	6, 11
KIT01471	3/8", 7/8"	straight, straight	5/8"-18, 1 1/8"-12	6, 11
KIT01472	3/8", 1 1/8"	straight, 90°	5/8"-18, 1 1/8"-12	6, 11
KIT01473	3/8", 1 1/8"	straight, straight	5/8"-18, 1 1/8"-12	6, 11

Stub Tube Kits

Kits contain one fitting. Two fittings required (one for suction, one for discharge). Select by tube size. Refer to compressor listings for Rotolock fitting size. Tubing size must be obtained by measuring tubing unit.

SERVICEFIRST ITEM NO	TUBING SIZE	FITTING SIZE
KIT01158	3/8"	1.00-14
KIT01160	3/8", 5/8", 3/4", 90°	1.00-14
KIT01167	3/8", 5/8", 3/4", 90°	1.25-12
KIT01159	1/2"	1.00-14
KIT01162	1/2"	1.25-12
KIT01161	5/8"	1.00-14
KIT01163	5/8"	1.25-12
KIT01164	3/4"	1.25-12
KIT01169	3/4", 7/8", 90°	1.75-12
KIT01165	7/8"	1.25-12
KIT01168	7/8"	1.75-12
KIT01166	7/8", 90°	1.75-12
KIT01170	1 1/8"	1.75-12
KIT01171	1 1/8", 90°	1.75-12

# Controls

## Three Phase Plug-In Line Monitor, Front Side Protection

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
MOD00863	ICM410	Module; 3-phase, plug-in line monitors, front side protection, adjustable 200- 240 VAC, fixed symetry 8%, 8-pin plugin

## Bypass Timer

To bypass a switch or device during setup.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
TMR00159	ICM175B	Normally closed delay on make

## Capacitors

### OEM Capacitors by GE

#### Run Capacitors

##### 370VAC Oval Run Capacitors



Replacement motor run capacitors are available in both 370 VAC and 440 VAC, from 3 MFD to 60 MFD. Capacitors are available in both the oval and round configurations. Nine motor run capacitors are supplied with a .22 meg ohm bleed resistor. These are used on compressors with a tricklecharge, oil-sump heater system. On these systems, the capacitor is out of circuit when the main disconnect is shut off, so the capacitor does not bleed down. For safety a bleed resistor is required on these units.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	RESISTOR	A	B	C
CPT00209	3	no	2.12	1.31	2.16
CPT00076	4	no	2.12	1.31	2.16
CPT00072	5	no	2.12	1.31	2.16
CPT00276	6	no	2.12	1.31	2.16
CPT00120	7.5	no	2.88	1.31	2.16
CPT00230	10	no	2.88	1.31	2.16
CPT00255	12.5	no	3.88	1.31	2.16
CPT00180	15	no	3.88	1.31	2.16
CPT00316	20	no	2.88	1.91	2.91
CPT00160	25	no	2.88	1.91	2.91
CPT00202	30	no	2.88	1.91	2.91
CPT00105	35	no	3.88	1.91	2.91
CPT00201	40	no	3.88	1.91	2.91

##### 370VAC Round Run Capacitors

SERVICEFIRST ITEM NO	VENDOR ITEM NO	RESISTOR	A	B
CPT00654	4	no	2.62	1.68
CPT00655	5	no	2.62	1.68
CPT00662	7.5	no	2.62	1.62
CPT00663	12.5	no	3.5	1.68
CPT00251	10	no	2.88	1.75
CPT00283	17.5	no	2.88	1.75
CPT00464	20	no	2.88	1.88
CPT00233	25	no	2.88	1.75
CPT00241	30	no	3.88	1.75
CPT00240	40	no	3.88	1.75

Capacitors

OEM Capacitors by GE

Run Capacitors

440VAC Motor Run Capacitors

SERVICEFIRST ITEM NO	VENDOR ITEM NO	RESISTOR	A	B
CPT00658	20/4	yes	3.25	2.12
CPT00659	30/5	no	2.75	2.62
CPT00676	30/5	yes	2.75	2.62
CPT00675	30/15	yes	2.5	2.62
CPT00667	35/4	no	2.5	2.62
CPT00622	35/20	yes	2.5	2.62
CPT00668	40/5	no	2.5	2.62
CPT00683	40/12.5	no	2.5	2.62
CPT00682	45/4	no	2.5	2.62
CPT00656	45/5	no	2.5	2.62
CPT00669	45/7.5	no	2.5	2.62
CPT00660	50/5	no	2.5	2.62
CPT00657	50/12.5	no	2.5	2.62
CPT00670	55/5	no	2.5	2.62
CPT00661	60/12.5	no	2.5	2.62

440VAC Oval Run Capacitors



440VAC Round Run Capacitors

SERVICEFIRST ITEM NO	VENDOR ITEM NO	RESISTOR	A	B	C
CPT00161	4	no	2.88	1.31	2.16
CPT00119	5	no	2.88	1.31	2.16
CPT00221	6	no	2.88	1.31	2.16
CPT00203	7.5	no	3.88	1.31	2.16
CPT00088	10	no	3.88	1.31	2.16
CPT00422	12.5	yes	4.5	1.31	2.16
CPT00206	15	no	2.88	1.91	2.91
CPT00231	20	no	2.88	1.91	2.91
CPT00444	25	no	2.88	1.91	2.91

SERVICEFIRST ITEM NO	VENDOR ITEM NO	RESISTOR	A	B
CPT00258	12.5	no	2.88	1.75
CPT00453	15	no	2.88	1.75
CPT00274	15	yes	2.88	1.75
CPT00270	20	yes	3.5	1.75
CPT00442	25	yes	4.75	1.75
CPT00456	30	no	3.88	1.75
CPT00321	30	yes	4.75	1.75
CPT00235	35	no	3.88	1.75
CPT00271	35	yes	3.12	2.5
CPT00236	40	no	3.88	2
CPT00272	40	yes	3.5	2.5
CPT00237	45	no	3.88	2
CPT00275	45	yes	3.88	2.5
CPT00238	50	no	3.88	2.5
CPT00239	55	no	4.75	2.5
CPT00421	55	yes	4.25	2.5
CPT00392	60	no	4.75	2.5

# Controls

## Capacitors

### Dual Rated Capacitors

SERVICEFIRST ITEM NO	MFD		RESISTOR	VOLT
	1	2		
CPT00673	20	4	No	440
CPT00658	20	4	Yes	440
CPT00687	20	5	No	440
CPT00690	20	5	Yes	440
CPT01166	25	4	No	440
CPT01167	25	4	Yes	440
CPT00695	25	5	No	440
CPT00672	30	4	No	440
CPT00696	30	4	Yes	440
CPT00659	30	5	No	440
CPT00835	30	5	No	440
CPT00676	30	5	Yes	440
CPT00675	30	15	Yes	440
CPT00667	35	4	No	440
CPT00977	35	5	No	440
CPT00837	35	5	No	440
CPT00694	35	5	Yes	440
CPT01248	35	7.5	No	440
CPT00693	35	15	Yes	440
CPT00622	35	20	Yes	440
CPT00694	40	4	No	440
CPT00668	40	5	No	440
CPT01032	40	7.5	No	440
CPT00683	40	12.5	No	440
CPT00682	45	4	No	440
CPT00656	45	5	No	440
CPT00669	45	7.5	No	440
CPT00688	45	12.5	No	440
CPT00660	50	5	No	440
CPT01021	50	7.5	No	440
CPT00657	50	12.5	No	440
CPT00670	55	5	No	440
CPT00691	60	5	No	440
CPT01033	60	7.5	No	440
CPT00661	60	12.5	No	440

Controls

### Motor Starter Capacitors



Motor starter capacitors are available in capacitance ratings from 21 to 259 mfd. Most models are rated 330 VAC. All motor starter capacitors are supplied with a two-watt, 15,000-ohm bleed resistor. The bleed resistor is required, for safety purposes, to discharge the capacitor before the unit is serviced.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	RESISTOR	VOLT	A	B	DUTY SEC		CYCLE SEC	DURATION OF TEST NO STARTS
						ON	OFF		
CPT00299	21-25	yes	330	4.38	1.44	1	59	33500	
CPT00114	72-88	yes	330	4.88	2.56	1	179	16500	
CPT00086	88-108	yes	330	4.38	2.56	1	59	40000	
CPT00162	108-130	yes	330	4.88	2.56	1	59	40000	
CPT00301	124-149	yes	330	4.38	2.56	1	239	12500	
CPT00091	135-155	yes	330	4.38	2.56	1	59	40000	
CPT00298	145-174	yes	250	4.38	2.56	1	179	16500	
CPT00411	161-193	yes	330	4.38	2.56	1	59	40000	
CPT00259	189-227	yes	330	4.88	2.56	1	179	16500	
CPT00429	216-259	yes	330	4.38	2.56	1	59	40000	

## Contactors and Starters

### Function Relays, Interfaces and Converters

#### Coupling Relays and Interfaces

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Contact		
		rating	configuration	Rated control supply voltage
RLY02975	3TX7121-5FF13	15 A	3PDT	120 V AC



**Contactors and Starters**

**Function Relays, Interfaces and Converters**

**Coupling Relays and Interfaces**

*Premium line, miniature relays*

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Contact		Rated control supply voltage
		rating	configuratio n	
RLY02978	3TX7110-5JF13	15 A	SPDT	120 V AC
RLY02980	3TX7110-5JC13	15 A	SPDT	24 V AC

**Solid-State Time Relays**

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
3RP20 25-1AQ30	3RP20 25-1AQ30	3RP20 25 time relay, on delay, 15 time setting ranges

**Furnas Definite Purpose Contactors—Premium Line by Siemens**



The Furnas Centurion 2000 offers a high new standard in definite-purpose control. The largest, most complete line of definite-purpose motor controls in the industry, it is ideal for many applications including HVAC. Features include: 2, 3, and 4 pole, 25-60 FLA, 60 Hz, 600VAC Max, compact size, interchangeable mounting, snap-on electrical/mechanical interlocks, and long life.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
CTR01730	42BF15AJ	2P-30A-24V
CTR01149	42BF35AJ	3P-30A-24V
CTR01150	42BF35AF	3P-30A-110/220V
CTR01151	42BF35AG	3P-30A-208/240V
CTR01158	42CF15AJ	2P-40A-24V
CTR01160	42CF15AG	2P-40A-208/240V
CTR01161	42CF35AJ	3P-40A-24V
CTR01162	42CF35AF	3P-40A-110/220V
CTR01163	42CF35AG	3P-40A-208/240V
CTR01165	42CF25AF	4P-40A-110/220V
CTR01170	42EF35AJ	3P-60A-24V
CTR01171	42EF35AF	3P-60A-110/240V
CTR01172	42EF35AG	3P-60A-208/240V

**Furnas Definite Purpose Contactors—Standard Line by Siemens**



Furnas compact definite purpose contactors are designed for controlling air conditioning, heating, welding, data processing, and refrigeration equipment. They provide reliable, full-voltage control of compressor motors and electric heating loads. Features include: 1 and 2 pole, 20-40 FLA, 60 Hz, 600 VAC Max.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
CTR01134	45CG10AJA	1P-20A-24V
CTR01135	45CG10AFA	1P-20A-110V
CTR01136	45CG10AGA	1P-20A-208V
CTR01137	45CG20AJ	2P-20A-24V
CTR01138	45CG20AF	2P-20A-110V
CTR01139	45CG20AG	2P-20A-208V
CTR01359	45CG20AL	2P-20A-277V
CTR01143	45EG10AJA	1P-30A-24V
CTR01144	45EG10AFA	1P-30A-110V
CTR01145	45EG10AGA	1P-30A-208V
CTR01146	45EF20AJ	2P-30A-24V
CTR01147	45EG20AF	2P-30A-110V
CTR01148	45EG20AG	2P-30A-208V
CTR01360	45EG20AL	2P-30A-277V
CTR00736	45FG10ALA	1P-35A-277V
CTR01152	45GG10AJA	1P-40A-24V
CTR01153	45GG10AFA	1P-40A-110V
CTR01154	45GG10AGA	1P-40A-208V
CTR01155	45GG20AJ	2P-40A-24V
CTR01156	45GG20AF	2P-40A-110V
CTR01157	45GG20AG	2P-40A-208V

# Controls

## Contactors and Starters

### Furnas Heavy Duty Contactor, Full Voltage Non-Reversing by Siemens—Class 40

3 Pole, Three Phase



Class 40 industrial magnetic contactors are designed for electrical loads such as heating, lighting, transformer and capacitor switching, and AC motor starter. Features include: rugged industrial design, front removable auxiliary interlocks, easy coil access, horsepower rating, and motor-matched sizes.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	VOLTS				NEMA SIZE	HALF SIZE	CONTAMPRATING
		200	230	460	575			
CTR01647	40BG32AA	1 1/2	1 1/2	2	2	0	-	9
CTR01648	40CP32AA	3	3	5	5	0	-	18
CTR01649	40DP32AA	7 1/2	7 1/2	10	10	1	-	27
CTR01650	40FP32AA	10	15	25	25	2	-	45
CTR01651	40HP32AA	20	30	50	50	3	-	90
CTR01652	40JG32AA	40	50	100	100	4	-	135
CTR01653	40LG32A*	75	100	200	200	5	-	270
CTR01654	40MG32A*	150	200	400	400	6	-	540

### Furnas Premium Line Contactor Accessories by Siemens

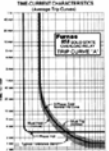


Auxiliary electrical interlocks may be added to the contactor frame for individual control of control circuits. They are available for all premium line-contactor sizes.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	AMP/VOLT
SWT01730	49D36098001X462	1 SPDT	10A/270V
SWT01731	49D36098003X462	2 SPDT	10A/270V
SWT01732	49ACROX462	1 SPST-NO	10A/600V
SWT01733	49ACRCX462	1 SPST-NC	10A/600V

### Furnas Special Use Solid-State Overloads, Class 958 by Siemens

Trip Curve A



Furnas special use solid-state overload relays are self-powered, requiring no separate source to power the circuit board. They provide excellent protection of hermetically sealed compressors and artificially cooled motors, which require ambient insensitivity and quick trip-response times. Features include: hermetically sealed compressor motor applications. Phase-loss protection-trips within 3 seconds. 2% repeat-trip accuracy. Manual reset or self reset. Must hold amps adjustment dial. Wide adjustment range. Self-powered overload. Heaterless design.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	AMP RANGE	FRAMESIZE
RLY02354	958AA32A	15-30	A1
RLY02355	958BA32A	22-44	A1
RLY02356	958CA32A	33-66	B
RLY02357	958DA32A	50-100	B
RLY02358	958EA32A	75-150	B
RLY02359	958FA32Aa	90-180	B

### Heavy Duty 100 Amp

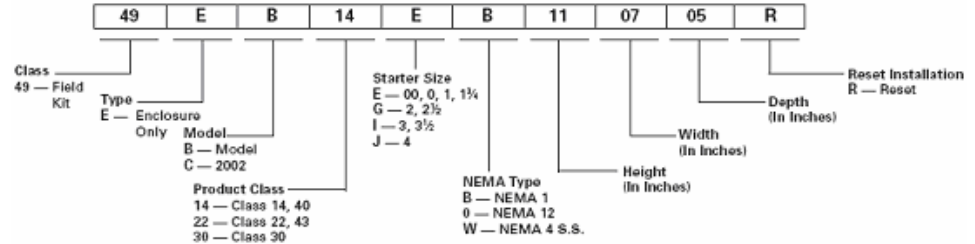
600 Volts Non-Fusible

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
SWT02748	HNF363R	SWITCH; HEAVY DUTY NEMA 3R OUTDOOR TYPE SAFETY SWITCH, NON-FUSIBLE, 600V, 100A

Contactors and Starters

Heavy Duty Control Non-Combition Enclosure Kits

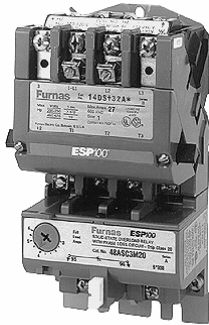
Non-Reversing Starters & Contactors Class 14, 40



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	Size
KIT06558	49EC14EB110705R	Enclosure kit, non-combination style, NEMA 1, non-reversing, NEMA size 0-1 3/4	00-1 3/4

Heavy Duty Motor Starters Solid-State Overload, Manual Reset, Class 14 by Siemens

3 Phase, 3 Pole



Heavy-duty starters are designed for across-the-line starting of single-phase and polyphase motors. These controls are available in NEMA sizes 0 through 6. In addition to the usual NEMA starter sizes, Siemens-Furnas offers four exclusive half sizes; 13/4, 21/2, 31/2, and 41/2. These integral sizes offer the same rugged, industrial construction as our NEMA sizes and ensure efficient operating performance. Half sizes exceed the motor ratings. Features include: rugged industrial design, wide range of accessories, easy coil access, Class 48 solid-state overload relay, half sizes for cost and space savings.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	AMP RANGE	MAX HP OVERLOAD				NEMA SIZE
			200 VOLTS	230 VOLTS	460 VOLTS	575 VOLTS	
OLD00343	14CSA32AA	0.25-1	1/6	1/6	1/3	1/2	0
OLD00344	14CSB32AA	0.75-3	1/2	3/4	1 1/2	2	0
OLD00345	14CSD32AA	2.5-10	2	2	5	5	0
OLD00346	14CSE32AA	18-Sep	3	3	-	-	0
OLD00347	14DSA32AA	0.25-1	1/6	1/6	1/3	2-Jan	1
OLD00348	14DSB32AA	0.75-3	1/2	3/4	1 1/2	2	1
OLD00349	14DSD32AA	2.5-10	2	2	5	5	1
OLD00350	14DSE32AA	18-Sep	3	3	10	10	1
OLD00351	14DSF32AA	13-27	7 1/2	7 1/2	-	-	1
OLD00352	14FSF32AA	13-27	-	-	15	20	2
OLD00353	14FSH32AA	22-45	10	15	25	25	2
OLD00354	14HSJ32AA	30-60	-	-	30	40	3
OLD00355	14HSK32AA	45-90	25	30	50	50	3
OLD00356	14JTM32AA	67-135	40	50	100	100	4
OLD00357	14LTU32AF	100-270	75	100	200	200	5
OLD00358	14MTX32AF	200-540	150	200	400	400	6

IEC Contactors

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
CTR01912	3RT1064-6AR36	CONTACTOR; 3 POLE, 225A IEC, 2 NO & 2 NC AUX CONTACTS, 440-480V AC/DC COIL ALSO REQUIRES QUANTITY 2 TER01104
CTR01910	3RT1064-6AF36	CONTACTOR; 3 POLE, 225A IEC, 2 NO & 2 NC AUX CONTACTS, 110-127V AC/DC COIL ALSO REQUIRED IS QUANTITY 2 TER01104
CTR02160	3RT1076-6AF36	CONTACTOR; 500 AMP, 3 POLE, IEC STYLE, 110-127V COIL

Controls

# Controls

## Contactors and Starters

### IEC Overload Relays

#### SIRIUS 3RU11 and 3RB10 with Screw Terminals

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
KIT12195	3RU1926-3AA01	KIT; SIEMENS 3RU1926-3AA01 OVERLOAD MOUNTING KIT

#### SIRIUS 3RU11 Bimetallic Class 10 Overload Relays with Screw Terminals

3RU112—for direct mounting to 3RT102 contactors



- 1 NO & 1 NC auxiliary contacts
- Manual/automatic RESET
- Trip indicator
- STOP button
- Test function
- Sealable cover
- For accessories, technical data, and dimensions see Siemens Industrial Control Products Catalog - CPPC-06000.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
OLD00532	3RU1126-1EB0	OVERLOAD; SIEMENS 3RU1126-1EB0, 2.8 - 4 AMP

## Overload Relay Heater Tables

### Full Load Motor Amps-Table 211

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	Size	
			00,0,1	1P
HTR00237	E65	HEATER;OVERLOAD	20.7-22.0	20.7-22.0
HTR00258	E60	HEATER;OVERLOAD	15.3-17.2	15.3-17.2
HTR00239	E70	HEATER;		
HTR00247	E73	HEATER;		
HTR00249	E78	HEATER;ELEMENT,OVERLOAD, MAG STARTER, STD TRIP		
HTR00238	E56	HEATER; OVERLOAD	12.4-13.4	12.4-13.4
HTR00223	E53	HEATER;OVERLOAD	9.75-10.5	9.75-10.5
HTR00236	E67	HEATER; OVERLOAD	23.5-25.5	23.5-25.5
HTR00241	E69	HEATER; OVERLOAD		
HTR00235	E66	HEATER;OVERLOAD	22.1-23.4	22.1-23.4
HTR00231	E44	HEATER;OVERLOAD	5.01-5.44	5.01-5.44
HTR00234	E57	HEATER;OVERLOAD	13.5-15.2	13.5-15.2
HTR00230	E55	HEATER;OVERLOAD	11.6-12.3	11.6-12.3
HTR00225	E51	HEATER; COIL STARTER, OVERLOAD, E-51, MAG STARTER	8.00-8.89	8.00-8.89

### Full Load Motor Amps-Table 215

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	Amps	
			60	100
HTR00240	E71	HEATER; OVERLOAD	33.3-36.6	37.0-40.6

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	Size	
			3,3 1/2	4(JB)
HTR00259	E-73A	HEATER;OVERLOAD	39.7-42.3	45.3-49.2

## Overload Relays

### Special Use Solid State Overloads, Class 958

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
KIT06535	49D57124NBX426	Adapter plate for replacing 948C through F styles with 958C through F styles solid state OLR.

**Contactors and Starters**

**Overload Relays**

**Thermal Overloads, Class 48**

*Ambient Compensated Bimetal (green reset)-Class 48 Single- Phase, Three-Phase*

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
RLY00596	48DC38AA4	RELAY; CONTROL, CURRENT, 30 AMP, 120V, MANUAL/AUTO RESET
RLY00653	48GC38AA4NB	RELAY; CONTROL, CURRENT, 60A, 120V, MANUAL/AUTO RESET

**Replacement Parts**

**Starters and Contactors – Contact Kits and Overload Relays**

*Contact Kits – Single Pole Stator and Movable Contacts, Contact Spring*

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	Size	No of Poles in Kit
KIT01236	751F14NBX462	Class 14, 17, 18, 2, 25, 26, 30, 32, 40, 43	31/2	1

**Siemens**

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
SWT02542	49SASB1	HAND-OFF-AUTO Selector Switch
CTR01168	42DF35AFAIJ	CONTACTOR; 50 FLA 3 POLE COIL VAC 110-120, 63 RES AMP, 50 FLA @ 600V
CTR01731	42BF15AFBKM	CONTACTOR; 2 POLE, 30 AMP, 110 VOLT
CTR01365	42BF35AJAVS	CONTACTOR; 30 FLA 3 POLE COIL VAC 24 COMPLETE W/BOX LUGS, 40 RES AMP
CTR01169	42DF35AGAIK	CONTACTOR; 50 FLA 3 POLE COIL VAC 208-240, 63 RES AMP, 50 FLA @ 600V
CTR01167	42DF35AJAII	CONTACTOR; 50 FLA 3 POLE COIL VAC 24, 63 RES AMP, 50 FLA @ 600V
CTR01166	42CF25AGAIH	CONTACTOR; 40 FLA 4 POLE COIL VAC 208-240, 50 RES AMP, 40 FLA @ 600V
CTR01164	42CF25AJAIF	CONTACTOR; 40 FLA 4 POLE COIL VAC 24, 50 RES AMP, 40 FLA @ 600V
CTR01159	42CF15AFAIA	CONTACTOR; 40 FLA 2 POLE COIL VAC 110-120, 50 RES AMP, 40 FLA @ 600V
CTR01142	42AF35AGAHV	CONTACTOR; 25 FLA 3 POLE COIL VAC 208-240V COIL, 35 RES AMP
CTR01141	42AF35AFAHU	CONTACTOR; 25 FLA 3 POLE COIL VAC 110-120V COIL, 35 RES AMP
CTR01140	42AF35AJHT	CONTACTOR; 3P NO 25FLA AT 600V, 24V COIL, 35 RES AMP
CTR01363	42AF35FAVQ	CONTACTOR; 25 FLA 3 POLE COIL VAC 110-120 COMPLETE W/BOX LUGS, 35 RES AMP
CTR01366	42BF35FAVVT	CONTACTOR; 30 FLA 3 POLE COIL VAC 110-120 COMPLETE W/BOX LUGS, 40 RES AMP
CTR01081	42DF35AFBNL	CONTACTOR; 3P, NO, 50A, 110-120CV
CTR01604	42DF35AFAXR	CONTACTOR; 3P NO 50 FLA @ 600V 50/60 HZ, 1-NC LEFT AUX SWITCH AND 2-SPDT RIGHT AUX SWITCHES
SWT00529	49CE42SPDTNB	SWITCH; (1)SPDT, 10A/250V COIL, 1 SPEED, SPDT
SWT00528	49D55042002NBX462	SWITCH; (2)SPDT, 10A/250V COIL, 2 SPEED, SPDT
SWT02575	49L100103	SWITCH; LEFT HAND AUXILIARY SWITCH FOR FURNAS CONTACTOR 42MB32AFD8
SWT02576	49L100102	SWITCH; RIGHT HAND AUXILIARY SWITCH FOR FURNAS CONTACTOR 42MB32AFD8

**Controls**

# Controls

## Contactors and Starters

### Siemens

#### Replacement Coils



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
COI00954	75D73070J	Replacement parts, ac coils, NEMA Size 00-2 1/2, 24 volts 60HZ, model F,P,S.
COI00955	75D73070A	Coil 60 Hz 110-120/220-240V
COI00959	75D73251A	Coil 60Hz 110-120/220-240V
COI00966	D72069031	Coil 60Hz 110-120/220-240V
COL03610	75D73251CNBX462	Coil 60Hz 220-240/440-480/60

#### Replacement Parts

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
CTR01931	49AB10	CONTACTOR; NEMA 00-4 AUXILIARY CONTACT, 1 NO
KIT06529	49ASNO	Auxiliary Contact Overload Kit
COL03607	75D54772GNBX462	COIL; 208-240/60, 190-220/50
COL03606	75D54772FNBX462	COIL; 110-120/60, 110/50
COL03609	75D73251ANBX462	COIL; 110-120/220-240/60, 110/190-220/50

## Solid-State Overload Relays And Field Modification Kits, Class 48

### Manual-Reset Class 20

Furnas ESP100 solid-state overload relays are self-powered, requiring no separate 120V source to power the circuit board. They provide phase loss protection, fewer connection points and high repeat-trip accuracy, which results in longer motor life and cost savings. ESP100 panel mounted overloads can be used to upgrade existing starter applications where panel mounted thermal overloads are used. In addition, ESP100 overloads can be panel mounted when used with other types of controllers, such as DP, IEC contactors, and soft starts. Features include: broadest line in the industry, Class 10 tripcurve, tripfree design, phase loss protection, 2% repeat-trip accuracy, manual- and self-reset versions, FLA adjustment dial with wide adjustment range, and heaterless design.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	FULL-LOAD AMP CURRENT	FRAME RANGE	PHASE SIZE
RLY02304	48ASA3M20	0.25-1	3	A
RLY02305	48ASB3M20	0.75-3	3	A
RLY02306	48ASD3M20	2.5-10	3	A
RLY02307	48ASE3M20	18-Sep	3	A1
RLY02308	48ASF3M20	13-27	3	A1
RLY02309	48ASG3M20	20-40	3	A1
RLY02310	48BSF3M20	13-27	3	B
RLY02311	48BSH3M20	22-45	3	B
RLY02312	48BSJ3M20	30-60	3	B
RLY02313	48BSK3M20	45-90	3	B
RLY02314	48BSL3M20	57-115	3	B
RLY02315	48BSM3M20	67-135	3	B
RLY02316	48BSN3M20	81-1622	3	B
RLY02317	48ASS3M20	100-2103	3	A
RLY02318	48ASU3M20	100-2703	3	A
RLY02322	48ASX3M20	200-5404	3	A

**Contactors and Starters**

**Solid-State Overload Relays And Field Modification Kits, Class 48**

Self-Reset Class 20

SERVICEFIRST ITEM NO	VENDOR ITEM NO	FULL-LOAD AMP CURRENT	FRAME1RANGE	PHASESIZE
RLY02366	48ARA3R20	0.25-1	3	A
RLY02367	48ARB3R20	0.75-3	3	A
RLY02368	48ARD3R20	2.5-10	3	A
RLY02369	48ARE3R20	18-Sep	3	A1
RLY02370	48ARF3R20	13-27	3	A1
RLY02371	48ARG3R20	20-40	3	A1
RLY02372	48BRF3R20	13-27	3	B
RLY02373	48BRH3R20	22-45	3	B
RLY02374	48BRJ3R20	30-60	3	B
RLY02375	48BRK3R20	45-90	3	B
RLY02376	48BRL3R20	57-115	3	B
RLY02377	48BRM3R20	67-135	3	B
RLY02378	48BRN3R20	81-1622	3	B

**Special Purpose Controls**

**Definite Purpose Contactors**

Class 42



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
CTR00535	42FE35AF106NBX462	CONTACTOR;75 AMP,3 POLE, 110-120 V COIL
CTR00536	42FE35AG106NBX462	CONTACTOR;75 AMP,3 POLE, 208-240V COIL

**Fuses**

**5mm x 20mm Fuses**

GMA Series, Fast Acting, Glass Tube

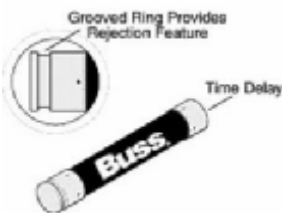


- Fast acting, low breaking capacity
- Optional axial leads available
- 5mm x 20mm physical size
- Glass tube, nickel-plated brass endcap construction
- Designed to UL/CSA 248-14
- RoHS Compliant version available (-R option)

**SPECIFICATIONS**

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Voltage Rating AC	AC Interrupting Rating*		Typical		
			250V	125V	DC Cold Resistance (ohms)**	Pre-Arc I2t AC†	Maximum Voltage Drop (mV)‡
FUS01730	GMA-250mA	250V	35A	10,000A		0.018	2200
FUS01332	GMA-2.5A	250V	100A	10,000A	0.046	4.9	240
FUS01331	GMA-2A	250V	100A	10,000A	0.066	3.1	250
FUS01722	GMA-3A	250V	100A	10,000A	0.039	8.8	215

**60 amp, 15 amp - 600 Volt Dual Element Time Delay Cartridge Fuse**



A general purpose 60 amp, 600 Volt AC, UL listed, time-delay, current-limiting, cartridge fuse with rejection feature is used in residential and light-duty motor protection. It passes motor overload starting currents without needlessly opening.

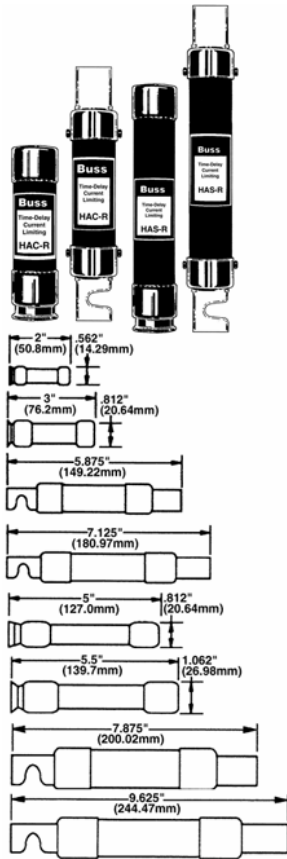
SERVICEFIRST ITEM NO	VENDOR ITEM NO
FUS01638	HAS-R-60
FUS01641	HAS-R-15

Controls

# Controls

## Fuses

### Bussman H Series Fuses



The Fusetron® fuse (FRN-R and FRS-R) has long been the standard for industrial application. It is designed and built to protect industrial equipment and large motors with critical time/current requirements. The H series (HAC-R and HAS-R) are specially designed to protect commercial and residential heating/air conditioning and refrigeration equipment.

SERVICEFIRST ITEM NO	250 VOLT RATINGS	CARTON PACK
FUS01021	HAC-R-3 2/10	10
FUS01022	HAC-R-5	10
FUS01023	HAC-R-6 1/4	10
FUS01024	HAC-R-10	10
FUS01025	HAC-R-15	10
FUS01026	HAC-R-20	10
FUS01027	HAC-R-25	10
FUS01028	HAC-R-30	10
FUS01029	HAC-R-35	10
FUS01030	HAC-R-40	10
FUS01031	HAC-R-45	10
FUS01032	HAC-R-50	10
FUS01033	HAC-R-60	10
FUS01034	HAC-R-70	5
FUS01035	HAC-R-80	5
FUS01036	HAC-R-100	5
FUS01037	HAC-R-125	1
FUS01038	HAC-R-200	1
FUS01039	HAS-R-10	10
FUS01041	HAS-R-17 1/2	10
FUS01042	HAS-R-20	10
FUS01043	HAS-R-25	10
FUS01044	HAS-R-30	10
FUS01045	HAS-R-35	10
FUS01046	HAS-R-40	10
FUS01047	HAS-R-45	10
FUS01048	HAS-R-50	10
FUS01050	HAS-R-70	1
FUS01051	HAS-R-80	1
FUS01052	HAS-R-90	1
FUS01053	HAS-R-100	1
FUS01054	HAS-R-125	1
FUS01055	HAS-R-150	1
FUS01351	HAS-R-200	1

SERVICEFIRST ITEM NO	VENDOR CAT NO	QTY	SIZE	CU IN	WT (LB)
FUS01021-FUS01028	HAC-R-32/10 thru 30	10	3" x 2 1/4" x 1 1/4"	8.4	0.4
FUS01029-FUS01033	HAC-R-35 thru 60	10	4 1/4" x 3 1/4" x 3/34"	51.8	1
FUS01034-FUS01036	HAC-R-70 thru 100	5	5 3/4" x 1 1/4" x 6/38"	45.8	1.5
FUS01037-FUS01038	HAC-R-125 thru 200	1	7 1/2" x 2" x 2"	30	0.77
FUS01039-FUS01044	HAS-R-10 thru 30	10	4 1/8" x 1 5/8" x 5 1/8"	34.4	1.5
FUS01045-FUS01049	HAS-R-35 thru 60	10	5 3/4" x 5 1/2" x 1 1/8"	67.2	3.1
FUS01050-FUS01053	HAS-R-70 thru 100	1	13/8" x 13/8" x 8"	15.1	0.6
FUS01054-FUS01351	HAS-R-125 thru 200	1	2" x 2" x 9/8"	39.5	1.2
FUS00762-FUS00765					



Fuses

Electronic — PCB & Small Dimension Fuses

1/4" Dia. x 1 1/4" length fast-acting ferrule fuses

ABC



Features and Benefits

- Ceramic body allows for higher amp/volt rating combinations.
- Consolidate inventory by replacing AGC fuses for reduced SKU investment and minimizing potential for misapplying fuse.

Typical Applications

- Electronic Circuits

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	Volts	Amps	Dimensions
FUS01305	ABC-5	Fastacting fuse.	250Vac/125Vdc	5	1/4" x 1 1/4"(6.4 x 31.7mm).
FUS01310	ABC-6	Fastacting fuse.	250Vac/125Vdc	6	1/4" x 1 1/4"(6.4 x 31.7mm).
FUS01309	ABC-8	Fastacting fuse.	250Vac/125Vdc	8	1/4" x 1 1/4"(6.4 x 31.7mm).
FUS01308	ABC-10	Fastacting fuse.	250Vac/125Vdc	10	1/4" x 1 1/4"(6.4 x 31.7mm).
FUS01307	ABC-12	Fastacting fuse.	250Vac/125Vdc	12	1/4" x 1 1/4"(6.4 x 31.7mm).
FUS01315	ABC-15	Fastacting fuse.	250Vac/125Vdc	15	1/4" x 1 1/4"(6.4 x 31.7mm).
FUS01731	ABC-20	Fastacting fuse.	250Vac/125Vdc	20	1/4" x 1 1/4"(6.4 x 31.7mm).

AGC



Features and Benefits

- Original electronic glass tube fuse.
- Fast-acting for maximum protection.
- Wide amp/volt ratings allow versatility of protecting electronic circuits.

Typical Applications

- Electronic Circuits

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	Volts	Amps	Dimensions
FUS01491	AGC 1/100	Fast-Acting Glass Fuse	250Vac	1/100	1/4" x 1 1/4"(6.4 x 31.7mm).
FUS01683	AGC-1/10	Fast-acting fuse.	250Vac	10-Jan	1/4" x 1 1/4"(6.4 x 31.7mm).
FUS01316	AGC-1/2	Fast-acting fuse.	250Vac	1/2	1/4" x 1 1/4"(6.4 x 31.7mm).
FUS01317	AGC-3/4	Fast-acting fuse.	250Vac	3/4	1/4" x 1 1/4"(6.4 x 31.7mm).
FUS01358	AGC-1	Fast-acting fuse.	250Vac	1	1/4" x 1 1/4"(6.4 x 31.7mm).
FUS01304	AGC-2	Fast-acting fuse.	250Vac	2	1/4" x 1 1/4"(6.4 x 31.7mm).
FUS01318	AGC-3	Fast-acting fuse.	250Vac	3	1/4" x 1 1/4"(6.4 x 31.7mm).
FUS01492	AGC-3-2/10	Fast-Acting Glass Fuse	250Vac	3/2/2010	1/4" x 1 1/4"(6.4 x 31.7mm).
FUS01363	AGC3-1/2	Fast-Acting Glass Fuse	250Vac	3/1/2002	1/4" x 1 1/4"(6.4 x 31.7mm).
FUS01528	AGC-4	Fast-acting fuse.	250Vac	4	1/4" x 1 1/4"(6.4 x 31.7mm).
FUS01529	AGC-5	Fast-Acting Glass Fuse	250Vac	5	1/4" x 1 1/4"(6.4 x 31.7mm).
FUS01364	AGC-6	Fast-acting fuse.	250Vac	6	1/4" x 1 1/4"(6.4 x 31.7mm).
FUS00608	AGC-8	Fast-acting fuse.	250Vac	8	1/4" x 1 1/4"(6.4 x 31.7mm).
FUS01540	AGC-10	Fast-acting fuse.	250Vac	10	1/4" x 1 1/4"(6.4 x 31.7mm).
FUS01368	AGC-15	Fast-acting fuse.	250Vac	15	1/4" x 1 1/4"(6.4 x 31.7mm).

# Controls

## Fuses

### Electronic — PCB & Small Dimension Fuses

#### 1/4" Dia. x 1 1/4" length fast-acting ferrule fuses

AGC-V (axial leads)

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	Volts	Amps	Dimensions
FUS01579	AGC-V-1/16	Fast-acting fuse.	250Vac	16-Jan	1/4" x 1 1/4"(6.4 x 31.7mm).

#### 1/4" Dia. x 1 1/4" length time-delay ferrule fuses

MDA



#### Features and Benefits

- Ceramic body allows for higher amp/volt rating combinations.
- Inventory consolidation by replacing MDL fuses allows for reduced SKU investment and minimizing potential for misapplying fuse.

#### Typical Applications

- Electronic Circuits

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	Volts	Amps	Dimensions
FUS01306	MDA-7	Timedelay fuse.	250Vac (or less)	7	1/4" x 1 1/4"(6.4 x 31.7mm).
FUS01321	MDA-12	Timedelay fuse.	250Vac (or less)	12	1/4" x 1 1/4"(6.4 x 31.7mm).
FUS01319	MDA-20	Timedelay fuse.	250Vac (or less)	20	1/4" x 1 1/4"(6.4 x 31.7mm).

MDL



#### Features and Benefits

- Time-delay allows close sizing on inductive circuits.
- Broad amp size range allows improved compatibility between fuse and circuit operating characteristics.

#### Typical Applications

- Electronic Circuits

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	Volts	Amps	Dimensions
FUS01320	MDL-1/2	Time-Delay Glass Fuse	250Vac	1/2	
FUS00207	MDL-1	Time delay fuse.	250Vac	2-Jan	1/4" x 1 1/4"(6.4 x 31.7mm).
FUS01256	MDL-1 1/4	Time delay fuse.	250Vac	1/1/2004	1/4" x 1 1/4"(6.4 x 31.7mm).
FUS00911	MDL-2	Time delay fuse.	250Vac	2	1/4" x 1 1/4"(6.4 x 31.7mm).
FUS01334	MDL-3	Time delay fuse.	250Vac	3	1/4" x 1 1/4"(6.4 x 31.7mm).
FUS01325	MDL-3-2/10	Time Delay Fuse	250Vac	3/2/2010	1/4" x 1 1/4"(6.4 x 31.7mm).
FUS00657	MDL-4	Time delay fuse.	250Vac	4	1/4" x 1 1/4"(6.4 x 31.7mm).
FUS01323	MDL-5	Time delay fuse.	250Vac	5	1/4" x 1 1/4"(6.4 x 31.7mm).
FUS01401	MDL 6	Time delay fuse.	250Vac	6	1/4" x 1 1/4"(6.4 x 31.7mm).
FUS01324	MDL-7	Time delay fuse.	250Vac	7	1/4" x 1 1/4"(6.4 x 31.7mm).

MDQ



#### Features and Benefits

- Dual-element design allows closer sizing to inductive circuits than any other fuses.

#### Typical Applications

- Electronic Relay and Control Circuits

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	Volts	Amps	Dimensions
FUS01087	MDQ-5	Dual-element,time-d elay fuse.	250Vac	5	1/4" x 1 1/4"(6.4 x 31.7mm).

**Fuses**

**Electronic — PCB & Small Dimension Fuses**

**5 x 20mm North American (UL) ferrule fuses**



**Features and Benefits**

- Conforming to UL standards.

**Typical Applications**

- Electronic Circuits

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	Volts	Amps	Dimensions
FUS01607	GMC-3A	Medium time-delay fuse.	250Vac	3	5 x 20mm(0.197" x 0.788").
FUS01545	GMC-6A	Medium time-delay fuse.	250Vac	6	5 x 20mm(0.197" x 0.788").
FUS00691	GMC-200mA	Medium time-delay fuse.	250Vac	200mA	5 x 20mm(0.197" x 0.788").
FUS00692	GMC-250mA	Medium time-delay fuse.	250Vac	250mA	5 x 20mm(0.197" x 0.788").
FUS00693	GMC-300mA	Medium time-delay fuse.	250Vac	300mA	5 x 20mm(0.197" x 0.788").

**FNQ Power Ferrule Fuse (500 Volt) Time Delay**

FNQ type fuses are ideal for motor control transformers and other circuits within rush currents. Dual element to 3 2/10 amps; single element above 3 2/10 amps.

SERVICEFIRST ITEM NO	FUSE TYPE	CARTON PACK
FUS00485	FNQ-1/4	10
FUS00490	FNQ-8/10	10
FUS00491	FNQ-1	10
FUS00492	FNQ-1 1/8	10
FUS00493	FNQ-1 1/4	10
FUS00495	FNQ-1 6/10	10
FUS00496	FNQ-2	10
FUS00499	FNQ-3	10
FUS00500	FNQ-3 2/10	10
FUS00501	FNQ-3 1/2	10
FUS00502	FNQ-4	10
FUS00503	FNQ-4 1/2	10
FUS00504	FNQ-5	10
FUS00506	FNQ-6	10
FUS00509	FNQ-8	10

# Controls

## Fuses

### FRN-R Fusetron Fuses 250 Volt Ac

#### Dual-Element Time-Delay

Unlike the single-element fuses, the dual-element fuse can be applied in circuits subject to temporary motor overloads and surge currents to provide both high-performance short circuit and overload protection. Oversizing in order to prevent nuisance opening is not necessary.

SERVICEFIRST ITEM NO	250 VOLT RATINGS	CARTON PACK
FUS00316	FRN-R-1	10
FUS00323	FRN-R-2	10
FUS00325	FRN-R-2 1/2	10
FUS00328	FRN-R-3 2/10	10
FUS00329	FRN-R-3 1/2	10
FUS00332	FRN-R-5	10
FUS00038	FRN-R-8	10
FUS00340	FRN-R-10	10
FUS00341	FRN-R-12	10
FUS00342	FRN-R-15	10
FUS00344	FRN-R-20	10
FUS00345	FRN-R-25	10
FUS00346	FRN-R-30	10
FUS00347	FRN-R-35	10
FUS00348	FRN-R-40	10
FUS00349	FRN-R-45	10
FUS00350	FRN-R-50	10
FUS00351	FRN-R-60	10
FUS00354	FRN-R-80	5
FUS00356	FRN-R-100	5
FUS00358	FRN-R-125	1
FUS01245	FRN-R-150	1
FUS00361	FRN-R-200	1

## Fuse Holders and Blocks

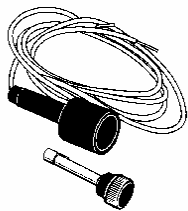
### Class CC, Type M and Class G fuse blocks

#### BC Series



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	Volts	Amps	Withstand
BLK01023	BC6032P	Class CC fuse blocks for use with Class CC fuses (Cooper Bussmann LP-CC, KTK-R, and FNQ-R).	600V	1/10-30A	200,000A RMS Sym.
HLD00128	BC6033P	Class CC fuse blocks for use with Class CC fuses (Cooper Bussmann LP-CC, KTK-R, and FNQ-R).	600V	1/10-30A	200,000A RMS Sym.

## Fuse Holders



SERVICEFIRST ITEM NO	VENDOR ITEM NO	CTN/QTY	DESCRIPTION
HLD00068	HKP	10	For use with 1/4 x 1 1/4 fuses to 30 amp 250 volt. Solder connections
HLD00070	HKP-HH	10	For use with 1/4 x 1 1/4 fuses to 15 amp 250 V. 1/4 quickconnects
HLD00075	HPF-FF	10	For use with type SC-25 and 30 amp 300 volt, 1 5/8 long fuse
HLD00076	HPF-RR	10	For use with type KTK-R 30 amp 600 volt fuse
HLD00079	HLQ-3 2/10	10	For use with type GLQ-2 to 3 amp and type GMQ-2 to 3 2/10 amp fuses

## Fuses

### Fuse Holders and Blocks

#### Class J (finger-safe) fuse holders

Safety J™ — JT(N)60030 & JT(N)60060



30 Amp Version 50 Amp Version

**Features and Benefits**

- Short Circuit Current Rating of 300,000A with Cooper Bussmann LPJ \_\_\_ SP fuses.
- Rapid, flexible 35 mm DIN rail mounting.
- One piece interlocking design for assembling multiple pole blocks reduces inventory costs.
- Removable fuse carrier allows fuse replacement away from base while maintaining finger-safe rating.

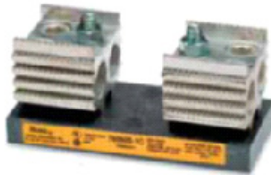
**Typical Applications**

- Industrial Controls
- Process Controls
- Small HP VFDs

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Volts	Amps	Withstand
HLD00240	JT60030	600V	0-30A (JT(N)60030)	200,000A RMS Sym.

#### Class T fuse blocks – 600V

T600



**Features and Benefits**

- Provide 1-, 2- and 3-pole housing for 600Vac Class T fuses.
- Short Circuit Current Rating of 200,000A RMS Sym.
- Class T fuse blocks have a small foot print, providing substantial space savings in equipment

**Typical Applications**

- 600V or less Control Systems
- 600V or less Individual Control Circuits

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	Volts	Amps	Withstand
BLK00374	T60060-3CR	T600 (600V) fuse blocks for use with Class T fuses (Cooper Bussmann JJS).	600V	1/2 - 600A	200,000A RMS Sym.

#### In-line fuse holders for 1/4" x 7/8" to 1 1/4" fuses

HRK



**Features and Benefits**

- HRK Universal in-line fuse holder for 1/4" x 7/8", 1" and 1 1/4" fuses with #14 lead wires.

**Typical Applications**

- Supplemental, Low Voltage, Low Amperage Control Circuits

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	Volts	Amps
HLD00302	HRK*	1/4" diameter fuses of different lengths.	32V	15A

#### Panel mounted fuse holders for 13/32" x 1 5/16" to 1 1/2" fuses

HPF



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	Volts	Amps
HLD00298	HPF-EE	Standard fuse holders with screw-type knob for 13/32" x 1 5/16" to 1 1/2" Fuses.	600V	15A

HPS



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	Volts	Amps
HLD00042	HPS	Standard fuse holders with bayonet-type knob for 13/32" x 1 5/16" to 1 1/2" fuses.	600	30(3)(4)

# Controls

## Fuses

### FWP 700V

#### 5-1200A

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Rated Current RMS-Amps	I2t (A2 Sec)Pre-arc	I2t (A2 Sec)Clearing at 700V	Carton Qty	Carton Weight (lbs)
FUS01091	FWP1000A	1000	120000	600000	1	6.6

## GLO/GMQ In-Line Fuses (300 Volt Ac)

### GLQ In-Line Fuses Non Time-Delay

Fuse and fuse holder knob are an integral, one-piece unit. The size of fuse varies with amp ratings. Mounts in type HLQ size rejection holder, which prevents overfusing.

SERVICEFIRST ITEM NO	FUSE TYPE	CARTON PACK
FUS00453	GLQ-1	5
FUS00454	GLQ-1 1/2	5
FUS00455	GLQ-1 6/10	5
FUS00458	GLQ-3	5
FUS00460	GLQ-5	5
FUS00465	GLQ-10	5

## Low Voltage Supplementary Fuses

### 13/32" x 1 1/2" Time-delay fuses

#### FNM



#### Features and Benefits

- Low cost supplemental protection of 125V and 250V inductive circuits.

#### Typical Applications

- General Purpose Circuits
- Lighting Circuit Protection
- Meter Circuits
- Upgrading to LP-CC product will reduce SKU investment and minimize potential for misapplying fuse.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	Volts	Amps	Dimensions
FUS01650	FNM-1-1/4	Time-delay supplementary fuse.	250Vac (or less)	1/1/2004	13/32" x 1 1/2"(10.3 x 38.1mm).
FUS00674	FNM-2	Time-delay supplementary fuse.	250Vac (or less)	2	13/32" x 1 1/2"(10.3 x 38.1mm).
FUS01554	FNM-5	Time-delay supplementary fuse.	250Vac (or less)	5	13/32" x 1 1/2"(10.3 x 38.1mm).
FUS00039	FNM-10	Time-delay supplementary fuse.	250Vac (or less)	10	13/32" x 1 1/2"(10.3 x 38.1mm).
FUS01649	FNM-12	Time-delay supplementary fuse.	250Vac (or less)	12	13/32" x 1 1/2"(10.3 x 38.1mm).
FUS01397	FNM 15	Time-delay supplementary fuse.	250Vac (or less)	15	13/32" x 1 1/2"(10.3 x 38.1mm).
FUS01398	FNM 20	Time-delay supplementary fuse.	250Vac (or less)	20	13/32" x 1 1/2"(10.3 x 38.1mm).

Fuses

Low Voltage Supplementary Fuses

13/32" x 1 1/2" Time-delay fuses

FNQ



**Features and Benefits**

- Low cost supplemental protection of transformers and relays at 500V or less.

**Typical Applications**

- Control Transformer 480V Primary Protection
- Lighting Circuit Protection
- Meter Circuits

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	Volts	Amps	Dimensions
FUS00511	FNQ-10	Time-delay supplementary fuse.	500Vac (or less)	10	13/32" x 1 1/2(10.3 x 38.1mm).
FUS00665	FNQ-12	Time-delay supplementary fuse.	500Vac (or less)	12	13/32" x 1 1/2(10.3 x 38.1mm).
FUS00879	FNQ-15	Time-delay supplementary fuse.	500Vac (or less)	15	13/32" x 1 1/2(10.3 x 38.1mm).
FUS01282	FNQ-20	Time-delay supplementary fuse.	500Vac (or less)	20	13/32" x 1 1/2(10.3 x 38.1mm).
FUS00880	FNQ-30	Time-delay supplementary fuse.	500Vac (or less)	30	13/32" x 1 1/2(10.3 x 38.1mm).

KTK & KLM



**Features and Benefits**

- Low cost supplemental protection of 600V or less non-inductive circuits.
- Upgrade with LP-CC product to reduce SKU investment and minimize potential arc-flash hazards.

**Typical Applications**

- Control Circuits
- Lighting Circuit Protection
- Meter Circuits

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	Volts	Amps	Dimensions
FUS01061	KTK-3	Fastacting supplementary fuse.	KTK: 600Vac(or less)	3	13/32" x 1 1/2(10.3 x 38.1mm).
FUS00074	KTK-5	Fastacting supplementary fuse.	KTK: 600Vac(or less)	5	13/32" x 1 1/2(10.3 x 38.1mm).
FUS00279	KTK-20	Fastacting supplementary fuse.	KTK: 600Vac(or less)	20	13/32" x 1 1/2(10.3 x 38.1mm).

Automotive blade-type fuses

ATC® Blade-type fuse



**Features and Benefits**

- Color coded plastic housing for easy identification of fuse ratings

**Typical Applications**

- Automotive

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	Volts	Amps
FUS01349	ATC-3	Fast-acting blade fuse.	32Vdc	3
FUS01313	ATC-5	Fast-acting blade fuse.	32Vdc	5
FUS01536	ATC-10	Fast-acting blade fuse.	32Vdc	10
FUS01381	ATC-15	Fast-acting blade fuse.	32Vdc	15
FUS01537	ATC-20	Fast-acting blade fuse.	32Vdc	20
FUS01538	ATC-25	Fast-acting blade fuse.	32Vdc	25
FUS01382	ATC-30	Fast-acting blade fuse.	32Vdc	30

# Controls

## Fuses

### Low Voltage Supplementary Fuses

In-line size rejecting fuses and fuse holders

GLQ



**Features and Benefits**

- In-Line, fast acting circuit protection.
- Rejection feature prevents overfusing.

**Typical Applications**

- In-line Lighting Ballast Protection

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	Volts	Amps
HLD00066	HLQ-3-2/10	Fast-acting, size-rejecting in-line fuse.	300Vac (or less)	3/2/2010

GMQ



**Features and Benefits**

- In-line, fast-acting circuit protection.
- Rejection feature prevents overfusing.

**Typical Applications**

- In-Line Lighting Ballast Protection

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	Volts	Amps
FUS00473	GMQ-2-1/2	Time-delay, size-rejecting in-line fuse.	300Vac (or less)	2/1/2002
FUS00475	GMQ-3	Time-delay, size-rejecting in-line fuse.	300Vac (or less)	3
FUS00476	GMQ-3-2/10	Time-delay, size-rejecting in-line fuse.	300Vac (or less)	3/2/2010
FUS00478	GMQ-5	Specialty Time-Delay Fuse, Rejecting Style Carriers	300Vac (or less)	5
FUS00479	GMQ-6-1/4	Time-delay, size-rejecting in-line fuse.	300Vac (or less)	6/1/2004



## Low Voltage, Branch Circuit Rated Fuses

### CC-Tron® rejection-type fuses

#### FNQ-R Class CC



#### Features and Benefits

- Time delay compatible with inrush characteristic of small control transformers.
- Current limitation at Class CC levels provides maximum component short-circuit current rating protection.
- 200,000A interrupting rating provides high ratings for control circuit locations.
- Class CC rejection feature, with appropriate fuse block, prevents inserting lesser-rated supplementary fuses.

#### Typical Applications

- Specialized Circuits
- Industrial Control
- Isolated, In-Line Fuse Holders
- Line Protection, Small Control Transformers

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	Volts	Amps	Dimensions
FUS01488	FNQ-R-1/2	Time-delay, branch circuit,rejection-type fuse.	600Vac (or less)	2-Jan	13/32" x 1 1/2"(10.3 x 38.1mm).
FUS01302	FNQ-R-6/10	Time-delay, branch circuit,rejection-type fuse.	600Vac (or less)	10-Jun	13/32" x 1 1/2"(10.3 x 38.1mm).
FUS01285	FNQ-R-1	Time-delay, branch circuit,rejection-type fuse.	600Vac (or less)	1	13/32" x 1 1/2"(10.3 x 38.1mm).
FUS01340	FNQ-R-1 1/4	Time-delay, branch circuit,rejection-type fuse.	600Vac (or less)	1/1/2004	13/32" x 1 1/2"(10.3 x 38.1mm).
FUS01300	FNQ-R-1 1/2	Time-delay, branch circuit,rejection-type fuse.	600Vac (or less)	1/1/2002	13/32" x 1 1/2"(10.3 x 38.1mm).
FUS01253	FNQ-R-3 2/10	Time-delay, branch circuit,rejection-type fuse.	600Vac (or less)	3/2/2010	13/32" x 1 1/2"(10.3 x 38.1mm).
FUS01086	FNQ-R-3 1/2	Time-delay, branch circuit,rejection-type fuse.	600Vac (or less)	3/1/2002	13/32" x 1 1/2"(10.3 x 38.1mm).
FUS01301	FNQ-R 1 6/10	Time-delay, branch circuit,rejection-type fuse.	600Vac (or less)	1/6/2010	13/32" x 1 1/2"(10.3 x 38.1mm).
FUS01288	FNQ-R-1-8/10	Time-delay, branch circuit,rejection-type fuse.	600Vac (or less)	1/8/2010	13/32" x 1 1/2"(10.3 x 38.1mm).
FUS01289	FNQ-R-2 1/4	Time-delay, branch circuit,rejection-type fuse.	600Vac (or less)	2/1/2004	13/32" x 1 1/2"(10.3 x 38.1mm).
FUS01290	FNQ-R-2-1/2	Time-Delay, Rejection Type Branch Circuit Fuse Class CC	600V AC or less	2/1/2002	13/32" x 1 1/2"(10.3mm x 38.1mm)
FUS00926	FNQ-R-3	Time-delay, branch circuit,rejection-type fuse.	600Vac (or less)	3	13/32" x 1 1/2"(10.3 x 38.1mm).
FUS00902	FNQ-R-5	Time-delay, branch circuit,rejection-type fuse.	600Vac (or less)	5	13/32" x 1 1/2"(10.3 x 38.1mm).
FUS01416	FNQ-R-6	Time-delay, branch circuit,rejection-type fuse.	600Vac (or less)	6	13/32" x 1 1/2"(10.3 x 38.1mm).
FUS01510	FNQ-R6-1/4	Time-delay, branch circuit,rejection-type fuse.	600Vac (or less)	6/1/2004	13/32" x 1 1/2"(10.3 x 38.1mm).
FUS01303	FNQ-R-7	Time-delay, branch circuit,rejection-type fuse.	600Vac (or less)	7	13/32" x 1 1/2"(10.3 x 38.1mm).
FUS01511	FNQ-R-9	Time-delay, branch circuit,rejection-type fuse.	600Vac (or less)	9	13/32" x 1 1/2"(10.3 x 38.1mm).
FUS01386	FNQ-R-10	Time-delay, branch circuit,rejection-type fuse.	600Vac (or less)	10	13/32" x 1 1/2"(10.3 x 38.1mm).
FUS01284	FNQ-R-15	Time-delay, branch circuit,rejection-type fuse.	600Vac (or less)	15	13/32" x 1 1/2"(10.3 x 38.1mm).

# Controls

## Fuses

### Low Voltage, Branch Circuit Rated Fuses

#### CC-Tron® rejection-type fuses

FNQ-R Class CC

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	Volts	Amps	Dimensions
FUS01282	FNQ-R-20	Time-delay, branch circuit, rejection-type fuse.	600Vac (or less)	20	13/32" x 1 1/2" (10.3 x 38.1mm).
FUS01355	FNQ-R-25	Time-delay, branch circuit, rejection-type fuse.	600Vac (or less)	25	13/32" x 1 1/2" (10.3 x 38.1mm).

#### Fusetron® dual-element, time-delay fuses

FRS-R (600V) Class RK5



##### Features and Benefits

- 2:1 selective coordination ratio (within RK5 fuse family) prevents electrical shutdowns from extending beyond the failed circuit.
- Insulated end caps for 70-600A fuses reduces exposure to live parts and extends air gap to distance between blades of adjacent mounted fuses or to housing.

##### Typical Applications

- Power Panelboards
- Motor Control Centers
- Combination Starters
- Machinery Disconnects

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	Volts	Amps
FUS01202	FRS-R-1 1/2	Dual-element, time-delay fuse – 10 seconds (minimum) at 500% rated amps.	600Vac (or less)	1/1/2002
FUS00386	FRS-R-2	Dual-element, time-delay fuse – 10 seconds (minimum) at 500% rated amps.	600Vac (or less)	2
FUS00392	FRS-R-3-1/2	Fusetron, Dual-Element, Time-Delay Class RK5 Fuse	600Vac (or less)	3-1/2
FUS00393	FRS-R-4	Dual-element, time-delay fuse – 10 seconds (minimum) at 500% rated amps.	600Vac (or less)	4
FUS00399	FRS-R-7	Dual-element, time-delay fuse – 10 seconds (minimum) at 500% rated amps.	600Vac (or less)	7
FUS00403	FRS-R-10	Dual-element, time-delay fuse – 10 seconds (minimum) at 500% rated amps.	600Vac (or less)	10
FUS00404	FRS-R-12	Dual-element, time-delay fuse – 10 seconds (minimum) at 500% rated amps.	600Vac (or less)	12
FUS01637	FRS-R-15	Dual-element, time-delay fuse – 10 seconds (minimum) at 500% rated amps.	600Vac (or less)	15
FUS00407	FRS-R-20	Dual-element, time-delay fuse – 10 seconds (minimum) at 500% rated amps.	600Vac (or less)	20
FUS00408	FRS-R-25	Dual-element, time-delay fuse – 10 seconds (minimum) at 500% rated amps.	600Vac (or less)	25
FUS01642	FRS-R-30	Dual-element, time-delay fuse – 10 seconds (minimum) at 500% rated amps.	600Vac (or less)	30
FUS00192	FRS-R-35	Dual-element, time-delay fuse – 10 seconds (minimum) at 500% rated amps.	600Vac (or less)	35
FUS00411	FRS-R-40	Dual-element, time-delay fuse – 10 seconds (minimum) at 500% rated amps.	600Vac (or less)	40
FUS00570	FRS-R-45	Dual-element, time-delay fuse – 10 seconds (minimum) at 500% rated amps.	600Vac (or less)	45
FUS00413	FRS-R-50	Dual-element, time-delay fuse – 10 seconds (minimum) at 500% rated amps.	600Vac (or less)	50
FUS00414	FRS-R-60	Dual-element, time-delay fuse – 10 seconds (minimum) at 500% rated amps.	600Vac (or less)	60
FUS00415	FRS-R-70	Dual-element, time-delay fuse – 10 seconds (minimum) at 500% rated amps.	600Vac (or less)	70
FUS00417	FRS-R-80	Fusetron, Dual-Element, Time-Delay Class RK5 Fuse	600Vac (or less)	80
FUS00922	FRS-R-90	Dual-element, time-delay fuse – 10 seconds (minimum) at 500% rated amps.	600Vac (or less)	90
FUS00419	FRS-R-100*	Dual-element, time-delay fuse – 10 seconds (minimum) at 500% rated amps.	600Vac (or less)	100

Fuses

Low Voltage, Branch Circuit Rated Fuses

Limitron® fast-acting fuses

JKS Class J



Features and Benefits

- Current limitation for non-inductive circuits provides Class J current-limiting response to maximum ground fault and short-circuit conditions.
- 200,000A interrupting rating provides high ratings at all circuit locations.
- Economical solutions for high-fault circuits.

Typical Applications

- Power Panelboards
- Machinery Disconnects

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	Volts	Amps	Dimensions - in (mm)	
					A	B
FUS00572	JKS-3	Fast-acting, current-limiting fuse.	600Vac(or less)	3	2.25 (57.2)	0.81 (20.6)
FUS01277	JKS-12	Fast-acting, current-limiting fuse.	600Vac(or less)	12	2.25 (57.2)	0.81 (20.6)
FUS00574	JKS-15	Fast-acting, current-limiting fuse.	600Vac(or less)	15	2.25 (57.2)	0.81 (20.6)
FUS01275	JKS-40	Fast-acting, current-limiting fuse.	600Vac(or less)	40	2.38 (60.3)	1.06 (27.0)
FUS00916	JKS-60	Fast-acting, current-limiting fuse.	600Vac(or less)	60	2.38 (60.3)	1.06 (27.0)
FUS01276	JKS-70	Limitron, Quick Acting Class J Fuse	600Vac(or less)	70	2.38 (60.3)	1.06 (27.0)
FUS01452	JKS-80	Fast-acting, branch circuit,rejection-type fuse.	600Vac(or less)	80	2.38 (60.3)	1.06 (27.0)

Limitron® rejection-type fuses

KTK-R Class CC



Features and Benefits

- Current limitation at Class CC levels provides maximum component short-circuit current rating protection.
- 200,000A interrupting rating provides high ratings for control circuit locations.
- Class CC rejection feature, with appropriate fuse block, prevents inserting lesser-rated supplementary fuses.

Typical Applications

- Specialized Circuits
- Industrial Control
- Isolated, In-Line Fuse Holders (street lighting)

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	Volts	Amps	Dimensions
FUS01061	KTK-R-3	Fast-acting, branch circuit,rejection-type fuse.	600Vac (or less)	3	13/32" x 1 1/2"(10.3 x 38.1mm).
FUS01283	KTK-R-8	Fast-acting, branch circuit,rejection-type fuse.	600Vac (or less)	8	13/32" x 1 1/2"(10.3 x 38.1mm).
FUS01415	KTK-R-10	Fast-acting, branch circuit,rejection-type fuse.	600Vac (or less)	10	13/32" x 1 1/2"(10.3 x 38.1mm).
FUS01486	KTK-R-12	Fast-acting, branch circuit,rejection-type fuse.	600Vac (or less)	12	13/32" x 1 1/2"(10.3 x 38.1mm).
FUS00984	KTK-R-20	Fast-acting, branch circuit,rejection-type fuse.	600Vac (or less)	20	13/32" x 1 1/2"(10.3 x 38.1mm).
FUS00983	KTK-R25	Fast-acting, branch circuit,rejection-type fuse.	600Vac (or less)	25	13/32" x 1 1/2"(10.3 x 38.1mm).
FUS01010	KTK-R30	Fast-acting, branch circuit,rejection-type fuse.	600Vac (or less)	30	13/32" x 1 1/2"(10.3 x 38.1mm).

# Controls

## Fuses

### Low Voltage, Branch Circuit Rated Fuses

#### Low-Peak® dual-element, time-delay fuses

##### LPJ\_SP Class J



#### Features and Benefits

- Separate overload and short-circuit elements provide time delay for sizing of high inrush loads linked with Class J current limitation.
- Selective coordination ratio of 2:1 (within Low-Peak fuse family) prevents electrical shutdowns from extending beyond the failed circuit.
- Series combination ratings with branch circuit breakers allows broad range of coverage, independent of breaker manufacturer.

#### Typical Applications

- Power Panelboards
- Branch Circuit Breaker Panelboard Mains
- Machinery Disconnects
- Industrial Control

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Dimensions - in (mm)			
		A	B	C	D
FUS01450	LPJ-9SP**	2.25 (57.2)	0.81 (20.6)		
FUS00953	LPJ-15 SP**	2.25 (57.2)	0.81 (20.6)		
FUS00035	LPJ-30SP**	2.25 (57.2)	0.81 (20.6)		
FUS01154	LPJ-35SP**	2.38 (60.3)	1.06 (27.0)		
FUS00952	LPJ-40 SP**	2.38 (60.3)	1.06 (27.0)		
FUS01151	LPJ-60SP**	2.38 (60.3)	1.06 (27.0)		
FUS01152	LPJ-70SP**	4.63 (117.5)	1.13 (28.6)	3.63 (92.1)	2.63 (66.7)
FUS01153	LPJ-80SP**	4.63 (117.5)	1.13 (28.6)	3.63 (92.1)	2.63 (66.7)
FUS01155	LPJ-110SP**	5.75 (146.1)	1.63 (41.4)	4.38 (111.1)	3.00 (76.2)
FUS01156	LPJ-125SP**	5.75 (146.1)	1.63 (41.4)	4.38 (111.1)	3.00 (76.2)
FUS01157	LPJ-150SP**	5.75 (146.1)	1.63 (41.4)	4.38 (111.1)	3.00 (76.2)
FUS01248	LPJ-175SP**	5.75 (146.1)	1.63 (41.4)	4.38 (111.1)	3.00 (76.2)
FUS01271	LPJ-200 SP**	5.75 (146.1)	1.63 (41.4)	4.38 (111.1)	3.00 (76.2)
FUS01270	LPJ-500SP**	8.00 (203.2)	2.60 (66.0)	6.00 (152.4)	1.52 (38.6)

##### LPN-RK\_SP (250V) Class RK1

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	Volts	Amps
FUS01140	LPN-RK-12SP	Current-limiting, dual-element, time-delay fuse; 10 seconds (minimum) at 500% rated amps (8 seconds for 0-30A sizes). Now available with optional permanent indication on select ratings (see Catalog Numbers table).	125Vdc (0-60A)	12
FUS01138	LPN-RK-25SP	Current-limiting, dual-element, time-delay fuse; 10 seconds (minimum) at 500% rated amps (8 seconds for 0-30A sizes). Now available with optional permanent indication on select ratings (see Catalog Numbers table).	125Vdc (0-60A)	25
FUS01139	LPN-RK-35SP**	Current-limiting, dual-element, time-delay fuse; 10 seconds (minimum) at 500% rated amps (8 seconds for 0-30A sizes). Now available with optional permanent indication on select ratings (see Catalog Numbers table).	125Vdc (0-60A)	35

Fuses

Low Voltage, Branch Circuit Rated Fuses

Low-Peak® dual-element, time-delay fuses

LPS-RK\_SP (600V) Class RK1



Features and Benefits

- Separate overload and short-circuit elements provide time delay for close sizing of high inrush loads linked with K1 current-limitation and selective coordination ratio of 2:1 (within Low-Peak fuse family) prevents widespread blackouts.
- Inventory consolidation of Class RK1, RK5 and H fuses for reduced SKU investment and minimizing potential for misapplying fuse.
- 300,000A RMS symmetrical interrupting rating provides adequate ratings without obsolescence for all electrical systems, big or small.
- Insulated end caps reduces exposure to live parts and extends air gap to distance between blades of adjacent mounted fuses or to housing.

Typical Applications

- Large Distribution Switchboards
- Power Panelboards
- Motor Control Centers
- Machinery Disconnect Switches

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	Volts	Amps
FUS01081	LPS-RK-40SP**	Current-limiting, dual-element, time-delay fuse; 10 seconds (minimum) at 500% rated amps (8 seconds for 0-30A sizes). Now available with optional permanent indication on select ratings (see Catalog Numbers table).	125Vdc	40

# Controls

## Fuses

### Low Voltage, Branch Circuit Rated Fuses

#### Low-Peak® time-delay, rejection-type fuses

##### LP-CC Class CC



A general purpose 15 amp, 600 Volt AC, UL listed, time-delay, current-limiting, cartridge fuse with rejection feature is used in residential and light-duty motor protection. It passes motor overload starting currents without needlessly opening.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	Volts	Amps	Dimensions
FUS01714	LP-CC-1/2	Time-delay, current-limiting, rejection-type fuse – 12 seconds (minimum)at 200% rated amps.	600Vac (or less)	2-Jan	13/32" x 1 1/2"(10.3 x 38.1mm).
FUS01463	LP-CC-8/10	Time-delay, current-limiting, rejection-type fuse – 12 seconds (minimum)at 200% rated amps.	600Vac (or less)	10-Aug	13/32" x 1 1/2"(10.3 x 38.1mm).
FUS00903	LP-CC-4	Time-delay, current-limiting, rejection-type fuse – 12 seconds (minimum)at 200% rated amps.	600Vac (or less)	4	13/32" x 1 1/2"(10.3 x 38.1mm).
FUS01291	LP-CC-5-6/10	Time-delay, current-limiting, rejection-type fuse – 12 seconds (minimum)at 200% rated amps.	600Vac (or less)	5/6/2010	13/32" x 1 1/2"(10.3 x 38.1mm).
FUS01292	LP-CC-7	Time-delay, current-limiting, rejection-type fuse – 12 seconds (minimum)at 200% rated amps.	600Vac (or less)	7	13/32" x 1 1/2"(10.3 x 38.1mm).
FUS01096	LP-CC-12	Time-delay, current-limiting, rejection-type fuse – 12 seconds (minimum)at 200% rated amps.	600Vac (or less)	12	13/32" x 1 1/2"(10.3 x 38.1mm).
FUS00943	LP-CC-20	Time-delay, current-limiting, rejection-type fuse – 12 seconds (minimum)at 200% rated amps.	600Vac (or less)	20	13/32" x 1 1/2"(10.3 x 38.1mm).

#### Plug fuses

##### Fustat Fuse Adapters



#### Features and Benefits

- Fustat adapters screw into the “Edison” thread fuse sockets of standard fuse boxes making it easy to retrofit existing fuse installations
- Available in various amp ratings to cover a wide range of rating requirements

#### Typical Applications

- Plug fuse installations where it is desirable to restrict fuse amp ratings

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
ADP00146	SA 6 1/4*	Adapters for using Type S and SL rejection fuses in Edison base fuse sockets.
ADP00971	SA-15**	Adapters for using Type S and SL rejection fuses in Edison base fuse sockets.

Fuses

Low Voltage, Branch Circuit Rated Fuses

Plug fuses

S and T Series



Features and Benefits

- Time-delay, dual-element T Series Edison base plug fuses provide small motor overload protection when used with box cover units.
- Time-delay, dual-element S Series plug fuses provide a rejection feature (when used alone or with Fustat adapters to retrofit Edison base holders) to prevent overfusing of branch circuits.

Typical Applications

- S Series - Residential Load Centers
- T Series - Box Cover Units for small motor overload protection
- Applications benefiting from fuse rejection (S Series only)

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	Volts	Amps	Dimensions
FUS00542	S-7	Dual-element, time-delay plug fuse.	125Vac	7	Rejection base
FUS01640	S-14	Dual-element, time-delay plug fuse.	125Vac	14	Rejection base
FUS00113	T-15	Dual-element, time-delay plug fuse.	125Vac	15	Edison base
FUS01392	T-20	Dual-element, time-delay plug fuse.	125Vac	20	Edison base
FUS01619	T30	Dual-element, time-delay plug fuse.	125Vac	30	Edison base

Time-delay fuses

SC Class G



Features and Benefits

- Current limiting for component protection, providing Class G energy-limitation for branch circuit protection.
- 100,000A interrupting rating provides cost-effective branch circuit fusing.
- Variations in length help prevent overfusing.

Typical Applications

- Fusible Branch Panelboards
- HVAC Branch Circuit Protection

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	Volts	Amps	Length	Diameter
FUS00896	SC-2	Fast-acting (1/2-6A), time-delay (7-60A) fuse.	480Vac	2	1.319	0.41 (10.4)
FUS01341	SC8	Fast-acting (1/2-6A), time-delay (7-60A) fuse.	300Vdc	8	1.319	0.41 (10.4)
FUS00444	SC-20*	Fast-acting (1/2-6A), time-delay (7-60A) fuse.	300Vdc	20	1.41 (35.8)	0.41" (10.4)
FUS00093	SC35	Fast-acting (1/2-6A), time-delay (7-60A) fuse.	300Vdc	35	2.25 (57.1)	0.41" (10.4)

# Controls

## Fuses

### Low Voltage, Branch Circuit Rated Fuses

#### T-Tron® fast-acting fuses

JJN Class T



#### Features and Benefits

- Series combination ratings with branch circuit breakers allows broad range of coverage, independent of breaker manufacturer.
- Current limitation for non-inductive circuits provides Class T current-limiting response to maximum ground fault and short-circuit conditions.
- 200,000A interrupting rating provides high ratings at all circuit locations.
- Small footprint allows more efficient use of available space.

#### Typical Applications

- Large Apartment Complexes
- Multi-Family Meter Stacks
- VFD Line Protection

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	Volts	Amps	Dimensions - in (mm)			
					A	B	C	D
FUS00690	JJN-60	Very fast-acting, currentlimiting fuse.	300Vac(or less)	60	0.88 (22.2)	0.56 (14.3)		
FUS00905	JJN-150	Very fast-acting, currentlimiting fuse.	300Vac(or less)	150	2.44 (61.9)	0.88 (22.2)	1.69 (42.9)	0.84( 21.4)
FUS00701	JJN-200	Very fast-acting, currentlimiting fuse.	300Vac(or less)	200	2.44 (61.9)	0.88 (22.2)	1.69 (42.9)	0.84( 21.4)
FUS00206	JJN-250	Very fast-acting, currentlimiting fuse.	300Vac(or less)	250	2.75 (69.9)	1.00 (25.4)	1.84 (46.8)	0.86 (21.8)
FUS01058	JJN-400	Very fast-acting, currentlimiting fuse.	300Vac(or less)	400	2.75 (69.9)	1.00 (25.4)	1.84 (46.8)	0.86 (21.8)



Fuses

Low Voltage, Branch Circuit Rated Fuses

T-Tron® fast-acting fuses

JJS Class T



A general purpose 60 amp, 600 Volt AC, UL listed, time-delay, current-limiting, cartridge fuse with rejection feature is used in residential and light-duty motor protection. It passes motor overload starting currents without needlessly opening.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	Volts	Amps	Dimensions - in (mm)			
					A	B	C	D
FUS01095	JJS-25	Very fast-acting, current-limiting fuse.	600Vac(or less)	25	1.56 (20.6)	0.81 (39.7)	0.88	0.41
FUS00583	JJS-30	Very fast-acting, current-limiting fuse.	600Vac(or less)	30	1.56 (20.6)	0.81 (39.7)	0.88	0.41
FUS00947	JJS-35	Very fast-acting, current-limiting fuse.	600Vac(or less)	35	1.56 (20.6)	0.81 (39.7)	0.88	0.56
FUS00946	JJS-40	Very fast-acting, current-limiting fuse.	600Vac(or less)	40	1.56 (20.6)	0.81 (39.7)	0.88	0.56
FUS01252	JJS-50	Very fast-acting, current-limiting fuse.	600Vac(or less)	50	1.56 (20.6)	0.81 (39.7)	0.88	0.56
FUS00661	JJS-60	Very fast-acting, current-limiting fuse.	600Vac(or less)	60	1.56 (20.6)	0.81 (39.7)	0.88	0.56
FUS01639	JJS-80	Very fast-acting, current-limiting fuse.	600Vac(or less)	80	2.95 (19.1)	0.75 (75.0)	2..36 (59.9)	1.64 (41.7)
FUS00945	JJS-90	Very fast-acting, current-limiting fuse.	600Vac(or less)	90	2.95 (19.1)	0.75 (75.0)	2..36 (59.9)	1.64 (41.7)
FUS00703	JJS-100	Very fast-acting, current-limiting fuse.	600Vac(or less)	100	2.95 (19.1)	0.75 (75.0)	2..36 (59.9)	1.64 (41.7)
FUS00906	JJS-125	Very fast-acting, current-limiting fuse.	600Vac(or less)	125	3.25 (22.2)	0.88 (82.6)	2.50 (63.5)	1.66 (42.1)
FUS01249	JJS-300	Very fast-acting, current-limiting fuse.	600Vac(or less)	300	3.63 (25.4)	1.00 (92.1)	2.72 (69.1)	1.73 (44.1)
FUS01250	JJS-350	Very fast-acting, current-limiting fuse.	600Vac(or less)	350	3.63 (25.4)	1.00 (92.1)	2.72 (69.1)	1.73 (44.1)
FUS01251	JJS-400	Very fast-acting, current-limiting fuse.	600Vac(or less)	400	3.63 (25.4)	1.00 (92.1)	2.72 (69.1)	1.73 (44.1)

Controls

Magnum

Splicer Termil Blocks



SPECIFICATIONS

**Ratings:** To 620A, 600V; UL/CSA. See table.

**Materials:** Molded material: Black, UL rated 94V-0 thermoplastic

**Operating Temperature:** 150°C

**Marking:** Marker strip is optional, consult factory.

**Agency approvals:** UL E62622 General Industrial Class per UL 1059; CSA LR15364; CE Pending

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Line Connection	Load Connection	Connector Material Ampacity	Agency Approvals
BLK00162	16200-3	#2-#14CU/#8AL	#2-#14CU/#8AL	AL-115A	UL CSA
BLK00305	16204-3	#2-#14CU/#8AL	#2-#14CU/#8AL	AL-115A	UL CSA

# Controls

## Fuses

### S Type High-Performance Plug Fuse (125 Volt)

#### Time-Delay Dual-Element

For the purpose applications. Like two fuses in one. A simple link element for short circuits and dangerous overloads plus a series-connected element that lets the harmless overload starting currents of motors pass w/o opening. Uses less energy; operates cooler; provides superior protection. Use the SRD type holders.

SERVICEFIRST ITEM NO	FUSE TYPE	CARTON PACK
FUS00534	S-3 2/10	4
FUS00538	S-5	4
FUS00541	S-6 1/4	4
FUS00543	S-8	4
FUS00545	S-10	4
FUS00546	S-12	4
FUS00548	S-15	4
FUS00549	S-20	4

#### SC Dimensiol Data

FUSE TYPE	LENGTH
SC-1	1 5/16"
SC-20	1 13/32"
SC-25 & SC-30	1 5/8"
SC-35 TO SC-60	2 1/4"

### SC Time-Lag Fuses (300 Volts Ac) Current Limiting

Type SC fuses are highly compact branch-circuit units with high interrupting rating and current limitation. As a 300-volt branch-circuit fuse, the type SC fuse has a broad general application. Use with HPF type holders.

SERVICEFIRST ITEM NO	FUSE TYPE	CARTON PACK
FUS00193	SC-1	10
FUS00177	SC-5	10
FUS00134	SC-6	10
FUS00089	SC-10	10
FUS00045	SC-15	10
FUS00092	SC-30	10
FUS00046	SC-60	10

## Gas Valves

### 36C Replacement Gas Controls With Side Taps by White-Rodgers



Ideal for general-purpose replacement. Furnished with natural-to-LP conversion kit, reducer bushings, and self-adhesive label with pilot-lighting instructions. Valve may be mounted in any position except upside down. Both main valve seat and line-interrupter seal with line pressure, ensuring positive gas sealoff. Inlet screen, pilot gas filter, and top-operated main valve provide maximum protection against chips and dirt. Gas cock knob, pilot adjust screw, and regulator adjustment are on top of control. Easy-grip pipe boss simplifies installation. Built-in regulator system provides constant outlet pressure throughout entire usable capacity of valve, regardless of inlet-pressure fluctuations. Natural gas type.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	COIL VOLTAGE	INLET-OUTLET	CAPACITY
VAL04922	36C03-333	24VAC/60 Hz	1/2" x 3/4"	250,000
VAL04924	36C03-433	24VAC/60 Hz	3/4" x 3/4"	335,000
VAL04925	36C03U-333	750 mV	1/2" x 3/4"	250,000
VAL04375	36C03U-433	750 mV	3/4" x 3/4"	335,000

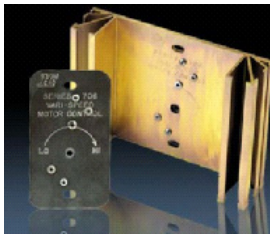
### 36E Redundant Gas Valves by White-Rodgers

Compact multifunction valve designed to meet the requirements for use with all types of intermittent ignition systems (cycle pilot, proven, pilot, direct-spark ignition and hot-surface ignition). All valve adjustments and features, as well as the system's interface wiring panel, have been designed on the top surface of the control for simplified servicing and easy accessibility. Poppet-style manual valve. Conical inlet and outlet screens protected from pipe damage. Keyed wiring. Direct-acting solenoid valve with high sealing force. Controlled gasket clinch between castings to withstand high inlet pressures. May be mounted horizontal, vertical, and 90° from horizontal. Tamper-resistant screws. Regulator setting: 3.5" W.C. Natural gas type.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	CONNECTION	USAGE
VAL04379	36E36-304	3 spade terminals	1/4" Proven Pilot, HSI and DSI
VAL04390	36E93-304	5 spade terminals	Proven Pilot with Pressure Switch

Hoffman Controls

706-123-S Series Fan Motor Speed Controllers



Multi-voltage controllers (120-277V or 460-480V) 5 amp ratings Adjustable minimum speed limit optional shaft extension

SERVICEFIRST ITEM NO	VENDOR ITEM NO
CNT03755	706-123-S

Microprocessor-Based Head Pressure Control 814-10EH (transformerless)



Special Features- Built in control transformer. Applicable for all refrigerant types. Monitors liquid line temperature (liquid subcooling). Eliminates compressor "slugging" (oil migration). Dual sensor Heat Pump function. Minimum speed adjust. Liquid line sensing with super responsive concave sensor with hardware. Weather-protected. Optional rain tight enclosure.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
CNT03793	814-10EH	The 814-10EH Microprocessor-based Electronic Head Pressure Control modulates (varies) precise condenser fan motor speed in low ambient temperatures, varying the air volume through the condenser for regulating head pressure.

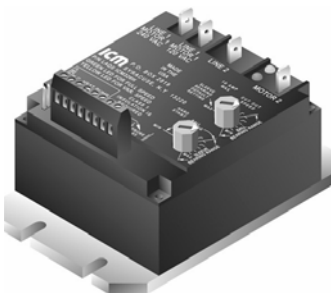
Microprocessor-Based Head Pressure Control 816-10DH (transformerless)



Special Features- Applicable for all refrigerant types. Monitors liquid line temperature (liquid subcooling). Eliminates compressor "slugging" (oil migration). Dual sensor Heat Pump function Minimum speed adjust. Liquid line sensing with super responsive concave sensor with hardware. Weather-protected. Optional rain tight enclosure.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
CNT03792	816-10DH	The 816-10DH Microprocessor-Based Electronic Head Pressure Control modulates precise condenser fan motor speed in low ambient temperatures, varying the air volume through the condenser for regulating head pressure.

Head Pressure Controls by ICM



ICM



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
CNT02905	ICM325H	Head-pressure control, input 24VAC, output 120VAC to 480VAC, hard start, low temp. cutoff, high temp. bypass. Integral heat pump circuitry allows electronic bypass of speed control during heat pump operation
CNT02906	ICM326H	Head-pressure control, 120 or 208/240V, built-in transformer, hard start, low temp. cutoff, high temp. bypass, for heat pumps
CNT02907	ICM3237HC	Line voltage head pressure
CNT03524	ICM336	Control, 3-phase head pressure, with LCD diagnostics, 240 VAC
CNT03525	ICM337	Control, 3-phase head pressure, with LCD diagnostics, 460 VAC

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
MOD01142	AF7801	MODULE; TEMPERATURE CONTROL

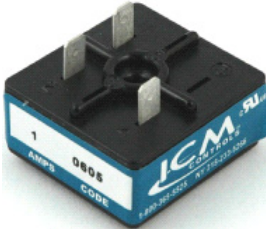
Controls

# Controls

## ICM



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
RES00857	AH4101	RESISTOR; POTENTIOMETER



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
RLY00585	AMS-AB1702	RELAY; TIME DELAY, 300 SEC, 1A, 24 VAC COIL



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
RLY03031	APS-AN1700	RELAY; TIME DELAY



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
RLY00527	BDR115A11X420	RELAY; TIME DELAY, SOLID STATE, SPDT, 420 SEC DELAY, 115 VAC



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
RLY01611	HMP500C2X600-AH1101	RELAY; TIME DELAY, ADJ 1-600 SEC, .1A, 24 VAC COIL

### Random Start Timer



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
TMR00217	ICM151B	TIMER; ICM151B 10 MINUTE ADJUSTABLE TIMER WITH HIGH PRESSURE MONITORING, FAULT OUTPUT

### Post Purge Timers (CTVR)



- ON delay lets air reach proper level prior to energizing fan
- OFF delay purges ducts of residual air to increase efficiency

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	Relay Contact Ratings		Time Delays	
			NC Contacts:	NO Contacts	ON	OFF
TMR00171	ICM251B	18-30 VAC	20 amps @ 240 VAC	10 amps @ 240 VAC	1-180 seconds	12-390 seconds

Controls

ICM

Post Purge Timers



- Knob-adjustable OFF delay 12-390 seconds
- OFF delay purges ducts of residual air to increase efficiency

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	Output Ratings		Time Delays	
			Maximum	Minimum	Fixed	Adjustable
TMR00164	ICM254B	18-30 VAC	1 amp	20 mA	1-180 seconds	12-390 seconds

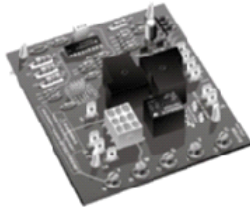
Post Purge Fan Delay



- Replaces thermal time delays
- OFF delay purges ducts of residual air to increase efficiency

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	Relay Contact Ratings		Time Delays:Fixed
			NC Contacts:	NO Contacts	
TMR00165	ICM255B	18-30 VAC	20 amps resistive	10 amps resistive	60 seconds

Fan Blower Control



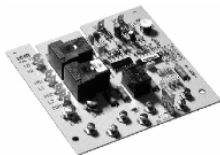
- Dual function fan delay timer

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	Rating	Time Delays (Adjustable Only)	
				ON Delay	OFF Delay
CNT03261	ICM270C	18-30 VAC	1amp	30 seconds fixed	90-180 seconds selectable



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
CNT03779	ICM274	CONTROL; ICM274 FAN BLOWER, ASC & ELECTRICAL HEAT OUTPUT

Fan Control Center

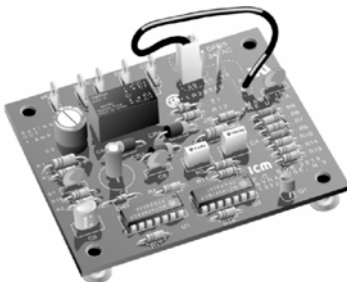


Description and Usage : The ICM275 Gas Furnace Control Center is a new generation control for the replacement market. The ICM275 Gas Furnace Control Center is designed to function similarly to previous control center designs, while incorporating some of the latest features in furnace control center technology.

It is a direct replacement for the following Carrier control center part numbers: HH84AA021, HH84AA001, HH84AA003, HH84AA005, HH84AA009, HH84AA014, HH84AA015, or CESO110019.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Time Delays Heat		Operating Temperature	Maximum Operating Humidity
		ON	OFF		
CNT03263	ICM275C	60 Seconds	60-240 Seconds	-40°F to +176°F	95% R.H.Non-condensin g @ 50°C

Defrost Controls by ICM

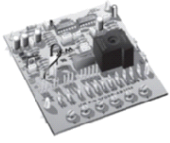


SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
CNT02896	ICM300C	Defrost Timers. Pin-selectable, 30/60/90 min., Essex 621 series, 24 VAC, 10 min. defrost interval
CNT02897	ICM315C	Defrost Timers. Pin-selectable, 30/45/90 min., 24 VAC, 10 min. defrost interval
CNT02898	ICM320C	Pin-selectable interval 30/50/90
CNT02903	ICM321C	Pin-selectable 30/50/90 min

# Controls

## ICM

### Defrost Timer



- Low cost time and temperature defrost control

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	Dimensions	Power Consumption	Defrost
CNT04645	ICM302C	18-30 VAC	4.5" x 5"	1 watt maximum	Fixed at 10 minutes (+/- 5%)

### Defrost Timer



- Low cost time and temperature defrost control

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	Dimensions	Power Consumption	Defrost	Reset Time for Power On
CNT02900	ICM303C	18-30 VAC	4" x 6"	1 watt maximum	Fixed at 10 minutes (+/- 5%)	5 minutes



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	Dimensions	Operating Temperature	Defrost	Defrost Relay Type	Rating
CNT03721	ICM307C	18-30 VAC	3.5" x 2.75"	-40°C to +75°C (-40°F to +167°F)	Fixed at 10 minutes (+/- 5%)	Triac	1 amp @30 VAC

- Low cost defrost control

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	Dimensions	Power Consumption	Defrost	Interval Between Defrost
CNT02901	ICM318C	18-30 VAC	3.6" x 3.4"	1 watt maximum	Fixed at 10 minutes (+/- 10%)	Pin selectable (30/60/80 minutes)

- Low cost time and temperature defrost control

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	Dimensions	Power Consumption	Defrost	ASC Time
CNT02902	ICM319C	18-30 VAC	4.5" x 5"	1 watt maximum	Fixed at 10 minutes (+/- 5%)	Fixed at 5 minutes (+/- 5%)

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	Dimensions	Power Consumption	Defrost
CNT02904	ICM322C	18-30 VAC	4.5" x 5"	1 watt maximum	Fixed at 10 minutes (+/- 5%)

### Defrost Timer Lead Lag Control



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	Rating	Deadband Adjustable	Anti-short Cycle Protection	
					Stage 1	Stage 2
CNT03266	ICM600C	18 to 30 VAC	2 amps	2°F to 20°F	Three (3) minutes	Four (4) minutes

ICM

Freeze Protection Modules



The ICM308/309/310 are low cost, fixed, single setpoint temperature controls that provide freeze protection.

Features

- Single setpoint temperature control
- Provides freeze protection
- Small, compact package
- Epoxy encapsulated for moisture protection
- Temperature sensor included

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	Dimensions	Temperature Cut-Out	
				(OFF)	(ON)
MOD01509	ICM308	18 to 30 VAC	2" X 2" X 1 1/4"	43°F	45°F

Three Phase Monitor



The ICM401 is a low cost 3-phase line monitor that protects against phase loss, phase reversal and phase unbalance. Ideally suited to protect scroll & screw compressors from reverse rotation.

Features

- Low cost, single side 3-phase protection
- Bright LED indicators for fault and load energized
- Easy to install, no adjustments
- Wide operating range: 190-600 VAC
- Less than 1-second phase loss response
- Automatic reset from a fault condition
- Compact packaging: fits almost anywhere
- Rugged, epoxy-encapsulation for extreme conditions
- Works great with the ICM450 for load side monitoring of part winding start motors and multiple compressor systems

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	Control Voltage	Relay	Dimensions
MON00004	ICM401C	190-600 VAC	18-30 VAC	SPST	3.0" x 3.2" x 1.4"

Three Phase Monitor



The ICM402 is a low cost 3-phase line monitor, with a 30 amp output that protects against phase loss, phase reversal and phase unbalance. Ideally suited to protect scroll & screw compressors from reverse rotation.

Features :

- Low cost, single side 3-phase protection
- 30 amp output
- Bright LED indicators for fault and load energized ON and FAULT
- Easy to install, no adjustments
- Wide operating range: 190-600 VAC
- Less than 1 second phase loss response
- Automatic reset from a fault condition
- Compact packaging: fits almost anywhere
- Rugged, epoxy-encapsulation for extreme conditions
- Works great with the ICM450 for load side monitoring of part winding start motors and multiple compressor systems

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	Frequency	Control Voltage	Relay	Dimensions
MON00012	ICM402c	190-600 VAC	50/60 Hz	208/240 VAC	SPST	3.25" x 3" x 1.25"

# Controls

## ICM

### Three Phase Line Monitor



The ICM409 is a low cost three-phase voltage monitor with fault indicator. Protects Against...

- Low Voltage
- High Voltage
- Unbalanced Voltage
- Power Interruptions
- Phase Loss
- Phase Reversal

Features :

- Adjustable delay-on-make timer for staggered starting
- Adjustable delay-on-break for anti-short cycle protection
- Adjustable universal voltage from 190 VAC to 480 VAC
- Adjustable voltage unbalance from 2-8% of the line voltage

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Relay Contact Ratings NO/NC Contacts:	Storage Temperature Range	Maximum Operating/Storage Relative Humidity
MON00019	ICM409	10A resistive @ 250 VAC	-40°C to +85°C	95% Non-condensing



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
SEN01313	ICM381	SENSOR; STANDARD TEMPERATURE PROBE FOR USE WITH ICM336 AND ICM337



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
MOD00865	ICM412C	MODULE; 3-PHASE, PLUG-IN LINE MONITORS, FRONT SIDE PROTECTION, ADJUSTABLE 400-480 VAC, FIXED SYMETRY 4-8%, 8-PIN PLUG-IN



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
CNT03526	ICM420	CONTROL; PLUG-IN 3-PHASE LINE VOLTAGE MONITOR, 208-240 vac



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
RLY00872	MAR115A1X.3H1113	RELAY; TIME DELAY, 3PDT, .3 SEC DELAY, 10A, 115V



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
RLY00860	MAR230A1Y30E1160	RELAY; TIME DELAY, DPDT, 30 SEC, 10A, 230 VAC COIL



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
RLY00752	MAR24A1X.3H1113	RELAY; TIME DELAY, 3PDT, .3 SEC DELAY, 10A, 24V

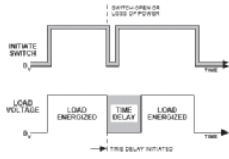
Controls



ICM

Series 207, 208, 209

Delay on Break



- 3 or 5 minute fixed, 10 minute adjustable.
- Works with anticipator type thermostats.

INSTALLATION - Step-by-step

1. Disconnect power.
2. Connect terminals as shown in the system diagram below.
3. Select desired time delay (adjustable models only).
4. Reapply power, check operation.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	Output Ratings		Time Delays	
			Maximum	Minimum	Fixed	Adjustable
TMR00211	ICM208B	18-240 VAC	1 amp	40 mA	3 or 5 minutes	10 minutes

Single Phase Line Monitors by ICM



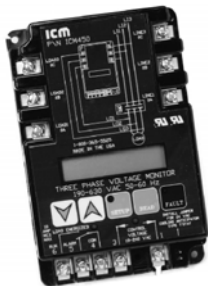
SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
MOD00862	ICM491C	Single phase line monitors, 165-240VAC, adjustable ASC timer, high/voltage protection

Time Delays by ICM



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
TMR00157	ICM102B	Delay-on-make timer. 1.5 amp, 2 wire hookup, for compressor staging. 18- 240VAC, 10 minute, adjustable time delay
TMR00158	ICM103B	Delay-on-make timer, Switch-settable delay, digital timing circuitry, 18-240VAC, 1-1023 sec., switch setting delays
TMR00160	ICM201B	Delay-on-make timer, 1.5 amp, 18-30VAC, works with anticipator-type thermostats, 5 min. fixed delay
TMR00161	ICM201FB	Timer, delay on break
TMR00162	ICM203B	Delay-on-make timer, 1.5 amp, 18-240VAC, works with anticipator-type thermostats, 10 min. adjustable
TMR00163	ICM205B	Delay-on-make timer with Brownout, 18-30VAC, works with anticipator-type thermostats, 5 min. fixed
TMR00166	ICM104B	Timer; delay on make, 20A 16 min adjustable
TMR00167	ICM200B	Timer; delay on break, 3 min fixed
TMR00168	ICM203FB	Timer; delay on break, 10 min. adj w/6 in wire terminations
TMR00169	ICM204B	Timer; delay on break, 3 min fixed
TMR00170	ICM206B	Delay-on-make timer with Brownout, 18-30VAC, works with anticipator-type thermostats, 10 min. adjustable
TMR00178	ICM200FB	Timer; delay on break, 1.5 amp, 18-30VAC, work w/anticipator-type thermostats. 3 min fixed, 6" wire
CNT03262	ICM271C	Fan blower, dual function time delays fixed, ROBERTSHAW 695-100

Motor Protection Controls by ICM



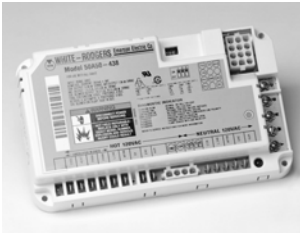
SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
MOD00757	ICM450C	3-Phase line monitors for motor protection, programmable, 25-fault memory, LCD setup and diagnostics, fault identification
MOD00756	ICM400C	Module, 3-phase motor protection line voltage monitor

Controls

# Controls

## Ignition Controls

### Electronic Ignition Controls



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
CNT01691	50E47-130	Hot surface ignition
CNT01684	50A50-113	Integrated furnace control (hot surface ignition)
CNT01685	50A50-295	Integrated furnace control (hot surface ignition)
CNT01686	50A50-296	Integrated furnace control (hot surface ignition)
CNT01687	50A50-408	Integrated furnace control (hot surface ignition)

## Invensys (Ranco Controls)

### Ranco 4-Way Reversing Valves



- Designed for minimal pressure drop to allow higher system efficiencies.
- 4-way pilot valve uses high and low side refrigerant pressure to push and pull the main valve slide for positive reversals at low pressure differentials.
- Hermetic construction using high quality materials (brass, copper, stainless steel) to eliminate external leakage for longer system life
- Teflon® lubricated sliding surfaces provide reduced internal friction and high contaminant resistance to provide longer valve durability and reliability (V4- V12).
- Low solenoid power consumption provides a Class B UL thermal rating for AC coils
- Solenoid coils have 1/4 male quick connects and are color coded by voltage.
- Solenoid coils can be removed within the length of the valve body and can be shipped attached to the valve in a choice of 4 positions.
- Available W29 wiring harnesses are shipped separately.
- Wiring harnesses can be specified at various lengths, terminations, and identification

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Valve Type	Internal Leakage, cc/min	Tube Style	Standard Connections Tube Sizes Female ID, Inches	
					Discharge	Suction, L,R
VAL08660	V6-414080-170	V6	500 to 4000	A	3/8", 1/2", 5/8", 3/4"	3/4", 7/8"
VAL08661	V6-412080-170	V6	500 to 4000	A	3/8", 1/2", 5/8", 3/4"	3/4", 7/8"
VAL08662	V2-408060-270	V2	400 to 2000	A, B	1/4", 5/16", 3/8",	3/8", 1/2"

### Ranco O Series Pressure Controls

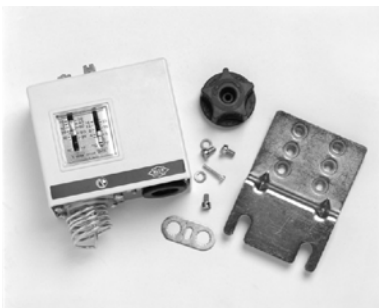
12

- Same features as above except low pressure suction and high pressure discharge functions are combined in one control.
- High pressure reset can be "field converted" between manual and automatic

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
CNT04808	O12-4833	Control, Dual Pressure, 12" to 50 PSI 48" Cap

## Temperature Controls

### A22 Controls



- Constant ON or OFF positions available.
- A wide variety of mounting brackets, adjustment ranges, and shaft styles available.
- Standard 1/4" quick-connect terminals with optional screw terminals.
- A22 can be used as a heat/cool thermostat by using a separate changeover switch.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Control Type	Switch	Temp Range °F	Adj Range °F	Differential	
						Min °F	Max °F
CNT04798	A22-1112	A22	SPDT/ SPST3	0 to 100	5 to 30	4.5	25
CNT04806	A22-391	A22	SPDT/ SPST3	0 to 100	5 to 30	4.5	25

**Invensys (Ranco Controls)**

**Temperature Controls**

**C12 Controls**

- Narrower differentials attainable.
- C12 can be used for cool only units or heat/cool units when used with a separate changeover switch.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Control Type	Switch	Temp Range °F	Adj Range °F	Differential	
						Min °F	Max °F
CNT04800	C12-5010	C12	SPDT	50 to 100	5 to 35	3	5

**C17 Controls**

- Narrower differentials attainable.
- C17 has two SPDT electrically isolated switches, calibrated at different set points and differentials. By using various wiring schemes, the C17 can provide a variety of control functions such as ON/OFF control, and manual or automatic changeover between compressors and strip heaters, or shifting of reversing valve for heat pumps.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Control Type	Switch	Temp Range °F	Adj Range °F	Differential	
						Min °F	Max °F
CNT04809	C17-100	C17	SPDT (2)	50 to 100	20 to 60	3.5	5

**Electronics**

*ETC Controls*

- Wide temperature range (-30 F to 220 F).
- Adjustable differential range (1 F to 30 F).
- LCD Digital Display.
  - Temperature at the sensor.
  - Control settings.
  - Relay status.
  - Onboard diagnostics.
- Simple Key Pad settings.
- Remote temperature sensing - up to 400 feet.
- Selectable Heat or Cool modes.
- Selectable Fahrenheit or Celsius modes.
- One Horsepower output relay.
- Concealed lockout switch to prevent tampering.
- Both one and two stage models available.
- 0-10 VDC analog output available.
- Settings retained in the event of a power failure.
- Sensor included with control.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Control Type	Switch	Temp Range °F	Differential	
					Min °F	Max °F
CNT04777	ETC-111000-000	ETC	SPDT One Stage	-30 to 220	1	30
CNT04797	ETC-112000-000	ETC	SPDT Two Stage	-30 to 220	1	30



- Fixed or adjustable temperature settings.
- Laser welded stainless steel sensing elements.

# Controls

## Invensys (Ranco Controls)

### Ice Machine Controls

#### A30 Adaptable Replacement, Constant Differential Controls

A30 Series



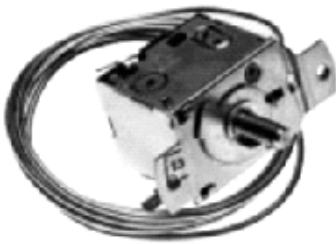
These compact controls are readily adaptable to nearly all commercial refrigerators and freezers. A wide selection of temperature ranges, differentials, and capillary lengths are available. Break-off shafts are included with installation instructions for easy, fast installation. Controls have "Off" position except as noted.

**ELECTRICAL RATING**

RATING	20V	240V	277V
AC FULL LOAD AMPS	20	20	16
AC LOCKED ROTOR AMPS	80	80	60
PILOT DUTY (VAC) 240	240	240	
RESISTIVE LOADS AMPS	-	-	16

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Cold OFF (°F)	Capillary Length
CNT04801	A30-180	-4	42"
CNT04803	A30-260	0.5	72"
CNT04780	A30-261	32	84"
CNT04794	A30-262	3	84"
CNT04804	A30-263	0.5	84"
CNT04790	A30-301	-24	84"

#### A30 Series Direct Replacement, Constant Differential and Constant Cut-In Controls



Direct replacement constant differential or constant cut-in cold controls. Used on commercial refrigerators, freezers, ice machines, vending machines, beverage coolers, and water coolers. Controls have SPST switching with "Off" position unless noted.

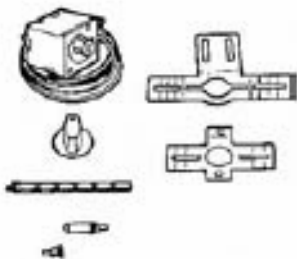
**ELECTRICAL RATING**

RATING	24V	120V	240V	277V
AC FULL LOAD AMPS	-	20	20	16
AC LOCKED ROTOR AMPS	-	80	80	60
PILOT DUTY (VAC) 240	240	240	240	
RESISTIVE LOADS AMPS	-	-		16

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DIFF	WARM		COLD		CAP
			OFF	ON	ON	OFF	
CNT04810	A30-2209	8	36.5	44.5	46	35	48"
CNT04784	A30-2210	8	32	40	42	30	48"

#### A22, A30 Series Ice Machine Controls

Replacements for Ice Machine Applications



SERVICEFIRST ITEM NO	VENDOR ITEM NO	Differential (°F)	Description
CNT04795	A22-1129	6°F	Bin level control

Controls

**RANCO Temperature Controls**

**A12 Series Constant Cut-In Controls**

*Direct Replacement*



Features spst switch with OFF position. One-for-one replacements for vending machines, automatic beverage dispensers, and reach-in coolers. Reliable off-cycle defrost.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Cut-In	Capillary Length
CNT04782	A12-700	37°F	84"
CNT04776	A12-701	41°F	84"
CNT04783	A12-1560	38°F	72"

**E15 Series Timer-Initiated Heat Pump De-Ice Controls**



Provides field-adjustable timer control for de-icing of heat pump outdoor coils. Defrost cycle starts every 30, 45 90 minutes. Interlock prevents more than one defrost cycle per time period and temperature must be 28°F or lower to start. Termination temperature is adjustable from 55° to 78°F.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Voltage
CNT04814	E15-2601	240V

**Pressure**

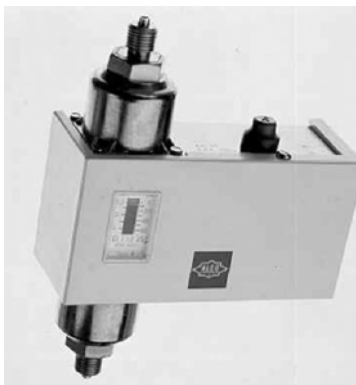
**Dual Pressure Controls by Emerson Flow Controls**



PS2. Combines the functions of a single high-pressure limit control and a single low-pressure control in one enclosure. Two independent SPDT switches are controlled by the high- and low-pressure sides of the control. The low-pressure, automatic-reset side provides all the features available with a single SPDT low-pressure control. The high-pressure side provides the conventional high-pressure cutout function with a contact for a high-pressure cutout alarm. A "convertible" reset feature on the high-side pressure returns to normal levels. A removable jumper between the high- and low-pressure switches provides you with conventional low/high pressure control operation with the option of an alarm on either, or both, the higher low-pressure side. Removal of the jumper allows you to operate the high- and low-side functions as two totally independent circuits.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	CONNECTION	LOW RANGE (PSIG)	HIGH RANGE (PSIG)	LOW DELTA ADJUST	HIGH DELTA ADJUST
CNT02194	PS2-Y7A 50/65*230/290	1/4" SAE Male	15-100	90-450	7 to 72	60 fixed
CNT02195	PS2-Y7K 50/65*230/290	48" cap., 1/4" flare nut	15-100	90-450	7 to 72	60 fixed
CNT02199	PS2-Y9K 7/ 15*230/290	48" cap., 1/4" flare nut	24-420	90-450	3 to 30	60 fixed

**Oil Pressure Safety Controls by Emerson Flow Controls**



FD113. Supply Voltage: 24V to 240V (AC/DC). Senses the effective oil pressure on pressure-lubricated compressors. If inadequate oil pressure exists, a time delay is energized. If the oil pressure does not recover to safe levels within the time delay setting, the compressor is shut down. The time delay allows the compressor adequate time to establish oil pressure on startup, and avoids nuisance shutdowns on pressure drops of short duration during the run cycle. Maximum application flexibility is ensured by providing an adjustable differential-pressure switch that can be adjusted to the compressor's minimum required oil pressure needs. An adjustable electronic time delay allows you to select the length of time the compressor runs below the minimum pressure before shutdown. An SPDT switch is used in the pressure portion of the control, which allows the addition of a "safe light" if desired. The electronic timer is adjustable from 20 to 150 seconds. A factory-installed jumper allows the control to be powered from a single source. Should separate circuits be desired for the timer and "lockout" switch, the jumper can be removed.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	PRESSURE RANGE	TIME RANGE	DESCRIPTION
CNT02196	FD113-ZU	4 to 65	Factory set at 120 sec	1/4" SAE Male
CNT02197	FD113-ZUK	4 to 65	20 to 150 sec	1/4" SAE Male
CNT03669	FD113-ZUS	4 to 65	20 to 150 sec	1/4" SAE Male
CNT01612	FD-113 (A22-088)	7 to 65	None	1/4" SAE Male

# Controls

## Pressure

### Single High-Pressure Controls by Emerson Flow Controls

PS1. Designed to sense the high side pressure in a refrigeration system for high-pressure limit, alarm, and condenser fan control. Maximum application flexibility is assured by using a heavy-duty 24 amp singlepole double-throw switch and wide range or precise pressure setting capability.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	CONNECTION	RANGE (PSIG)	DIFF RANGE (PSI)
CNT02189	PS1-X4K 115/145	36" cap., 1/4" flare nut	15" to 290	15 to 145
CNT02190	PS1-X5A 140/280	1/4" SAE male	90" to 450	30 to 330
CNT02191	PS1-X5K 330/290	1/4" SAE male	90" to 450	60 fixed
CNT02192	PS1-Y5A 230/390	36" cap., 1/4" flare nut	90" to 450	30 to 220
CNT02193	PS1-Y5K 230/290	36" cap., 1/4" flare nut	90" to 450	60 fixed

### Single Low-Pressure Controls by Emerson Flow Controls



PS1. Designed to sense the suction pressure in a refrigeration system for cycling, limit, and alarm applications. Maximum application flexibility and accuracy are assured by using a heavy-duty 24 amp single-pole double-throw switch and customized pressure ranges for precise pressure sensing.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	CONNECTION	RANGE (PSIG)	DIFF RANGE (PSI)
CNT02198	PS1-X1K 7/15	36" cap., 1/4" flare nut	24" to 42	4 to 29
CNT01598	FF-115-S1 BAA	1/4" SAE male	24" to 42	3 to 30
CNT02187	PS1-X3A 50/65	1/4" SAE male	15" to 100	7 to 73
CNT02188	PS1-X3K 50/65	36" cap., 1/4" flare nut	15" to 100	7 to 73

## Invensys (Ranco Controls)

### O Series Dual Function Pressure Controls

#### O 12 Series- SPST Switch



#### FEATURES

- Exclusive "convertible" reset for manual or automatic high pressure reset on some models
- NEMA 1 enclosure with non-conductive cover
- Front-located captive cover screw
- Large, easy-to-read scale plate
- SUPER CAP® capillary protection system
- Universal mounting and compact design
- Color coded flare nuts

#### ELECTRICAL RATING

#### O1 2- SPST

RATING	24V	120V	240V	241-600V
FULL LOAD AMPS	-	24	24	-
LOCKED ROTOR AMPS	-	144	144	-
PILOT DUTY (VA)	144	720	720	125

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Low Pressure (Opens Low) Differential	High Pressure (Opens High) Differential	Capillary Length
CNT04792	O12-1549	10 TO 40	70-FIXED	36"
CNT04793	O12-4834	10 TO 40	70-FIXED	48"

**Invensys (Ranco Controls)**

**Pressure Controls**

**O Series Single Function High Pressure Controls**

*O 10 Series– High Pressure Controls*



**FEATURES**

- NEMA 1 enclosure with non-conductive cover
- Front-located captive cover screw
- Large, easy-to-read scale plate
- SUPER CAP® capillary protection system
- Universal mounting and compact design
- Screw terminals are raised and fully accessible for easy wiring
- Laser-welded bellows for extended life
- Heavy-duty plated steel frame
- Suitable for R12, R22, and R502 applications

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Range	Capillary Length
CNT04778	O10-2054	100 TO 400	36"

*O 16 Series– High Pressure Controls*

**FEATURES**

- NEMA 1 enclosure with non-conductive cover
- Front-located captive cover screw
- Large, easy-to-read scale plate
- SUPER CAP® capillary protection system
- Universal mounting and compact design
- Screw terminals are raised and fully accessible for easy wiring
- Laser-welded bellows for extended life
- Heavy-duty plated steel frame
- Suitable for R12, R22, and R502 applications

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Range	Capillary Length
CNT04785	O16-108	100 TO 400	36"
CNT04812	O16-200		48"

# Controls

## Invensys (Ranco Controls)

### Pressure Controls

#### O Series Single Function Low Pressure Controls

##### O 10 Series– Low Pressure Controls



**FEATURES**

- NEMA 1 enclosure with non-conductive cover
- Front-located captive cover screw
- Large, easy-to-read scale plate
- SUPER CAP® capillary protection system
- Universal mounting and compact design
- Screw terminals are raised and fully accessible for easy wiring
- Laser-welded bellows for extended life
- Heavy-duty plated steel frame

**ELECTRICAL RATING**

	24V	120V	240V	241-600V
RATING VOLTAGE	24	120V	240V	241-600
FULL LOAD AMPS	-	24	24	-
LOCKED ROTOR AMPS	-	144	144	-
PILOT DUTY (VA)	144	720	720	125

**O10 - SPST**

	24V	120V	240V	241-600V
RATING VOLTAGE	24	120V	240V	241-600
FULL LOAD AMPS	-	17	17	-
LOCKED ROTOR AMPS	-	102	102	-
PILOT DUTY (VA)	144	720	720	125

**O16 - SPST**

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Range PSI	Capillary Length
CNT04779	O10-1402	12" TO 50	36"
CNT04781	O10-1483	10" TO 100	36"

##### O 16 Series– Low Pressure Controls

**FEATURES**

- NEMA 1 enclosure with non-conductive cover
- Front-located captive cover screw
- Large, easy-to-read scale plate
- SUPER CAP® capillary protection system
- Universal mounting and compact design
- Screw terminals are raised and fully accessible for easy wiring
- Laser-welded bellows for extended life
- Heavy-duty plated steel frame

**ELECTRICAL RATING**

	24V	120V	240V	241-600V
RATING VOLTAGE	24	120V	240V	241-600
FULL LOAD AMPS	-	24	24	-
LOCKED ROTOR AMPS	-	144	144	-
PILOT DUTY (VA)	144	720	720	125

**O10 - SPST**

	24V	120V	240V	241-600V
RATING VOLTAGE	24	120V	240V	241-600
FULL LOAD AMPS	-	17	17	-
LOCKED ROTOR AMPS	-	102	102	-
PILOT DUTY (VA)	144	720	720	125

**O16 - SPST**

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Range PSI	Differential
CNT04802	O16-527	10" TO 100	10 TO 40

### Relay Sockets

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
TMR00187	ACS-8	Timer 8 pin octal plug in base for plug in phase monitor and timers



**Relays**

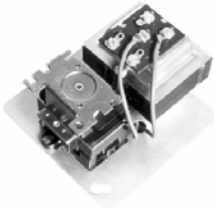
**CVR Series Multi-Voltage Control Relays by Core Components**

SERVICEFIRST ITEM NO	VENDOR ITEM NO	CORE COMPONENTS PART NUMBER	VOLTAGES INPUT	CONTACT RATINGS	HP RATINGS	DESCRIPTION
RLY02520	LD95100	CVR-12C-0	12-30DC,18-24AC	20 Amp	1HP 120/280/600 VAC, 1.5 HP 208/240 VAC	1 DPDT Relay
RLY02716	LD96144	CVR-11C-F	24-30AC/DC,120AC	10 Amp	1/2 HP 250, 1/4 HP 125 VAC N/C, 2 HP 250 VAC N/O, 1 HP 125 VAC N/O	1 SPDT Relay
RLY02524	LD96152	CVR-11C-V	10-30AC/DC,208/277AC	10 Amp	1/3 HP 120/2, 1/4 HP 277 VAC, 1/6 HP 120/240 VAC N/C, 1/8 HP 277 VAC N/C	1 SPDT Relay
RLY02521	LD96200	CVR11C-0	10-30AC/DC,120AC	10 Amp	1/3 HP 120/2, 1/4 HP 277 VAC N/O, 1/6 HP 120/240 VAC N/C, 1/8 HP 277 VAC N/C	1 SPDT Relay
RLY02523	LD96510	CVR-11A-H	10-30AC/DC,120AC	10 Amp	1/3 HP, 120/240 VAC N/O	1 SPDT w/ HOA, 1 SPDT Relay
RLY02525	LD97070	CVR-21A1C-H	10-30AC/DC,120AC	10 Amp	1/3 HP 120/2, 1/4 HP 277 VAC N/O, 1/8 HP 277 VAC N/C	1 SPDT Relay, 1 SPDT Relay
RLY02522	LD97200	CVR-21C-0	10-30AC/DC,120AC	10 Amp	1/3 HP 120, 1/4 HP 277 VAC N/O, 1/6 HP 120/240 VAC N/C, 1/8 HP 277 VAC N/C	2 SPDT Relay

# Controls

## Relays

### Enclosed Fan Relays by White-Rodgers



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
RLY01703	90-280Q	24 volts, SPNO
RLY01704	90-281Q	115/120 volts, SPNO
RLY01705	90-282Q	208/240 volts, SPNO
RLY01706	90-283Q	24 volts, SPDT
RLY01707	90-284Q	115/120 volts, SPDT
RLY01708	90-285Q	208/240 volts, SPDT

### Fan Control Center Relay And Transformer by White-Rodgers

A one-package transformer and relay combination. Rugged controls for remote mounting. Incorporates over/under bobbin-wound, energy-limiting, Class 2 transformer and fan relay on a common plate for mounting on a standard four-inch junction box. Contact ratings for 120VAC: 13.8 full load, 82.8 locked rotor. Contact ratings for 240VAC: 6.9 full load, 41.4 locked rotor.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
RLY01700	90-112	DPDT relay
RLY01701	90-113	SPDT relay
RLY01702	90-117	SPST
RLY01738	90-118E	120 volts, SPNO

### General Purpose Switching Relays by White-Rodgers

Quiet, reliable, and economical. Perfect for air conditioning, heating, appliances, fan control, and general-purpose switching.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
RLY02462	90-364	208/240 volts, SPNO
RLY01726	94-295Q	208/240 volts, SPDT

### Three-Pole Switching Relays by White-Rodgers

A three-pole, double-throw (TPDT), semi-enclosed relay. Easy to install and wire. Relay available for power or pilot duty. Suited for vending machines, appliances, fan controls, heating and air conditioning applications, and general purpose switching.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
RLY01794	90351	120 volts, TPDT

### Two-Pole Switching Relays by White-Rodgers



A two-pole, double-throw (DPDT), semi-enclosed relay. Easy to install and wire. Relay available for power or pilot duty. Suited for vending machines, appliances, fan controls, heating and/or air conditioning applications, and general-purpose switching.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
RLY01709	90-340	24 volts, DPDT, terminals 1-6: power
RLY01710	90-341	115/120 volts, DPDT, terminals 1-6: power
RLY01711	90-342	208/240 volts, DPDT, terminals 1-6: power
RLY02466	9100Y266042	OPDH pilot duty, 3 amp. 1/10 HP

### Heavy-Duty Enclosed Fan Relays by White-Rodgers

A compact, totally-enclosed relay with 50% more electrical rating (12 A). This heavy-duty, general purpose relay operates in any position. Enclosed design minimizes exposure to the elements. Plugs into receptacles.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
RLY01718	90-380	24 Volts, SPNO
RLY01719	90-382	120 Volts, SPNO
RLY01720	90-384	208/240 Volts, SPNO
RLY01730	90-370	24 Volts, SPDT
RLY01731	90-372	120 Volts, SPDT
RLY01732	90-374	208/240 Volts, SPDT

Relays

Logo by Furs

The Universal Logic Module

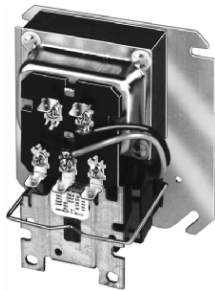


DESCRIPTION OF NEW PRODUCTS

ALL CPUS HAVE 30 INTEGRATED FUNCTIONS, 56 BLOCKS, ANNUAL CLOCK(EXCEPT WHERE NOTED, 2 ANALOG INPUTS( DC MODELS)

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
MOD01291	LOGO DM8 24	24 VDC, 4I/4O, transistor output, expansion module
MOD01292	LOGO DM8 24R	24 VAC, 4I/4O, relay output, expansion module
MOD01293	LOGO DM8 12/24R	12/24 VDC, 4I/4O, relay output NEW! 0-55 C, expansion module
MOD01294	LOGO DM8 230R	115/230 VAC, 4I/4O, relay output NEW! 0-55 C, expansion module
MOD01295	LOGO AM2	24 VDC, 2 analog inputs, expansion module
MOD01296	LOGO 12/24 RC Starter Kit	12/24 VDC, 8I/4O, with 2 analog inputs, relay starter kit
MOD01297	LOGO 230 RC Starter Kit	115/230 VAC, 8I/4O, relay output starter kit
GID00089	LOGO Manual	User's Manual, updated version 4.0
MOD00933	LOGO Soft Comfort	Drag and drop programming, on CD, version 4.0
MOD00934	LOGO PC Cable	Moves programs between LOGO! and PC
MOD01406	LOGO Card	Copies and saves programs, adds password protection
MOD00938	LOGO Contact 24	Compact relay – 20 A resistive, 8.4 A inductive 24 VDC coil,
MOD00939	LOGO Contact 230	3 HP @ 230 VAC, 5 HP @ 460 VAC
MOD00940	LOGO Power 1.3	Compact relay – 20 A resistive, 8.4 A inductive 230 VAC coil,
MOD00941	LOGO Power 2.5	3 HP @ 230 VAC, 5 HP @ 460 VAC
PWR00120	LOGO Power 4.5	Switch-mode power supply – 1.3 A, 115/230 VAC to 24 VDC
BRK03258	LOGO Bracket	Switch-mode power supply – 2.5 A, 115/230 VAC to 24 VDC

Potential Relays by White-Rodgers



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
RLY01689	90-63	170 volts, pick-up min./max: 140/153
RLY01690	90-64	395 volts, pick-up min./max: 245/275
RLY01691	90-65	336 volts, pick-up min./max: 171/184
RLY01692	90-66	395 volts, pick-up min./max: 208/239
RLY01693	90-67	420 volts, pick-up min./max: 300/328
RLY01694	90-68	495 volts, pick-up min./max: 323/352
RLY01688	90-26	395 volts, pick-up min./max: 180/195
RLY01695	90-70	256 volts, pick-up min./max: 278/306
RLY01696	90-71	420 volts, pick-up min./max: 223/252

# Controls

## Relays

### Relays by RIB



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
MNT01698	MT212-12	Mounting track 12" x 2.75" wide 10 (fits up to 10 panel mount relays)
MNT01699	MT212-2	Mounting track 2" x 2.75" wide (fits 1 panel mount relay)
RLY02541	RIB2401B	Enclosed 20 amp relay SPDT 24 VAC/DC/120VAC
RLY02542	RIB2401D	Enclosed 10 amp relay DPDT 24 VAC/DC/120VAC
RLY02543	RIB2401SB	Enclosed 20 amp relay SPST 24VAC/DC/120 VAC with override switch
RLY02544	RIB24P	Enclosed 20 amp relay DPDT 24 VAC/DC
RLY02545	RIBMN24C	Track-mount panel 15 amp relay SPDT 24 VAC/DC
RLY02546	RIBMN24S	Track-mount panel 15 amp relay SPST 24 VAC/DC with override switch
RLY02547	RIBU1C	Enclosed 10 amp relay SPDT 10-30 VAC/DC/120 VAC
RLY02548	RIBU1S	Enclosed 10 amp relay SPST 10-30 VAC/DC/120 VAC with override switch
RLY02549	RIBU2C	Enclosed 2-10 amp SPDT 10-30 VAC/DC/120 VAC
RLY02550	RIBX24BA	Enclosed internal adj. current sensor + relay 20 amp SPDT 24 VAC/DC
RLY02551	RIBX24SBA	Enclosed internal adj. current sensor + relay 20 amp SPDT 24 VAC/DC w/ override switch
RLY02552	RIBXLCRA	Enclosed remote adj. current sensor + relay 10 amp SPDT 10-30 VAC/DC
TRR01670	PSH75A	Enclosed single 120/208/240/277/480 VAC to 24 VAC 75 VA UL class II power supply

### Sensor Probe For Head Pressure Controls

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
SEN00864	ICM379	ICM379

## Invensys (Ranco Controls)

### Temperature Controls

#### O Series Custom and Wide Range Temperature Controls

##### O 10 Series Temperature Controls - Low



#### SPECIFICATIONS

- Maximum adjustment accuracy with 7 revolution range adjustment screws
- NEMA 1 enclosure with non-conductive cover
- Front-located captive cover screw
- Large easy-to-read scale plate
- Universal mounting and compact design
- Laser-welded bellows for extended life

The O60, which uses the industry's most advanced sensing element technology, has these additional features:

- Virtually unaffected by ambient temperature
- 10 times the setting sensitivity of most other wide range controls
- Gas-filled, nonposition-sensitive bulb
- Adjustable differential

#### ELECTRICAL RATING

RATING	24V	120V	240V	241-600V
AC FULL LOAD AMPS	-	24	24	-
AC LOCKED ROTOR AMPS	-	144	144	-
PILOT DUTY (VAC)	144	720	720	125
RESISTIVE LOADS AMPS	-	-	-	-

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Differential (°F)	Capillary Length
CNT04811	O10-1408	3 to 20	72" W / REMOTE BULB

**Invensys (Ranco Controls)**

**Temperature Controls**

**O Series Custom and Wide Range Temperature Controls**

*O 10 Series Temperature Controls - Medium*

**SPECIFICATIONS**

- Maximum adjustment accuracy with 7 revolution range adjustment screws
- NEMA 1 enclosure with non-conductive cover
- Front-located captive cover screw
- Large easy-to-read scale plate
- Universal mounting and compact design
- Laser-welded bellows for extended life

The O60, which uses the industry's most advanced sensing element technology, has these additional features:

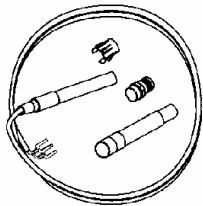
- Virtually unaffected by ambient temperature
- 10 times the setting sensitivity of most other wide range controls
- Gas-filled, nonposition-sensitive bulb
- Adjustable differential

**ELECTRICAL RATING**

RATING	24V	120V	240V	241-600V
AC FULL LOAD AMPS	-	24	24	-
AC LOCKED ROTOR AMPS	-	144	144	-
PILOT DUTY (VAC)	144	720	720	125
RESISTIVE LOADS AMPS	-	-	-	-

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Range (°F)	Differential (°F)	Capillary Length
CNT04791	O10-1409	0 to 55	3 to 20	72" W / REMOTE BULB
CNT04807	O10-1416	0 to 55	3 to 20	72"
CNT04805	O10-1418	0 to 55	3 to 20	AIR COIL

**Thermocouples**



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
TCP00090	H06E-18	Thermocouple 18"
TCP00091	H06E-24	Thermocouple 24"
TCP00092	H06E-30	Thermocouple 30"
TCP00093	H06E-36	Thermocouple 36"
TCP00094	H06E-48	Thermocouple 48"
TCP00087	H06E-72	Thermocouple 72"

**Thermostats**

**1F56 And 1E56 Series Mechanical Thermostats by White-Rodgers**



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
THT01553	1F56-301	Heat/cool, single-stage, horizontal, beige
THT01554	1F56-306	Electric heat/cool, single-stage, horizontal, beige
THT01555	1F56-444	Heat/cool universal, single-stage, horizontal, beige
THT01556	1F56W-444	Heat/cool, universal, single-stage, horizontal, white
THT02238	1F56W-911	Rounded style, heat/cool, universal, single-stage, horizontal, white
THT01550	1E56-444	Heat/cool, universal, single-stage, vertical, beige
THT01551	1E56W-444	Heat/cool, universal, single-stage, vertical, white

**Comfort-Set 70 Digital Thermostats by White-Rodgers**



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
THT02246	1F78-144	Single-stage, non-programmable, battery powered
THT02247	1F78-151	Single-stage, 5 + 2 day program, battery powered
THT02304	1F72-151	Heat pump (2H/1C), 5+2 day programmable, hardwired
THT02300	1F79-111	Heat pump (2H/1C), non-programmable, hardwired

Controls

# Controls

## Thermostats

### Comfort-Set 80 Digital Thermostats by White-Rodgers



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
THT02214	1F80-241	Single-stage, 5 + 1 + 1 program, hardwired
THT02232	1F80-261	Single-stage, 5 + 1 + 1 program, dual power
THT02215	1F86-241	Single-stage, non-programmable, hardwired
THT02233	1F86-244	Single-stage, non-programmable, battery powered
THT02271	1F82-261	Heat pump, 5 + 1 + 1 program, 2 heat/ 1 cool, hardwired
THT02268	1F89-211	Heat pump, non-programmable, 2 heat/ 1 cool, hardwired
THT02188	1F80-71	5-1-1 day programmable, hardwired or battery-powered
THT02301	1F80-240	Single-stage (1H/0C), 5-1-1 day-programmable, battery-powered
THT02278	1F80-224	Single-stage (1H/1C), 24-hour programmable, battery-powered
THT02298	1F81-261	Multi-stage (2H/2C), 5-1-1 day-programmable, hardwired or battery-powered
THT02297	1F83-261	Multi-stage (2H/2C), non-programmable, hardwired or battery-powered

### Comfort-Set 90 Digital Thermostats by White-Rodgers



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
THT02062	1F90-371	Single-stage, 5 + 1 + 1 program, auto changeover
THT02063	1F97-371	Single-stage, 7-day program, auto changeover
THT02231	1F96-344	Single-stage, non-programmable
THT02216	1F94-371	Heat pump, 3 heat/2 cool, 7-day program
THT02217	1F95-371	Multi-stage, 3 heat/2 cool, 7-day program
THT02218	1F95-377	Multi-stage or heat pump, 3 heat/2 cool, 7-day program
THT02207	1F93-380	Multi-stage or heat pump, 3 heat/2 cool, 7-day program
SEN01004	F145-1328	Indoor remote sensor
SEN01005	F145-1378	Outdoor sensor for displaying outdoor temperature
GRD01014	F29-0231	Clean plastic thermostat guard

### Fan Limit Controls by White-Rodgers

Manual reset limit controls. Open-on-rise switch action. Designed for quick on-the-job replacement. Mounting holes match standard 3/4" snap discs. Tab-to-screw terminal adaptors furnished.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	THERM-O-DISC PART #	FIXED TEMP SETTINGS
CNT01738	3L02-160	60T15-330534	Manual reset cut-in, 160°F cut-out
CNT01740	3L02-180	60T15-330536	Manual reset cut-in, 180°F cut-out
CNT01742	3L02-200	60T15-330538	Manual reset cut-in, 200°F cut-out

### Fan Limit, F Series by White-Rodgers

Snap-disc fan controls. Close-on-rise switch action. Designed for quick on-the-job replacement. Mounting holes match standard 3/4" snap discs. Tab-to-screw terminal adaptors furnished.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	THERM-O-DISC PART #	FIXED TEMP SETTINGS
CNT01712	3F01-110	60T12-610044	110°F cut-in, 90°F cut-out
CNT01713	3F01-120	60T12-610046	120°F cut-in, 110°F cut-out
CNT01714	3F01-130	60T12-610047	130°F cut-in, 115°F cut-out
CNT01715	3F01-140	60T12-610049	140°F cut-in, 120°F cut-out
CNT01716	3F01-150	60T12-610050	150°F cut-in, 130°F cut-out
CNT01717	3F01-160	60T12-610064	160°F cut-in, 140°F cut-out
CNT01718	3F01-180	60T12-610065	180°F cut-in, 160°F cut-out
CNT01719	3F01-200	60T12-610066	200°F cut-in, 180°F cut-out
CNT01720	3F01-350	60T12-610067	350°F cut-in, 320°F cut-out

**Thermostats**

**Fan Limit, L Series by White-Rodgers**

Snap-disc fan or limit controls. Open-on-rise switch action. Designed for quick on-the-job replacement. Mounting holes match standard 3/4" snap discs. Tab-to-screw terminal adaptors furnished.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	THERM-O-DISC PART #	FIXED TEMP SETTINGS
CNT01725	3L01-120	60T11-610000	110°F cut-in, 120°F cut-out
CNT01726	3L01-130	60T11-610002	115°F cut-in, 130°F cut-out
CNT01727	3L01-140	60T11-610006	100°F cut-in, 140°F cut-out
CNT01728	3L01-150	60T11-610009	110°F cut-in, 150°F cut-out
CNT01729	3L01-165	60T11-610069	125°F cut-in, 165°F cut-out
CNT01730	3L01-170	60T11-610012	130°F cut-in, 170°F cut-out
CNT01731	3L01-180	60T11-610013	140°F cut-in, 180°F cut-out
CNT01732	3L01-190	60T11-610015	150°F cut-in, 190°F cut-out
CNT01733	3L01-200	60T11-610016	160°F cut-in, 200°F cut-out
CNT01734	3L01-230	60T11-610021	190°F cut-in, 230°F cut-out
CNT01735	3L01-250	60T11-610023	210°F cut-in, 250°F cut-out
CNT01736	3L01-300	60T11-610026	250°F cut-in, 300°F cut-out
CNT01737	3L01-350	60T11-610068	310°F cut-in, 350°F cut-out

**Fusible Links**

Thermal cutoffs. High current interrupt capacity applications requiring up to 25 amps. One-shot operation cuts off electrical curve permanently. Low resistance (<5 milliohms).

SERVICEFIRST ITEM NO	DESCRIPTION
FUS00740	Temperature open: 98°C, 208°F
FUS01327	Temperature open: 152°C, 306°F
FUS01311	Temperature open: 228°C, 438°F
FUS00762	Temperature open: 98°C, 208°F
FUS00765	Temperature open: 109°C, 227°F
FUS00768	Temperature open: 128°C, 257°F
FUS00809	Temperature open: 152°C, 300°F
FUS00823	Temperature open: 100°C, 208°F
FUS00829	Temperature open: 128°C, 257°F
FUS00831	Temperature open: 152°C, 300°F
FUS01478	Temperature open: 104°C, 219°F
FUS00808	Temperature open: 141°C, 286°F
FUS00810	Temperature open: 167°C, 333°F
FUS00826	Temperature open: 109°C, 228°F

**New Construction Temporary Thermostat**

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
THT02385	SC055	Low ambient compressor lockout, cooling only, 55°F
THT02386	SC060	Heating only, 60°F
THT02387	SC060S	Heating only, 60°F, with switch - fan/off/heat
THT02388	SC065	Heating only, 65°F
THT02389	SC065S	Heating only, 65°F, with switch - fan/off/heat
THT02390	SC070	Heating only, 70°F
THT02391	SC070S	Heating only, 70°F, with switch - fan/off/heat
THT02392	SC075	Cooling only, 75°F
THT02393	SC075S	Cooling only, 75°F, with switch - fan/off/heat

# Controls

## Thermostats

### Simple Comfort Thermostats by ICM



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
THT02399	SC2001	SC2001 T-stat, 1 STG HT/1 STG CL or SGL STG heat pump
THT02400	SC2200	SC2200 T-stat, 2 STG HT/2 STG CL multi STG heat pump
THT02401	SC2201	SC2201 T-stat, 2 STG HT/2 STG CL multi STG heat pump
THT02402	SC2300	SC2300 T-stat, 2 STG HT/2 STG CL multi STG standard
THT02404	SC3001	SC3001 T-stat, programmable or non, SS HT/CL or SS HP, 24V model, manual changeover, back light
THT02405	SC3006	SC3006 T-stat, programmable or non, SS HT/CL or SS HP, 24V model, auto changeover, back light, keypad lockout
THT02406	SC3201	SC3201 T-stat, programmable or non, 2 STG HT/2 STG CL HP, manual changeover, back light and status LED
THT02398	SC2000	SC2000 T-stat, 1 STG HT/1 STG CL or SGL STG heat pump
THT02407	SC3801	SC3801 T-stat, programmable or non, 1 STG or 2 STG HT/CL STD or HP, auto or manual changeover, back light, programmable fan, keypad lockout
THT02403	SC3000	SC3000 T-stat, programmable or non, SS HT/CL or SS HP, 24V or millivolt battery model, manual changeover
THT02394	SC1600	SC1600 T-stat, HTG only, without fan switch, battery
THT02395	SC1800	SC1800 T-stat, HTG only, battery
THT02396	SC1900	SC1900 T-stat, CLG only, battery
THT02397	SC1901	SC1901 T-stat, CLG only, battery
THT02412	SC1601	ICM SC1601, heat only without fan switch, hardwire
THT02413	SC1801	ICM SC1801, heat only, hardwire

### Remote Sensor For SC3801



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
SEN01226	ACC-RT104	Sensor; remote sensor for SC3801 thermostat

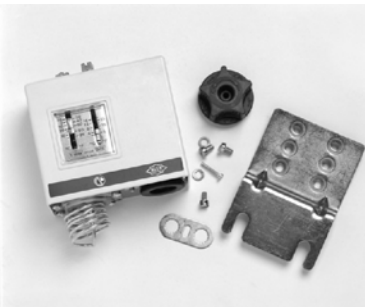
### Thermostat Guards by White-Rodgers

Designed for use in offices, churches, restaurants, and other public areas to prevent adjustment of the temperature lever by unauthorized personnel. Each model furnished with two keys, and a ring and/or solid wall mounting plate. Can be mounted vertically or horizontally.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
GRD01151	F29-0198	Clear
GRD01151	F29-0238	Opaque (beige)

### TS1 Temperature Controls by Emerson Flow Controls

#### Wide Range—Bulb Sensing



Designed to sense space or surface temperature in cooling or heating applications for cycling and alarm applications. SPDT switch allows control of heating as well as cooling applications. Heavy-duty 24 amp SPDT switch allows the handling without the use of a contactor. Non-ambient-sensitive. Standard accessories include mounting bracket, knob, and lock plate.

#### Wide Range—Bulb Sensing

Sensing controls utilize a power element, which responds to the bulb only, regardless of capillary or control-body temperature. While this is necessary when cross-ambient control applications are encountered, the disadvantage is the control responds slower to temperature changes than a vapor-filled control, due to the mass of the bulb and the power element design.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	RANGE	DIFFERENTIAL	ELEMENT
CNT02200	TS1-X4F 32/41	-22 to +95	5 to 36	10' Cap w/ 3/8"×2" Bulb



## Thermostats

### TS1 Temperature Controls by Emerson Flow Controls

#### Remote Coiled Bulb—Vapor Charged

Fast-response, vapor-filled power element. Responds to the coldest point on the bulb, capillary, or power element head. Ideally suited to temperature control in refrigerators or freezers sensing return or discharge air, or evaporator temperature.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	RANGE	DIFFERENTIAL	ELEMENT
CNT02201	TS1-X1A -4/0	-49 to +14	3 to 29	10' Cap w/ 3/8"x2" Bulb
CNT02202	TS1-X2A 21/30	-22 to +59	3 to 29	10' Cap w/ 3/8"x2" Bulb

#### Air Coil—Room Sensing

Fast-response, vapor-filled, air-coil capillary for space temperature sensing. Ideally suited to walk-in coolers and freezers, ventilation fans, and space heater temperature control.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	RANGE	DIFFERENTIAL	ELEMENT
CNT02203	TS1-X2E 36/40	-22 to +59	3 to 29	Air Coil for space temp
CNT02204	TS1-X3E 64/68	+14 to +95	3 to 29	Air Coil for space temp

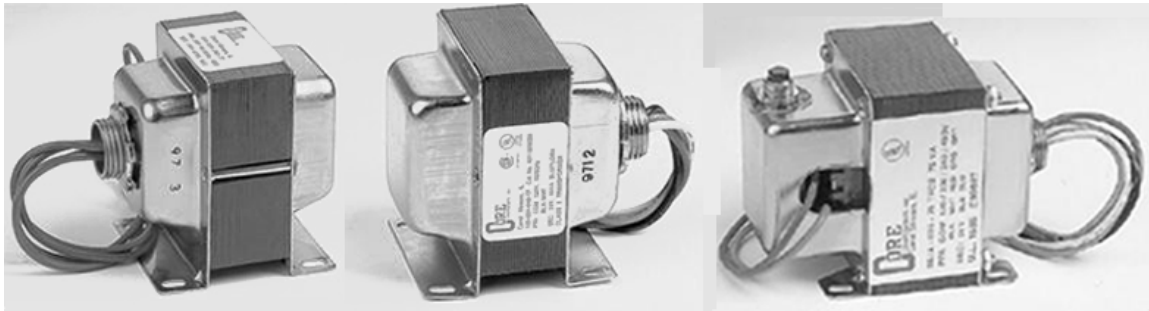
## Wall Plates

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
PLT03837	ACC-WP01	Small wall plate, 4 27/32" x 5 15/16"
PLT03838	ACC-WP02	Large wall plate, 5 19/32" x 7 1/2"

## Transformers

### Class 2 Control Transformers by Core Components

#### Isolation



SERVICEFIRST ITEM NO	VENDOR ITEM NO	VA	PRIMARY VOLTAGE	SECONDARY VOLTAGE	MANUAL RESET CIRCUIT BREAKER	NUMBER OF HUBS	HUB STYLE	CLASS
TRR01706	LE10473	20	24	24	NO	1	1TF	GP
TRR01645	LE10500	40	24	24	NO	1	1TF	2

# Controls

## Transformers

### Class 2 Control Transformers by Core Components

#### Single primary

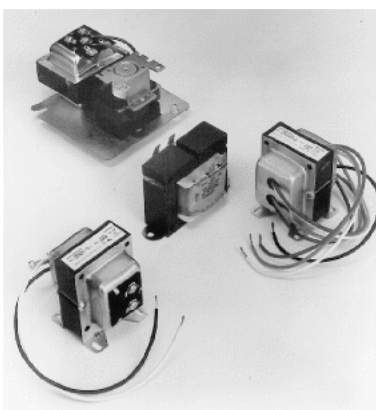
SERVICEFIRST ITEM NO	VENDOR ITEM NO	VA	PRIMARY VOLTAGE	SECONDARY VOLTAGE	MANUAL RESET CIRCUIT BREAKER	NUMBER OF HUBS	HUB STYLE	CLASS
TRR01707	LE11145	20	120	24	NO	1	1TF	2
TRR01708	LE11177	20	120	24	NO	2	2TF	2
TRR01646	LE11200	40	120	24	NO	2	2TF	2
TRR01647	LE11300	40	120	24	NO	1	1TF	2
TRR01649	LE11700	50	120	24	NO	1	1TF	2
TRR01648	LE11750	50	120	24	NO	2	2TF	2
TRR01651	LE11800	75	120	24	YES	2	2TF	2
TRR01652	LE11900	75	120	24	YES	1	1TF	2
TRR01653	LE12000	96	120	24	YES	2	2TF	2
TRR01654	LE12100	96	120	24	YES	1	1TF	2
TRR01655	LE12400	150	120	24	YES	1	1TF	GP
TRR01710	LE12463	175	120	24	NO	2	1TF/1BO	GP
TRR01711	LE12573	240	120	24	NO	2	1TF/1BO	GP
TRR01712	LE12600	375	120	24	NO	2	2BO	GP
TRR01713	LE13050	50	277	24	NO	2	2TF	2
TRR01650	LE13100	50	277	24	NO	1	1TF	2

#### Multiple primary

SERVICEFIRST ITEM NO	VENDOR ITEM NO	VA	PRIMARY VOLTAGE	SECONDARY VOLTAGE	MANUAL RESET CIRCUIT BREAKER	NUMBER OF HUBS	HUB STYLE	CLASS
TRR01714	LE15010	75	120/208/240/480	24	YES	2	1TF/1SO	2
TRR01715	LE15013	75	120/208/240/480	24	YES	2	2TF	2
TRR01716	LE15337	40	120/208/240	24	NO	2	2TF	2
TRR01717	LE16000	50	120/240/277/480	24	YES	2	2TF	2
TRR01718	LE16927	50	120/240/277/480	24	YES	2	1TF/1SO	2
TRR01719	LE17000	96	120/240/277/480	24	YES	2	2TF	2
TRR01720	LE17345	96	120/240/277/480	24	YES	2	1TF/1SO	2
TRR01721	LE18100	50	208/240/277/480	120	YES	2	2TF	N/A
TRR01722	LE47289	50	208/240	24	NO	2	2TF	2

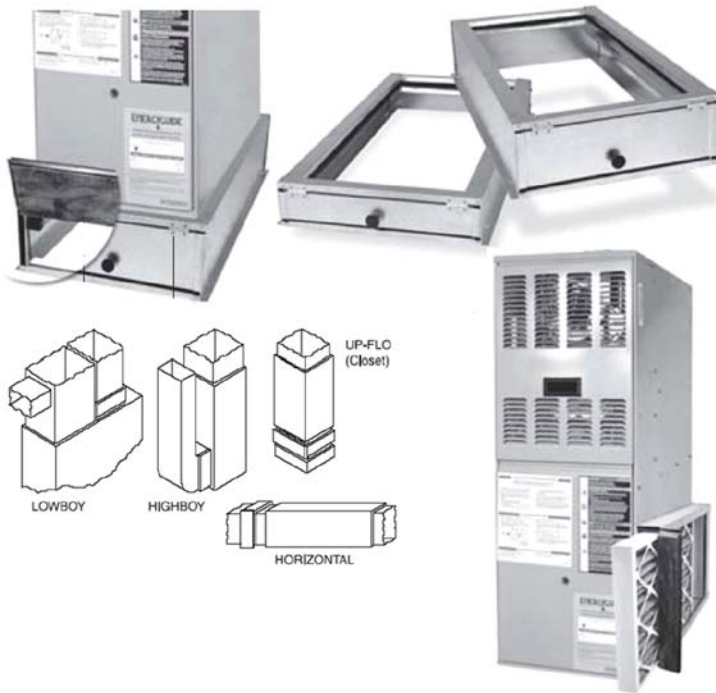
#### Transformers by ServiceFirst

SERVICEFIRST ITEM NO	VA	PRIMARY VOLTAGE	SECONDARY VOLTAGE
TRR00455	35	120-230	24
TRR00465	40	120	24
TRR00464	40	120	24
TRR00466	40	208-240	24
TRR00469	48	120-208-240	2.5-12-24
TRR00470	48	277	24
TRR00471	50	120-208-240	24
TRR00574	50	460-575	24
TRR00473	60	208-240	24
TRR01014	75	120-208-240	24
TRR00475	75	120-208-240-480	24
TRR00826	75	460-575	24



**Sheet Metal Accessories by McDaniel Metals**

**Accommodator Filter Housing**



**Features:**

- Accommodates standard filters
- Uses pleated, electrostatic or throwaway filters in 1", 2", 4" filters
- Embossed heavy-gauge steel construction
- Gasket provides tight seal
- Hinged door for easy access
- Completely insulated
- Individually boxed for convenient shipping and warehousing
- Sizes to fit all furnaces through 5 tons
- Filter may be purchased at your local wholesaler or distributor
- Made in USA
- Honeywell F25 filters for 1625
- Handles 1", 2" or 4 3/8" filters
- Available in one size
- Designed for side return application
- Heavy gauge embossed steel construction
- Insulated

The Accommodator filter housing is the professional's choice for performance, quality and ease of installation. It allows homeowners easy access to filters without entering the furnace. Models fit a full range of filter sizes and efficiencies. You can't make a better choice for your installers and your customers than the Accommodator. It installs with most central heating/ cooling systems in upflow, lowboy, highboy, horizontal, vertical and downflow applications.

**HUS03669 (ACG 1625 6-H)**

- Honeywell F25 filters for 1625
- Handles 1", 2" or 4 3/8" filters
- Available in one size
- Designed for side return application
- Heavy gauge embossed steel construction
- Insulated

**Accommodator Tall Base**

*Specifications for Gas Furnaces*

Height- 5 3/4" Handles 1", 2" or 4" filter

SERVICEFIRST ITEM NO	VENDOR ITEM NO	OUTSIDE DIMENSION W X H X L	DUCT OPENING W X L	FILTER SIZE
HUS03520	ACG 1425-6	15 3/8 x 5 3/4 x 28 3/8	12 7/8 x 26 1/2	14 x 25
HUS03521	ACG 1625-6	17 3/8 x 5 3/4 x 28 3/8	14 7/8 x 26 1/2	16 x 25
HUS03669	ACG 1625-6-H	17 3/8 x 5 5/8 x 25 1/2	14 1/2 x 23 1/2	16 x 25
HUS03522	ACG 2025-6	21 3/8 x 5 3/4 x 28 3/8	18 7/8 x 26 1/2	20 x 25
HUS03523	ACG 2424-6	25 3/8 x 5 3/4 x 28 3/8	22 7/8 x 26 1/2	24 x 24
HUS03665	ACG 3025-6	31 3/8 x 5 3/4 x 28 1/2	28 5/8 x 26 1/4	30 x 25

*Specifications for Electric Furnaces*

SERVICEFIRST ITEM NO	VENDOR ITEM NO	OUTSIDE DIMENSION W X H X L	DUCT OPENING W X L	FILTER SIZE
HUS03528	ACE 1420-6	15 3/8 x 5 3/4 x 22	12 7/8 x 19	14 x 20
HUS03529	ACE 1620-6	17 3/8 x 5 3/4 x 22	14 7/8 x 19	16 x 20
HUS03667	ACE 1625-6	19 1/2 x 5 3/4 x 25 1/2	17 1/4 x 20 1/4	16 x 25
HUS03530	ACE 2020-6	21 3/8 x 5 3/4 x 22	18 7/8 x 19	20 x 20
HUS03531	ACE 2025-6	26 3/8 x 5 3/4 x 22	23 7/8 x 19	20 x 25
HUS03532	ACE 2025-6N	21 3/8 x 5 3/4 x 25	18 3/4 x 31 3/8	20 x 25

# HVAC Supplies and Accessories

## Sheet Metal Accessories by McDaniel Metals

### Accommodator Short Base

Specifications for Gas Furnaces

Height-3 3/4" Handles 1" or 2 filters

SERVICEFIRST ITEM NO	VENDOR ITEM NO	OUTSIDE DIMENSION W X H X L	DUCT OPENING W X L	FILTER SIZE
HUS03524	ACG 1425-3	15 3/8 x 3 3/4 x 28 3/8	12 7/8 x 26 1/2	14 x 25
HUS03525	ACG 1625-3	17 3/8 x 3 3/4 x 28 3/8	14 7/8 x 26 1/2	16 x 25
HUS03526	ACG 2025-3	21 3/8 x 3 3/4 x 28 3/8	18 7/8 x 26 1/2	20 x 25
HUS03527	ACG 2424-3	25 3/8 x 3 3/4 x 28 3/8	22 7/8 x 26 1/2	24 x 24
HUS03666	ACG 3025-3	31 3/8 x 3 3/4 x 28 1/2	28 5/8 x 26 1/4	30 x 25

Specifications for Electric Furnaces

SERVICEFIRST ITEM NO	VENDOR ITEM NO	OUTSIDE DIMENSION W X H X L	DUCT OPENING W X L	FILTER SIZE
HUS03533	ACE 1420-3	15 3/8 x 3 3/4 x 22	12 7/8 x 19	14 x 20
HUS03534	ACE 1620-3	17 3/8 x 3 3/4 x 22	14 7/8 x 19	16 x 20
HUS03668	ACE 1625-3	19 1/2 x 3 3/4 x 25 1/2	17 1/4 x 20 1/4	16 x 25
HUS03535	ACE 2020-3	21 3/8 x 3 3/4 x 22	18 7/8 x 19	20 x 20
HUS03536	ACE 2025-3	26 3/8 x 3 3/4 x 22	23 7/8 x 19	20 x 25
HUS03537	ACE 2025-3N	21 3/8 x 3 3/4 x 25	18 3/4 x 21 3/8	20 x 25

### Accommodator III Filter Housing



**Features:**

- Available in one size (20 x 25)
  - Adjustable filter track accommodates 1" to 7" filter widths
  - Gasket creates tight seal on access door
  - Designed for side return or horizontal return applications
  - Accommodates pleated, electrostatic or throwaway filters
  - Also any manufactured replacement cardboard framed media filters
- The Accommodator III enables the homeowner a wide variety of filter choices and efficiencies.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	FILTER SIZE
HUS03554	ACIII	20 x 25

**Sheet Metal Accessories by McDaniel Metals**

**Labor Saver Filter Housing**



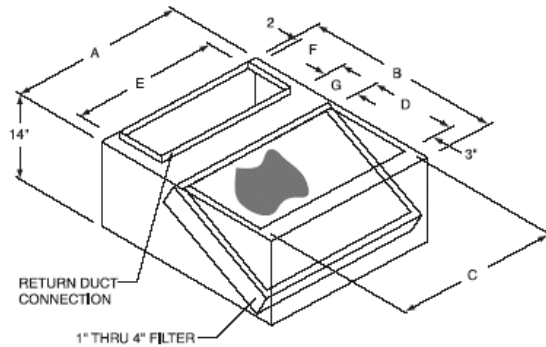
**Features:**

- Adjustable filter rack 1", 2", 4"
- Uses standard filter sizes
- Easy access from both sides
- Box reverses for left hand and right hand arrangement
- No need to construct platform saves time and money
- Lined with 1" insulation
- Embossed heavy-gauge steel construction
- Filter positioned on an angle for maximum surface area
- No hardware to remove for filter access
- Filter may be purchased at your local wholesaler or distributor
- Made in USA

The Labor Saver is an affordable solution for residential and light commercial applications. The Labor Saver enables the homeowner access to the filter without entering the furnace.

The Labor Saver is designed for the new age of shortened furnaces which is easily installed with most central heating and cooling systems. The Labor Saver raises the furnace to the plenum making installation fast and efficient saving contractor time and labor with a professional installation.

**Physical Data and Specifications**

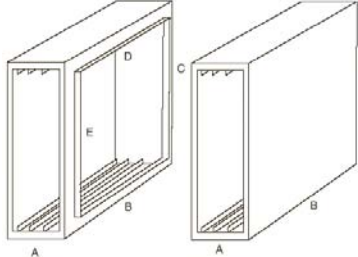


SERVICEFIRST ITEM NO	VENDOR ITEM NO	A	B	C	D	E	F	G	FILTER SIZE STANDARD
HUS03538	LS 2832	28 ½	32	26 ½	13 ½	24	8	6	20 x 25
HUS03539	LS 2840	28 ½	40	26 ½	19	24	10	7	24 x 24
HUS03664	LS 2843	28 ½	43	26 ½	19	24	10	7	24 x 24
HUS03540	LS 2232	22 ½	32	20 ½	14 ½	20 ½	9 ½	5	20 x 20
HUS03541	LS 2240	22 ½	40	20 ½	20 ½	20 ½	12	5	20 x 25

# HVAC Supplies and Accessories

## Sheet Metal Accessories by McDaniel Metals

### Horizontal Filter Housing



Model HR

Model HRB

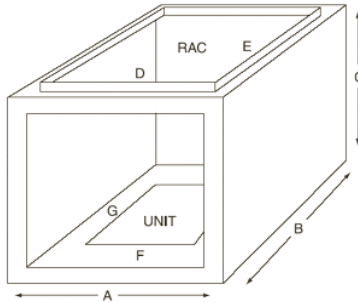
**Features:**

- Accommodates standard filter 1", 2" or 4"
  - For horizontal applications
  - Individually boxed for convenient shipping and warehousing
  - Completely insulated
  - Four models to choose from
  - HR Model is open on one side and blocked off on the other side, cut blocked side to your furnace specifications
  - HRB Model is blocked off on both sides, cut to fit your furnace specifications and the existing plenum
- The Horizontal filter housing gives the homeowner the option of a 1", 2" or 4" filter.  
The Horizontal filter housing gives you many choices of filter types and sizes.

**Physical Data and Specifications**

SERVICEFIRST ITEM NO	VENDOR ITEM NO	OVERALL			DUCT OPENING		FILTER SIZE
		A	B	C	D	E	
HUS03546	HR20	6 5/8	25 1/2	22	19 3/4	19	20 x 25
HUS03547	HR25	6 5/8	20 1/2	27	19 3/4	19	20 x 25
HUS03548	HRB20	6 5/8	25 1/2	22	-	-	20 x 25
HUS03549	HRB25	6 5/8	20 1/2	27	-	-	20 x 25

### Counterflow Filter Housing



**Features:**

- Accommodates standard filters
  - 1" filter only
  - Embossed heavy-gauge steel construction
  - Completely insulated
  - Four sizes (1-5 Ton)
  - Easy access to filters
  - Filters positioned at angles for maximum surface area
  - Made in USA
- The Counterflow filter housing enables the homeowner access to the filters without interference from the vent pipe when changing a filter.

**Physical Data and Specifications**

SERVICEFIRST ITEM NO	VENDOR ITEM NO	OVERALL			DUCT OPENING		UNIT OPENING		QTY	FILTER SIZE
		A	B	C	D	E	F	G		
HUS03550	CF1	15 3/4	21 3/8	12	13 3/4	19 7/8	12 5/8	20 1/8	2	10 x 20 x 1
HUS03551	CF2	18 3/4	21 3/8	12	16 3/4	19 7/8	16 1/8	20 1/8	3	10 x 20 x 1
HUS03552	CF3	23 3/4	21 3/8	12	21 1/4	19 7/8	20	20 1/8	3	10 x 20 x 1
HUS03553	CF4	27 3/4	21 3/8	12	25 3/4	19 7/8	23 3/8	20 1/8	4	10 x 20 x 1

**Sheet Metal Accessories by McDaniel Metals**

**Plenums**

Plenum, Return Air (Without Filter Frame)



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DIMENSIONS
PLN00919	RAP162524	16 x 25 x 24
PLN00920	RAP162536	16 x 25 x 36
PLN00921	RAP202524	20 x 25 x 24
PLN00922	RAP202536	20 x 25 x 36

**3 Foot Plenum26 Gauge with Strengthening Beads**

*1" Liner, Insulated*

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DIMENSIONS
PLN00856	PLN/001-3	12 1/2 x 19 1/2
PLN00857	PLN/002-3	12 1/2 x 21 1/2
PLN00858	PLN/003-3	12 x 24
PLN00859	PLN/004-3	15 5/8 x 19 5/16
PLN00860	PLN/005-3	19 1/8 x 19 5/8
PLN00861	PLN/006-3	19 5/16 x 22 5/8
PLN00862	PLN/007-3	20 x 25
PLN00863	PLN/008-3	24 x 21
PLN00864	PLN/009-3	33 1/4 x 21
PLN00865	PLN/010-3	33 1/4 x 27
PLN00953	PLN/011-3	19 1/2 x 20 Plenum for Rex Rack
PLN00954	PLN/012-3	13 x 24
PLN00955	PLN/013-3	16 x 24
PLN00956	PLN/014-3	22 x 17 1/2
PLN00957	PLN/015-3	28 x 17 1/2
PLN00958	PLN/016-3	14 x 12 1/4
PLN00959	PLN/017-3	16 x 12 1/4
PLN00960	PLN/018-3	19 1/2 x 12 1/4
PLN00961	PLN/019-3	21 1/2 x 12 1/4
PLN00962	PLN/020-3	22 3/4 x 20 1/4

*1 1/2" Liner, Insulated*

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DIMENSIONS
PLN00923	PLN/001T-3	12 1/2 x 19 1/2
PLN00924	PLN/002T-3	12 1/2 x 21 1/2
PLN00925	PLN/003T-3	12 x 24
PLN00926	PLN/004T-3	15 5/8 x 19 5/16
PLN00927	PLN/005T-3	19 1/8 x 19 5/8
PLN00928	PLN/006T-3	19 5/16 x 22 5/8
PLN00929	PLN/007T-3	20 x 25
PLN00930	PLN/008T-3	24 x 21
PLN00931	PLN/009T-3	33 1/4 x 21
PLN00932	PLN/010T-3	33 1/4 x 27
PLN00933	PLN/011T-3	19 1/2 x 20
PLN00934	PLN/012T-3	13 x 24
PLN00935	PLN/013T-3	16 x 24
PLN00936	PLN/014T-3	22 x 17 1/2
PLN00937	PLN/015T-3	28 x 17 1/2
PLN00963	PLN/016T-3	14 x 12 1/4
PLN00964	PLN/017T-3	16 x 12 1/4
PLN00965	PLN/018T-3	19 1/2 x 12 1/4
PLN00966	PLN/019T-3	21 1/2 x 12 1/4
PLN00967	PLN/020T-3	22 3/4 x 20 1/4

# HVAC Supplies and Accessories

## Sheet Metal Accessories by McDaniel Metals

### Plenums

#### 4 Foot Plenum 26 Gauge with Strengthening Beads

1" Liner, Insulated

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DIMENSIONS
PLN00866	PLN/001-4	12 1/2 x 19 1/2
PLN00867	PLN/002-4	12 1/2 x 21 1/2
PLN00868	PLN/003-4	12 x 24
PLN00869	PLN/004-4	15 5/8 x 19 5/16
PLN00870	PLN/005-4	19 1/8 x 19 5/8
PLN00871	PLN/006-4	19 5/16 x 22 5/8
PLN00872	PLN/008-4	24 x 21
PLN00873	PLN/009-4	33 1/4 x 21
PLN00874	PLN/010-4	33 1/4 x 27
PLN00968	PLN/011-4	19 1/2 x 20 Plenum for Rex Rack
PLN00969	PLN/012-4	13 x 24
PLN00970	PLN/013-4	16 x 24
PLN00971	PLN/014-4	22 x 17 1/2
PLN00972	PLN/015-4	28 x 17 1/2
PLN00973	PLN/016-4	14 x 12 1/4
PLN00974	PLN/017-4	16 x 12 1/4
PLN00975	PLN/018-4	19 1/2 x 12 1/4
PLN00976	PLN/019-4	21 1/2 x 12 1/4
PLN00977	PLN/020-4	22 3/4 x 20 1/4

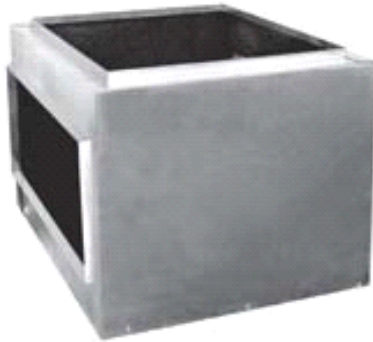
1 1/2" Liner, Insulated

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DIMENSIONS
PLN00938	PLN/001T-4	12 1/2 x 19 1/2
PLN00939	PLN/002T-4	12 1/2 x 21 1/2
PLN00940	PLN/003T-4	12 x 24
PLN00941	PLN/004T-4	15 5/8 x 19 5/16
PLN00942	PLN/005T-4	19 1/8 x 19 5/8
PLN00943	PLN/006T-4	19 5/16 x 22 5/8
PLN00944	PLN/007T-4	20 x 25
PLN00945	PLN/008T-4	24 x 21
PLN00946	PLN/009T-4	33 1/4 x 21
PLN00947	PLN/010T-4	33 1/4 x 27
PLN00948	PLN/011T-4	19 1/2 x 20
PLN00949	PLN/012T-4	13 x 24
PLN00950	PLN/013T-4	16 x 24
PLN00951	PLN/014T-4	22 x 17 1/2
PLN00952	PLN/015T-4	28 x 17 1/2
PLN00978	PLN/016T-4	14 x 12 1/4
PLN00979	PLN/017T-4	16 x 12 1/4
PLN00980	PLN/018T-4	19 1/2 x 12 1/4
PLN00981	PLN/019T-4	21 1/2 x 12 1/4
PLN00982	PLN/020T-4	22 3/4 x 20 1/4



Sheet Metal Accessories by McDaniel Metals

Downflow Supply Plenum



**Features:**

- Available in two sizes (1-5 Ton)
- Heavy gauge steel construction
- Elevated box for non-contact with floor
- Insulated
- 18" sleeve available 8 x 24 and 12 x 24

**Model DFSP (3 Ton)**

- 1 1/2 through 3 tons
- Top opening 14 3/4 x 19 3/4
- Side supply opening 8 x 24
- Overall dimensions 22" wide x 28 1/2" deep x 18" tall

**Model DFSP (5 Ton)**

- 3 1/2 through 5 tons
- Top opening 24 x 19 3/4
- Side supply opening 12 x 24
- Overall dimensions 26 1/2" wide x 28 1/2" deep x 18" tall

**insulated with turning vanes, 20 gauge galvanized steel**

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DIMENSIONS
PLN00875	DFSP824	8 x 24 Side Supply Opening
PLN00876	DFSP1224	12 x 24 Side Supply Opening

Cold Air Drop (CAD)



**Features:**

- Provides fast and professional installation
- Constructed of 26 gauge galvanized steel
- Non-insulated
- Individually boxed for convenient shipping and warehousing
- Comes knocked-down
- Saves time and money - no elbow needed
- Two sizes available: 1620 or 1625
- Easy open access door

**24 gauge galvanized steel**

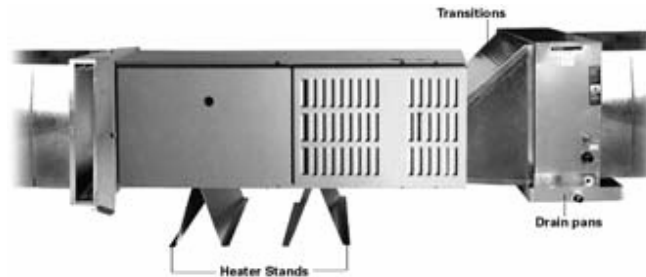
SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
PLN00877	CAD1620	Accommodates two 16 x 20 filters
PLN00878	CAD1625	Accommodates two 16 x 25 filters

# HVAC Supplies and Accessories

## Sheet Metal Accessories by McDaniel Metals

### Transitions, Drain Pans and Heater Stands

#### Transitions, 26 Gauge with Strengthening Beads, 1" Liner



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DIMENSIONS (W X H X L)
TRA00001	TRA/001	19 5/8 x 13 1/4 To 24 x 21
TRA00002	TRA/002	19 5/8 x 16 1/4 To 24 x 21
TRA00003	TRA/003	19 3/4 x 19 3/4 To 33 1/4 x 21
TRA00004	TRA/004	19 3/4 x 19 3/4 To 33 1/4 x 27
TRA00005	TRA/005	19 3/4 x 23 1/4 To 33 1/4 x 27
TRA00006	TRA/006	19 5/8 x 16 1/4 To 33 1/4 x 21
TRA00016	TRA/011	19 5/8 x 13 1/4 To 33 1/4 x 21

#### Transitions, 26 Gauge with Strengthening Beads, 1-1/2" Liner

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DIMENSIONS (W X H X L)
TRA00007	TRA/001T	19 5/8 x 13 1/4 To 24 x 21
TRA00008	TRA/002T	19 5/8 x 16 1/4 To 24 x 21
TRA00009	TRA/003T	19 3/4 x 19 3/4 To 33 1/4 x 21
TRA00010	TRA/004T	19 3/4 x 19 3/4 To 33 1/4 x 27
TRA00011	TRA/005T	19 3/4 x 23 1/4 To 33 1/4 x 27
TRA00012	TRA/006T	19 5/8 x 16 1/4 To 33 1/4 x 21
TRA00013	TRA/007T	19 1/2 x 13 1/4 To 18 1/4 x 21 1/4
TRA00014	TRA/008T	19 1/2 x 13 1/4 To 26 1/4 x 21 1/4
TRA00015	TRA/009T	19 1/2 x 16 1/4 To 30 1/4 x 21 1/4
TRA00017	TRA/011T	19 5/8 x 13 1/4 To 33 1/4 x 21

#### Drain Pans, Heavy Gauge Welded, Steel Nipples

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DIMENSIONS (W X H X L)
PAN02211	PAN/001	32 x 36
PAN02212	PAN/002	32 x 60
PAN02213	PAN/003	14 x 44
PAN02343	PAN/004	30 x 66

#### Stands, Heater, 20 Gauge Galvanized Steel

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DIMENSIONS (W X H X L)
BAS01788	HS930	9 x 30
BAS01789	HS630	6 x 30

**Sheet Metal Accessories by McDaniel Metals**

**Platform Drain Pans**



**Features:**

- Model HBCP available in two sizes
- HBCP drainpan air handler platform
- HFCP gas drainpan platform
- HFP horizontal furnace or air handler platform
- Makes a professional installation
- 20 gauge drainpan
- 6" high furnace feet
- 3/4" steel tubing
- Platform can be placed directly on ceiling joists or suspended

**Horizontal Furnace OR Air Handler**

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
BAS01892	HBCP3260	32 x 60 Drain Pan with 6" Tall Furnace Stands

**Gas Furnace/Horizontal Evaporator**

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
BAS01893	HFCP	35 x 56 Platform with 24 x 35 Drain Pan and (3) 6" Tall Furnace Stands

**Horizontal Furnace OR Air Handle**

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
BAS01894	HFP	30 x 48 Platform with 6" Tall Furnace Stands

# HVAC Supplies and Accessories

## Sheet Metal Accessories by McDaniel Metals

### Cross Reference Sheet

#### Cross Reference for RXC and TXC Furnace Coils

##### RXC FURCE COILS, TRENTON (2 TO 5 TONS)

COIL MODEL	SUPPLY PLENUM (3 FEET)		SUPPLY PLENUM (4 FEET)		EMERGENCY PAN
	1" LINER	1-1/2" LINER	1" LINER	1-1/2" LINER	
RXC025S3HPD	PLN00859	PLN00926	PLN00869	PLN00941	PAN02211
RXC031S3HPC	PLN00859	PLN00926	PLN00869	PLN00941	PAN02211
RXC036S3HPC	PLN00859	PLN00926	PLN00869	PLN00941	PAN02211
RXC037S3HPC	PLN00860	PLN00927	PLN00870	PLN00942	PAN02211
RXC054S3HPC	PLN00860	PLN00927	PLN00870	PLN00942	PAN02211
RXC061S3HPC	PLN00962	PLN00967	PLN00977	PLN00982	PAN02211
RXC065S3HPC	PLN00962	PLN00967	PLN00977	PLN00982	PAN02211

##### TXC FURCE COILS, TRENTON (1 TO 6 TONS)

COIL MODEL	SUPPLY PLENUM (3 FEET)		SUPPLY PLENUM (4 FEET)		EMERGENCY PAN
	1" LINER	1-1/2" LINER	1" LINER	1-1/2" LINER	
TXC018C4HPB	PLN00856	PLN00923	PLN00866	PLN00938	PAN02211
TXC024C4HPB	PLN00856	PLN00923	PLN00866	PLN00938	PAN02211
TXC025C4HPB	PLN00859	PLN00926	PLN00869	PLN00941	PAN02211
TXC030C4HPB	PLN00856	PLN00923	PLN00866	PLN00938	PAN02211
TXC031C4HPB	PLN00859	PLN00926	PLN00869	PLN00941	PAN02211
TXC031E5HPB	PLN00859	PLN00926	PLN00869	PLN00941	PAN02211
TXC031S3HPA	PLN00859	PLN00926	PLN00869	PLN00941	PAN02211
TXC035C4HPB	PLN00856	PLN00923	PLN00866	PLN00938	PAN02211
TXC036C4HPB	PLN00859	PLN00926	PLN00869	PLN00941	PAN02211
TXC036E5HPB	PLN00859	PLN00926	PLN00869	PLN00941	PAN02211
TXC036S3HPA	PLN00859	PLN00926	PLN00869	PLN00941	PAN02211
TXC037C4HPB	PLN00860	PLN00927	PLN00870	PLN00942	PAN02211
TXC037E5HPB	PLN00860	PLN00927	PLN00870	PLN00942	PAN02211
TXC037S3HPA	PLN00860	PLN00927	PLN00870	PLN00942	PAN02211
TXC039E300A	PLN00859	PLN00926	PLN00869	PLN00941	PAN02211
TXC042C4HPB	PLN00859	PLN00926	PLN00869	PLN00941	PAN02211
TXC043C4HPB	PLN00860	PLN00927	PLN00870	PLN00942	PAN02211
TXC048C4HPB	PLN00859	PLN00926	PLN00869	PLN00941	PAN02211
TXC049C4HPB	PLN00860	PLN00927	PLN00870	PLN00942	PAN02211
TXC050C4HPB	PLN00861	PLN00928	PLN00871	PLN00943	PAN02211
TXC054E5HPB	PLN00860	PLN00927	PLN00870	PLN00942	PAN02211
TXC054S3HPA	PLN00860	PLN00927	PLN00870	PLN00942	PAN02211
TXC059E300A	PLN00860	PLN00927	PLN00870	PLN00942	PAN02211
TXC060C5HPB	PLN00860	PLN00927	PLN00870	PLN00942	PAN02211
TXC061C5HPB	PLN00861	PLN00928	PLN00871	PLN00943	PAN02211
TXC062E300A	PLN00861	PLN00928	PLN00871	PLN00943	PAN02211
TXC065S3HPA	PLN00861	PLN00928	PLN00871	PLN00943	PAN02211

**Sheet Metal Accessories by McDaniel Metals**

**Cross Reference Sheet**

**Cross Reference for TUD Upflow Gas Furnace, Trenton TUE Upflow Horizontal Single Stage, Trenton**

*TUD Upflow Gas Furnace, Trenton*

SERVICEFIRST ITEM NO	COIL MODEL #	TRANSITION		SUPPLY PLENUM (3 FEET)		SUPPLY PLENUM (4 FEET)	
		1" LINER	1-1/2" LINER	1" LINER	1-1/2" LINER	1" LINER	1-1/2" LINER
TUD040C/R924H	TXH025A / TXH033A	TRA00001	TRA00007	PLN00863	PLN00930	PLN00872	PLN00945
TUD040C930H	TXH025A / TXH033A	TRA00001	TRA00007	PLN00863	PLN00930	PLN00872	PLN00945
TUD060A936K	TXH041A / TXH054A	TRA00016	TRA00017	PLN00864	PLN00931	PLN00873	PLN00946
TUD060C/R936H	TXH025A / TXH033A	TRA00001	TRA00007	PLN00863	PLN00930	PLN00872	PLN00945
TUD060C924H	TXH025A / TXH033A	TRA00001	TRA00007	PLN00863	PLN00930	PLN00872	PLN00945
TUD060R9V3H	TXH041A	TRA00006	TRA00012	PLN00864	PLN00931	PLN00873	PLN00946
TUD060R9V3H	TXH033A	TRA00002	TRA00008	PLN00863	PLN00930	PLN00872	PLN00945
TUD080C/R936H	TXH033A	TRA00002	TRA00008	PLN00863	PLN00930	PLN00872	PLN00945
TUD080C/R936H	TXH041A	TRA00006	TRA00012	PLN00864	PLN00931	PLN00873	PLN00946
TUD080C/R948H	TXH041A / TXH054A	TRA00006	TRA00012	PLN00864	PLN00931	PLN00873	PLN00946
TUD080C924H	TXH025H / TXH033A	TRA00002	TRA00008	PLN00863	PLN00930	PLN00872	PLN00945
TUD080R9V3H	TXH041A / TXH054A	TRA00006	TRA00012	PLN00864	PLN00931	PLN00873	PLN00946
TUD080R9V3H	TXH033A	TRA00002	TRA00008	PLN00863	PLN00930	PLN00872	PLN00945
TUD100C/R936H	TXH033A	TRA00002	TRA00008	PLN00863	PLN00930	PLN00872	PLN00945
TUD100C/R948H	TXH041A / TXH054A	TRA00003	TRA00009	PLN00864	PLN00931	PLN00873	PLN00946
TUD100C/R960H	RXH063/TXH063A	TRA00004	TRA00010	PLN00865	PLN00932	PLN00874	PLN00947
TUD100C/R961H	RXH063/TXH063A	TRA00004	TRA00010	PLN00865	PLN00932	PLN00874	PLN00947
TUD100C945H	TXH041A / TXH054A	TRA00006	TRA00012	PLN00864	PLN00931	PLN00873	PLN00946
TUD100R9V5H	RXH063/TXH063A	TRA00004	TRA00010	PLN00865	PLN00932	PLN00874	PLN00947
TUD100R9V5H	TXH041A / TXH054A	TRA00003	TRA00009	PLN00864	PLN00931	PLN00873	PLN00946
TUD120C/R954H	RXH063/TXH063A	TRA00004	TRA00010	PLN00865	PLN00932	PLN00874	PLN00947
TUD120C/R954H	TXH054A	TRA00003	TRA00009	PLN00864	PLN00931	PLN00873	PLN00946
TUD120C/R960H	RXH063/TXH063A	TRA00005	TRA00011	PLN00865	PLN00932	PLN00874	PLN00947
TUD120R9V5H	RXH063/TXH063A	TRA00005	TRA00011	PLN00865	PLN00932	PLN00874	PLN00947
TUD120R9V5H	TXH041A / TXH054A	N/A	TRA00014	PLN00864	PLN00931	PLN00873	PLN00946
TUD140C/R960H	RXH063/TXH063A	TRA00005	TRA00011	PLN00865	PLN00932	PLN00874	PLN00947

*TUE Upflow Horizontal Single Stage, Trenton*

SERVICEFIRST ITEM NO	COIL MODEL #	TRANSITION		SUPPLY PLENUM (3 FEET)		SUPPLY PLENUM	SUPPLY PLENUM (4 FEET)
		1" LINER	1-1/2" LINER	1" LINER	1-1/2" LINER	1" LINER	1-1/2" LINER
TUE040A924K	TXH025A / TXH033A	TRA00001	TRA00007	PLN00863	PLN00930	PLN00872	PLN00945
TUE060A936K	TXH041A / TXH054A	TRA00016	TRA00017	PLN00864	PLN00931	PLN00873	PLN00946
TUE060A936K	TXH025A / TXH033A	TRA00001	TRA00007	PLN00863	PLN00930	PLN00872	PLN00945
TUE080A936K	TXH033A	TRA00002	TRA00008	PLN00863	PLN00930	PLN00872	PLN00945
TUE080A936K	TXH041A / TXH054A	TRA00006	TRA00012	PLN00864	PLN00931	PLN00873	PLN00946
TUE080A948K	TXH041A / TXH054A	TRA00006	TRA00012	PLN00864	PLN00931	PLN00873	PLN00946
TUE100A948/60	TXH041A / TXH054A	TRA00003	TRA00009	PLN00864	PLN00931	PLN00873	PLN00946
TUE100A960K	RXH063/TXH063A	TRA00004	TRA00010	PLN00865	PLN00932	PLN00874	PLN00947
TUE120A960K	RXH063/TXH063A	TRA00005	TRA00011	PLN00865	PLN00932	PLN00874	PLN00947

**HVAC Supplies and Accessories**

# HVAC Supplies and Accessories

## Sheet Metal Accessories by McDaniel Metals

### Cross Reference Sheet

Cross Reference for TUD Upflow Gas Furnace, Trenton TUE Upflow Horizontal Single Stage, Trenton

*TUD Upflow Gas Furnace, Trenton*

SERVICEFIRST ITEM NO	COIL MODEL #	RETURN PLANUM (3 FEET)			RETURN PLANUM (4 FOOT)	ACOMMODATOR FILTER HOUSING		HORIZONTAL FILTER HOUSING		EMERGENCY PAN
		1" LINER	1-1/2" LINER	1-1/2" LINER	3-3/4" (HEIGHT)	5-3/4" (HEIGHT)	HRB20	HRB25		
TUD040C/R924H	TXH025A / TXH033A	PLN00862	PLN00929	PLN00944	HUS03524	HUS03520	HUS03520	HUS03549	PAN02213	
TUD080C/R948H	TXH041A / TXH054A	PLN00862	PLN00929	PLN00944	HUS03525	HUS03521	HUS03521	HUS03549	PAN02213	
TUD080C924H	TXH025H / TXH033A	PLN00862	PLN00929	PLN00944	HUS03525	HUS03521	HUS03521	HUS03549	PAN02213	
TUD080R9V3H	TXH041A / TXH054A	PLN00862	PLN00929	PLN00944	HUS03525	HUS03521	HUS03521	HUS03549	PAN02213	
TUD080R9V3H	TXH033A	PLN00862	PLN00929	PLN00944	HUS03525	HUS03521	HUS03521	HUS03549	PAN02213	
TUD100C/R936H	TXH033A	PLN00862	PLN00929	PLN00944	HUS03525	HUS03521	HUS03521	HUS03549	PAN02213	
TUD100C/R948H	TXH041A / TXH054A	PLN00862	PLN00929	PLN00944	HUS03525	HUS03521	HUS03521	HUS03549	PAN02213	
TUD100C/R960H	RXH063/TXH063A	PLN00862	PLN00929	PLN00944	HUS03526	HUS03522	HUS03522	HUS03549	PAN02213	
TUD100C/R961H	RXH063/TXH063A	PLN00862	PLN00929	PLN00944	HUS03523	HUS03527	HUS03527	HUS03549	PAN02213	
TUD100C945H	TXH041A / TXH054A	PLN00862	PLN00929	PLN00944	HUS03525	HUS03521	HUS03521	HUS03549	PAN02213	
TUD100R9V5H	RXH063/TXH063A	PLN00862	PLN00929	PLN00944	HUS03526	HUS03522	HUS03522	HUS03549	PAN02213	
TUD040C930H	TXH025A / TXH033A	PLN00862	PLN00929	PLN00944	HUS03524	HUS03520	HUS03520	HUS03549	PAN02213	
TUD100R9V5H	TXH041A / TXH054A	PLN00862	PLN00929	PLN00944	HUS03527	HUS03523	HUS03523	HUS03549	PAN02213	
TUD120C/R954H	RXH063/TXH063A	PLN00862	PLN00929	PLN00944	HUS03526	HUS03522	HUS03522	HUS03549	PAN02213	
TUD120C/R954H	TXH054A	PLN00862	PLN00929	PLN00944	HUS03526	HUS03522	HUS03522	HUS03549	PAN02213	
TUD120C/R960H	RXH063/TXH063A	PLN00862	PLN00929	PLN00944	HUS03527	HUS03523	HUS03523	HUS03549	PAN02213	
TUD120R9V5H	RXH063/TXH063A	PLN00862	PLN00929	PLN00944	HUS03527	HUS03523	HUS03523	HUS03549	PAN02213	
TUD120R9V5H	TXH041A / TXH054A	PLN00862	PLN00929	PLN00944	HUS03527	HUS03523	HUS03523	HUS03549	PAN02213	
TUD140C/R960H	RXH063/TXH063A	PLN00862	PLN00929	PLN00944	HUS03527	HUS03523	HUS03523	HUS03549	PAN02213	
TUD060A936K	TXH041A / TXH054A	PLN00862	PLN00929	PLN00944	HUS03524	HUS03520	HUS03520	HUS03549	PAN02213	
TUD060C/R936H	TXH025A / TXH033A	PLN00862	PLN00929	PLN00944	HUS03524	HUS03520	HUS03520	HUS03549	PAN02213	
TUD060C924H	TXH025A / TXH033A	PLN00862	PLN00929	PLN00944	HUS03524	HUS03520	HUS03520	HUS03549	PAN02213	
TUD060R9V3H	TXH041A	PLN00862	PLN00929	PLN00944	HUS03525	HUS03521	HUS03521	HUS03549	PAN02213	
TUD060R9V3H	TXH033A	PLN00862	PLN00929	PLN00944	HUS03525	HUS03521	HUS03521	HUS03549	PAN02213	
TUD080C/R936H	TXH033A	PLN00862	PLN00929	PLN00944	HUS03525	HUS03521	HUS03521	HUS03549	PAN02213	
TUD080C/R936H	TXH041A	PLN00862	PLN00929	PLN00944	HUS03525	HUS03521	HUS03521	HUS03549	PAN02213	

*TUE Upflow Horizontal Single Stage, Trenton*

SERVICEFIRST ITEM NO	COIL MODEL #	RETURN PLANUM (3 FEET)			RETURN PLANUM (4 FOOT)	ACOMMODATOR FILTER HOUSING		HORIZONTAL FILTER HOUSING		EMERGENCY PAN
		1" LINER	1-1/2" LINER	1-1/2" LINER	3-3/4" (HEIGHT)	5-3/4" (HEIGHT)	HRB20	HRB25		
TUE040A924K	TXH025A / TXH033A	PLN00862	PLN00929	PLN00944	HUS03524	HUS03520	HUS03548	HUS03549	PAN02213	
TUE060A936K	TXH041A / TXH054A	PLN00862	PLN00929	PLN00944	HUS03524	HUS03520	HUS03548	HUS03549	PAN02213	
TUE060A936K	TXH025A / TXH033A	PLN00862	PLN00929	PLN00944	HUS03524	HUS03520	HUS03548	HUS03549	PAN02213	
TUE080A936K	TXH033A	PLN00862	PLN00929	PLN00944	HUS03525	HUS03521	HUS03548	HUS03549	PAN02213	
TUE080A936K	TXH041A / TXH054A	PLN00862	PLN00929	PLN00944	HUS03525	HUS03521	HUS03548	HUS03549	PAN02213	
TUE080A948K	TXH041A / TXH054A	PLN00862	PLN00929	PLN00944	HUS03525	HUS03521	HUS03548	HUS03549	PAN02213	
TUE100A948/60	TXH041A / TXH054A	PLN00862	PLN00929	PLN00944	HUS03526	HUS03522	HUS03548	HUS03549	PAN02213	
TUE100A960K	RXH063/TXH063A	PLN00862	PLN00929	PLN00944	HUS03526	HUS03522	HUS03548	HUS03549	PAN02213	
TUE120A960K	RXH063/TXH063A	PLN00862	PLN00929	PLN00944	HUS03527	HUS03523	HUS03548	HUS03549	PAN02213	

HVAC Supplies and Accessories

**Sheet Metal Accessories by McDaniel Metals**

**Cross Reference Sheet**

**Cross Reference for 4TEE, 4TEP, RWE and TWG Air Handlers, TWE Split System Cooling/Heat Pump**

*4TEE AIR HANDLER, VIDALIA (2-1/2 TO 5 TONS)*

SERVICEFIRST ITEM NO	SUPPLY PLENUM (3 FEET)		SUPPLY PLENUM (4 FEET)		RETURN PLANUM (3 FEET)		EMERGENCY PAN
	1" LINER	1-1/2" LINER	1" LINER	1-1/2" LINER	1" LINER	1-1/2" LINER	
4TEE3F31A1000A	PLN00856	PLN00923	PLN00866	PLN00938	PLN00862	PLN00929	PAN02343
4TEE3F37A1000A	PLN00857	PLN00924	PLN00867	PLN00939	PLN00862	PLN00929	PAN02343
4TEE3F40A1000A	PLN00858	PLN00925	PLN00868	PLN00940	PLN00862	PLN00929	PAN02343
4TEE3F49A1000A	PLN00858	PLN00925	PLN00868	PLN00940	PLN00862	PLN00929	PAN02343
4TEE3F65A1000A	PLN00858	PLN00925	PLN00868	PLN00940	PLN00862	PLN00929	PAN02343

*4TEP AIR HANDLER, VIDALIA (1-1/2 TO 5 TONS)*

SERVICEFIRST ITEM NO	SUPPLY PLENUM (3 FEET)		SUPPLY PLENUM (4 FEET)		RETURN PLANUM (3 FEET)		EMERGENCY PAN
	1" LINER	1-1/2" LINER	1" LINER	1-1/2" LINER	1" LINER	1-1/2" LINER	
4TEP3F18A1000A	PLN00856	PLN00923	PLN00866	PLN00938	PLN00862	PLN00929	PAN02343
4TEP3F24A1000A	PLN00856	PLN00923	PLN00866	PLN00938	PLN00862	PLN00929	PAN02343
4TEP3F30A1000A	PLN00856	PLN00923	PLN00866	PLN00938	PLN00862	PLN00929	PAN02343
4TEP3F36A1000A	PLN00856	PLN00923	PLN00866	PLN00938	PLN00862	PLN00929	PAN02343
4TEP3F42A1000A	PLN00857	PLN00924	PLN00867	PLN00939	PLN00862	PLN00929	PAN02343
4TEP3F48A1000A	PLN00858	PLN00925	PLN00868	PLN00940	PLN00862	PLN00929	PAN02343
4TEP3F63A1000A	PLN00858	PLN00925	PLN00868	PLN00940	PLN00862	PLN00929	PAN02343

*RWE AIR HANDLER, VIDALIA (3 TO 5 TONS)*

SERVICEFIRST ITEM NO	SUPPLY PLENUM (3 FEET)		SUPPLY PLENUM (4 FEET)		RETURN PLANUM (3 FEET)		EMERGENCY PAN
	1" LINER	1-1/2" LINER	1" LINER	1-1/2" LINER	1" LINER	1-1/2" LINER	
RWE037E13FB	PLN00857	PLN00924	PLN00867	PLN00939	PLN00862	PLN00929	PAN02343
RWE040E13FB	PLN00858	PLN00925	PLN00868	PLN00940	PLN00862	PLN00929	PAN02343
RWE049E13FB	PLN00858	PLN00925	PLN00868	PLN00940	PLN00862	PLN00929	PAN02343
RWE065E13FB	PLN00858	PLN00925	PLN00868	PLN00940	PLN00862	PLN00929	PAN02343

*TWE SPLIT SYSTEM COOLING/HEAT PUMP, FT. SMITH/CLARKSVILLE (5 TO 20 TONS)*

SERVICEFIRST ITEM NO	SUPPLY PLENUM (3 FEET)		SUPPLY PLENUM (4 FEET)		RETURN PLANUM (3 FEET)		EMERGENCY PAN
	1" LINER	1-1/2" LINER	1" LINER	1-1/2" LINER	1" LINER	1-1/2" LINER	
TWE018C140A	PLN00856	PLN00923	PLN00866	PLN00938	PLN00862	PLN00929	PAN02212
TWE018P130A	PLN00856	PLN00923	PLN00866	PLN00938	PLN00862	PLN00929	PAN02212
TWE024C140A	PLN00856	PLN00923	PLN00866	PLN00938	PLN00862	PLN00929	PAN02212
TWE024P130A	PLN00856	PLN00923	PLN00866	PLN00938	PLN00862	PLN00929	PAN02212
TWE030C140A	PLN00856	PLN00923	PLN00866	PLN00938	PLN00862	PLN00929	PAN02212
TWE030P130A	PLN00856	PLN00923	PLN00866	PLN00938	PLN00862	PLN00929	PAN02212
TWE031E13FB	PLN00856	PLN00923	PLN00866	PLN00938	PLN00862	PLN00929	PAN02212
TWE036C140A	PLN00856	PLN00923	PLN00866	PLN00938	PLN00862	PLN00929	PAN02212
TWE036P130A	PLN00856	PLN00923	PLN00866	PLN00938	PLN00862	PLN00929	PAN02212
TWE037E13FB	PLN00857	PLN00924	PLN00867	PLN00939	PLN00862	PLN00929	PAN02343
TWE040E13FB	PLN00858	PLN00925	PLN00868	PLN00940	PLN00862	PLN00929	PAN02343
TWE042C140A	PLN00857	PLN00924	PLN00867	PLN00939	PLN00862	PLN00929	PAN02212
TWE042P130A	PLN00857	PLN00924	PLN00867	PLN00939	PLN00862	PLN00929	PAN02212
TWE048C140B	PLN00857	PLN00924	PLN00867	PLN00939	PLN00862	PLN00929	PAN02212
TWE048P130A	PLN00858	PLN00925	PLN00868	PLN00940	PLN00862	PLN00929	PAN02212
TWE049E13FB	PLN00858	PLN00925	PLN00868	PLN00940	PLN00862	PLN00929	PAN02343
TWE060D150A	PLN00857	PLN00924	PLN00867	PLN00939	PLN00862	PLN00929	PAN02212
TWE060P130A	PLN00858	PLN00925	PLN00868	PLN00940	PLN00862	PLN00929	PAN02212
TWE063P130A	PLN00858	PLN00925	PLN00868	PLN00940	PLN00862	PLN00929	PAN02212
TWE065E13FB	PLN00858	PLN00925	PLN00868	PLN00940	PLN00862	PLN00929	PAN02343

**HVAC Supplies and Accessories**

# HVAC Supplies and Accessories

## Sheet Metal Accessories by McDaniel Metals

### Cross Reference Sheet

Cross Reference for 4TEE, 4TEP, RWE and TWG Air Handlers, TWE Split System Cooling/Heat Pump

*TWG CONVERTIBLE AIR HANDLER, TYLER (1.5 TO 5 TONS)*

SERVICEFIRST ITEM NO	SUPPLY PLENUM (3 FEET)		SUPPLY PLENUM (4 FEET)		RETURN PLANUM (3 FEET)		EMERGENCY PAN
	1" LINER	1-1/2" LINER	1" LINER	1-1/2" LINER	1" LINER	1-1/2" LINER	
TWG018A140A	PLN00958	PLN00963	PLN00973	PLN00978	PLN00862	PLN00929	PAN02212
TWG025A140A	PLN00959	PLN00964	PLN00974	PLN00979	PLN00862	PLN00929	PAN02212
TWG030A140A	PLN00959	PLN00964	PLN00974	PLN00979	PLN00862	PLN00929	PAN02212
TWG036A140A	PLN00959	PLN00964	PLN00974	PLN00979	PLN00862	PLN00929	PAN02212
TWG037A140A	PLN00856	PLN00923	PLN00866	PLN00938	PLN00862	PLN00929	PAN02212
TWG042A140A	PLN00857	PLN00924	PLN00867	PLN00939	PLN00862	PLN00929	PAN02212
TWG048A140A	PLN00857	PLN00924	PLN00867	PLN00939	PLN00862	PLN00929	PAN02212
TWG060A150A	PLN00857	PLN00924	PLN00867	PLN00939	PLN00862	PLN00929	PAN02212

### (Continued) Cross Reference Sheet

Cross Reference for 4TEE, 4TEP, RWE and TWG Air Handlers, TWE Split System Cooling/Heat Pump

*4TEE AIR HANDLER, VIDALIA (2-1/2 TO 5 TONS)*

SERVICEFIRST ITEM NO	RETURN PLANUM	ACOMMODATOR FILTER HOUSING		HORIZONTAL FILTER HOUSING		EMERGENCY PAN
	1-1/2" LINER	3-3/4" (HEIGHT)	5-3/4" (HEIGHT)	HRB20	HRB25	
4TEE3F31A1000A	PLN00944	HUS03535	HUS03530	HUS03548	HUS03549	PAN02343
4TEE3F37A1000A	PLN00944	HUS03536	HUS03531	HUS03548	HUS03549	PAN02343
4TEE3F40A1000A	PLN00944	HUS03536	HUS03531	HUS03548	HUS03549	PAN02343
4TEE3F49A1000A	PLN00944	HUS03536	HUS03531	HUS03548	HUS03549	PAN02343
4TEE3F65A1000A	PLN00944	HUS03536	HUS03531	HUS03548	HUS03549	PAN02343

*4TEP AIR HANDLER, VIDALIA (1-1/2 TO 5 TONS)*

SERVICEFIRST ITEM NO	RETURN PLANUM (4 FOOT)	ACOMMODATOR FILTER HOUSING		HORIZONTAL FILTER HOUSING		EMERGENCY PAN
	1-1/2" LINER	3-3/4" (HEIGHT)	5-3/4" (HEIGHT)	HRB20	HRB25	
4TEP3F42A1000A	PLN00944	HUS03536	HUS03531	HUS03548	HUS03549	PAN02343
4TEP3F48A1000A	PLN00944	HUS03536	HUS03531	HUS03548	HUS03549	PAN02343
4TEP3F63A1000A	PLN00944	HUS03536	HUS03531	HUS03548	HUS03549	PAN02343
4TEP3F18A1000A	PLN00944	HUS03535	HUS03530	HUS03548	HUS03549	PAN02343
4TEP3F24A1000A	PLN00944	HUS03535	HUS03530	HUS03548	HUS03549	PAN02343
4TEP3F30A1000A	PLN00944	HUS03535	HUS03530	HUS03548	HUS03549	PAN02343
4TEP3F36A1000A	PLN00944	HUS03535	HUS03530	HUS03548	HUS03549	PAN02343

*RWE AIR HANDLER, VIDALIA (3 TO 5 TONS)*

SERVICEFIRST ITEM NO	RETURN PLANUM (4 FOOT)	ACOMMODATOR FILTER HOUSING		HORIZONTAL FILTER HOUSING		EMERGENCY PAN
	1-1/2" LINER	3-3/4" (HEIGHT)	5-3/4" (HEIGHT)	HRB20	HRB25	
RWE037E13FB	PLN00944	HUS03536	HUS03531	HUS03548	HUS03549	PAN02343
RWE040E13FB	PLN00944	HUS03536	HUS03531	HUS03548	HUS03549	PAN02343
RWE049E13FB	PLN00944	HUS03536	HUS03531	HUS03548	HUS03549	PAN02343
RWE065E13FB	PLN00944	HUS03536	HUS03531	HUS03548	HUS03549	PAN02343



**Sheet Metal Accessories by McDaniel Metals**

**(Continued) Cross Reference Sheet**

**Cross Reference for 4TEE, 4TEP, RWE and TWG Air Handlers, TWE Split System Cooling/Heat Pump**

*TWE SPLIT SYSTEM COOLING/HEAT PUMP, FT. SMITH/CLARKSVILLE (5 TO 20 TONS)*

SERVICEFIRST ITEM NO	RETURN PLANUM (4 FOOT)	ACOMMODATOR FILTER HOUSING		HORIZONTAL FILTER HOUSING		
	1-1/2" LINER	3-3/4" (HEIGHT)	5-3/4" (HEIGHT)	HRB20	HRB25	EMERGENCY PAN
TWE018C140A	PLN00944	HUS03535	HUS03530	HUS03548	HUS03549	PAN02212
TWE018P130A	PLN00944	HUS03535	HUS03530	HUS03548	HUS03549	PAN02212
TWE024C140A	PLN00944	HUS03535	HUS03530	HUS03548	HUS03549	PAN02212
TWE024P130A	PLN00944	HUS03535	HUS03530	HUS03548	HUS03549	PAN02212
TWE030C140A	PLN00944	HUS03535	HUS03530	HUS03548	HUS03549	PAN02212
TWE030P130A	PLN00944	HUS03535	HUS03530	HUS03548	HUS03549	PAN02212
TWE031E13FB	PLN00944	HUS03535	HUS03530	HUS03548	HUS03549	PAN02212
TWE036C140A	PLN00944	HUS03535	HUS03530	HUS03548	HUS03549	PAN02212
TWE036P130A	PLN00944	HUS03535	HUS03530	HUS03548	HUS03549	PAN02212
TWE037E13FB	PLN00944	HUS03535	HUS03530	HUS03548	HUS03549	PAN02343
TWE040E13FB	PLN00944	HUS03535	HUS03530	HUS03548	HUS03549	PAN02343
TWE042C140A	PLN00944	HUS03535	HUS03530	HUS03548	HUS03549	PAN02212
TWE042P130A	PLN00944	HUS03535	HUS03530	HUS03548	HUS03549	PAN02212
TWE048C140B	PLN00944	HUS03535	HUS03530	HUS03548	HUS03549	PAN02212
TWE048P130A	PLN00944	HUS03535	HUS03530	HUS03548	HUS03549	PAN02212
TWE049E13FB	PLN00944	HUS03535	HUS03530	HUS03548	HUS03549	PAN02343
TWE060D150A	PLN00944	HUS03535	HUS03530	HUS03548	HUS03549	PAN02212
TWE060P130A	PLN00944	HUS03535	HUS03530	HUS03548	HUS03549	PAN02212
TWE063P130A	PLN00944	HUS03535	HUS03530	HUS03548	HUS03549	PAN02212
TWE065E13FB	PLN00944	HUS03535	HUS03530	HUS03548	HUS03549	PAN02343

*TWG CONVERTIBLE AIR HANDLER, TYLER (1.5 TO 5 TONS)*

SERVICEFIRST ITEM NO	RETURN PLANUM (4 FOOT)	ACOMMODATOR FILTER HOUSING		HORIZONTAL FILTER HOUSING		
	1-1/2" LINER	3-3/4" (HEIGHT)	5-3/4" (HEIGHT)	HRB20	HRB25	EMERGENCY PAN
TWG018A140A	PLN00944	HUS03535	HUS03530	HUS03548	HUS03549	PAN02212
TWG025A140A	PLN00944	HUS03535	HUS03530	HUS03548	HUS03549	PAN02212
TWG030A140A	PLN00944	HUS03535	HUS03530	HUS03548	HUS03549	PAN02212
TWG036A140A	PLN00944	HUS03535	HUS03530	HUS03548	HUS03549	PAN02212
TWG037A140A	PLN00944	HUS03535	HUS03530	HUS03548	HUS03549	PAN02212
TWG042A140A	PLN00944	HUS03535	HUS03530	HUS03548	HUS03549	PAN02212
TWG048A140A	PLN00944	HUS03535	HUS03530	HUS03548	HUS03549	PAN02212
TWG060A150A	PLN00944	HUS03535	HUS03530	HUS03548	HUS03549	PAN02212

**Air Conditioning Whips by Baron**

**Metallic Fittings**



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
KIT08232	57504, 57504-T0-00	3/4" x 4'
KIT08233	57506, 57506-T0-00	3/4" x 6'
KIT08230	57514, 57514-T0-00	1/2" x 4'
KIT08231	57516, 57516-T0-00	1/2" x 6'

**PVC Fittings**

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
KIT08228	57505, 57505-T0-00	3/4" x 4'
KIT08226	57515, 57507-T0-00	1/2" x 4'
KIT08229	57507, 57515-T0-00	3/4" x 6'
KIT08227	57517, 57517-T0-00	1/2" x 6'

**HVAC Supplies and Accessories**

# HVAC Supplies and Accessories

## Alkaline Industrial Batteries



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
BAT00006	AL-C	C size alkaline 6 pack
BAT00007	AL-D	D size alkaline 6 pack
BAT00008	AL-AA	AA size alkaline 6 pack
BAT00009	AL-AAA	AAA size alkaline 6 pack
BAT00010	AL-9V	9-volt size alkaline 6 pack

## CO2 Sensors by TELAIRE



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
SEN01034	8001	Wall-mount w/o display
SEN01010	8002	Wall-mount w/o display
SEN01081	1308	Hand-held CO2/temperature monitor
SEN01086	7001	Sensor, TELAIRE hand-held, battery powered carbon dioxide and temperature
KIT07826	2075	Kit, calibration kit for 8000 series and 7001 sensors from TELAIRE
KIT07827	2072	Kit, user interface program for TELAIRE 8000 series sensors, software and cable
BOX01459	1508	Box, aspiration box for duct mounting TELAIRE 8000 series sensors
SER00004	SERVICE	Service, factory calibration service for TELAIRE 8000 series and 7001 sensors
SEN01082	8007	Sensor, TELAIRE Ventostat 8007, duct mounted, no display, carbon dioxide
SEN01083	8008	Sensor, TELAIRE Ventostat 8008, duct mounted, with display, carbon dioxide
SEN01077	1380	Sensor, TELAIRE Blaq Box, measures temp, RH, CO, CO2, TELAIRE no. 1380

## Condensate Pumps by Little Giant

### 34C-SPT



Features • Permanently lubricated • Epoxy coated cast aluminum housing • Automatic, in-pan design • Leak proof, rust proof, ABS plastic tank • 1/2" MNPT discharge with check valve for 1/2" • OD rigid-plastic or copper tubing • 26' max lift Construction • Motor - 1/12 HP • Intermittent Liquid Temp. up to -120° F • Intake - N/A • Discharge - 1/2" MNPT • Housing - Epoxy coated cast aluminum • Cover - Epoxy coated cast aluminum • Volute - Nylon • Impeller - Nylon • Shaft Seal - Nitrile • Screen - Polyethylene

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Discharge Size
PMP01079	551301	1/2" MNPT



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
PMP01268	554405	VCMA-15ULS, pump; 115V, 1/50 Hp, 65 gph @ 1', to 30 gph @ 9' 1/2 gal tank, 15 ft head, w/safety switch, 6 lbs, 7 x 9 1/4 x 4 1/2
PMP01269	554401	VCMA-15ULS, pump; 115V, 1/50 Hp, 65 gph @ 1', to 30 gph @ 9' 1/2 gal tank, 15 ft head, wo/safety switch, 6 lbs, 7 x 9 1/4 x 4 1/2
PMP01271	554425	VCMA-20ULS, pump; 115V, 1/30 Hp, 80 gph @ 1', to 25 gph @ 15' 1/2 gal tank, 20 ft head, w/SS, 6.3 lbs, 7 x 9 1/4 x 4 1/2
PMP01273	554455	VCMA-20ULS 230V, pump; 230V, 1/30 Hp, 80 gph @ 1', to 25 gph @ 15' compact, 1/2 gal tank, 17 ft head, w/SS, 6.3 lbs, 7 x 9 1/4 x 4 1/2
CNT02511	599122	Control, switch, safety overflow, 48VAC/PC, w/18" leads
IND00048	513350	HW-9, indicator; alarm, high water indicator, 9 Volts
PMP01424	553455	Pump, 115V, condensate for small mini split
PMP01425	553450	Pump; 230V, 50/60 HZ, condensate for small mini split

**Condensate Pumps by Little Giant**

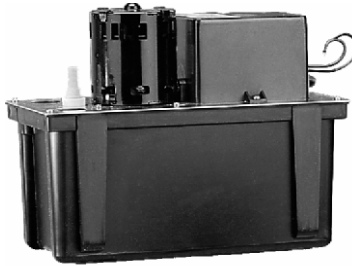
**VCC-20 Series**



Features • Low profile compact size • Vertical type pump unit • Leakproof, rustproof, ABS tank • Stainless steel motor shaft • Safety switch included • 20' shut-off head • 6' power cord • UL/CSA listed • Thermal overload protected • Suitable for High-Efficiency, gas furnace condensate • 3/8" O.D. barbed discharge adapter  
Construction • Motor-1/30HP • Intermittent Liquid Temp. up to - 120° F • Discharge - 3/8" OD barbed • Housing - ABS • Cover - ABS • Volute - ABS • Impeller - Glass filled polypropylene

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Discharge Size	Listing(s)
PMP01002	554200	3/8" OD Barbed	UL/CSA
PMP01025	554210	3/8" OD Barbed	UL

**VCL-14 Series**



Features • Vertical type pump unit • Leakproof, rustproof, ABS tank • ABS switch cover and pump stand • Galvanized steel tank cover • Stainless steel motor shaft • Safety Switch included • 14' shut-off head • UL/CSA listed • Thermal overload protected • 3/8" O.D. Barbed discharge adapter  
Construction • Motor-1/50HP • Intermittent Liquid Temp. up to - 120° F • Discharge - 3/8" barbed • Housing - N/A • Cover - Galvanized steel • Volute - ABS • Impeller - Polypropylene • Shaft Seal - N/A • Screen - ABS • Electrical - 115 V, 60 Hz, 1.0 Amps, • Thermally protected

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Discharge Size	Listing(s)
PMP01019	553101	3/8" OD Barbed	UL/CSA

**VCL-24 Series**

*VCL-24 Series*



Features • Vertical type pump unit • Leakproof, rustproof, ABS tank • ABS switch cover and pump stand • Galvanized steel tank cover • Stainless Steel motor shaft • Safety Switch included on "S" models • 24' shut-off head • UL/CSA listed • Thermal overload protected • 3/8" O.D. barbed discharge adapter • Motor-1/18HP  
Construction • Intermittent Liquid Temp. up to - 120° F • Discharge - 3/8" barbed • Housing - N/A • Cover - Galvanized steel • Volute - ABS • Impeller - Polypropylene • Shaft Seal - N/A • Screen - ABS

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Discharge Size	Listing(s)
PMP01021	553206	3/8" OD Barbed	UL/CSA
PMP01020	553201	3/8" OD Barbed	UL/CSA

**VCL-45 Series**



Features • Vertical type pump unit • Leakproof, rustproof, ABS tank • ABS switch cover and pump stand • Galvanized steel tank cover • Stainless Steel motor shaft • Safety Switch included • 45' shut-off head • UL/CSA listed • Thermal overload protected • 3/8" O.D. Copper tube discharge  
Construction • Motor-1/5HP • Intermittent Liquid Temp. up to - 120° F • Discharge - 3/8" O.D. • Housing - N/A • Cover - Galvanized steel • Volute - ABS • Impeller - Polypropylene • Shaft Seal - N/A • Screen - ABS

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Discharge Size	Listing(s)
PMP01023	553240	3/8" OD Copper	UL/CSA
PMP01085	553245	3/8" OD Copper	UL/CSA

# HVAC Supplies and Accessories

## Condensate Pumps by Little Giant

### VCMA-15 Series

VCMA-15 Series



Features • Vertical type pump unit • 1/2 gallon Leakproof, rustproof, ABS tank with mounting tabs • Stainless steel motor shaft • 3 drain holes • Optional Safety Switch • 15' shut-off head • 6' power cord • UL/CSA listed • Thermal overload protected • Suitable for High-Efficiency, gas furnace condensate • 3/8" O.D. barbed discharge adapter Construction • Motor-1/60HP • Intermittent Liquid Temp. up to - 120° F • Discharge - 3/8" OD barbed • Housing - ABS • Cover - ABS • Volute - Glass filled polypropylene • Impeller - Glass filled polypropylene

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Discharge Size	Listing(s)
PMP01275	554415	3/8" OD Barbed	UL/CSA

### VCMA-20 Series



Features • Vertical type pump unit • 1/2 gallon Leakproof, rustproof, ABS tank mounting tabs • Stainless steel motor shaft • 3 drain holes • Optional Safety Switch • 20' shut-off head • 6' power cord • UL/CSA listed • Thermal overload protected • Suitable for High-Efficiency, gas furnace condensate • 3/8" O.D. barbed discharge adapter Construction • Motor-1/30HP • Intermittent Liquid Temp. up to - 120° F • Discharge - 3/8" OD barbed • Housing - ABS • Cover - ABS • Volute - Glass filled polypropylene • Impeller - Glass filled polypropylene

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Discharge Size	Listing(s)
PMP01270	554421	3/8" OD Barbed	UL/CSA
PMP01272	554451	3/8" OD Barbed	UL
PMP01278	554435	3/8" OD Barbed	UL/CSA
PMP01277	554461	3/8" OD Barbed	UL

### Condensate Overflow Safety Switch, Low-Voltage



Low-Voltage Condensate Overflow Safety Switch

Fluid Systems Design Parameters - Little Giant ACS-2 Safety Switch (599123):

- Auxiliary condensate switch installs in the condensate drain pan of an air conditioning or refrigeration unit, to turn off the unit if the drain pan approaches overflow.
- ABS housing • 5 amps max
- Polyethylene float • Low voltage
- 48VAC/VDC max. • 72" lead wires

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Description
CNT02511	ACS-2, 599122	48V AC/DC, 5 Amps Max - Auxiliary condensate switch, 18" lead wires
CNT03678	ACS-2, 599123	48V AC/DC, 5 Amps Max -Auxiliary condensate switch,72" lead wires

### Condensate Overflow Safety Switch ACS Series



- Easy to install, inspect and maintain
- Compact design mounts to side of A/C condensate drain pans
- Detects high condensate levels in drain pans and shuts off the system
- Can be installed to activate audible or visual alarm circuitry
- UR/cCSA listed, complies with applicable building codes

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
SWT02860	ACS-3, 199124	125-250 VAC, 11A, 1/3 HP -Auxiliary condensate switch, 72" lead wires
SWT02869	ACS-4, 199125	24V AC, 5 Amp Max - Auxiliary condensate switch, 72" lead wires

**Condensate Pumps by Little Giant**

**RS-5 Piggyback Diaphragm Switch**



Converts any manual pump, up through 1/2 HP (10 max. run amps), to automatic. When mounted to 5-MSP or 6-CIM-R pump, "on" level range is 6" - 9" (15.2cm - 22.8cm), "off" level range is 1" - 4" (2.54cm - 10.2cm).

Specifications - Little Giant RS-5 Piggyback Diaphragm Switch (599008):

- 115V
- 10' Power cord
- CSA Listed
- UL Certified

SERVICEFIRST ITEM NO	VENDOR ITEM NO
PMP01029	599008

**Clear Vinyl Tubing**



Fits 3/8" barbed discharge on check valve CV-10, or on any "VC" series pump.

- 3/8" I.D x 10' Roll

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
TUB09271	599033	One carton of 25 pieces of 20' length 3/8" ID VC tubing
TUB09270	599107	100' of 3/8" ID x 1/2" OD

**Check Valve**

**CV-10**



Description

Little Giant CV-10 Check Valve (599065)

The 599065 model is a check valve for pump series VCC, VCMA and VCL-14/24. 1/4" MNPT to 3/8" ID vinyl tubing.

SERVICEFIRST ITEM NO	VENDOR ITEM NO
VAL06602	CV-10 599065

**CV-2**

**Check Valve**



Description

Little Giant CV-2 Check Valve (599061)

The 599061 model is a check valve for pump 1-ABS or 2EC-SPT. 1/4" FNPT to 1/4" OD tubing.

SERVICEFIRST ITEM NO	VENDOR ITEM NO
VAL06600	CV-2 599061

**CV-35**



Description

Little Giant CV-35 Check Valve (599064)

The 599064 model is a check valve for pump VCL-45ULS. 3/8" rigid-plastic or copper tubing on both ends.

SERVICEFIRST ITEM NO	VENDOR ITEM NO
VAL06601	CV-35 599064

# HVAC Supplies and Accessories

## Condensing Unit Covers

### Innerflow™ System

#### Innerflow Cover Model Number

#### American Standard Condensing Unit Covers



"The Innerflow system is molded from a highly durable PVC material, attached to our custom-made covers. This specially engineered section allows air to move freely throughout the covered air conditioning unit, yet prevents rain and snow from entering, keeping it dry and free of damaging condensation."

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Fits Trane Model No	Description H X W X D
COV03662	AMSCV-100	2A7A3018A1000A, 2A7B3018A1000A	26 X 29 X 26
COV03664	AMSCV-124	2A7A3024A1000A, 2A7B3024A1000A	33 X 29 X 26
COV03665	AMSCV-136	4A7A4018B1000A, 4A7A4024B1000A, 4A7A4030B1000A, 2A7A4018B1000A, 2A7A4024B1000A, 2A7A4030B1000A, 2A7A3030A1000A, 2A7A3036A1000A, 2A7B3030A1000A, 2A7B3036A1000A, 2A7A2042B1000A	33 X 33 X 30
COV03666	AMSCV-148	4A7A6024B1000A, 4A7A4036B1000A, 2A7A4036B1000A	37 X 33 X 30
COV03668	AMSCV-167	4A7A6036B1000A, 2A7A3042A1000A, 2A7B3042A1000A	33 X 37 X 34
COV03669	AMSCV-175	2A7A5024A1000A, 2A7A5030A1000A, 4A7A4042B1000A, 2A7A4042B1000A	37 X 37 X 34
COV03670	AMSCV-188	2A7B3060A1000A, 2A7A2060B1000B	41 X 37 X 34
COV03670	AMSCV-188	2A7A8030B1000A, 2A7A8036B1000A, 2A7A8048B1000A, 2A7A8060B1000A, 4A7A6048B1000A, 4A7A6060B1000A, 2A7A5036A1000A, 2A7A5042A1000A, 2A7A5048A1000A, 4A7A4048B1000A, 4A7A4060C1000A, 2A7A4048B1000A, 2A7A4060B1000A, 2A7A3048A1000A, 2A7A3060A1000A, 2A7B3048A1000A,	41 X 37 X 34

**Condensing Unit Covers**

**Innerflow™ System**

**Innerflow Cover Model Number**

*Trane Condensing Unit Covers*



"The Innerflow system is molded from a highly durable PVC material, attached to our custom-made covers. This specially engineered section allows air to move freely throughout the covered air conditioning unit, yet prevents rain and snow from entering, keeping it dry and free of damaging condensation."

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Fits Trane Model No	Description H X W X D
COV03509	TRCV267	2TTR3018A1000A	26 X 29 X 26
COV03512	TRCV323	2TTR3024A1000A	33 X 29 X 26
COV03513	TRCV382	2TTR4018A1000A, 2TTR4024A1000A, 4TTR4018A1000A, 4TTR4024A1000A, 4TTR4030A1000A, 2TTR3030A1000A, 2TTR3036A1000A	33 X 33 X 30
COV03514	TRCV419	2TTR4030A1000A, 2TTR4036A1000A, 4TTR4036A1000A	37 X 33 X 30
COV03516	TRCV443	2TTR3042A1000A	33 X 37 X 34
COV03517	TRCV442	2TTX4018B1000A, 2TTX4024B1000A, 2TTX4030B1000A, 4TTX4018B1000A, 4TTX4042B1000A, 4TTX4036B1000A	40 X 33 X 30
COV03518	TRCV479	4TTX6024B1000A, 2TTX4036B1000A, 4TTX4036B1000A	44 X 33 X 30
COV03520	TRCV541	4TTX6036B1000A	42 X 37 X 34
COV03521	TRCV580	2TTX5024A1000A, 2TTX5030A1000A, 2TTX4042B1000A, 4TTX4042B1000A	46 X 37 X 34
COV03522	TRCV622	2TTZ9030B1000A, 2TTZ9036B1000A, 2TTZ9048B1000A, 2TTZ9060B1000A, 4TTX6048B1000A, 4TTX6060B1000A, 2TTX5036A1000A, 2TTX5042A1000A, 2TTX5048A1000A, 2TTX4048B1000A, 2TTX4060B1000A, 4TTX4048B1000A, 4TTX4060C1000A	50 X 37 X 34
COV03623	TRCV629	2TTR4048A1000A, 2TTR4060A1000A, 4TTR4048A1000A, 4TTR4060B1000A, 2TTR3048A1000A, 2TTR3060A1000A	41 X 37 X 34
COV03745	TRCV637	4TTR4042A1000A	37 X 37 X 34

# HVAC Supplies and Accessories

## Copper Coil And Pipe by Wolverine (U.S. Only)

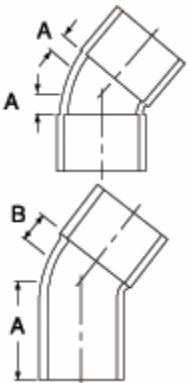
### Copper Coil by Wolverine

#### Refrigeration Coils ACR

SERVICEFIRST ITEM NO	LENGTH	LBS/PCS	DESCRIPTION	WALL THICKNESS
COI01017	50 ft.	1.65	18" OD.	0.03
COI01018	50 ft.	2.81	3/16" OD.	0.03
COI01019	50 ft.	3.81	1/4" OD.	0.03
COI01020	50 ft.	5.34	5/16" OD.	0.032
COI01021	50 ft.	6.5	3/8" OD.	0.032
COI01022	50 ft.	8.83	1/2" OD.	0.032
COI01023	50 ft.	12.17	5/8" OD.	0.035
COI01024	50 ft.	14.74	3/4" OD.	0.035
COI01025	50 ft.	22.05	7/8" OD.	0.045
COI01026	50 ft.	31.75	1 1/8" OD.	0.05
COI01027	50 ft.	42.85	1 3/8" OD.	0.055
COI01028	50 ft.	55.42	1 5/8" OD.	0.06

## Copper Fittings by Mueller

### 45° Elbow

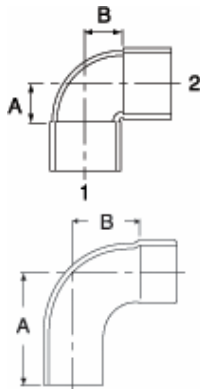


SERVICEFIRST ITEM NO	VENDOR ITEM NO	DIMENSION			APPROX NET WT	MUELLER STYLE	ELKHART STYLE	NIBCO STYLE	CONNECTION
		A	SIZE 1						
ELL00141	W03005	3/16	1/4	0.01	WE-504	106	9606	C X C	
ELL00893	W03012	3/16	3/8	0.01	WE-504	106	9606	C X C	
ELL00933	W03021	13/64	1/2	0.02	WE-504	106	9606	C X C	
ELL00895	W03026	17/64	5/8	0.04	WE-504	106	9606	C X C	
ELL00896	W03030	5/16	3/4	0.06	WE-504	106	9606	C X C	
ELL00897	W03034	23/64	7/8	0.1	WE-504	106	9606	C X C	
ELL00898	W03044	15/32	1 1/8	0.18	WE-504	106	9606	C X C	
ELL00899	W03050	7/16	1 3/8	0.21	WE-504	106	9606	C X C	
ELL00900	W03055	1/2	1 5/8	0.3	WE-504	106	9606	C X C	
ELL00901	W03059	5/8	2 1/8	0.55	WE-504	106	9606	C X C	
ELL00902	W03063	1 9/16	2 5/8	1.41	WE-504	106	9606	C X C	
ELL00931	W03067	1 21/32	3 1/8	1.87	WE-504	106	9606	C X C	
ELL00972	W03070	1 3/4	3 5/8	3.35	WE-504	106	9606	C X C	
ELL00903	W03312	9/16	3/8	0.01	WE-505	106-2	9606-2	FTG X C	
ELL00904	W03321	21/32	1/2	0.02	WE-505	106-2	9606-2	FTG X C	
ELL00327	W03326	13/16	5/8	0.04	WE-505	106-2	9606-2	FTG X C	
ELL00906	W03330	1	3/4	0.06	WE-505	106-2	9606-2	FTG X C	
ELL00907	W03334	1 11/64	7/8	0.1	WE-505	106-2	9606-2	FTG X C	
ELL00908	W03344	1 7/16	1 1/8	0.17	WE-505	106-2	9606-2	FTG X C	
ELL00909	W03350	1 13/16	1 3/8	0.31	WE-505	106-2	9606-2	FTG X C	
ELL00910	W03355	2 5/64	1 5/8	0.43	WE-505	106-2	9606-2	FTG X C	
ELL00911	W03359	2 41/64	2 1/8	0.86	WE-505	106-2	9606-2	FTG X C	
ELL00912	W03363	3 3/32	2 5/8	1.43	WE-505	106-2	9606-2	FTG X C	
ELL00913	W03368	3 3/8	3 1/8	1.92	WE-505	106-2	9606-2	FTG X C	



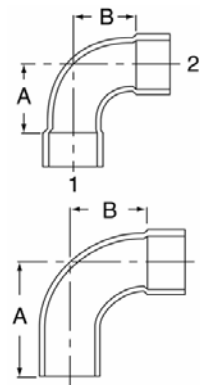
Copper Fittings by Mueller

90° Elbow—Close Rough



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DIMENSION			APPROX NET WT	MUELLER STYLE	ELKHART STYLE	NIBCO STYLE	CONNECTION
		A	B	SIZE 1					
ELL00235	W02003	38	38	1/4	0.01	WE-500	107-C	9607-1	C X C
ELL00101	W02009	38	38	3/8	0.02	WE-500	107-C	9607-1	C X C
ELL00114	W02017	1/2	1/2	1/2	0.03	WE-500	107-C	9607-1	C X C
ELL00109	W02022	1932	1932	5/8	0.05	WE-500	107-C	9607-1	C X C
ELL00094	W02028	7/8	7/8	3/4	0.1	WE-500	107-C	9607-1	C X C
ELL00111	W02034	5364	5364	7/8	0.11	WE-500	107-C	9607-1	C X C
ELL00875	W02040	1 1/8	1 1/8	1	0.22	WE-500	107-C	9607-1	C X C
ELL00115	W02047	1 5/64	1 5/64	1 1/8	0.2	WE-500	107-C	9607-1	C X C
ELL00877	W02084	1 3/32	1 3/32	1 3/8	0.31	WE-500	107-C	9607-1	C X C
ELL00203	W02085	1 7/32	1 7/32	1 5/8	0.43	WE-500	107-C	9607-1	C X C
ELL00325	W02086	1 9/16	1 9/16	2 1/8	0.86	WE-505	106-2	9606-2	FTG X C
ELL00878	W02087	11 3/16	11 3/16	2 5/8	1.4	WE-505	106-2	9606-2	FTG X C
ELL00918	W02088	2 1/16	2 1/16	3 1/8	1.99	WE-505	106-2	9606-2	FTG X C
ELL00920	W2305	3/4	3/8	1/4	0.01	WE-503	107-C-2	9607-2	C X C
ELL00921	W2312	3/4	3/8	1/2	0.02	WE-503	107-C-2	9607-2	C X C
ELL00100	W02321	15/16	1/2	1/2	0.03	WE-503	107-C-2	9607-2	C X C
ELL00922	W02326	1 5/32	1932	5/8	0.05	WE-503	107-C-2	9607-2	C X C
ELL00217	W02330	1 7/16	7/8	3/4	0.1	WE-503	107-C-2	9607-2	C X C
ELL00286	W02334	1 5/8	13/16	7/8	0.11	WE-503	107-C-2	9607-2	C X C
ELL00238	W02344	2 1/32	1 1/16	1 1/8	0.21	WE-503	107-C-2	9607-2	C X C
ELL00244	W02384	2 5/64	1 1/16	1 3/8	0.31	WE-503	107-C-2	9607-2	C X C
ELL00212	W02385	2 3/8	1 7/32	1 5/8	0.43	WE-503	107-C-2	9607-2	C X C
ELL00206	W02386	3 3/64	1 19/32	2 1/8	0.86	WE-503	107-C-2	9607-2	C X C
ELL00317	W02387	3 11/32	1 13/16	2 1/8	1.36	WE-503	107-C-2	9607-2	C X C
ELL00290	W02388	3 25/32	2 1/16	3 1/8	1.99	WE-503	107-C-2	9607-2	C X C

90° Elbow—Long Radius



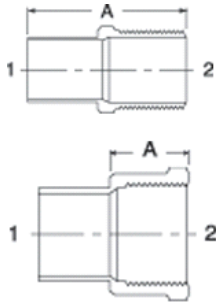
SERVICEFIRST ITEM NO	VENDOR ITEM NO	DIMENSION				APPROX NET WT	MUELLER STYLE	ELKHART STYLE	NIBCO STYLE	CONNECTION
		A	B	SIZE 1	BOX QTY					
ELL00951	W02701	5/16	5/16	3/16	50	0.01	WE-500L	107-L	9607-LT	C X C
ELL00882	W02715	1/2	1/2	1/4	50	0.01	WE-500L	107-L	9607-LT	C X C
ELL00881	W02710	9/16	9/16	5/16	50	0.01	WE-500L	107-L	9607-LT	C X C
ELL00883	W02716	3/4	3/4	3/8	50	0.02	WE-500L	107-L	9607-LT	C X C
ELL00046	W02717	3/4	3/4	1/2	50	0.04	WE-500L	107-L	9607-LT	C X C
ELL00884	W02722	7/8	7/8	5/8	50	0.06	WE-500L	107-L	9607-LT	C X C
ELL00885	W02728	1 1/8	1 1/8	3/4	50	0.11	WE-500L	107-L	9607-LT	C X C
ELL00016	W02734	1 3/16	1 3/16	7/8	25	0.15	WE-500L	107-L	9607-LT	C X C
ELL00019	W02747	1 1/2	1 1/2	1 1/8	10	0.26	WE-500L	107-L	9607-LT	C X C
ELL00932	W02054	1 7/8	1 7/8	1 1/4	50	0.33	WE-500L	107-L	9607-LT	C X C
ELL00018	W02055	1 7/8	1 7/8	1 3/8	10	0.44	WE-500L	107-L	9607-LT	C X C
ELL00050	W02063	2 1/4	2 1/4	1 5/8	5	0.61	WE-500L	107-L	9607-LT	C X C
ELL00010	W02072	2 7/8	2 7/8	2 1/8	5	1.19	WE-500L	107-L	9607-LT	C X C
ELL00349	W02082	3 21/32	3 21/32	2 5/8	5	2.06	WE-500L	107-L	9607-LT	C X C
ELL00919	W02092	4 5/8	4 5/8	3 1/8	2	3.05	WE-500L	107-L	9607-LT	C X C
ELL00925	W02093	4 29/32	4 29/32	3 5/8	1	4.95	WE-500L	107-L	9607-LT	C X C
ELL00886	W02809	1 1/8	3/4	5/16	50	0.03	WE-503L	107-L-2	9607-2-LT	FTG X C
ELL00215	W02817	1 3/16	3/4	3/8	50	0.04	WE-503L	107-L-2	9607-2-LT	FTG X C
ELL00888	W02822	1 3/8	7/8	1/2	50	0.07	WE-503L	107-L-2	9607-2-LT	FTG X C
ELL00889	W02828	1 13/16	1 1/8	5/8	25	0.11	WE-503L	107-L-2	9607-2-LT	FTG X C
ELL00890	W02834	2	1 3/16	3/4	25	0.15	WE-503L	107-L-2	9607-2-LT	FTG X C
ELL00891	W02847	2 15/32	1 1/2	7/8	10	0.27	WE-503L	107-L-2	9607-2-LT	FTG X C
ELL00879	W02350	2 29/32	1 7/8	1 1/8	10	0.42	WE-503L	107-L-2	9607-2-LT	FTG X C
ELL00205	W02355	3 7/16	2 1/4	1 1/4		0.6	WE-503L	107-L-2	9607-2-LT	FTG X C
ELL00207	W02359	4 9/32	2 7/8	2 1/8	5	1.21	WE-503L	107-L-2	9607-2-LT	FTG X C
ELL00880	W02363	5 5/32	3 21/32	2 5/8	5	2.08	WE-503L	107-L-2	9607-2-LT	FTG X C

HVAC Supplies and Accessories

# HVAC Supplies and Accessories

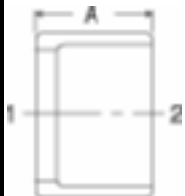
## Copper Fittings by Mueller

### Adapter



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DIMENSION A	SIZE		BOX QTY	APPROX NET WT	MUELLER STYLE	ELKHART STYLE	NIBCO STYLE	CONNECTION
			1	2						
ADP00924	W01106	4964	1/4	1/4	50	0.03	WC-401	104	9604	C X M
ADP00932	W01114	5364	3/8	3/8	50	0.06	WC-401	104	9604	C X M
ADP00907	W01115	2132	3/8	1/4	50	0.03	WC-401	104	9604	C X M
ADP00066	W01124	1316	1/2	1/2	50	0.09	WC-401	104	9604	C X M
ADP01013	W01125	2132	1/2	3/8	50	0.06	WC-401	104	9604	C X M
ADP01009	W01130	1516	5/8	3/4	25	0.16	WC-401	104	9604	C X M
ADP00383	W01131	1316	5/8	1/2	50	0.08	WC-401	104	9604	C X M
ADP01011	W01132	4164	5/8	3/8	50	0.06	WC-401	104	9604	C X M
ADP00926	W01138	1164	3/4	3/4	25	0.14	WC-401	104	9604	C X M
ADP00005	W01146	2932	7/8	3/4	25	0.14	WC-401	104	9604	C X M
ADP00925	W01162	1916	1 1/8	1 1/4	10	0.4	WC-401	104	9604	C X M
ADP00002	W01163	1964	1 1/8	1	10	0.24	WC-401	104	9604	C X M
ADP00927	W01164	5964	1 1/8	3/4	10	0.18	WC-401	104	9604	C X M
ADP00908	W01187	11964	2 1/8	2	5	0.87	WC-401	104	9604	C X M
ADP01014	W01196	12532	2 5/8	2 1/2	1	1.22	WC-401	104	9604	C X M
ADP00922	W01206	2132	1/4	1/4	100	0.04	WC-402	104	9603	C X F
ADP00930	W01214	2132	3/8	3/8	50	0.06	WC-402	104	9603	C X F
ADP00303	W01224	1	1/2	1/2	50	0.1	WC-402	104	9603	C X F
ADP00905	W01225	5364	1/2	3/8	50	0.06	WC-402	104	9603	C X F
ADP01010	W01230	1364	5/8	3/4	25	0.15	WC-402	104	9603	C X F
ADP00937	W01231	2732	5/8	1/2	50	0.1	WC-402	104	9603	C X F
ADP00923	W01233	12	5/8	1/4	50	0.05	WC-402	104	9603	C X F
ADP01012	W01238	5764	3/4	3/4	50	0.14	WC-402	104	9603	C X F
ADP00430	W01245	1532	7/8	1	25	0.24	WC-402	104	9603	C X F
ADP00322	W01246	2732	7/8	3/4	25	0.14	WC-402	104	9603	C X F
ADP00931	W01261	1732	1 1/8	1 1/4	10	0.28	WC-402	104	9603	C X F
ADP00426	W01263	3132	1 1/8	1	25	0.24	WC-402	104	9603	C X F
ADP00936	W01280	2932	1 5/8	1 1/4	5	0.42	WC-402	104	9603	C X F
ADP00428	W01287	1516	2 1/8	2	1	0.74	WC-402	104	9603	C X F
ADP00906	W01296	1516	2 5/8	2 1/2	1	1.19	WC-402	104	9603	C X F

### Bushing—Flush



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DIMENSION A	SIZE		BOX QTY	APPROX NET WT	MUELLER STYLE	ELKHART STYLE	NIBCO STYLE	CONNECTION
			1	2						
FTG00159	W01706	38	3/8	1/4	100	0.01	WC-106	119	9618	FTG X C
BUS00978	W01712	38	3/8	1/4	100	0.01	WC-106	119	9618	FTG X C
BUS00051	W01715	716	1/2	3/8	100	0.01	WC-106	119	9618	FTG X C
BUS00979	W01717	916	5/8	1/2	100	0.02	WC-106	119	9618	FTG X C
BUS00980	W01720	916	5/8	3/8	100	0.04	WC-106	119	9618	FTG X C
BUS00981	W01725	1116	3/4	5/8	50	0.03	WC-106	119	9618	FTG X C
BUS00448	W01726	1316	7/8	3/4	50	0.04	WC-106	119	9618	FTG X C
BUS01378	W01727	1316	7/8	5/8	50	0.08	WC-106	119	9618	FTG X C
BUS00982	W01737	3132	1 1/8	7/8	50	0.13	WC-106	119	9618	FTG X C
BUS01379	W01738	3132	1 1/8	7/8	50	0.13	WC-106	119	9618	FTG X C
BUS00983	W01739	3132	1 1/8	5/8	25	0.22	WC-106	119	9618	FTG X C
BUS00984	W01743	3132	1 1/8	5/8	25	0.22	WC-106	119	9618	FTG X C
BUS01354	W01745	1132	1 3/8	1 1/8	10	0.16	WC-106	119	9618	FTG X C
BUS00985	W01750	1532	1 5/8	1 3/8	10	0.22	WC-106	119	9618	FTG X C
BUS00986	W01758	11332	2 1/8	1 5/8	10	0.68	WC-106	119	9618	FTG X C

Copper Fittings by Mueller

CAP



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DIMENSION A	SIZE 1	BOX QTY	APPROX NET WT	MUELLER STYLE	ELKHART STYLE	NIBCO STYLE	CONNECTION
CAP00896	W07002	132	1/4	50		WC-415	117	9617	C
CAP00131	W07004	132	3/8	50	0.01	WC-415	117	9617	C
CAP00861	W07006	132	1/2	50	0.01	WC-415	117	9617	C
CAP00285	W07007	132	5/8	100	0.02	WC-415	117	9617	C
CAP00862	W07008	364	3/4	50	0.03	WC-415	117	9617	C
CAP00863	W07009	364	7/8	50	0.04	WC-415	117	9617	C
CAP00010	W07011	364	1 1/8	50	0.08	WC-415	117	9617	C
CAP00441	W07012	364	1 3/8	25	0.11	WC-415	117	9617	C
CAP00877	W07013	116	1 5/8	25	0.18	WC-415	117	9617	C
CAP00516	W07014	116	2 1/8	1	0.3	WC-415	117	9617	C
CAP00416	W07015	564	2 5/8	1	0.48	WC-415	117	9617	C

Coupling—No Stop

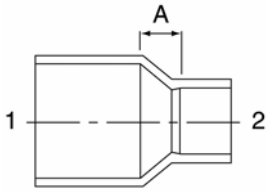


SERVICEFIRST ITEM NO	VENDOR ITEM NO	SIZE 1	BOX QTY	APPROX NET WT	MUELLER STYLE	ELKHART STYLE	NIBCO STYLE	CONNECTION
CPL00133	W01900	1/4	100	0.01	WC-400NS	101	9601	C X C
CPL00897	W01901	3/8	50	0.01	WC-400NS	101	9601	C X C
CPL00898	W01902	1/2	50	0.02	WC-400NS	101	9601	C X C
CPL00812	W01903	5/8	100	0.03	WC-400NS	101	9601	C X C
CPL00899	W01904	3/4	25	0.04	WC-400NS	101	9601	C X C
CPL00008	W01905	7/8	50	0.06	WC-400NS	101	9601	C X C
CPL00473	W01906	1 1/8	25	0.11	WC-400NS	101	9601	C X C
CPL00900	W01907	1 3/8	25	0.15	WC-400NS	101	9601	C X C
CPL00471	W01908	1 5/8	10	0.21	WC-400NS	101	9601	C X C
CPL00901	W01909	2 1/8	1	0.38	WC-400NS	101	9601	C X C
CPL00229	W01910	2 5/8	1	0.68	WC-400NS	101	9601	C X C
CPL00914	W01911	3 1/8	1	1.06	WC-400NS	101	9601	C X C

# HVAC Supplies and Accessories

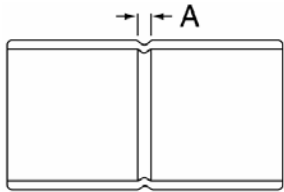
## Copper Fittings by Mueller

### Coupling—Reducing



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DIMENSION A	SIZE		BOX QTY	APPROX NET WT	MUELLER STYLE	ELKHART STYLE	NIBCO STYLE	CONNECTION
			1	2						
CPL00876	W01004	5/32	1/4	3/16	50	0.01	WC-400R	101R	9600	C X C
CPL00981	W01005	3/16	1/4	1/8	50		WC-400R	101R	9600	C X C
CPL00878	W01010	3/32	3/8	5/16	50	0.01	WC-400R	101R	9600	C X C
FTG00170	W01011	3/16	3/8	1/4	50	0.01	WC-400R	101R	9600	C X C
CPL00355	W01019	7/32	1/2	3/8	50	0.02	WC-400R	101R	9600	C X C
CPL00902	W01021	3/8	1/2	1/4	50	0.02	WC-400R	101R	9600	C X C
CPL00376	W01023	1/8	5/8	1/2	350	0.03	WC-415	117	9617	C X C
CPL00478	W01025	19/64	5/8	3/8	100	0.03	WC-415	117	9617	C X C
CPL00883	W01029	1/4	3/4	5/8	100	0.05	WC-415	117	9617	C X C
CPL00461	W01030	3/16	3/4	1/2	100	0.03	WC-415	117	9617	C X C
CPL00905	W01031	5/16	3/4	3/8	100	0.04	WC-415	117	9617	C X C
CPL00354	W01035	13/64	7/8	3/4	100	0.06	WC-415	117	9617	C X C
CPL00307	W01036	19/64	7/8	5/8	50	0.08	WC-415	117	9617	C X C
CPL00230	W01037	13/32	7/8	1/2	50	0.06	WC-415	117	9617	C X C
CPL00962	W01038	3/8	7/8	3/8	50	0.06	WC-415	117	9617	C X C
BUS00225	W01049	11/32	1 1/8	7/8	25	0.13	WC-415	117	9617	C X C
CPL00350	W01050	23/64	1 1/8	3/4	25	0.1	WC-415	117	9617	C X C
CPL00313	W01051	13/32	1 1/8	5/8	25	0.11	WC-415	117	9617	C X C
CPL00903	W01052	15/32	1 1/8	1/2	25	0.1	WC-415	117	9617	C X C
CPL00308	W01056	9/32	1 3/8	11/8	10	0.18	WC-415	117	9617	C X C
CPL00906	W01058	13/32	1 3/8	7/8	10	0.17	WC-415	117	9617	C X C
CPL00907	W01060	17/32	1 3/8	7/8	10	0.15	WC-415	117	9617	C X C
CPL00356	W01064	5/16	1 5/8	13/8	10	0.24	WC-415	117	9617	C X C
CPL00886	W01065	15/32	1 5/8	11/8	10	0.24	WC-415	117	9617	C X C
CPL00908	W01067	19/32	1 5/8	7/8	10	0.22	WC-415	117	9617	C X C
CPL00909	W01069	25/32	1 5/8	5/8	10	0.23	WC-415	117	9617	C X C
FTG00166	W01073	15/32	2 1/8	1 5/8	1	0.39	WC-415	117	9617	C X C
CPL00887	W01074	35/64	2 1/8	1 3/8	1	0.41	WC-415	117	9617	C X C
CPL00904	W01075	13/16	2 1/8	1 1/8	1	0.38	WC-415	117	9617	C X C
ADP00460	W01083	19/32	2 5/8	2 1/8	1	0.68	WC-415	117	9617	C X C
CPL00889	W01084	7/8	2 5/8	1 5/8	1	0.72	WC-415	117	9617	C X C
FTG00167	W01093	1/2	3 1/8	2 5/8	1	1	WC-415	117	9617	C X C
CPL00891	W01094	15/16	3 1/8	2 1/8	1	1.02	WC-415	117	9617	C X C

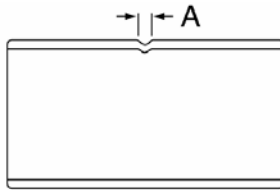
### Coupling—Rolled Stop



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DIMENSION A	SIZE 1	BOX QTY	APPROX NET WT	MUELLER STYLE	ELKHART STYLE	NIBCO STYLE	CONNECTION
CPL00874	W01001	1/16	3/16	100		WC-400	100	9600-RS	C X C
CPL00875	W01003	1/16	1/4	100	0.01	WC-400	100	9600-RS	C X C
CPL00877	W01009	1/16	3/8	50	0.01	WC-400	100	9600-RS	C X C
CPL00880	W01017	1/16	1/2	50	0.02	WC-400	100	9600-RS	C X C
CPL00881	W01022	1/16	5/8	100	0.03	WC-400	100	9600-RS	C X C
CPL00882	W01028	1/16	3/4	50	0.04	WC-400	100	9600-RS	C X C
CPL00923	W01034	1/16	7/8	50	0.06	WC-400	100	9600-RS	C X C
CPL00937	W01040	1/16	1	25	0.09	WC-400	100	9600-RS	C X C
CPL00892	W01047	1/16	1 1/8	25	0.11	WC-400	100	9600-RS	C X C
CPL00034	W01055	1/16	1 3/8	25	0.15	WC-400	100	9600-RS	C X C
CPL00884	W01062	1/16	1 1/2	25	0.22	WC-400	100	9600-RS	C X C
CPL00885	W01063	1/16	1 5/8	150	0.21	WC-400	100	9600-RS	C X C
CPL00009	W01072	1/16	2 1/8	10	0.38	WC-400	100	9600-RS	C X C
CPL00888	W01082	3/16	2 5/8	1	0.68	WC-400	100	9600-RS	C X C
CPL00890	W01092	3/16	3 1/8	1	1.03	WC-400	100	9600-RS	C X C
CPL01003	W010100	3/16	3 5/8	1	1.4	WC-400	100	9600-RS	C X C

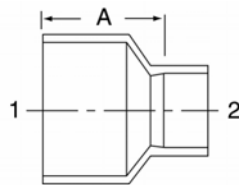
Copper Fittings by Mueller

Coupling—Staked Stop



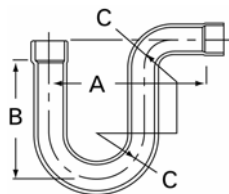
SERVICEFIRST ITEM NO	VENDOR ITEM NO	DIMENSION A	SIZE 1	BOX QTY	APPROX NET WT	MUELLER STYLE	ELKHART STYLE	NIBCO STYLE	CONNECTION
CPL00992	W10141	1/16	1/4	100	0.01	WC-400	100	9600-RS	C X C
CPL00879	W10142	1/16	5/16	100	0.01	WC-400	100	9600-RS	C X C
CPL00910	W10143	1/16	3/8	50	0.01	WC-400	100	9600-RS	C X C
CPL00993	W10144	1/16	1/2	50	0.02	WC-400	100	9600-RS	C X C
CPL00911	W10145	1/16	5/8	100	0.03	WC-400	100	9600-RS	C X C
CPL00994	W10157	1/16	3/4	25	0.04	WC-400	100	9600-RS	C X C
CPL00931	W10146	1/16	7/8	50	0.06	WC-400	100	9600-RS	C X C
CPL00033	W10147	1/16	1 1/8	25	0.11	WC-400	100	9600-RS	C X C
CPL00912	W10148	1/16	1 3/8	25	0.15	WC-400	100	9600-RS	C X C
CPL00913	W10149	1/16	1 5/8	10	0.21	WC-400	100	9600-RS	C X C
CPL00010	W10150	1/16	2 1/8	1	0.38	WC-400	100	9600-RS	C X C
CPL00343	W10151	3/16	2 5/8	1	0.68	WC-400	100	9600-RS	C X C
CPL01004	W10153	3/16	3 5/8	1	1.48	WC-400	100	9600-RS	C X C

Fitting Reducer



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DIMENSION A	SIZE		BOX QTY	APPROX NET WT	MUELLER STYLE	ELKHART STYLE	NIBCO STYLE	CONNECTION
			1	2						
FTG00894	W01302	17/32	1/4	1/8	50	0.01	WC-403	118	9600-2	FTG X C
FTG00841	W01306	3/8	3/8	1/4	50	0.02	WC-403	118	9600-2	FTG X C
BUS00066	W01312	5/8	1/2	3/8	50	0.02	WC-403	118	9600-2	FTG X C
FTG00842	W01314	19/32	1/2	1/4	50	0.01	WC-403	118	9600-2	FTG X C
FTG00003	W01315	3/4	5/8	1/2	50	0.03	WC-403	118	9600-2	FTG X C
FTG00843	W01317	25/32	5/8	3/8	50	0.03	WC-403	118	9600-2	FTG X C
FTG00844	W01320	7/8	3/4	5/8	100	0.03	WC-403	118	9600-2	FTG X C
CPL00369	W01321	29/32	3/4	1/2	100	0.04	WC-403	118	9600-2	FTG X C
FTG00845	W01322	7/8	3/4	3/8	100	0.03	WC-403	118	9600-2	FTG X C
BUS00484	W01325	31/32	7/8	3/4	50	0.08	WC-403	118	9600-2	FTG X C
FTG00846	W01326	61/64	7/8	5/8	50	0.06	WC-403	118	9600-2	FTG X C
FTG00847	W01327	1 1/8	7/8	1/2	50	0.05	WC-403	118	9600-2	FTG X C
BUS00352	W01337	1 7/64	1 1/8	7/8	25	0.11	WC-403	118	9600-2	FTG X C
FTG00857	W01338	1 1/4	1 1/8	3/4	25	0.09	WC-403	118	9600-2	FTG X C
FTG00858	W01339	1 11/32	1 1/8	5/8	25	0.1	WC-403	118	9600-2	FTG X C
FTG00859	W01340	1 3/8	1 1/8	1/2	20	0.08	WC-403	118	9600-2	FTG X C
CPL00027	W01343	1 7/32	1 3/8	1 1/8	10	0.17	WC-403	118	9600-2	FTG X C
BUS00002	W01345	1 11/32	1 3/8	7/8	10	0.15	WC-403	118	9600-2	FTG X C
FTG00862	W01347	1 1/2	1 3/8	5/8	10	0.14	WC-403	118	9600-2	FTG X C
BUS00004	W01350	1 13/32	1 5/8	13/8	10	0.21	WC-403	118	9600-2	FTG X C
BUS00015	W01351	1 17/32	1 5/8	1 1/8	10	0.22	WC-403	118	9600-2	FTG X C
FTG00860	W01353	1 11/16	1 5/8	7/8	10	0.21	WC-403	118	9600-2	FTG X C
FTG00863	W01355	1 3/4	1 5/8	5/8	10	0.21	WC-403	118	9600-2	FTG X C
BUS00014	W01358	1 27/32	2 1/8	1 5/8	1	0.39	WC-403	118	9600-2	FTG X C
FTG00848	W01359	2 1/32	2 1/8	1 3/8	1	0.38	WC-403	118	9600-2	FTG X C
FTG00861	W01360	2 1/8	2 1/8	1 1/8	1	0.4	WC-403	118	9600-2	FTG X C
FTG00849	W01367	2 1/32	2 5/8	2 1/8	1	0.63	WC-403	118	9600-2	FTG X C
FTG00850	W01368	2 7/32	2 5/8	1 5/8	1	0.58	WC-403	118	9600-2	FTG X C
BUS00011	W01376	2 1/32	3 1/8	2 5/8	1	0.93	WC-403	118	9600-2	FTG X C

P-Trap—Suction Line



SERVICEFIRST ITEM NO	VENDOR ITEM NO	SIZE 1	BOX QTY	APPROX NET WT	MUELLER STYLE	ELKHART STYLE	NIBCO STYLE	CONNECTION
TRP00025	W60999	5/8	10	0.39	WE-554P	N/A	9698	C X C
TRP00026	W61008	3/4	10	0.52	WE-554P	N/A	9698	C X C
TRP00027	W61000	7/8	5	0.6	WE-554P	N/A	9698	C X C
TRP00028	W61001	1 1/8	3	0.86	WE-554P	N/A	9698	C X C
TRP00029	W61002	1 3/8	4	1.19	WE-554P	N/A	9698	C X C
TRP00030	W61003	1 5/8	4	2.27	WE-554P	N/A	9698	C X C
TRP00023	W61009	2 1/8	1	3.8	WE-554P	N/A	9698	C X C

HVAC Supplies and Accessories

# HVAC Supplies and Accessories

## Copper Fittings by Mueller

### Refrigeration Components

#### Female Adapter



SERVICEFIRST ITEM NO	VENDOR ITEM NO	Fitting Size	Carton Quantity	Carton Weight
ADP01063	W-01271	1 1/4"	10	5

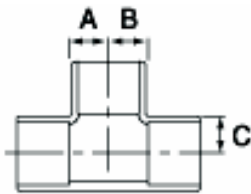
#### Male Adapter



SERVICEFIRST ITEM NO	VENDOR ITEM NO	Fitting Size	Carton Quantity	Carton Weight
ADP01067	W01179	1 1/2"	10	5

Copper Fittings by Mueller

Tee



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DIMENSION			SIZE			APPROX NET WT	MUELLER STYLE	ELKHART STYLE	NIBCO STYLE	CONNECTION
		A	B	C	1	2	3					
TEE00033	W04000	1364	1364	3/16	3/8			0.02	WT-600	111	9611	C X C X C
TEE00143	W04001	1764	1764	1/4	1/2			0.05	WT-600	111	9611	C X C X C
TEE00181	W04006	2164	2164	21/64	5/8			0.06	WT-600	111	9611	C X C X C
TEE00140	W04017	1332	1332	25/64	3/4			0.12	WT-600	111	9611	C X C X C
TEE00081	W04031	1532	1532	29/64	7/8			0.17	WT-600	111	9611	C X C X C
TEE00899	W04034				7/8	7/8	1/2		WT-600	111	9611	C X C X C
TEE00102	W04048	3764	3764	9/16	1 1/8			0.31	WT-600	111	9611	C X C X C
TEE00911	W04049	1532	1532	49/64	1 1/8	1 1/8	7/8	0.27	WT-600	111	9611	C X C X C
TEE00888	W04052	2364	2364	1 3/32	1 1/8	1 1/8	1/2	0.21	WT-600	111	9611	C X C X C
TEE00896	W04055	1932	1 3/64	5/8	1 1/8	7/8	1 1/8	0.24	WT-600	111	9611	C X C X C
TEE00886	W04056	1532	49/64	49/64	1 1/8	7/8	7/8	0.3	WT-600	111	9611	C X C X C
TEE00889	W04058	2364	41/64	21/32	1 1/8	7/8	5/8	0.22	WT-600	111	9611	C X C X C
TEE00910	W04062	1532	1 5/32	49/64	1 1/8	5/8	7/8	0.32	WT-600	111	9611	C X C X C
TEE00127	W04068	2332	2332	45/64	1 3/8			0.5	WT-600	111	9611	C X C X C
TEE00915	W04070	2964	2964	13/16	1 3/8	1 3/8	7/8	0.33	WT-600	111	9611	C X C X C
TEE00895	W04073	2332	1 7/32	49/64	1 3/8	1 1/8	1 3/8	0.54	WT-600	111	9611	C X C X C
TEE00900	W04074	1932	1 1/8	53/64	1 3/8	1 1/8	1 1/8	0.53	WT-600	111	9611	C X C X C
TEE00228	W04075	2964	59/64	13/16	1 3/8	1 1/8	7/8	0.38	WT-600	111	9611	C X C X C
TEE00152	W04078	2332	1 3/8	45/64	1 3/8	7/8	1 3/8	0.56	WT-600	111	9611	C X C X C
TEE00845	W04084	5364	5364	53/64	1 5/8			0.7	WT-600	111	9611	C X C X C
TEE00144	W04090	2732	1 3/16	53/64	1 5/8	1 3/8	1 5/8	0.78	WT-600	111	9611	C X C X C
TEE00885	W04091	4564	1 3/16	15/16	1 5/8	1 3/8	1 3/8	0.72	WT-600	111	9611	C X C X C
TEE00921	W04093	4564	1 21/64	1 5/8	1 5/8	1 3/8	7/8	0.6	WT-600	111	9611	C X C X C
TEE00909	W04095	5364	1 23/32	53/64	1 5/8	1 1/8	1 5/8	0.8	WT-600	111	9611	C X C X C
TEE00897	W04097	2332	1 29/64	1 19/32	1 5/8	1 1/8	1 1/8	0.68	WT-600	111	9611	C X C X C
TEE00206	W40102	1 3/32	1 3/32	1 3/32	2 1/8			1.6	WT-600	111	9611	C X C X C
TEE00917	W40103	2732	2732	1 13/64	2 1/8	2 1/8	1 5/8	1.19	WT-600	111	9611	C X C X C
TEE00891	W40109	1 3/32	1 63/64	1 3/32	2 1/8	1 5/8	2 1/8	1.6	WT-600	111	9611	C X C X C
TEE00894	W40110	2 7/32	1 23/32	1 7/32	2 1/8	1 5/8	1 5/8	1.19	WT-600	111	9611	C X C X C
TEE00890	W40111	2 7/32	1 23/32	1 27/32	2 1/8	1 5/8	1 3/8	1.34	WT-600	111	9611	C X C X C
TEE00901	W40117	2 7/32	1 27/32	1 27/32	2 1/8	1 3/8	1 3/8	1.28	WT-600	111	9611	C X C X C
TEE00919	W40122	2 1/16	2 1/16	1 3/32	1 3/8	1 3/8	2 1/8	1.68	WT-600	111	9611	C X C X C
TEE00916	W40125	1 3/32	1 3/32	2 5/16	2 5/8	2 5/8	1 5/8	1.87	WT-600	111	9611	C X C X C
TEE00893	W40130	1 5/16	2 7/16	1 3/8	2 5/8	2 1/8	2 5/8	2.24	WT-600	111	9611	C X C X C
TEE00912	W40132	1 5/64	2 11/64	2 7/16	2 5/8	2 1/8	1 5/8	2	WT-600	111	9611	C X C X C
TEE00918	W40137	1 5/16	2 49/64	1 3/8	2 5/8	1 5/8	5/8	2.28	WT-600	111	9611	C X C X C
TEE00892	W40139	1 3/32	2 27/64	2 7/16	2 5/8	1 5/8	1 5/8	2.04	WT-600	111	9611	C X C X C
TEE00920	W40144	1 11/32	1 11/32	1 3/32	2 1/8	2 1/8	2 5/8	2.41	WT-600	111	9611	C X C X C
TEE00914	W40156	1 5/64	2 5/32	2 11/16	3 1/8	2 5/8	1 5/8	2.61	WT-600	111	9611	C X C X C
TEE00906	W40158	1 19/32	2 13/16	2 27/32	3 1/8	2 5/8	2 5/8	3.3	WT-600	111	9611	C X C X C
TEE00923	W40159	1 19/32	2 3/4	1 5/8	3 1/8	2 5/8	3 1/8	5.2	WT-600	111	9611	C X C X C
TEE00907	W40167	1 19/32	3 1/16	1 41/64	3 1/8	2 1/8	3 1/8	4.1	WT-600	111	9611	C X C X C
TEE00904	W40220	1 5/16	2 7/8	1 3/8	2 5/8	1 3/8	2 5/8	2.35	WT-600	111	9611	C X C X C
TEE00898	W40232	2164	51/64	51/64	7/8	1/2	1/2	0.14	WT-600	111	9611	C X C X C
TEE00922	W40313	1364	1364	16-Mar	15/16			0.01	WT-600	111	9611	C X C X C
TEE00063	W40306	5/32	5/32	5/32	1/4			0.01	WT-600	111	9611	C X C X C

Disconnects by Cutler-Hammer



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
SWT02411	DPU222R	60A, non-fused disconnect switch, metallic
SWT02412	DPF222R	60A, fused disconnect switch, metallic
SWT02413	DPF221R	30A, fused disconnect switch, metallic
SWT02414	ACD222URNM	60A, non-fused disconnect switch, non-metallic
SWT02415	ACD222RNM	60A, fused disconnect switch, non-metallic
SWT02416	ACD221RNM	30A, fused disconnect switch, non-metallic

HVAC Supplies and Accessories

# HVAC Supplies and Accessories

## DiversiTech

### Abrasive Cloths

#### All Purpose Cleaning Pads



For cleaning copper tubes and fittings. Nylon will not rust. Can be used wet or dry. Leaves no residue and is long lasting.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
PAD00961	ACP-10	All Purpose Cleaning Pads	1 Box

#### Grip-Cut™

Open mesh sand screen cloth. Aluminum oxide grain resin bonded to synthetic nylon cloth. 100% waterproof, but can also be used dry for sanding by hand or with portable tools. Most effective where clogging is a problem, such as soft materials. 180 grit.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
TOL01783	SCM-5	Grip-Cut™ 1-1/2" x 5 yds.	12
TOL01784	SCM-10	Grip-Cut™ 1-1/2" x 10 yds.	24
TOL01785	SCM-25	Grip-Cut™ 1-1/2" x 25 yds.	12

Aluminum oxide, high quality 120 grit, abrasive cloth to thoroughly clean copper and steel tubing. Works wet or dry. Exceeds industry standards for abrasive cloth.



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
TOL01781	SC-10	Abrasive Cloth 1-1/2" x 10 yds.	24
TOL01782	SC-25	Abrasive Cloth 1-1/2" x 25 yds.	12



**DiversiTech  
Access Fittings**



A convenient low-cost port for refrigeration servicing. May be installed in any position on either high or low side for charging, purging, quick testing or pressure checking. DiversiTech's access fittings have 1/4" SAE male flare access ports and include a quick seal cap and a stainless and brass special refrigerant valve core.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
CAP00997	VC-4R	Flare Cap with Core Remover	12
COR00110	VVC-1	Valve Core	6
FTG01087	VA-3-346	3 Way Solder Type	6
FTG01109	VTR-24	Threaded Tee	3
FTG00927	VTS-12	Solder Tee Type	1
FTG01102	VS-4	Swivel Nut w/Depressor	6
FTG01086	VAU-45	Half Union	6
FTG01091	VA-46	Straight Solder Type	6
FTG01094	VAU-24	Half Union	6
FTG01101	VE-2	Threaded Elbow	3
FTG01096	VAX-3	Extended Copper Tube	6
FTG01098	VAX-5	Extended Copper Tube	3
FTG01099	VAX-6	Extended Copper Tube	3
FTG01088	VA-39	9 Way Solder Type	6
FTG01103	VST-4	Swivel Tee w/Permanent Depressor	3
FTG01105	VST-4X	Swivel Tee w/No Depressor	3
FTG01104	VST-44	Swivel Tee w/Permanent Depressor	3
FTG01106	VST-44X	Swivel Tee w/No Depressor	3
FTG00926	VTS-10	Solder Tee Type	1
FTG00928	VTS-14	Solder Tee Type	1
FTG00929	VTS-18	Solder Tee Type	1
FTG01110	VTS-46	Solder Tee Type	3
FTG01111	VTS-56	Solder Tee Type	3
FTG01112	VTS-68	Solder Tee Type	3
FTG01113	VTS-810	Solder Tee Type	3
FTG00934	VTS3-10	Solder Tube Elbow	1
FTG00935	VTS3-12	Solder Tube Elbow	1
FTG00936	VTS3-14	Solder Tube Elbow	1
FTG00937	VTS3-18	Solder Tube Elbow	1
FTG01107	VT-4	Forged Brass Tee	3
FTG01108	VT-24	Threaded Tee	3
FTG01097	VAX-4	Extended Copper Tube	6
FTG01095	VAX-2	Extended Copper Tube	6

**Pro-Tite™ Resin Based Thread Sealant**



Resin based thread sealant that adheres to internal surfaces, fills voids while forming a flexible fluid tight seal. Specifically formulated for use on metals and plastics subject to extreme vibration. Serviceable at temperatures from 100° F to 400° F and from full vacuum to 10,000 PSI. Pro-Tite is impervious to most chemicals including refrigerants, petroleum products, gases, steam, etc. Alcohol based.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
SEL00881	CLL-1	Pro-Tite, 1-1/3 oz. squeeze tube	12
SEL00882	CLL-4	Pro-Tite, 4 oz. brush top	12
SEL00883	CLL-16	Pro-Tite, 16 oz. brush top	12

**Acid Test and Prevention**

**Oil Tap**



Oil Tap is installed on a semi-hermetic compressor for the changing of oil and testing procedures. The internal pressure helps discharge the oil from the crankcase and acid tests can be made while the compressor is running. Allows the addition by vacuum or removal by pressure of oil while compressor is running. And, you can detect hazardous refrigerant pooling in the crankcase before start-up and control the removal using a compound gauge. Oil Tap can be permanently installed.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
FTG00942	OT-1808	Oil Tap	1

HVAC Supplies and Accessories

# HVAC Supplies and Accessories

## DiversiTech

### Acid Test and Prevention

#### Refrigeration Oil Acid Test Kits



Fast and easy one step kits designed to indicate the presence of destructive acid contamination in mineral, alkylbenzene and POE refrigeration oils. Now available in three versions. The original ATK-4 test kit is effective on mineral and alkylbenzene oils and provides an economical 4 tests per kit. The ATK-1 is a single test version of the original ATK-4 kit. The ATK-1P is a newly designed single test kit for POE refrigeration oil.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
KIT08028	ATK-4	4 Tests/Kit for Mineral and Alkylbenzene Oil	1

## Aerosols

### Coil Cleaning Foam Blast



A heavy duty foam detergent coil cleaner in the convenience of an aerosol can. Nonflammable and water based, it contains no chlorinated solvents. Blasting foam stream reaches into tight areas for maximum cleaning. The foaming alkaline detergent blend quickly liquefies dirt, grease, oil or other residue. The clinging foam is completely self rinsing on condensate producing coils.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
CHM00299	358-20	19 oz. Foaming Coil Cleaner	12

### Coil Cleaning Solvent



This high solvency formula quickly and easily liquefies dirt, grease, oil or other residue while the blasting nozzle powerfully separates the materials from the surface. This nonflammable and nonconductive formula is safe to use on or near live equipment.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
SOV00051	357-20	18 oz. Coil Cleaning Solvent	12

### Heavy Duty Adhesive Spray



This wide web spray adhesive is ideal for both temporary or permanent bonding. Waterproof, transparent and non-staining. Use for the toughest adhesive applications with leather, cardboard, most plastics, polyethylene sheeting and insulation in HVAC applications. Cleans with mineral spirits. Not for use on vinyl.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
CHM00211	315-20	12 oz. Adhesive Spray	12

### Wasp & Hornet Killer



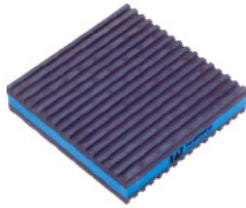
Kills wasps, hornets and yellow jackets. Very fast acting when insects are hit directly. Allow approximately 24 hours for those that were not directly hit. This container delivers a 20 foot jet blast to knock down the insects and allow for the user to remain at a safe distance.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
CHM00218	436-20	Wasp & Hornet Spray	12

DiversiTech

Anti-Vibration Pads

E.V.A. Anti-Vibration Pad



The latest generation in vibration dampening technology - the new EVA pad. The most effective vibration dampening pad available on the market today. We tested the EVA Pad against other pads at four different vibration settings. In the most severe vibration extremes, the new EVA Pad outperforms cork and rubber by a margin of greater than 3:1, and outperforms our competitor's "waffle" pad by a margin of greater than 8:1! This enhanced performance is due to the special composite foam center. The composite foam is much more structurally sound than cork. It is not affected by oils or chemicals that can sometimes break down cork, and is much more effective at vibration dampening than solid rubber. In essence, the EVA Pad gives you the best of both worlds, at a very competitive price.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
PAD00939	MP-2E	2" x 2" x 7/8" E.V.A. Pad	48
PAD00940	MP-3E	3" x 3" x 7/8" E.V.A. Pad	36
PAD00941	MP-4E	4" x 4" x 7/8" E.V.A. Pad	24
PAD00943	MP-12E	12" x 12" x 7/8" E.V.A. Pad	12
PAD00944	MP-18E	18" x 18" x 7/8" E.V.A. Pad	6

Iso-Cube Anti-Vibration Pad



Natural rubber pads, designed to reduce vibration and noise emanating from refrigeration and air conditioning equipment. The circular design in each pad offers a suction cup effect, which eliminates the need to bolt the pads down. A standard 18" pad is divided into eighty-one 2" segments, each of which may be cut or torn to provide smaller pads. These 50 durometer pads will withstand a load of 180 psi with greater resiliency.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
PAD00956	ISO-2	2" x 2" x 3/4" Iso-Cube	24
PAD00957	ISO-4	4" x 4" x 3/4" Iso-Cube	12
PAD00958	ISO-18	18" x 18" x 3/4" Iso-Cube	6

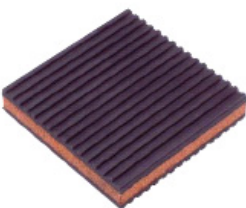
Rubber Anti-Vibration Pad



Highest quality elastomeric oil resistant padding. Designed to withstand 50 lbs. per square inch. The rubber pads are corrugated on both sides. Ideal for air conditioners, compressors, cooling towers, presses, machines, etc.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
PAD00936	MP-2	2" x 2" x 3/8" Rubber	48
PAD00938	MP-3	3" x 3" x 3/8" Rubber	36
PAD00946	MP-4	4" x 4" x 3/8" Rubber	24
PAD00954	MP-18	18" x 18" x 3/8" Rubber	6

Rubber/Cork Anti-Vibration Pad



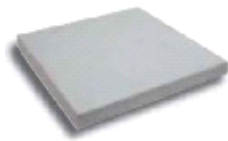
Highest quality elastomeric oil resistant padding. Designed to withstand 50 lbs. per square inch. The rubber pads are corrugated on both sides. The cork is laminated between two corrugated pads. Ideal for air conditioners, compressors, cooling towers, presses, machines, etc.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
PAD00937	MP-2C	2" x 2" x 7/8" Rubber/Cork	48
PAD00945	MP-3C	3" x 3" x 7/8" Rubber/Cork	36
PAD00947	MP-4C	4" x 4" x 7/8" Rubber/Cork	24
PAD00949	MP-6C	6" x 6" x 7/8" Rubber/Cork	24
PAD00955	MP-18C	18" x 18" x 7/8" Rubber/Cork	6

# HVAC Supplies and Accessories

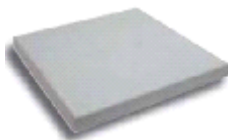
## Diversitech Equipment Pads

### CLADLITE® Lightweight Equipment Pads, 2"



SERVICEFIRST ITEM NO	VENDOR ITEM NO	Size	Pad Weight	Pallet Qty	Pallet Weight
PAD00916	2424-2	24 X 24	36	25	913
PAD00917	2430-2	24 X 30	37	25	950
PAD00918	2436-2	24 X 36	50	25	1275
PAD00919	2442-2	24 X 42	57	25	1450
PAD00920	2448-2	24 X 48	72	25	1825
PAD00921	2454-2	24 X 54	84	25	2125
PAD00922	2626-2	26 x 26	38	25	975
PAD00923	2636-2	26 X 36	54	25	1375
PAD00924	2838-2	28 X 38	55	25	1400
PAD00925	3030-2	30 X 30	48	25	1225
PAD00926	3036-2	30 X 36	60	25	1525
PAD00927	3040-2	30 X 40	70	25	1775
PAD00928	3143-2	31 X 43	83	25	2100
PAD00929	3232-2	32 X 32	54	25	1375
PAD00930	3237-2	32 X 37	66	25	1675
PAD00931	3434-2	34 X 34	63	25	1600
PAD00932	3636-2	36 X 36	76	25	1925
PAD00933	3640-2	36 X 40	81	25	2050
PAD00934	3648-2	36 X 48	115	25	2900
PAD00935	4147-2	41 X 47	115	25	2900

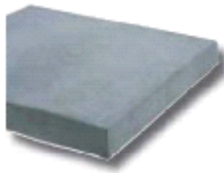
### CLADLITE® Lightweight Equipment Pads, 3"



SERVICEFIRST ITEM NO	VENDOR ITEM NO	Size	Pad Weight	Pallet Qty	Pallet Weight
PAD00982	2424-3	24 X 24	49	20	995
PAD01051	2436-3	24 X 36	63	20	1285
PAD00983	3030-3	30 X 30	62	20	1265
PAD01074	3036-3	30 X 36	71	20	1445
PAD01053	3040-3	30 X 40	94	20	1905
PAD01046	3232-3	32 X 32	68	20	1385
PAD00984	3237-3	32 X 37	87	20	1765
PAD00972	3636-3	36 X 36	100	20	2025
PAD01077	3640-3	36 X 40	120	20	2425
PAD00985	3648-3	36 X 48	132	20	2665
PAD01067	3660-3	36 X 60	163	15	2470
PAD01080	3865-3	38 X 65	179	15	2710
PAD01076	3870-3	38 X 70	179	10	1815
PAD00974	4147-3	41 X 47	140	15	2125
PAD01081	4558-3	45 X 58	177	15	2680
PAD00965	4766-3	47 X 66	219	10	2215
PAD01087	4848-3	48 X 48	150	15	2275
PAD01075	5070-3	50 X 70	257	15	2595

**Diversitech Equipment Pads**

**CLADLITE® Hurricane Pads, 4"**



Designed for the hurricane prone regions of Florida and the Gulf Coast

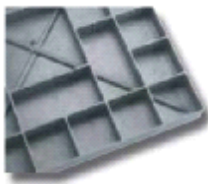
SERVICEFIRST ITEM NO	VENDOR ITEM NO	Size	Pad Weight	Pallet Qty	Pallet Weight
PAD01024	H2424-4	24 X 24	50	16	825
PAD01025	H2436-4	24 X 36	69	16	1130
PAD01026	H3030-4	30 X 30	70	16	1120
PAD01027	H3232-4	32 X 32	87	16	1392
PAD01028	H3345-4	33 X 45	123	16	1985
PAD01029	H3636-4	36 X 36	105	16	1705
PAD01084	H3642-4	36 X 42	117	16	1885
PAD01030	H3648-4	36 X 48	133	16	2168
PAD01073	H4040-4	40 X 40	140	8	2240
PAD01079	H4147-4	41 X 47	na	na	na

**CLADLITE® Hurricane T Pads, 4"**

Designed to meet the higher wind loads of taller equipment

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Size	Pad Weight	Pallet Qty	Pallet Weight
PAD01031	HT2424-4	24 X 24	88	10	925
PAD01032	HT2436-4	24 X 36	122	10	1270
PAD01033	HT3030-4	30 X 30	127	10	1320
PAD01034	HT3232-4	32 X 32	165	10	1700
PAD01035	HT3345-4	33 X 45	215	10	2200
PAD01036	HT3636-4	36 X 36	180	10	1850
PAD01037	HT3648-4	36 X 48	252	10	2570

**E-LITE® Plastic Equipment Pads, 2"**



SERVICEFIRST ITEM NO	VENDOR ITEM NO	Size	Pad Weight	Pallet Qty	Pallet Weight
PAD00891	EL24242	24 X 24	7	44	333
PAD00892	EL24302	24 X 30	9	22	219
PAD00893	EL24362	24 X 36	11	22	256
PAD00894	EL26262	26 X 26	8	22	205
PAD00895	EL30302	30 X 30	11	22	265
PAD00896	EL30362	30 X 36	13	22	313
PAD00897	EL30402	30 X 40	15	22	346
PAD00898	EL32322	32 X 32	13	22	300
PAD00899	EL32382	32 X 38	15	22	351
PAD00900	EL32442	32 X 44	17	22	401
PAD01082	EL3434-2	34 X 34	14	22	350
PAD00901	EL36362	36 X 36	16	22	373
PAD00902	EL36402	36 X 40	18	22	410
PAD00903	EL36482	36 X 48	29	22	663
PAD01085	EL3842-2	38 X 42	19	22	470

# HVAC Supplies and Accessories

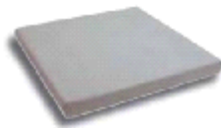
## Diversitech Equipment Pads

### E-LITE® Plastic Equipment Pads, 3"



SERVICEFIRST ITEM NO	VENDOR ITEM NO	Size	Pad Weight	Pallet Qty	Pallet Weight
PAD00904	EL24243	24 X 24	13	16	225
PAD00905	EL24303	24 X 30	16	16	277
PAD00906	EL24363	24 X 36	19	16	321
PAD00907	EL30303	30 X 30	20	16	345
PAD00909	EL30403	30 X 40	26	16	448
PAD00910	EL32323	32 X 32	21	16	353
PAD00911	EL32383	32 X 38	26	16	448
PAD00912	EL32443	32 X 44	30	16	499
PAD00913	EL36363	36 X 36	28	16	471
PAD00914	EL36403	36 X 40	31	16	521
PAD00915	EL36483	36 X 48	36	16	601
PAD01056	EL38703	38 X 70	36	16	604
PAD01048	EL4558-3	45 X 58	33	16	545
PAD01054	EL4848-3	48 X 48	29	16	481
PAD01065	EL4872-3	48 X 72	72	16	1177
PAD01066	EL5252-3	52 X 52	48	16	793
PAD01055	EL5658-3	56 X 58	43	16	715

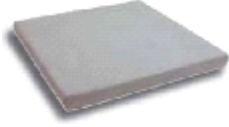
### ULTRALITE™ Lightweight Equipment Pads, 2"



SERVICEFIRST ITEM NO	VENDOR ITEM NO	Size	Pad Weight	Pallet Qty	Pallet Weight
PAD00836	UC1636-2	16 X 36	11	20	250
PAD00837	UC2424-2	24 X 24	15	20	323
PAD00838	UC2430-2	24 X 30	17	20	361
PAD00839	UC2436-2	24 X 36	22	20	455
PAD01061	UC2448-2	24 X 48	18	20	385
PAD00840	UC2626-2	26 X 26	17	20	365
PAD01062	UC2628-2	26 X 28	19	20	397
PAD00841	UC2636-2	26 X 36	21	20	446
PAD00842	UC3030-2	30 X 30	21	20	441
PAD00843	UC3036-2	30 X 36	27	20	571
PAD00844	UC3040-2	30 X 40	30	20	617
PAD00845	UC3143-2	31 X 43	26	20	551
PAD00846	UC3232-2	32 X 32	24	20	501
PAD00847	UC3234-2	32 X 34	23	20	485
PAD00848	UC3237-2	32 X 37	28	20	579
PAD00849	UC3434-2	34 X 34	23	20	493
PAD00850	UC3636-2	36 X 36	27	20	555
PAD00851	UC3640-2	36 X 40	29	20	608
PAD00852	UC3648-2	36 X 48	35	20	725
PAD01063	UC3842-2	38 X 42	30	20	625
PAD00853	UC4147-2	41 X 47	39	20	805

**Diversitech Equipment Pads**

**ULTRALITE™ Lightweight Equipment Pads, 3"**



SERVICEFIRST ITEM NO	VENDOR ITEM NO	Size	Pad Weight	Pallet Qty	Pallet Weight
PAD00854	UC1636-3	16 X 36	18	15	297
PAD00855	UC2424-3	24 X 24	18	15	294
PAD00856	UC2430-3	24 X 30	21	15	339
PAD00857	UC2436-3	24 X 36	26	15	412
PAD00859	UC2448-3	24 X 48	28	15	443
PAD00860	UC2626-3	26 X 26	17	15	279
PAD00861	UC2660-3	26 X 60	55	15	850
PAD00862	UC2838-3	28 X 38	30	15	471
PAD00863	UC3030-3	30 X 30	23	15	370
PAD00864	UC3036-3	30 X 36	30	15	471
PAD00865	UC3040-3	30 X 40	33	15	517
PAD01057	UC3060-3	30 X 60	63	15	970
PAD00866	UC3232-3	32 X 32	26	15	411
PAD00867	UC3237-3	32 X 37	27	15	436
PAD00868	UC3353-3	33 X 53	68	15	1045
PAD00869	UC3434-3	34 X 34	27	15	427
PAD00870	UC3445-3	34 X 45	39	15	612
PAD00871	UC3636-3	36 X 36	34	15	528
PAD00872	UC3642-3	36 X 42	32	15	510
PAD00873	UC3648-3	36 X 48	37	15	579
PAD01058	UC3654-3	36 X 54	71	15	1096
PAD01059	UC3660-3	36 X 60	49	15	767
PAD00874	UC3678-3	36 X 78	99	15	1510
PAD01064	UC3842-3	38 X 42	35	15	550
PAD00875	UC3865-3	38 X 65	85	15	1300
PAD00876	UC3870-3	38 X 70	113	15	1720
PAD01083	UC4040-3	40 X 40	34	15	510
PAD00877	UC4042-3	40 X 42	36	15	565
PAD01060	UC4054-3	40 X 54	81	15	1240
PAD00878	UC4347-3	43 X 47	60	15	925
PAD00879	UC4550-3	45 X 50	81	15	1240
PAD00880	UC4558-3	45 X 58	93	15	1420
PAD00881	UC4848-3	48 X 48	85	15	1300
PAD00882	UC4854-3	48 X 54	91	15	1390
PAD00883	UC4866-3	48 X 66	108	15	1645
PAD00884	UC5053-3	50 X 53	92	15	1405
PAD00885	UC5056-3	50 X 56	97	15	1480
PAD00886	UC5075-3	50 X 75	130	15	1975
PAD00887	UC5079-3	50 X 79	145	15	2200
PAD00888	UC5252-3	52 X 52	94	15	1435
PAD00889	UC5557-3	55 X 57	109	15	1660
PAD00890	UC6067-3	60 X 67	134	15	2035

**DiversiTech**

**Furnace Mounting Blocks**



DiversiTech is pleased to introduce our new line of Furnace Mounting Blocks. Each block can support 40% more weight than competitive products - over 500 pounds! Easy peel and stick installation. Diversitech's Furnace Mounting Blocks also feature a full quarter-inch of EVA foam for vibration and noise elimination.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
MNT02239	FB-1	Furnace Mounting Block	72

# HVAC Supplies and Accessories

## DiversiTech



Made of pure white Teflon. Non-toxic. For use with chemicals, solvents, oxygen, and on food lines. Withstands up to 2000 psi of pressure.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
BAS01870	HPR-3	Riser – 3"	48
BAS01871	HPR-6	Riser – 6"	36
BAS01872	HPR-12	Riser – 12"	16
BAS01985	HPR-6-2P	Two Piece Riser – 6"	16
BAS01987	HPR-6-2PG	Two Piece Dark Gray Riser – 6"	16

## Wire Tie Mounts

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
MNT02202	WTM2C	Wire Tie Mounts – #8 Screw	100

## A/C Mounting Brackets



These heavy duty 1/8" thick steel AC brackets are perfect for hanging A/C condensers and heat pumps outside the home. Can be mounted at any height to allow for easy maintenance under units. No longer a need to wait for finished grade or landscaping prior to installation of AC unit. Pre-punched holes for easy installation. Powder coated gray finish.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
BRK03388	ACB-30	30" AC Bracket	1 Pair
BRK03389	ACB-36	36" AC Bracket	1 Pair
BRK03390	ACB-42	42" AC Bracket	1 Pair

## Black Iron and Steel Pipe Fittings

### Black Steel Welded Nipples



- ASTM A-120 (NOM-B-10)
- Sch 40
- 700 PSI test pressure
- Welded Steel

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
NIP00205	BPN-1	1/2" x CL Black Welded Nipple	10
NIP00206	BPN-2	1/2" x 1-1/2" Black Welded Nipple	10
NIP00202	BPN-3	1/2" x 2" Black Welded Nipple	10
NIP00207	BPN-4	1/2" x 2-1/2" Black Welded Nipple	10
NIP00203	BPN-5	1/2" x 3" Black Welded Nipple	10
NIP00208	BPN-6	1/2" x 3-1/2" Black Welded Nipple	10
NIP00204	BPN-7	1/2" x 4" Black Welded Nipple	10
NIP00210	BPN-9	1/2" x 5" Black Welded Nipple	10
NIP00200	BPN-11	1/2" x 6" Black Welded Nipple	10
NIP00213	BPN-13	1/2" x 8" Black Welded Nipple	10
NIP00214	BPN-15	1/2" x 10" Black Welded Nipple	10
NIP00201	BPN-17	1/2" x 12" Black Welded Nipple	10

### Malleable Black Iron Pipe Fittings



- Material: ASTM A 197 Cupola Malleable Iron, 150 lb.
- Dimensions: ANSI B 16.3 Malleable Iron Threaded Fittings  
ANSI B 16.14 Ferrous Pipe Plugs, Bushings etc.  
ANSI B 16.39 Malleable Iron Threaded Pipe Unions
- Threads: ANSI B 2.1 or BS 21
- Tensile Strength: 28.4 kg/mm.min

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
FTG01002	BPF-01	1/2" 90 Degree Elbow	50
ELL01007	BPF-06	1" 45 Degree Elbow	20
FTG01004	BPF-07	1/2" Coupling	40
FTG01005	BPF-10	3/4" x 1/2" Reducing Coupling	60
ELL01008	BPF-13	1/2" 90 Degree Street Elbow	60
FTG01007	BPF-16	1/2" Tee	40
FTG01008	BPF-25	1/2" Cap	50
FTG01010	BPF-31	1/2" Union	50



DiversiTech

Capillary Tubing and Driers

Capillary Tubing



Made in the U.S.A., this high quality tubing is precision drawn so that the internal diameter is held to a tolerance of ±0.02. It is thoroughly dehydrated with the ends sealed. Each piece is individually packaged.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
TUB10573	CAP-36-10	Tube, Capillary Tube, .036 Id, .087 Od, 10 Ft Long	1
TUB10575	CAP-42-10	Tube, Capillary Tube, .042 Id, .093 Od, 10 Ft Long	1
TUB10582	CAP-54-10	Tube, Capillary Tube, .054 Id, .106 Od, 10 Ft Long	1

Universal Spun Copper Driers



Manufactured with the latest generation Grace Davison MS-594 Molecular Sieves compatible with more than 20 different types of refrigerants, including R-134A. They can be used in all hermetic and open refrigeration systems using CFC, HCFC and HFC gases and mixes such as commercial and domestic refrigerators, freezers and air conditioners ranging from 1/8 to 2.0 HP. Hermetically sealed with extended ends.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
DHY01032	DX-4	Dehydrater, Extended End Filter Drier, Spun Copper Shell, 3/8" Connection, 1-1/2 Ton On R-22
DHY01033	DXA-5	Dehydrater, Extended End Filter Drier, Spun Copper Shell, 1/4" Connection, 1-1/2 Ton On R-22

Carbon Steel Curved Handle Scratch Brush



Used for general purpose cleaning.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
BRU00294	B-10	Carbon Steel Curved Handle Scratch Brush	1

Power Fitting Brushes



Hex shaft locks into all standard and quick lock type chucks for easy change over. Stainless steel wire.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
BRU00375	542-09748	3/4" ID (7/8" OD) Power Fitting Brush	12

Chip Brushes



100% pure bristle, wood handle. Poly sleeve over bristles. Inexpensive (use once and throw away). Excellent for applying duct adhesive.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
BRU00369	B-501	Chip Brush – 1"	36
BRU00370	B-502	Chip Brush – 1-1/2"	36
BRU00344	B-503	Chip Brush – 2"	24
BRU00371	B-504	Chip Brush – 2-1/2"	24
BRU00372	B-505	Chip Brush – 3"	12

# HVAC Supplies and Accessories

## DiversiTech

### Duct Cleaning Brush



Black fiber bristles twisted in wire. 2-1/8" dia. x 7" Brush x 48" overall length.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
BRU00365	542-76220	Duct Cleaning Brush	1

### Parts Cleaning Brush



Heavy duty black polypropylene bristles in strong plastic handle.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
BRU00367	542-25015	Parts Cleaning Brush	12

### Refrigerator Coil Brush



Clean refrigerator coils, fan blades and areas under and behind appliances. 27-1/2" in length with 11-3/4" brush length. Bristles are 3/4" on the end tapering to 1-1/2" toward the handle.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
BRU00366	B-27	Refrigerator Coil Brush	1

### Tin Handle Acid Brushes



Manufactured with electrolyte tin plate and filled with 100% pure stiff horsehair, tied with a steel staple. This combination gives lasting qualities when used with heat and acids or other cleaning agents.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
BRU00272	B-1	Acid Brush 3/8" Tin Handle 1/Gross	144
BRU00273	B-2	Acid Brush 1/2" Tin Handle 1/Gross	144

### Welder's Brush



Stainless steel bristles used for cleaning all metals. Great for cleaning aluminum prior to soldering.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
BRU00271	B-4	Welder's Brush	12

## Cements, Sealants, Adhesives

### Caulkers



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
TOL02064	7-100	Caulker – Super Ratchet Type	12
TOL02035	7-200	Caulk Gun – Standard Duty	12

**DiversiTech**

**Cements, Sealants, Adhesives**

**DiversiGum Sealing Compound**



Non-hardening. For plugging openings through foundations or around refrigeration tube entry.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
SLT00093	6-202-1	1 lb. Slug	24
SLT00095	AG-25	3/8" x 25' Caulking Cord	12

**Heavy Duty PVC Cement**



Heavy bodied clear cement recommended for use on PVC pipe and fittings up to 12" in diameter for Sch. 40 and Sch. 80 potable water pressure pipe, gas, conduit, drain waste and vent pipe. Exceeds ASTM D-2564.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
CHM00540	530-30863	Heavy Duty Cement – 8 oz.	24

**Pro-Air Duct Sealant – UL 181 AM-BM Listed**



Water-based fiber-reinforced duct sealant/mastic formulated for indoor/outdoor use. Meets U.L. Class 1 rating and local codes while featuring long term flexibility and strength. Use on all types of metal heating, ventilating and air conditioning duct systems as well as fiberglass duct board systems and flex duct systems. Recommended for use to 10" of water column pressure without the need for fiberglass mesh reinforcement.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
SLT00117	800-008	1/10 Gallon Tube	12
SLT00118	800-009	1 Gallon	4

**Purple Primer for PVC Pipe and Fittings (Black Label)**



Recommended for all PVC and CPVC installations - all sizes/schedules. Purple tinted primer formulated to remove surface dirt and grease as well as soften the pipe surface to allow for a fast, secure and permanent solvent weld. For use in areas where codes call for primer verification.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
CHM00475	530-30756	Purple Primer – 8 oz.	24
CHM00533	530-30757	Purple Primer – 16 oz.	24

**Rain-R-Shine Blue Cement**



Medium bodied blue colored cement for PVC pipe and fittings up to 6 inches in diameter. A very fast setting cement formulated for wet conditions and/or when quick pressurization and fast installation is needed. Exceeds ASTM D-2654.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK	PRICE/EACH
CHM00511	530-30890	4 oz. Rain-R-Shine cement	24	6.52
CHM00653	530.30893	16 oz. Rain-R-Shine cement	24	20.04

**Sp-Off Blade Utility Knife**



8 sharp points per blade. Retractable blade with 2-piece positive lock. Built in blade breaker with pocket clip. 1 blade included. Carded.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
TOL01605	535-42047	Snap off blade utility knife	10/box
BLD00985	535-42330	Replacement blades	5/card

# HVAC Supplies and Accessories

## DiversiTech

### Switchblade Self-Retracting Knife



For right or left hand operation. Die cast zinc alloy construction. Blade exposed only when thumb is pressed forward on button. Blade automatically retracts into handle when thumb is released. High visibility orange finish. 1 heavy duty rounded tip blade included. Carded.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
TOL01604	535-42065	Self retracting knife	10/box
BLD00984	535-42117	Replacement blades	5/card

### Top Slide Utility Knives



Die cast zinc alloy construction. Top slide push button blade adjustment. 1 heavy duty blade included. Carded.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
TOL01606	535-42070	Utility knife	5/box
TOL01607	535-42075	Utility knife – economy	5/box
BLD00986	535-42115	Replacement blades	5/card

## Chemicals, Lubricants

### PRO-BLUE™ Leak Detector



Easy to use, high bubbling, viscoelastic blue leak detector.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
CHM00534	800-002	1 Quart w/Spray Top	12

## Wagner Chemicals

### Leak Finder with Brush-On Applicator



Formulated for refrigeration and air conditioning systems. Seeks and finds refrigerant and air leaks quickly and safely. Actually pinpoints the leak when applied to the suspected area. Leak-Finder has body and will never fail to bubble at even the slightest leak. Leak-Finder is non-toxic, will not stain and meets Mil Spec. MIL-L-25567A for oxygen and compressed gases. Ideal for automotive air conditioners where flame type detectors could be hazardous. Leak-Finder also makes the perfect companion to electronic leak detectors.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
CHM00302	CL-8	8 fl. oz. Leak Finder	12

### Radiant Leak Finder



The radiant color of this viscous leak detector lets the user easily see even the slightest bubble. Withstands temperatures down to 0°F before freezing. Below zero, it forms a gel and becomes liquid again in only a few minutes of room temperature. Now available in a pull-a-spout bottle.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
CHM00515	CLR-8	8 fl. oz. Radiant Leak Finder	12

### Epoxy-A-Leak All Purpose Epoxy Kit



Formulated to repair leaks on aluminum evaporators and condensers. Ideal for joining all metal to metal parts. Sets fast, cures fast, just 7 to 10 minutes. Has shear strength in excess of 2000 PSI within 30 minutes. Bursting pressure 4000 PSI. Withstands temperatures from -40° to 212°F. Refrigeration systems can be recharged within one hour after repair. Packaged in economy-sized one ounce tubes. Kit includes two 1 oz. tubes (1 resin, 1 hardener), mixing spatulas, emery cloth, plus saturated cleaning swabs.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
CHM00304	CP-2	Epoxy-A-Leak All Purpose Epoxy Kit	12

DiversiTech

Coil Cleaners



Professional strength formula cleans, brightens, deodorizes and degreases air cooled condensers, evaporators, electronic filters, fan blades, etc.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
CHM00516	8-G	Pro-Kleen Green no rinse (non-toxic) – 1 Gallon	4
CHM00518	8-P	Pro-Foam Super foaming concentrate (non-acid) – 1 Gallon	4

TRIPLE “D”™ Premium Alkaline Coil Cleaner



- **Unique** - Triple action degreaser - detergent - deodorant. Nonfoaming condenser, evaporator and electronic air filter cleaner
- **Economical and Effective** - A concentrated minimum 6-1 mix ratio provides full cleaning power at low use cost.
- **Nontoxic and Biodegradable** - Reduces workers' compensation and liability because it contains no hazardous acids.  
USDA AUTHORIZED

SERVICEFIRST ITEM NO	VENDOR ITEM NO	PACKAGE	STANDARD PACK
CHM00625	SCM-707-01	1 Gallon Container	4/Case

Compressor Heaters



Extends the life of air conditioners and refrigeration compressors. Corrosion resistant exterior. High temperature silicone rubber element and insulated leads. Voltages through 600. Wattage for each model matches compressor requirements. Moisture proof, easy to install. Nominal power consumption. UL listed, CSA certified.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
HTR04257	CH-100	Heater; Diversitech Compressor, 240v, 50w, 37 Inch Max Girth	1
HTR04258	CH-100-3	Heater; Diversitech Compressor, 480v, 50w, 37 Inch Max Girth	1
HTR04259	CH-101	Heater; Diversitech Compressor, 240v, 54w, 34 1/4 Inch Max Girth	1
HTR04263	CH-102	Heater; Diversitech Compressor, 240v, 60w, 32 9/16 Inch Max Girth	1
HTR04273	CH-103	Heater; Diversitech Compressor, 240v, 45w, 31 9/16 Inch Max Girth	1
HTR04277	CH-105	Heater; Diversitech Compressor, 240v, 50w, 39 5/16 Inch Max Girth	1
HTR04790	CH-196	Heater; Compressor Heater For Copeland 6" Scroll, 40 Watts, 240 V	1
HTR04268	CH-196-3	Heater; Diversitech Compressor, 480v, 40w, 26 5/8 Inch Max Girth	1
HTR04280	CH-197	Heater; Diversitech Compressor, 240v, 25 W, 20 9/16 Inch Max Girth	1
HTR04270	CH-230	Heater; Diversitech Compressor, 240v, 70 W, 28 1/2 Inch Max Girth	1
HTR04271	CH-230-3	Heater; Diversitech Compressor, 480v, 70w, 28 1/2 Inch, Max Girth	1

Compressor Tote



Makes light work of a heavy job. Electro plated, strong steel construction. Recommended for use with all compressors up to 5 tons. Compatible with high efficiency compressors. Pick up a compressor from its box. Carry a compressor up a ladder. Now with black protective finish.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
TOL01886	ACT-6	Compressor Tote	6

# HVAC Supplies and Accessories

## DiversiTech

### Condensate Products

#### A/C Condensate Float Switch



Designed for use in condensate drain pan overflow. Easily installed on the side of the auxiliary drain pan. Single pole, double throw normally OPEN or normally CLOSED.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
SWT02410	6-JMP	Condensate Float Switch	1

#### A/C Secondary Condensate Drain Pans



- New rolled edges for durability
- New ribbed bottoms for rigidity
- New reinforced corners for strength
- 3/4" PVC fittings attached to each pan
- No seams-no rust-no leakage
- Available in over 20 convenient sizes
- Five pans per master carton
- Complies with Southern Building Code

SERVICEFIRST ITEM NO	VENDOR ITEM NO	NOPACK	DESCRIPTION
PAN02320	6-1838S	5	Pan; A/C Secondary Drain Pan, 18 in X 38 in
PAN02323	6-2424L	5	Pan; A/C Secondary Drain Pan, 24 in X 24 in
PAN02324	6-2626L	5	Pan; A/C Secondary Drain Pan, 26 in X 26 in
PAN02326	6-2748L	5	Pan; A/C Secondary Drain Pan, 27 in X 48 in
PAN02327	6-2748S	5	Pan; A/C Secondary Drain Pan, 27 in X 48 in
PAN02328	6-2763L	5	Pan; A/C Secondary Drain Pan, 27 in X 63 in
PAN02330	6-3030L	5	Pan; A/C Secondary Drain Pan, 30 in X 30 in
PAN02331	6-3050L	5	Pan;(5 Ea/Case) A/C Secondary Drain Pan, 30 in X 50 in
PAN02332	6-3050S	5	Pan; A/C Secondary Drain Pan, 30 in X 50 in
PAN02333	6-3060L	5	Pan; (5 Ea/Case) A/C Secondary Drain Pan, 30 in X 60 in
PAN02334	6-3060S	5	Pan; A/C Secondary Drain Pan, 30 in X 60 in
PAN02335	6-3263L	5	Pan; A/C Secondary Drain Pan, 32 in X 63 in
PAN02336	6-3263S	5	Pan; A/C Secondary Drain Pan, 32 in X 63 in
PAN02337	6-3636L	5	Pan; A/C Secondary Drain Pan, 36 in X 36 in
PAN02338	6-3660L	5	Pan; A/C Secondary Drain Pan, 36 in X 60 in
PAN02339	6-3660S	5	Pan; A/C Secondary Drain Pan, 36 in X 60 in

#### 2-in-1 Copper Tube Cleaning Brush



Easy to hold combination tool that really works. One end cleans the fitting. The other cleans the tube.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
BRU00297	B-996	1/2" ID (5/8" OD) 2-in-1 Brush	1
BRU00298	B-998	3/4" ID (7/8" OD) 2-in-1 Brush	1

#### Condenser and Heat Exchanger Brushes



Ideal for cleaning mineral deposits from inside metal tubes. Especially recommended for use with power tools, although handle for manual use is available.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
BRU00361	B-733	1" Nylon 12-24 Female	1
BRU00274	B-924	1/4" O.D., 9/32" Brush Dia.	1
BRU00275	B-925	3/8" O.D., 13/32" Brush Dia.	1
BRU00276	B-926	1/2" O.D., 17/32" Brush Dia.	1
BRU00277	B-927	5/8" O.D., 11/16" Brush Dia.	1

**DiversiTech**

**Condenser and Heat Exchanger Brushes for Commercial Tube Cleaning**



For all commercial power tube cleaning machines. 1/4" and 3/8" dia. brushes have 8-32 female threads. 7/16"-1" brushes have 1/4-28 male threads. Use 7/16"-1" brushes for both CW and CCW rotation using a 1/4-28 NF jam locknut.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
BRU00300	B-333	1" Nylon 1/4-28 Male	1

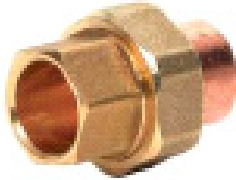
**Extension Rods for Condenser Tube Brushes**

Aluminum rods thread into each other to make an endless length.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
HDL00898	BH-1	Handgrip – 4" long threads into rods	1
ROD01140	BE-24	24" Rods with male thread one end, female other 12-24 Thread Size	3
ROD01141	BE-36	36" Rods with male thread one end, female other 12-24 Thread Size	3

**Copper Fittings**

**Unions C x Brass**



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK	OD SIZE	ID SIZE
UNN00826	C657-0100	Union; C X Brass, 7/8 Od/3/4 Id	100	7 / 8	3 / 4

**Copper Tube Fitting Brushes**



Highest quality brushes to clean fittings faster, easier and more safely. Made with strong, resilient, rustproof stainless steel bristles secured in a 4-ply wire with easy-to-grip plastic handle. Economy models feature same quality stainless steel, but secured in 2-ply wire.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
BRU00286	B-125	Economy 3/8" O.D., 13/32" Brush Dia.	6
BRU00287	B-126	Economy 1/2" O.D., 17/32" Brush Dia.	6
BRU00288	B-127	Economy 5/8" O.D., 11/16" Brush Dia.	6
BRU00289	B-128	Economy 3/4" O.D., 13/16" Brush Dia.	6
BRU00290	B-129	Economy 7/8" O.D., 15/16" Brush Dia.	6
BRU00278	B-928	3/4" O.D., 13/16" Brush Dia.	1
BRU00279	B-929	7/8" O.D., 15/16" Brush Dia.	1
BRU00280	B-930	1" O.D., 1-1/8" Brush Dia.	1
BRU00281	B-931	1-1/8" O.D., 1-1/4" Brush Dia.	1
BRU00282	B-932	1-3/8" O.D., 1-1/2" Brush Dia.	1
BRU00283	B-934	1-5/8" O.D., 1-3/4" Brush Dia.	1
BRU00284	B-935	2-1/8" O.D., 2-1/4" Brush Dia.	1

**Cork Insulation Tape**



Adheres firmly to all metals. Use on hot or cold pipes to stop condensation and drips.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
TAP00059	6-330	1/8" x 2" x 30' Roll (Black)	12

# HVAC Supplies and Accessories

## DiversiTech

### Cushion Clamps



Cushion clamps are an industry standard, universal clamp that mounts to standard strut. The clamps are steel with electro-dichromate finish to resist corrosion. The lock nut features a nylon insert to assure a positive lock. The polymeric grommet withstands temperatures from -25°C to 125°C and resists the effects of most oils, chemicals, and industrial cleaning compounds. Available in 14 sizes from 1/4" to 4-1/8".

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
CMP01053	538-3/8	Cushion Clamp (3/8)	25/Box
CMP01054	538-1/2	Cushion Clamp (1/2)	25/Box
CMP01055	538-5/8	Cushion Clamp (5/8)	25/Box
CMP01056	538-3/4	Cushion Clamp (3/4)	25/Box
CMP01057	538-7/8	Cushion Clamp (7/8)	25/Box
CMP01058	538-1-1/8	Cushion Clamp (1-1/8)	10/Box
CMP01059	538-1-3/8	Cushion Clamp (1-3/8)	10/Box
CMP01061	538-2-1/8	Cushion Clamp (2-1/8)	10/Box
CMP01062	538-2-5/8	Cushion Clamp (2-5/8)	10/Box

## Degreasers

### HDX Heavy Duty Degreaser



Quickly removes oil, grease, and dirt. Fast acting, non-flammable. Very fast evaporation. Does not contain CFCs. Does not require rinsing or wiping. Not flammable or conductive.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
CHM00239	LPS-7X	19 oz. HDX Heavy Duty Degreaser	12

### Precision Clean



Quickly removes oil, grease, and dirt. Biodegradable. Super industrial strength. USDA approved, non-toxic. Slow evaporation. Does not contain CFCs. Does not require rinsing or wiping. Non flammable. Conductive. Now available in a foaming aerosol!

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
CHM00242	LPS-728	28 oz. Precision Clean	12

### PreSolve



Quickly removes oil, grease, and dirt. Natural based solvent. Moderate evaporation. Does not contain CFCs. Does not require rinsing or wiping. Flashpoint 104°. Not conductive.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
CHM00240	LPS-7PS	15 oz. PreSolve	12

### ZeroTri



Quickly removes oil, grease, and dirt. Evaporates completely and very rapidly. Does not contain CFCs. Does not require rinsing or wiping. Flashpoint 0°F. Not conductive.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
CHM00241	LPS-7Z	15 oz. ZeroTri	12



**DiversiTech**

**Contact Cleaners**

**CFC-Free Electro Contact Cleaner**



A fast penetrating, quick evaporating, non-residue cleaner for precision parts. Ideal for electrical and electronic fine parts. Penetrates to remove light greases, oil, dirt and other contaminants. Contains no CFCs, HCFCs, or 1,1,1 trichloroethane. No rinsing or wiping necessary. Will not stain fabric. Good solvency, low odor, low toxicity. Non conductive, safe on metals and plastics.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
CHM00236	LPS-4CF	11 oz. CFC-Free Electro Contact Cleaner	12

**Electro 140° Contact Cleaner**



Ideal for electrical/electronic parts. Flash point above 140°F. No rinsing or residue. Contains no CFCs or 1,1,1. Superior wetting and penetrating action.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
CHM00235	LPS-4-140	11 oz. Electro 140° Contact Cleaner	12

**All Purpose Lubricant**



Compared to all the others, TKX by LPS is the best all-purpose lubricant. “Wicks” faster and penetrates quickly due to lower surface tension. Formulated to deliver greater clinging power and better protection. Safest to use on operating equipment. High 175°F flashpoint. Exclusive “invertvalve” permits spraying in all positions - even upside down.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
LUB00043	LPS-40	11 oz. All Purpose Lubricant	12

**All Purpose Sprayers**



All-purpose spray bottles. Gallon size bottle has a 28” flexible hose and easy-to-carry handle. Lightweight and versatile. Best for the really big jobs in hard-to-reach places. Adjustable nozzle will atomize any low viscosity liquid. Will adjust from a mist to a 12’ jet stream or anything in between. The one pint container is imprinted with a measured ounce guide. Ideal for spraying water treatment chemicals.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
TOL01890	BS-16	Pint Size Sprayer	12
TOL01891	BS-32	Quart Size Sprayer	12

**Greaseless Lubricant**



Thin film lubrication. Water displacer dries out wet electrical/electronic components. Contains no chlorinated solvents. Ideal for delicate mechanisms. Fast penetrating and no oily mess. Safe on rubber, paint, plastic, fabrics. Won’t attract dust or dirt.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
LUB00044	LPS-1	11 oz. Greaseless Lubricant	12
LUB00045	LPS-1G	Gallon Greaseless Lubricant	1

**Heavy Duty Silicone Lubricant**



Dry film lubricant. Water based and ideal for surfaces where petroleum based products are unsuitable. Contains no chlorinated solvents and is safe on metal, plastic, rubber, vinyl, leather and wood. Non-stain, anti-static, and approved by USDA for use in federally inspected meat and poultry plants. Approved for use in areas with incidental food contact.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
LUB00048	LPS-6	13 oz. Heavy Duty Silicone Lubricant	12

# HVAC Supplies and Accessories

## DiversiTech

### Industrial Strength Lubricant



Leaves light oily coating. Quick release for seized mechanisms. Reduces wear caused by friction corrosion. Contains no chlorinated solvents. Safe on rubber, paint, plastic, fabrics.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
LUB00046	LPS-2	11 oz. Industrial Strength Lubricant	12
LUB00047	LPS-2G	Gallon Industrial Strength Lubricant	1

### Lubricants

#### Cold Galvanize



95% zinc rich coating inhibits corrosion up to three years. Works as a primer or finish coat to repair damaged or worn hot-dipped galvanized coatings. Leaves a matte gray finish. Works on rusted surfaces and all metals. Won't crack, chalk, or peel.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
CHM00233	LPS-5	16 oz. Cold Galvanize	12

#### Heavy Duty Rust Inhibitor



Forms heavy waxy coating. Effective corrosion inhibition under severe conditions and corrosive environments indoors and outdoors up to two years. Safe on rubber, paint, plastics, fabric. Excellent anti-seize compound. Superior chain lubricant.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
INH00016	LPS-3	11 oz. Heavy Duty Rust Inhibitor	12
INH00017	LPS-3G	Gallon Heavy Duty Rust Inhibitor	1

#### LST Penetrant



Specially formulated with low surface tension for fast penetrating action. Displaces moisture. Powerful foaming action provides complete surface coverage. Flash point of 175°F.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
CHM00234	LPS-8	11 oz. LST Penetrant	12

#### Pull-A-Spout Oiler



All purpose oiler with a 14" telescoping spout. Zooms out for long shots, and in for short shots, even zooms around corners. Squeeze bottle action. Perfect lubricant for general industrial use. Contains four ounces of finest quality carbon free, rust and oxidation inhibited lubricating oil. Plastic container won't short out around electrical connections. No leakage.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
OIL00091	CO-1	Pull-A-Spout Oiler(4 oz.)	12 (Display)

#### Rust Breaker



Quickly loosens rusted bolts, screws, shafts, piping, and all types of "Frozen" connections and assemblies. The answer for rusty or corroded fastenings on cars, trucks, trailers, tractors, farm machinery, appliances, washing machines, plumbing, water pumps, fishing reels, power tools, gardening equipment, and hundreds of other mechanisms. Packaged in a handy telescoping spout applicator.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
CHM00232	CR-1	Rust Breaker (4 oz.)	12 (Display)

**DiversiTech**

**White Lithium w/Teflon**



Pure white lubricant with Teflon additives. Provides maximum lubrication. Rust and oxidation inhibitors protect metal. Heat and water resistant. Rapidly forms into a pure white grease that won't melt or wash away.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
LUB00049	LPS-9	10 oz. White Lithium Lubricant	12

**NoFlash NU Precision Contact Cleaner**



New patent-pending non-flammable formula. Fast evaporating, quick penetrating, no residue formula. Safe on most surfaces. Replaces HCFC 141b or other chlorinated solvents. No flash point.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
CHM00472	LPS-4NU	15 oz. No-Flash NU Contact Cleaner	12

**Thermaplex Multi-Purpose Grease**



Specifically developed to outperform conventional bearing greases and extend relubrication periods, reducing maintenance requirements and grease use. Blue colored paste with excellent load carrying properties. Temperature range -22°F to 350°F.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
LUB00050	LPS-13	14.1 oz. Thermaplex Bearing Grease	30

**Disconnect Switches**

**A/C Pull-out Disconnect Switches with Side Opening Door**



- Side hinged cover, Type 3R enclosure offers better access to interior components.
- Compact design for easy installation and low visual profile.
- Easy to install and wire - plenty of wire bending space and knockouts.
- Slot for hanging with mounting holes spaced for standard mortar joints.
- Molded interior trim - one piece design with captive screw.
- Swing down cover latch - prevents damage during shipment and installation.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
SWT02422	755-30F	30A Fusible Pullout Disconnect Switch	10
SWT02423	755-60F	60A Fusible Pullout Disconnect Switch	10
SWT02424	755-60NF	60A Non-Fusible Pullout Disconnect Switch	10

**DiversiTech Pull-out Disconnect Switches with Side Opening Door**



- Fused models designed with fuses in pull-out handle for easy replacement
- Line, load, and ground terminals aligned for ease of wiring
- Patent pending reversible door - opens to the left or to the right
- Side opening door opens more than 180 degrees for maximum access
- Fused models have indicator lights for blown fuses
- Full dead front

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
SWT02590	DDS-30	30A Fusible Disconnect Switch	10
SWT02591	DDS-60	60A Fusible Disconnect Switch	10
SWT02592	DDS-60U	60A Non-Fusible Disconnect Switch	10

# HVAC Supplies and Accessories

## DiversiTech

### Disconnect Switches

#### Non-Metallic Disconnects



NEMA3R rated non-metallic, pullout type disconnect switches, excellent for coastal environments. Single phase 240 Volts AC.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
SWT02460	750-P60NF	Non-Fusible 60 Amp	10

#### QO200TR Air Conditioning Disconnect



- 60 amp molded case switch rated for 10 HP motors at 240 VAC.
- On-Off circuit breaker type switch. No pull-out head that can be lost or stolen.
- Four, one-inch combination knockouts - two in back and two in bottom end wall.
- Removing the cover housing provides open access to lugs for easy wiring.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
SWT02425	QO200TR	60AMolded Case Disconnect Switch	1

#### Three Phase Disconnects



UL listed, File E5239. Meets UL98 for enclosed switches and NEMA Std. KS-1. Suitable as service entrance equipment when applied with neutral or ground lug kit. Rainproof type 3R enclosure.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
SWT02632	750-30F-3PH	Fusible 30 Amp	1
SWT02633	750-60F-3PH	Fusible 60 Amp	1
SWT02634	750-60NF-3PH	Non-Fusible 60 Amp	1

## DiversiTech Definite Purpose Contactors

#### Two pole, small frame.



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK	FL AMPS	COIL VAC
CTR02078	EC30224	Contactors; 30 Amp, 2 Pole, 24 Volt Coil	1	30	24
CTR02079	EC40224	Contactors; 40 Amp, 2 Pole, 24 Volt Coil	1	40	24
CTR02086	EC302120	Contactors; 30 Amp, 2 Pole, 120 Volt Coil	1	30	120

#### DiversiTech Three Pole DP Contactors

#### Three pole, large frame.



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK	FL AMPS	COIL VAC
CTR02080	EC30324	Contactors; 30 Amp, 2 Pole, 24 Volt Coil	1	30	24
CTR02081	EC40324	Contactors; 40 Amp, 3 Pole, 24 Volt Coile	1	40	24
CTR02092	EC403120	Contactors; 40 Amp, 3 Pole, 120 Volt Coil	1	40	120

DiversiTech

DiversiWhips, Conduit, Fittings, Cable

Aluminum Armored MC Cable



90°, C Rated aluminum metal clad cable system. THHN solid copper with specially compounded heat-resistant U.L. Listed insulation and jacket. Flexible interlocked aluminum armor. Extremely durable - withstands severe handling. U.L. Listed #4. Conforms to NEC article 333.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
CAB00988	640-122	12-2 Aluminum Armored MC Cable – 100 ft. Roll	1
CAB00989	640-142	14-2 Aluminum Armored MC Cable – 100 ft. Roll	1

Barrels of DiversiWhips



DiversiWhips are now available in a convenient, bulk-packaged barrel at a discounted price. Barrel makes an attractive floor-standing display. 1 straight and 1 90° metallic or non-metallic connector.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
KIT07859	B6-12-6NM	1/2 x 6' #10 THHN Wire – Non-Metallic Connectors	60
KIT07863	B6-34-6NM	3/4 x 6' #8 THHN Wire – Non-Metallic Connectors	45

Cable Staples



Cable Staples for NMB Cable (Romex) and Copper Insulated Staples for thermostat wire.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
SRP00865	625-183	Romex Staples – 1/2"	100
TOL02024	625-IS5	Copper Insulated #5 Staples for T-Stat Wire	100

DiversiWhips



Liquid-tight flexible conduit system. A labor saving convenience kit for A/C unit hookup. Also use for heat pumps, refrigeration, hot tubs, swimming pools and outdoor lighting. Three distinct wire colors for ease of hookup. 1 straight and 1 90° metallic or non-metallic connector. 90° connector is removable for straight connections. (Second straight connector not included.) U.L. & C.U.L Listed

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
KIT07852	6-12-4NM	1/2 x 4' #10 THHN Wire-Non-Metallic Connectors	6
KIT07868	6-12-4NMR	1/2 x 4' #10 THHN Wire-Non-Metallic Connectors	6
KIT07853	6-12-6NM	1/2 x 6' #10 THHN Wire-Non-Metallic Connectors	6
KIT07865	6-12-6R	1/2 x 6' #10 THHN Wire-Metallic Connectors	6
KIT07850	6-34-4	3/4 x 4' #8 THHN Wire-Metallic Connectors	6
KIT07854	6-34-4NM	3/4 x 4' #8 THHN Wire-Non-Metallic Connectors	6
KIT07851	6-34-6	3/4 x 6' #8 THHN Wire-Metallic Connectors	6
KIT07855	6-34-6NM	3/4 x 6' #8 THHN Wire-Non-Metallic Connectors	6

# HVAC Supplies and Accessories

## DiversiTech

### DiversiWhips, Conduit, Fittings, Cable

#### DiversiWhips with Extended Length Wires



We now offer our DiversiWhips with extra long lead wires for those difficult to wire applications. These whips offer 10" of lead wire on the straight side, and 18" of lead wire on the 90° side.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
KIT07865	6-12-6R	1/2 x 6' #10 THHN Wire-Metallic Connectors	6
KIT07868	6-12-4NMR	1/2 x 4' #10 THHN Wire-Non-Metallic Connectors	6
KIT07867	6-34-6R	3/4 x 6' #8 THHN Wire-Metallic Connectors	6
KIT07871	6-34-6NMR	3/4 x 6' #8 THHN Wire-Non-Metallic Connectors	6

#### EMT (Thinwall) Fittings



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
FTG00890	625-304	Strap-One Hole 1/2"	100
FTG00891	625-305	Strap-One Hole 3/4"	100
FTG00888	625-800	Set Screw Connector 1/2"	50

#### Liquid Tight Connectors



For use with metallic and non-metallic liquid tight conduit, Type B. Provides smooth connection, no sharp edges to strip wire. Wiring easily pulled through. U. L. Listed. C.U.L. Listed.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
CON01105	750-NMLT9050	1/2" Non-Metallic 90 Degree Elbow Connector	10
CON01102	750-NMLT9075	3/4" Non-Metallic 90 Degree Elbow Connector	10
CON01109	750-MLT75	3/4" Metallic Straight Connector	10
CON01110	750-MLT9050	1/2" Metallic 90 Degree Elbow	10
CON01111	750-MLT9075	3/4" Metallic 90 Degree Elbow	10
CON01103	750-NMLT50	1/2" Non-Metallic Straight Connector	25
CON01100	750-NMLT75	3/4" Non-Metallic Straight Connector	10

#### Liquid Tight Flexible Conduit



Specifically for electrical applications. For outside, inside and industrial uses including transformer connections, air conditioning and heating. Joins with metallic or non-metallic connectors, easy to cut. Conduit is impact resistant, chemical resistant and will not kink. U.L. and C.U.L. Listed. For use as indicated in Article 351 of the 1987 NEC.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
CND00108	750-12100	1/2" x 100' Liquid Tight Conduit (Non-Metallic)	100' Roll
CND00109	750-34100	3/4" x 100' Liquid Tight Conduit (Non-Metallic)	100' Roll

Liquid-tight flexible conduit system. A labor saving convenience kit for A/C unit hookup. Also use for heat pumps, refrigeration, hot tubs, swimming pools and outdoor lighting. Three distinct wire colors for ease of hookup. 1 straight and 1 90° metallic or non-metallic connector. 90° connector\* is removable for straight connections. (Second straight connector not included.) U.L. & C.U.L. Listed

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
KIT07851	6-34-6	3/4 x 6' #8 THHN Wire-Metallic Connectors	6

DiversiTech

DiversiWhips, Conduit, Fittings, Cable

Romex Connectors – Metallic



Cable connectors for Romex Wire. Zinc die-cast.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
CON01113	750-RC841	3/8" Romex Connector for 1/2" Knockouts	100
CON01114	750-RC842	3/4" Romex Connector for 3/4" Knockouts	50

Duct Strap, Ties, Clamps

Duct Strap – Metallic – Roll



Galvanized duct strap in convenient cardboard dispenser. Solid strapping, easy to drill or nail.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
SRP00870	710-001	26 Gauge – 1" x 100'	1
SRP00871	710-002	30 Gauge – 1" x 100	1
SRP00872	710-003	30 Gauge – 1-1/2" x 100'	1
SRP00874	710-005	22 Gauge – 1" x 100'	1

Duct Strap – Woven Polypropylene



Webbed duct strap possessing high tensile and abrasion resistance. Chemical resistant. Use for flex duct -easy to cut and staple to joists. U.L. Listed to U.L. spec 2043.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
SRP00876	710-101	1-3/4" x 100 Yards (Silver)	24 Rolls
SRP00875	710-100	1-3/4" x 100 Yards (Black)	24 Rolls
SRP00877	710-102	3" x 100 Yards (Black)	8 Rolls

Hanging Wire

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
WIR03456	710-182G	2# Roll (330') 18 Gauge Galvanized	16 Rolls/Carton
WIR03457	710-185G	5# Roll (830') 18 Gauge Galvanized	16 Rolls/Carton

Terminals, Connectors

Wire Tie Mounts



WTM1

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
MNT02199	WTM1	Wire Tie Mounts – Adhesive Back	4
MNT02200	WTM1C	Wire Tie Mounts – Adhesive Back	100

# HVAC Supplies and Accessories

## DiversiTech

### Duct Strap, Ties, Clamps

#### Heavy Duty Cable Ties



6.6 nylon, the heavy duty duct straps feature smooth insertion, and a locking mechanism that gives ductwork a firm hold. Accommodates 7 to 15 inch duct. Tensioning tool for 32"+ allows operator to adjust strap to any desired tension.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
TOL01655	7-L300	Tensioning Tool for 120-175 lb. Ties	1
TIE00101	7-P24	24" Long – Fits up to 6" Duct – 175 lb. Tensile	50
TIE00102	7-P36	36" Long – Fits up to 10" Duct – 175 lb. Tensile	50
TIE00103	7-P48	48" Long – Fits up to 14" Duct – 175 lb. Tensile	50

#### Plastic Hanger Strap



Flexible, non-conductive. 3/4" wide x .050 thick. Load tested to 120 lbs. In handy dispenser box.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
SRP00913	710-P100	3/4" x 100' Roll (Boxed)	20

### Terminals, Connectors

#### White Nylon Wire Ties



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
TIE00133	WT04C	Wire Ties, 4" Nylon	100
TIE00134	WT05C	Wire Ties, 5" Nylon	100
TIE00138	WT07	Wire Ties, 7" Nylon	30
TIE00106	WT07C	Wire Ties, 7" Nylon	100
TIE00117	WT11C	Wire Ties, 11" Nylon	100
TIE00118	WT15C	Wire Ties, 15" Nylon	100

#### White Nylon Ties w/Mounting Hole



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
MNT02236	WTM05C	Wire Ties, 5" w/Mounting Hole	100
TIE00128	WTM07C	Wire Ties, 7" w/Mounting Hole	100
TIE00105	WTM11C	Wire Ties, 11" w/Mounting Hole	100
TIE00129	WTM14	Wire Ties, 14" w/Mounting Hole	5
TIE00137	WTM14C	Wire Ties, 14" w/Mounting Hole	100

#### Black Nylon Wire Ties



Ultraviolet resistant for outdoor use.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
TIE00135	WTB05C	Black Nylon Ties, 5"	100
TIE00112	WTB07	Black Nylon Ties, 7"	30
TIE00107	WTB07C	Black Nylon Ties, 7"	100
TIE00113	WTB11	Black Nylon Ties, 11"	15
TIE00108	WTB11C	Black Nylon Ties, 11"	100
TIE00114	WTB15	Black Nylon Ties, 15"	12
TIE00119	WTB15C	Black Nylon Ties, 15"	100
TIE00116	WTBA1	Wire Ties, Assorted 4", 7" and 11"	28



DiversiTech

Terminals, Connectors

Black Nylon Ties w/Mounting Hole



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
TIE00123	WTMB05C	Wire Ties, 5" w/Mounting Hole	100
TIE00124	WTMB07C	Wire Ties, 7" w/Mounting Hole	100
TIE00130	WTMB14	Wire Ties, 14" w/Mounting Hole	5
TIE00136	WTMB11C	Wire Ties, 11" w/Mounting Hole	6

Cable Tie Assortment Pack



Convenient, self-contained, assortment pack. Prepackaged resealable bags also suitable for hanging on peg board. Available in 7" and 11", 150 piece bags or 5", 8" and 11", 450 piece bags, black or natural. Carton with header card 14" high.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
TIE00109	7-711	7" and 11" Natural	25 Bags
TIE00110	7-711-B	7" and 11" Black	25 Bags

Wire and Cable Clamps – Nylon



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
CMP01084	WC02C	1/8" Diameter	40
CMP01042	WC04	1/4" Diameter	35
CMP01075	WC06	3/8" Diameter	30
CMP01076	WC08	1/2" Diameter	25
CMP01074	WC10	5/8" Diameter	20
CMP01048	WCA1	Cable Clamps, Assorted, 1/8" to 1"	26

Electrical

Electrical Duplex Receptacles



Automatic grounding for fast installation. Heavy duty mounting strap for additional assembly strength. Copper alloy power/ground contacts for optimum continuity. Side wire design with large binding head terminal screws for fast wiring.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
RCT00847	620-701	15A, 125V, Ivory	10
RCT00844	625-270W	15A 125V, White – Residential	10

Electrical Outlet Boxes, Extensions and Covers

4" steel octagon outlet box, extensions and covers.



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
COV03295	620-306	Flat Cover 1/2" K.O. in Center	50

4" steel square outlet box, extensions and covers.



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
COV03297	620-406	Flat Blank Cover	50
COV03301	620-411	1 Sw and 1 Duplex Receptacle Cover	50

# HVAC Supplies and Accessories

## DiversiTech

### Electrical

#### Electrical Outlet Boxes, Extensions and Covers

4-11/16" steel square outlet box covers.



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
COV03304	620-502	Raised Cover for Single Device	25



620-403

- 4" steel square outlet box, extensions and covers.
- Standard steel utility (Handy) boxes and covers.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
BOX01471	620-201	1-7/8" Deep, 1/2" K.O.s	50
BOX01472	620-202	2-1/8" Deep, 1/2" K.O.s	50
BOX01465	620-401	2-1/8" Deep, 1/2" and 3/4" K.O.s	25
BOX01467	620-403	1-1/2" Deep, 1/2" K.O.s	50

Standard steel utility (Handy) boxes and covers.



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
COV03306	620-252	Flat, Two Duplex Receptacle Cover	100
COV03307	620-253	Flat, Toggle Switch Cover	100
COV03308	620-254	Flat Blank Cover	100

#### Electrical Toggle Switches



Side wire design with automatic grounding and large binding head terminal screws for fast wiring. Lubricated cam provides smooth lever action.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
SWT02808	620-604	15A-1/2 HP120V, Single Pole, Brown	10
SWT02809	620-605	15A-1/2 HP120V, Single Pole, Ivory	10
SWT02638	625-1301W	15A-1/2HP120V Single Pole, White	10

#### Homeline Circuit Breakers



Homeline circuit breakers provide the high level of protection you expect from Square D. No other name in circuit protection is more trusted for reliability and performance than Square D. These are the only breakers accepted in genuine Square D Homeline Load Centers.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
BKR03132	625-GD15H	Two Pole, 15A	5
BKR03133	625-GD20H	Two Pole, 20A	5
BKR03134	625-GD30H	Two Pole, 30A	5
BKR03135	625-GD40H	Two Pole, 40A	5
BKR03137	625-GD60H	Two Pole, 60A	5
BKR03127	625-GS15H	Single Pole, 15A	10
BKR03128	625-GS20H	Single Pole, 20A	10
BKR03129	625-GS30H	Single Pole, 30A	10

DiversiTech

Electrical

Metal Guard Trouble Lights



Designed for rugged use by contractors and industrial. Tough plastic handles are heat and shock resistant, with switch and 15A, 125V grounding side outlet.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
LIT00897	7-TLC10625	25' Metal Guard Trouble Light	1
LIT00898	7-TLC10630	50' Metal Guard Trouble Light	1

Outdoor Extension Cord



Heavy duty, round, vinyl extension cord designed for use by contractors and industrial. Orange vinyl jacket protects against oil, grease, ozone, and gives added flexibility at below freezing temperatures. Vinyl plugs and connectors are molded on and won't break or pull off cord.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
CRD00089	7-ECC1225	25' Extension Cord, 12/3 SJTW-A	10
CRD00090	7-ECC1250	50' Extension Cord, 12/3 SJTW-A	6
CRD00091	7-ECC12100	100' Extension Cord, 12/3 SJTW-A	3
CRD00087	7-ECC1650	50' 15 Amp Extension Cord SJTW-A 16/3	12
CRD00088	7-ECC16100	100' 13 Amp Extension Cord SJTW-A 6/3	6
CRD00083	7-ECC50725	25' 15 AMP Extension Cord SJTW-A 14/3	14
CRD00084	7-ECC50730	50' 15 AMP Extension Cord SJTW-A 14/3	10
CRD00085	7-ECC50735	100' 13 AMP Extension Cord SJTW-A 14/3	5

Power Blocks



Professional design gives contractors and industrial personnel maximum flexibility in arranging portable power needs at the job site. Vinyl connectors are solid molded for high resistance to breakage and abuse.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
TOL02177	7-AD010000	Triple tap power block adapter converts single 15 AMP 123V U-ground outlet to 3 15A, 125V U-ground outlets.	1

Power Supply Cord (Pigtails)



Stranded bare copper conductors. Grounding conductors. PVC jacket. Right and straight angle male plug. 110 Volt. 16 AWG x 6' long.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
CRD00102	625-16-6	Power Supply Cord – Straight Plug	50
CRD00103	625-16-690	Power Supply Cord – 90 Degree Plug	50

# HVAC Supplies and Accessories

## DiversiTech

### Fin Tools

#### SuperComb



Easier to grip, easier to use tool for straightening condenser and evaporator fins. Straightens 50% more fins in one stroke. Keeps hands a safe distance from fins. Easy to grip, strong, durable, heavy duty nylon. Color coded for easy identification. Sold individually or 6 per set. Sales display available.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
TOL01875	T-400	Set of 6 – 1 Each: T-408, T-409, T-411, T-410, T-417, T-418	1
TOL01869	T-408	8 and 10 FPI – Orange	6
TOL01870	T-409	9 and 15 FPI – Yellow	6
TOL01871	T-411	11 and 13 FPI – Blue	6
TOL01872	T-412	12 and 14 FPI – Green	6
TOL01873	T-417	16 and 17 FPI – Lime	6
TOL01874	T-418	18 and 20 FPI – Red	6

### Tools

#### Fin Tools

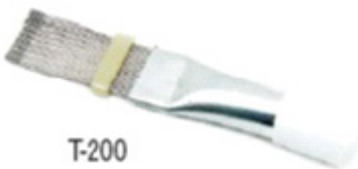
#### Multi-Head Fin-Tool



Conveniently straightens and cleans condenser and evaporator fins. Each nylon head slides into the master handle and tightens in place. The heads are designed to fit units with fin spacing of 4 - 24 fins per inch. Each head is engraved with its own size and is color coded for fast identification. The heads are angled so that when inserted in the handle, the hand is a safe distance from the sharp fins. Fin-Tool heads may also be reversed in the handle, so that combing with an upward stroke (recommended method) may be done easily, with proper leverage. The master handle rests comfortably in a man-size grip, is rigid and long lasting.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
TOL01853	T-1	Handle Only – Black	1
TOL01857	T-11	Head 11 FPI – Blue	3
TOL01858	T-12	Head 12 FPI – Green	3
TOL01859	T-14	Head 14 FPI – Lt. Green	3
TOL01880	T-16	Head 16 FPI – Brown	3
TOL01882	T-18	Head 18 FPI – Red	3
TOL01883	T-20	Head 20 FPI – Purple	3
TOL01884	T-21	Head 21 & 22 FPI – Rose (for Carrier unit)	3
TOL01885	T-23	Head 23 & 24 FPI – Black (for Carrier unit)	3
TOL01811	T-100	Kit (1 Handle and 6 Heads: 8, 9, 10, 11, 12, 14)	12
TOL01877	T-101	Kit (1 Handle and 6 Heads: 13, 15, 16, 17, 18, 20)	12

#### Fin-Tool



Long lasting metal fin straightener. Straightens and cleans condenser and evaporator fins. One tool for all units. The heavy duty spring wire bristles automatically adjust to ALL fin spacings. An exclusive tension adjustment band is featured to allow maximum rigidity and ease of operation. Straightens most severely damaged fins.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
TOL02049	T-200	Fin-Tool	1
TOL02109	T-300	Fin-Tool with heavy duty bicycle handle	12

#### Fin Whisk



A plastic handled whisk for cleaning condenser and evaporator fins.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
BRU00345	B-26	Fin Whisk Brush	12

**DiversiTech**

**Flashlights**

**Mag Charger System**



Without question, the ultimate lighting tool. The rechargeable Mag Charger is the most powerful and durable hand-held flashlight of its size. Battery pack is rechargeable 1000 times. State-of-the-art, electro-formed reflector that emits an incredibly bright, high intensity light. System includes: Mag Charger Flashlight, charging unit, battery pack, two mounting brackets, 12V Cigarette Lighter Adapter, and 110V AC Converter.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
LIT00881	7-RX1019	Mag Charger System	1

**Mag-Lite C and D Cell Flashlights**



Police, security, emergency, medical and fire professionals around the world have come to rely on Mag-Lite C and D Cell flashlights more than any other brand. They know that serious duty demands serious equipment. Quite simply, the finest flashlight in the world.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
LIT00863	7-S2C016	2 Cell C Mag-Lite Flashlight – Black	1
LIT00866	7-S2D016	2 Cell D Mag-Lite Flashlight – Black	1
LIT00864	7-S3C016	3 Cell C Mag-Lite Flashlight – Black	1
LIT00867	7-S3D016	3 Cell D Mag-Lite Flashlight – Black	1
LIT00868	7-S4D016	4 Cell D Mag-Lite Flashlight – Black	1
LIT00869	7-S5D016	5 Cell D Mag-Lite Flashlight – Black	1

**Mag-Lite**



Unbreakable pocket flashlite and magnifier. Ideal for checking small serial numbers and names on compressors or where poor light makes reading difficult to the naked eyes. Magna-Lite 2 is ideal for reading prints, maps, plans and all reading material with fine print. Powerful, optical-quality magnifying lens. Lightweight. Penlight batteries easily replaced.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
LIT00879	ML-100	Magna-Lite – 1-1/2 oz.	12

**Mini Mag-Lite**



The flashlight that changed the industry forever. Until the Mini Mag-Lite was introduced, no one had ever dreamed a flashlight could be so small, yet so powerful. Named as one of the “products America makes best” by *Fortune* and *Money* magazines.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
LIT00873	7-M2A016	Mini Mag-Lite AA – Black	1
LIT00875	7-M2A026	Mini Mag-Lite AA – Camouflage	1
LIT00874	7-M2A036	Mini Mag-Lite AA – Red	1
LIT00871	7-M3A016	Mini Mag-Lite AAA – Black	1
LIT00872	7-M3A036	Mini Mag-Lite AAA – Red	1

**Solitaire AAA Single Cell Flashlights**



Less than an ounce and about three inches in length. Using only a single AAA battery, its focusing beam is surprisingly bright. A spare bulb, battery, and a key lead are included.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
LIT00876	7-K3A016	Solitaire AAA Flashlight – Black	1
LIT00878	7-K3A116	Solitaire AAA Flashlight – Blue	1
LIT00877	7-K3A036	Solitaire AAA Flashlight – Red	1

# HVAC Supplies and Accessories

## DiversiTech

### Mag-Lite Replacement Bulbs

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
BUL00827	7-LWSA201	2 Cell C or D Replacement Bulb 2/cd	12
BUL00826	7-LM2A001	Mini Mag-Lite AA Replacement Bulb 2/cd	12
BUL00831	7-LWSA301	3 Cell C or D Replacement Bulb 2/cd	12
BUL00832	7-LWSA401	4 Cell C or D Replacement Bulb 2/cd	12

### Rayovac Industrial Maximum Alkaline Batteries—Contractor Packs



- Contractor preferred, clear, re-sealable package
- Greater battery per pack quantities command higher battery sales
- Displays much more readily than other competitive batteries
- In a HVAC test market, the Contractor Packs outsold the standard packs by a greater than 2 to 1 ratio!

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK	QTY/DISPLAY CASE
BAT00050	7-AL9V-8	Alkaline 9V Battery – Contractor Pack	8	96
BAT00046	7-ALAA-24	Alkaline AA Battery – Contractor Pack	24	288
BAT00047	7-ALAAA-18	Alkaline AAA Battery – Contractor Pack	18	216
BAT00049	7-ALD-12	Alkaline D Battery – Contractor Pack	12	3.68

### Rayovac Industrial Maximum Alkaline Batteries—Shrink Packed



- Same battery performance as the Contractor Packs at a lower cost
- Formulated specifically to exceed the everyday demands of industrial applications
- Outstanding dependability for “must work” applications

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
BAT00036	7-ALAA	Alkaline AA Battery – Shrink Packed	8
BAT00037	7-ALAAA	Alkaline AAA Battery – Shrink Packed	8
BAT00038	7-ALC	Alkaline C Battery – Shrink Packed	6
BAT00039	7-ALD	Alkaline D Battery – Shrink Packed	6

### Rayovac Lantern Batteries



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
BAT00041	7-6VHDM	6 Volt Heavy Duty Maximum – Spring Terminals	12

### Rayovac Industrial Swivel Lights



- 90° pivoting head shines light exactly where you’re working
- Stand up base, non-roll design and built in hanging ring
- 200% brighter Krypton beam
- Rubber handle and end caps provide comfort and durability

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
LIT00888	7-ILJ2AA-B	2 Cell AA Size Swivel Lite w/Batteries	6
LIT00889	7-ISL2D-B	2 Cell D Size Swivel Lite w/Batteries	6

DiversiTech

Foam Products, Sealants, Adhesives

Foam Sealant – One Component



One component closed-cell expanding polyurethane foam sealant for lineal caulking applications. Air-moisture cure. Tack free in 20 minutes; fully cured in 12 hours. Paintable. Use for insulating and sealing around windows, doors, pipes, ducts and vents. Non-toxic when cured. Paint to protect from UV exposure. R” value 4.7 (1” thickness). Foam contains fire retarding chemical and is U.L. Listed but not rated as a firestop product. Environmental concerns have led us to replace CFC’s and HCFC’s with hydrocarbon material in our one component foam products. See instructions on each product to ensure safe use and quality results.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
SEL00885	1714	Foam 12 oz. can – Yields 275’(3/8” bead)	12
SEL00886	1724	Foam 20 oz. can – Yields 460’(3/8” bead)	12

Geocel Caulking Sealant



Exceptional bonding and sealing caulk for interior and exterior applications involving seams, joints, ductwork, flashing and any similar use. Excellent adhesion to virtually any surface (metals, fiberglass, wood, concrete, brick and most plastics) even if moisture is present. Resealable, paintable, flexible. Will not crack, chip or peel. Specially formulated for the HVACR industry. “Brush Grade” Geocel is a thinner viscosity co-polymer sealant which may be applied with a brush to form a flexible, waterproof seal/coating for roofs, walls, ducts, drain pans and other related applications.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
SEL00888	18001	Geocel Sealant – 11 oz. cartridge – Clear	24

Wasp & Hornet Killer



Enforcer's Wasp & Hornet Killer shoots a 20 foot jet blast for instant knockdown of wasps, hornets, and yellow jackets. Enforcer's Wasp & Yellow Jacket Foam is a 20 foot blast of blanketing foam that plugs yellow jacket holes and clings to wasp and hornet nests, preventing their escape.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
CHM00305	8-WH16	16 oz. Wasp & Hornet Killer	12

Fuses by Littelfuse

Box Cover Units



Maximum amps: 15. Maximum AC volts: 125. For use with Type "T" Plug Fuses.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
SWT02563	620-608	Switch/Fuse Combo (ESSU)	1
SWT02564	620-6083	Switch/Fuse Combo Square (ESSY)	1

Fuse Adapters



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
ADP01037	626-38632	60 to 30 Reducer for Class H, 250V	1

# HVAC Supplies and Accessories

## DiversiTech

### Fuses by Littelfuse

#### Fuse Pullers



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
TOL01648	626-38071	For Fuse Sizes 1/4" to 1/2"	10
TOL01649	626-38073	For Fuse Sizes 1" to 1-3/4"	1

#### Fuseblocks



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
BLK00963	626-23133	1 Pole Screw Class H, 250V	1
BLK00965	626-23333	3 Pole Screw Class H, 250V	1

#### In-Line Fuse Holder



For fusing all control circuits up to 30 amp. Features rigid plastic protective covering for each fuse. Used on AC and DC circuits.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
HLD00276	FH-1	In-Line Fuse Holder	12

## Gallo Gun and Swoosh CO2 Cartridges



Clears condensate drains with a SWOOSH! A lightweight (3 oz.) portable tool designed to blow out drain lines instantly. New larger SWOOSH CO2 cartridges now deliver 1200 PSI of oil free food grade to clear the line. Each unit comes equipped with a tapered fitting to work on 3/8" - 3/4" drain openings. Flexible hose assembly maneuvers through cabinets, coils and hard to reach drains. Cartridges are environmentally safe and recyclable. No need for air or nitrogen tanks. Reduces labor costs and time on Service Calls.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
TOL01751	GG-1	Gallo Gun for A/C Condensate Lines	6
TOL02089	GGC-12	SWOOSH CO2 Cartridges (12/Pack)	6
TOL02246	GG-1A	Gallo Gun Adapter Kit	1

## Glass Cloth, Moisture Sealing, and Economy Electrical Tapes



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
TAP00092	ET22	3/4" x 66' Hiawatha Electrical Tape by 3M	10
TAP00091	ET130C1	1" x 30' Moisture Sealing Splicing Tape by 3M	10

## Scotch 3M Super 33+ Electrical Tape



Premium grade, 7 mil thick, all-weather vinyl insulating tape. Performs continuously in a temperature ambient of up to 220°F and as low as 0°F. Resealable plastic case. Made in USA.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
TAP00087	ET33	3/4" x 66' Super 33+ Electrical Tape	10



DiversiTech

Scotch 3M Super 88 Electrical Tape



Premium grade, 8.5 mil thick, all-weather vinyl insulating tape. Performs continuously in a temperature ambient of up to 220°F and as low as 0°F. Excellent resistance to abrasion, moisture, acids and corrosion. Packaged in a resealable plastic case. Made in the USA.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
TAP00088	ET44	3/4" x 66' Super 88 Electrical Tape	10

Tapes

Carton Tape Dispenser



Heavy duty, boxed.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
TOL02211	540-DISP	Dispenser 2" Carton Tape	1

Cloth Duct Tapes



High-tack, excellent strength. Superior performance in sealing air handling systems. Heavy cloth content for easier tearing and additional strength. Made in the USA.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK	PRICE/ROLL
TAP00070	PC600-S	2" x 60 yds. Contractor Grade Duct Tape – Silver	24	14.12
TAP00068	PC609-S	2" x 60 yds. Industrial Grade Duct Tape – Silver	24	15.52
TAP00072	PC783	2" x 60 yds. Metallized UL181B-FX Flex Duct Tape	24	36
TAP00067	PC622-B	2" x 60 yds. Premium Grade Duct Tape – Black	24	22.76
TAP00066	PC622-S	2" x 60 yds. Premium Grade Duct Tape – Silver	24	22.76
TAP00071	PC600-B	2" x 60 yds. Contractor Grade Duct Tape – Black	24	14.12
TAP00069	PC609-B	2" x 60 yds. Industrial Grade Duct Tape – Black	24	15.52

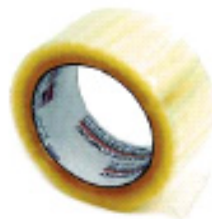
Aluminum Foil Tape



Prevents heating and cooling losses. Blocks odors and moisture. Easy to handle. Use for HVAC and refrigeration systems. -35°F to +260°F working temperatures. 3-5 year shelf life. Made in USA.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
TAP00076	640-AF2	2" Aluminum Foil Tape – 50 yds.	24
TAP00078	640-AF3	3" Aluminum Foil Tape – 50 yds.	16

Carton Sealing Tape



2" nominal width, 110 yd. length, clear, 2.4 mil.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
TAP00065	540-2110C	2" x 110 Yards – Clear	36

# HVAC Supplies and Accessories

## DiversiTech

### Foil Scrim Kraft Tape



Non-tearable, diamond patterned backing with an aggressive rubber based adhesive system for consistently dependable performance. Made in the USA.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
TAP00079	640-FSK2	2" Foil Scrim Kraft Tape – 50 yds.	24
TAP00080	640-FSK3	3" Foil Scrim Kraft Tape – 50 yds.	16

### UL Listed Foil Tape



Unique acrylic adhesive for airtight bonds on joints and seams of fiberglass duct systems. Flexible, easy to use. Meets or exceeds performance standard AFLS-100-73 and UL 181 A-P.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
TAP00082	640-UL3	3" UL 181 Listed Foil Tape – 60 yds.	16
TAP00081	640-UL25	2-1/2" UL 181 Listed Foil Tape – 60 yds.	20

### Teflon Tape



Made of pure white Teflon. Non-toxic. For use with chemicals, solvents, oxygen, and on food lines. Withstands up to 2000 psi of pressure.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
TAP00061	6-733	1/2" x 520" Teflon Tape	200
TAP00062	6-734	1/2" x 260" Teflon Tape	200
TAP00064	6-736	3/4" x 260" Teflon Tape	144

### Hanging Strap



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
SRP00883	HS-30	Hanging Strap 31" long	24
SRP00884	HS-30-2	Hanging Strap 31" long, 2 straps/card	12
SRP00885	HS-60	Hanging Strap 60" long	24
SRP00886	HS-60-2	Hanging Strap 60" long, 2 straps/card	12

### Lashing Strap



Quickly lashes and secures refrigerators, air conditioners, washers, driers, etc. Strong durable nylon web-bing rated at 3000 lbs. and end hooks at 1200 lbs. tensile strength. Hand loop for easy tightening. Steel cam lever buckle is easy to adjust and releases quickly. Secures a maximum load of 1000 pounds. 12 feet long.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
SRP00887	HS-144	Lashing Strap 144" long	6

### Ratchet Strap



Unique ratchet action permits tie-down of appliances securely, positively. Designed with an innovative latch and a fast release cam that reduces socket wear. This cadmium-plated steel buckle has a positive lock that eliminates release due to vibration. When closed, the handle locks the latch into the sprocket to prevent inadvertent release. Easy ratchet tensioning. 16' strong nylon webbing rated at 3000 PSI tensile. Strong vinyl coated end hooks rated at 1200 PSI tensile. Meets Mil.Spec. QQ-P-416.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
SRP00888	HS-192	Ratchet Strap 16' long	3

**DiversiTech**

**Rubber Tie Down Strap**



Can stretch to double its length. Quickly ties down ladders, tubing, cylinders or almost anything. Extra heavy steel "S" hooks on each end. Resists cracking and deterioration.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
SRP00889	RS-9	9"	10
SRP00890	RS-15	15"	10
SRP00891	RS-20	20"	10
SRP00892	RS-31	31"	10
SRP00893	RS-41	41"	10

**Hard Start Kits**

**Torque Plus – DST-5 300% Boost, DST-6 500% Boost**



Totally solid state, our DST-5 is just right for all permanent split capacitor (PSC) compressors from 1/2 to 10 H.P. It can be used on units that operate on 120 through 288 Volts. The DST-6 offers a larger capacitor for severely hard-to-start compressors. The DST-6 can be used on all PSC single phase compressors from 1-1/2 to 10 H.P. A unique combination of relay and safety timer. The capacitor is automatically disconnected in 0.5 seconds if the compressor fails to start.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
KIT07950	DST-5	Torque Plus, 300% Torque Multiplier	1
KIT07951	DST-6	Torque Plus, 500% Torque Multiplier	1

**VariTorque™ 690% Boost, Adjustable & Automatic, Instant Recycling**



DiversiTech is pleased to introduce the next generation in Compressor Hard Start technology - the Varitorque™ 690% Boost, Instant Recycling Hard Start Kit. Adjustable starting torque allows installer to optimize motor starting and minimize problems normally associated with hard start kits. Adjust to reduce electrical load problems including light flicker on compressor startup. Includes patent pending circuitry which protects capacitor, motor and relay. LED indicator provides easy 2 wire hookup. 1/2 to 10 HP.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
KIT09595	DST-10	VariTorque Hard Start Kit	1

**Heating Products**

**Soot Kill™ – Catalytic Soot Remover**



Ready-to-use nonflammable, noncorrosive catalytic soot cleaner. Fast, efficient cleaning of the combustion chamber. The catalytic cleaning action dramatically reduces time consuming vacuuming of the burner chamber. Soot Kill's residual action slows soot accumulation and assures long term heater efficiency.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
CHM00225	HP-SK-16	Catalytic Soot Remover Spray—16 oz.	12

**Hoses, Sprayers**

**Compression Sprayers**



All wand sprayers are of an acid impervious poly design and come with a 36" reinforced hose, shut-off with lock-on feature for continuous spraying, a 2-piece nozzle that's detachable for easy clean up and fits directly to the shut-off or extension wand. The Hand-Held Sprayer has a 48 oz. capacity, perfect for small areas.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
TOL01569	1002	Hand Held Sprayer	1
TOL01570	2601	1 Gallon Wand Sprayer	1
TOL01571	2602	2 Gallon Wand Sprayer	1
TOL01572	2603	3 Gallon Wand Sprayer	1

**HVAC Supplies and Accessories**

# HVAC Supplies and Accessories

## DiversiTech

### Hoses, Sprayers

#### Garden Hose



High quality product priced for high volume sales. Soft-Flex formulation makes the 5 ply Hose easy to handle. Withstands 500 psi water pressure. Heavy duty solid brass couplings and collar.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
HSE01345	5-IG5850	Green Flexon 5-Ply Forever Garden Hose	6

#### Hot Water Hose



High burst strength. 500 PSI. Withstands hot water up to 160°F. EPDM tube. Heavy duty solid brass couplings.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
HSE01346	5-HW5850	5/8" x 50' Hot Water Hose	5

#### Pistol Grips & Water Nozzle



**Pistol Grip - 572 Insulated :** For spraying hot or cold water. Heavy-duty, self adjusting “duck” packing for lifetime proof seal.

**Water Nozzle -573 Un-insulated :** Heavy-duty and holds open clip for continuous spraying. Self-adjusting “duck” for leak proof seal.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
NOZ00840	540-572	Insulated Grip	12/Case
NOZ00841	540-573	Uninsulated Water Nozzle	12/Case

## Industrial Towels

### Kimtex® Towels



Long lasting Kimtex® stands up to oils, chemicals and solvents better than ordinary shop towels. Cloth-like feel and performance. Towel size is 9-3/4" x 16-3/4". 100 towels/box. 5 boxes/case.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
TOL02176	5-33570	Kimtex Shop Towels	100/box

### Shop Towels



Heavy duty reusable towels. For wipe ups of grease, oil, water, etc. 100% cotton material is pre-shrunk and hemmed. Each towel measures 13" x 16".

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
TOL01892	ST-4	Shop Towels	4 per bag
TOL01893	ST-10	Shop Towels	10 per bag
TOL01894	ST-24	Shop Towels	24 per bag

### Teri® Towels



The Teri® reinforced towels feature multi-ply tissue reinforced with nylon webbing for added strength on the job. Made from 100% recycled paper. Towel size is 9-3/4" x 16-3/4". Towel color is white. Comes in a convenient pop up box. 126 towels/box. 10 boxes/case.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
TOL01969	5-34790	Teri Reinforced Towels	126/box

**DiversiTech  
Industrial Towels**

**Workhorse® Manufactured Rags**



The economical alternative to scrap rags. Workhorse® Manufactured Rags is the first product to be made from Kimberly-Clark’s advanced new material - Hydroknit®. Durable, rag tough construction stands up to any task. Can be re-used time and time again. Available in white or blue.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
TOL01766	5-41455	9-3/4" x 16-3/4" White	100/box
TOL01767	5-41411	9-3/4" x 16-3/4" Blue	100/box

**WypAll Plus**



Absorbs grease, oil, water and solvents from floors, hands, parts, tools and machinery. Tough enough for extra heavy jobs. Comes in a convenient pop-up box of 100 towels.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
TOL02174	5-05790	WypAll Plus Towels—White	100/box

**WypAll ShopPro X80 Towels**



Like a rental shop towel, only more consistent. Engineered to feel like cloth and work even better. Absorbs more oil and water faster pound for pound than laundered shop towels. The ShopPro X80 is simply the heaviest duty towel in the Kimberly Clark line. 160 towels/box.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
TOL02101	5-41041	WypAll ShopPro X80 Towels	160/box

**Tools**

**Kimberly-Clark Waterless Hand Wipes**



These wipes go wherever hands go to get dirty. Full sized 12” x 12” wipes for full sized cleaning. Natural cleaning agent is tough on grease, grime, ink, and paint. Dual textured - smooth for wiping on one side and tough for scrubbing on the other. More wipes with our new 75 count bucket.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
TOL01755	5-42272	Kimberly-Clark Waterless Hand Wipes	1 Bucket

**Line Piercing Valves and Tools**

**“MAC” – The Ultimate in Line Piercing Valves**



Install valve. Connect charging hose. Service. That’s all there is to it! MAC features uniport: 1 connection for piercing and servicing. Sealed with refrigerant resistant “O” rings. Needle automatically back seats after servicing, leaving line free of restriction. Connect to tubing with 2 socket-head screws. (Hex wrench is included with each valve.) Needle depressor is inserted into head of needle. Wing cap is turned down easily by hand until line is pierced. Wing cap is removed and system may be serviced with any charging hose with built-in depressor. When hose is removed, spring loaded needle back-seats forming a leak proof seal. Needle depressor is discarded and wing cap forms extra precautionary seal.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
VAL07548	QTM-1	“Mac” 1/4”, 5/16”, 3/8” O.D. Tube Size	36
VAL07549	QTM-2	“Mac” 1/2”, 5/8” O.D. Tube Size	36

# HVAC Supplies and Accessories

## DiversiTech

### Line Piercing Valves and Tools

#### Copper Saddle Valve



For copper-to-copper brazing. Penetrates line in one easy operation with no holes to drill. Steel pin with valve core pierces line and is locked into valve body by tightening cap. Teflon ring assures positive seal. Available in sizes from 1/4" to 1-1/8".

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
VAL07635	VLC-4	1/4" O.D. Tube Size	6
VAL07636	VLC-5	5/16" O.D. Tube Size	6
VAL07637	VLC-6	3/8" O.D. Tube Size	6
VAL07638	VLC-8	1/2" O.D. Tube Size	4
VAL07639	VLC-10	5/8" O.D. Tube Size	3
VAL07640	VLC-12	3/4" O.D. Tube Size	2
VAL07641	VLC-14	7/8" O.D. Tube Size	2

#### Core Removal Tool



Designed to remove and replace valve cores without losing the refrigerant charge. Connects to any 1/4" male flare fitting. Saves time, saves refrigerant.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
RNG01784	VCRT-1RK	O-Ring Kit	1
TOL01830	VCRT-1	Core Removal Tool	1

#### Core Storer



All steel valve core remover and storage container. Completely knurled for easier grip, thus eliminating slippage when using with oily or greasy hands. Core Storer features a compartment for storing extra valve cores. Four replacement cores are included with each tool.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
TOL01760	VCR-1	Core Remover and Storer	1

#### Quick-Tap



Similar to Tap-A-Line but features a valve core in the 1/4" male port. Simply pierce the line and back seat the needle. Flow starts when depressor type charging hose is connected. Flow shuts off automatically when hose is removed. If valve core is not desired, it may be removed. Connect hose, pierce line and back seat needle. This method offers full unrestricted flow. Valve core can be removed or changed at any time without loss of refrigerant if needle is front seated.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
VAL07554	QT-1	Quick-Tap 1/4", 5/16", 3/8" O.D. Tube Size	1
VAL07555	QT-2	Quick-Tap 1/2", 5/8" O.D. Tube Size	1

#### WD-40



Loosens rusted parts. Stops squeaks. Removes tar, grease and adhesives. Displaces moisture. Protects metal.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
LUB00061	741-001	WD-40 8 oz.	12
LUB00062	741-002	WD-40 11 oz.	12

DiversiTech

Markers

Felt Tip Markers



Permanent markers for metal, glass, paper, and plastic. 20% more ink than competitors. Durable metal body.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
TOL02212	540-811	Black, Metal Bodied Felt Tip Marker	12

Valve Action Paint Marker



Bright, crisp, opaque colors. The oil-based paint is quick drying and permanent on most surfaces. These markers also feature the patented valve-operated feed mechanism and a medium point.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
PAI00269	540-805	Black Valve Action Paint Marker	12
PAI00271	540-806	Red Valve Action Paint Marker	12
PAI00270	540-807	White Valve Action Paint Marker	12
PAI00272	540-808	Yellow Valve Action Paint Marker	12

Valve Action Marker



Large ink supply for increased mileage. Fast drying, smear and water resistant. Utilizes a patented valve activated ink feed mechanism to supply ink as required, down to the last drop. Replacement tips available.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
TOL02218	540-800	Black Valve Action Marker-Regular Tip	12

Motor Run Capacitors – 370 VAC

Dual capacitance. Round shape, metal can.



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
CPT01492	3GR0425	Capacitor; Round Motor Run, 25+4 Mfd, 370 Vac, Dual Capacitance	1
CPT01494	3GR0530	Capacitor; Round Motor Run, 30+5 Mfd, 370 Vac, Dual Capacitance	1
CPT01495	3GR0535	Capacitor; Round Motor Run, 35+5 Mfd, 370 Vac, Dual Capacitance	1
CPT01496	3GR0545	Capacitor; Round Motor Run, 45+5 Mfd, 370 Vac, Dual Capacitance	1
CPT01497	3GR0580	Capacitor; Round Motor Run, 80+5 Mfd, 370 Vac, Dual Capacitance	1

# HVAC Supplies and Accessories

## DiversiTech

### Motor Run Capacitors – 370 VAC

Single capacitance. Oval shape, metal can.



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
CPT01456	37030H	Capacitor; Motor Run, 370 Vac, 3 Mfd	1
CPT01457	37040H	Capacitor; Motor Run, 370 Vac, 4 Mfd	1
CPT01450	37050H	Capacitor; Oval Motor Run, 370 Vac, 5 Mfd	1
CPT01451	37075H	Capacitor; Oval Motor Run, 370 Vac, 7.5 Mfd	1
CPT01452	37100H	Capacitor; Oval Motor Run, 370 Vac, 10 Mfd	1
CPT01462	37125H	Capacitor; Motor Run, 370 Vac, 12.5 Mfd	1
CPT01453	37150H	Capacitor; Oval Motor Run, 370 Vac, 15 Mfd	1
CPT01464	37200H	Capacitor; Motor Run, 370 Vac, 20 Mfd	1
CPT01465	37250H	Capacitor; Motor Run, 370 Vac, 25 Mfd	1
CPT01531	37300H	Capacitor; Oval Motor Run, 370 Vac, 30 Mfd	1
CPT01466	37350H	Capacitor; Motor Run, 370 Vac, 35 Mfd	1

Single capacitance. Round shape, metal can.



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
CPT01537	37400R	Capacitor; Motor Run, 370 Vac, 40 Mfd, Round	1

### Motor Run Capacitors – 440 VAC

Dual capacitance. Oval shape, metal can.



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
CPT01516	4JJ0525	Capacitor; Oval Motor Run, 25+5 Mfd, 440 Vac, Dual Capacitance	1
CPT01517	4JJ0530	Capacitor; Oval Motor Run, 30+5 Mfd, 440 Vac, Dual Capacitance	1
CPT01518	4JJ0535	Capacitor; Oval Motor Run, 35+5 Mfd, 440 Vac, Dual Capacitance	1
CPT01519	4JJ0540	Capacitor; Oval Motor Run, 40+5 Mfd, 440 Vac, Dual Capacitance	1
CPT01524	4JJ0545	Capacitor; Oval Motor Run, 45+5 Mfd, 440 Vac, Dual Capacitance	1



**DiversiTech**

**Motor Run Capacitors – 440 VAC**

Dual capacitance. Round shape, metal can.



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
CPT01498	4JR0525	Capacitor; Round Motor Run, 25+5 Mfd, 440 Vac, Dual Capacitance	1
CPT01499	4JR0530	Capacitor; Round Motor Run, 30+5 Mfd, 440 Vac, Dual Capacitance	1
CPT01500	4JR7530	Capacitor; Round Motor Run, 30+7.5 Mfd, 440 Vac, Dual Capacitance	1
CPT01502	4JR7535	Capacitor; Round Motor Run, 35+7.5 Mfd, 440 Vac, Dual Capacitance	1
CPT01503	4JR0540	Capacitor; Round Motor Run, 40+5 Mfd, 440 Vac, Dual Capacitance	1
CPT01504	4JR0545	Capacitor; Round Motor Run, 45+5 Mfd, 440 Vac, Dual Capacitance	1
CPT01505	4JR0555	Capacitor; Round Motor Run, 55+5 Mfd, 440 Vac, Dual Capacitance	1

Single capacitance. Oval shape, metal can.



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
CPT01475	45100H	Capacitor; 440 Vac Oval Motor Run, 10 Mfd	1
CPT01476	45125H	Capacitor; 440 Vac Oval Motor Run, 12.5 Mfd	1
CPT01477	45150H	Capacitor; 440 Vac Oval Motor Run, 15 Mfd	1
CPT01479	45200H	Capacitor; 440 Vac Oval Motor Run, 20 Mfd	1
CPT01480	45250H	Capacitor; 440 Vac Oval Motor Run, 25 Mfd	1
CPT01481	45300H	Capacitor; 440 Vac Oval Motor Run, 30 Mfd	1
CPT01467	45350H	Capacitor; Motor Run, 440 Vac, 35 Mfd	1
CPT01468	45400H	Capacitor; Motor Run, 440 Vac, 40 Mfd	1
CPT01454	45450H	Capacitor; Oval Motor Run, 440 Vac, 45 Mfd	1
CPT01533	45500H	Capacitor; Motor Run, 440 Vac, 50 Mfd	1
CPT01471	45040H	Capacitor; 440 Vac Oval Motor Run, 4 Mfd	1
CPT01472	45050H	Capacitor; 440 Vac Oval Motor Run, 5 Mfd	1
CPT01473	45060H	Capacitor; 440 Vac Oval Motor Run, 6 Mfd	1
CPT01474	45075H	Capacitor; 440 Vac Oval Motor Run, 7.5 Mfd	1

Single capacitance. Round shape, metal can.



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
CPT01543	45250R	Capacitor; Motor Run, 440 Vac, 25 Mfd, Round	1
CPT01544	45300R	Capacitor; Motor Run, 440 Vac, 30 Mfd, Round	1
CPT01545	45350R	Capacitor; Motor Run, 440 Vac, 35 Mfd, Round	1
CPT01547	45450R	Capacitor; Motor Run, 440 Vac, 45 Mfd, Round	1
CPT01548	45500R	Capacitor; Motor Run, 440 Vac, 50 Mfd, Round	1
CPT01549	45600R	Capacitor; Motor Run, 440 Vac, 60 Mfd, Round	1

# HVAC Supplies and Accessories

## DiversiTech

### Motor Start Capacitors – 110/125 VAC

Variable capacitance. Round shape, plastic can.



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK	uf
CPT01557	189-227	Capacitor; Start Capacitor, 189-227 Mfd, 110/125 Vac, Round	1	189-227
CPT01558	378-440	Capacitor; Start Capacitor, 378-440 Mfd, 110/125 Vac, Round	1	378-440

### Motor Start Capacitors – 330 VAC

Variable capacitance. Round shape, plastic can.



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK	uf
CPT01486	108-130330	Capacitor; 330 Vac Round Motor Start, 108-130 Mfd	1	108-130
CPT01487	124-156330	Capacitor; 330 Vac Round Motor Start, 124-156 Mfd	1	124-156
CPT01488	145-175330	Capacitor; 330 Vac Round Motor Start, 145-175 Mfd	1	145-175
CPT01489	161-193330	Capacitor; 330 Vac Round Motor Start, 161-193 Mfd	1	161-193
CPT01491	216-259330	Capacitor; 330 Vac Round Motor Start, 216-259 Mfd	1	216-259
CPT01485	88-108330	Capacitor; 330 Vac Round Motor Start, 88-108 Mfd	1	88-108

## Paints and Primers

### All Purpose Emel



An all purpose premium quality alkyl enamel formulated with an exclusive resin system that out performs ordinary enamels. Fights rust and is non fading. 15-49% more square foot coverage vs. other brands.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
PAI00262	799-031	Gray Primer	6
PAI00263	799-032	Gloss Black	6
PAI00266	799-035	Gloss White	6

### General Purpose Spray Paint



New, more complete line of professional quality fast drying spray paints. Color code compressors or refrigerant recovery cylinders to match standard refrigerant identifying colors. Touch up equipment housings.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
PAI00273	799-001	Gloss Black	6
PAI00274	799-002	Flat Black	6
PAI00268	799-003	Gloss White	6
PAI00275	799-011	Aluminum (Silver)	6

### Spray Any Way Emel



Finally an aerosol paint that sprays in any direction without clogging. We guarantee it! Dries tack free in 10 to 20 minutes; fully dry in just one hour. Excellent corrosion and solvent resistance. Resists heat up to 250°F.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
PAI00255	799-020	Gloss Black	6
PAI00257	799-022	Gloss White	6
PAI00259	799-024	Machinery Light Gray	6
PAI00261	799-025	Aluminum	6

DiversiTech

Permanent Air Filters

DiversiTech Permanent Air Filters



Every filter makes trade-offs between letting too much air through (good for the unit) and trapping too much “stuff” (good for the homeowner). Where is the right balance? What is best for the homeowner and their unit? DiversiTech offers two permanent air filters. Choose the **Red Label Filter** for a good balance between ample air flow and ability to trap dust. Choose the **Blue Label Filter** if you feel greater air flow is needed, perhaps for older units.

**RED LABEL FILTER**  
 0.12 Initial Resistance                      76% Average Dust Arrestance  
 82% Peak Dust Arrestance                  147 gm. Dust Holding Capacity

**BLUE LABEL FILTER**  
 0.08 Initial Resistance                      67% Average Dust Arrestance  
 73% Peak Dust Arrestance                  99 gm. Dust Holding Capacity

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	1" NOMINAL SIZE
FLR04071	AFR1420-1	Filter; Diversitech Red Label Air Filter, 14 X 20 X 1	14 x 20 x 1
FLR04073	AFR1425-1	Filter;Diversitech Red Label Air, 14 x 25 x 1	14 x 25 x 1
FLR04074	AFR1430-1	Filter;Diversitech Red Label Air, 14 x 30 x 1	14 x 30 x 1
FLR04078	AFR1625-1	Filter;Diversitech Red Label Air, 16 x 25 x 1	16 x 25 x 1
FLR04084	AFR2025-1	Filter;Diversitech Red Label Air, 20 x 25 x 1	20 x 25 x 1
FLR04092	AFB1424-1	Filter;Diverstech Blue Label Air, 14 x 24 x 1	14 x 24 x 1
FLR04098	AFB1625-1	Filter;Diversitech Blue Label Air, 16 x 25 x 1	16 x 25 x 1
FLR04104	AFB2025-1	Filter;Diversitech Blue Label Air, 20 x 25 x 1	20 x 25 x 1

Pipe Strap by DiversiTech

Twenty-eight gauge galvanized. Alternating nail and bolt holes.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Description
SRP00867	710-A1710	10' roll
SRP00868	710-A1650	50' roll
SRP00869	710-A16100	100' roll

DiversiTech

Pipe, Tubing, Fittings

Nylon Fittings



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
ADP01092	701-002	Adapter – 1/2 Barb x 3/4 MPT	2
ADP01093	701-014	Adapter – 5/8 Barb x 3/4 MPT	2
ELL01001	701-020	Elbow – 1/2 Barb x 3/4 MPT	2
ELL01002	701-028	Elbow – 5/8 Barb x 3/4 MPT	2
FTG01015	701-032	Hose Mender – 3/8 Barb	2

Polyethylene Tubing



F.D.A. approved, flexible, non-toxic tubing. Tasteless and odorless, lightweight, low density. Ideal for drinking water lines, evaporative coolers, and radiant heating. I.D.: 11/64", O.D.: 1/4", Wall: 0.040, Max. W/P (in.) PSI @ 70F: 150.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
TUB11244	PE-104	Polyethylene Tubing – 100' Roll	1

HVAC Supplies and Accessories

# HVAC Supplies and Accessories

## DiversiTech

### Pipe, Tubing, Fittings

#### PVC Condensate Pipe



Polyvinyl Chloride, white PVC 1120

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
PIP01037	5-401	3/4" PVC – Sch. 40	10' Straight End
PIP01039	5-404	2" PVC – Sch. 40, ASTM 2665	10' Straight End
PIP01040	5-405	3" PVC – Sch. 40, ASTM 2665	10' Straight End

#### CPVC-CTS Pipe and Fittings



Flowgard Gold is a patented CPVC formulated compound developed by BF Goodrich to improve the impact resistance of CPVC hot and cold water plumbing products.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
PIP01114	4700-12	1/2" x 10' CPVC Pipe	500'
CPL01053	4701-12	1/2" Coupling S x S	20
CPL01054	4701-34	3/4" Coupling S x S	20
ADP01084	4703-34	3/4" Adapter F x S	25
ADP01085	4704-34	3/4" Adapter M x S	10
ELL01011	4706-12	1/2" 45° Elbow S x S	20
ELL01010	4707-12	1/2" 90° Elbow S x S	20
TEE00952	4711-12	1/2" Tee S x S x S	20
TEE00953	4711-34	3/4" Tee S x S x S	20

#### PVC DWV Fittings

##### 45 Elbow (Hub x Hub)



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
ELL00970	5-321020	2"	50

##### 90 Elbow (Hub x Hub)



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
ELL00966	5-300020	2"	50
ELL00968	5-300030	3"	25
ELL00967	510-D304020	2" Long Sweep	25
ELL00969	510-D304030	3" Long Sweep	10

##### Couplings (Hub x Hub)



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
CPL01008	5-100030	3"	60
CPL01009	510-D102338	3" x 2"	20

**DiversiTech**  
**PVC DWV Fittings**  
 Plastic DWV J-Hooks



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
HLD00281	515-J2000	2" x 7-1/2" DWV Swiveling J-Hook	25
HLD00282	515-J3000	3" x 7-1/2" DWV Swiveling J-Hook	25

**PVC Schedule 40 Pressure Fittings**

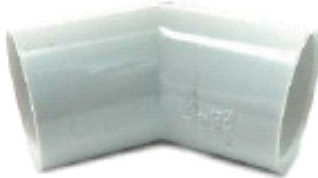
**3/4" Rubber Elbow**

Allows for quick disconnect and reconnect of drain lines. Made of 60 DURO EPDM.



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
ELL01015	5-520	3/4" Rubber Elbows	50

**45 Eil (Slip x Slip)**



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
FTG00961	5-417007	3/4"	50
ELL00993	5-417010	1"	50
ELL00977	5-417020	2"	25
ELL00978	5-417030	3"	10

**90 Eil (Slip x FPT)**



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
ELL01019	5-407007	3/4"	50
ELL00994	5-407010	1"	50

**90 Eil (Slip x Slip)**



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
ELL01016	5-406005	1/2"	50
FTG00958	5-406007	3/4"	100
ELL00992	5-406010	1"	50
ELL01030	5-406020	2"	25
ELL00976	5-406030	3"	10

**90 Eil Reducing (Slip x FPT)**



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
ELL01018	5-407074	1/2" x 3/4"	50

**90 Street Eil (MIPT x Slip)**



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
ELL01021	5-410010	1"	50
ELL01020	5-410007	3/4"	50
ADP01090	701-102	1"	50

# HVAC Supplies and Accessories

## DiversiTech

### PVC Schedule 40 Pressure Fittings

90 Street Ell (SPIG x Slip)



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
FTG00969	5-409007	3/4"	50

Cap (FIPT)

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
CAP00984	5-448005	1/2"	100
CAP00978	5-448007	3/4"	100

Cap (Slip)



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
CAP00979	5-447010	1"	50

Clean Out Tee



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
TEE00955	510-3400	3/4" Clean Out Tee	50

Coupling (Slip x Slip)



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
CPL01055	5-429005	1/2"	100
FTG00962	5-429007	3/4"	100
CPL01047	5-429010	1"	50
CPL01018	5-429020	2"	25
CPL01019	5-429030	3"	10

Female Adapter (Slip x FIPT)



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
FTG00959	5-435007	3/4"	100
ADP01078	5-435010	1"	25

Female Adapter Reducing (Slip x FIPT)



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
ADP01087	5-435074	1/2" x 3/4"	50

DiversiTech

PVC Schedule 40 Pressure Fittings

Male Adapter (MIPT x Slip)



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
FTG00960	5-436007	3/4"	100

Male Adapter Reducing (MIPT x Slip)



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
ADP01079	5-436131	1" x 3/4"	50



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
CAP00985	5-447007	3/4"	100

Plug (MIPT)



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
PLG00032	5-450007	3/4"	50

Tee (Slip x Slip x Slip)



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
FTG00957	5-401007	3/4"	100
TEE00958	5-401020	2"	25
TEE00959	5-401030	3"	10

Traps (Slip x Slip)



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
FTG00955	5-408	3/4" "P" Trap	100
FTG00956	5-409	3/4" Running Trap	100
TRP00037	5-411	1" "P" Trap	50

# HVAC Supplies and Accessories

## DiversiTech

### Pliers



Slender, perfectly mated jaws with no side wobble provide a firm grip on fine work in tight places. Sharp, hand honed side cutters on some styles. High polished finish. Channellock Blue™ dipped plastic comfort grips.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
TOL02189	545-317	7-1/2" Long Nose Pliers w/Side Cutters	1
TOL02190	545-326	6" Long Nose Pliers w/Side Cutters	1
TOL02196	545-337	7" Lap Joint Cutting Pliers	1
TOL02192	545-348	8-1/2" Rounded Nose Lineman Electrician Pliers	1
TOL01600	545-447	3/4" Box Joint Curved Diagonal	1
TOL02199	545-526	6" Slip Joint Pliers	1
TOL02252	545-909	Crimping Tool	1
TOL02193	545-3047	7" Bevel Nose Lineman Electrician Pliers	1

### Point Of Purchase Displays

#### MR-1 Mac Rack\*



A counter, shelf, or pegboard mount rack, designed specifically to increase contractor impulse purchases in the wholesale distributor walk-in area. The Mac Rack features the most popular access fittings and line tap valves. The point of purchase display is furnished complete with rack, hooks, shelves, plan-o-gram, and product. The rack requires only a 9" x 26-1/2" footprint.

SERVICEFIRST ITEM NO	VENDOR ITEM NO
RCK00259	MR-1

#### Point of Purchase 100 Floor Standing Revolving Rack (four panel)\*



A floor standing revolving point of purchase rack designed specifically to increase contractor impulse purchases in the wholesale distributor walk-in area. This rack features some of the fastest moving HVAC/R components, tools, and consumables. Included are electrical connectors, wire ties, fin combs, pan tablets, Gallo Gun and the wet switch. The point of purchase display is furnished complete with the revolving rack, hooks, shelves, plan-ogram, and product. The revolving display requires only a 30" x 30" footprint.

SERVICEFIRST ITEM NO	VENDOR ITEM NO
DSP00023	POP-100

#### Point of Purchase 100 Floor Standing Revolving Rack (four panel)\*



A floor standing revolving point of purchase rack designed specifically to increase contractor impulse purchases in the wholesale distributor walk-in area. This rack features some of the fastest moving HVAC/R components, tools, and consumables. Included are electrical connectors, wire ties, fin combs, pan tablets, Gallo Gun and the wet switch. The point of purchase display is furnished complete with the revolving rack, hooks, shelves, plan-ogram, and product. The revolving display requires only a 30" x 30" footprint.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
CMP01080	WC06C	Wire and Cable Clamps, Nylon, 3/8" Diameter
CMP01087	WC08C	Wire and Cable Clamps, Nylon, 1/2" Diameter
FTG00940	GG-1-90	90° Fitting (for tight work space)
SCR02094	5-SCR81-2-100	Sheet Metal Screws, 8 x 1/2 Taper Point



**DiversiTech**

**PRO-TREAT Tablets**

**PRO-TREAT 151 Premium Condensate Drain Pan Treatment**



PRO-TREAT 151 premium tablets penetrate and help remove sludge that can plug drain pans and drain lines and foul humidifier pans. PRO-TREAT 151 tablets kill odors associated with slime and sludge, minimizing maintenance problems from overflow and water damage caused by fouled pans, plugged traps, or drain lines. PRO-TREAT 151 tablets are 100% soluble, easy to use, and do not form any deposits in the pan or drain line. Approved for use in computer rooms. Dosage: 1 tablet per 3 tons each month. PROTREAT 153 contains 6 PT-151 tablets per card. PT-151 and PT-153 are EPA registered.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
CHM00308	PT-151	PRO-TREAT 151 – 100 Tablets per Jar	12
CHM00310	PT-153	PRO-TREAT 153 – 6 Tablets per Pack	24

**PRO-TREAT 152 King-Size Premium Condensate Drain Pan Treatment**



King-size premium tablets with the same formulation as PRO-TREAT 151. One PRO-TREAT 152 tablet lasts 3 times longer than the smaller PRO-TREAT 151 tablet. Dosage: 1 tablet per 3 tons every 3 months.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
CHM00309	PT-152	PRO-TREAT 152 King-Size Tablets – 12 per Jar	6

**PRO-TREAT 154 Evaporative Air Cooler Cleaner and Deodorizer**



Regular use of PRO-TREAT 154 tablets extends equipment life, helps maintain unit efficiency (saving energy) and prevents musty swamp odors from forming. Approved for computer room use. Dosage is determined from the cubic feet per minute of air flow. Typically treatment is one tablet per 5300 CFM.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
CHM00639	PT-154	PRO-TREAT 154 – 1 Tablet per Pack	12
CHM00640	PT-154B	PRO-TREAT 154 – 12 Tablets per Jar	12

**PRO-TREAT 161 Condensate Drain Pan Treatment**



PRO-TREAT 161 controls odors and eliminates condensate drain pan overflows and the resulting water damage. PRO-TREAT 161 pills are completely soluble, easy to use, non-corrosive, and non-toxic. Use regularly to assure season-long, trouble-free condensate drain pan performance. Approved for use in computer rooms. Dosage: 2 tablets per 3 tons each month.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
CHM00296	PT-161	PRO-TREAT 161 – 100 Tablets per Jar	12

**PRO-TREAT 200 Condensate Drain Pan Treatment**



PRO-TREAT 200 tablets are effective in eliminating condensate drain pan problems that result in odors, overflows and subsequent water damage. PRO-TREAT 200's long-lasting formula not only cleans sludge accumulations, but also assures season-long trouble-free performance eliminating costly nuisance callbacks. PRO-TREAT 200 is biodegradable, non-corrosive and non-toxic. Approved for use in computer rooms. Dosage: 3 tablets per 3 tons each month.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
CHM00297	PT-200	PRO-TREAT 200 – 200 Tablets per Jar	12
CHM00554	PT-217	PRO-TREAT 200 – 280 Tablets per Jar – 1.7 Gram Tablet	12

# HVAC Supplies and Accessories

## DiversiTech

### PRO-TREAT Tablets

#### Super-Flow Condensate Pan Treatment



State of the art, water based, polymer formula maintains condensate flow and prevents drain pan overflow. 100% active with no residue, no waste. Long term condensate activated release. Non-toxic and non-corrosive with sizes to meet all tonnage requirements. Biodegradable and computer room safe.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
CHM00642	SF-5	1.25 lb Tubs	18

### PRO-TREAT Tablets and FLOW PLUS Treatments

#### Flow Plus™ Condensate Drain Pan Treatment



- **Unique** - Polymer formula maintains condensate flow and prevents drain pan overflow.
- **100% Active** - No residue. No waste. Nonclogging
- **Effective** - Long term condensate activated release.
- **Environmentally Safe** - Nontoxic and noncorrosive.
- **Economical** - Sizes to meet all tonnage requirements.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	PACKAGE	STANDARD PACK
CHM00626	SCM-183-200	200 Tabs/Jar	4 Jars/Case
CHM00635	SCM-183-16	25 Tabs/Jar	24 Jars/Case

### Reach-It



Retracts to 5" long. Made of durable chrome plated brass. Match can be quickly inserted.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
TOL01985	R-1	Reach-It extends to 26-3/4"	12

### Refrigerant Charging

#### COP-CAP™



An effective way to discourage and prevent the removal of refrigerant. Simply thread COP-CAP™ assembly onto existing 1/4" flare connection on system and lock set screw in place with hex wrench provided.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
TOL02066	VCC-4	COP-CAP™	2

#### Insta-Charge



Faster, safer and more economical method for charging LIQUID refrigerant through the low pressure side of an air conditioning or refrigeration system, without damaging the compressor. Insta-Charge's unique internal restrictor reduces liquid flow to a level below the capacity of the compressor. Converts liquid refrigerant to a saturated vapor for fast entry. Insta-Charge connects directly to the refrigerant can or cylinder valve. Adds liquid tracing dye faster. Eliminates heating of refrigerant cylinder. Made of light weight aluminum. Sold at a fraction of the cost of other fast charging devices.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
TOL02456	RC-1	Insta-Charge	1

DiversiTech

Refrigerant Labels

DiversiTech Refrigerant ID Labels



These 3" x 4" self-adhesive vinyl labels use a high-tack acrylic adhesive and UV cured screen printing. Color coded to conform to refrigerant labeling convention. Each label indicates the type of refrigerant (eg. R-11), the chemical name (eg. Trichloromonofluoromethane) and the UN No. (eg. UN 1078). Avoid costly mistakes by properly identifying the type of refrigerant contained in recovery cylinders and air conditioning and refrigeration equipment. Custom labels available.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
LBL00262	4013	R-13 Refrigerant ID Labels	10
LBL00225	4123	R-123 Refrigerant ID Labels	10
LBL00237	4011	R-11 Refrigerant ID Labels	10
LBL00239	4113	R-113 Refrigerant ID Labels	10
LBL00238	4012	R-12 Refrigerant ID Labels	10
LBL00224	4134	R-134a Refrigerant ID Labels	10
LBL00235	4022	R-22 Refrigerant ID Labels	10
LBL00240	4410	R-410A (AZ20) Refrigerant ID Labels	10
LBL00247	4401	R-401A (MP39) Refrigerant ID Labels	10
LBL00248	4402	R-402A (HP80) Refrigerant ID Labels	10
LBL00249	4404	R-404A (HP62/FX70) Refrigerant ID Labels	10
LBL00251	4056	R-409A (FX56) Refrigerant ID Labels	10

System Refrigerant/Oil Labels (3" x 4")

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
LBL00242	4800	EPA Fill-In Warning Labels	10
LBL00243	4850	Refrigerant Removed Labels	10
LBL00244	4852	System Refrigerant/Oil Labels	10

Refrigerant Recovery Products



DOT Classified for recovery, recycling, service and reclaim. Liquid and vapor valves ("Y" valve or separate valve configurations) are installed in all cylinders. Painted yellow/gray per ARI guidelines. Float switches have 3-pin Brad Harrison connectors.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	DOT CLASS	3/4" NPT PLUG	FLOAT SWITCH	WATER CAP	TARE WT	PRICE/EAC H
CYL00204	2033	30 lb.	4BA400	YES	NO	26.2 lbs.	17 lbs.	
CYL00205	2053	50 lb.	4BA400	YES	NO	47.7 lbs.	28 lbs.	CALL
CYL00208	2100	100 lb.	4BW400	YES	NO	123 lbs.	48 lbs.	QUOTE

Refrigeration Oils

PRO-LUBE-ALK™ Alkylbenzene



Specialty Chemical alkylbenzene is recommended for refrigeration, air conditioning, and heat pump applications using HCFC and CFC refrigerants. Specialty Chemical's alkylbenzene is an excellent choice when retrofitting to the new refrigerants which are HCFC based such as R-401A (MP-39), R-401B (MP- 66), R-402A (HP-80), R-402B (HP-81). OEM approved by Copeland and other compressor manufacturers.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	PACKAGE	DESCRIPTION	STANDARD PACK
OIL00101	ALK-150	1 gallon jug	SUS150 ISO32	4

Rough Service Light Bulbs



Designed to withstand unusual shock and abuse on drop cords, mechanic trouble lights, extension cords and anywhere else severe shocks may be encountered. 6 bulbs per box. 120/case.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
BUL00820	7-75W	75 Watt Rough Service Bulb – Bulk Packed	120
BUL00821	7-100W	100 Watt Rough Service Bulb – Bulk Packed	120

HVAC Supplies and Accessories

# HVAC Supplies and Accessories

## DiversiTech

### Safety Supplies & Devices

#### Safety Glasses



High-impact polycarbonate with large, protective side shields and browguard. Handsome aviator styling guarantees quick sales. Tour-Guard III® Style Safety Glasses feature traditional styling while providing economical eye protection. Meets ANSI Z87.1. Fits over personal glasses. Tour-Guard comes in a 20 unit dispenser box. Nassau Plus® Safety Glasses offer the best value in performance, style, and comfort. Rimless unilens styling with a colorful nylon frame. 99.9% UV protection. Adjustable temples give a comfortable custom fit. Exclusive anti-fog coating.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
GLS00862	505-13640	Aerosite® Slate Gray w/Clear Lens	10
GLS00863	505-13641	Aerosite® Slate Gray Lens	10
GLS00864	505-14200	Nassau Plus Black Frame/Clear Lens	10
GLS00865	505-14201	Nassau Plus Black Frame/Gray Lens	10
GLS00866	505-14203	Nassau Plus Blue Frame/Clear Lens	10
GLS00867	505-14204	Nassau Plus Blue Frame/Gray Lens	10
GLS00868	505-14315	Nassau Plus Red Frame/Clear Lens	12

#### Shoe Covers



Slip these shoe covers on in seconds to protect carpet, tile, or wood from dirt and scuff marks. Customers will appreciate your professional appearance.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
COV03639	SC-1	Dark Blue Shoe Covers	50 Pair/Box

#### Scales

##### Electronic Utility Scales



Constructed for heavy duty weighing. Perfect for warehouse use, check weighing, large crates and shipping freight. Low profile platform. Control panel can be wall mounted for easy viewing. Large LCD display. Operates with AC adapter (included) or one 9V battery (not included).

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
TOL01646	660-004	150 lb Capacity (Pelouze #4010)	1

##### Refrigerant Hanging Scale



Check-weigh gas cylinder contents when filling or recapturing. Know the exact gas weight! Dial adjusts for tare weight. Dual dial markings run clockwise and counter clockwise. Lightweight. Scale goes wherever the serviceman goes! Suspension accessory included.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
TOL01643	660-001	Hanging Scale – Pelouze #D70	1

##### Utility Scales



Large easy to read dial can be viewed from top or side. Low profile enables you to slide cartons and crates onto scale. Memory Lock holds reading when dial is obscured. Perfect for shipping and receiving parcels or crates in the mailroom or warehouse.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
TOL01644	660-002	100 lb Capacity (Pelouze #P100S)	1
TOL01645	660-003	250 lb Capacity (Pelouze #P250S)	1

**DiversiTech**

**Sheet Metal Screws**

**Sheet Metal Screw Assortment Kit**



The 7 most popular sizes in one multi-compartmented, resealable, plastic container. Perfect for the toolbox or work van. Contains:

- 7x1/2 Taper Point - 175 pieces
- 8x1/2 Drill Point - 100 pieces
- 8x1 Taper Point - 50 pieces
- 8x2 Taper Point - 40 pieces
- 8x1/2 Taper Point - 175 pieces
- 8x3/4 Taper Point - 60 pieces
- 8x1-1/2 Taper Point - 50 pieces
- 1/4" Nut Setter - 1 each

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
SCR01975	5-SCR-AK	Sheet Metal Screw Assortment Pack	1

**Sheet Metal Screws – Drill Point**



Self-drilling, self-tapping. Hex washer head. Produces the optimum hole size, resulting in a tighter fit. Made from special heat treated steel for extra strength. Packaged in resealable plastic cartons.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
SCR01953	5-SCR61-2DP	6x1/2 Drill Point	1000
SCR01955	5-SCR81-2DP	8x1/2 Drill Point	1000
SCR01957	5-SCR83-4DP	8x3/4 Drill Point	500
SCR01959	5-SCR81DP	8x1 Drill Point	500
SCR01961	5-SCR81-12DP	8x1-1/2 Drill Point	500
SCR01963	5-SCR82DP	8x2 Drill Point	350
SCR01965	5-SCR101-2DP	10x1/2 Drill Point	500
SCR01967	5-SCR103-4DP	10x3/4 Drill Point	500
SCR01969	5-SCR101DP	10x1 Drill Point	500
SCR01971	5-SCR101-12DP	10x1-1/2 Drill Point	250
SCR01973	5-SCR102DP	10x2 Drill Point	350

**Sheet Metal Screws – Taper Point**



Hex washer slotted head. Burr-free. Full 1/4" head will not strip out of hex driver opening. Heat treated tapered point will not break or "walk". Packaged in resealable plastic cartons.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
SCR01935	5-SCR81-2	8 x 1/2 Taper Point	1,000
SCR01937	5-SCR83-4	8 x 3/4 Taper Point	1,000
SCR01938	5-SCR83-4BULK	8 x 3/4 Taper Point – Bulk	10,000
SCR01939	5-SCR81	8 x 1 Taper Point	500
SCR01941	5-SCR81-12	8 x 1-1/2 Taper Point	250
SCR01942	5-SCR81-12W	8 x 1-1/2 Taper Point w/White Head	250
SCR01944	5-SCR82	8 x 2 Taper Point	350
SCR01945	5-SCR82W	8 x 2 Taper Point w/White Head	350
SCR01947	5-SCR101-2	10 x 1/2 Taper Point	1,000
SCR01949	5-SCR103-4	10 x 3/4 Taper Point	1,000
SCR01951	5-SCR101	10 x 1 Taper Point	500
SCR02084	5-SCR81-2BULK	8 x 1/2 Taper Point – Bulk	12,000

**Tools**

**Anchor Kit**



Plastic anchor kit for sheet rock applications. Kit includes 100 anchors, screws and 1 masonry bit.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
KIT07846	540-AK100	Anchor size 1/4 x 1, Screw Size 10 x 1-1/4 HWH Head Size 5/16 hex	100/box

# HVAC Supplies and Accessories

## DiversiTech

### Snips

#### Aviation Snips



540-6716L

Moly alloy tool steel blade is hot drop-forged and scientifically heat-treated to provide a strong, longer lasting cutting edge. Durable serrated blades are designed to grip the metal for cutting ease. The patent pending spring on these snips is guaranteed to last for the life of the tool. Will cut 18 gauge cold-rolled steel.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
TOL00350	540-6716L	Aviation Snip – Cuts Left – Red Handle	6
TOL00351	540-6716R	Aviation Snip – Cuts Right – Green Handle	6
TOL00349	540-6716S	Aviation Snip – Cuts Straight – Yellow Handle	6

#### HVAC Tools



Hot drop-forged carbon steel blades. Compound leverage action handles. Heavy duty plastic grips.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
TOL01599	540-FCTS2	3" Offset Seamer – 22 Ga. Capacity	2

#### Offset Snips



540-6510R

The same high quality construction as the Aviation Snips with an additional advantage - the Offset Snips allow your hand to stay above metal for cutting ease and comfort.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
TOL00353	540-6510L	Offset Snip – Cuts Left – Red Handle	6
TOL00354	540-6510R	Offset Snip – Cuts Right – Green Handle	6

## Thermostat Wire

### DiversiTech-Stranded Copper THHN Wire

#### 50 FT. Spool



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
WIR03617	W121-50	12 Gauge 50 ft Spool,Black	1 Spool
WIR03618	W122-50	12 Gauge 50 ft Spool,Red	1 Spool
WIR03620	W124-50	12 Gauge 50 ft Spool,Blue	1 Spool
WIR03621	W125-50	12 Gauge 50 ft Spool,White	1 Spool

#### 100 FT. Spool



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
WIR03627	W801-100	08 Gauge 100 ft Spool,Black	1 Spool
WIR03628	W802-100	08 Gauge 100 ft Spool,Red	1 Spool
WIR03631	W805-100	08 Gauge 100 ft Spool,White	1 Spool
WIR03637	W121-100	12 Gauge 100 ft Spool,Black	1 Spool
WIR03638	W122-100	12 Gauge 100 ft Spool,Red	1 Spool
WIR03639	W123-100	12 Gauge 100 ft Spool,Green	1 Spool
WIR03640	W124-100	12 Gauge 100 ft Spool,Blue	1 Spool
WIR03641	W125-100	12 Gauge 100 ft Spool,White	1 Spool
WIR03642	W141-100	14 Gauge 100 ft Spool,Black	1 Spool
WIR03643	W142-100	14 Gauge 100 ft Spool,Red	1 Spool
WIR03644	W143-100	14 Gauge 100 ft Spool,Green	1 Spool
WIR03645	W144-100	14 Gauge 100 ft Spool,Blue	1 Spool
WIR03646	W145-100	14 Gauge 100 ft Spool,White	1 Spool

Thermostat Wire

DiversiTech-Stranded Copper THHN Wire

Clear Dispenser Pack



UL, 600 V, 90°C Stranded THHN wire. 19 strand copper. Part numbers in parentheses.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
WIR03587	W141	14 Gauge 20 ft THHN Wire in Clear Dispenser Pack,Black	1 Roll
WIR03588	W801	08 Gauge 10 ft THHN Wire in Clear Dispenser Pack,Black	1 Roll
WIR03589	W802	08 Gauge 10 ft THHN Wire in Clear Dispenser Pack,Red	1 Roll
WIR03590	W803	08 Gauge 10 ft THHN Wire in Clear Dispenser Pack,Green	1 Roll
WIR03592	W805	08 Gauge 10 ft THHN Wire in Clear Dispenser Pack,White	1 Roll
WIR03593	W101	10 Gauge 10 ft THHN Wire in Clear Dispenser Pack,Black	1 Roll
WIR03594	W102	10 Gauge 10 ft THHN Wire in Clear Dispenser Pack,Red	1 Roll
WIR03595	W103	10 Gauge 10 ft THHN Wire in Clear Dispenser Pack,Green	1 Roll
WIR03596	W104	10 Gauge 10 ft THHN Wire in Clear Dispenser Pack,Blue	1 Roll
WIR03597	W105	10 Gauge 10 ft THHN Wire in Clear Dispenser Pack,White	1 Roll
WIR03598	W121	12 Gauge 15 ft THHN Wire in Clear Dispenser Pack,Black	1 Roll
WIR03599	W122	12 Gauge 15 ft THHN Wire in Clear Dispenser Pack,Red	1 Roll
WIR03600	W123	12 Gauge 15 ft THHN Wire in Clear Dispenser Pack,Green	1 Roll
WIR03601	W124	12 Gauge 15 ft THHN Wire in Clear Dispenser Pack,Blue	1 Roll
WIR03602	W125	12 Gauge 15 ft THHN Wire in Clear Dispenser Pack,White	1 Roll

Thermostat Wire by Baron

18 AWG STR BC Shielded



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	WT/1000	Std Pkg	Shield
WIR03964	95214-05-09	18/2 STRANDED SHIELDED CMR/CL3R FT4 CABLE	20	1 x 500'	Alum/Mylar
WIR04019	95218-05-09	18/3 STRANDED SHIELDED CMR/CL3R FT4 CABLE	26	1 x 500'	Alum/Mylar

18 AWG STR BC Shielded Plenum

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	WT/1000	Std Pkg	Shield
WIR03963	75902-05-23	18/2 STRANDED SHIELDED CL3P/CMP FT6 PLENUM CABLE	20	1 x 500'	Alum/Mylar
WIR04014	75903-05-23	18/3 STRANDED SHIELDED CL3P/CMP FT6 PLENUM CABLE	28	1 x 500'	Alum/Mylar
WIR04015	75904-05-23	18/4 STRANDED SHIELDED CL3P/CMP FT6 PLENUM CABLE	37	1 x 500'	Alum/Mylar
WIR04016	75905-05-23	18/5 STRANDED SHIELDED CL3P/CMP FT6 PLENUM CABLE	45	1 x 500'	Alum/Mylar
WIR04017	75906-05-23	18/6 STRANDED SHIELDED CL3P/CMP FT6 PLENUM CABLE	47	1 x 500'	Alum/Mylar
WIR04018	75908-05-23	18/8 STRANDED SHIELDED CL3P/CMP FT6 PLENUM CABLE	60	1 x 500'	Alum/Mylar

# HVAC Supplies and Accessories

## Thermostat Wire by Baron

Baro-Paks—18 ga.

250' coils, 18 AWG UL CL2, CUL CM OR CMH/FT1

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
WIR03771	55304-54-07, 55304T407	18/4
WIR03772	55305-54-07, 55305T407	18/5
WIR03773	55306-54-07, 55306T407	18/6
WIR03776	55307-54-07, 55307T407	18/7
WIR03774	55308-54-07, 55308T407	18/8
WIR03777	55309-54-07, 55309T407	18/9
WIR03775	55310-54-07, 55310T407	18/10
WIR03778	55312-54-07, 55312T407	18/12

500' coils, 18 AWG UL CL2, CUL CM OR CMH/FT1



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
WIR03769	55302-55-07, 55302T507	18/2
WIR03770	55303-55-07, 55303T507	18/3

Baro-Paks—20 ga.

250' coils, 20 AWG UL CL2, CUL CM OR CMH/FT1

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
WIR03781	55204-54-07, 55204T407	20/4
WIR03782	55205-54-07, 55205T407	20/5
WIR03783	55206-54-07, 55206T407	20/6
WIR03784	55207-54-07, 55207T407	20/7
WIR03785	55208-54-07, 55208T407	20/8
WIR03786	55209-54-07, 55209T407	20/9
WIR03787	55210-54-07, 55210T407	20/10

500' coils, 20 AWG UL CL2, CUL CM OR CMH/FT1

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
WIR03779	55202-55-07, 55202T507	20/2
WIR03780	55203-55-07, 55203T507	20/3

## Thermostat Wire by Baron

### Ground Fault Circuit Interrupters

In-Line Tri-Source®

Provide personal protection from ground faults and open neutral conditions anywhere electrical equipment is used. Protection for the job site, plant floor or workshop. Each product is UL Listed and meets OSHA specifications.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	Wire				
			GA/Cond	Type	125V Rating	Std Pkg	Pkg Wt
TOL02042	02841-00-02	120 V/1800 W	3-Dec	SJEOW	15A	6	8

## Thermostat Wire by Baron

### Plenum Rated Wire

250 foot spools, 18 AWG ETL CMP/MPP/CL2P, CUL CMP/FT6

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
WIR02598	30188P0000	18/8 ETL



**Thermostat Wire by Baron**

**Plenum Rated Wire**

250' spools, 18 AWG UL CMP/MPP/CL2P, CUL CMP/FT6

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
WIR02595	30184P0000	18/4
WIR02596	30185P0000	18/5
WIR02597	30186P0000	18/6

500' spools, 18 AWG UL CMP/MPP/CL2P, CUL CMP/FT6

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
WIR02593	30182P0000	18/2
WIR02594	30183P0000	18/3

**Thermostat wire on reels—18 ga.**

250' spools, 18 AWG UL CL2, CUL CM OR CMH/FT1

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
WIR02575	55304-04-07, 3001840000	18/4
WIR02576	55305-04-07, 3001850000	18/5
WIR02577	55306-04-07,30018600 00	18/6
WIR02578	55307-04-07,55307-04- 07	18/7
WIR02579	55308-04-07,30018800 00	18/8
WIR02580	55309-04-07,55309-04- 07	18/9
WIR02581	55310-04-07,30181000 00	18/10
WIR02582	55312-04-07,55312-04- 07	18/12

500' spools, 18 AWG UL CL2, CUL CM OR CMH/FT1



UL listed. 18-gauge plenum wire. 18-gauge and 20-gauge thermostat wire. Metal spools. Sunlight resistant.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
WIR02573	55302-05-07,30018200 00	18/2
WIR02574	55303-05-07,30018300 00	18/3

**Thermostat wire on reels—20 ga.**

250' spools, 20 AWG UL CL2, CUL CM OR CMH/FT1

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
WIR02585	55204-04-07, 55204-04-07	20/4
WIR02586	55205-04-07, 55205-04-07	20/5
WIR02587	55206-04-07, 55206-04-07	20/6
WIR02588	55207-04-07, 55207-04-07	20/7
WIR02589	55208-04-07, 55208-04-07	20/8
WIR02590	55209-04-07, 55209-04-07	20/9
WIR02591	55210-04-07, 55210-04-07	20/10

# HVAC Supplies and Accessories

## Thermostat Wire by Baron

Thermostat wire on reels—20 ga.

500' spools, 20 AWG UL CL2, CUL CM OR CMH/FT1



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
WIR02583	55202-05-07,55202-05-07	20/2
WIR02584	55203-05-07,55203-05-07	20/3

## DiversiTech

### Telescopic Inspection Mirror – American Made



Fast, accurate visual inspection of hidden areas with an almost limitless number of positions. Double ball joint links swivel mirrors for viewing to 360°. Precision engineered links are made from tempered spring steel to withstand the stresses of constant repositioning. Moves freely, holds desired position.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
TOL01775	M-1R	Replacement Head for M-1	1
TOL01776	M-2R	Replacement Head for M-2	1
TOL01777	M-3R	Replacement Head for M-3	1
TOL01768	M-1	1-1/4" Circular – extends 6-1/4" to 18-1/4"	12
TOL01769	M-2	2-1/4" Circular – extends 10" to 14"	12
TOL01770	M-3	2-1/8" x 3-1/2" Rectangular – extends 11-1/4" to 15-1/4"	12
TOL01771	M-4	7/8" Circular – extends 6-1/2"	12
TOL01772	M-5	1" x 2" Oval – extends 8-1/2"	12

## Terminal Connector

### Compartmented Storage Boxes



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
BOX01562	MB21	21 Compartmented Metal Box	1

### Transparent Plastic Boxes



Boxes are made of soft, pliable, durable K-resin with 18 compartments containing the most popular terminals, including hi-temp and compressor terminals.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
BOX01556	PA18	"K" Resin Plastic Box Only	1

## Terminals, Connectors

### Compartmented Storage Boxes



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
KIT09569	MB22	21 Compartmented Metal Box w/230 of the most popular items including hi-temp and compressor terminals, nylon ties and clamps	1

**DiversiTech**

**Terminals, Connectors**

**Transparent Plastic Boxes**



Boxes are made of soft, pliable, durable K-resin with 18 compartments containing the most popular terminals, including hi-temp and compressor terminals.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
KIT09568	PA25	450 Terminals (25 Each Kind)	1
TER01155	PA10	180 Terminals (10 Each Kind)	1

**Butt Connectors – Insulated**



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
CON01127	B211	Butt Connector 22-18 W	18
CON01128	B211C	Butt Connector 22-18 W	100
CON01129	B222	Butt Connector 16-14 W	18
CON01130	B222C	Butt Connector 16-14 W	100
CON01131	B233	Butt Connector 12-10 W	11
CON01132	B233C	Butt Connector 12-10 W	100
CON01133	BA22	Butt Connectors Assorted	16

**Compressor Terminals**



The only terminals recommended for the wiring of compressors. Made from a phosphorous bronze material to allow for a very tight grip while allowing full current flow.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
TER01088	CC32	Compressor Terminals .250	6
TER01089	CC32C	Compressor Terminals .250	100

**Disconnects – Insulated**



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
CON01165	DA22	Assorted Female Disconnects	18
CON01143	D210	Female Disconnect 22-18 W. 0.110 (1/8")	16
CON01145	D211	Female Disconnect 22-18 W. 0.187 (3/16")	16
CON01146	D211C	Female Dis29p4.928connect 22-18 W. 0.187 (3/16")	100
CON01147	D212	Female Disconnect 22-18 W. 0.250 (1/4")	16
CON01148	D212C	Female Disconnect 22-18 W. 0.250 (1/4")	100
CON01150	D220C	Female Disconnect 16-14 W. 0.110 (1/8")	100
CON01049	D221	Female Disconnect 16-14 W. 0.187 (3/16")	16
CON01051	D221C	Female Disconnect 16-14 W. 0.187 (3/16")	100
CON01052	D222	Female Disconnect 16-14 W. 0.250 (1/4")	16
CON01053	D222C	Female Disconnect 16-14 W. 0.250 (1/4")	100
CON01151	D232	Female Disconnect 12-10 W. 0.250	12
CON01152	D232C	Female Disconnect 12-10 W. 0.250	100
CON01154	D233C	Female Disconnect 12-10 W 0.375 (3/8")	100
CON01158	DM12C	Male Disconnect 22-18 W. 0.250	100
CON01160	DM21C	Male Disconnect 16-14 W. 0.187	100
CON01161	DM22	Male Disconnect 16-14 W. 0.250	16
CON01162	DM22C	Male Disconnect 16-14 W. 0.250	100
CON01163	DM32	Male Disconnect 12-10 W. 0.250	12
CON01164	DM32C	Male Disconnect 12-10 W. 0.250	100

**Disconnects – Not Insulated**



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
TER01274	D010	Female Disconnect 22-18 W. 0.110 (1/8")	30
TER01275	D011	Female Disconnect 22-18 W. 0.187 (3/16")	30
TER01280	D022	Female Disconnect 16-14 W. 0.250	30

**HVAC Supplies and Accessories**

# HVAC Supplies and Accessories

## DiversiTech

### Terminals, Connectors

#### Flag Disconnects



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
TER01292	FD21	Flag Disconnect 16-14 W. .187	25
TER01293	FD22	Flag Disconnect 16-14 W. .250	25
TER01294	FD22C	Flag Disconnect 16-14 W. .250	100
TER01295	FD32	Flag Disconnect 12-10 W. .250	10

#### Grommets – Vinyl (By Panel Hole Size)



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
GRM00884	GV10	5/8" Grommets	7
GRM00885	GV14	7/8" Grommets	4
GRM00879	GVA1	Assorted Grommets – Small	15
GRM00880	GVA2	Assorted Grommets – Large	5

#### Heat Shrink Tubing – Polyolefin 50% Shrink

Commercial Grade – Black



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
TUB10600	HS03	3/16" I.D. Expanded – 4" Long	8
TUB10601	HS04	1/4" I.D. Expanded – 4" Long	7
TUB10851	HSA1	Assorted 3/16, 1/4, 3/8" – 4" Long	7
TUB10852	HSA2	Assorted 1/2, 3/4, 1" – 4" Long	4

#### High Temperature Termils



DiversiTech high temperature terminals are made of nickel plated steel. The nickel plating prevents rust and provides a good electrical conductivity. They tolerate temperatures up to 900°F and withstand vibration well.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
TER01126	DH11	Female Disconnects 22-18 W. 0.187 (3/8")	20
TER01128	DH22	Female Disconnects 16-14 W. 0.250	20
TER01272	DH22C	Female Disconnects 16-14 W. 0.250	100
TER01129	DH32	Female Disconnects 12-10 W. 0.250	13
TER01273	DH32C	Female Disconnects 12-10 W. 0.250	100
TER01133	FH22	Flag Disconnects 16-14 W. 0.250	18
TER01134	FH32	Flag Disconnects 12-10 W. 0.250	12
TER01137	RH22	Ring 16-14 W. 10 Stud	22
TER01138	RH32	Ring 12-10 W. 10 Stud	15
TER01143	SH32	Spade 12-10 W. 10 Stud	22

#### High Temperature Wire, 400° F, 600 V.



7 strand tin coated copper wire with silicone rubber insulation protected by a braided fiberglass jacket. Use on the front of all gas furnaces with spark ignition because of flame roll-out on start up. Also on all power feeds to electric strip and duct heaters. Also used on all heat producing food preparation equipment.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
WIR04102	WHT20	14 gauge, 10 ft. black, 10 ft. white	1

**DiversiTech**

**Terminals, Connectors**

**Multi Color Test Leads**



Easy to use multi-colored test leads. 5 colors (white, red, black, yellow, green) with 2 connections each for easy testing on the job. Wire is 18 gauge, 18" long.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
LED00368	CT800	Multi Color Test Leads	1

**Replacement Compressor Leads**



Extreme heat within compressors typically causes failure of wiring insulation. This can cause corrosion to the inner strands of copper within the wire used for compressor hook-up. This reduces the power flow to the compressor causing the unit to overheat and can prevent the compressor from starting. A MINIMUM of 12" of wire must be removed. The DiversiTech Replacement Compressor Leads are ideal for replacing this corroded wiring. 24" leads also available for replacing wire all the way to the contactor and capacitor.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
LED00365	CC33	Compressor Leads – 12" w/Butt	3
LED00366	CC33-18	Compressor Leads – 18" w/Butt	3
LED00367	CC33-24	Compressor Leads – 24" w/Ring	3

**Rings – Butted Seam – Insulated**



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
TER01174	R210C	Ring 22-18 W. 6 Stud	100
TER01175	R211	Ring 22-18 W. 8 Stud	16
TER01176	R211C	Ring 22-18 W. 8 Stud	100
TER01177	R212	Ring 22-18 W. 10 Stud	16
TER01178	R212C	Ring 22-18 W. 10 Stud	100
TER01179	R213	Ring 22-18 W. 1/4 Stud	12
TER01181	R220	Ring 16-14 W. 6 Stud	16
TER01097	R221	Ring 16-14 W. 8 Stud	16
TER01098	R221C	Ring 16-14 W. 8 Stud	100
TER01099	R222	Ring 16-14 W. 10 Stud	16
TER01183	R222C	Ring 16-14 W. 10 Stud	100
TER01186	R224C	Ring 16-14 W. 5/16 Stud	100
TER01187	R230	Ring 12-10 W. 6 Stud	12
TER01100	R231	Ring 12-10 W. 8 Stud	12
TER01101	R232	Ring 12-10 W. 10 Stud	12
TER01102	R232C	Ring 12-10 W. 10 Stud	100
TER01189	R233	Ring 12-10 W. 1/4 Stud	10
TER01190	R233C	Ring 12-10 W. 1/4 Stud	100

**Spade Termils – Insulated**



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
TER01240	S210C	Spade 22-18 W. 6 Stud	100
TER01241	S211	Spade 22-18 W. 8 Stud	16
TER01167	S211C	Spade 22-18 W. 8 Stud	100
TER01242	S212	Spade 22-18 W. 10 Stud	16
TER01243	S212C	Spade 22-18 W. 10 Stud	100
TER01244	S220	Spade 16-14 W. 6 Stud	16
TER01168	S220C	Spade 16-14 W. 6 Stud	100
TER01139	S221	Spade 16-14 W. 8 Stud	16
TER01245	S221C	Spade 16-14 W. 8 Stud	100
TER01140	S222	Spade 16-14 W. 10 Stud	16
TER01246	S222C	Spade 16-14 W. 10 Stud	100
TER01169	S230C	Spade 12-10 W. 6 Stud	100
TER01248	S231	Spade 12-10 W. 8 Stud	12
TER01249	S231C	Spade 12-10 W. 8 Stud	100
TER01141	S232	Spade 12-10 W. 10 Stud	12
TER01250	S232C	Spade 12-10 W. 10 Stud	100

**HVAC Supplies and Accessories**

# HVAC Supplies and Accessories

## DiversiTech

### Terminals, Connectors

#### Special Disconnects



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
CON01229	DXF1C	Female Disconnect Full Ins. 22-18 W. .250	100
CON01230	DXF2C	Female Disconnect Full Ins. 16-14 W. .250	100
TER01300	DMM2	Double Male Insulated .250	4
TER01130	DS21	Stud Adapter #10, .250	20
TER01091	DS22	F/M Piggyback 16-14 W. .250	10
TER01299	DS22C	F/M Piggyback 16-14 W. .250	100
TER01092	DS23	F/M Piggyback .250 (Volkswagon)	20
TER01093	DS23C	F/M Piggyback .250 (Volkswagon)	100
TER01131	DS24	F/M Wire Piggyback 16-14 W. .250	5
TER01095	DSC3	F/M Piggyback .250 (Chair)	7
TER01094	DS224C	F/M Wire Piggyback Insulated 16-14 W. .250	100
TER01284	DXF1	Female Disconnect Full Ins. 22-18 W. .250	10
TER01144	DXF2	Female Disconnect Full Ins. 16-14 W. .250	10
TER01285	DXF3	Female Disconnect Full Ins. 12-10 W. .250	7
TER01096	DXF3C	Female Disconnect Full Ins. 12-10 W. .250	100
TER01286	DXM1	Male Disconnect Full Ins. 22-18 W. .250	10
TER01132	DXM2		
TER01288	DXM2C	Male Disconnect Full Ins. 16-14 W. .250	100
TER01289	DXM3	Male Disconnect Full Ins. 12-10 W. .250	7
TER01307	DXM3C	Male Disconnect Full Ins. 12-10 W. .250	100

#### Superflex Test Leads



Heavy duty copper wire with pure rubber insulation stays flexible in any temperature. Alligator clips are connected with resin core solder and crimped to the insulation. Covered by pure vinyl boots, again for flexibility at any temperature without cracking.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
LED00371	ACK4	Two Red and Two Black Boots with Four Alligator Clips	1
LED00369	FTL3	Pair, Red and Black – 36"	1
LED00370	FTL3D	Pair, Red and Black – 36" – Super Heavy Duty	1

#### Term Lok Compressor Repair Kit



Finally, a product that simplifies the repair of burned or damaged spade terminals when reconnecting or replacing a compressor. Fits both non-burned and burned terminals. Connects to the compressor via precision brass cylinders that fit over the terminals and connect with stainless steel set screws. Wires are permanently attached. Standard factory 600V, 65 strand machine wire. Easy to install and guaranteed for the life of the compressor.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
KIT07953	TLC-3-8	3 Wire, 8 Gauge Connection Kit	1
KIT07954	TLC-3-10	3 Wire, 10 Gauge Connection Kit	1
KIT07955	TLC-3-12	3 Wire, 12 Gauge Connection	1

DiversiTech

Terminals, Connectors

Upfront Stripper



Serrated plier nose for pulling and looping wire. Precision ground stripping stations for stripping 20-10 AWG wire. Features: scissors-type cutter, automatic spring return, handle lock, and air pocket cushion grips. Made in USA.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
TOL02183	450-15E	Stripper w/lock	1

Thermal Controls

Fusible Links



Fusible Links are temperature-sensitive, one time devices. Engineered as safety links, they open the circuit if the designed limit temperature is reached.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
FUS01419	HFL-4333	Fuse, In-Line Fusible Link, 333 Deg	4
LNK00409	HFL-5257	Fuse; Face Plate Type Fusible Link, Straight Prong, 257 Deg	2
FUS01421	HFL-5258	Fuse; Face Plate Type Fusible Link, Right Angle Prong, 257 Deg	2
LNK00411	HFL-5300	Fuse; Face Plate Type Fusible Link, Straight Prong, 300 Deg	2
FUS01424	HFL-5333	Fuse, Face Plate Type Fusible Link, Straight Prong, 333 Deg	2
FUS01417	HFL-4257	Fuse; In-Line Fusible Link, 257 Deg	4
FUS01418	HFL-4300	Fuse; In-Line Fusible Link, 300 Deg	4
LNK00410	HFL-5258	Linkage; Face Plate Type Fusible Link, Right Angle Prongs, 257f	2
LNK00412	HFL-5301	Linkage; Face Plate Type Fusible Link, Right Angle Prongs, 300f	2

Replacement Element Kits



Field repair damaged element sections of electric heaters. Each kit contains a specific KW replacement element, two ceramic terminal insulator sets, plated bolts, nuts and washers.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
ELM03171	HEK-400	Element; Electric Heat Element, 4000w @ 240v, 3000w @ 208v, 45 In. To 135 In.	1
ELM03172	HEK-500	Element; Electric Heat Element, 5000w @ 240v, 3750w @ 208v, 54 In. To 162 In.	1

# HVAC Supplies and Accessories

## DiversiTech

### Thermal Controls

#### Sequencers



Sequencers (Time Delay Relays) are used in electric heat systems to stage blower motors and heating elements. All are for 24V control.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
RLY02777	HDR-101	Relay, Time Delay Heat Sequencer, 24v, Spst-No, Delay On 1-24 Secm Delay Off 45-75 Sec	1
RLY02779	HDR-201	Relay, Time Delay Heat Sequencer, 24v, Dpst-No, Delay On 1-24 Sec, Delay Off 45-75 Sec	1
RLY02780	HDR-202	Relay, Time Delay Heat Sequencer, 24 V Dpst-No Delay On 30-70 Sec, Delay Off 1-40 Sec	1
RLY02782	HDR-212	Relay; Time Delay Heat Sequencer, 24v, Dpst-No, Delay On 1-25 Sec, Delay Off 50-110 Sec	1
RLY02783	HDR-221	Relay; Time Delay Heat Sequencer, 24v, Dpst-No, Spst-No, Delay On 1-25 Sec, Delay Off 50-110 Sec	1
RLY02784	HDR-222	Relay; Time Delay Heat Sequencer, 24v, 2 Dpst-No, Delay On 1-40 Sec, Delay Off 50-110 Sec	1

#### Wet Switch Flood Detector



A solid state control designed to help prevent flooding, damage to carpets, walls, furniture, ceilings, etc. Turns system off when detecting moisture due to condensate or drain leaks. One or two drops will cause Wet Switch to turn off a unit, alerting a serviceman to a moisture problem. A lit LED indicates the Wet Switch is activated and has turned the unit off. Re-set simply by drying the absorbent pad with a paper towel and momentarily interrupting the power. Connects to 24 VAC. More than one unit may be connected to a system. 2 amp contact rating. Simple 3 wire installation. Sales displays available. U.S. Patent No.4,787,212.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
SWT02467	WS-1	Wet Switch Flood Detector	1

#### Thermometers

##### CFM Master II Digital Airflow/Temperature Meter – One Piece



- One Piece instrument that can record up to 8 multi point readings
- Single Hand Air Flow Measurement
- Displays: FPM/MPH/KPH Knots/MPS/CFM
- 80 to 6900 FPM
- Multi Point and Single Point Average
- Data Hold, Min/Max
- Auto Power Off
- F and C Switchable (14°F to 122°F)
- Includes Hard Case

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
MTR00908	6-DCFM8906	CFM Airflow Meter	1

##### Deluxe Digital Pocket Thermometer



- Water and Drop Resistant, Rugged Construction
- Data Hold
- F/C Switch
- On/Off Switch
- Auto Power Off
- 2.5" Probe
- Protective Cover w/Clip
- -40°F to 300°F, -40°C to 150°C

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
THR00055	6-HDT303K	Deluxe Digital Thermometer	1



**DiversiTech**

**Thermometers**

**Digital Thermometer**



Temperature range from -40° F to 230° F. Packaged on attractive display card.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
THR00061	541-300	Digital Thermometer	1

**Leak Test Gauge – 2", 30 psi Capacity**



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
GAG00973	TG-30	3/4 FPT. Conn.	1

**Pocket Thermometers**



1" diameter dials with 5" stems (.145 dia.). Adjustable for recalibration. All stainless steel construction. Polycarbonate crystal. 1% accuracy full scale. Plastic pocket sheath included. Carded.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
THR00056	TD-1	Thermometer 0 +220°F	12
THR00060	TD-2	Thermometer -40 +160°F	12

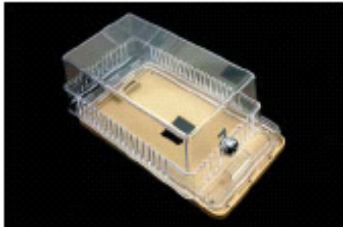
**Superheat Thermometer w/2 Probes and Hard Case**



- Single "K" Type Thermocouple Input
- 2 "K" Type Probes
- C and F Readings
- T1, T2, or T1-T2 Readings
- -58°F to 2000°F
- MAX Reading Memory
- Low Battery Indicator (Battery Included)
- Auto Power Off
- Includes Hard Case

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
THR00064	6-DT8803	Superheat Thermometer	1

**Thermostat Guards**



DiversiTech offers a full line of industry-standard Thermostat Guards. Each guard is manufactured to precise tolerances. Available in both clear plastic as well as a heavy-duty steel design.

- The perfect guard for most applications
- Clear plastic
- Ring Base and Solid Base included
- T-Stat Clearance 8-1/4" x 4-1/2" x 3-1/4"

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
GRD01449	585-TG	Clear Plastic w/Two Bases	1



DiversiTech offers a full line of industry-standard Thermostat Guards. Each guard is manufactured to precise tolerances. Available in both clear plastic as well as a heavy-duty steel design.

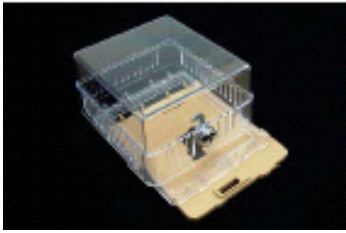
- The perfect guard for standard size wall T-Stats
- Clear plastic
- Ring Base and Solid Base included
- T-Stat Clearance 5-3/4" x 3-1/2" x 2-3/4"

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
GRD01450	585-TG1	Clear Plastic w/Two Bases	1

# HVAC Supplies and Accessories

## DiversiTech

### Thermostat Guards



DiversiTech offers a full line of industry-standard Thermostat Guards. Each guard is manufactured to precise tolerances. Available in both clear plastic as well as a heavy-duty steel design.

- Medium in size
- Clear plastic
- Ring Base and Solid Base included
- T-Stat Clearance 4-3/4" x 4-1/4" x 2-3/4"

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
GRD01451	585-TG2	Clear Plastic w/Two Bases	1



DiversiTech offers a full line of industry-standard Thermostat Guards. Each guard is manufactured to precise tolerances. Available in both clear plastic as well as a heavy-duty steel design.

- Our most versatile guard in a solid steel construction
- Beige Steel
- Solid Base included
- T-Stat Clearance 6" x 4" x 3"

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
GRD01452	585-TG3	Beige Steel w/Solid Base	1



DiversiTech offers a full line of industry-standard Thermostat Guards. Each guard is manufactured to precise tolerances. Available in both clear plastic as well as a heavy-duty steel design.

- Our most versatile guard in a solid steel construction
- Beige Steel
- Ring Base included
- T-Stat Clearance 6" x 4" x 3"

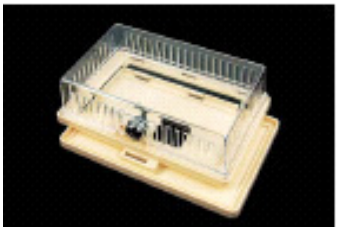
SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
GRD01453	585-TG4	Beige Steel w/Ring Base	1



DiversiTech offers a full line of industry-standard Thermostat Guards. Each guard is manufactured to precise tolerances. Available in both clear plastic as well as a heavy-duty steel design.

- Compact design
- Ideal for pneumatic T-Stats as well as small T-Stats
- Solid Base included
- T-Stat Clearance 3-1/2" x 3-1/4" x 2-1/4"

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
GRD01454	585-TG5	Clear Plastic w/Solid Base	1



DiversiTech offers a full line of industry-standard Thermostat Guards. Each guard is manufactured to precise tolerances. Available in both clear plastic as well as a heavy-duty steel design.

- Low Profile design
- Clear plastic
- Engineered for electronic thermostats
- Ring Base and Solid Base included
- T-Stat Clearance 6-1/4" x 3-3/4" x 1-3/4"

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
GRD01455	585-TG6	Clear Plastic w/Two Bases	1



DiversiTech offers a full line of industry-standard Thermostat Guards. Each guard is manufactured to precise tolerances. Available in both clear plastic as well as a heavy-duty steel design.

- Our most versatile guard in solid steel
- Beige Steel
- Solid Base included
- T-Stat Clearance 5-1/2" x 3-1/2" x 2-3/4"

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
GRD01456	585-TG7	Steel Guard w/Solid Base	1



DiversiTech offers a full line of industry-standard Thermostat Guards. Each guard is manufactured to precise tolerances. Available in both clear plastic as well as a heavy-duty steel design.

- The most secure guard in our line
- Constructed of 20 gauge steel
- Extremely strong and tamper proof
- Hinged, Ring Base included
- T-Stat Clearance 5" x 3" x 2-3/4"

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
GRD01457	585-TG8	Steel Guard w/Ring Base	1

DiversiTech  
Thermostat Wire

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
WIR04257	620-18-2	18 AWG, 2 Conductors – 500 ft. Spool	4 Rolls
WIR03654	620-18-3	18 AWG, 3 Conductors – 500 ft. Spool	4 Rolls
WIR04258	620-18-4	18 AWG, 4 Conductors – 250 ft. Spool	4 Rolls
WIR04259	620-18-5	18 AWG, 5 Conductors – 250 ft. Spool	4 Rolls
WIR03656	620-18-6	18 AWG, 6 Conductors – 250 ft. Spool	4 Rolls
WIR04260	620-18-8	18 AWG, 8 Conductors – 250 ft. Spool	4 Rolls
WIR04261	620-18-10	18 AWG, 10 Conductors – 250 ft. Spool	4 Rolls

Time Delays/Monitors

007 Control Checker



A lifetime tool for monitoring and checking safety controls and operating controls. One unit for all voltages 24-460 VAC or DC without switching dials or meters. Compact, 4 oz, reliable. Saves troubleshooting. For normally closed controls, 007 connects in parallel with safety control. When the safety control opens in response to a problem in the system, 007 red LED turns on and remains on until reset manually. With intermittent problem, the LED remains on indicating the control is open. For operating controls, 007 verifies the status of all types indicating if there is power to the holding coil, the NC contact is open or closed, the thermostat contacts are open or closed, there is power to the contactor or starting holding coil, the overloads are open or closed, or there is a bad connection either on control or power side. NOTE: May use with lockout relays. Features battery check and reset switch. Includes 9-volt battery. 007 may be used over and over. U.S. Pat. No. 4,092,625.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
TOL01786	TC-007	007 Control Checker	1

Adjustable Delay on Break Timer



Adjusts from 6 seconds to 8 minutes. Spin-proof knob. Works with 24, 120 or 240 VAC control circuits. Supports up to 1.5 Amps. Two wire hookup for easy installation. Solid state with quick disconnect terminals. Mounts with one self-tapping screw. Conformal coated circuitry protects against moisture and shock. UR recognized for USA and Canada. Works with anticipator type thermostats. **HOW IT WORKS:** Immediately upon application of power, the Delay on Break timer enables circuit operation. Once power is interrupted, the circuit opens for the time set on the dial. After the time period elapses, the circuit closes, allowing the protected motor or compressor to start. For typical HVAC applications, the operation of the timer is transparent and will go unnoticed.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
TMR00205	ADB-1	Adjustable Delay on Break	1

Adjustable Delay on Make Timer



Ideal for random starting of multiple units. Adjusts from 6 seconds to 8 minutes. Spin proof knob. Works with 24, 120 or 240 VAC control circuits. Supports up to 1.5 Amps. Two wire hookup for easy installation. Solid state with quick-disconnect terminals. Mounts with one self-tapping screw. Conformal coated circuitry protects against moisture and shock. UR recognized for US and Canada. Works with anticipator type thermostats. **HOW IT WORKS:** These timers delay circuit closure upon application of power. Only after the set time period elapses and power remains ON will the circuit close, allowing the protected motor or compressor to start. For typical HVAC installations, timers are adjusted to random times to prevent power circuit overloads. They are sometimes called random start timers.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
TMR00207	ADM-1	Adjustable Delay on Make	1
TMR00208	ADM-2	Adjustable Delay on Make w/Terminal Leads	1

# HVAC Supplies and Accessories

## DiversiTech

### Time Delays/Monitors

#### Digital Three Phase Line Voltage Monitor



Offers continuous protection against voltage anomalies which can damage compressors, motors and other sensitive electrically operated devices.

**PROTECTION:** Loss of Phase, Phase Reversal, Voltage Imbalance, Low Voltage, High Voltage

**DISPLAY:** Large custom LCD display indicates all operating conditions at a glance. Three large sets of digits provide easy system troubleshooting.

**VOLTMETER:** Three independent voltmeters read both line and contactor load (backside) voltages.

**MONITORED VOLTAGE:** 160 to 600 Volts 50-60 Hz.

**POWER SUPPLY:** Power for the WPC-500 is automatically derived from any active phase. System operation is not dependent on the control voltage or a specific phase for power.

**CONTROL VOLTAGE:** 19-277 VAC. Anticipator load is provided for operation with 24 volt electronic and mechanical thermostats.

**OPERATING VOLTAGE SET POINT:** 175 to 650 VAC. Digitally adjustable in one volt increments.

**VOLTAGE TRIP POINT:** Adjustable in 1% increments between 6% and 18% of selected operating voltage.

Restart voltage set point (hysteresis) fixed at cutout voltage + 3%.

**VOLTAGE SYMMETRY:** Adjustable imbalance trip point from 2% to 25% of selected operating voltage.

**RESPONSE TIMES:** Phase Loss/Reversal: 100 mS max. Imbalance: Adjustable Response Timer Over or Under Voltage: Adjustable Response Timer

**LOCKOUT DELAY TIMER:** Fully adjustable 0 to 720 Seconds (0 to 12 minutes). Digital display shows remaining time and user set points.

**SEQUENTIAL START TIMER:** 0 to 30 seconds in one second increments.

**RESPONSE TIMER:** 0.1 to 20 Seconds. Digital display shows remaining time and user set points.

**MEMORY:** Up to 25 past fault conditions are stored for later retrieval and analysis. The faults may be displayed or cleared by the front panel buttons.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
MON00013	DTP-3	Digital 3-Phase Motor Protector	1

#### Tattle-Tale Control Monitor



Identifies open controls in seconds. A single use monitoring device for determining which, safety control has opened in response to a malfunction. Saves wasted hours tracing a safety control shutdown, even if intermittent.

A quick, inexpensive way to visually spot where the problem is. Simply install in parallel with each safety control. When a control opens, the red indicator flag pops up. You will know immediately which area of the system is experiencing problems. Disposable, safe, simple to use, and pocket sized. Monitors safety controls, fuses, overload relays, motor protectors, freeze controls, limit controls, safety switches, fusible links, or steam control. CAUTION: Not to be used with lockout relays, use TC-007.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
TOL01756	TT-24	24 Volt AC or DC	3
TOL01757	TT-120	120 Volt AC or DC	3
TOL01758	TT-240	240 Volt AC or DC	3

### Tools

#### Adjustable Wrenches



Drop forged of special analysis steel. Heat treated for maximum durability and proper hardness of working surfaces. Chromium plated, strong, and streamlined for maximum usefulness.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
TOL00419	545-804	4" Long 1/2" Capacity	1
TOL00420	545-806	6" Long 3/4" Capacity	1
TOL00421	545-808	8" Long 15/16" Capacity	1
TOL00422	545-810	10" Long 1-1/8" Capacity	1
TOL00423	545-812	12" Long 1-15/16" Capacity	1

#### 4-Piece Hook and Pick Set



For separating wires, removing small fuses, "O" rings, retrieving washers and loose parts too small to pick up with your fingers. Bright-dipped, anodized hex-shaped aluminum handles with powerful magnet on end. Handy screw-in hook, pick, point and scribe. High carbon polished needle steel. All in a compact zip-lock vinyl pouch that fits in your shirt pocket! Set includes four screw-in tips plus handle.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
TOL01780	MHP-4	4-Piece Hook and Pick Set	1

**DiversiTech**

**Tools**

**Allen Wrenches**



The finest quality wrenches available anywhere.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
TOL01989	AWL-5	5-1/4" handle, 5 bits, Long Arm Fold-Ups 3/16", 7/32", 1/4", 5/16", 3/8"	1
TOL01987	AW-8	3" handle, 8 bits, Standard Fold-Ups .050", 1/16", 5/64", 3/32", 7/64", 1/8", 9/64", 5/32"	1
TOL01988	AW-9	4" handle, 9 bits, Standard Fold-Ups 5/64", 3/32", 7/64", 1/8", 9/64", 5/32", 3/16", 7/32", 1/4"	1
TOL01990	AWL-9	6-1/4" handle, 9 bits, Long Arm Fold-Ups 5/64", 3/32", 7/64", 1/8", 9/64", 5/32", 3/16", 7/32", 1/4"	1

**Allen Duracast™ Fold Ups**



Featuring unique "double foldout" design. This convenient pocket wrench set opens from both the top and bottom, for fast, easy access to each and every bit. Instead of unfolding the top wrenches to get at the wrenches underneath, all you do is turn the FOLD UP over. Specially contoured handle, so you'll never cut your hands or snag your clothing.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
TOL01982	AWZ-3000	4-1/4" handle, 9 bits 5/64", 3/32", 7/64", 1/8", 9/64", 5/32", 3/16", 7/32", 1/4"	1

**Allen Wrenches – Long Arm**



Most needed combination of Allen Wrenches packaged in clearly marked vinyl pouches.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
TOL01970	AW-96	9 Keys, 6" long arm series: 5/64", 3/32", 1/8", 5/32", 3/16", 7/32", 1/4", 5/16", 3/8"	1
TOL01971	AW-712	7 Keys, 12" long arm series: 5/64", 3/32", 1/8", 5/32", 3/16", 7/32", 1/4"	1

**Tools**

**Fast Orange Hand Cleaner**



Three out of five people prefer Fast Orange over other hand cleaners. The first biodegradable, waterless hand cleaner with aloe, lanolin, and jojoba. Smooth lotion and extra-fine pumice available. USDA Approved.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
CHM00526	HCO-15	15 oz. Smooth Squeeze Bottle	12
CHM00196	HCP-15	15 oz. Pumice Squeeze Bottle	1
SOV00031	HCP-3	3 oz. Pumice Squeeze Tube	1
SOV00048	HCP-64	1/2 gal. Pumice w/Dispenser	6
SOV00047	HCP-128	1 gal. Pumice w/Dispenser	4
SOV00054	HCO-64	1/2 gal. Smooth w/Dispenser	6
SOV00030	HCO-128	1 gal. Smooth w/Dispenser	4

# HVAC Supplies and Accessories

## DiversiTech

### Tools

#### Hose Clamps



Partial stainless, worm drive, adjustable. 300 series stainless steel 1/2" band with plated 5/16" slotted hex head screw and housing. Recommended for most applications. 100% interlock construction features one-piece housing which directly locks into the band. Spot weld free design.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
CMP00997	B-4H	No. 4, 7/32" – 5/8" diameter, 3/16" – 5/16" hose I.D.	10
CMP00998	B-6H	No. 6, 3/8" – 7/8" diameter, 1/4" – 3/8" hose I.D.	10
CMP00999	B-8H	No. 8, 7/16" – 1" diameter, 5/16" – 1/2" hose I.D.	10
CMP01000	B-10H	No. 10, 9/16" – 1-1/16" diameter, 3/8" – 5/8" hose I.D.	10
CMP01001	B-12H	No. 12, 9/16" – 1-1/4" diameter, 5/8" – 3/4" hose I.D.	10
CMP01002	B-16H	No. 16, 11/16" – 1-1/2" diameter, 3/4" – 1" hose I.D.	10
CMP01003	B-20H	No. 20, 3/4" – 1-3/4" diameter, 1" – 1-1/4" hose I.D.	10
CMP01004	B-24H	No. 24, 1-1/16" – 2" diameter, 1-1/4" – 1-1/2" hose I.D.	10
CMP01005	B-28H	No. 28, 1-5/16" – 2-1/4" diameter, 1-1/4" – 1-3/4" hose I.D.	10
CMP01006	B-32H	No. 32, 1-9/16" – 2-1/2" diameter, 1-1/2" – 2" hose I.D.	10
CMP01007	B-36H	No. 36, 1-13/16" – 2-3/4" diameter, 1-3/4" – 2-1/4" hose I.D.	10

#### Insulated Wiring Tacker



The exclusive design of the Arrow T59 Staple Gun and #5911 Series Insulated Staple allows safe and secure installation of all types of wiring from 1/4" to 5/16" in diameter. The #5911 Series Insulated Staple with its special coating increases holding power by over 3 times.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
TOL01576	540-T59	T59 Insulated Wiring Tacker	1
FAS00025	540-591168	#5911 Insulated Staples – 6mm (300/PK)	1

#### Magnetic Retrieving Tool



Extra high flux magnet for greater pickup. Super adjustable telescoping action. Bright chrome plated brass handle. This magnet is powerful and it will outperform the standard Alinco V Magnet 4 to 1. With the adjustable telescoping handle, you can pick up ferrous objects where your hand cannot reach. When closed, it fits neatly in your pocket for easy accessibility on every job.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
TOL02209	540-601	Tool – Pocket Telescopic extends from 5-7/8" to 25-9/16" (Carded)	12

#### Mechanical Screw Starter



A simple, easy way to end fumbling with hard to position screws. Just insert the screw on the prongs of the screw starter, and a simple twist will lock the screw ready for trouble free starting. Tool automatically releases and resets. Use with ferrous or non-ferrous screws. Nylon handle.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
TOL01986	S-3	One End Slotted, Phillips on Other, 9-1/4"	1

**DiversiTech**

**Tools**

**Nut Setter – Power**



Magnetic hex drive nut setter to be used with any 1/4" power bit. Individually packed.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
TOL01578	5-MSH1/4MC	Hex Drive 1/4", 1-3/4" long, 1/4" nut	30/Box
TOL01579	5-MSH5/16MC	Hex Drive 1/4", 1-3/4" long, 5/16" nut	30/Box

**Nut Setters – Bulk**



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
TOL01581	540-400	1/4"	30
TOL01580	540-500	5/16"	30

**Screwdrivers**



Channellock screwdrivers have precision ground hardened blades.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
TOL00425	545-P14	#1 Phillips 5/32" Dia. 4" Blade (7-1/4" Overall)	5
TOL00426	545-P24	#2 Phillips 7/32" Dia. 4" Blade (8" Overall)	5
TOL00427	545-P36	#3 Phillips 5/16" Dia. 6" Blade (10" Overall)	5
TOL00428	545-52	5/32" Dia. 2" Blade (4" Overall)	5
TOL00429	545-54	5/32" Dia. 4" Blade (7-1/4" Overall)	5
TOL00430	545-74	7/32" Dia. 4" Blade (8" Overall)	5
TOL00431	545-106	5/16" Dia. 6" Blade (10" Overall)	5

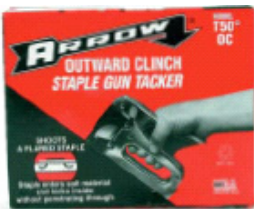
**Self Tapping Water Tap Valve**



Installs on all copper tube lines from 3/8" O.D. to 1-1/8" O.D. Installs without shutting off water. No drilling required. Features 1/4" compression fitting. Stainless steel piercing needle. Special molded gasket seals on both tubing and valve. Will not slip or turn on tubing.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
VAL08246	QAV-2	Self Tapping Water Tap Valve	1

**T-50 Series Staples and Staple Guns**



The #1 selling staple gun in the world! Used extensively by building contractors, home do-it-yourselfers and specialty trade applications for tacking insulation, ceiling tile, window screening, cornerite, and 1001 other jobs ranging from light to heavy duty work. The T-50 Outward Clinch Staple Gun is ideal for fiberglass ductwork.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
FAS00020	540-506	3/8" Leg Staples for T50 Staple Guns (1250/PK)	4
FAS00021	540-508	1/2" Leg Staples for T50 Staple Guns (1250/PK)	4
FAS00022	540-509	9/16" Leg Staples for T50 Staple Guns (1250/PK)	4
TOL01574	540-T50MOC	T50MOC Outward Clinch Staple Gun	1

**HVAC Supplies and Accessories**

# HVAC Supplies and Accessories

## DiversiTech

### Plier Staple Gun



The Arrow P35S Plier Staple Gun is made of an all steel construction. Has hand guide loop and spear pointed anvil arm for penetrating and sealing from within.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
TOL01575	540-P35S	Plier Staple Gun	1

## Tools

### Toggle Switches



Single pole-double pole - A.C. Underwriters' Listed CSAAPP.No.10016. All DiversiTech Toggle Switches furnished with screw terminals.

Rating A:20A - 125VAC, 20A - 250VAC, 1 H.P. at 120-240V Rating B:15A - 125/250VAC, 3/4 H.P. at 240V

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK	RATING
SWT02577	TS-1	SP-ST	1	A

### Tongue and Groove Pliers



Patented design, permalock fasteners and reinforcing edge. Dipped plastic comfort grips.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
TOL02202	545-420	9-1/2" Tongue and Groove Pliers	1
TOL02184	545-422	9-1/2" Curved Jaw Tongue and Groove Pliers	1
TOL02178	545-424	4-1/2" Tongue and Groove Pliers	1
TOL02185	545-426	6-1/2" Tongue and Groove Pliers	1
TOL02186	545-430	10" Tongue and Groove Pliers	1
TOL02187	545-440	12" Tongue and Groove Pliers	1
TOL02253	545-442	12" Curved Jaw Tongue and Groove Pliers	1
TOL02188	545-460	16" Tongue and Groove Pliers	1

### Tool Bags

#### BigMouth™ Bag



Internal metal frame holds bag wide open for easy access to tools and supplies. Reinforced interior bottom panel enables the BigMouth bag to keep its wide profile. Padded sides and bottom. Built of super tough, super light fabric.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
TOL01639	5-1135	BigMouth™ Bag	1

#### Bucket Pockets™ Tool Bag



Turns a standard 5 gallon bucket into a super carrier/organizer for your most needed tools and accessories. 48 pocket design features 14 double row pockets inside and 34 triple row pockets outside. Built of super tough, super light fabric for extra durability. ToolWorks Plus Bucket Pockets bag made with super-rugged Anso-tex nylon and features a total of 65 inside and outside multi-size pockets.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
TOL01640	5-1119	Bucket Pockets™ Tool Bag	1



DiversiTech

Tools

Tool Bags

Double Zipper Rigger's Bag



Rugged, lightweight soft-sided tote/organizer for tools and business accessories. Features double pull top zipper for easy access, reinforced bottom panel to keep bag's wide profile, and padded carrying handle. Total of 50 multi-use pockets!

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
TOL01638	5-1115	Double Zipper Rigger's Bag	1

Tool Bags

Tool Pouches



The finest quality top-grain leather tool bags available. Made in the USA. Top quality hardware for strength and durability while resisting rust plus double stitched construction for long life.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
TOL01636	535-E450-1	1-3/4" Embossed Leather Work Belt (Waist Sizes 29"-46")	1

Transformers

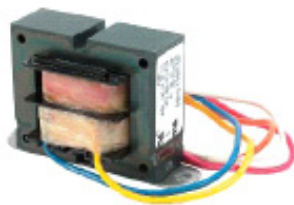
Transformers – Class 2 1585 UL Recognized



Multi-mount with terminal connection secondary.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
TRR01885	T3401	Transformer; 40va, 120 Pri, 24 Sec, Multi Mount
TRR01887	T3403	Transformer; 40va, 120/208/240 Pri, 24 Sec, Multi Mount
TRR01888	T3501	Transformer; 50va, 120/208/240 Pri, 24 Sec, Multi Mount
TRR01815	T5404	Transformer; 40va, 120/208/240 Pri, 24/12/2.5 Sec
TRR01783	T6753	Transformer; Heavy Duty With External Fuse, 75 Va, 120/208/240/480 Pri, 24 Sec
TRR01785	T7752	Transformer; Heavy Duty With Circuit Breaker, 75 Va, 120/208/240/480 Pri, 24 Sec

Transformers – Class 2 1585 UL Recognized – Open Enclosure



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	VA	PRI	SEC
TRR01861	T2401	Transformer; 40va, 120v Pri, 24v Sec, Class 2 1585 UI Recognized, Foot Mount	40	120	24
TRR01864	T2404	Transformer; 40va, 120/208/240v Pri, 24v Sec, Class 2 1585 UI Recognized, Foot Mount	40	120/208/240	24

# HVAC Supplies and Accessories

## DiversiTech

### Tube and Hose Cutters

#### Big Helper™ PVC Pipe Cutter



Ratchet style pipe cutters cut up to 2-1/2" Sch. 40 PVC Pipe. Ratchet action requires minimal pressure to easily cut through PVC pipe. Molybdenum stainless steel blade won't rust or break and lasts twice as long as most competitor's. The new Mega-Cutter is now available - the strongest pipe cutter on the market today!

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
TOL01611	548-003	1" O.D. Cutting Capacity	1
TOL01612	548-005	1-1/4" O.D. Cutting Capacity	1
TOL01613	548-009	1-5/8" O.D. Cutting Capacity	1

#### Bi-Metal Reciprocating Saw Blades



Premium high speed steel with a flexible alloy back. Bi-metal blades fit all reciprocating saws with 1/2" shank.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
BLD01001	540-RB610HDM	6" x 10T HD Metal Cutting 3/4" x 6" x .035	5
BLD00997	540-RB125W	12" x 6T Wood and Nail 3/4" x 12" x .050	5
BLD00999	540-RB418M	4" x 18T Short Metal Cutting 5/8" x 4" x .035	5
BLD01002	540-RB614HDM	6" x 14T HD Metal Cutting 3/4" x 6" x .035	5
BLD01003	540-RB618HDM	6" x 18T HD Metal Cutting 3/4" x 6" x .035	5
BLD00995	540-RB656WS	6" x 6T Wood and Nail Scroll 3/4" x 6" x .050	5
BLD00994	540-RB636W	6" x 6T Wood and Nail Slope 3/4" x 6" x .050	5
BLD01006	540-RB814HDM	8" x 14T HD Metal Cutting 3/4" x 8" x .035	5
BLD00996	540-RB956W	9" x 6T Wood and Nail 3/4" x 9" x .050	5
BLD01005	540-RB810HDM	8" x 10T HD Metal Cutting 3/4" x 8" x .035	5

#### Clipboards and Form Holders



Rugged aluminum construction to protect your paperwork and forms. Smooth aluminum surfaces provide excellent writing support.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
TOL01624	30305	Aluminum Clipboard – Holds 9-1/2" x 12" Forms	1
TOL01625	30306	SNAPAK Clipboard on Box w/Hinged Back – 8-1/2" x 12"	1
TOL01628	30309	REDI-RITE Clipboard on Box – 8-1/2" x 12"	1
TOL01629	30310	CRUISER MATE 2 Compartment Clipboard – 8-1/2" x 12"	1
TOL01630	30311	SNAPAK Clipboard on Box w/Hinged Back and Calculator – 8-1/2" x 12"	1

#### Deluxe Hi-Tension Hacksaw



Hackframe featuring handle and end pieces made of die cast aluminum. Lightweight yet rigid and highly tensioned (up to 25,000 psi) for cleaner, surer cut. Permanent blade pins feature versatile angling (up to 55°) for flush cutting. Blade can be inserted in handle to be used as compass saw. Frame will fit most standard tool

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
TOL01617	540-278HX0002	Hacksaw Frame with Blade	1

DiversiTech

Tube and Hose Cutters

Kut-All Plastic Tube and Hose Cutter



Tough, durable nylon. Blade closes into its own handle for safe handling. Replaceable high carbon, Teflon coated steel blades. Ideal for cutting up to 1-1/8" I.D. plastic tubing, reinforced plastic tubing, rigid plastic pipe, and rubber hose.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
BLD00987	PK-2B	Replacement Blades	1
TOL01609	PK-2	Kut-All Plastic Tube and Hose Cutter	1

Little Helper™ – All Purpose Cutter



Cuts up to 1-1/4" polyethylene, thinwall PVC, ABS, rubber hose, NM conduit and clear vinyl tubing. Reversible stainless steel blade, like two blades in one. Sturdy all metal construction.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
BLD00988	548-002	Replacement Blades	1
TOL01610	548-001	Little Helper (Carded)	1

Power Measuring Tapes



Rust resistant yellow lacquered blade with easy to read inch/foot markings (English). Both chrome and neon case have belt clips and finger-tip blade lock. Ultralife tape is our highest quality tape measure - lasts up to 10X longer than typical blades, with patented "blade wiper" that cleans the blade as you measure.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
TOL01618	540-12	Power Tape – Chrome 1/2" x 12'	6
TOL01620	540-25	Power Tape – Chrome 1" x 25'	6
TOL01621	540-25R	Power Tape – Neon Orange 1" x 25'	6
TOL01623	540-25UL	Power Tape – Ultralife 1" x 25' w/Yellow Case	6

Ratch-Cut® Tube Cutters



Ratcheting action on these rugged, professional tube cutters permits easy cuts in tight, hard-to-reach spaces where ordinary tube cutters cannot operate. Cuts copper, stainless, aluminum and PVC tubing.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
TOL01615	31700	RC-375 Small Ratch-Cut – cuts 1/8 - 3/8" dia.	1
WHL02228	31701	Replacement cutting wheels (poly bag) for 31700	12
TOL01616	31710	RC-1125 Large Ratch-Cut – cuts 5/16 - 1-1/8" dia.	1
WHL02229	31711	Replacement cutting wheels (poly bag) for 31710	12

# HVAC Supplies and Accessories

## DiversiTech

### Tubing Insulation



Aerocel tubing insulation is a flexible, closed cell, lightweight EPDM based material. The closed cell structure provides many advantages over most rigid insulations, with outstanding ultraviolet and weather resistance.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
INS02723	7-121-18	1-1/8" ID x 1/2" Wall
INS02724	7-121-38	1-3/8" ID x 1/2" Wall
INS02725	7-121-58	1-5/8" ID x 1/2" Wall
INS02726	7-122-18	2-1/8" ID x 1/2" Wall
INS02727	7-122-58	2-5/8" ID x 1/2" Wall
INS02721	7-1234	3/4" ID x 1/2" Wall
INS02720	7-1258	5/8" ID x 1/2" Wall
INS02722	7-1278	7/8" ID x 1/2" Wall
INS02734	7-341-18	1-1/8" ID x 3/4" Wall
INS02736	7-341-58	1-5/8" ID x 3/4" Wall
INS02737	7-342-18	2-1/8" ID x 3/4" Wall
INS02712	7-381-18	1-1/8" ID x 3/8" Wall
INS02713	7-381-38	1-3/8" ID x 3/8" Wall
INS02714	7-381-58	1-5/8" ID x 3/8" Wall
INS02715	7-382-18	2-1/8" ID x 3/8" Wall
INS02716	7-382-58	2-5/8" ID x 3/8" Wall

## Ventilation Products

### Booster Fans

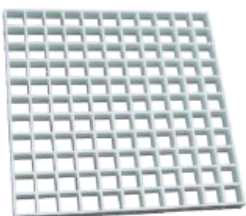


For hard to heat or cool rooms. Easily installs in branch duct (round, square, or rectangular) which supplies air to the problem room. Electrical hookup can be to a wall switch, auxiliary switch, thermostat or directly to the blower making it possible to use all the time or only at certain times. Each booster fan individually boxed.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
FAN03164	625-AF6	6" Booster Fan – 240 CFM	4
FAN03165	625-AF8	8" Booster Fan – 420 CFM	4
FAN03166	625-AF10	10" Booster Fan – 650 CFM	2
FAN03167	625-AF12	12" Booster Fan – 975 CFM	1

### Egg Crate Louvers – Air Return Diffusers

White polystyrene 1/2" open cell grid.



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
DIF00190	650-100	2' x 4' x 1/2"	10
DIF00189	650-200	2' x 4' x 3/8"	15

### Roof Flashing



Easy to install. The no-caulk flashing slips over vent stack and automatically adjusts to pipe size and roof angle. 24 gauge galvanized steel.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
CLR00836	5-11830	1/2" – 3/4" – 1"	12
CLR00838	5-11853	2"	12
CLR00839	5-11866	3"	12
CLR00840	5-11879	4"	12

**DiversiTech  
Ventilation Products  
Smokeys**



Smoke emitter cartridges provide effective, low cost leak testing of heat exchangers, air ducts, tanks and boilers. Visual air balancing of HVAC systems. Cartridges produce clean, non-toxic, oil-free smoke through chemical reaction. Use also for fire drills as well as the placement and testing of smoke alarms/detectors.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
TOL01650	14145	45 second burn time, 150 cu. ft., pkg. of 10	1
TOL01651	14175	75 second burn time, 600 cu. ft., pkg. of 10	1
TOL01652	14250	2-1/2 minute burn time, 1,100 cu. ft., pkg. of 5	1

**Versa Cap® Flue and Hot Stack Caps**



Non-clogging positive draft design, recommended for flue or hot stack installation. Clamp fitting adjustable for all standard sizes. Aluminum model. U.L. Listed.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
CAP00923	6-1200	Cap; Aluminum Flue And Hot Stack Cap, 11 7/8 Inch - 14 1/2 Inch Pipe	2

**Loctite Thread Sealant with Teflon**



General purpose sealant with the lubricity of Teflon for metal pipes. Won't shred like Teflon Tape. Allows easy disassembly. Resists common shop fluids. -60° to 400°F temp. resistance. Pressure resistance of 5000 PSI.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
SEL00911	7-80632	Loctite® Thread Sealant – 1/4 Pint Brush Can	12
SEL00912	7-80633	Loctite® Thread Sealant – 1 Pint Brush Can	12

**Washer, Dryer, Water Heater Supplies**

**Aluminum Dryer Vent Hoods, Kits, and Fittings**



Aluminum vent hood with flange plate. Kits include flexible tubing and two clamps.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
HOD00407	650-001	4" Aluminum Hood	24

**Dryer Vent Hose**



High quality flexible white vinyl tubing. Available in 3" or 4" diameters. One 50' roll per box.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
HSE01344	650-006	4" x 50' Dryer Hose	1

**Gas Ball Valve**



Gas Ball Valves meet the stringent ISO 9000 quality standard. AGA and CGA certified.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
VAL07419	92-3232	1/2" FIP x 1/2" FIP	10
VAL07420	92-4242	3/4" FIP x 3/4" FIP	10

# HVAC Supplies and Accessories

## DiversiTech

### Washer, Dryer, Water Heater Supplies

#### Indoor/Outdoor Gas Connectors

##### Dormont "20 Series" Gas Connectors



1/2" O.D. x 3/8" I.D. 1/2" MIP x 1/2" FIP Connectors

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
CON01087	20-3132-36	36" Long	12

##### Dormont "20 Series" Gas Connectors with Gas Valves



1/2" O.D. x 3/8" I.D. 1/2" MIP x 1/2" FIP Ball Valve

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
CON01086	20-3132-24	24" Long	12
CON01091	20-3135-36	36" Long	12

##### Dormont "30 Series" Gas Connectors



Corrugated, stainless steel connectors with special "Supr-Safe" design to increase flexibility. Maximum service and safety, approved for indoor or outdoor use. Perfect for range and furnace connection. AGA and CGA approved. 7/8" O.D. x 1/2" I.D. 1/2" MIP x 1/2" FIP Connectors

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
CON01078	30-3132-18	18" Long	12
CON01079	30-3132-24	24" Long	12
CON01080	30-3132-30	30" Long	12
CON01081	30-3132-36	36" Long	12
CON01082	30-3132-48	48" Long	12
CON01083	30-3132-60	60" Long	12

#### Louvered Dryer Vent Hood



Deflecto's SUppurr-Vent louvered vent hoods are available with aluminum pipe and collar or hood only. Ideal for dryer and bathroom fan exhausts.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
HOD00414	650-017	4" Hood, Pipe and Collar - White (Unassembled)	6

#### SUppurr-FLEX 5 Ply Duct



Pure aluminum 5 ply multi-layered flexible metallic duct. U.L. 181 Listed. Will "contain" a fire up to 265°F. Leading dryer manufacturers recommend using SUppurr-FLEX dryer vent ducting.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
DUC01034	FUL0425	4" x 25' SUppurr-FLEX	1

DiversiTech

Welding Torches, Gases, Supplies

Blaze Barrier® Cloth



This flame barrier drop cloth withstands temperatures to 3,000°F. No asbestos. Protects walls, floors, equipment, components and adjacent surfaces from torch flames when soldering, brazing or welding. All cloths have edges taped and sewn with grommets at each corner. Highly resistant to many chemicals and acids.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
SHD00347	16500	18" x 18" Plain	1
SHD00348	16510	18" x 18" Keyhole w/cutout for draping over pipes & tubes	1

MAPP and Propane Gas



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
CYL00195	525-PT1	Propane Gas – 14.1 oz.	12
CYL00194	525-MT1	MAPP Gas – 16 oz.	12

Wire Connectors

Wire Connectors – Contractor Packs



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
CON01235	C222	Closed End Connectors 22-14 W	18
CON01269	C222C	Closed End Connectors 22-14 W	100
CON01236	C223	Closed End Connectors 18-10 W	15
CON01270	C223C	Closed End Connectors 18-10 W	100
CON01237	C241	Wire Connectors – Blue	20
CON01238	C243	Wire Connectors – Orange	15
CON01266	C245	Wire Connectors – Yellow	13
CON01267	C247	Wire Connectors – Red	10
CON01239	C312	Winged Wire Connectors – Yellow, 3 - #12	13
CON01240	C312L	Winged Wire Connectors – Yellow, 3 - #12	50
CON01241	C512	Winged Wire Connectors – Red, 5 - #12	10
CON01281	C512L	Winged Wire Connectors – Red, 5 - #12	50

Wire Connectors – Screw-On



Color-coded wire connectors make quick, secure connections for positive continuity. Tough, high-dielectric thermoplastic shell resists chemical action from hydrocarbons, dilute acid or alkaline solutions and features deep skirt design to prevent exposure of bare wire.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
CON01169	623-001	Gray, Size 71B, #22 to #16 AWG, 300V Max.	100/Box
CON01170	623-002	Blue, Size 72B, #22 to #16 AWG, 300V Max.	100/Box
CON01171	623-003	Orange, Size 73B, #22 to #14 AWG, 600V Max.	100/Box
CON01172	623-004	Yellow, Size 74B, #18 to #10 AWG, 600V Max.	100/Box
CON01173	623-005	Red, Size 76B, #18 to #10 AWG, 600V Max.	100/Box

# HVAC Supplies and Accessories

## DiversiTech

### Wire Connectors

#### Wire Connectors – Winged



Wings give surer grip and offset center design provides great twisting leverage. Expandable square-wire spring instantly adjusts to the shape and size to create a strong, vibration-resistant connection. Same superior shell as screw-on type.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	STANDARD PACK
CON01174	623-000	Lg. Gray, Size 78B, #14 to #8 AWG, 600V Max.	50/Box
CON01175	623-006	Yellow, Size 84, #22 to #10 AWG, 600V Max.	100/Box
CON01176	623-007	Red, Size 86, #18 to #10 AWG, 600V Max.	100/Box
CON01177	623-008	Blue, Size 88, #10 to #6, 600V Max.	50/Box

## Duct Smoke Detectors by System Sensor

### 100 Series Duct Smoke Detectors



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
SEN01037	DH100ACDCP	Low flow 4-wire photoelectric
SEN00944	DH100ACDCI	4-wire ionization
SEN01139	DH100ACDCLWP	NEMA 4 watertight 4-wire low flow

### 400 Series Bases

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
BAS01683	B404B	Base, detector, 6.6" x 2.75" x 1.5"
BAS01792	B404BT	Base, detector, 24VAC/DC, 6.6" x 2.75" x 1.5"

### 400 Series Replacement Parts

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
KIT06342	A2650-01	Kit, installation
CAP00836	P48-21-00	Cap, end
COV02911	C58-172-03	Cover
KIT06343	F36-05-00	Kit, filter
CAB00851	MOD45R	Cord

### 400 Series Smoke Detector Heads

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
SEN00912	1451DH	Sensor, smoke detector, ion, plug-in
SEN01009	2451	Sensor, smoke detector, photo, plug-in
SEN00915	1451DHHT	Sensor, smoke detector, ion, plug-in

### Accessories

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
TUB09385	A2440-00	Tube, extension
SEN00917	APA451	Annunciator
SEN00918	RA400Z	Annunciator, 14 to 140°F
SEN00919	RTS451	Remote, magnetic
SEN00920	RTS451KEY	Remote, key
TOL00914	CRT400	Tool
MOD00861	MOD400R	Module



Duct Smoke Detectors by System Sensor

Audible/Visible Notification



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	Series	Type	Voltage
TRM00041	P1224MC	The SpectrAlert P1224MC is a red Selectable Output Horn/Strobe that self-adjusts for either 12 or 24 volt operation.	SpectrAlert	Horn/Strobe	12 or 24VDC and FWR unfiltered

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	Series	Type	Voltage
TRM00033	PA 400B	Remote Sounder	Mini-Alert	Sounder	12/24V

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	Series	Type	Voltage
TRM00031	PA 400R	The PA400R is a red 12/24 volt sounder.	Mini-Alert	Sounder	12/24V

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	Series	Type	Voltage
TRM00032	PA0400W	The PA400W is a white 12/24 volt sounder.	Mini-Alert	Sounder	12/24V

Duct Smoke Detectors by System Sensor

DH100 Series Replacement Parts

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
SRN00814	C58-205-200	Screen
KIT06341	F36-00-00	Kit, filter
BRD01725	A5064-00	Board
MAG00012	M02-04-00	Magnet
BRD01727	I57-1002-01	Insulator

High-Temperature Duct Smoke Detector

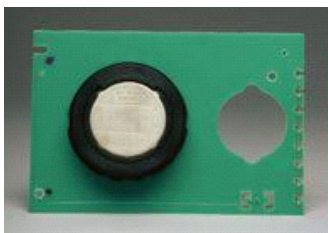
SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
SEN00916	DH400ACDCIHT	Sensor, air, 32 to 158°F

High-Temperature Duct Smoke Detector Head

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
BOX01354	DH400OE-1	Enclosure, 18" x 12" x 6", unit

Duct Smoke Detectors by System Sensor

HVAC Systems Monitoring



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	Series	Type
BRD02719	A5052	Replacement Ionization Detector Board	Innovair	Accessory

# HVAC Supplies and Accessories

## Duct Smoke Detectors by System Sensor

### HVAC Systems Monitoring



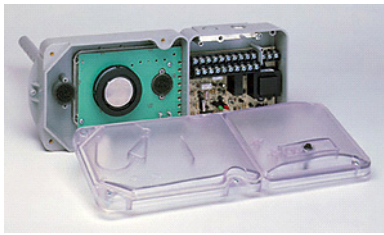
SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	Series	Type
BRD03069	A5190	Replacement 4-wire Photoelectric Detector Board	Innovair	Accessory



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
COV03183	DH1CVR	FOR DH1 Sensor

**Duct Smoke Detectors by System Sensor**

**HVAC Systems Monitoring**



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	Series	Type	Wiring
SEN01201	DH100ACDCI	Conventional 4-Wire Ionization Duct Smoke Detector, pallet quantity, 70 per pallet	Innovair	Duct Smoke Detector	4-wire



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	Series	Type	Wiring
SEN01244	DH100LP	Conventional 2-Wire Photoelectronic Duct Smoke Detector with Low-Flow Technology	Innovair	Duct Smoke Detector	2-wire



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	Series	Type
LEN00806	PS 12/ 24LENSW	SMOKE lens, ceiling mount	Mini-Alert	Accessory



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	Series	Type
LEN00807	PS 12/ 24S LENS	SMOKE lens, wall mount	Mini-Alert	Accessory



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
TRM00037	PS 24LO	Mini-Alert Add-on Strobe (red)



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	Series	Type	Voltage Range
TRM00038	PS 24LOW	Mini-Alert Add-on Strobe for use with PA400W	Mini-Alert	Accessory	(see installation manual)



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	Type
KIT07450	RTC100	The RTC100 is a remote test coil kit for use with the low-profile B114LP bases.	Accessory

**HVAC Supplies and Accessories**

# HVAC Supplies and Accessories

## Duct Smoke Detectors by System Sensor

### Sampling Tubes

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
TUB09379	ST-1.5	Tube, metal, 1' to 2'
TUB09380	ST-3	Tube, metal, 2' to 4'
TUB09381	ST-5	Tube, metal, 4' to 8'
TUB09382	ST-10	Tube, metal, 8' to 12'

### Dwyer

#### Air Velocity Kit



Includes Digital Manometer, Pitot Tube, Accessories

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
KIT09645	475-1-FM-AV	Air Velocity Kit

#### Combustion Test Kit

A Complete Kit, with Extra Supplies to Save You Time and Money

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
KIT12066	1200-B	Combustion Test Kit with Dwyer Magnehelic® Dial Gage

#### Digital Differential Manometer



Selectable Engineering Units, Min/Max, Backlight, ±1.5% Accuracy

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
TOL02234	478-0	Digital Differential Manometer

#### Dual Range Flex-Tube® U-Inclined Manometers



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	As Vertical U-Tube Manometer	As Inclined Manometer
GAG00995	1227	Dual Range Flex-Tube® U-Inclined Manometer	0-16" Water with 1" Major Divisions, .2" Minor Divisions	Scale is 17" Long, Reading .20-0-2.6" Water with .02" Minor Divisions

#### Flex-Tube® U-Tube Manometers



SERVICEFIRST ITEM NO	VENDOR ITEM NO	Range
GAG00989	1222-12-W/M	6-0-6
GAG01031	1223-8-D	4-0-4

**Dwyer**

**Mark II Molded Plastic Manometers**



Dwyer Mark II series molded manometers are of the inclined and inclined-vertical types. The curved inclined-vertical tube of the Model 25 gage provides higher ranges with more easily read increments at low readings. The Model 25 is excellent for general purpose work. The Model 40 inclined gage provides linear calibration and excellent resolution throughout its range. The Model 40 is ideally suited for air velocity and air filter gage applications. Both gage types are capable of pressure measurements above and below atmospheric as well as differential pressure measurements.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Range	Fluid Used
GAG00991	MARK II 25	0-3 in w.c	Red oil, .826 s.g.

**Mk III Handheld Digital Manometer**



Ranges from 1 in w.c. to 150 psid, ±0.5% Accuracy

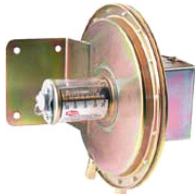
SERVICEFIRST ITEM NO	VENDOR ITEM NO	English Range	Metric Range	Maximum Pressure
TOL02233	475-1-FM	0-19.99" w.c.	0-4.97 kPa	10 psig/68.9 kPa

**Double Bellows Differential Pressure Switch**

Visible Setpoints, Adjustable or Fixed Deadband, High Pressure ranges

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Bellows Material	Range - psid (bar)	Maximum Pressure - psig (bar)	Minimum Dead Band - psid (bar)
SWT02920	DPA-7033-153-64	Brass	0-30 (0-2.1)	300 (20.7)	6.0 (.41)

**Large Diaphragm Pressure Switch**



Visual Set Point Adjustment in 5 Standard Ranges, 0.05" to 12" w.c., Repetitive Accuracy within ±1%

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Operating Range - Inches wc	Approximate Dead Band at	
			Minimum Set Point	Maximum Set Point
SWT02823	1638-0	0.05-0.25	0.04	0.05

**Low Differential Pressure Switch for General Industrial Service**

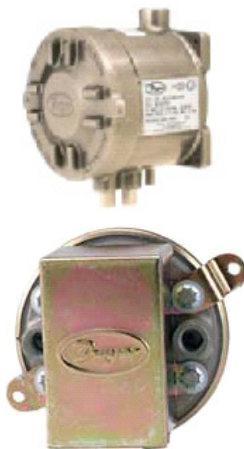


Series 1823 Pressure Switch. UL and CSA listed, FM approved

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Operating Range - Inches wc	Approximate Dead Band at	
			Minimum Set Point	Maximum Set Point
SWT02825	1823-0	0.15-0.5	0.06 Minimum	0.06 Maximum
SWT02828	1823-2	0.5-2.0	0.10 Minimum	0.12 Maximum

**Compact Low Differential Pressure Switches**

Series 1910 Switches



SERVICEFIRST ITEM NO	VENDOR ITEM NO	Operating Range - Inches wc	Approximate Dead Band at	
			Minimum Set Point	Maximum Set Point
SWT00661	G1910-0	0.15 to 0.55	0.1	0.1

Series 1910 pressure switch. All pressure and electrical connections and set point adjustments are on one side for easy installation.as

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Operating Range - Inches wc	Approximate Dead Band at	
			Minimum Set Point	Maximum Set Point
SWT00606	1910-0	0.15-0.55	0.10 Minimum	0.10 Maximum
SWT00980	1910-1-GOLD	0.40-1.6	0.15 Minimum	0.16 Maximum
SWT01159	1910-00 **	0.07-0.15	0.04 Minimum	0.04 Maximum

**HVAC Supplies and Accessories**

# HVAC Supplies and Accessories

## Dwyer

### Accessories Static Pressure Sensors



These sensors are for use with Manometers, Magnehelic® Gages, Pressure Switches and other Controllers to pick up or sense static pressure drop across air filters and cooling coils, blower input and discharge pressures, etc. The angled tips shown have 4" insertion depth. Each has four radially drilled .040" sensing holes. All except Model A-303 mount in 3/8" hole in duct. For portable use, a magnet holds No. A-303 in place. No. A-305 is used where a very low actuation or sensing point is required on a pressure switch or gage or where response time is critical. No. A-307 and A-308 are suitable for use in low velocity systems or where the need for accuracy is less critical.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
SEN01276	A-302	Static Pressure Tip, for 3/16" and 1/8" ID plastic or rubber tubing
SEN01275	A-301	Static Pressure Tip, for 1/4" metal tubing connection
SEN01279	A-306	Outdoor Static Pressure Sensor, provides average outdoor pressure signal for reference in building pressurization applications, includes sensor, 50 ft vinyl tubing, mounting bracket and hardware
TIP00171	A-301-C	Static Pressure Tip, for 1/4" metal tubing connection with 12" insertion depth

### Flotect® Mini-Size Flow Switch

Monitor Flow in 1/2 to 2" Pipe, Explosion-proof, Leak Proof Body



SERVICEFIRST ITEM NO	VENDOR ITEM NO	Lower Body	Size	Tee
SWT00235	V6EPB-B-S-2-B	Brass	3/4"	Brass

Dwyer

Flotect® Vane Operated Flow Switch

Field Adjustable – 1 to 6 Inch Pipe, Leak Proof Body



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
SWT02822	V8	Flow Switch

Magnehelic® Differential Pressure Gages



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
KIT07478	A-605	Air Filter Kit - adapts any standard Magnehelic® for use as an air filter gage. Includes aluminum surface mounting bracket with screws, (2) 5 ft (1.5 m) lengths of 1/4" aluminum tubing, (2) static pressure tips & (2) molded plastic vent valves.
HDL00953	A-432A	Plastic Carrying Case for Magnehelic® Gage of standard range, except high pressure connection, includes 9 ft (2.7m) of 3/16" ID rubber tubing, standhang bracket & terminal tube with holder

Indicate Positive, Negative or Differential, Accurate within 2%  
 Standard Magnehelic® Pressure Gage has a large, easy-to-read 4" dial.  
 Patent Nos. 4,030,365 5,012,378

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Range - Inches wc/Velocity ft/min	Minor Divisions
GAG00928	2005		0.1
GAG00874	2002		0.05
GAG00988	2015		0.5
GAG00993	2006		0.2
GAG00987	2000-00		0.005
GAG00888	2000-0		0.01
GAG00999	2302		0.05
GAG00805	2001		0.02
GAG01037	2300-0		0.01
GAG01036	2010AV	0-10/2000-12500	2000-12500
GAG01032	2301		0.02
GAG01002	2002AV	0-2.0/1000-5600	1000-5600

Minihelic® II Differential Pressure Gages



Combining High Accuracy, Compactness, Dependability, and Low Cost  
 The Series 2-5000 MiniHelic® II low differential pressure gage provides excellent readability in a compact size.  
 Patent No. 4,347,744

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
KIT09647	A-434	Portable Kit for Series 2-5000

Photohelic® Pressure Switch/Gage



3-in-One Indicating Gage, Lo-limit and Hi-Limit Control  
 Series A3000 Photohelic® Switch/Gage. Set points are instantly adjusted with front knobs.  
 Patent No. 3,862,416

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Range - Inches wc
GAG00998	A3000-00	0-25

HVAC Supplies and Accessories

# HVAC Supplies and Accessories

## Dwyer

### Static Pressure Sensors



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
KIT01190	A306	Outdoor static pressure sensor. Provides average outdoor pressure signal for reference in building pressurization applications. Includes sensor, 50 ft. vinyl tubing, mounting bracket and hardware

### Accessories Carrying Cases

Steel cases are substantially constructed and finished in gray hammerloid. Molded plastic cases are gray, high density polyethylene.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
HDL00954	A-402A	Nylon Carrying Pouch - 7-1/2" x 3" x 2-1/4".

### Accessories Fittings - Filters



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
ADP01103	A-339	Adapter, brass, 1/8" NPT to 3/16" rubber and 1/8" ID plastic tubing



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
SEN01277	A-303	Portable Static Pressure Tip, for 3/16" ID rubber or plastic tubing with 4" insertion
TUB11284	A-201	Rubber Tubing, 3/16" ID, 9 ft length
FLG01114	A-345	Flange, aluminum with gasket and sheet metal screws, 1/8" NPT

### Accessories Valves - Connectors



Instrument valves for permanent installation. They mount in part A-316, A-317, type C Manometer connections or Magnehelic® Gage and connect to metal tubing or 1/8" pipe. Gage Connectors for Manometers. Molded nylon construction, threaded .786 x 27 N.S., with O-ring seal.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
VAL08310	A-310A	3-Way Vent Valve, plastic, 1/8" NPT to 1/4" metal tubing. 80 psi rating. Replaces former Model A-310 (brass)
CON01272	A-315	Gage Connector, shutoff type, for 3/16" rubber tubing

### Air Filter Kit



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
KIT09668	A-602	Air Filter Kit, accessory package for using switch without a gage, includes two pressure tips with integral compression fittings, two 5' lengths of 1/4" aluminum tubing & two 1/8" NPT to 1/4" tubing compression fittings



**Dwyer**

**Gage Fluids**



Gage fluids in the 3/4 ounce size are furnished in unbreakable plastic dispenser type bottles. Larger sizes are supplied in plastic bottles with screw caps. Mercury is supplied only in the single size plastic container. CAUTION: Use only Dwyer fluids in Dwyer gages. Red Gage Oil, .826 sp. gr. The standard fluid for use in inclined manometers, "D" type vertical manometers and all Dwyer gages using red oil.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
OIL00156	A-101	3/4 oz. dispenser bottle
OIL00157	A-102	4 oz. bottle

**Miscellaneous**



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
PLT03904	A-368	Surface mounting plate, aluminum, for Magnehelic® gage

**Stainless Steel Pitot Tube**



ASME Design Meets AMCA and ASHRAE Codes

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Insertion Length
TUB11364	160-8	8"

**EZ Trap**

**100 Series**

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
TRP00010	EZT-120	Standard, 3/4" cross trap kit Bramec Super-Pan® plastic secondary drain pan
TRP00033	EZT-113	3/4" blow molded economy trap, no brush
TRP00038	EZT-105	3/4" special, 3" deep cross trap kit

**200 ULTRATRAP Series**

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
TRP00035	EZT-150	Standard plain trap, accepts 3/4" or 1" inlet and outlet, suitable for low pressure air handlers, can be installed adjacent to air handler or remotely in a vertical riser and can operate at up to 20 degrees from horizontal plane. If installed with 1" inl
TRP00036	EZT-250	ULTRATRAP switched waterless trap

# HVAC Supplies and Accessories

## EZ Trap

### 220 Series



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
SWT02555	EZT-225	Inline model, 1" x 3/4" Tee, suitable for vertical or horizontal installation, inline or plug type, includes removable slip fit drainage plug and 1" x 3/4" inlet adaptor.
SWT02556	EZT-226	Compact model, 90° street Ell with 3/4" female slip inlet, includes 3/4" male threaded inlet adaptor.
SWT02657	EZT-224	Compact model, 90° street Ell with 3/4" male thread inlet for direct coupling into 3/4" female threaded drain outlets.
SWT02895	EZT-228	1" x 3/4" Tee with clear plastic telltale tube extension with tethered screw cap for draining. Special model conforms to Alabama code requirements. Inline primary/secondary overflow switch, 3/4" with clear extension, screw-in plug and cable

### 400 Series

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
BRU00323	EZT-406	Flexible cleaning brush, 18" long.

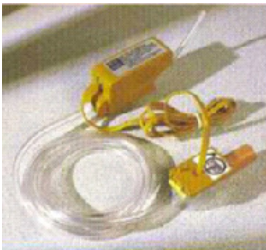
### 600 Series



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
KIT09699	EZT-626	Includes the EZT-113B trap kit and an EZT-226 overflow switch kit.

## Aspen Pumps

### Mini Orange



A Revolution in Pumps designed for use in minisplit installations. Kit includes all components required for installation.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
PMP01702	ASP-MO115	Complete pump and sensor package in 115 volt, 60 Hz.
PMP01703	ASP-MO230	Complete pump and sensor package in 230 volt, 60Hz.

### Mini Lime

A Revolution in Pumps designed for use in minisplit installations. Kit includes all components required for installation.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
PMP01704	ASP-ML115	Mini Lime condensate pump for mini-split AC systems, 115V
PMP01705	ASP-ML230	Mini Lime condensate pump for mini-split AC systems, 230V

### High Flow Condensate Pumps

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
PMP01706	ASP-HFB1-115	High flow basic size 1 condensate pump, 0.3 gallon tank, 115V
PMP01707	ASP-HFB1-230	High flow basic size 1 condensate pump, 0.3 gallon tank, 230V

Fall Protection by J.J. Keller

Personal Protection Equipment (PPE) Kits

Lockout/Tagout Kit Replacement Components by J.J. Keller



Properly mark and lockout equipment. Compliant with 29 CFR Section 1910.147 requirements.

- Master lock lockout hasps, secure up to six padlocks
- Master lock 410LT 3" shackles, non-conductive Xenoy body
- Padlock ID stickers
- Lockout Tags - DANGER
- Universal multi-pole breaker lockout
- Single-pole breaker prinzing, accepts 9/32" shackle

SERVICEFIRST ITEM NO	Description
LOK00046	Masterlock 624-R Lockout Hasp
LOK00047	Masterlock 410LT 3" Shackles
LBL00266	RSP-OS Padlock ID Stickers
LBL00267	Lockout Tag - Danger, RSP-SS
LOK00048	Multi-Pole Breaker Lockout, 614-RL
BKR01877	Single-Pole Breaker Prinzing, RSP-OS
KIT13542	American Standard PPE Kit
KIT13539	ServiceFirst HVAC PPE Kit
KIT13613	Trane PPE Kit

Sale Representative PPE Kit replacement components by J.J. Keller



- Bullard hard hat
- Wilson Cruisers safety glasses, clear
- Ear plugs
- Leather gloves

SERVICEFIRST ITEM NO	Description
N/A	Bullard Hard Hat, White, Without Logo (Replenish kit with APL00156 MSA, Class E)
GLS00935	Wilson Cruisers Safety Glasses, Clear
N/A	Ear Plugs (Replenish Kit with PLU00994, Fish Bowl, 100 Pair)
APL00165	Leather Gloves
KIT13538	ServiceFirst HVAC Sale Rep PPE Kit
KIT13541	American Standard Sale Rep PPE Kit
KIT13612	Trane Sales Rep PPE Kit

# HVAC Supplies and Accessories

## Fall Protection by J.J. Keller

### Personal Protection Equipment (PPE) Kits

#### Service Technician PPE Kit replacement components



- Bullard hard hat
- Wilson Cruisers safety glasses, 2 pair (clear and tinted)
- Spoggles safety goggles
- Ear Muffs
- Ear plugs, 2 pair
- Face shield and visor
- Kevlar gloves
- Butyl gloves
- 50 feet nylon rope
- North Redi Care kit
- 32 oz. Eyewash
- 20 oz. water bottle

SERVICEFIRST ITEM NO	Description
SHD00393	Adjustable Face Shield
SHD00405	Replacement Shield
N/A	Bullard Hard Hat, White, Without Logo (Replenish kit with APL00156, MSA, Class E)
GLS00935	Wilson Cruiser Safety Glasses, Clear
GLS00936	Wilson Cruiser Safety Glasses, Tinted
GLS00937	Spoggles Safety Goggles
MFL00824	Ear Muffs
N/A	Ear Plugs (Replenish with PLU00994, Fish Bowl, 100 Pair)
APL00165	Leather Gloves
APL00163	Ansell Kevlar Palm Coated Glove
APL00164	Butyl Nitrile Chemical Resistant Gloves
KIT13582	North Redi Care Kit
SOV00055	Eyewash, 32 ounce bottle
CAS01799	Service Technician PPE Kit, Bag Only, ServiceFirst Logo
CAS01800	Service Technician PPE Kit, Bag Only, Trane Logo
APL00176	Bantum Terminator Mechanics Gloves
KIT13540	American Standard Service Technician PPE Kit
KIT13537	ServiceFirst HVAC Service Technician PPE Kit
KIT13611	Trane Service Technician PPE Kit

## Safety Equipment by MSA Safety Works

### Personal Protection Equipment (PPE) Kits

#### Fall Protection Kit replacement components



- Shock absorbing lanyard
- FP pro harness, vest style
- PointGuard residential anchorage connector strap

SERVICEFIRST ITEM NO	Description
APL00159	Vest Style Standard Size FP Pro
APL00162	Vest Style Harness, Standard Size, Tongue Buckle Leg Straps, 1 Back D-Ring
SRP00917	Shock Absorbing Lanyard, 6 Feet
SRP00918	Pointguard Residential Anchorage Strap with D-Ring 3 Feet
SRP00916	Horizontal Lifeline for Single Worker System, 60 Feet
KIT13580	American Standard Fall Protection PPE Kit
KIT13610	ServiceFirst Fall Protection PPE Kit
KIT13579	Trane Fall Protection PPE Kit

## Respirators

### Twin-Style Respirators

The unmatched fit and comfort of twin-cartridge respirators from MSA Safety Works start with an exclusive new formulation of rubber and plastic that improves its softness and pliability to provide a virtually customized fit. These are key components in MSA Safety Work's patented system that equates pressure on the face seal area, while delivering exceptional stability so the respirator does not collapse during wear.

Safety Equipment by MSA Safety Works

Respirators

Twin-Style Respirators

Multi-Purpose Respirator



- Patented, flexible face piece for better seal
- Patented cartridges are the most widely approved on the market
- Ideal for working with lead, asbestos, toxic dusts, fiberglass, ammonia, formaldehyde or certain acid gases

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Descriptionj
APL00157	#817663	Multi-Purpose Respirator

Multi-Purpose Replacement Cartridges



- Compatible with Multi-purpose Respirator
- Patented cartridges are the most widely approved on the market.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Description
APL00158	#817667	Multi-Purpose Replacement

Toxic Dust Respirator



- Patented, flexible face piece for better seal
- Lower profile cartridges for unobstructed view
- Ideal for working near lead or asbestos dust, or for soldering

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Description
APL00160	#817664	Toxic Dust Respirator

Toxic Dust Replacement Cartridges (package of 2)



- Compatible with Toxic Dust Respirator
- HEPA-level filtration (P100 NIOSH class)

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Description
APL00161	#817665	Toxic Dust Replacement Cartridges (package of 2)

Eye Protection

Elvex Arc Flash Face Shield by J.J. Keller



- Protection value ATPV of 10 cal/cm2 (requirement is 8 cal/cm2)
- Chin protection and standard anti-fog coating
- VB-10 hard hat bracket
- SA-33 and SA-93 hard hat Adapters included
- Face and hearing protection can be used simultaneously on safety caps

SERVICEFIRST ITEM NO	Description
KIT13762	Elvex Arc Flash Face Shield
SHD00406	Replacement Shield for Arc Flash Face Shield KIT13762

# HVAC Supplies and Accessories

## Safety Equipment by MSA Safety Works

### Eye Protection

#### Economical Safety Glasses



- Fits over most prescription eyewear
- Brow guard helps block falling debris
- Vented templates help keep user cooler

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Description
GLS00938	#817691	Economical Safety Glasses

#### Adjustable Face Shield



- Ratcheted suspension for quick and comfortable adjustment
- Padded, sweat-absorbing brow pad
- Replacement Shield (SHD00405)

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Description
SHD00393	#817893	Adjustable Face Shield

#### Bifocal Safety Glasses



- 2.0 diopter bifocal lenses out of line of sight when not looking down
- Anti-fog lenses
- UV-inhibitor lens blocks 99.999% of UV radiation

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Description
GLS00942	#10061646	Bifocal Safety Glasses

#### Chemical-Splash Safety Goggles



- Indirect venting helps protect against liquid/chemical splashes
- Pliable, soft frame improves comfort
- Fits over most prescription eyewear

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Description
GLS00937	#10031205	Chemical-Splash Safety Goggles

#### Close-Fitting Safety Glasses



- Stylish design fits a wide range of face sizes
- Close fit enhances protection against flying debris
- Anti-fog lens for improved vision.
- UV-inhibitor lens blocks 99.999% of UV radiation

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Description
GLS00936	#1006316	Gray Lens
GLS00935	#1006315	Clear Lens

#### Custom Fit Safety Glasses



- Adjustable lens angle and temples for a custom fit
- Designer styling ideal for outdoor activities
- UV-inhibitor lens blocks 99.999% of UV radiation

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Description
GLS00939	#10020587	Rainbow Mirror
GLS00940	#10020586	Blue Mirror

Safety Equipment by MSA Safety Works

Components for Lockout/Tagout PPE and Fall Protection Kits

Eye Wash Saline Solution by J. J. Keller

SERVICEFIRST ITEM NO	Description
SOV00056	Saline solution, 4 ounce bottle, 24 bottles per case

Hard Hats & Hearing Safety

Protective Hard Hats



Tough and visually appealing hard hats have the same time-tested designs that have been used for decades in the most hazardous industrial environments. The popularity of MSA Safety Works' hard hats is a testament to their outstanding fit and comfort. Each hard hat incorporates a unique nape strap suspension system that keeps the hat firmly in place as you work

Features:

- Adjustable nape strap suspension holds hat securely in place
- Nylon crown suspension straps fit comfortably
- Lightweight and balanced for all-day wear
- Meets or exceeds the applicable requirements for a Type I helmet (top impact) as outlined in ANSI Z89.1-2003, Class E.

SERVICEFIRST ITEM NO	Description
APL00205	Trane logo
APL00156	without logo

Ear Plugs and Ear Muffs

MSA Safety Works' innovative packaging makes selection easier and highlights the comfort of their wide array of hearing protection products. The squeezable packaging offered by MSA Safety Works' allows your customer to feel the softness of MSA Safety Works' ear plugs and muffs before purchasing.

Ear Muffs



- Extremely soft ear cushions improve comfort
- Dielectric design for use around electrical hazards
- High Noise Reduction Rating (NRR 20)

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Description
MFL00824	#10004293	Ear Muffs

Ear Muff HPE Cap Model



- Designed for easy attachment to slotted MSA caps
- Helps to reduce the effects of excessive noise
- NRR Rating of 27 is third party certified

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Description
MFL00825	#10061272	Ear Muff HPE Cap Model

Fish Bowl Ear Plugs, 100 Pair



- Soft, low ear pressure plug for comfort
- High Noise Reduction Rating (NRR 31)

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Description
PLU00994	#10059484	Fish Bowl Ear Plugs, 100 Pair

# HVAC Supplies and Accessories

## Safety Equipment by MSA Safety Works

### Hard Hats & Hearing Safety

#### Ear Plugs and Ear Muffs

##### *Corded Foam Ear Plugs*



- Neck-cord keeps product accessible.
- Low-pressure plugs for added comfort.
- High Noise Reduction Rating (NRR 29)

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Description
PLU00995	#818078	Corded Foam Ear Plugs

##### *Rubber Ear Plugs with Cord*

- Triple-flanged plug design conforms to a variety of ear canal sizes
- Washable and re-useable for maximum value
- High Noise Reduction Rating (NRR 25)

SERVICEFIRST ITEM NO	VENDOR ITEM NO
PLU00993	#10005601



**Safety Equipment by MSA Safety Works**

**NFL Hard Hats**



MSA's NFL hard hats meet OSHA head protection requirements, as they are compliant with ANSI Z89.1-2003, Class E. MSA Safety Works hard hats use the same logos as the NFL helmets (only slightly smaller), for an authentic high quality look. The most popular sport in America is football, and MSA Safety Works' NFL Hard Hats give fans a distinctive way to show their team loyalty. These licensed NFL hard hats are now available through ServiceFirst.

**Features and Benefits:**

- NFL-licensed product drives sales in safety category
- 32 teams available for use at work, home or the game.
- Designed to take all the hardest hits on the jobsite.
- Adjustable nape strap suspension holds that securely in place.
- Nylon crown suspension straps fit comfortably.
- Lightweight and balanced for all-day wear.

**Floor Display:**

- Buy four cut cases of any team(s) and get a free floor display, including the free display helmet shell. Add a notation to your PRIDE 11i order stating "Send MSA's NFL hard hat display p/n 10046556 at no charge with this order."
- Attracts customers' attention resulting in impulse buying.
- Patented display sets up in less than a minute so you can spend more time selling.

# HVAC Supplies and Accessories

## Safety Equipment by MSA Safety Works

### College Hard Hat

Officially Licensed College V-Gard Caps

SERVICEFIRST ITEM NO	Description
APL00210	Alabama Crimson Tide
APL00209	Florida Gators
APL00211	Georgia Bulldogs
APL00212	Louisiana State Tigers
APL00213	Miami Hurricanes
APL00207	Michigan Wolverines
APL00208	North Carolina Tarheels
APL00219	Oklahoma Sooners
APL00220	Southern California Trojans
APL00221	Tennessee Volunteers
APL00222	West Virginia Mountaineers

### Fall Protection & First Aid

MSA Safety Works offers innovative body protection using the best materials for superior results.

#### Three-Piece Protection Kit



- Harmful dust respirator is NIOSH approved (N95 Class)
- Chemical-splash goggles fit over most prescription eyewear
- Comfortable foam ear plugs fit wide range of ear canal sizes

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Description
KIT13522	817892	Three-Piece Protection Kit

#### 160-Piece First Aid Kit



- Includes first aid manual, major wound bandage and instant cold pack
- Dispenser tray keeps kit contents organized
- Gasket seal prevents water and dust from entering case

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Description
KIT13521	#10049585	160-Piece First Aid Kit

#### Pointguard Residential Anchorage

Strap with D-Ring, 3 Feet



- Installs in seconds; cut and throw away when finished
- Durable 1 fl polyester webbing and 5000 lb minimum breaking strength
- Designed to comply with all applicable OSHA regulations as well as ANSI A10.14 and ANSI Z359.1

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Description
SRP00918	10042792	Pointguard Residential Anchorage Strap with

#### Shock Absorbing Lanyard, 6 Ft.



- Single-leg configuration
- Keeps fall arrest forces below 900 lbs.
- Meets ANSI Z359.1 and OSHA standards

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Description
SRP00917	10023932	Shock Absorbing Lanyard, 6 Ft.

**Safety Equipment by MSA Safety Works**

**Fall Protection & First Aid**

**Vest Style Harness**



- Bright red polyester webbing for high visibility
- Lightweight design for increased comfort
- Meets ANSI A10.14 and OSHA Standards as well as CSA Certified

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Description
APL00162	10033836	Vest Style Harness

**Temporary Horizontal Life Line**

*60 Feet, for Single Worker*



- Designed for easy installation and removal
- System may be mounted to any suitable 5,000 lb rated anchorage point
- Created for a wide range of applications

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Description
SRP00916	10013151	Temporary Horizontal Life Line, 60Feet, for Single Worker

**Merchandising Displays**

**MSA Safety Works two and four foot displays**



SERVICEFIRST ITEM NO	Description
KIT13543	4 Ft. Starter Kit
KIT13544	2 Ft. Starter Kit

Safety starter kits for 2' and 4' wide displays are available making entering the safety business fast and easy. Both displays are 7' tall. Each eye-catching display includes an assortment of MSA Safety Works' top-selling items. The assortment includes key eye, head, respiratory, hearing, and fall protection products. All starter kits are shipped with product, signage, planogram and pegboard hardware (gondola not included).

# HVAC Supplies and Accessories

## Tool Backpack by Paktek, Inc.

### TheToolPak Original "TM"

#### Trane Monogrammed Tool Backpack



#### Trane Monogrammed Tool Backpack by Paktek, Inc.

- Order number CAS01801
- Over 100 pockets and holders in 6 individual panels
- Two outside zippered pockets
- Trouble-light loop with quick-release buckle
- Soft-sided and won't damage the surroundings (or you)
- Go places you can't with a rusty toolbox (elevators, ladders, catwalks and confined passageways)
- Ergonomic design making carrying tools easier and comfortable
- Durable, waterproof, black 1000 denier nylon
- Dimensions: 18-1/2" x 14" x 3"-10" (depending on contents)

SERVICEFIRST ITEM NO	Description
CAS01801	Tool Backpack by Patek, Inc., Trane Logo

\*Only Trane monogrammed backpacks available at this time.

## Lithium Battery

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
BAT00022	RL132A-2	Lithium photo/electric battery 123A size carded 2 pack, 3.0 Volt

## Media Filter Cartridges

### Antimicrobial treated

SERVICEFIRST ITEM NO	VENDOR ITEM NO	REPLACES TRION AIR BEAR PARTS NO	NOMINAL SIZE (IN)	ACTUAL SIZE(IN)	PKG QTY	SHIPPING WEIGHT (LBS)
FLR03413	AB-504-BIO	248713-102	20 x 25 x 5	19 5/8 x 24 1/8 x 4 7/8	3	11
FLR03414	AB-502-BIO	248713-101	16 x 25 x 3	15 3/4 x 24 1/4 x 3	6	14
FLR03415	AB-503-BIO	248713-104	20 x 20 x 5	19 3/4 x 20 3/4 x 4 7/8	4	12

Direct replacements for Trion Air Bear media air cleaners.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	REPLACES TRION AIR BEAR PARTS NO	NOMINAL SIZE (IN)	ACTUAL SIZE(IN)	PKG QTY	SHIPPING WEIGHT (LBS)
FLR03410	AB-504	229990-102	20 x 25 x 5	19 5/8 x 24 1/8 x 4 7/8	3	11
FLR03411	AB-502	229990-101	16 x 25 x 3	15 3/4 x 24 1/4 x 3	6	14
FLR03412	AB-503	229990-103	20 x 20 x 5	19 3/4 x 20 3/4 x 4 7/8	4	12

**Perfect Fit Filters For Air Handler Applications**

SERVICEFIRST ITEM NO	VENDOR ITEM NO	CASE QTY	DESCRIPTION	ENCLOSURE USED WITH	SHIP WGT
FLR05045	BAYFTAH21P4A	4	21.5 × 21 × 1 Pleat	21 1/2	3
FLR05046	BAYFTAH23P4A	4	23.5 × 21 × 1 Pleat	23 1/2	3
FLR05047	BAYFTAH26P4A	4	26.0 × 21 × 1 Pleat	26	3
FLR03835	BAYFTAH21W1A	6	21.19 × 19.9 × .875 Permanent Washable	21 1/2	7
FLR03836	BAYFTAH23W1A	6	23.19 × 19.9 × .875 Permanent Washable	23 1/2	7
FLR03837	BAYFTAH26W1A	6	25.69 × 19.9 × .875 Permanent Washable	26	8

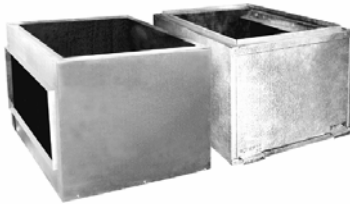
**Perfect Fit™ Air Cleaner Replacement Filters**

Perfect Fit Filters for furnace applications

SERVICEFIRST ITEM NO	VENDOR ITEM NO	CASE QTY	DESCRIPTION	ENCLOSURE USED WITH	SHIP WGT
FLR05048	BAYFTFR14P4A	4	14.5 × 28.5 × 1 Pleat	14 1/2	3
FLR05049	BAYFTFR17P4A	4	17.5 × 28.5 × 1 Pleat	17 1/2	3
FLR05050	BAYFTFR21P4A	4	21.0 × 28.5 × 1 Pleat	21	3
FLR05051	BAYFTFR24P4A	4	24.5 × 28.5 × 1 Pleat	24 1/2	3
FLR03831	BAYFTFR14W1A	6	14.19 × 26.03 × .875 permanent washable, each equals 2 filters per pkg (3 pkg per case)	14 1/2	5
FLR03832	BAYFTFR17W1A	6	17.19 × 26.03 × .875 permanent washable, each equals 2 filters per pkg (3 pkg per case)	17 1/2	6
FLR03833	BAYFTFR21W1A	6	20.69 × 26.03 × .875 permanent washable, each equals 2 filters per pkg (3 pkg per case)	21	8
FLR03834	BAYFTFR24W1A	6	24.19 × 26.03 × .875 permanent washable, each equals 2 filters per pkg (3 pkg per case)	24 1/2	8

**Plenum Downflow Supply**

Insulated with turning vases, 20 ga. galvanized steel



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
PLN00875	DFSP824	8 × 24 Side supply opening, 22" W × 28 1/2" D × 18" H overall dimensions
PLN00876	DFSP1224	12 × 24 Side supply opening, 26 1/2" W × 28 1/2" D × 18" H overall dimensions

**Prefabricated Roof Accessories by Portals Plus**

**Alumi-Flash Systems**



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	PACKAGING
BAS01848	22015	w/126 black cap	5
BAS01849	22025	w/212 black cap	5

**Deck Mates**



SERVICEFIRST ITEM NO	VENDOR ITEM NO	OLD MFG NO	MODEL	SIZE (OD OF PIPE)	CASE QTY	A	B
BAS01853	81036	T003	D.M. 3	1/4"-4"	15	4"	8"
BAS01854	81050	T005	D.M. 5	4"-7"	10	5"	11"
BAS01855	81085	T008	D.M. 8	7"-13"	5	6"	17"
BAS01856	81101	T010	D.M. 10	13"-26"	1	8"	34"

**Equipment Rails**

2×4 Nailer and 18 ga. galv. Cap Standard

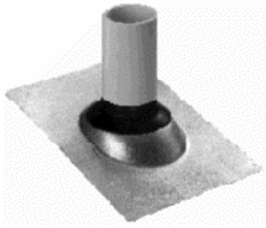
SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	PACKAGING
BAS01850	35331	8" high × 3 ft long	1
BAS01851	35341	8" high × 4 ft long	1
BAS01852	35361	8" high × 6 ft long	1

**HVAC Supplies and Accessories**

# HVAC Supplies and Accessories

## Prefabricated Roof Accessories by Portals Plus

### Shingle Flashing Systems



SERVICEFIRST ITEM NO	VENDOR ITEM NO	SIZE
BAS01844	85009	1.25"-1.50"
BAS01845	85019	2"
BAS01846	85029	3"
BAS01847	85039	4"

### Stainless Steel Clamps—For All Systems (Bulk Package)



SERVICEFIRST ITEM NO	VENDOR ITEM NO	SIZE	PACKAGING
CMP00925	49008	3/4"- 1 3/4"	50
CMP00926	49018	7/8"- 2 3/4"	50
CMP00927	49048	2"- 7"	50
CMP00928	49068	1 3/4"- 15"	50

### Rectorseal EZ Klear

#### 3-way clean-out fitting

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
FTG00868	97585	Fitting, Easy Klear 3-way clean-out valve

### Replacement Filter Media

Direct replacements for Honeywell.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	REPLACES HONEYWELL REPLACEMENT MEDIA PART NO	NOMINAL SIZE (IN)	ACTUAL SIZE(IN)	PKG QTY	SHIPPING WEIGHT (LBS)
FLR03416	HW-520	203722	12 1/2 x 20 x 4	12 1/2 x 20 x 4 3/8	5	7
FLR03417	HW-501	209894	16 x 20 x 4	16 x 19 3/4 x 4 3/8	5	9
FLR03418	HW-502	203719	16 x 25 x 4	16 x 24 7/8 x 4 3/8	5	11.5
FLR03419	HW-503	203721	20 x 20 x 4	19 3/4 x 20 x 4 3/8	5	11.5
FLR03420	HW-504	203720	20 x 25 x 4	20 x 24 7/8 x 4 3/8	5	14

### Sigling Devices by System Sensor

#### Multi-Sigling Accessory

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
SEN00970	SSK451	Sensor, multi-signaling accessory

### SlimDuct

#### Condenser Brackets, Risers, Hoses and Accessories

SERVICEFIRST ITEM NO	VENDOR ITEM NO	ItemDescription	Carton Quantity	Dimensions			Weight
				L	W	H	
BRK03482	C-KB	WALL CONDENSER STAND 176 LB.	4	44	11	7	49
BRK03467	C-KU2	WALL CONDENSER STAND 132 LB	4	43	10	9	40
BRK03480	C-SY	SLOPE CONDENSER STAND 176 LB	6	31	10	9	67
HSE01501	DHQ-16	OUTDOOR HOSE 164 FT. COIL	6	31	16	31	41
ADP01120	DSH-14-16V	PIPE ADAPTOR	20	3	12	6	2
BRK03488	PC-K30	220 LB GALV WALL BRACKET	1	41	8	6	32
BAS02046	PR-35IN-1	PLAROCK BASE 14 IN., 308 LB	20	18	15	16	32
BAS02047	PR-35IN-M	PLAROCK BASE 18 IN., 397 LB	20	19	18	16	40

**SlimDuct**

**SC Series Vertical Ell**

SERVICEFIRST ITEM NO	VENDOR ITEM NO	ItemDescription	Carton Quantity	Dimensions				Weight
				L	W	H		
ELL01056	SC-100-I	90 DEG VERTICAL ELL	20	22	10	10	10	
ELL01058	SC-100-W	90 DEG VERTICAL ELL	20	22	10	10	10	
ELL01050	SC-77-I	90 DEG VERTICAL ELL	20	17	8	9	7	
ELL01052	SC-77-W	90 DEG VERTICAL ELL	20	17	8	9	6	

**SD Series SlimDuct**

SERVICEFIRST ITEM NO	VENDOR ITEM NO	ItemDescription	Carton Quantity	Dimensions				Weight
				L	W	H		
DUC01115	SD-100-I	SLIMDUCT 78 IN. LENGTH	10	80	10	6	49	
DUC01112	SD-100-W	SLIMDUCT 78 IN. LENGTH	10	80	10	6	49	
DUC01113	SD-77-I	SLIMDUCT 78 IN. LENGTH	15	80	12	5	45	
DUC01111	SD-77-W	SLIMDUCT 78 IN. LENGTH	15	80	12	5	45	

**SEN Series End Fittings**

SERVICEFIRST ITEM NO	VENDOR ITEM NO	ItemDescription	Carton Quantity	Dimensions				Weight
				L	W	H		
FTG01040	SEN-100-I	END FITTING	20	22	10	7	6	
FTG01037	SEN-77-B	END FITTING	20	17	8	6	5	
FTG01034	SEN-77-I	END FITTING	20	17	8	6	5	
FTG01028	SEN-77-W	END FITTING	20	17	8	6	5	

**SF Series Flexible Ell**

SERVICEFIRST ITEM NO	VENDOR ITEM NO	ItemDescription	Carton Quantity	Dimensions				Weight
				L	W	H		
ELL01075	SF-77-500-I	FLEXIBLE ELL 20 IN. L	20	21	12	13	8	
ELL01077	SF-77-500-W	FLEXIBLE ELL 20 IN.	20	21	12	13	8	

**SFJ Series Flexible Adaptor**

SERVICEFIRST ITEM NO	VENDOR ITEM NO	ItemDescription	Carton Quantity	Dimensions				Weight
				L	W	H		
ADP01113	SFJ-77-I	FLEXIBLE ADAPTOR	20	15	8	4	3	
ADP01114	SFJ-77-W	FLEXIBLE ADAPTOR	20	15	8	4	3	

**SIF Series Fixed Offset**

SERVICEFIRST ITEM NO	VENDOR ITEM NO	ItemDescription	Carton Quantity	Dimensions				Weight
				L	W	H		
FTG01068	SIF-77-W	2 IN. FIXED OFFSET	20	17	10	16	12	

**SJ Series Coupler**

SERVICEFIRST ITEM NO	VENDOR ITEM NO	ItemDescription	Carton Quantity	Dimensions				Weight
				L	W	H		
CPL01061	SJ-100-I	COUPLER	20	14	9	7	5	
CPL01060	SJ-77-B	COUPLER	20	14	7	5	3	
CPL01059	SJ-77-I	COUPLER	20	11	7	6	3	
CPL01057	SJ-77-W	COUPLER	20	14	7	5	3	

**SK Series 90 Flat Ell**

SERVICEFIRST ITEM NO	VENDOR ITEM NO	ItemDescription	Carton Quantity	Dimensions				Weight
				L	W	H		
ELL01035	SK-100-I	90 DEG. FLAT ELL	20	15	13	13	11	
ELL01034	SK-77-B	90 DEG. FLAT ELL	20	14	11	11	8	
ELL01033	SK-77-I	90 DEG. FLAT ELL	20	14	11	11	8	

## HVAC Supplies and Accessories

### SlimDuct

#### SP Series Soffit Inlet

SERVICEFIRST ITEM NO	VENDOR ITEM NO	ItemDescription	Carton Quantity	Dimensions			
				L	W	H	Weight
FTG01027	SP-77-W	SOFFIT INLET	20	23	10	7	5

#### ST Series Tee

SERVICEFIRST ITEM NO	VENDOR ITEM NO	ItemDescription	Carton Quantity	Dimensions			
				L	W	H	Weight
TEE00960	ST-77-I	TEE	20	18	14	10	16
TEE00961	ST-77-W	TEE	20	18	14	10	16

#### SW Series Wall Inlet

SERVICEFIRST ITEM NO	VENDOR ITEM NO	ItemDescription	Carton Quantity	Dimensions			
				L	W	H	Weight
FTG01038	SW-100-I	WALL INLET	20	24	15	10	13
FTG01029	SW-100-W	WALL INLET	20	24	15	10	13
FTG01035	SW-77-B	WALL INLET	20	20	8	13	9
FTG01032	SW-77-I	WALL INLET	20	20	9	13	9
FTG01026	SW-77-W	WALL INLET	20	20	8	13	9

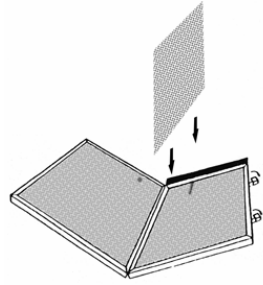
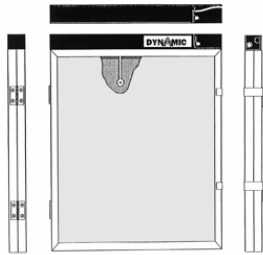
### UL Listed, NEMA Type 3r Enclosure 240 Volts-Disconnects by Siemens

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
SWT02385	WN2060	60A, Non-fused disconnect switch, metallic
SWT02386	WF20302	30A, fused disconnect switch, metallic
SWT02387	WF20602	60A, fused disconnect switch, metallic



**Air Cleaners by Dymic (Electrostatic Polarization)**

**1" Panel Filters, Carbon, 24 volt**



Dynamic Air Cleaners are the next generation of air-cleaning technology. They employ a revolutionary and patented process that has proven itself in commercial, industrial, and medical facilities. Now available for residential applications. Dynamic Air Cleaners will remove the sub-micron particles that other filters miss. Effectively remove allergens, such as pollen, molds, and dust. Become more effective as they load. Keep your entire home cleaner. Easy and economical to maintain.

**Electrical Specifications**

**Main Supply:** 120 VAC/60 Hz 220 VAC/50 Hz

**Onboard Voltage:** 24 volts AC supplied by external transformer

**High Voltage Electrode:** 6 KV supplied by dynamic power supply

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
FLR01901	1P1020C24	10" X 20" X 1"
FLR01814	1P1224C24	12" x 24" x 1"
FLR05851	1P1230C24	12" x 30" x 1"
FLR01966	1P1220C24	12" X 20" X 1"
FLR01910	1P1414C24	14" x 14" x 1"
FLR01826	1P1420C24	14" x 20" x 1"
FLR01782	1P1425C24	14" x 25" x 1"
FLR01821	1P1430C24	14" x 30" x 1"
FLR01910	1P1414C24	14" X 14" X 1"
FLR01923	1P1424C24	14" X 24" X 1"
FLR04498	1P1436C24	14" X 36" X 1"
FLR01786	1P1620C24	16" x 20" x 1"
FLR01824	1P1621C24	16" x 21" x 1"
FLR01815	1P1624C24	16" x 24" x 1"
FLR01783	1P1625C24	16" x 25" x 1"
FLR01823	1P1630C24	16" x 30" x 1"
FLR01818	1P1818C24	18" x 18" x 1"
FLR01820	1P1820C24	18" x 20" x 1"
FLR01822	1P1824C24	18" x 24" x 1"
FLR01883	1P1825C24	18" X 25" X 1"
FLR01787	1P2020C24	20" x 20" x 1"
FLR04328	1P2021C24	20" x 21" x 1"
FLR01816	1P2024C24	20" x 24" x 1"
FLR01784	1P2025C24	20" x 25" x 1"
FLR01825	1P2030C24	20" x 30" x 1"
FLR06048	1P2021.625C24	20" X 21-5/8" X 1"
FLR03695	1P2022C24	20" X 22" X 1"
FLR02969	1P211/2251/2C24	21-1/2" x 25-1/2" x 1"
FLR01785	1P2424C24	24" x 24" x 1"
FLR02791	1P2430C24	24" X 30" X 1"
FLR01937	1P2525C24	25" X 25" X 1"
FLR02710	1P2830C24	28" X 30" X 1"
FLR02711	1P3032C24	30" x 32" x 1"
FLR04026	1P3036C24	30" X 36" X 1"
FLR06007	1P341/2233/4C24	34-1/2" x 23-3/4" x 1"

**2" Panel Filters, Carbon, 24 volt**

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
FLR01889	2P1625C24	16" x 25" x 2"
FLR01934	2P2025C24	20" x 25" x 2"
FLR01947	2P2424C24	24" x 24" x 2"
FLR02627	2P2024C24	20" x 24" x 2"
FLR02755	2P1620C24	16" x 20" x 2"
FLR02760	2P2020C24	20" x 20" x 2"
FLR02786	2P1818C24	18" x 18" x 2"
FLR03357	2P2030C24	20" x 30" x 2"
FLR05812	2P2525C24	25" x 25" x 2"
FLR06216	2P2516C24	25" x 16" x 2"
FLR06371	2P2016C24	20" x 16" x 2"
FLR06587	2P1420C24	14" x 20" x 2"
FLR06613	2P1224C24	12" x 24" x 2"

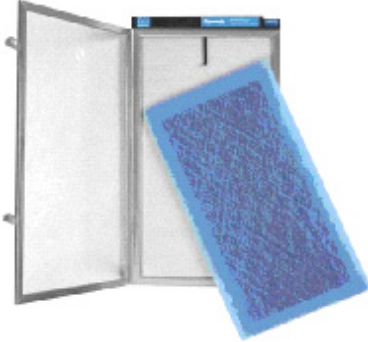
# Indoor Air Quality

## Air Cleaners by Dymic (Electrostatic Polarization)

### Accessories

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
TRR01302	A412402	Transformer, wall
TOL01382	24VPWRPKS	Powerhead, 24 volt for 1" and 2" panels

### Carbon Media 1-Piece



Dynamic Polarized-Media Electronic Air Cleaners With efficiency of 97% at .3 microns, Dynamic Air Cleaners are unsurpassed for removing particles, odors, VOCs and other airborne pathogens. Yet the biggest feature of the Dynamic Air Cleaner is its versatility. With over 30 standard sizes to fit most furnace filter racks and return air grilles, and custom sizes readily available, dealers have a high efficiency electronic air cleaner to offer to their customers on ANY call---with minimal labor and without any ductwork modifications. Low static pressure. Easy to maintain - media pads are easily replaced two to four times a year. Dynamic Air Cleaners are available in 1" and 2" panels that run on 24V and wire directly to the furnace control board or plug into a standard 110V outlet using an optional plug-in transformer. Always sized for the right cfm. Order using nominal filter size. Actual size is 1/4" less than nominal. First dimension is powerhead side (e.g. 1P1625C24 power head is on 16" side). Retrofit models are also available to fit Aprilaire, SpaceGard, F50, AirBear cabinets.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
FLR06637	C1P 111/2231/2	11-1/2" X 23-1/2"
FLR06638	C1P 153/4303/4	15-3/4" X 30-3/4"
FLR06444	C1P2016	20" X 16"
FLR06443	C1P2020	20" X 20"
FLR06676	C1P2025	20" X 25"
FLR06603	C1P221/2153/4	22-1/2" X 15-3/4"
FLR06060	C1P2316	23" X 16"
FLR06489	C1P2516	25" X 16"
FLR06145	C1P281/2233/4	28-1/2" X 23-3/4"
FLR06562	C1P283/425	28-3/4" X 25"
FLR06500	C1P287/820	28-7/8" X 20"
FLR06496	C1P2920	29" X 20"
FLR05781	C1P34.523.75	34-1/2" X 23-3/4"
FLR06141	C1P381/2153/4	38-1/2" X 15-3/4"
FLR05979	C1P4015.75	40" X 15-3/4"
FLR06127	C1P401/2233/4	40-1/2" X 23-3/4"

**Air Cleaners by Dymic (Electrostatic Polarization)**

**Carbon Media 3-Pack**

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
FLR01914	C3P1020	10" X 20"
FLR01788	C3P1224	12" x 24"
FLR05852	C3P1230	12" x 30"
FLR01967	C3P1220	12" X 20"
FLR04499	C3P1436	14 X 36 CARBON MEDIA, 3 PACK
FLR01770	C3P1425	14" x 25"
FLR01795	C3P1430	14" x 30"
FLR01911	C3P1414	14" X 14"
FLR01800	C3P1420	14" X 20"
FLR01932	C3P1424	14" X 24"
FLR01774	C3P1620	16" x 20"
FLR01798	C3P1621	16" x 21"
FLR01789	C3P1624	16" x 24"
FLR01771	C3P1625	16" x 25"
FLR01797	C3P1630	16" x 30"
FLR06636	C3P171/226	17-1/2" x 26"
FLR01792	C3P1818	18" x 18"
FLR01794	C3P1820	18" x 20"
FLR01796	C3P1824	18" x 24"
FLR02709	C3P1825	18" X 25"
FLR04726	C3P2022	20 X 22 CARBON MEDIA, 3 PACK
FLR01951	C3P2016	20" x 16"
FLR01775	C3P2020	20" x 20"
FLR06054	C3P20215/8	20" x 21-5/8"
FLR01790	C3P2024	20" x 24"
FLR01772	C3P2025	20" x 25"
FLR01799	C3P2030	20" x 30"
FLR03628	C3P2021	20" X 21"
FLR02970	C3P21.525.5	21-1/2" X 25-1/2"
FLR01773	C3P2424	24" x 24"
FLR02765	C3P2430	24" X 30"
FLR01957	C3P2516	25" x 16"
FLR01954	C3P2525	25" X 25"
FLR02712	C3P2830	28" X 30"
FLR06342	C3P2925	29" x 25"
FLR03309	C3P2920	29" X 20"
FLR02713	C3P3032	30" X 32"
FLR03042	C3P3036	30" X 36"

# Indoor Air Quality

## Air Cleaners by Dymic (Electrostatic Polarization)

### Carbon Media 24-Pack

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
FLR01903	C24P1020	10" X 20"
FLR01968	C24P1220	12" x 20"
FLR01801	C24P1224	12" x 24"
FLR01813	C24P1420	14" x 20"
FLR01933	C24P1424	14" x 24"
FLR01776	C24P1425	14" x 25"
FLR01808	C24P1430	14" x 30"
FLR06386	C24P1414	14" X 14"
FLR01780	C24P1620	16" x 20"
FLR01811	C24P1621	16" x 21"
FLR01802	C24P1624	16" x 24"
FLR01777	C24P1625	16" x 25"
FLR01810	C24P1630	16" x 30"
FLR01805	C24P1818	18" x 18"
FLR01807	C24P1820	18" x 20"
FLR01809	C24P1824	18" x 24"
FLR01884	C24P1825	18" X 25"
FLR01952	C24P2016	20" x 16"
FLR01781	C24P2020	20" x 20"
FLR06717	C24P20215/8	20" x 21-5/8"
FLR04735	C24P2022	20" x 22"
FLR01803	C24P2024	20" x 24"
FLR01778	C24P2025	20" x 25"
FLR01812	C24P2030	20" x 30"
FLR04705	C24P211/2251/2	21-1/2" x 25-1/2"
FLR03037	C24P22.529.75	22-1/2" X 29-3/4"
FLR01779	C24P2424	24" x 24"
FLR04702	C24P2430	24" X 30"
FLR01958	C24P2516	25" X 16"
FLR01955	C24P2525	25" X 25"
FLR02714	C24P2830	28" X 30"
FLR05969	C24P28.523.75	28-1/2" X 23-3/4"
FLR02715	C24P3032	30" x 32"
FLR06239	C24P3036	30" x 36"
FLR04641	C24P34.523.75	34-1/2" X 23-3/4"

### Demonstration Unit

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
DSP00016	SMDU	Display, smoke box demo unit
FLR03352	C10PSMB	Filter, carbon media for demo smoke box, 10 pack

### Electronic Air Cleaners SST Series by White-Rodgers



SERVICEFIRST ITEM NO	VENDOR ITEM NO	CFM RANGE	TONNAGE	BTU INPUT RANGE	POWER REQUIREMENTS
FLR01410	10C26S-010	600-1200	1.5 to 3.0 A/C	60,000 to 120,000	120VAC
FLR01411	10C27S-010	600-1200	1.5 to 3.0 A/C	60,000 to 120,000	240VAC
FLR01412	14C26S-010	1000-1600	2.5 to 4.0 A/C	100,000 to 160,000	120VAC
FLR01414	16C28S-010	1000-2000	2.5 to 5.0 A/C	100,000 to 200,000	120VAC
FLR01415	20C26S-010	1600-2200	4.0 to 5.5 A/C	160,000 to 220,000	120VAC
FLR01416	20C27S-010	1600-2200	4.0 to 5.5 A/C	160,000 to 220,000	240VAC

**Energy Recovery Ventilation by VENMATE®**

**VENMATE® 300-750 CFM**

**600H Indoor**

A new energy-recovery ventilation product offering from VENMATE® has served customers with innovative heat recovery solutions for the residential and commercial markets. VENMATE® products are available from heat recovery ventilators 300 to 2,800 CFM with plate heat exchangers - ideal for pre-cooling or pre-heating outdoor air entering the space to preconditioners 300 to 950 CFM with total energy wheel heat exchangers - ideal for mating to existing rooftop air conditioners to pre-cool or pre-heat outdoor air using building exhaust air which can often extend the cooling and heating capacity of the rooftop air conditioner.

Building codes often require a minimum rate of outdoor air be brought into your building and a similar amount of air be exhausted from the building. In any season, preconditioning the outdoor air with energy from the exhaust air through a flat plate heat exchangers reduces the burden on your main air conditioning and heating systems. This reduction lowers your energy consumption and saves you money.

SERVICEFIRST ITEM NO	ELECTRICAL	SUPPLY HP
VNT00051	120V 1PH 60Hz 2Sp	0.25
VNT00052	120V 1PH 60Hz 2Sp	0.25
VNT00053	120V 1PH 60Hz 2Sp	0.25
VNT00054	120V 1PH 60Hz 2Sp	0.25
VNT00055	120V 1PH 60Hz 2Sp	0.25
VNT00056	120V 1PH 60Hz 2Sp	0.25

**VENMATE® 700-1250 CFM**

**1200H Indoor**

A new energy-recovery ventilation product offering from VENMATE® has served customers with innovative heat recovery solutions for the residential and commercial markets. VENMATE® products are available from heat recovery ventilators 300 to 2,800 CFM with plate heat exchangers - ideal for pre-cooling or pre-heating outdoor air entering the space to preconditioners 300 to 950 CFM with total energy wheel heat exchangers - ideal for mating to existing rooftop air conditioners to pre-cool or pre-heat outdoor air using building exhaust air which can often extend the cooling and heating capacity of the rooftop air conditioner.

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SERVICEFIRST ITEM NO	ELECTRICAL	SUPPLY HP
VNT00057	120V 1PH 60Hz 2Sp	0.25
VNT00058	120V 1PH 60Hz 2Sp	0.25
VNT00059	120V 1PH 60Hz 2Sp	0.25
VNT00060	120V 1PH 60Hz 2Sp	0.25
VNT00061	120V 1PH 60Hz 2Sp	0.25
VNT00062	120V 1PH 60Hz 2Sp	0.25

# Indoor Air Quality

## Energy Recovery Ventilation by VENMATE®

### VENMATE® 1200-2800 CFM

#### 2000H Indoor

A new energy-recovery ventilation product offering from VENMATE® has served customers with innovative heat recovery solutions for the residential and commercial markets. VENMATE® products are available from heat recovery ventilators 300 to 2,800 CFM with plate heat exchangers - ideal for pre-cooling or pre-heating outdoor air entering the space to preconditioners 300 to 950 CFM with total energy wheel heat exchangers - ideal for mating to existing rooftop air conditioners to pre-cool or pre-heat outdoor air using building exhaust air which can often extend the cooling and heating capacity of the rooftop air conditioner.

Building codes often require a minimum rate of outdoor air be brought into your building and a similar amount of air be exhausted from the building. In any season, preconditioning the outdoor air with energy from the exhaust air through a flat plate heat exchangers reduces the burden on your main air conditioning and heating systems. This reduction lowers your energy consumption and saves you money.

SERVICEFIRST ITEM NO	ELECTRICAL	SUPPLY HP
VNT00063	208V 3PH 60Hz 1Sp	1.5
VNT00064	230V 3PH 60Hz 1Sp	1.5
VNT00065	460V 3PH 60Hz 1Sp	1.5
VNT00066	575V 3PH 60Hz 1Sp	1.5
VNT00067	208V 3PH 60Hz 1Sp	3
VNT00068	230V 3PH 60Hz 1Sp	3
VNT00069	460V 3PH 60Hz 1Sp	3
VNT00070	575V 3PH 60Hz 1Sp	3
VNT00071	208V 3PH 60Hz 1Sp	1.5
VNT00072	230V 3PH 60Hz 1Sp	1.5
VNT00073	460V 3PH 60Hz 1Sp	1.5
VNT00074	575V 3PH 60Hz 1Sp	1.5
VNT00075	208V 3PH 60Hz 1Sp	3
VNT00076	230V 3PH 60Hz 1Sp	3
VNT00077	460V 3PH 60Hz 1Sp	3
VNT00078	575V 3PH 60Hz 1Sp	3
VNT00079	208V 3PH 60Hz 1Sp	1.5
VNT00080	230V 3PH 60Hz 1Sp	1.5
VNT00081	460V 3PH 60Hz 1Sp	1.5
VNT00082	575V 3PH 60Hz 1Sp	1.5
VNT00083	208V 3PH 60Hz 1Sp	3
VNT00084	230V 3PH 60Hz 1Sp	3
VNT00085	460V 3PH 60Hz 1Sp	3
VNT00086	575V 3PH 60Hz 1Sp	3
VNT00087	208V 3PH 60Hz 1Sp	1.5
VNT00088	230V 3PH 60Hz 1Sp	1.5
VNT00089	460V 3PH 60Hz 1Sp	1.5
VNT00090	575V 3PH 60Hz 1Sp	1.5
VNT00091	208V 3PH 60Hz 1Sp	3
VNT00092	230V 3PH 60Hz 1Sp	3
VNT00093	460V 3PH 60Hz 1Sp	3
VNT00094	575V 3PH 60Hz 1Sp	3
VNT00095	208V 3PH 60Hz 1Sp	1.5
VNT00096	230V 3PH 60Hz 1Sp	1.5
VNT00097	460V 3PH 60Hz 1Sp	1.5
VNT00098	575V 3PH 60Hz 1Sp	1.5
VNT00099	208V 3PH 60Hz 1Sp	3
VNT00100	230V 3PH 60Hz 1Sp	3
VNT00101	460V 3PH 60Hz 1Sp	3
VNT00102	575V 3PH 60Hz 1Sp	3
VNT00103	208V 3PH 60Hz 1Sp	1.5
VNT00104	230V 3PH 60Hz 1Sp	1.5
VNT00105	460V 3PH 60Hz 1Sp	1.5
VNT00106	575V 3PH 60Hz 1Sp	1.5
VNT00107	208V 3PH 60Hz 1Sp	3
VNT00108	230V 3PH 60Hz 1Sp	3
VNT00109	460V 3PH 60Hz 1Sp	3
VNT00110	575V 3PH 60Hz 1Sp	3

**Energy Recovery Ventilation by VENMATE®**

**VENMATE® Preconditioner 300-399 CFM**

**350P Outdoor**

*300-399 CFM*

A new energy-recovery ventilation product offering from VENMATE® has served customers with innovative heat recovery solutions for the residential and commercial markets. VENMATE® products are available from heat recovery ventilators 300 to 2,800 CFM with plate heat exchangers - ideal for pre-cooling or pre-heating outdoor air entering the space to preconditioners 300 to 950 CFM with total energy wheel heat exchangers - ideal for mating to existing rooftop air conditioners to pre-cool or pre-heat outdoor air using building exhaust air which can often extend the cooling and heating capacity of the rooftop air conditioner.

Building codes often require a minimum rate of outdoor air be brought into your building and a similar amount of air be exhausted from the building. In any season, preconditioning the outdoor air with energy from the exhaust air through a flat plate heat exchangers reduces the burden on your main air conditioning and heating systems. This reduction lowers your energy consumption and saves you money.

SERVICEFIRST ITEM NO	ELECTRICAL	SUPPLY HP	EXHAUST HP
VNT00111	120V 1PH 60Hz 1Sp	0.25	0.25
VNT00112	120V 1PH 60Hz 1Sp	0.25	0.25
VNT00113	120V 1PH 60Hz 1Sp	0.25	0.25
VNT00114	120V 1PH 60Hz 1Sp	0.25	0.25
VNT00115	120V 1PH 60Hz 1Sp	0.25	0.25
VNT00116	120V 1PH 60Hz 1Sp	0.25	0.25

**VENMATE® Preconditioner 400-525 CFM**

**350P Outdoor**

*400-525 CFM*

A new energy-recovery ventilation product offering from VENMATE® has served customers with innovative heat recovery solutions for the residential and commercial markets. VENMATE® products are available from heat recovery ventilators 300 to 2,800 CFM with plate heat exchangers - ideal for pre-cooling or pre-heating outdoor air entering the space to preconditioners 300 to 950 CFM with total energy wheel heat exchangers - ideal for mating to existing rooftop air conditioners to pre-cool or pre-heat outdoor air using building exhaust air which can often extend the cooling and heating capacity of the rooftop air conditioner.

Building codes often require a minimum rate of outdoor air be brought into your building and a similar amount of air be exhausted from the building. In any season, preconditioning the outdoor air with energy from the exhaust air through a flat plate heat exchangers reduces the burden on your main air conditioning and heating systems. This reduction lowers your energy consumption and saves you money.

SERVICEFIRST ITEM NO	ELECTRICAL	SUPPLY HP
VNT00117	120V 1PH 60Hz 1Sp	0.25
VNT00118	120V 1PH 60Hz 1Sp	0.25
VNT00119	120V 1PH 60Hz 1Sp	0.25
VNT00120	120V 1PH 60Hz 1Sp	0.25
VNT00121	120V 1PH 60Hz 1Sp	0.25
VNT00122	120V 1PH 60Hz 1Sp	0.25

# Indoor Air Quality

## Energy Recovery Ventilation by VENMATE®

### VENMATE® Preconditioner 650-950 CFM

#### 350P Outdoor

A new energy-recovery ventilation product offering from VENMATE® has served customers with innovative heat recovery solutions for the residential and commercial markets. VENMATE® products are available from heat recovery ventilators 300 to 2,800 CFM with plate heat exchangers - ideal for pre-cooling or pre-heating outdoor air entering the space to preconditioners 300 to 950 CFM with total energy wheel heat exchangers - ideal for mating to existing rooftop air conditioners to pre-cool or pre-heat outdoor air using building exhaust air which can often extend the cooling and heating capacity of the rooftop air conditioner.

Building codes often require a minimum rate of outdoor air be brought into your building and a similar amount of air be exhausted from the building. In any season, preconditioning the outdoor air with energy from the exhaust air through a flat plate heat exchangers reduces the burden on your main air conditioning and heating systems. This reduction lowers your energy consumption and saves you money.

SERVICEFIRST ITEM NO	ELECTRICAL	SUPPLY HP
VNT00123	120/230V 1PH 60Hz 1Sp	0.25
VNT00124	120/230V 1PH 60Hz 1Sp	0.25
VNT00125	120/230V 1PH 60Hz 1Sp	0.25
VNT00126	120/230V 1PH 60Hz 1Sp	0.25
VNT00127	120/230V 1PH 60Hz 1Sp	0.25
VNT00128	120/230V 1PH 60Hz 1Sp	0.25

#### VENMATE® 350P Accessories

SERVICEFIRST ITEM NO	DESCRIPTION	TYPE
DIV00214	Airflow separator-PRECON350	Accessory
FLG001127	Flange kit-PRECON350	Accessory

#### VENMATE® 750P Accessories

SERVICEFIRST ITEM NO	DESCRIPTION	TYPE
DIV00215	Airflow separator-PRECON750	Accessory
FLG001128	Flange kit-PRECON750	Accessory

#### VENMATE® HRV Accessories

SERVICEFIRST ITEM NO	DESCRIPTION	TYPE
CNT04760	CO2 controller-comes with LED display	Accessory
CNT04761	Standard Wall Control-off/low/high and dehumidistat control	Accessory
CNT04762	Xtra Wall Control-off/intermittent/timed and dehumidistat control	Accessory
CNT04763	Night setback controller	Accessory
EXC01968	Aluminum heat exchanger for HRV600i (set of 2)	Accessory
EXC01969	Aluminum heat exchanger for HRV1200i (set of 3)	Accessory
FLR06427	MEF filters for HRV600i (set of 2)	Accessory
FLR06428	MEF filters for HRV1200i (set of 3)	Accessory
FLR06429	MEF filters for HRV2000i (set of 2)	Accessory
SWT02925	Hand/Off/Auto switch	Accessory
SWT02926	Two speed switch	Accessory



**HVAC Maintenance**

**HVAC System Contamination Control by ServiceFirst**



SERVICEFIRST ITEM NO	DESCRIPTION
CHM00060	EnviroCon, HVAC bacteriostatic deodorizer, scented, 5 gal bottle
CHM00061	EnviroCon, HVAC bacteriostatic deodorizer, unscented, 5 gal bottle
CHM00062	EnviroCon, HVAC bacteriostatic deodorizer, scented, 30 gal container
CHM00063	EnviroCon, HVAC bacteriostatic deodorizer, unscented,
CHM00064	EnviroCon, HVAC bacteriostatic deodorizer, scented, 50 gal drum
CHM00065	EnviroCon, HVAC bacteriostatic deodorizer, unscented, 50 gal drum
TOL00201	Fogger applicator

# Motors

## Diversitech Wagner motors

### Fractional Horsepower Motors

Motors



DiversiTech Corporation is North America's largest manufacturer of equipment pads and a leading manufacturer and supplier of components and related products for the heating, ventilating, air conditioning, and refrigeration (HVACR) industry.

Headquartered in the Atlanta, GA metropolitan area, DiversiTech manufactures suite of products, which includes a wide range of mechanical, electrical, chemical, and structural parts for HVACR systems. The company maintains manufacturing and distribution facilities in key U.S. locations and in the Far East. DiversiTech has enjoyed a continued history of successful growth and has acquired industry-recognized brand names including Wagner Manufacturing and Specialty Chemical.

#### COLOR PACKAGING



Bright, colorful, easy to read packaging removes confusion about motors. Additionally, the distributor can easily identify the stock of motors on the shelf. The application, voltage, and horsepower of a motor are visible at a glance.

#### INNOVATIVE PACKAGING



A unique styrofoam cradle inside the motor carton supports and protects the motor, shaft, and mounting bolts during shipment.

#### CROSS REFERENCE



For your convenience, Wagner provides a complete manufacturer cross-reference on the side of every motor carton.

#### CARTON HANDLE



The motor carton has been designed with an innovative handle to make the motors much easier to carry.

#### CAPACITOR SIZE



The appropriate size 370 VAC run capacitor is noted on every motor carton.

#### LARGER DIAGRAM



An extra large wiring diagram is supplied on the motor itself, on the motor carton, and also in the installation and safety instruction sheet. This large wiring diagram makes it very easy to read.

#### LARGE LABEL



Informative product label contains the motor model number in large type. The UPC code is also printed on every motor label.

#### EXTENDED BOLTS



Extended mounting bolts provide for easier installation in cramped spaces. With the longer bolts, the installer is able to more easily start the threaded mounting nut

#### EXTENDED WIRES



Wagner motor wires are thirty inches long. The added length makes it easier for the contractor to install the new motor.

#### WIRE STRIPPING



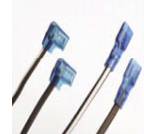
Partial stripping leaves the insulation on the motor connection wire. This protects the stranded copper wire and prevents damage to individual strands.

#### REVERSING PLUG



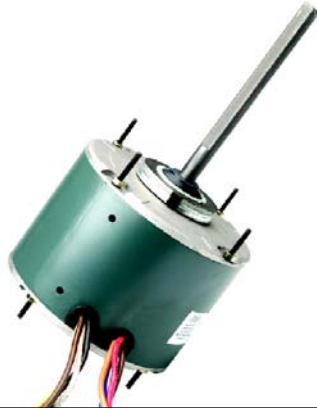
The electrical reversing plug simplifies rotation direction changes.

#### INSULATED DISCONNECTS



Run capacitor connections are insulated for increased safety. Flag disconnects on condenser fan motors and inline disconnects on direct drive furnace blower motors are provided.

**Diversitech Wagner motors**  
**Condenser Fan Motor**



SERVICEFIRST ITEM NO	HP	Voltage	Speed	370V Capacitor	Wagner	Mars	Packard	Gemline	Marathon	AO Smith	Fasco	Emerson	Smart
MOT12692	3/4	208-230	1075/1	10	WG840731	03731				FSE1076S	D929	1868	SE3731
MOT12691	1/2	208-230	1075/1	10	WG840730	03730	63130	EM3730	X221	FSE1056S	D907	1862	SE3730
MOT12690	1/3	208-230	1075/1	7.5	WG840729	03729	63129	EM3729	X214	FSE1036S	D908	1861	SE3729
MOT12649	1/4	208-230	1075/1	5	WG840728	03728	63128	EM3728	X213	FSE1026S	D909	1860	SE3728
MOT12689	1/6	208-230	1075/1	5	WG840727	03727			X411	FSE1016S	D905	1859	SE3727
MOT12686	1/6 to 1/3	208-230	1075/2		WG840465					FE6000	D2827	5462	SE3465
MOT12687	1/5 to 1/2	208-230	1075/2		WG840468					FE6002		5465	SE3468
MOT12688	1/6 to 1/3	208-230	825/2		WG840469					FE6001	D2826	5464	SE3469

**Direct Drive Furnace Blower Motor**



Multiple horsepower motors allow the contractor and distributor to consolidate multiple part codes into a single stocking unit. The multiple horsepower motor allows the contractor to carry one motor that can be used as a replacement for a wide variety of OEM and other replacement motors, saving time and money.

- All the features and benefits of standard motors
- Plus multiple horsepower
- Variety of voltages, applications, and speeds are available. Please see the sizing chart overbrief

SERVICEFIRST ITEM NO	HP	Voltage	Speed	370V Capacitor	Wagner	Mars	Gemline	Marathon	AO Smith	Fasco	Emerson	Smart
MOT12675	1	115	1075/3	20	WG840595	03595			BDL1106		8906	
MOT12676	1	208-230	1075/3	15	WG840596	03596		X023	BD1106		8907	
MOT12673	3/4	115	1075/3	15	WG840589	03589	EM3589	X009	DL1076	D728	8904	SE3589
MOT12674	3/4	208-230	1075/3	10	WG840590	03590	EM3590	X010	D1076	D729	8905	SE3590
MOT12685	1/2	115	1075/3	5	WG840587	03587	EM3587	X004	FDL1056	D701	1865	SE3587
MOT12672	1/2	208-230	1075/3	5	WG840588	03588	EM3588	X005	FD1056	D703	1973	SE3588
MOT12683	1/3	115	1075/3	5	WG840585	03585	EM3585	X002	FDL1036	D727	1864	SE3585
MOT12684	1/3	208-230	1075/3	5	WG840586	03586	EM3586	X003	FD1036	D923	1972	SE3586
MOT12681	1/4	115	1075/3	5	WG840583	03583	EM3583		FDL1026	D721	1863	SE3583
MOT12682	1/4	208-230	1075/3	5	WG840584	03584	EM3584	X001	D1026	D725	1971	SE3584
MOT12677	1/6 to 1/2	115	1075/4		WG840463				FDL6001	D2835	5460	SE3463
MOT12678	1/6 to 1/2	208-230	1075/4		WG840464				FDL6000	D833	5461	
MOT12679	1/5 to 3/4	115	1075/4		WG840466				FDL6002	D2832	5470	SE3466
MOT12680	1/5 to 3/4	208-230	1075/4		WG840467				FD6001	D2833	5471	SE3467

Mars, Packard, Gemline, Marathon, Fasco, AO Smith, and Emerson are trademarks of their respective owners. Reasonable effort has been made to assure the accuracy of cross-reference information. However, final evaluation for suitable replacement is left to the installer.

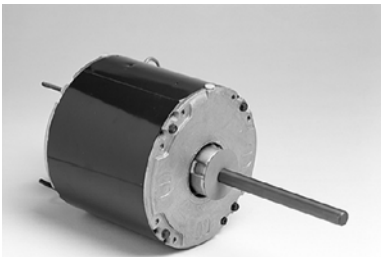
# Motors

## Emerson Wholesale Motors

### Condenser Motors Permanent Split Capacitor Motors

Totally Enclosed, Air Over 5.6" Diameter

Motors



600°C ambient design, all-angle thrust system, Class B insulation, designed for 370V capacitors, extended studs, 30" leads, hubless lead end, drain holes both ends, reversible, automatic thermal overload protector, and continuous air over.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	HP/VOLTS	RPM/SPDS	Insul Class	Max Ambient	Shaft End Bearing	Amps	Weight
MOT06035	1871	0.1 HP, 208-230 volts	825	B	60	SLEEVE	1	10 lbs
MOT06036	1872	0.125 HP, 208-230 volts	825	B	60	SLEEVE	0.78	11 lbs
MOT06037	1873	0.167 HP, 208-230 volts	825	B	6	SLEEVE	1	12 lbs
MOT10142	8673	0.167 HP, 208-230 volts	825/2	B	60	SLEEVE	1	14 lbs
MOT10143	1859	0.167 HP, 208-230 volts	1075	B	60	SAB	1	11 lbs
MOT10144	3735	0.167 HP, 460 volts	1075	B	60	BALL	0.5	10 lbs
MOT06039	1874	0.25 HP, 208-230 volts	825	B	60	SLEEVE	2	13 lbs
MOT10145	1880	0.25 HP, 460 volts	825	B	60	BALL	1	14 lbs
MOT10146	8674	0.25 HP, 208-230 volts	825/2	B	60	SLEEVE	1.5	15 lbs
MOT06038	1860	0.25 HP, 208-230 volts	1075	B	60	SLEEVE	1.7	12 lbs
MOT10147	1876	0.25 HP, 208-230 volts	1075	B	60	BALL	1.7	11 lbs
MOT10148	3736	0.25 HP, 460 volts	1075	B	60	BALL	0.8	12 lbs
MOT06043	8669	0.25 HP, 208-230 volts	1075/2	B	40	SLEEVE	1.9	12 lbs
MOT10149	1890	0.25 HP, 208-230 volts	1625	B	60	SLEEVE	1.4	12 lbs
MOT10067	1875	0.33 HP, 208-230 volts	825	B	60	SLEEVE	2.4	17 lbs
MOT10150	1881	0.33 HP, 460 volts	825	B	60	BALL	1	17 lbs
MOT10151	8675	0.33 HP, 208-230 volts	825/2	B	60	SLEEVE	2	17 lbs
MOT06040	1861	0.33 HP, 208-230 volts	1075	B	60	SLEEVE	2.1	14 lbs
MOT10153	3737	0.33 HP, 460 volts	1075	B	60	BALL	1.3	17 lbs
MOT06045	8670	0.33 HP, 208-230 volts	1075/2	B	40	SLEEVE	2.2	16 lbs
MOT10154	1891	0.33 HP, 208-230 volts	1625	B	60	SLEEVE	1.9	13 lbs
MOT10155	1882	0.5 HP, 460 volts	825	B	40	BALL	2.3	21 lbs
MOT06041	1862	0.5 HP, 208-230 volts	825	B	60	SLEEVE	3	12 lbs
MOT10157	3738	0.5 HP, 460 volts	1075	B	60	BALL	1.5	19 lbs
MOT06047	8671	0.5 HP, 208-230 volts	1075/2	B	40	SLEEVE	2.9	21 lbs
MOT10158	1892	0.5 HP, 208-230 volts	1625	B	60	SLEEVE	3	15 lbs
MOT06042	1868	0.75 HP, 208-230 volts	1075	B	60	SLEEVE	4.7	20 lbs
MOT10159	1879	0.75 HP, 208-230 volts	1075	B	60	BALL	4.7	21 lbs
MOT10160	3742	0.75 HP, 460 volts	1075	B	60	6203	2	22 lbs

**Emerson Wholesale Motors**

**Condenser Motors Permanent Split Capacitor Motors**

Open drip-proof 5.6" diameter

High-efficiency, 60Hz, capacitor mounting holes in frame band, continuous duty, air over, water slinger, designed for 370V capacitors, automatic thermal overload protector, sleeve bearings have all-angle thrust system, green ground lead, reversible, Class B insulation, extended studs are 8-32 unless otherwise noted, 30" leads, double flats on shaft, and enclosed end shield at shaft end.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	HP/VOLTS	RPM/SPDS	Insul Class	Max Ambient	Shaft End Bearing	Amps	Weight
MOT06000	8661	0.167 HP, 208-230 volts	1075	B	40	SLEEVE	1.35	10 lbs
MOT06003	8666	0.25 HP, 230 volts	825	B	40	SLEEVE	1.9	14 lbs
MOT06002	3851	0.25 HP, 208-230 volts	1075	B	60	SLEEVE	1.7	14 lbs
MOT06013	8302	0.25 HP, 230 volts	1075/2	B	40	SLEEVE	1.9	16 lbs
MOT06006	8667	0.33 HP, 230 volts	825	B	40	SLEEVE	2	16 lbs
MOT06007	6880	0.33 HP, 208-230 volts	1075	B	60	SLEEVE	2.5-2.2	12 lbs
MOT06014	8301	0.33 HP, 230 volts	1075/2	B	40	SLEEVE	2.2	15 lbs
MOT06009	3852	0.5 HP, 208-230 volts	1075	B	60	SLEEVE	3.1	15 lbs
MOT06010	1444	0.5 HP, 230 volts	1075	B	40	BALL	3.1	18 lbs
MOT06015	8348	0.5 HP, 230 volts	1075/2	B	40	BALL	3.3	19 lbs
MOT06016	9393	0.5 HP, 230 volts	1075/2	B	40	BALL	3.3	19 lbs
MOT06012	3097	0.75 HP, 208-230 volts	1075	B	40	SLEEVE	4.7	20 lbs
MOT06011	8665	0.75 HP, 230 volts	1075	B	40	BALL	4.4	23 lbs

**Resilient base, shaft up or horizontal, with capacitor—single speed**

High-efficiency, 60Hz, capacitor mounting holes in frame band, continuous duty, air over, water slinger, designed for 370V capacitors, automatic overload protector, sleeve bearings have all-angle thrust system, green ground lead, reversible, Class B insulation, extended studs are 8-32 unless otherwise noted, 20" or 30" leads, double flats on shaft, and enclosed end shield at shaft end.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	HP/VOLTS	RPM/SPDS	Insul Class	Max Ambient	Shaft End Bearing	Amps	Weight
MOT06017	3846	0.25 HP, 230 volts	1075	B	40	SLEEVE	1.9	15 lbs
MOT06018	4811	0.33 HP, 230 volts	1625	B	40	SLEEVE	1.8	16 lbs
MOT06019	4961	0.33 HP, 230 volts	1625	B	40	BALL	1.8	17 lbs
MOT06020	3847	0.33 HP, 230 volts	1075	B	40	SLEEVE	2.2	16 lbs
MOT06021	4960	0.33 HP, 230 volts	1075	B	40	BALL	2.2	16 lbs
MOT06022	3849	0.33 HP, 230 volts	825	B	40	SLEEVE	2.3	24 lbs
MOT06023	3848	0.5 HP, 230 volts	1075	B	40	SLEEVE	3.1	19 lbs
MOT06024	7025	0.5 HP, 230 volts	1075	B	40	BALL	3.1	18 lbs

# Motors

## Emerson Wholesale Motors

### Condenser Motors Permanent Split Capacitor Motors

Hub ring mount (2 1/4"), shaft up or horizontal, without capacitor—single speed

SERVICEFIRST ITEM NO	VENDOR ITEM NO	HP/VOLTS	RPM/SPDS	Insul Class	Max Ambient	Shaft End Bearing	Amps	Weight
MOT06025	8042	0.33 HP, 115 volts	825	B	40	BALL	6	12 lbs
MOT06026	5345	0.33 HP, 230 volts	825	B	40	BALL	3	19 lbs
MOT06027	7040	0.33 HP, 208-230 volts	825	B	40	BALL	2.7	18 lbs
MOT06028	7041	0.5 HP, 208-230 volts	825	B	40	BALL	2.8	21 lbs

### Shaded Pole

#### Open Drip-proof 5.0" diameter Resilient base—Single Speed

36" leads, mechanically reversible, sleeve bearings have all-angle thrust, BX connector, CW lead end, Class B insulation, continuous duty, air over, automatic thermal overload protector, connection instructions included in nameplate data, and green ground lead.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	HP/VOLTS	RPM/SPDS	Insul Class	Max Ambient	Shaft End Bearing	Amps	Weight
MOT06029	723	0.1 HP, 115 volts	1550	B	40	SELF-ALIGN	5.2	10 lbs
MOT06030	721	0.1 HP, 230 volts	1550	B	40	SELF-ALIGN	2.6	9 lbs
MOT06031	724	0.167 HP, 115 volts	1550	B	40	SLEEVE	5.4	11 lbs
MOT06032	722	0.167 HP, 230 volts	1550	B	40	SLEEVE	2.7	11 lbs

### Commercial Condenser Fan

#### Permanent Split Capacitor Totally Enclosed

5.6" Diameter—Hub Ring Mount (2 1/4")

Capacitor and outlet box included, unless noted, reversible shaft rotation, double-sealed ball bearing, continuous duty, air over, 400°C ambient, dual voltage, Class B insulation, and automatic thermal overload protector.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	HP/VOLTS	RPM/SPDS	Insul Class	Max Ambient	Shaft End Bearing	Amps	Weight
MOT06060	6838	0.25 HP, 208-230/460 volts	1075	B	40	BALL	2.0/1.0	15 lbs
MOT06061	6727	0.33 HP, 208-230/460 volts	1075	B	40	BALL	2.4/1.2	17 lbs
MOT06062	7475	0.5 HP, 208-230/460 volts	1075	B	40	BALL	2.8/1.4	20 lbs
MOT10161	2201	0.5 HP, 208-230/460 volts	1075	B	40	BALL	3.2-3.1/ 1.6	20 lbs
MOT10162	2202	0.75 HP, 208-230/460 volts	1075	B	40	BALL	4.8-4.6/ 2.3	23 lbs
MOT06064	6603	0.75 HP, 208-230/460 volts	1075	B	40	BALL	5.0/2.5	22 lbs
MOT06063	5489	0.75 HP, 208-230/460 volts	1075	B	40	BALL	5.0/2.5	22 lbs

**Commercial Condenser Fan  
Permanent Split Capacitor Totally Enclosed**

6.3" Diameter—Resilient base



SERVICEFIRST ITEM NO	VENDOR ITEM NO	HP/VOLTS	RPM/SPDS	Insul Class	Max Ambient	Shaft End Bearing	Amps	Weight
MOT06065	2686	1 HP, 208-230/460 volts	1075	B	40	BALL	5.1/2.6	38 lbs
MOT06066	2896	1 1/2 HP, 208-230/460 volts	1075	B	40	BALL	7.5/3.8	47 lbs

6.3" Diameter—Stud mount (4) Shaft side (5/8")



SERVICEFIRST ITEM NO	VENDOR ITEM NO	HP/VOLTS	RPM/SPDS	Insul Class	Max Ambient	Shaft End Bearing	Amps	Weight
MOT06067	3568	0.5 HP, 208-230 volts	825	B	40	BALL	3.6	25 lbs
MOT06068	3566	0.75 HP, 208-230 volts	1075	B	40	BALL	3.8	26 lbs
MOT06069	3567	0.75 HP, 208-230 volts	825	B	40	BALL	5.3	32 lbs
MOT06070	3565	1 HP, 208-230 volts	1075	B	40	BALL	5.2	30 lbs
MOT10163	2203	1 HP, 208-230/460 volts	1075	B	40	BALL	5.5-5.1/ 2.6	40 lbs
MOT10164	2204	1.5 HP, 208-230/460 volts	1075	B	40	BALL	8.5-7.6/ 3.8	43 lbs

**Three Phase**

Three Phase, 6.3" Diameter

Open drip-proof—rigid base mount, flat and keyway on shaft



SERVICEFIRST ITEM NO	VENDOR ITEM NO	HP/VOLTS	RPM/SPDS	Insul Class	Max Ambient	Shaft End Bearing	Amps	Weight
MOT10167	1820	1 HP, 208-230/460 volts	1140	BR	60	BALL	4.8/2.4	32 lbs
MOT10168	1821	1.5 HP, 208-230/460 volts	1140	BR	60	BALL	7.2/3.6	39 lbs
MOT10169	1822	2 HP, 208-230/460 volts	1140	B	60	BALL	7.8/3.9	45 lbs

Rigid base for belt drive, air over not needed, 400°C ambient rated open drip-proof—belt drive, quick voltage change device

SERVICEFIRST ITEM NO	VENDOR ITEM NO	HP/VOLTS	RPM/SPDS	Insul Class	Max Ambient	Shaft End Bearing	Amps	Weight
MOT06071	1813	1 HP, 208-230/460 volts	1725	B	40	BALL	3.4/1.7	24 lbs
MOT06072	1814	1.5 HP, 208-230/460 volts	1725	B	40	BALL	5.0/2.5 & 5.2/2.6	27 lbs

Shaft up condenser fans, 60°C ambient rated open drip-proof—belly band mount, flat and keyway on shaft



SERVICEFIRST ITEM NO	VENDOR ITEM NO	HP/VOLTS	RPM/SPDS	Insul Class	Max Ambient	Shaft End Bearing	Amps	Weight
MOT06076	1818	1 HP, 208-230/460 volts	1140	B	60	BALL	4.8/2.4	29 lbs
MOT06077	1819	1.5 HP, 208-230/460 volts	1140	B	60	BALL	6.4/3.2	36 lbs
MOT10165	1828	1 HP, 208-230/460 volts	850	B	60	BALL	5.0/2.5	33 lbs

# Motors

## Double-Shaft Fan and Blower

### Permanent Split-Capacitor Open Drip-proof 5.6" Diameter

Hub or stud mount, with capacitor and mounting kit

SERVICEFIRST ITEM NO	VENDOR ITEM NO	HP/VOLTS	RPM/SPDS	Insul Class	Max Ambient	Shaft End Bearing	Amps	Weight
MOT06080	1216	0.167 HP, 115 volts	1100/3	B	40	SLEEVE	3	12 lbs
MOT06081	1215	0.167 HP, 230 volts	1075/3	B	40	SLEEVE	1.5	12 lbs
MOT06097	1221	0.25 HP, 230 volts	1550/3	B	40	SLEEVE	3.4	14 lbs
MOT06083	1887	0.33 HP, 230 volts	1625/3	B	40	SLEEVE	2.2	13 lbs
MOT06085	1213	0.33 HP, 230 volts	1075/3	B	40	SLEEVE	2.5	18 lbs
MOT06087	5824	0.5 HP, 230 volts	1075/3	B	40	SLEEVE	4.5	18 lbs
MOT06086	1824	0.5 HP, 230 volts	1075/3	B	40	SLEEVE	4.5	19 lbs

Hub or stud mount, without capacitor and mounting kit

SERVICEFIRST ITEM NO	VENDOR ITEM NO	HP/VOLTS	RPM/SPDS	Insul Class	Max Ambient	Shaft End Bearing	Amps	Weight
MOT06088	3133	0.167 HP, 230 volts	1075/3	B	40	SLEEVE	1.5	12 lbs
MOT06089	3134	0.25 HP, 230 volts	1075/3	B	40	SLEEVE	2	13 lbs
MOT06090	3135	0.33 HP, 230 volts	1075/3	B	40	SLEEVE	2.5	14 lbs
MOT06091	3136	0.5 HP, 230 volts	1075/3	B	40	SLEEVE	4.5	20 lbs

Stud mount, without capacitor and mounting kit

SERVICEFIRST ITEM NO	VENDOR ITEM NO	HP/VOLTS	RPM/SPDS	Insul Class	Max Ambient	Shaft End Bearing	Weight
MOT06092	8725	0.25 HP, 230 volts	1625/3	B	40	SAB OR SLV	12 lbs
MOT06094	8726	0.33 HP, 230 volts	1625/3	B	40	SAB OR SLV	13 lbs

## Direct-Drive Fan and Blower

### Open—5.0" Diameter

Permanent split capacitor, 5.0" dia., stud or hub ring mount (2.5")

3-speed



SERVICEFIRST ITEM NO	VENDOR ITEM NO	HP/VOLTS	RPM	Insul Class	Max Ambient	Shaft End Bearing	Amps	Weight
MOT10170	1390	0.25 HP, 115 volts, 21" leads 1050/3	1050	B	40	SELF-ALIGN	2.8	13 lbs
MOT10032	1391	0.25 HP, 208-230 volts, 21" leads 1050/3	1050	B	40	SAB OR SLV	1.5	13 lbs

4-speed

SERVICEFIRST ITEM NO	VENDOR ITEM NO	HP/VOLTS	RPM	Insul Class	Max Ambient	Shaft End Bearing	Amps	Weight
MOT06107	1268	0.2 HP, 115 volts	1075	B	40	SLEEVE	3.4	10 lbs



**Direct-Drive Fan and Blower**

**Open—5.0" Diameter**

**Rescue Motors**

*Condenser Fan Motor*



SERVICEFIRST ITEM NO	VENDOR ITEM NO	HP/VOLTS	RPM/SPDS	Max Ambient	Amps	Weight
MOT09987	5462	0.333/0.167 HP, 208-230 volts	1075/2	40	2.6	15 lbs
MOT11099	5464	0.333/0.167 HP, 208-230 volts	825/2	60	1.9/1.2	18 lbs
MOT11100	5465	0.5/0.2 HP, 208-230 volts	1075/2	60	3.0/1.3	19 lbs

*Direct Drive*



SERVICEFIRST ITEM NO	VENDOR ITEM NO	HP/VOLTS	RPM/SPDS	Insul Class	Max Ambient	Shaft End Bearing	Amps	Weight
MOT09985	5460	0.5 HP, 115 volts	1075/4	B	40	SAB OR SLV	7.3	17 lbs
MOT09986	5461	0.5, 208-230 volts	1075/4	B	40	SAB OR SLV	3.6	17 lbs
MOT10274	5470	0.75 HP, 115 volts	1075/4	B	40	BALL	8.1	21 lbs
MOT10275	5471	0.75 HP, 208-230 volts	1075/4	B	40	BALL	3.8	21 lbs

**Shaded pole, 5.0" diameter, hub ring mount (2.5")**

*3-speed*



SERVICEFIRST ITEM NO	VENDOR ITEM NO	HP/VOLTS	RPM/SPDS	Insul Class	Max Ambient	Shaft End Bearing	Amps	Weight
MOT06140	985	0.1 HP, 115 volts, 21" leads	1050	B	40	SLEEVE	3.5	7 lbs

*Single-speed*



SERVICEFIRST ITEM NO	VENDOR ITEM NO	HP/VOLTS	RPM/SPDS	Insul Class	Max Ambient	Shaft End Bearing	Amps	Weight
MOT06138	1127	0.167 HP, 115 volts, 21" leads	1050	B	40	SLEEVE	6	12 lbs
MOT06139	1631	0.167 HP, 230 volts, 21" leads	1050	A	40	SELF-ALIGN	3	12 lbs

**Open—5.0" Diameter.**

**Permanent split-capacitor, 5.0" dia., stud or hub ring mount (2.5") Multi-horsepower**



SERVICEFIRST ITEM NO	VENDOR ITEM NO	HP/VOLTS	RPM/SPDS	Insul Class	Max Ambient	Shaft End Bearing	Amps	Weight
MOT09985	5460	0.5 HP, 115 volts	1075	B	40	SAB OR SLV	7.3	17 lbs
MOT09986	5461	0.5 HP, 208-230 volts, diameter 5.6", amps 3.6, Wt. 16 lbs.	1075/4	B	40	SAB OR SLV	3.6	17 lbs
MOT10274	5470	0.75, 115 volts, diameter 5.6"	1075/4	B	40	BALL	8.1	21 lbs
MOT10275	5471	3/4 to 1/5 HP, 208/230 volts, diameter 5.6"	1075/4					

# Motors

## Direct-Drive Fan and Blower

Open—5.6" diameter

Hub Ring Mount (2.5"), without Capacitor

Motors



SERVICEFIRST ITEM NO	VENDOR ITEM NO	HP/VOLTS	RPM/SPDS	Max Ambient	Amps	Weight
MOT06105	8891	0.167 HP, 115 volts	1075/3	40	2.2	11 lbs
MOT06106	8896	0.167HP, 208-230 volts	1075/3	40	1.1-1.0	10 lbs
MOT06108	8892	0.25 HP,115 Volts	1075/3	40	3.8	14 lbs
MOT06109	1863	0.25 HP, 115 volts	1075/3	40	3.9	12 lbs
MOT10171	1690	0.25 HP, 115 volts	1625/3	40	2.7	13 lbs
MOT06110	1971	0.25 HP, 208-230 volts	1075/3	40	1.8	11 lbs
MOT06112	600	0.25 HP, 277 volts	1075/3	40	1.6	14 lbs
MOT10172	1691	0.25 HP, 208-230 volts	1625/3	40	1.5-1.4	12 lbs
MOT06114	1864	0.33 HP, 115 volts	1075/3	40	5	12 lbs
MOT10173	1692	0.33 HP, 115 volts	1625/3	40	3.7	13 lbs
MOT06115	1972	0.33 HP, 208-230 volts	1075/3	40	2.4	13 lbs
MOT06117	601	0.33 HP, 277 volts	1075/3	40	2.2	14 lbs
MOT10174	1693	0.33 HP, 208-230 volts	1625/3	40	2.2-2.1	13 lbs
MOT06119	1865	0.5 HP, 115 volts	1625/3	40	7.4	19 lbs
MOT10175	1694	0.5 HP, 115 volts	1075/3	40	5.5	17 lbs
MOT06120	1973	0.5 HP, 208-230 volts	1075/3	40	3.3	19 lbs
MOT06122	602	0.5 HP, 277 volts	1075/3	40	3.4	16 lbs
MOT10176	1695	0.5 HP, 208-230 volts	1625/3	40	3.1-3.0	17 lbs
MOT10177	1696	0.75 HP, 115 volts	1625/3	40	8.6	20 lbs
MOT10178	1697	0.75 HP, 208-230 volts	1075/3	40	4.4-4.2	18 lbs
MOT09415	8904	0.75 HP, 115 volts	1075/3	40	9.1	19 lbs
MOT09416	8905	0.75 HP, 208-230 volts	1075/3	40	4.6	19 lbs
MOT10179	8906	1 HP, 115 volts	1075/3	40	12.1	20 lbs
MOT10180	8907	1 HP, 208-230 volts	1075/3	40	6.5 - 5.6	21 lbs

Stud or hub ring mount (2.5") with capacitor

2-speed



SERVICEFIRST ITEM NO	VENDOR ITEM NO	HP/VOLTS	RPM/SPDS	Insul Class	Max Ambient	Shaft End Bearing	Amps	Weight
MOT06126	3183	0.5 HP, 208-230 volts	825/2	B	40	SLEEVE	3.9	23 lbs

**Direct-Drive Fan and Blower**

Open—5.6" diameter

Stud or hub ring mount (2.5") with capacitor

3-speed

SERVICEFIRST ITEM NO	VENDOR ITEM NO	HP/VOLTS	RPM/SPDS	Insul Class	Max Ambient	Shaft End Bearing	Amps	Weight
MOT10181	1222	0.25 HP, 115 volts	1075/3	B	0	SELF-ALIGN	4	12 lbs
MOT06128	2482	0.33 HP, 115 volts	1075/3	B	40	SLEEVE	5.5	14 lbs
MOT06129	2483	0.33 HP, 208-230 volts	1075/3	B	40	SLEEVE	2.3-2.2	14 lbs
MOT06130	3235	0.5 HP, 115 volts	1075/3	B	40	SLEEVE	7.1	18 lbs
MOT06131	6612	0.5 HP, 208-230	1075/3	B	40	SLEEVE	3.3-3.1	16 lbs

4-speed

SERVICEFIRST ITEM NO	VENDOR ITEM NO	HP/VOLTS	RPM/SPDS	Insul Class	Max Ambient	Shaft End Bearing	Amps	Weight
MOT06132	3741	0.25 HP, 115 volts	1075/4	B	40	SLEEVE	3.8	14 lbs
MOT10182	1223	0.33 HP, 115 volts	1075/4	B	40	SLEEVE	4.6	12 lbs
MOT06133	3843	0.33 HP, 115 volts	1075/4	B	40	SLEEVE	4.6	12 lbs
MOT10183	1224	0.5 HP, 115 volts	1075/4	B	40	SLEEVE	7.1	18 lbs
MOT06135	3844	0.5 HP, 115 volts	1075/4	B	40	SLEEVE	7.1	18 lbs
MOT06134	807	0.5 HP, 115 volts	1075/4	B	40	SLEEVE	7.1	18 lbs
MOT06136	7023	0.75 HP, 115 volts	1075/4	B	40	SLEEVE	10.6	18 lbs
MOT06137	3845	0.75 HP, 115 volts	1075/4	B	40	SLEEVE	10.6	18 lbs

Single-speed



SERVICEFIRST ITEM NO	VENDOR ITEM NO	HP/VOLTS	RPM/SPDS	Insul Class	Max Ambient	Shaft End Bearing	Amps	Weight
MOT06125	6873	0.33 HP, 208-230 volts	825	B	40	BALL	2.7	17 lbs

Split phase 6.3" diameter

C-face NEMA mount, open drip-proof

SERVICEFIRST ITEM NO	VENDOR ITEM NO	HP/VOLTS	RPM/SPDS	Insul Class	Max Ambient	Shaft End Bearing	Amps	Weight
MOT10187	1204	0 HP	850		0			24 lbs
MOT10188	1205	0.125 HP, 115 volts	850	B	40	6203	4.6	24 lbs
MOT10189	1206	0.167 HP, 115 volts	850	B	40	BALL	5.6	25 lbs
MOT10190	1207	0.25 HP, 115 volts	850	B	40	BAL	6.9	30 lbs
MOT10191	1208	0.33 HP, 115 volts	850	B	40	BALL	9	40 lbs

# Motors

## Direct-Drive Fan and Blower

Split phase 6.3" diameter

Resilient base, totally enclosed, air over

Single-speed

SERVICEFIRST ITEM NO	VENDOR ITEM NO	HP/VOLTS	RPM/SPDS	Insul Class	Max Ambient	Shaft End Bearing	Amps	Weight
MOT10184	6326	0.25 HP, 115 volts	1725	B	40	BALL	5	18 lbs
MOT10185	6328	0.33 HP, 115 volts	1725	B	40	BALL	5.4	21 lbs
MOT10186	6330	0.5 HP, 115 volts	1725	B	40	BALL	7.4	21 lbs

## Unit Heater Fan 5.6" and 6.3" Dia.

Permanent Split-Capacitor Totally Enclosed 5.6" and 6.3" Diameter

Resilient Base, 6.3" Diameter

2-Speed

SERVICEFIRST ITEM NO	VENDOR ITEM NO	HP/VOLTS	RPM/SPDS	Insul Class	Max Ambient	Shaft End Bearing	Amps	Weight
MOT06201	1810	0.5 HP, 230 volts	1075/2	B	40	BALL	2.5	26 lbs
MOT06202	1811	0.75 HP, 230 volts	1075/2	B	40	BALL	3.7	34 lbs

2-Speed

SERVICEFIRST ITEM NO	VENDOR ITEM NO	HP/VOLTS	RPM/SPDS	Insul Class	Max Ambient	Shaft End Bearing	Amps	Weight
MOT06198	4856	0.167 HP, 115 volts	1075/2	B	40	BALL	2.4	12 lbs
MOT06200	4855	0.33 HP, 230 volts	1075/2	B	40	BALL	2.4	14 lbs

## Stud Mount, 5.6" Diameter

Single-speed



SERVICEFIRST ITEM NO	VENDOR ITEM NO	HP/VOLTS	RPM/SPDS	Insul Class	Max Ambient	Shaft End Bearing	Amps	Weight
MOT06195	9034	0.167 HP, 115 volts	1075	B	40	BALL	2.6	12 lbs
MOT06196	9035	0.25 HP, 115 volts	1075	B	40	BALL	3.6	15 lbs
MOT06197	9036	0.33 HP, 115 volts	1075	B	40	BALL	5.1	15 lbs

## Belted Fan and Blower-Open Drip-Proof

Split phase Open drip-proof—resilient base

Two Speed (NEMA 48 frame)

SERVICEFIRST ITEM NO	VENDOR ITEM NO	HP/VOLTS	RPM/SPDS
MOT06157	1786	0.333/0.111 HP, 115 volts	1725/1140
MOT06158	1789	1/3 HP, 230 volts	1725/1140

Two Speed (NEMA 56 frame)

SERVICEFIRST ITEM NO	VENDOR ITEM NO	HP/VOLTS	RPM/SPDS	Insul Class	Max Ambient	Shaft End Bearing	Amps	Weight
MOT10192	5792C	0.25 HP, 115 volts	1725/1140	B	40	SLEEVE	5.1/2.5	18 lbs
MOT10193	5793C	0.33 HP, 115 volts	1725/1140	B	40	SLEEVE	6.4/4.0	19 lbs
MOT10194	5794C	0.5/0.167 HP, 115 volts	1725/1140	B	40	SLEEVE	8.7/5.1	25 lbs
MOT06169	4293	0.5 HP, 115 volts	1725/1140	A	40	SLEEVE	9.2/6.0	26 lbs
MOT06170	4293H	0.5 HP, 230 volts	1725/1140	A	40	SLEEVE	4.6	26 lbs
MOT10195	5795C	0.75 HP, 115 volts	1725/1140	B	0	SLEEVE	11.5/6.4	23 lbs

**Belted Fan and Blower-Open Drip-Proof**

**Split phase Open drip-proof—resilient base**

**Capacitor Start Open drip-proof—resilient base—single-speed**

400°C ambient, NEMA dimensions, Class A insulation, reversible rotation by easy reconnection, suitable for all-angle operation, automatic thermal overload protector, NEMA service factors, threaded conduit hole (except 299), and dual voltage easily changed by reconnection.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	HP/VOLTS	RPM/SPDS	Insul Class	Max Ambient	Shaft End Bearing	Amps	Weight
MOT06181	179	1/4 HP, 115 volts	1725					
MOT06182	180	0.33 HP, 115/208-230 volts	1725	B	0	SLEEVE	6.0/3.0	20 lbs
MOT06183	298	0.5HP, 115/208-230 volts	3450	A	40	SLEEVE	8.6/4.3	16 lbs
MOT06184	1790	0.5 HP, 115/208-230 volts	1725	A	40	SLEEVE	9.2/4.6	22 lbs
MOT06185	430	0.75 HP, 115/208-230 volts	3450	A	0	SLEEVE	9.2/4.6	22 lbs
MOT06186	1893	0.75 HP, 115/208-230 volts	1725	B	40	SLEEVE	11.4/5.7	27 lbs
MOT06187	431	1 HP, 115/208-230 volts	3450	A	40	SLEEVE	11.6/5.8	22 lbs
MOT10196	3187C	1 HP, 115/230 volts	1725	B	40	SLEEVE	14.0/7.0	29 lbs
MOT06141	839	0.167 HP, 115 volts	1725	B	40	SLEEVE	3.5	16 lbs
MOT06144	8000	0.25 HP, 115 volts	1725	B	40	SLEEVE	5.3	13 lbs
MOT06188	1769	1 HP, 115/208-230 volts	1725	B	40	SLEEVE	14.0/7.0	30 lbs
MOT06189	299	1½ HP, 115/230 volts	3450	B	40	6203	17.2/9.0	29 lbs
MOT06190	4242	1.5 HP, 115/208-230 volts	1725	B	0	BALL	N/A	30 lbs

**Single Speed (NEMA 48 frame)**

SERVICEFIRST ITEM NO	VENDOR ITEM NO	HP/VOLTS	RPM/SPDS	Insul Class	Max Ambient	Shaft End Bearing	Amps	Weight
MOT06141	839	0.167 HP, 115 volts	1725	B	40	SLEEVE	3.5	16 lbs
MOT06144	8000	0.25 HP, 115 volts	1725	B	40	SLEEVE	5.3	13 lbs
MOT10247	840CV	0.25 HP, 115 volts	1725	B	40	SLEEVE	5.3	16 lbs
MOT06142	936	0.25 HP, 115 volts	1725	B	40	SLEEVE	4.4	14 lbs
MOT06145	2889	0.25 HP, 115 volts	1725	A	0	BALL	0	21 lbs
MOT06149	8100	0.33 HP, 115 volts	1725	B	40	SLEEVE	6.4	15 lbs
MOT10248	841CV	0.33 HP, 115 volts	1725	B	40	SLEEVE	6.4	18 lbs
MOT06150	2888	0.33 HP, 115 volts	1725	A	40	BALL	5.4	18 lbs
MOT06151	8412	0.33 HP, 230 volts	1725	B	40	SLEEVE	2.7	19 lbs
MOT06153	8200	1/2 HP, 115 volts	1725	B	40	SLEEVE	8.7	18 lbs
MOT06154	2887	0.5 HP, 115 volts	1725	A	40	BALL	7.8	21 lbs
MOT06155	2695	0.5 HP, 115/230 volts	1725	B	40	SLEEVE	7.8/3.9	20 lbs

# Motors

## Belted Fan and Blower-Open Drip-Proof

### Split phase Open drip-proof—resilient base

#### Single Speed (NEMA 48/56 frame)

48 frame diameter motor on NEMA 56 base, includes shaft adapter for conversion to 5/8" shaft, 3 1/2" shaft height, reversible.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	HP/VOLTS	RPM/SPDS	Insul Class	Max Ambient	Shaft End Bearing	Amps	Weight
MOT06171	1194	0.25 HP, 115 volts	1725	B	40	SLEEVE	4.4	16 lbs
MOT06172	1193	0.33 HP, 115 volts	1725	B	40	SLEEVE	5.4	18 lbs

#### Single Speed (NEMA 56 frame)

SERVICEFIRST ITEM NO	VENDOR ITEM NO	HP/VOLTS	RPM/SPDS	Insul Class	Max Ambient	Shaft End Bearing	Amps	Weight
MOT06162	4253	0.33 HP, 115 volts	1725	A	40	SLEEVE	5.8	18 lbs
MOT06164	3957	0.5 HP, 115 volts	1725	A	40	SLEEVE	8	22 lbs
MOT06166	4114	0.5 HP, 115/230 volts	1725	B	0	SLEEVE	8.0/4.0	22 lbs
MOT06167	3958	0.75 HP, 115 volts, class B insulation	1725	B	40	SLEEVE	11.2	25 lbs
MOT06168	4115	0.75 HP, 115/230 volts, class B insulation	1725	B	40	SLEEVE	11.2/5.6	24 lbs

#### Single Speed, dual base



48 frame diameter motor supplied with both 56 and 48 frame bases, includes shaft adapter for conversion to 5/8" shaft, reversible.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	HP/VOLTS	RPM/SPDS	Insul Class	Max Ambient	Shaft End Bearing	Amps	Weight
MOT06173	2758	0.25 HP, 115 volts	1725	A	0	SLEEVE	4.4	16 lbs
MOT06174	2759	0.33 HP, 115 volts	1725	A	40	SLEEVE	5.4	19 lbs
MOT06175	3022	0.5 HP, 115/230 volts	1725	A	40	SLEEVE	7.8/3.9	22 lbs

#### Single Speed, EZ-fit, base not included



Extra long hub with sliding hub ring at terminal end. Adjusts to most base lengths, includes shaft adapter for conversion to 5/8" shaft, and additional expanding metal outer rings allow fit to either 2 1/4" for 2 1/2" diameter mounting.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	HP/VOLTS	RPM/SPDS	Insul Class	Max Ambient	Shaft End Bearing	Amps	Weight
MOT06178	3863	0.25 HP, 115 volts	1725	B	40	SLEEVE	5.6	12 lbs
MOT06179	3864	0.33 HP, 115 volts	1725	B	40	SLEEVE	5.3	15 lbs
MOT06180	3865	0.5 HP, 115 volts	1725	A	40	SLEEVE	1.25	18 lbs

## Oil Burner - Split Phase

### Totally Enclosed When Mounted

#### Flange-mounted, totally enclosed, non-ventilated when mounted Single-speed

SERVICEFIRST ITEM NO	VENDOR ITEM NO	HP/VOLTS	RPM/SPDS	Insul Class	Max Ambient	Shaft End Bearing	Amps	Weight
MOT06244	1981	0.125 HP, 115 volts	3450	B	40	SLEEVE	2.35	21 lbs
MOT06245	2097	0.125 HP, 115 volts	3450	B	40	SLEEVE	2.35	11 lbs
MOT06246	3196	0.125 HP, 115 volts	1725	B	40	SLEEVE	2.4	14 lbs
MOT06248	3083	0.143 HP, 115 volts	3450	B	40	SLEEVE	2.4	11 lbs
MOT10198	3252	0.167 HP, 115 volts	1725	B	40	SLEEVE	3.1	15 lbs
MOT06250	2302	0.25 HP, 115 volts	3450	B	40	SLEEVE	3.7	15 lbs
MOT06253	3580	0.33 HP, 115 volts	1725	B	0	SLEEVE	N/A	25 lbs

### Oil Burner - Split Phase

Totally Enclosed When Mounted

Lennox Furce

SERVICEFIRST ITEM NO	VENDOR ITEM NO	HP/VOLTS	RPM/SPDS	Insul Class	Max Ambient	Shaft End Bearing	Amps	Weight
MOT06254	3251	0.167 HP, 115 volts	1725	B	40	SLEEVE	3.4	14 lbs

OEM direct replacement Beckett, Carlin, Ducane, Wayne Home

SERVICEFIRST ITEM NO	VENDOR ITEM NO	HP/VOLTS	RPM/SPDS	Insul Class	Max Ambient	Shaft End Bearing	Amps	Weight
MOT06255	5866	0.143 HP, 115 volts, nonreversible	3450	B	40	SLEEVE	2.3	10 lbs
MOT10197	2808	0.2 HP, 115 volts, nonreversible	3450	B	40	SELF-ALIGN	3.2	15 lbs

### Hot Water Circulating Pump

Split Phase-Open Drip-proof

Hub-mounted motors to fit existing bases

Single-speed



SERVICEFIRST ITEM NO	VENDOR ITEM NO	HP/VOLTS	RPM/SPDS	Insul Class	Max Ambient	Shaft End Bearing	Amps	Weight
MOT06336	3640	0.083 HP, 115 volts	1725	B	40	SLEEVE	2.9	8 lbs
MOT06337	3740	0.167 HP, 115 volts	1725	B	40	SLEEVE	2.9	18 lbs
MOT06339	2777	0.167 HP, 115 volts	1725	B	40	SLEEVE	3.5	14 lbs
MOT06338	2762	0.167 HP, 115 volts	1725	A	40	SLEEVE	3.5	21 lbs

Red motor with bracket to replace Bell and Gossett 1/12 and 1/8 HP motors

Single-speed

SERVICEFIRST ITEM NO	VENDOR ITEM NO	HP/VOLTS	RPM/SPDS	Insul Class	Max Ambient	Shaft End Bearing	Amps	Weight
MOT06340	2736	0.125 HP, 115 volts	1725	B	40	SLEEVE	2.7	12 lbs

**Motors**

**Evaporative Cooler**

**Split Phase-6.3" Diameter—Open Drip-Proof**

Hub mount

2-speed

Motors

SERVICEFIRST ITEM NO	VENDOR ITEM NO	HP/VOLTS	RPM/SPDS	Insul Class	Max Ambient	Shaft End Bearing	Amps	Weight
MOT10207	7097	0.333/0.167 HP, 115 volts	1725/1140	B	0	SLEEVE	6.6	17 lbs
MOT10208	6767	0.333/0.111 HP, 115 volts	1725/1140	B	40	SLEEVE	5.9/3.7	17 lbs
MOT10209	7098	0.5 HP, 115 volts	1725/1140	B	40	SLEEVE	8.2	19 lbs
MOT10210	6765	0.5 HP, 115 volts	1725/1140	B	0	SLEEVE	N/A	16 lbs
MOT10211	6795	0.5 HP, 230 volts	1725/1140	B	40	SLEEVE	4.5	19 lbs
MOT10212	7099	0.75/0.25 HP, 115 volts	1725/1140	B	40	SLEEVE	10.9	19 lbs
MOT10213	6770	0.75 HP, 115 volts	1725/1140	B	0	SAB/SLEEVE	N/A	18 lbs
MOT10214	6796	0.75/0.25 HP, 230 volts	1725/1140	B	40	SLEEVE	5.5	19 lbs
MOT06212	2574	1/0.33 HP, 115 volts	1725/1140	B	40	SLEEVE	12.4/6.1	35 lbs
MOT06213	2423	1/0.33 HP, 230 volts	1725/1140	B	40	BALL	7.0/3.7	34 lbs

Hub mount

Single-speed



SERVICEFIRST ITEM NO	VENDOR ITEM NO	HP/VOLTS	RPM/SPDS	Insul Class	Max Ambient	Shaft End Bearing	Amps	Weight
MOT10199	7094	0.33 HP, 115 volts	1725	B	0	SLEEVE	6.2	15 lbs
MOT10200	6764	0.33 HP, 115 volts	1725	B	40	SLEEVE	5.6	14 lbs
MOT10201	7095	0.5 HP, 115 volts	1725	B	40	SLEEVE	8.4	17 lbs
MOT10202	6768	0.5 HP, 115 volts	1725	B	40	SLEEVE	8.2	15 lbs
MOT10203	6766	0.5 HP, 230 volts	1725	B	40	SLEEVE	4.8	19 lbs
MOT10204	7096	0.75 HP, 115 volts	1725	B	40	SLEEVE	11.7	19 lbs
MOT10205	6769	0.75 HP, 115 volts	1725	B	40	SLEEVE	10.5	18 lbs
MOT10206	6771	0.75 HP, 230 volts	1725	B	40	SLEEVE	5.4	20 lbs
MOT06207	5149	1 HP, 115/230 volts	1725	B	40	BALL	15.1/7.5	27 lbs

**Fan and Blower**

**3.3" diameter—open, air over—shaded pole**

Stud mount, (2), both ends 2-speed, stud mount, (4), both ends

SERVICEFIRST ITEM NO	VENDOR ITEM NO	HP/VOLTS	RPM/SPDS
MOT06229	865	1/30 HP, 115 volts	1550/2

Stud mount, (2), both ends 2-speed, wall furce, double end shaft

SERVICEFIRST ITEM NO	VENDOR ITEM NO	HP/VOLTS	RPM/SPDS	Insul Class	Max Ambient	Shaft End Bearing	Amps	Weight
MOT06228	1548	0 HP, N/A	0	N/A	0	N/A	N/A	4 lbs

Stud mount, (2), both ends 3-speed, room A/C, double end shaft, 30" leads

SERVICEFIRST ITEM NO	VENDOR ITEM NO	HP/VOLTS	RPM/SPDS
MOT06230	2569	1/15 HP, 115 volts	1550/3



**Fan and Blower**

**3.3" diameter—open, air over—shaded pole**

Stud mount, (2), both ends

Single-speed

SERVICEFIRST ITEM NO	VENDOR ITEM NO	HP/VOLTS	RPM/SPDS
MOT06219	3801	1/100 HP, 115 volts	1550
MOT06232	3813	1/100 HP, 115 volts	1550
MOT06225	3808	1/70 HP, 115 volts	1550
MOT06220	3802	1/70 HP, 115 volts	1550
MOT06234	3814	1/70 HP, 115 volts	1550
MOT06227	3809	1/40 HP, 115 volts	1550
MOT06221	3803	1/40 HP, 115 volts	1550
MOT06236	3815	1/40 HP, 115 volts	1550

**21 Frame Replacement**

**5.0" diameter—open drip-proof—shaded pole**

Hub mount bracket (2¼")

SERVICEFIRST ITEM NO	VENDOR ITEM NO	HP/VOLTS	RPM/SPDS	Insul Class	Max Ambient	Shaft End Bearing	Amps	Weight
MOT06240	1468	0.05 HP, 115/208-230 volts	1550	B	0	SLEEVE	2.2/1.1	7 lbs
MOT06241	1469	0.067 HP, 115/208-230 volts	1550	B	0	SLEEVE	N/A	7 lbs
MOT06242	1470	0.1 HP, 115/208-230 volts	1550	B	40	SLEEVE	3.8/1.9	7 lbs
MOT06243	1471	0.1 HP, 115/208-230 volts	1050	B	40	SLEEVE	4.3/2.15	7 lbs

**Blower Motors**

Three Phase



SERVICEFIRST ITEM NO	HP/VOLTS	VOLTS/HZ/PHASE	RPM/SPDS
MOT03893	5 HP	575/60/3	3450
MOT02914	1 HP	575/60/1	1725
MOT06633	0.6 HP	575/60/1	825
MOT04760	¾ HP	575/60/1	1040
MOT03080	2 HP	200-230/460/60/3	3450
MOT03082	5 HP	200-230/460/50-60/3	3450
MOT01252	3 HP	575/60/3	3450
MOT09800	3 HP	575/60/3	1740

**PSC Motors**

SERVICEFIRST ITEM NO	HP/VOLTS	VOLTS/HZ/PHASE	RPM/SPDS
MOT08425	1/37 HP	115/60/1	1060/3
MOT08426	1/31 HP	115/60/1	1060/3
MOT08420	1/37 HP	115/60/1	1060/3
MOT08428	1/6 HP	115/60/1	1550/3

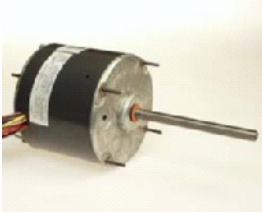
Motors

GE Wholesale Motors

AC Motors

Air Moving Motors

Motors



FEATURES:

- Energy Saver (ES) and standard efficiency designs
- Sleeve or ball bearings
- 26" motor leads
- Water slinger on shaft
- 6" shaft extension with 2 flats 90° apart
- Mounting holes in shell for capacitor bracket
- Designed for 370 Volt capacitor (not furnished)
- Automatic thermal overload protection

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Application	Phase	Speeds	RPM	Volts	Hertz	Bearings	Weight
MOT10140	3739	Condenser Fan and Heat Pump	Single Phase	1	1075	460	60	Ball	24



FEATURES:

- Sleeve or ball bearings
- Reversible rotation
- 48Y frames have mounting holes for both 48 and 56 frame

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Application	Phase	Speeds	RPM	Volts	Hertz	Bearings	Weight
MOT11523	4706	Furnace Blower, Belt Drive	Single Phase	1	1725	115	60	Slv	14



FEATURES:

- Sleeve or ball bearings
- Reversible rotation
- 48Y frames have mounting holes for both 48 and 56 frame

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Application	Phase	Speeds	RPM	Volts	Hertz	Bearings	Weight
MOT11522	4708	Furnace Blower, Belt Drive	Single Phase	1	1725	115	60	Slv	17



FEATURES:

- Ball bearings
- Reversible rotation
- Optional extended clamp bolts
- Moderate starting torque

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Application	Phase	Speeds	RPM	Volts	Hertz	Bearings	Weight
MOT03300	5KC38NN413X	Fan & Blower	Single Phase	1	3450	115/208-230	60	Ball	18



FEATURES:

- Ball bearings
- Reversible rotation
- Optional extended clamp bolts
- Moderate starting torque

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Application	Phase	Speeds	RPM	Volts	Hertz	Bearings	Weight
MOT02296	5KCR49RN2148T Cat C1161	Fan & Blower	Single Phase	1	3450	115/208-230	60	Ball	33

**GE Wholesale Motors**

**AC Motors**

**Air Moving Motors**



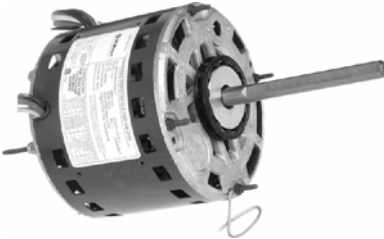
- FEATURES:**
- Ball bearings
  - Reversible rotation
  - Optional extended clamp bolts
  - Moderate starting torque

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Application	Phase	Speeds	RPM	Volts	Hertz	Bearings	Weight
MOT04054	C289	Fan & Blower	Single Phase	1	1725	115/230	60	Ball	21

**Chameleon Motors**

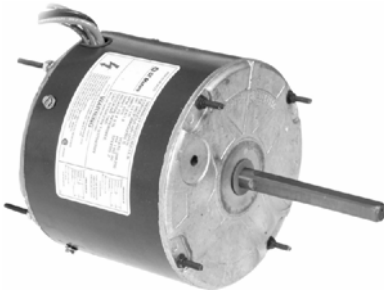
**Multi-HP Direct Drive Blower Motors – 5.6" Diameter**

*1/2 HP Direct Drive Motors*



SERVICEFIRST ITEM NO	VENDOR ITEM NO	Volts	RPM	HP	Speed	ROT	Single Shift	CAP
MOT11725	3463*	115	1075	1/2 (max)	4-speed	Rev.	.50" dia., 5.00" length w/4.0" flat	Multi
MOT11726	3464**	208-230	1075	1/2 (max)	4-speed	Rev.	.50" dia., 5.00" length w/4.0" flat	Multi

*3/4 HP Direct Drive Motors*



SERVICEFIRST ITEM NO	VENDOR ITEM NO	Volts	RPM	HP	Speed	ROT	Single Shift	CAP
MOT11728	3466*	115	1075	3/4 (max)	4-speed	Rev.	.50" dia., 5.00" length w/4.0" flat	Multi
MOT11729	3467**	208-230	1075	3/4 (max)	4-speed	Rev.	.50" dia., 5.00" length w/4.0" flat	Multi

# Motors

## GE Wholesale Motors

### Condenser Fan Motors

PSC, totally enclosed, 48 frame

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Volts	RPM	HP	Bearing	Capacitor	Item No
MOT10130	3203	208-230	825	1/6	Ball	5/370	CPT01110
MOT10141	3727	208-230	1075	1/6	Sleeve	5/370	CPT01110
MOT10131	3204	208-230	825	1/4	Ball	7.5/370	CPT01112
MOT07961	3728	208-230	1075	1/4	Sleeve	5/370	CPT01110
MOT10133	3732	208-230	1075	1/4	Ball	5/370	CPT01110
MOT10137	3736	460	1075	1/4	Ball	7.5/370	CPT01112
MOT10132	3205	208-230	825	1/3	Ball	10/370	CPT01113
MOT07962	3729	208-230	1075	1/3	Sleeve	7.5/370	CPT01112
MOT10134	3733	208-230	1075	1/3	Ball	7.5/370	CPT01112
MOT10138	3737	460	1075	1/3	Ball	7.5/370	CPT01112
MOT07963	3730	208-230	1075	1/2	Sleeve	10/370	CPT01113
MOT10135	3734	208-230	1075	1/2	Ball	10/370	CPT01113
MOT10139	3738	460	1075	1/2	Ball	10/370	CPT01113
MOT07964	3731	208-230	1075	3/4	Sleeve	15/370	CPT01115
MOT10136	3735	208-230	1075	3/4	Ball	10/370	CPT01113

### Direct Drive Motors

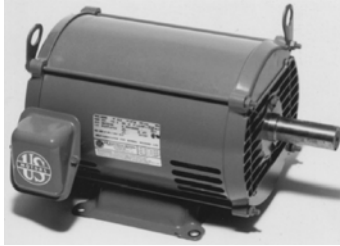
PSC, three speed blower motors, 48 frame

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Volts	RPM	HP	Bearing	Capacitor	Item No
MOT07965	3583	115	1075	1/4	Sleeve	5/370	CPT01110
MOT07966	3584	208-230	1075	1/4	Sleeve	5/370	CPT01110
MOT07967	3585	115	1075	1/3	Sleeve	5/370	CPT01110
MOT07968	3586	208-230	1075	1/3	Sleeve	5/370	CPT01110
MOT07969	3587	115	1075	1/2	Sleeve	5/370	CPT01110
MOT07970	3588	208-230	1075	1/2	Sleeve	5/370	CPT01110
MOT07971	3589	115	1075	3/4	Sleeve	15/370	CPT01115
MOT07972	3590	208-230	1075	3/4	Sleeve	10/370	CPT01113

**Integral Horsepower Motors by US Motors**

**General Purpose Three Phase**

Open Drip-proof EPACK Energy Efficient, 1800 rpm



SERVICEFIRST ITEM NO	SERVICEFIRST ITEM NO F2	HP	Volts	Frame	Efficiency Full Load	Power Factor Full Load	Shipping Weight	50Hz Capable
MOT10573	MOT10621	1	200	143T	82.5	75.8	35	
MOT10589	MOT10637	1	208-230/460	143T	82.5	75.9	35	Yes
MOT10605	MOT10653	1	575	143T	82.5	75.7	35	
MOT10574	MOT10622	1½	200	145T	84	77	40	
MOT10590	MOT10638	1½	208-230/460	145T	84	76.6	40	Yes
MOT10606	MOT10654	1½	575	145T	84	75.4	40	
MOT10575	MOT10623	2	200	145T	84	74.4	45	
MOT10591	MOT10639	2	208-230/460	145T	84	75.4	45	Yes
MOT10607	MOT10655	2	575	145T	84	75.5	45	
MOT10576	MOT10624	3	200	182T	86.5	78	50	
MOT10592	MOT10640	3	208-230/460	182T	86.5	78	50	Yes
MOT10608	MOT10656	3	575	182T	86.5	77.3	50	
MOT10577	MOT10625	5	200	184T	87.5	83	60	
MOT10593	MOT10641	5	208-230/460	184T	87.5	82.9	60	Yes
MOT10609	MOT10657	5	575	184T	87.5	82.9	60	
MOT10578	MOT10626	7½	200	213T	88.5	83.2	90	
MOT10594	MOT10642	7½	208-230/460	213T	88.5	82.7	90	Yes
MOT10610	MOT10658	7½	575	213T	88.5	83.1	90	
MOT10579	MOT10627	10	200	215T	89.5	84.7	100	
MOT10595	MOT10643	10	208-230/460	215T	89.5	84.9	100	Yes
MOT10611	MOT10659	10	575	215T	89.5	84.8	100	
MOT10580	MOT10628	15	200	254T	91	81.1	150	
MOT10596	MOT10644	15	208-230/460	254T	91	81.3	150	Yes
MOT10612	MOT10660	15	575	254T	91	82	150	
MOT10581	MOT10629	20	200	256T	91	82.1	160	
MOT10597	MOT10645	20	208-230/460	256T	91	82.6	160	Yes
MOT10613	MOT10661	20	575	256T	91	81.9	160	
MOT10582	MOT10630	25	200	284T	91.7	83.7	300	
MOT10598	MOT10646	25	208-230/460	284T	91.7	83.7	300	Yes
MOT10614	MOT10662	25	575	284T	91.7	83.8	300	
MOT10583	MOT10631	30	200	286T	92.4	85.6	325	
MOT10599	MOT10647	30	208-230/460	286T	92.4	85.7	325	Yes
MOT10615	MOT10663	30	575	286T	92.4	85.7	325	
MOT10584	MOT10632	40	200	324T	93	87.6	385	
MOT10600	MOT10648	40	230/460	324T	93	87.5	385	Yes
MOT10616	MOT10664	40	575	324T	93	87.7	385	
MOT10585	MOT10633	50	200	326T	93	87.6	415	
MOT10601	MOT10649	50	230/460	326T	93	87.5	415	Yes
MOT10617	MOT10665	50	575	326T	93	87.5	415	
MOT10586	MOT10634	60	200	364T	93.6	86.4	580	
MOT10602	MOT10650	60	230/460	364T	86.2	86.4	580	Yes
MOT10618	MOT10666	60	575	364T	93.6	86.4	580	
MOT10587	MOT10635	75	200	365T	94.1	85.7	600	
MOT10603	MOT10651	75	230/460	365T	94.1	86.4	600	Yes
MOT10619	MOT10667	75	575	365T	94.1	85	600	
MOT10588	MOT10636	100	200	404T	94.1	87.4	750	
MOT10604	MOT10652	100	230/460	404T	94.1	87.5	750	Yes
MOT10620	MOT10668	100	575	404T	94.1	87.8	750	

# Motors

## Integral Horsepower Motors by US Motors

### General Purpose Three Phase

Open Drip-proof EPACT Premium Efficient, 1800 rpm

Motors

SERVICEFIRST ITEM NO	SERVICEFIRST ITEM NO F2	HP	Volts	Frame	Efficiency Full Load	Power Factor Full Load	Shipping Weight
MOT10669	MOT10717	1	200	143T	85.5	72	35
MOT10685	MOT10733	1	230/460	143T	85.5	73	35
MOT10701	MOT10749	1	575	143T	84	69	35
MOT10670	MOT10718	1½	200	145T	86.5	73.5	40
MOT10686	MOT10734	1½	230/460	145T	86.5	70.6	40
MOT10702	MOT10750	1½	575	145T	86.5	70.6	40
MOT10671	MOT10719	2	200	145T	86.5	77	45
MOT10687	MOT10735	2	230/460	145T	86.5	74.7	45
MOT10703	MOT10751	2	575	145T	86.5	74.7	45
MOT10672	MOT10720	3	200	182T	89.5	80	50
MOT10688	MOT10736	3	230/460	182T	90.2	78.9	50
MOT10704	MOT10752	3	575	182T	90.2	79.6	50
MOT10673	MOT10721	5	200	184T	89.5	81	60
MOT10689	MOT10737	5	230/460	184T	89.5	81	60
MOT10705	MOT10753	5	575	184T	89.5	81.2	60
MOT10674	MOT10722	7½	200	213T	91.7	84.2	90
MOT10690	MOT10738	7½	230/460	213T	91.7	82.3	90
MOT10706	MOT10754	7½	575	213T	91	85.6	90
MOT10675	MOT10723	10	200	215T	91.7	83.5	100
MOT10691	MOT10739	10	230/460	215T	91	82.8	100
MOT10707	MOT10755	10	575	215T	91	84.3	100
MOT10676	MOT10724	15	200	254T	93	81.6	150
MOT10692	MOT10740	15	230/460	254T	93	81.6	150
MOT10708	MOT10756	15	575	254T	92.4	82.2	150
MOT10677	MOT10725	20	200	256T	93.6	83	160
MOT10693	MOT10741	20	230/460	256T	93.6	82.7	160
MOT10709	MOT10757	20	575	256T	93	84	160
MOT10678	MOT10726	25	200	284T	94.1	86	300
MOT10694	MOT10742	25	230/460	284T	85.3	85.2	300
MOT10710	MOT10758	25	575	284T	94.1	86.1	300
MOT10679	MOT10727	30	200	286T	94.1	94.1	85.3
MOT10695	MOT10743	30	230/460	286T	94.1	94.1	86.2
MOT10711	MOT10759	30	575	286T	86.2	94.1	85.3
MOT10680	MOT10728	40	200	324T	94.5	86.2	385
MOT10696	MOT10744	40	230/460	324T	94.5	86.2	385
MOT10712	MOT10760	40	575	324T	94.5	85.7	385
MOT10681	MOT10729	50	200	326T	94.5	87.2	415
MOT10697	MOT10745	50	230/460	326T	94.5	87.2	415
MOT10713	MOT10761	50	575	326T	94.5	86.2	415
MOT10682	MOT10730	60	200	364T	95	85.6	580
MOT10698	MOT10746	60	230/460	364T	94.5	85.8	580
MOT10714	MOT10762	60	575	364T	95	85.9	580
MOT10683	MOT10731	75	200	365T	95	85.7	600
MOT10699	MOT10747	75	230/460	365T	95	86	600
MOT10715	MOT10763	75	575	365T	95	85.7	600
MOT10684	MOT10636	100	200	404T	94.1	85.6	750
MOT10700	MOT10748	100	230/460	404T	95.4	87.4	750
MOT10716	MOT10764	100	575	404T	95.4	87.4	750

**Integral Horsepower Motors by US Motors**

**General Purpose Three Phase**

Totally Enclosed Fan Cooled EPACT Energy Efficient, 1800 rpm

SERVICEFIRST ITEM NO	SERVICEFIRST ITEM NO F2	HP	Volts	Frame	Efficiency Full Load	Power Factor Full Load	Shipping Weight	50Hz Capable
MOT10765	MOT10813	1	200	143T	82.5	76.2	65	
MOT10781	MOT10829	1	208-230/460	143T	82.5	76.2	65	Yes
MOT10797	MOT10845	1	575	143T	82.5	76.1	65	
MOT10766	MOT10814	1½	200	145T	84	77.4	70	
MOT10782	MOT10830	1½	208-230/460	145T	84	77	70	Yes
MOT10798	MOT10846	1½	575	145T	84	75.7	70	
MOT10767	MOT10815	2	200	145T	84	74.9	70	
MOT10783	MOT10831	2	208-230/460	145T	84	75.8	70	Yes
MOT10799	MOT10847	2	575	145T	84	75.9	70	
MOT10768	MOT10816	3	200	182T	87.5	79.4	100	
MOT10784	MOT10832	3	208-230/460	182T	87.5	79.3	100	Yes
MOT10800	MOT10848	3	575	182T	87.5	78.7	100	
MOT10769	MOT10817	5	200	184T	87.5	83.6	110	
MOT10785	MOT10833	5	208-230/460	184T	87.5	83.6	110	Yes
MOT10801	MOT10849	5	575	184T	87.5	83.5	110	
MOT10770	MOT10818	7½	200	213T	89.5	82.8	160	
MOT10786	MOT10834	7½	208-230/460	213T	89.5	82.9	160	Yes
MOT10802	MOT10850	7½	575	213T	89.5	83.4	160	
MOT10771	MOT10819	10	200	215T	89.5	83.9	175	
MOT10787	MOT10835	10	208-230/460	215T	89.5	83.7	175	Yes
MOT10803	MOT10851	10	575	215T	89.5	83.7	175	
MOT10772	MOT10820	15	200	254T	91	83.3	300	
MOT10788	MOT10836	15	208-230/460	254T	91	83.5	300	Yes
MOT10804	MOT10852	15	575	254T	91	83.9	300	
MOT10773	MOT10821	20	200	256T	91	84.2	360	
MOT10789	MOT10837	20	208-230/460	256T	91	83.8	360	Yes
MOT10805	MOT10853	20	575	256T	91	83.7	360	
MOT10774	MOT10822	25	200	284T	92.4	85	390	
MOT10790	MOT10838	25	208-230/460	284T	92.4	84.8	390	Yes
MOT10806	MOT10854	25	575	284T	92.4	85.8	390	
MOT10775	MOT10823	30	200	286T	92.4	85.4	440	
MOT10791	MOT10839	30	230/460	286T	92.4	85.2	440	Yes
MOT10807	MOT10855	30	575	286T	92.4	84.8	440	
MOT10776	MOT10824	40	200	324T	93	87.7	600	
MOT10792	MOT10840	40	230/460	324T	93	87.6	600	Yes
MOT10808	MOT10856	40	575	324T	93	87.6	600	
MOT10777	MOT10825	50	200	326T	93	88.2	610	
MOT10793	MOT10841	50	230/460	326T	93	88.2	610	Yes
MOT10809	MOT10857	50	575	326T	93	88.2	610	
MOT10778	MOT10826	60	200	364T	93.6	85.8	825	
MOT10794	MOT10842	60	230/460	364T	93.6	85.7	825	Yes
MOT10810	MOT10858	60	575	364T	93.6	86.2	825	
MOT10779	MOT10827	75	200	365T	94.1	85.4	910	
MOT10795	MOT10843	75	230/460	365T	94.1	87.2	910	Yes
MOT10811	MOT11859	75	575	365T	94.1	86.3	910	
MOT10780	MOT10828	100	200	405T	94.5	85.5	1250	
MOT10796	MOT10844	100	230/460	405T	94.5	87.4	1250	Yes
MOT10812	MOT10860	100	575	405T	94.5	85.3	1250	

# Motors

## Integral Horsepower Motors by US Motors

### General Purpose Three Phase

Totally Enclosed Fan Cooled EPACT Premium Efficient, 1800 rpm

Motors

SERVICEFIRST ITEM NO	SERVICEFIRST ITEM NO F2	HP	Volts	Frame	Efficiency Full Load	Power Factor Full Load	Shipping Weight
MOT10861	MOT10909	1	200	143T	86.5	78	45
MOT10877	MOT10925	1	230/460	143T	86.5	78	45
MOT10893	MOT10941	1	575	143T	86.5	78.7	45
MOT10862	MOT10910	1½	200	145T	86.5	77.3	47
MOT10878	MOT10926	1½	230/460	145T	86.5	77.3	47
MOT10894	MOT10942	1½	575	145T	86.5	77.6	47
MOT10863	MOT10911	2	200	145T	86.5	78.6	50
MOT10879	MOT10927	2	230/460	145T	86.5	79	50
MOT10895	MOT10943	2	575	145T	86.5	78.6	50
MOT10864	MOT10912	3	200	182T	89.5	79	85
MOT10880	MOT10928	3	230/460	182T	89.5	79	85
MOT10896	MOT10944	3	575	182T	88.5	80	85
MOT10865	MOT10913	5	200	184T	90.2	83.4	100
MOT10881	MOT10929	5	230/460	184T	90.2	83.4	100
MOT10897	MOT10945	5	575	184T	90.2	83	100
MOT10866	MOT10914	7½	200	213T	91.7	84.5	150
MOT10882	MOT10930	7½	230/460	213T	91.7	84.5	150
MOT10898	MOT10946	7½	575	213T	91	85	150
MOT10867	MOT10915	10	200	215T	91.7	86.5	190
MOT10883	MOT10931	10	230/460	215T	91.7	86.5	190
MOT10899	MOT10947	10	575	215T	91.7	86.5	190
MOT10868	MOT10916	15	200	254T	93	82.5	300
MOT10884	MOT10932	15	230/460	254T	93	82.5	300
MOT10900	MOT10948	15	575	254T	93	83	300
MOT10869	MOT10917	20	200	256T	93.6	85	310
MOT10885	MOT10933	20	230/460	256T	93.6	85	310
MOT10901	MOT10949	20	575	256T	93.6	85	310
MOT10870	MOT10918	25	200	284T	93.6	85	355
MOT10886	MOT10934	25	230/460	284T	93.6	85.5	355
MOT10902	MOT10950	25	575	284T	93.6	86	355
MOT10871	MOT10919	30	200	286T	94.1	86.5	400
MOT10887	MOT10935	30	230/460	286T	94.1	86.5	400
MOT10903	MOT10951	30	575	286T	94.1	87	400
MOT10872	MOT10920	40	200	324T	94.1	86.5	550
MOT10888	MOT10936	40	230/460	324T	94.1	86.5	550
MOT10904	MOT10952	40	575	324T	94.1	86.5	550
MOT10873	MOT10921	50	200	326T	94.5	88.3	625
MOT10889	MOT10937	50	230/460	326T	94.1	88.3	625
MOT10905	MOT10953	50	575	326T	94.1	88.3	625
MOT10874	MOT10922	60	200	364T	95	84	825
MOT10890	MOT10938	60	230/460	364T	95	84	825
MOT10906	MOT10954	60	575	364T	95	85.5	825
MOT10875	MOT10923	75	200	365T	95.4	85.7	890
MOT10891	MOT10939	75	230/460	365T	95.4	87.5	890
MOT10907	MOT10955	75	575	365T	95.4	87.5	890
MOT10876	MOT10924	100	200	405T	95.4	84	1200
MOT10892	MOT10940	100	230/460	405T	95.4	85.4	1200
MOT10908	MOT10956	100	575	405T	95.4	85.4	1200



**Integral Horsepower Motors by US Motors**

**Special Application, Three Phase**

**TEAO, Cooling Tower Duty Energy Efficient**

*2-speed, 1- and 2-winding*

SERVICEFIRST ITEM NO	HP (High)	HP (Low)	Volts	RPM	No of Windings	Frame	Efficiency Full Load	Power Factor Full Load	Shipping Weight
MOT11338	2	0.5	460	1800/900	1	145T	82.5	76.4	70
MOT11339	2	0.5	575	1800/900	1	145T	82.5	76.4	70
MOT11340	2	0.5	460	1200/600	2	215T	82.8	77.9	175
MOT11341	3	0.75	200	1800/900	1	182T	82.5	79.4	100
MOT11342	3	0.75	460	1800/900	1	182T	82.5	78.9	100
MOT11343	3	0.75	575	1800/900	1	182T	82.5	79.9	100
MOT11344	3	0.75	460	1200/600	1	215T	82.5	78.2	175
MOT11345	5	1.25	200	1800/900	2	215T	88.5	79.7	175
MOT11346	5	1.25	200	1800/900	1	184T	84	82.9	110
MOT11347	5	1.25	460	1800/900	2	215T	88.5	79.7	175
MOT11348	5	1.25	460	1800/900	1	184T	84	84	110
MOT11349	5	1.25	200	1200/600	1	254T	86.5	76.7	300
MOT11350	5	1.25	460	1200/600	1	254T	85.5	64.6	300
MOT11351	7.5	1.875	200	1800/900	2	254T	88.5	77.8	300
MOT11352	7.5	1.875	200	1800/900	1	213T	85.5	83	160
MOT11353	7.5	1.875	460	1800/900	2	254T	88.5	77.8	300
MOT11354	7.5	1.875	460	1800/900	1	213T	85.5	83.7	160
MOT11355	7.5	1.875	575	1800/900	1	213T	85.5	83.1	160
MOT11356	7.5	1.875	460	1200/600	1	256T	85.5	63	340
MOT11357	7.5	1.875	460	1200/600	2	284T	84	76.5	390
MOT11358	10	2.5	200	1800/900	2	256T	89.5	82.4	360
MOT11359	10	2.5	200	1800/900	1	215T	86.5	83.6	175
MOT11360	10	2.5	460	1800/900	2	256T	89.5	82.4	360
MOT11361	10	2.5	460	1800/900	1	215T	86.5	82.7	175
MOT11362	10	2.5	575	1800/900	1	215T	87.5	84.1	175
MOT11363	10	2.5	200	1200/600	1	284T	87.5	76.8	380
MOT11364	10	2.5	460	1200/600	2	286T	84	78.5	440
MOT11365	10	2.5	460	1200/600	1	284T	87.5	76.8	380
MOT11366	15	3.75	200	1800/900	2	284T	90.2	83.8	390
MOT11372	15	3.75	200	1800/900	1	254T	89.5	81.1	300
MOT11373	15	3.75	460	1800/900	2	284T	90.2	83.8	390
MOT11374	15	3.75	460	1800/900	1	254T	89.5	81.1	300
MOT11375	15	3.75	575	1800/900	2	284T	90.2	83.8	390
MOT11376	15	3.75	575	1800/900	1	254T	89.5	81.1	300
MOT11377	15	3.75	200	1200/600	1	286T	88.5	80.1	410
MOT11378	15	3.75	460	1200/600	1	286T	88.5	80.1	410

# Motors

## Integral Horsepower Motors by US Motors

Special Application, Three Phase

TEAO, Cooling Tower Duty Energy Efficient

2-speed, 1- and 2-winding

Motors

SERVICEFIRST ITEM NO	HP (High)	HP (Low)	Volts	RPM	No of Windings	Frame	Efficiency Full Load	Power Factor Full Load	Shipping Weight
MOT11379	15	3.75	460	1200/600	2	324T	86.5	77.4	600
MOT11231	20	5	200	1800/900	1	256T	90.2	79.4	360
MOT11380	20	5	200	1800/900	2	286T	91	79.9	440
MOT11381	20	5	460	1800/900	2	286T	91	79.9	440
MOT11382	20	5	460	1800/900	1	256T	90.2	79.4	360
MOT11383	20	5	575	1800/900	2	286T	91	79.9	440
MOT11384	20	5	575	1800/900	1	256T	90.2	79.4	360
MOT11385	20	5	200	1200/600	1	324T	88.5	82.3	600
MOT11386	20	5	460	1200/600	2	326T	87.5	78.7	610
MOT11387	20	5	460	1200/600	1	324T	88.5	82.3	600
MOT11388	25	6.25	200	1800/900	2	324T	91.7	82.4	600
MOT11389	25	6.25	200	1800/900	1	286T	91	83.9	440
MOT11390	25	6.25	460	1800/900	2	324T	91.7	82.4	600
MOT11391	25	6.25	460	1800/900	1	286T	91	83.9	440
MOT11392	25	6.25	575	1800/900	1	286T	91	84	440
MOT11393	25	6.25	575	1800/900	2	324T	91.7	82.4	600
MOT11394	25	6.25	200	1200/600	1	326T	89.5	70.8	675
MOT11395	25	6.25	460	1200/600	2	364T	88.5	76.4	810
MOT11396	25	6.25	460	1200/600	1	326T	89.5	70.8	675
MOT11397	30	7.5	200	1800/900	1	324T	91.7	87.4	600
MOT11398	30	7.5	200	1800/900	2	326T	92.4	83.3	610
MOT11399	30	7.5	460	1800/900	2	326T	92.4	83.3	610
MOT11400	30	7.5	460	1800/900	1	324T	91.7	87.4	600
MOT11401	30	7.5	575	1800/900	1	324T	91.7	87.4	600
MOT11402	30	7.5	200	1200/600	1	364T	90.2	75.6	875
MOT11403	30	7.5	460	1200/600	1	364T	90.2	75.6	875
MOT11411	40	10	200	1800/900	1	326T	91.7	87.3	610
MOT11404	40	10	200	1800/900	2	364T	92.4	79	810
MOT11405	40	10	460	1800/900	2	364T	92.4	79	810
MOT11406	40	10	460	1800/900	1	326T	91.7	87.3	610
MOT11415	40	10	575	1800/900	1	326T	91.7	87.3	610
MOT11407	40	10	575	1800/900	2	326T	92.4	79	610
MOT11408	40	10	200	1200/600	1	365T	91	73.4	900
MOT11409	40	10	460	1200/600	2	404T	90.2	73.7	1050
MOT11410	40	10	460	1200/600	1	365T	91	73.4	900
MOT11412	50	12.5	200	1800/900	2	365T	92.4	85.1	910
MOT11414	50	12.5	200	1800/900	1	364T	92.4	85.8	825
MOT11416	50	12.5	460	1800/900	1	364T	92.4	80.8	810
MOT11413	50	12.5	460	1800/900	2	365T	92.4	85.1	925
MOT11417	50	12.5	575	1800/900	1	364T	92.4	85.9	825
MOT11418	50	12.5	200	1200/600	1	404T	91.7	74.8	1050
MOT11419	50	12.5	460	1200/600	1	404T	91.7	74.8	1050
MOT11420	60	15	200	1800/900	1	365T	93	85.2	910
MOT11421	60	15	460	1800/900	1	365T	93	84.8	925
MOT11422	60	15	575	1800/900	1	365T	93	84.8	910
MOT11423	75	18.75	200	1800/900	2	405T	93	84.1	1660
MOT11424	75	18.75	200	1800/900	1	405T	93.6	85.7	1250
MOT11425	75	18.75	460	1800/900	1	405T	93	83.3	1260
MOT11426	75	18.75	460	1800/900	2	405T	93	84.1	1660
MOT11427	100	25	200	1800/900	1	444T	93	84.8	1675
MOT11428	100	25	460	1800/900	1	444T	93	84.8	1675

**Integral Horsepower Motors by US Motors**

Special Application, Three Phase

TEFC, Cooling Tower Duty Energy Efficient

2-speed, 1- and 2-winding

SERVICEFIRST ITEM NO	HP		Volts	RPM	No of Windings	Frame	Efficiency Full Load	Power Factor Full Load	Shipping Weight
	(High)	(Low)							
MOT11274	2	0.5	200	1800/900	1	145T	82.5	76.4	70
MOT11275	3	0.75	200	1800/900	1	182T	83.5	78.3	100
MOT11276	3	0.75	460	1800/900	1	182T	82.5	78.9	100
MOT11277	5	1.25	200	1800/900	1	184T	84	82.9	110
MOT11278	5	1.25	200	1800/900	2	215T	88.5	79.7	175
MOT11279	5	1.25	460	1800/900	1	184T	84	84	110
MOT11280	5	1.25	460	1800/900	2	215T	88.5	79.7	175
MOT11281	5	1.25	575	1800/900	1	184T	84	83.8	110
MOT11282	5	1.25	460	1200/600	1	254T	85.5	64.6	300
MOT11283	7.5	1.875	200	1800/900	1	213T	85.5	83.7	160
MOT11284	7.5	1.875	200	1800/900	2	254T	88.5	77.8	300
MOT11285	7.5	1.875	460	1800/900	2	254T	88.5	77.8	300
MOT11286	7.5	1.875	460	1800/900	1	213T	85.5	83.7	160
MOT11287	7.5	1.875	575	1800/900	1	213T	85.5	83.7	160
MOT11288	7.5	1.875	460	1200/600	1	256T	85.5	75.6	340
MOT11289	10	2.5	200	1800/900	2	256T	89.5	82.4	360
MOT11290	10	2.5	200	1800/900	1	215T	86.5	83.6	175
MOT11291	10	2.5	460	1800/900	2	256T	91	81.6	360
MOT11292	10	2.5	460	1800/900	1	215T	86.5	82.7	175
MOT11293	10	2.5	575	1800/900	2	256T	89.5	76.4	360
MOT11294	10	2.5	575	1800/900	1	215T	86.5	82.9	175
MOT11295	10	2.5	460	1200/600	1	284T	87.5	74.3	380
MOT11296	15	3.75	200	1800/900	2	284T	90.2	83.8	390
MOT11297	15	3.75	200	1800/900	1	254T	89.5	81.1	300
MOT11298	15	3.75	460	1800/900	2	284T	90.2	83.8	390
MOT11205	15	3.75	460	1800/900	1	254T	89.5	81.1	300
MOT11299	15	3.75	575	1800/900	1	254T	89.5	81.1	300
MOT11300	15	3.75	575	1800/900	2	284T	90.2	83.8	390
MOT11301	15	3.75	460	1200/600	1	286T	88.5	75.4	410
MOT11302	20	5	200	1800/900	2	286T	91	79.9	440
MOT11303	20	5	200	1800/900	1	256T	90.2	79.4	360
MOT11304	20	5	460	1800/900	2	286T	91	79.9	440
MOT11305	20	5	460	1800/900	1	256T	90.2	79.4	360
MOT11306	20	5	575	1800/900	1	256T	90.2	79.4	360
MOT11307	20	5	575	1800/900	2	286T	91	79.9	440
MOT11309	20	5	460	1200/600	1	324T	88.5	77.8	600
MOT11310	25	6.25	200	1800/900	1	286T	91	83.9	440
MOT11311	25	6.25	200	1800/900	2	324T	91.7	82.4	600
MOT11215	25	6.25	460	1800/900	1	286T	91	83.9	440
MOT11312	25	6.25	460	1800/900	2	324T	91.7	82.4	600
MOT11313	25	6.25	575	1800/900	1	286T	91	83.9	440
MOT11314	25	6.25	575	1800/900	2	324T	91.7	82.4	600
MOT11315	25	6.25	460	1200/600	1	326T	89.5	70.8	675
MOT11316	30	7.5	200	1800/900	1	324T	91.7	87.3	600
MOT11317	30	7.5	200	1800/900	2	326T	92.4	83.3	610
MOT11318	30	7.5	460	1800/900	2	326T	92.4	83.3	610
MOT11319	30	7.5	460	1800/900	1	324T	91.7	87.3	600
MOT11320	30	7.5	575	1800/900	1	324T	91.7	87.3	600
MOT11321	30	7.5	460	1200/600	1	364T	90.2	74.6	875
MOT11322	40	10	200	1800/900	1	326T	91.7	87.3	610
MOT11323	40	10	460	1800/900	1	326T	91.7	87.4	610
MOT11324	40	10	460	1800/900	2	364T	92.4	79	810
MOT11325	40	10	575	1800/900	2	364T	92.4	79	810
MOT11326	40	10	575	1800/900	1	326T	91.7	87.4	610
MOT11327	40	10	460	1200/600	1	365T	91	76.5	900

# Motors

## Integral Horsepower Motors by US Motors

Special Application, Three Phase

TEFC, Cooling Tower Duty Energy Efficient

2-speed, 1- and 2-winding

Motors

SERVICEFIRST ITEM NO	HP		Volts	RPM	No of Windings	Frame	Efficiency Full Load	Power Factor Full Load	Shipping Weight
	(High)	(Low)							
MOT11328	50	12.5	200	1800/900	2	365T	92.4	85.1	925
MOT11329	50	12.5	200	1800/900	1	364T	91.7	85.8	825
MOT11330	50	12.5	460	1800/900	1	364T	92.4	80.8	810
MOT11331	50	12.5	460	1800/900	2	365T	92.8	80	925
MOT11332	50	12.5	575	1800/900	1	364T	91.7	85.9	825
MOT11333	60	15	200	1800/900	1	365T	93	85.1	910
MOT11334	60	15	460	1800/900	1	365T	93	84.8	925
MOT11335	60	15	575	1800/900	1	365T	93	84.8	910
MOT11336	75	18.75	200	1800/900	1	405T	93	83.3	1250
MOT11337	75	18.75	460	1800/900	1	405T	93	83.3	1260

## Motor Accessories

### Accessory Kits

SERVICEFIRST ITEM NO	DESCRIPTION
KIT02401	Kit, hub ring, 2 1/4" diameter
KIT01015	Capacitor mounting kit—fits 15/16" wide capacitors (not included) includes mounting strap, terminal boot and two screws
KIT01052	Direct drive blower mounting rings—E band-torsion type. Motor support ring with welded ears and mounting screws. Fits 5 1/2" dia. 48 Frame) motors—9" or 10" blower mount diameter. Mounting ears have dual mounting holes to fit either blower mount diameter

### Hub Rings (GE Style)

SERVICEFIRST ITEM NO	OD	Width	Max ID	Min ID
RNG00957	2.5"	0.47	1.95	1.74
RNG01013	2.5"	0.56	1.85	1.79
RNG01014	2.5"	0.47	1.6	1.55

### Motor Mounting Collar

SERVICEFIRST ITEM NO	DESCRIPTION
CLR00047	Motor mounting collar w/2 screws fits NEMA 56 frame (6.5 inch) motor

### Rain Shields by Emerson

SERVICEFIRST ITEM NO	DESCRIPTION
SLG00031	48" frame, 1/2" orange
SLG00053	48" frame, 1/2" black
SLG00056	56" frame, 1/2" black

## OEM Replacement Motors

Addison/Sears

PC-29 Mobile Home Packaged A/C

Replaces: 8101-338, K55TXGGP3933, K55GGP3933

7.5 MFD capacitor - not supplied

SERVICE FIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	Model	Insul Class	Max Ambien t	Shaft End Bearing	Phase	Amps	Thermally Protected	Type	Weight
MOT0627 1	8231	3/4 HP, 230 volts, RPM 1075/3, amps 5.2, dia. 5.6", Wt. 22 lbs.	K055SB C82318 03B	B	40	SAB OR SLV	1	5.2	AUTOMAT IC RESET	PERM SPLIT CAP	22 lbs

**OEM Replacement Motors**

**Ama**

**Packaged Termil Air-Conditioner Blower**

Replaces: C6397901, K48HXBLF100  
4.0 MFD capacitor-not supplied

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
MOT06272	3034	1/20 HP, 208-230 volts, diameter 5.0", amps 0.5, RPM 1075/3, Wt. 10 lbs.

**AMC Wizard, Chrysler, Coldspot, Emerson Quietkool, Gibson, Hotpoint, Kelvitor, Penncrest, Philco**

**Room A/C**

5.0 MFD capacitor-not supplied.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
MOT06328	7024	1/3 HP, 230 volts, diameter 5.6", amps 2.7, RPM 1365/3, Wt. 8 lbs.

**Arkla**

**Condenser Fan**

Replaces: B14506-261, K55HXGJN3986  
12.5 MFD capacitor-not supplied

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
MOT06274	8075	1/2 HP, 230 volts, diameter 5.6", amps 3.3, RPM 825, Wt 16 lbs.

Replaces: B14506-261, K55HXGJN3986, OKB1038, K234Z  
5.0 MFD capacitor-not Supplied

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
MOT06273	2342	1/3 HP, 115 volts, diameter 5.6", amps 4.5, RPM 825, Wt. 14 lbs.

**Arvin, Bohn, Coleman**

**Direct Drive Blower**

Replaces: 391, D151, A6262, 5002-M 3400A312  
7.5 MFD capacitor-not supplied.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
MOT10032	1391	1/4 HP, 208-230 volts, diameter 5.0", amps 1.5, RPM 1050/3, Wt. 12 lbs.

**Carrier**

**Condenser Fan**

Replaces: Fasco D802, 5KCP39PGH600C5, AOS FEH1056S  
10.0 MFD capacitor-not supplied.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
MOT10227	3320	1/2 HP, 460 volts, diameter 5.6", amps 1.3, RPM 1050, Wt. 13 lbs.

Replaces: Fasco D842, HC37VE230  
4.0 MFD capacitor-not supplied.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
MOT10230	3350	1/5 HP, 208-230 volts, diameter 5.6", amps 1.7, RPM 1075, Wt. 12 lbs.

Replaces: HC37MZ220, F48SG6MA10, HC39VE608, F48SG6MA16, HC39ML706, F48SG6MA28, HC37ME720, F48SG6MA37, HC7ML702, F48SJ6MA28, P251-5404, FASCO D843  
5.0 MFD capacitor -not supplied.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
MOT06283	3303	1/4 HP, 208-230 volts, diameter 5.6", amps, 2.5, RPM 1075/2, Wt. 13 lbs.

# Motors

## OEM Replacement Motors

### Carrier

#### Condenser Fan

Motors

**Replaces: HC37GE208, 5KCP39GFR62BAS**  
5.0 MFD capacitor-not supplied.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
MOT10221	3400	1/5 HP, 208-230 volts, diameter 5.6", amps 1.2, RPM 825, Wt. 12 lbs.

**Replaces: HC31GE232, 5KCP39BGS162S**  
5.0 MFD capacitor-not supplied.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
MOT10222	3401	1/12 HP, 208-230 volts, diameter 5.6", amps 0.7, RPM 1100, Wt. 9 lbs.

**Replaces: HC33GE233, 5KCP39BGS069S**  
5.0 MFD capacitor-not supplied.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
MOT10223	3402	1/10 HP, 208-230 volts, diameter 5.6", amps 0.8, RPM 1100, Wt. 11 lbs.

**Replaces: HC39GE237, 5KCP39EGS070S**  
5.0 MFD capacitor-not supplied.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
MOT10224	3403	1/4 HP, 208-230 volts, diameter 5.6", amps 1.8, RPM 1100, Wt. 12 lbs.

**Replaces: HC39GE236, 5 KCP39BGS071S**  
5.0 MFD capacitor-not supplied.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
MOT10225	3404	1/4 HP, 208-230 volts, diameter 5.6", amps 1.8, RPM 1100, Wt. 12 lbs.

**Replaces: HC33GE208, 5KCP39BGR201BS**  
5.0 MFD capacitor-not supplied.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
MOT10226	3405	1/6 HP, 208-230 volts, diameter 5.6", amps 0.8, RPM 1500, Wt. 9 lbs.

**Replaces: D804, 5KCP39PGC238S**  
7.5 MFD capacitor-not supplied.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
MOT10228	3330	1/2 HP, 208-230 volts, diameter 5.6", amps 5.1, RPM 1075, Wt. 20 lbs.

**Replaces: KA55ESH980, K55KND8471**  
7.5 MFD capacitor-not Supplied

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
MOT06278	1553	1/8 HP, 208-230 volts, diameter 5.6", amps 0.9, RPM 825, Wt. 12 lbs.

#### Condenser Fan—The Round One

**Replaces: KA55ECD672**  
5.0 MFD capacitor -not supplied.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
MOT06280	1545	1/4 HP, 208-230 volts, diameter 5.6", amps 1.4, RPM 1625, Wt. 13 lbs.

**Replaces: X222, OCB1036, D803, Universal #536**  
5.0 MFD capacitor-not supplied.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
MOT06282	3225	1/3 HP, 208-230 volts, diameter 5.6", amps 2.8, RPM 1075/2, Wt. 14 lbs.

**OEM Replacement Motors**

**Carrier**

**Direct Drive Blower**

**Replaces: 62814-D5, K55HXFBK5867**  
7.5 MFD capacitor - not Supplied

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
MOT06279	1410	1/3 HP, 115 volts, diameter 5.6", amps 5.3, RPM 1075/4, Wt. 16 lbs

**Replaces: D838, HC45SE116, SC435X101, HC435SE116**  
7.5 MFD capacitor-not supplied.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
MOT10229	3340	3/4 HP, 115 volts, diameter 5.6", amps 12.1, RPM 1075/4, Wt. 18 lbs.

**Room A/C**

**Replaces: D848, HC37MB-730, 51PH124275**  
3.0 MFD capacitor-not supplied.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
MOT10232	3360	1/5 HP, 265-277 volts, diameter 5.6", amps 1.3, RPM 1040/3, Wt. 12 lbs.

**Replaces: K55HXNT-J-4882, Hc33ZN-042-05**  
5.0 MFD capacitor supplied and mounted.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
MOT10231	3300	1/10 HP, 220 volts, diameter 5.6", amps 0.85, RPM1550/3, Wt. 11 lbs

**Carrier, Coleman, Freidrich, Gaffers and Sattler, Rheem, York**

**Condenser Fan**

5.0 MFD capacitor-not supplied.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
MOT06331	8008	1/3 HP, 230 volts, diameter 5.6", amps 2.2, RPM 1075/2, Wt. 13 lbs.

5.0 MFD capacitor-not supplied.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
MOT06332	8009	1/4 HP, 230 volts, diameter 5.6", amps 2.0, RPM 1075/2, Wt. 13 lbs.

**Copeland**

**Condenser Fan**

**Replaces: 050-0251-00**  
3.0 MFD capacitor included.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
MOT10233	6128	1/6 HP, 208-230 volts, diameter 5.6", amps 1.1, RPM 1550, Wt. 17 lbs.

**Replaces: 050-0108-00, K55ECE2645, 050-0018-00**  
4.0 MFD capacitor included and mounted.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
MOT06287	6127	1/3 HP, 230 volts, diameter 5.6", amps 2.4, RPM 1625, Wt. 17 lbs.

**Replaces: 050-0238-00, K55BZY1439, 5KCCP39GG-3537S, 050-0107-01**  
5.0 MFD capacitor included.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
MOT06286	6124	1/4 HP, 230 volts, diameter 5.6", amps 2.1, RPM 1550, Wt. 13 lbs.

# Motors

## OEM Replacement Motors

### Copeland

#### Condenser Fan

Replaces: 050-0250-00

5.0 MFD capacitor included and mounted.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
MOT10234	6129	1/4 HP, 208-230 volts, diameter 5.6", amps 1.5, RPM 1625, Wt. 17 lbs.

Replaces: 050-0250-02

5.0 MFD capacitor included and mounted.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
MOT10235	6130	1/4 HP, 575 volts, diameter 5.6", amps 0.7, RPM 1625, Wt. 17 lbs.

Replaces: 050-0242-00, 050-0103-00, F48NY741

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
MOT06284	1527	1/6 HP, 230 volts, diameter 5.0", amps 2.8, RPM 1550, Wt. 13 lbs.

#### Condenser Fan—Head Cooling

Replaces: 050-0167-002F48BGP1092, 5KSP29BG5012S, 5KSP21DG2162

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
MOT06285	1989	1/20 HP, 230 volts, diameter 5.0", amps 1.3, RPM 1550/1300, Wt. 10 lbs.

### Cornelius

#### Food Service-Slurpie Machines

Replaces: S60JXEKF-5026,M S60JXGEJ-6007, SA55JXJS-5286, SA55JXCJC-4000

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
MOT06288	5401	1/8 HP, 208-230 volts, diameter 5.6", amps 2.2, RPM 1140, Wt. 16 lbs.

### Day and Night, Rheem, Weatherking, Addison

#### Condenser Fan

Replaces: 8101-193, 8101-279, 19906-01-01, 18471-01-05, 05-1198, F55BWM1119, K55EBC2608, F54CKY1397, 55CDR1259, F55CSH1352, K55ERC3004

5.0 MFD capacitor-not supplied.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
MOT06333	8537	1/5 to 1/8 HP, 230 volts, diameter 5.6", amps 1.4/0.8, RPM 1075/2, Wt. 13 lbs.

### Fedders

#### Room A/C

Replaces: K55HXFPF-7385

7.5 MFD, 440V capacitor-not supplied.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
MOT06291	2328	1/3 HP, 208-230 volts, diameter 6.3", amps 4.0, RPM 1075, Wt. 34 lbs.

Replaces: K55HXFPF-7385

7.5 MFD, 440V capacitor-not supplied.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
MOT10236	7385	1/3 HP, 208-230 volts, diameter 5.6", amps 1.9, RPM 1100/4, Wt. 16 lbs.

#### Room A/CR

Replaces: S196-58-2, 5KCP39DGA931T

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
MOT06292	5107	1/4 HP, 208-230 volts, diameter 5.6", amps 1.9, RPM 1075/3, Wt. 13 lbs.



**OEM Replacement Motors**

**Gibson, Kelvitor**

Room A/C

**Replaces: RE167, D854, OBL1034**  
5.0 MFD capacitor-not supplied.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
MOT06293	3228	1/3 HP, 208-230 volts, diameter 5.6", amps 2.4, RPM 1365/3, Wt. 14 lbs.

**Gibson-Belding, Kelvitor**

Room A/C

**Replaces: RE133, 80431**  
5.0 MFD capacitor included and mounted.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
MOT06334	1152	1/5 HP, 230 volts, diameter 5.6", amps 1.4, RPM 1075/3, Wt. 13 lbs.

**Hill Refrigeration**

Condenser Fan

**Replaces: K55HCN4370, KCP39KG1369S, 3001, 82001, M-Z-008, F112,D801**  
6.0 MFD capacitor included and mounted.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
MOT10237	7232	1/3 HP, 208-230 volts, diameter 5.6", amps 2.9, RPM 1625, Wt. 16 lbs.

**Hussman**

Condenser Fan

**Replaces: P011-96202, K55NXKWB8574, K55HWR4884, D807**  
3.0 MFD capacitor supplied and mounted.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
MOT06297	1645	1/6 HP, 208-230 volts, diameter 5.6", amps 2.0, RPM 1725, Wt. 13 lbs.

**Replaces: P011-96203, K55HXKWA8573, K55CLN1782**  
4.0 MFD capacitor supplied and mounted.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
MOT06298	1648	1/5 HP, 208-230 volts, diameter 5.6", amps 2.0, RPM 1075, Wt. 13 lbs.

**Replaces: 259983, K55HXCTP9963, D890**  
5.0 MFD capacitor supplied and mounted.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
MOT06299	644	1/2 HP, 208-230 volts, diameter 5.6", amps 2.7, RPM 1725, Wt. 15 lbs.

**ICP**

Direct Drive Blower

**Replaces: K55BLW6108, ICP#1008619**  
10.0 MFD capacitor-not included.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
MOT10238	1125	3/4 HP, 115 volts, diameter 5.6", amps 11.9, RPM 900/4, Wt. 20 lbs.

**Replaces: 1008415, K55BAR5894**  
10.0 MFD capacitor-not included.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
MOT10239	1126	1/3 HP, 115 volts, diameter 5.6", amps 7.2, RPM 1075/3, Wt. 15 lbs.

# Motors

## OEM Replacement Motors

### Lennox

#### Condenser Fan

Replaces: P-8-2702, K55BWE1351, KCP39GGA124S  
4.0 MFD capacitor-not supplied.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
MOT06302	8054	1/4 HP, 230 volts, diameter 5.6", amps 1.9, RPM 1075, Wt. 12 lbs.

Replaces: P-8-8041, K55FCM3264  
5.0 MFD capacitor-not supplied.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
MOT06300	7994	1/3 HP, 208-230 volts, diameter 5.6", amps 2.2, RPM 1075, Wt. 16 lbs.

Replaces: P-8-3140, K55BZW1438  
5.0 MFD capacitor-not supplied.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
MOT06303	9993	1/3 HP, 208-230 volts, diameter 5.6", amps 3.0, RPM 1075, Wt. 14 lbs.

#### Direct Drive Blower

Replaces: Lennox 65G5901, KA55HXJAK2549, 5KCP39NGM981AS  
15.0 MFD capacitor-not supplied.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
MOT10240	8052	1/3 HP, 230 volts, diameter 5.6", amps 1.9, RPM 825/3, Wt. 14 lbs.

### Miller

#### Direct Drive Blower

Replaces: D156, Universal #326

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
MOT06302	2166	1/6 HP, 115 volts, diameter 5.6", amps 5.2, RPM 1050, Wt. 10 lbs.

### Rheem

#### Condenser Fan

Replaces: 51-20682, K55MPZ6560  
3.0 MFD capacitor-not supplied.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
MOT06305	136	1/5 HP, 208-230 volts, diameter 5.6", amps 1.3, RPM 1075, Wt. 10 lbs.

Replaces: 51-20671-01, 51-20673-01, 51-20674-01, 51-20675-01, 51-20679-01, 51-20680-01, 51-20681-01, 51-20682-01, 51-1826-01, 51-21827-01, 51-21828-01, 51-21829-01, 51-21830-01, 51-21831-01  
3.0 MFD capacitor-not supplied (5.0 MFD capacitor acceptable alternate).

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
MOT06312	5454	1/5 HP, 208-230 volts, diameter 5.6", amps 1.7, RPM 1075, Wt. 11 lbs.

Replaces: P-8-2702, K55BWE1351, KCP39GGA124S, 541-21854-06  
3.0 MFD capacitor-not supplied.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
MOT10241	5459	1/15 HP, 208-230 volts, diameter 5.6", amps 0.5, RPM 1050, Wt. 9 lbs.

Replaces: K55JGH2667, Rheem 51-21854-01  
3.0 MFD capacitor-not supplied.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
MOT10244	5453	1/6 HP, 208-230 volts, diameter 5.6", amps 0.7, RPM 1075, Wt. 7 lbs.

OEM Replacement Motors

Rheem

Condenser Fan

Replaces: 51-21854-02

3.0 MFD capacitor - not supplied

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
MOT10245	5450	1/5 HP, 208-230 volts, diameter 5.6", amps 7.3, RPM 1075/4, Wt. 17 lbs.

Replaces: 51-20671-01, F55HXCWT1579

5.0 MFD capacitor-not supplied.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
MOT06311	3484	1/8 HP, 230 volts, diameter 5.6", amps 1.0, RPM 1075, Wt. 9 lbs.

Replaces: 51-20761-91,

5.0 MFD capacitor-not supplied.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
MOT06314	5456	1/8 HP, 208-230 volts, diameter 5.6", amps 1.2, RPM 825, Wt. 11 lbs.

Replaces: 51-21276-01, 51-21276-02, 51-20763-01, 51-2076091, K55MFG6350, K55PAK7253, K55CNW9833

5.0 MFD capacitor-not supplied.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
MOT06316	9735	1/8 HP, 208-230 volts, diameter 5.6", amps 1.1, RPM, 825, Wt. 11 lbs.

Replaces: 51-20760-91, K55MAB4123

7.5 MFD capacitor-not supplied.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
MOT06315	5457	1/6 HP, 208-230 volts, diameter 5.6", amps 1.2, RPM825, Wt. 13 lbs.

Replaces: 51-23053-21, K055PRE5669

Uses 5.0 MFD or 7.5 MFD 370 V capacitor-not supplied, four holes in shell for mounting.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
MOT09987	5462	1/3 to 1/6 HP, 208-230 volts, diameter 5.6", amps 2.6, RPM 1075, Wt. 15 lbs.

Replaces: 51-20687-01, 51-20688-01, 51-20689-01, 51-20690-01, 51-21836-01, 51-21837-01, 51-21838-01, 51-21839-01, 51-21845-03, 51-23053-11, 51-41315-01, 51-41316-01, 51-41317-01

Reversible 5.0 MFD capacitor-not supplied.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
MOT06313	5455	1/3 HP, 208-230 volts, diameter 5.6", amps 2.0, RPM 1075, Wt. 13 lbs.

Direct Drive Blower

Replaces: K55PAD4962, Rheem 51-22700-01-51-23017-42, K55BWDRJ7033, ICP HQ1010263EM, 5452, K55HXDRJ0011

15.0 MFD capacitor-not supplied.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
MOT10243	5463	3/4 HP, 115 volts, diameter 5.6", amps 10.6, RPM 1075/4, Wt. 20 lbs.

Replaces: 19572-01, K55GZD4276

7.5 MFD capacitor-not supplied.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
MOT06307	591	1/3 HP, 115 volts, diameter 5.6", amps 7.0, RPM 1075/3, Wt. 10 lbs

Replaces:K55NMF4760, Rheem 51-22686-01

7.5 MFD capacitor-not supplied.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
MOT10242	5451	1/2 HP, 115 volts, diameter 5.6", amps 6.8, RPM 1075/3, Wt. 14 lbs.

# Motors

## OEM Replacement Motors

### Rheem

#### Direct Drive Blower

Replaces: 51-23012-41, K055MDA4122

Uses 5.0, 7.5 or 10.0 MFD capacitor-not supplied, eight holes in shell for brackets.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
MOT09985	5460	1/2 to 1/6 HP, 115 volts
MOT09986	5461	1/2 to 1/6 HP, 208-230 volts, diameter 5.6", amps 3.6, RPM 1075/4, Wt. 16 lbs.

#### Room A/C

Replaces: K55CLZ6531, K055BSB6196, C63828-06, C64602-06

5.0 MFD capacitor-not supplied

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
MOT10220	3035	1/20 HP, 115 volts, diameter 5.6", amps 0.8, RPM1000/3, Wt 11 lbs.

Condenser Fan Replaces: D98432-02Q

4.0 MFD capacitor-not supplied

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
MOT06283	3033	1/12 HP, 208-230 volts, diameter 5.6", amps .56, RPM 1200/2, Wt. 10 lbs.

### Singer

#### Commercial Fan Coil

Replaces: EWDQ-5790, K7HY605

5.0 MFD capacitor-not supplied.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
MOT06318	1012	1/8 HP, 277 volts, diameter 5.0", amps 0.8, RPM 1075/3, Wt. 10 lbs.

### Whirlpool

#### Room A/C

Replaces: 997346, K55HDJ4396, K55RGW7901, K55RHM7916, K55RHP7917, K55KFK8314, K55KFL8315

5.0 MFD capacitor-not supplied.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
MOT06324	8558	1/3 HP, 230 volts, diameter 5.6", amps 1.9, RPM 1075/3, Wt. 16 lbs.

### Whirlpool/Sears

#### Room A/C

Replaces: Various

5.0 MFD capacitor-not supplied.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
MOT06322	5108	1/3 HP, 230 volts, diameter 5.6", amps 2.3, RPM 1075/3, Wt. 16 lbs.

Replaces: RE120, D859, Deco Inside-Out

5.0 MFD capacitor-not supplied.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
MOT06319	855	1/3 HP, 230 volts, diameter 5.6", amps 2.0, RPM 1075/3, Wt. 14 lbs.

Replaces: RE124, D857, Delco Inside-Out

5.0 MFD capacitor-not supplied.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
MOT06320	1142	1/8 HP, 115 volts, diameter 5.6", amps 2.1, RPM 1075/3, Wt. 10 lbs.

**OEM Replacement Motors**

York/Berg Warner

Condenser Fan

Replaces: F47BGM927, D1041, S2091  
5.0 MFD capacitor-not supplied.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
MOT06325	1124	1/5 HP, 208-230 volts, diameter 5.0", amps 1.3, RPM 1075, Wt. 12 lbs.

Room A/C

Replaces: 024-20797, K55RKD7948  
7.5 MFD capacitor-not supplied.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
MOT06326	2554	1/2 HP, 208-230 volts, diameter 5.6", amps 2.4, RPM 1075, Wt. 18 lbs.

**Accessories**

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	HP/VOLTS
KIT02400	1	Shaft conversion set. Each set includes 1 shaft adapter and 1 key (converts 1/2" shaft to 5/8" key)	
KIT02401	9	Hub ring set—2 1/4" diameter	(2 per set).
KIT02402	10	Hub ring set—2 1/2" diameter	(2 per set).
KIT02403	52	Base clamp mounting hardware—2 1/2" diameter. Each set includes all hardware for one motor.	
KIT02406	25	Belly band mount adjustable ear mount for 5.6" diameter motor (double wire type).	
KIT02408	55	8 1/2" long 8 x 32 thread stator studs and nuts.	
KIT02411	16	Direct drive blower mounting ring set—double wire type. Each set includes motor support ring, 3 rubber mounting bushings with sleeves and mounting screws. For 4.8" diameter motor—99/32" blower mount dia.	
KIT02412	17	For 5.6" diameter motor—10" blower mount dia.	
KIT02413	43	Direct drive belly band blower mounting ring set - E band - torsion type. Each set includes motor support ring with welded ears. Mounting ears have dual mounting holes to fit either blower mount diameter. For 4.8" diameter—9" or 10" blower mount diameter	
KIT02414	44	For 5.6" diameter motor—9" or 10" blower mount dia.	
KIT02415	27	Hub length adapter set. Each set includes two 2 1/4" resilient mounting rings and four metal outer rings to convert to 2 1/2" rings. Fits 5.0" and 5-5/8" diameter motors. Also includes 10-32 studs for adaption to 21 frame and 8-32 screws for extended studs	
KIT02416	26	Drip shield for condenser fan motors—6-3/8" dia. With 1.2" meter shaft hole for NEMA 42, 48 or 56 Z frame motors.	

# Motors

## Resilient Base Cradle Kits for PSC and Shaded Pole Motors

Each kit includes one cradle base, two base clamp assemblies, and two hub rings unless otherwise noted.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Shaft Height	Hub to Hub Length	Hub Ring Diameter
KIT02417	45	2/5/2008	4	2/1/2004
KIT02418	46	2/5/2008	4/1/2004	2/1/2004
KIT02419	35	2/5/2008	4/1/2004	2/1/2002
KIT02420	36	2/5/2008	5	2/1/2002
KIT02421	3	3	4/1/2008	2/1/2002
KIT02422	30	3	4/3/2008	2/1/2002
KIT02423	7	3	4/5/2008	2/1/2002
KIT02424	4	3	4/4/2008	2/1/2002
KIT02425	19*	3	5/1/2008	2/1/2002
KIT02426	32	3	5/3/2008	2/1/2002
KIT02427	38	3	6/1/2002	2/1/2002
KIT02428	11	3	7	2/1/2002
KIT02429	5	3/1/2002	4/1/2008	2/1/2002
KIT02430	31	3/1/2002	4/3/2008	2/1/2002
KIT02431	8	3/1/2002	4/5/2008	2/1/2002
KIT02432	6	3/1/2002	4/7/2008	2/1/2002
KIT02433	20*	3/1/2002	5/1/2008	2/1/2002
KIT02434	34	3/1/2002	5/3/2008	2/1/2002
KIT02435	37	3/1/2002	6/1/2002	2/1/2002
KIT02436	12	3/1/2002	7	2/1/2002
KIT02437	51**	3/1/2002	7/1/2002	2/1/2002

### 42 Frame PSC Totally Enclosed Condenser Fan Motors Vertical Shaft Up and Horizontal

4 Pole

SERVICEFIRST ITEM NO	DESCRIPTION	RPM/SPDS
MOT03438	1/8 HP, 208-230 volts	1100
MOT03328	1/8 HP, 230 volts	1100

### 48 Frame PSC Totally Enclosed Two-Speed Condenser Fan Motors

6 Pole

SERVICEFIRST ITEM NO	DESCRIPTION	RPM/SPDS
MOT03431	1/4 HP, 208-230 volts	1100
MOT03432	1/3 HP, 208-230 volts	1100
MOT03433	1/2 HP, 208-230 volts	1100

### 48 Frame PSC Vertical Shaft Up and Horizontal Condenser Fan Motors

4 Pole

SERVICEFIRST ITEM NO	DESCRIPTION	RPM/SPDS
MOT02360	1/2 HP, 208-230 volts	1625
MOT02366	1/2 HP, 460 volts	1625
MOT02606	1/2 HP, 575 volts	1625

6 Pole

SERVICEFIRST ITEM NO	DESCRIPTION	RPM/SPDS
MOT02362	1/4 HP, 208-230 volts	1100
MOT02370	1/4 HP, 460 volts	1100
MOT02364	1/3 HP, 208-230 volts	1100
MOT02371	1/3 HP, 460 volts	1100
MOT02604	1/3 HP, 575 volts	1100
MOT02368	1/2 HP, 208-230 volts	1100
MOT02367	1/2 HP, 460 volts	1100
MOT02605	1/2 HP, 575 volts	1100
MOT02361	3/4 HP, 208-230 volts	1100
MOT02369	3/4 HP, 460 volts	1100
MOT02607	3/4 HP, 575 volts	1100

**48 Frame PSC Vertical Shaft Up and Horizontal Condenser Fan Motors**

8 Pole

SERVICEFIRST ITEM NO	DESCRIPTION	RPM/SPDS
MOT02363	1/4 HP, 208-230 volts	825
MOT02365	1/3 HP, 208-230 volts	825
MOT02359	1/3 HP, 460 volts	825

**56 Frame PSC Condenser Fan Motors**

6 Pole

SERVICEFIRST ITEM NO	DESCRIPTION	RPM/SPDS
MOT02461	1.0 HP, 200-230/460 volts 3/4 HP, 190/380 volts	1100
MOT02462	1.5 HP, 200-230/460 volts 1.0 HP, 190/380 volts	1100

**56 Frame Three Phase Condenser Fan Motors**

6 Pole

SERVICEFIRST ITEM NO	DESCRIPTION	RPM/SPDS
MOT02463	1.0 HP, 200-230/460 volts 3/4HP, 190/380 volts	1100
MOT01826*	1.0 HP, 200-230 volts	1100
MOT01827*	1.0 HP, 460 volts	1100
MOT01174*	1.0 HP, 575 volts	1100
MOT02464	1.0 HP, 200-230/460 volts 3/4HP, 190/380 volts	1100

**Unit Bearing Fan**

Totally enclosed—shaded pole

Clockwise, lead end



SERVICEFIRST ITEM NO	VENDOR ITEM NO	HP/VOLTS	RPM/SPDS	Insul Class	Max Ambient	Shaft End Bearing	Amps	Weight
MOT06256	102	2W HP	1300	N/A	0	N/A	N/A	11 lbs
MOT06257	115	4W HP, 115 volts	1550	B		SLEEVE	0.5	12 lbs
MOT06258	119	5W HP, 115 volts	1550	B	0	SLEEVE	0.55	9 lbs
MOT06259	117	6W HP, 115 volts	1550	N/A	0	N/A	0.6	12 lbs
MOT06260	108	9W HP, 115 volts	1550					
MOT06261	110	9W HP, 230 volts	1550	B	0	SLEEVE	0.4	11 lbs
MOT06262	112	16W HP, 115 volts	1550	B	0	SLEEVE	1.1	14 lbs
MOT06263	114	16W HP, 230 volts	1550	B	0	SLEEVE	0.6	14 lbs
MOT10215	1225	6W HP, 480 volts	1550					
MOT10216	1226	6W HP, 208-240 volts	1550	N/A	40	N/A	0.27	14 lbs
MOT10217	1227	6W HP, 277 volts	1550	N/A	40	N/A	0.22	14 lbs
MOT10218	1228	5W HP, 208-240 volts	1080-1230					
MOT10219	1229	5W HP, 240-277 volts	1080-1230					

# Motors

## Unit Bearing Fan

Totally enclosed—shaded pole

Counter-clockwise, lead end

Motors

SERVICEFIRST ITEM NO	VENDOR ITEM NO	HP/VOLTS	RPM/SPDS	Insul Class	Max Ambient	Shaft End Bearing	Amps	Weight
MOT06264	103	4W HP, 115 volts	1550	N/A	0	N/A	0.5	11 lbs
MOT06265	120	5W HP, 115 volts	1550	N/A	0	N/A	0.55	9 lbs
MOT06266	116	6W HP, 115 volts	1550	N/A	0	N/A	0.6	14 lbs
MOT06267	118	9W HP, 115 volts	1550	B	0	SLEEVE	0.8	15 lbs
MOT06268	109	9W HP, 230 volts	1550	N/A		N/A	0.4	15 lbs
MOT06269	111	16W HP, 115 volts	1550	B	0	SLEEVE	1.1	14 lbs
MOT06270	113	16W HP, 230 volts	1550	B	0	SLEEVE	0.6	14 lbs



**Ball Valve Cross Reference by Mueller**

**CYCLEMASTER® Straight Thru Ball Valves**

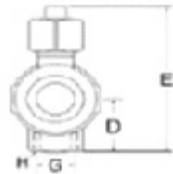


SERVICEFIRST ITEM NO	VENDOR ITEM NO	Size
VAL06880	AP17859	1/4

**Ball Valves by Mueller**

**CYCLEMASTER® Ball Valves**

**Ball Valve Seal Cap Kit\*\*\*\***



SERVICEFIRST ITEM NO	VENDOR ITEM NO	Size
CAP00905	A 17845	1 5/8

**Brass Fittings by Mueller**

**45° Flare Fittings**

**90° Elbows, Half Union - Flare to NPTFE**

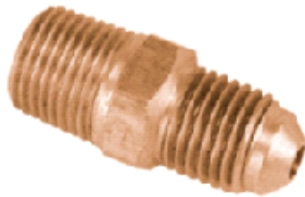


SERVICEFIRST ITEM NO	VENDOR ITEM NO	Cat No	C	D	Size		Pcs Per Ctn	Wt /Ea
					Flare A	NPTFE B		
ELL01091	A 04886	E1-6D	1 1/8	1 11/32	3/8	1/2	25	0.16
ELL00121	A 04887	E1-8D	1 9/32	1 3/8	1/2	1/2	15	0.17
ELL00009	A 04890	E1-4B	29/32	1 5/16	1/4	1/4	25	0.08
ELL00166	A 05044	E1-8B	1 7/32	1 3/16	1/2	1/4	10	0.13

**90° Elbows, Half Union - Flare to NPTFE**

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Cat No	Size		Pcs Per Ctn	Wt /Ea
			Flare A	NPTFE B		
ELL00190	A 00337	E1-6B	3/8	1/4	25	0.09

**Connectors, Half Union - Flare to NPTFE**



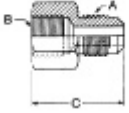
SERVICEFIRST ITEM NO	VENDOR ITEM NO	Cat No	Size		Pcs Per Ctn	Wt /Ea
			Flare A	NPTFE B		
ADP00012	A 00330	U1-4A	3/16	1/4	25	0.03
CON00255	A 00332	U1-6B	1/4	3/8	25	0.08
ADP00018	A 01197	U1-4C	1/4	1/4	25	0.07
ADP00171	A 01199	U1-6C	1/4	3/8	25	0.09
ADP00844	A 04585	U1-4B	3/16	1/4	25	0.05
UNN00832	A 04628	U1-4D	5/16	1/4	25	0.11
ADP00092	A 04780	U1-8D	5/16	1/2	10	0.15
CON01050	A 04993	U1-6D	5/16	3/8	25	0.14
UNN00836	A 05066	U1-8E	7/16	1/2	10	0.21

# Refrigeration Components

## Brass Fittings by Mueller

### 45° Flare Fittings

Connectors, Half Union - Flare to NPTFI



SERVICEFIRST ITEM NO	VENDOR ITEM NO	Cat No	Size		Hex	Pcs Per Ctn	Wt /Ea
			Flare A	NPTFE B			
ADP00957	A 04625	U3-4B	1/4	1/4	11/16	25	0.07

### Copper Flare Gaskets



SERVICEFIRST ITEM NO	VENDOR ITEM NO	Cat No	Size Flare	Pcs Per Ctn	Wt /Ea
GKT00362	A 00402	B2-6	3/8	100	0.002
GKT00502	A 00403	B2-8	1/2	100	0.002
GKT04037	A 05186	B2-10	5/8	50	0.003

### Flare Plugs



SERVICEFIRST ITEM NO	VENDOR ITEM NO	Cat No	Size	Pcs Per Ctn	Wt /Ea
			Hex		
PLU00974	A 00121		7/16	25	0.02
PLU00979	A 00122		5/8	25	0.06
PLU00975	A 00123		3/4	25	0.09

### Flare Seal Caps



Field repair damaged element sections of electric heaters. Each kit contains a specific KW replacement element, two ceramic terminal insulator sets, plated bolts, nuts and washers.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Cat No	Size		Pcs Per Ctn	Wt /Ea
			Flare	Hex		
CAP00838	A 04544	N5-4	1/4	9/16	50	0.03
CAP00885	A 04545	N5-6	3/8	3/4	25	0.05
CAP00526	A 04546	N5-8	1/2	7/8	25	0.08
CAP00972	A 04951	N5-12	3/4	15/16	10	0.21

### Flare Seal Caps – Finger Tightening



SERVICEFIRST ITEM NO	VENDOR ITEM NO	Cat No	Size Flare	Pcs Per Ctn	Wt /Ea
CAP00072	A 16447	NFT5-4	1/4	3500	0.02

### Fusible Pipe Plugs



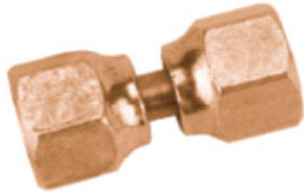
Listed by Underwriters Laboratories, Inc., for use in the USA and Canada. CE Compliant for European market.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Cat No	Size		Pcs Per Ctn	Wt /Ea
			NPTFE	Hex		
PLU00340	A 14017	FP-A	1/8	7/16	10	0.03
PLU00455	A 14058	FP-A	1/8		10	0.02

**Brass Fittings by Mueller**

**45° Flare Fittings**

**Internal Flare Swivel Unions**



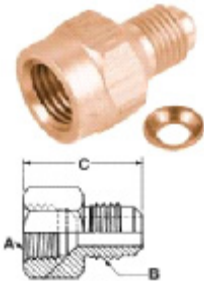
SERVICEFIRST ITEM NO	VENDOR ITEM NO	Cat No	Size		Pcs Per Ctn	Wt /Ea
			Flare	Hex		
NUT00336	A 13563	US4-4	1/4	5/8	15	0.12
CON01054	A 13565	US4-6	3/8	13/16	15	0.16

**Internal Flare to Extension Solder**



SERVICEFIRST ITEM NO	VENDOR ITEM NO	Cat No	Pcs Per Ctn	Wt /Ea
NUT00957	A 15725	US5-44	25	0.042
NUT00959	A 15727	US5-88	20	0.104
NUT00960	A 15728	US5-1010	10	0.161

**Internal Flare to External Flare Unions**



1 Soft Copper Gasket Furnished With Each Part

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Cat No	Pcs Per Ctn	Wt /Ea
CPL00896	A 00479	UR3-64	15	0.09
NUT00958	A 15726	US5-66	25	0.061
ADP00191	A 00480	UR3-84	15	0.11
ADP00916	A 00481	UR3-86	15	0.13
UNN00833	A 04888	UR3-68	15	0.12
UNN00837	A 05041	UR3-46	15	0.04
UNN00834	A 08127	UR3-48	10	0.11

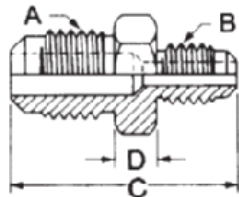
**Internal Flare Unions**



2 Soft Copper Gasket Furnished With Each Part

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Cat No	Size		Pcs Per Ctn	Wt /Ea
			Flare	Hex		
CON01284	A 00386	U4-6	3/8	13/16	10	0.12
CON01285	A 00387	U4-8	1/2	15/16	10	0.19

**Reducing Unions - Flare to Flare**



SERVICEFIRST ITEM NO	VENDOR ITEM NO	Cat No	Size		Hex	Pcs Per Ctn	Wt /Ea
			Flare A	Flare B			
UNN00830	A 00149	UR2-86	1/2	3/8	3/4	25	0.14
UNN00831	A 00356	UR2-84	1/2	1/4	3/4	15	0.12
UNN00840	A 01171	UR2-64	3/8	1/4	5/8	15	0.07

**Refrigerant Drum Adapters**



Flare to Internal Straight Pipe (NPSM) Furnished with Gasket

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Cat No	Size			Pcs Per Ctn	Wt /Ea
			Hex	Flare A	NPTFE B		
ADP01097	A 08073	K1-1	1 1/4	1/4	3/4	10	0.16
ADP01124	A 08274	K1-3	1 1/4	3/8	3/4	10	0.19
ADP00998	A 08276	K1-5	1 1/4	1/2	3/4	10	0.19

# Refrigeration Components

Refrigeration Components

## Brass Fittings by Mueller

### 45° Flare Fittings

#### Right Angle Two-Way Tees



SERVICEFIRST ITEM NO	VENDOR ITEM NO	Cat No	Size		Pcs Per Ctn	Wt /Ea
			Flare A	Flare B		
TEE00088	A 00127	T3-4A	1/4		25	0.08
TEE00080	A 04998	T3-4B	1/4	1/4	25	0.11

#### Short Forged Nuts\*



SERVICEFIRST ITEM NO	VENDOR ITEM NO	Cat No	F Flare	Size		Pcs Per Ctn	Wt /Ea
				Hex	Tube		
NUT00692	A 05052	NS4-6	3/8	13/16	3/8	25	0.06
NUT00049	A 05053	NS4-8	1/2	15/16	1/2	15	0.08
NUT00956	A 05222	NS4-12	3/4	15/16	3/4	10	0.24

#### Three-Way Tees



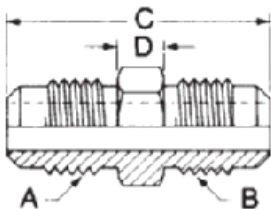
SERVICEFIRST ITEM NO	VENDOR ITEM NO	Cat No	Size Flare	Pcs Per Ctn	Wt /Ea
TEE00971	A 00342	T2-6	3/8	15	0.17

#### Two-Way Tees



SERVICEFIRST ITEM NO	VENDOR ITEM NO	Flare A	Size		Pcs Per Ctn	Wt /Ea
			NPTFE B			
TEE00085	A 04859	1/4	1/4		25	0.09

#### Unions - Flare to Flare

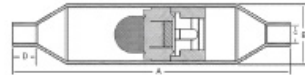


SERVICEFIRST ITEM NO	VENDOR ITEM NO	Cat No	Flare A	Size		Hex	Pcs Per Ctn	Wt /Ea
				Flare B				
UNN00821	A 00325	U2-4	1/4	1/4		7/16	25	0.04
UNN00822	A 00327	U2-6	3/8	3/8		5/8	25	0.09
UNN00828	A 00329	U2-8	1/2	1/2		3/4	15	0.15

### Check Valves by Mueller

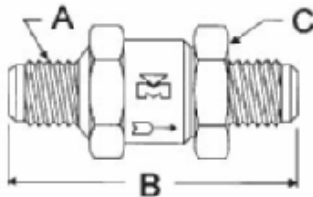
#### CMV Series Magnetic Check Valves

Nomil Tonge



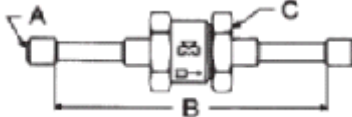
SERVICEFIRST ITEM NO	VENDOR ITEM NO	R-22	
		Suction 40° F @ 1 psi	Liquid 40° F @ 1 psi
VAL08426	A 17939	3.8	29

#### Flare to Flare



SERVICEFIRST ITEM NO	VENDOR ITEM NO	Size Flare A	Wt /Ea
VAL07257	A 15620	1/4	0.14

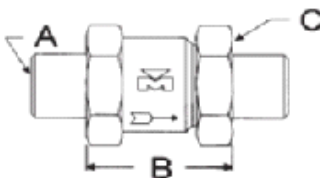
#### Solder to Solder - Extended Ends



Shipped loosely assembled.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Size Flare A	Wt /Ea
VAL07268	A 15634	1/2	0.42
VAL07269	A 15635	5/8	0.48
VAL07267	A 15633	3/8	0.17

#### Solder to Solder Shipped Loosely Assembled



SERVICEFIRST ITEM NO	VENDOR ITEM NO	Size OD A	Wt /Ea
VAL07263	A 15630	1/2	0.36
VAL07264	A 15631	5/8	0.37
VAL07262	A 15629	3/8	0.13

### Compressor Valve Cross Reference by Mueller

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Assembly No	Body
CAP00845	A 17667	A 16494	
CAP00848	A 17668	B 33771	
CAP00941	A 17907	A 15588	
VAL04163	B 33743	B 33743	A 03416 *
VAL04230	B 33745	B 33745	A 03416 *
VAL04421	B 33793	B 33793	A 06201
VAL04423	B 33795	B 33795	A 06205
VAL07643	B 33945	B 33945	N 02894
RNG01592	P 32709	B 33648	A 06205
CAP00533	P 34632	A 13166	A 04707
RNG01474	P 34711	A 15246	A 09621
RNG01591	P 35589	A 15588	A 06203
CAP00906	P 36128	A 15588	A 06203

### Compressor Valves by Mueller

#### Cast Iron Compressor Valves

4-Bolt - Cast Iron Compressor Valves

SERVICEFIRST ITEM NO	VENDOR ITEM NO	BOLT CENTERS	DIA BOLT HOLES	Flange BoltCenters	Seal CapMaterial
VAL00008	B 32337	2-1/2	17/32	2-1/8	Valox

# Refrigeration Components

## Compressor Valves by Mueller

### Cast Iron Compressor Valves

#### 4-Bolt - Cast Iron Compressor Valves



SERVICEFIRST ITEM NO	VENDOR ITEM NO	Valve	Bolt Centers	Dia Bolt Holes	Pipe Plug Size	Flange Bolt Centers	Seal Cap Material	Valve Wt
VAL00009	A 15586	A 15586	3 1/16	11/16	1/4	3 1/16	Valox	18.28
VAL00035	A 15587	A 15587	3 1/16	11/16	1/4	3 1/16	Valox	20.3
VAL00043	A 15588	A 15588	3 7/8	11/16	1/4	3 7/8	Cast Iron	33.22
VAL00042	A 15589	A 15589	4 13/16	13/16	1/4	4 13/16	Cast Iron	49.8
VAL04299	A 16366	A 16366	3 7/8	11/16	1/4	3 7/8	Cast Iron	33.18
VAL00008	B 32337	B 32337	2 1/2	17/32	1/4	2 1/8	Valox	9.07

#### 4-Bolt - Cast Iron Compressor Valves Without Flange

SERVICEFIRST ITEM NO	VENDOR ITEM NO	BOLT CENTERS	DIA BOLT HOLES	Flange BoltCenters	Seal CapMaterial
VAL07370	B 34715	3-7/8	11/16	3-7/8	Steel

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Bolt Centers	Dia Bolt Holes	Pipe Plug Size	Flange Bolt Centers	Seal Cap Material	Valve Wt
VAL04422	B 33794	3 7/8	11/16	1/4	3 7/8	Cast Iron	22.05
VAL07370	B 34715	3 7/8	11/16	1/4	3 7/8	Steel	22.05

#### Ammonia Valves

SERVICEFIRST ITEM NO	VENDOR ITEM NO	BOLT CENTERS	DIA BOLT HOLES	Flange BoltCenters	Seal CapMaterial
VAL04422	B 33794	3-7/8	11/16	3-1/16	Cast Iron

#### Straight Port - Solder Type - Plastic Cap

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Bolt Centers	Dia Bolt Holes	Pipe Plug Size	Flange Thickness
VAL00975	33367	1 3/4	11/32	1/4	1 21/64

Refrigeration Components

**Filter Driers and Sight Glass**

**ADK Block-Style Liquid-Line Filter-Drier by Emerson Flow Controls**

Use with CFC and HCFC refrigerants (R-410A through 16 CI only). ADK series. Emerson Climate Technologies Flow Controls block filter-driers are specifically designed to protect the refrigerant system from liquid and solid contaminants. They incorporate a desiccant specially formulated and blended for maximum moisture, and include advanced materials to remove acid and prevent wax buildup.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Size CI	Size	Connections In/Out
DHY00387	ADK032	3	1/4	SAE
DHY00388	ADK032S	3	1/4	ODF
DHY00389	ADK033	3	3/8	SAE
DHY00390	ADK033S	3	3/8	ODF
DHY00391	ADK052	5	1/4	SAE
DHY00392	ADK052S	5	1/4	ODF
DHY00393	ADK053	5	3/8	SAE
DHY00097	ADK053S	5	3/8	ODF
DHY00395	ADK082	8	1/4	SAE
DHY00396	ADK082S	8	1/4	ODF
DHY00825	ADK083	8	3/8	SAE
DHY00826	ADK083S	8	3/8	ODF
DHY00398	ADK084	8	1/2	SAE
DHY00827	ADK084S	8	1/2	ODF
DHY00828	ADK162	16	1/4	SAE
DHY00829	ADK163	16	3/8	SAE
DHY00830	ADK163S	16	3/8	ODF
DHY01025	ADK164	16	3/8	SAE
DHY00831	ADK164S	16	1/2	ODF
DHY00402	ADK165	16	5/8	SAE
DHY00832	ADK165S	16	5/8	ODF
DHY00834	ADK303	30	3/8	SAE
DHY00854	ADK303S	30	3/8	ODF
DHY00404	ADK304	30	1/2	SAE
DHY00835	ADK304S	30	1/2	ODF
DHY01026	ADK305	30	5/8	SAE
DHY00836	ADK305S	30	5/8	ODF
DHY00837	ADK307S	30	7/8	ODF
DHY00838	ADK309S	30	1-1/8	ODF
DHY00407	ADK413	41	3/8	SAE
DHY01022	ADK414	41	1/2	SAE
DHY00839	ADK414S	41	1/2	ODF
DHY01023	ADK415	41	5/8	SAE
DHY00840	ADK415S	41	5/8	ODF
DHY00841	ADK417S	41	7/8	ODF
DHY00842	ADK419S	41	1-1/8	ODF
DHY01024	ADK757S	75	7/8	ODF
DHY00843	ADK759S	75	1-1/8	ODF

**ADKS Liquid and Suction-Line Filter-Drier by Emerson Flow Controls**

Replaceable core filter-drier for CFC, HCFC and HFC refrigerants. Full flow fittings for low-pressure drop. Corrosion-resistant epoxy powder paint finish. Sturdy steel shells for durability.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Cu In	Connections	Full Capacity in Tons @ 1 PSI		
				R-12	R-22	R-502
DHY00127	ADKS 30013T	300	1-5/8 ODF	57	76	49
DHY00128	ADKS 30017T	300	2-1/8 ODF	69	92	59
DHY00129	ADKS 40017T	400	2-1/8 ODF	73	97	63
DHY00130	ADKS 40021T	400	2-5/8 ODF	83	110	71

# Refrigeration Components

## Filter Driers and Sight Glass

### ALF Liquid-Line Filter by Emerson Flow Controls

Liquid-line filter ideal for protecting solenoid and expansion valves from debris.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Size CI	Size	Connections In
FLR03842	ALF 032 MF	3	1/4"	SAE Male
FLR03841	ALF 032 FM	3	1/4"	SAE Female
FLR03843	ALF 032 S	3	1/4"	ODF
FLR03844	ALF 032 3	3	1/4"	SAE Male
FLR03845	ALF 033 S	3	3/8"	ODF
FLR03846	ALF 034 S	3	1/2"	ODF

### AMI Moisture Indicators by Emerson Flow Controls



AMI Series. Single indicator for all common refrigerants. Accurate color calibration (safe, caution, unsafe). Wide-angle viewing. Straight-through flow pattern. High visibility. Exclusive fused-glass eyepiece; no leakage. Easy assembly with standard wrench. Simple O-ring seal construction. Forged solid brass body. SWP: 500 PSI. Burst pressure: 2500 PSI. For CFC, HCFC, and HFC refrigerants including R-410A.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
GLS00122	AMI-1MU5	5/8 SAE
GLS00125	AMI-1SS2	1/4 SAE
GLS00126	AMI-1SS3	3/8 ODF
GLS00127	AMI-1SS4	1/2 ODF
GLS00128	AMI-1SS5	5/8 ODF
GLS00129	AMI-1SS7	7/8 ODF
GLS00130	AMI-1SS9	1-1/8 ODF
GLS00132	AMI-1SU3	3/8 ODF x 3/8 SAE
GLS00842	AMI-1 TT 11 STD	1-3/8 ODF

### Acid Test Kit by Emerson Flow Controls



The Emerson Climate Technologies Flow Controls Universal Acid Test Kit is a quick and easy test kit for use with all types of refrigeration oils, including polyolester (POE) oils. It contains two bottles and a four-step procedure to provide consistent test results. By changing the percentage of oil sample taken, the acid number of the oil can be accurately determined. The phase separation provides a positive color change regardless of the color or condition of oil. Each kit contains everything needed to conduct one test. When in doubt, use the ACID ALERT UNIVERSAL REFRIGERATION OIL TEST KIT.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
KIT06815	AA KIT Universal	Universal Acid Test Kit, POE & Mineral Oil

### ASD Suction-Line Filter-Drier by Emerson Flow Controls



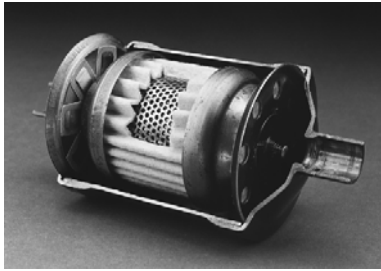
ASD series. Emerson Climate Technologies Flow Controls ASD suction-line filter-driers incorporate the protective filter plus a desiccant specially blended for maximum moisture and acid removal. Compressor manufacturers recommend the installation of suction-line filter-driers to protect their equipment from contaminants left in the system after a burnout.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Size CI	Size	Connections In/Out	STD Pack
DHY00361	ASD28F3	28	3/8"	SAE Male	10
DHY00174	ASD28S3 VV	28	3/8"	ODF	10
DHY00175	ASD28S4 VV	28	1/2"	ODF	10
DHY00176	ASD35F5 VV	35	5/8"	SAE Male	10
DHY00177	ASD35S5 VV	35	5/8"	ODF	10
DHY00178	ASD45S6 VV	45	3/4"	ODF	10
DHY00179	ASD45S7 VV	45	7/8"	ODF	10
DHY00180	ASD50S9 VV	50	1-1/8"	ODF	10
DHY00181	ASD75S11 VV	75	1-3/8"	ODF	6
DHY00182	ASD75S13 VV	75	1-5/8"	ODF	6



**Filter Driers and Sight Glass**

**BFK Liquid-Line Bi-Directional Heat Pump Filter-Drier by Emerson Flow Controls**



For use with CFC, HCFC, HFC refrigerants.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Size CI	Size	Connections In/Out
DHY00325	BFK0825S	8	5/16"	ODF
DHY00098	BFK083	8	3/8"	SAE Male
DHY00099	BFK083S	8	3/8"	ODF
DHY00809	BFK084	8	1/2"	SAE Male
DHY00101	BFK084S	8	1/2"	ODF
DHY00103	BFK085S	8	5/8"	ODF
DHY00104	BFK163	16	3/8"	SAE Male
DHY00105	BFK163S	16	3/8"	ODF
DHY00106	BFK164	16	1/2"	SAE Male
DHY00107	BFK164S	16	1/2"	ODF
DHY00108	BFK165	16	5/8"	SAE Male
DHY00109	BFK165S	16	5/8"	ODF
DHY00970	BFK307S	30	7/8"	ODF

**BOK Liquid-Line Burnout Filter-Drier by Emerson Flow Controls**

HH blended solid core for burnout cleanup. Charcoal blend for contaminant and wax removal.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Size CI	Size	Connections In/Out
DHY00887	BOK-082-HH	8	1/4"	SAE Male
DHY00888	BOK-083-HH	8	3/8"	SAE Male
DHY00889	BOK-162-HH	16	1/4"	SAE Male
DHY00890	BOK-163-HH	16	3/8"	SAE Male
DHY00891	BOK-163S-HH	16	3/8"	ODF
DHY00892	BOK-164-HH	16	1/2"	SAE Male
DHY00893	BOK-164S-HH	16	1/2"	ODF
DHY00894	BOK-165-HH	16	5/8"	SAE Male
DHY00895	BOK-165S-HH	16	5/8"	ODF
DHY00201	BOK-303-HH	30	3/8"	SAE Male
DHY00326	BOK-303S-HH	30	3/8"	ODF
DHY00898	BOK-304-HH	30	1/2"	SAE Male
DHY00810	BOK-304S-HH	30	1/2"	ODF
DHY00896	BOK-305-HH	30	5/8"	SAE Male
DHY00328	BOK-305S-HH	30	5/8"	ODF
DHY00897	BOK-414-HH	40	1/2"	SAE Male
DHY00207	BOK-415-HH	40	5/8"	SAE Male
DHY00208	BOK-417S-HH	40	7/8"	ODF

**CSFD Suction-Line Filter Drier Compact With Access Valves by Emerson Flow Controls**



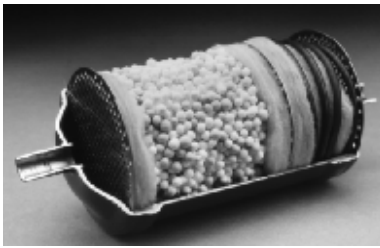
The Emerson Climate Technologies Flow Controls CSFD filter-drier should be used for motor-burnout cleanup applications. It uses a molded desiccant core block that effectively removes and holds a maximum amount of contaminants with a minimum pressure drop. Compressor manufacturers recommend the installation of suction-line filter-driers to protect their equipment from contaminants left in the system after a burnout.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Size	Connections Type
DHY00811	CSFD-144SVV	1/2"	ODF
DHY00812	CSFD-145SVV	5/8"	ODF
DHY00813	CSFD-146SVV	3/4"	ODF
DHY00814	CSFD-147SVV	7/8"	ODF
DHY00815	CSFD-149SVV	1 1/8"	ODF

# Refrigeration Components

## Filter Driers and Sight Glass

### Extra-Klean Liquid-Line Compact-Bead Filter-Drier by Emerson Flow Controls



Approved for POE Oils. Premium universal replacement liquid-line filter-drier for CFC, HCFC AND HFC refrigerants including R-410A (R-410A through 16 CI only).

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Size CI	Connection Size	Connections In	Connections Out
DHY00131	EK032	3	1/4"	SAE Male	
DHY00816	EK032MF	3	1/4"	SAE Male	SAE Female
DHY00133	EK032FM	3	1/4"	SAE Female	SAE Male
DHY00132	EK032S	3	1/4"	ODF	
DHY00135	EK033	3	3/8"	SAE Male	
DHY00136	EK033S	3	3/8"	ODF	
DHY00137	EK052	5	1/4"	SAE Male	
DHY00138	EK052S	5	1/4"	ODF	
DHY00817	EK052MF	5	1/4"	SAE Male	SAE Female
DHY00139	EK053	5	3/8"	SAE Male	
DHY00140	EK053S	5	3/8"	ODF	
DHY00141	EK082	8	1/4"	SAE Male	
DHY00142	EK082S	8	1/4"	ODF	
DHY00324	EK0825S	8	5/16"	ODF	
DHY00143	EK083	8	3/8"	SAE Male	
DHY00144	EK083S	8	3/8"	ODF	
DHY00145	EK084	8	1/2"	SAE Male	
DHY00146	EK084S	8	1/2"	ODF	
DHY00147	EK162	16	1/4"	SAE Male	
DHY00148	EK162S	16	1/4"	ODF	
DHY00818	EK1625S	16	5/16"	ODF	
DHY00149	EK163	16	3/8"	SAE Male	
DHY00150	EK163S	16	3/8"	ODF	
DHY00151	EK164	16	1/2"	SAE Male	
DHY00152	EK164S	16	1/2"	ODF	
DHY00153	EK165	16	5/8"	SAE Male	
DHY00154	EK165S	16	5/8"	ODF	
DHY00155	EK167S	16	7/8"	ODF	
DHY00156	EK303	30	3/8"	SAE Male	
DHY00157	EK303S	30	3/8"	ODF	
DHY00158	EK304	30	1/2"	SAE Male	
DHY00159	EK304S	30	1/2"	ODF	
DHY00160	EK305	30	5/8"	SAE Male	
DHY00161	EK305S	30	5/8"	ODF	
DHY00819	EK306S	30	3/4"	ODF	
DHY00820	EK307S	30	7/8"	ODF	
DHY00821	EK309S	30	1-1/8"	ODF	
DHY00165	EK413	40	3/8"	SAE Male	
DHY00166	EK414	40	1/2"	SAE Male	
DHY00167	EK414S	40	1/2"	ODF	
DHY00168	EK415	40	5/8"	SAE Male	
DHY00169	EK415S	40	5/8"	ODF	
DHY00170	EK417S	40	7/8"	ODF	
DHY00171	EK419S	40	1-1/8"	ODF	
DHY00172	EK757S	70	7/8"	ODF	
DHY00173	EK759S	70	1-1/8"	ODF	

## Filter Driers and Sight Glass

### Filter-Drier Cores by Emerson Flow Controls



For ADKS and STAS shells. System protectors. Take-a-part liquid and suction cores. 12 per pack unless otherwise noted.

D-48 Standard Capacity Block-The block provides system protection from water and acids in the majority of general-purpose applications. It is used singly or in multiples in shells of 48 through 192 cubic inches.

H-48 and 100 High Capacity Block-The filter-drier block similar to the SC-48, except with much greater water capacities for critical applications or where system conditions indicate the presence of an abnormal amount of water.

W-48 and 100 Burnout Block-A filter-drier block possessing water capacities comparable to the high capacity block, and also featuring activated carbon to afford optimum contaminant cleanup following a motor burnout. This ingredient also provides wax and resin control on R-22 and R-502 low-temperature applications.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Refrigerant	Function
COR00018	D-48	CFC, HCFC	High acid removal
COR00019	H-48	CFC, HCFC	High acid and water removal
COR00020	W-48-HH	CFC, HCFC, HFC	Burnout cleanup
COR00021	H-100	CFC, HCFC	High acid and water removal
COR00022	W-100-HH	CFC, HCFC, HFC	Burnout cleanup
COR00049	RH-48		Recycling block high water capacity
COR00051	RD-48		Recycling block high acid capacity
COR00052	H-42	CFC, HCFC	High acid and water removal
COR00057	UK-48	CFC, HCFC, HFC	Universal replacement
COR00067	F-48R	CFC, HCFC, HFC	Filter (suction only)
KIT07667	F-100	CFC, HCFC, HFC	Filter (suction only)

### HMI Moisture Indicators by Emerson Flow Controls

100% hermetic design. Premium 3% high accuracy moisture indicator of CFC, HCFC, and HFC refrigerants including R-410A. Wide angle viewing/high window for ease of monitoring, all brass corrosion-resistant body, solid copper fittings.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
GLS00878	HMI-1MM2	1/4" male flare × male flare
GLS00879	HMI-1MM3	3/8" male flare × male flare
GLS00880	HMI-1MM4	1/2" male flare × male flare
GLS00881	HMI-1MM5	5/8" male flare × male flare
GLS00882	HMI-1FM2	1/4" female flare × male flare
GLS00883	HMI-1FM3	3/8" female flare × male flare
GLS00884	HMI-1FM4	1/2" female flare × male flare
GLS00885	HMI-1MU2	1/4" male flare × female flare swivel nut
GLS00886	HMI-1MU3	3/8" male flare × female flare swivel nut
GLS00887	HMI-1MU4	1/2" male flare × female flare swivel nut
GLS00888	HMI-1FU4	1/2" female flare × female flare swivel nut
GLS00889	HMI-1TT2	1/4" sweat × sweat (OD female)
GLS00890	HMI-1TT3	3/8" sweat × sweat (OD female)
GLS00891	HMI-1TT4	1/2" sweat × sweat (OD female)
GLS00892	HMI-1TT5	5/8" sweat × sweat (OD female)
GLS00893	HMI-1TT7	7/8" sweat × sweat (OD female)
GLS00894	HMI-1TT9	1-1/8" sweat × sweat (OD female)

### SFD Suction-Line Filter-Drier Series For Residential/Light Commercial by Emerson Flow Controls

SFD series. Emerson Climate Technologies Flow Controls SFD suction-line filter-driers incorporate a protective filter, plus a desiccant specially blended for maximum moisture and acid removal. Compressor manufacturers recommend the installation of suction-line filter-driers to protect their equipment from contaminants left in the system after a burnout.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Size CI	Size	Connections In/Out
DHY00284	SFD-13F3-W	13	3/8"	ODF
DHY00235	SFD-13S3-W	13	3/8"	ODF
DHY00236	SFD-13S4-W	13	1/2"	ODF
DHY00237	SFD-13S5-W	13	5/8"	ODF
DHY00238	SFD-13S6-W	13	3/4"	ODF
DHY00239	SFD-13S7-W	13	7/8"	ODF
DHY00240	SFD-27S7-W	27	7/8"	ODF
DHY00241	SFD-27S9-W	27	1-1/8"	ODF
DHY00242	SFD-54S11-W	54	1-3/8"	ODF
DHY00243	SFD-54S13-W	54	1-5/8"	ODF

# Refrigeration Components

## Filter Driers and Sight Glass

### Spun-Copper Solid-Core Liquid-Line Filter-Drier by Emerson Flow Controls

Use with CFC, HCFC and HFC refrigerants. Superior corrosion resistance in ocean-going vessels and coastal applications.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Size CI	Connections In/Out	Connection Size
DHY00939	CU083S STD	8	ODF	3/8"
DHY00957	CU084S STD	8	ODF	1/2"
DHY00940	CU163S STD	16	ODF	3/8"
DHY00958	CU164S STD	16	ODF	1/2"

### Steel Replaceable Core Shells by Emerson Flow Controls

Simplified internal hardware for ease of installation. Full-flow fittings for low pressure drop. Corrosionresistant epoxy paint finish. Rugged steel shells for durability. Maximum working pressure: 500 PSIG-T (LL); 400 PSIG-Sr(SL).

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Connections	Full Capacity in Tons @ 1 PSI			Size CI
			R-12	R-22	R-502	
DHY00110	STAS 485T	5/8 ODF	15	21	13	48
DHY00111	STAS 487T	7/8 ODF	28	38	24	48
DHY00112	STAS 489T	1-1/8 ODF	40	53	34	48
DHY00113	STAS 4811T	1-3/8 ODF	46	61	39	48
DHY00115	STAS 967T	7/8 ODF	31	41	26	96
DHY00116	STAS 969T	1-1/8 ODF	47	63	40	96
DHY00117	STAS 9611T	1-3/8 ODF	59	79	51	96
DHY00118	STAS 9613T	1-5/8 ODF	64	85	55	96
DHY00342	A-TD-9625S-V	3-1/8 ODF	71	95	61	96
DHY00120	STAS 1449T	1-1/8 ODF	46	61	39	144
DHY00121	STAS 14411T	1-3/8 ODF	66	88	57	144
DHY00122	STAS 14413T	1-5/8 ODF	73	97	63	144
DHY00123	STAS 14417T	2-1/8 ODF	84	112	72	144
DHY00124	STAS 19211T	1-3/8 ODF	71	94	61	192
DHY00125	STAS 19213T	1-5/8 ODF	77	103	66	192
DHY00126	STAS 19217T	2-1/8 ODF	87	115	74	192

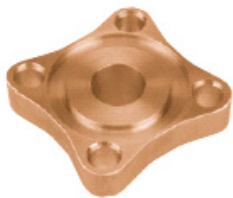
### UDK Liquid-Line Filter-Drier Solid Core by Emerson Flow Controls

Emerson Climate Technologies Flow Controls UDK solid-core filter-drier, blended for use with all refrigerants (CFC, HCFC, HFC) including R-410A. Specifically designed to protect the refrigerant system from liquid and solid contaminants. They incorporate a desiccant specially formulated and blended for maximum moisture, and include advanced materials to remove acid and prevent wax buildup.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Size CI	Size	Connections Type
DHY00882	UDK-083S	8	3/8"	ODF
DHY00883	UDK-084S	8	1/2"	ODF
DHY00884	UDK-163S	16	3/8"	ODF
DHY00885	UDK-164S	16	1/2"	ODF

### Flanges - Solder Type by Mueller

#### Flanges – Forged Brass – 4 Bolt-Hole with Groove



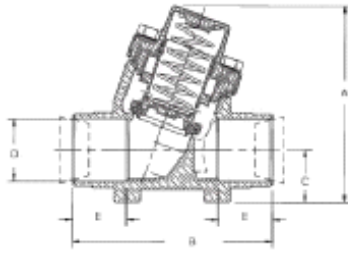
SERVICEFIRST ITEM NO	VENDOR ITEM NO	Description
GKT03970	A 08634	Gasket - Asbestos-free material

#### Gaskets – 2 Bolt-Hole



SERVICEFIRST ITEM NO	VENDOR ITEM NO	Bolt Hole Centers D	Wt /Ea	Dia Of Bolt Holes
GKT01611	N 02308	15/8	0.004	11/32

Four-Bolt Check Valves by Mueller

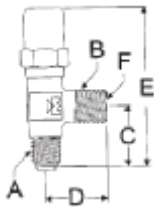


SERVICEFIRST ITEM NO	VENDOR ITEM NO	Cv	Size	Weight	Replacement Components		
					10 lb Spring	20 lb Spring	Gasket
VAL07258	B 34235	5.05			*	P 35656	P 35859
VAL07115	B 34236	5.05	1 1/8	2.31	P 35657	*	P 35709
VAL07292	B 34238	10.06	1 5/8	5.04	P 35657	*	P 35689

Packed Line Valves by Mueller

Angle Non-Backseating - Flare to NPTFE

Angle Non-backseating - Flare To NPTFE



SERVICEFIRST ITEM NO	VENDOR ITEM NO	C	D	E	COUNTERBORE DIMENSION (F*)		WT/ EA
					Dia	Depth	
VAL00979	A 15073	15/16	1	3	0.254	8-Mar	27

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Counterbore Dimensions (F)		Size		Wt /Ea
		Dia	Flare A	MPT B		
SET00030	A 15073	38	1/4	1/4		0.27

Angle Non-Backseating - NPTFE Inlet to Flare†

Angle Non-backseating - NPTFE Inlet To Flare†

SERVICEFIRST ITEM NO	VENDOR ITEM NO	C	D	E	COUNTERBORE DIMENSION (F*)		WT/ EA
					Dia	Depth	
VAL00015	A 11031	1	15/16	3/3/1964	0.254	16-May	0.26
VAL07938	A 11030	1/1/2016	1/1/2008	3/3/1932	0.317	8-Mar	0.31
VAL00031	A 13503	1/1/2008	1/1/2008	3/3/1932	0.379	10-May	0.33

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Counterbore Dimensions (F)		Size		Wt /Ea
		Dia	Depth	Flare B	MPT A	
VAL00015	A 11030	0.317	38	38	1/4	0.31

Packless Diaphragm Valves by Mueller

Straight Thru - Flare to Flare - Type I - Class IV



SERVICEFIRST ITEM NO	VENDOR ITEM NO	SIZE	B	C	WT/ EA
VAL00658	A 14833	0.25	1.3125	1.375	0.75

# Refrigeration Components

## Refrigeration Valves

### A-Series Thermo Expansion Valve, Universal Replacement, By Emerson Flow Controls

The HAA charge is a special high-stability charge designed for R-22 HVAC applications. The HAA widerange charge provides greater superheat stability, allowing (in most cases) two valves to cover a wide range of capacities from 1 to 5 tons. The HAA charge is now available for "A" series expansion valves for R-22 applications.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
VAL07065	AACE 2-1/2	HAA ODF EE 30", 3/8 x 1/2 ODF S/T 6A, R-22 capacity range 1 to 3 tons
VAL07066	AACE 5	HAA ODF EE 30", 3/8 x 1/2 ODF S/T 6A, R-22 capacity range 3 1/2 to 5 tons
VAL07067	AACE 2-1/2	HAA cap tube EE w/nut 30" chatleff x chatleff S/T 6A
VAL07068	AACE 5	HAA cap tube EE w/nut 30" chatleff x chatleff S/T 6A

### Ball Valves by Emerson Flow Controls

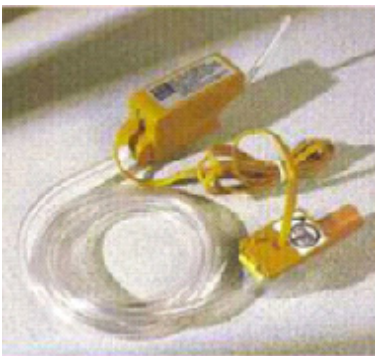
#### With Access Fitting

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
AL06651	935203	Ball, full port, 3/8" odf
AL06653	935204	Ball, full port, 1/2" odf
AL06655	935205	Ball, full port, 5/8" odf
AL06657	935307	Ball, full port, 7/8" odf
AL06659	935409	Ball, full port, 1-1/8" odf
AL06641	935511	Ball, full port, 1-3/8" odf
AL06643	925613	Ball, full port, 1-5/8" odf
AL06645	935717	Ball, full port, 2-1/8" odf
AL06647	935721	Ball, 2-5/8" odf
AL06649	935725	Ball, 3-1/8" odf

#### Without Access Fitting

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
VAL06650	905203	Ball, full port, 3/8" odf
VAL06652	905204	Ball, full port, 1/2" odf
VAL06654	905205	Ball, full port, 5/8" odf
VAL06656	905307	Ball, full port, 7/8" odf
VAL06658	905409	Ball, full port, 1-1/8" odf
VAL06640	905511	Ball, full port, 1-3/8" odf
VAL06642	905613	Ball, full port, 1-5/8" odf
VAL06644	905717	Ball, full port, 2-1/8" odf
VAL06646	905721	Ball, 2-5/8" odf
VAL06648	905725	Ball, 3-1/8" odf

### Gas Shut Off Valve by Rub, Inc.



Brass body, Blow-out proof stem, .500 NPTI, Maximum working pressure 450 PSI, Temperature rating - 32°F to + 35°F.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
VAL06748	195D41	1/2" NPTF
VAL06749	1.95E+43	3/4" NPTF
VAL06750	195F41	1" NPTF

**Refrigeration Valves**

**Gas Valves by Rub**

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
VAL06748	195D41	Valve; ball, .500 NPTI, 450 PSI, -40°F TO +350°F, brass body, 1/2" NPTF (AGA)
VAL06749	1.95E+43	Valve; ball, .500 NPTI, 450 PSI, -40°F TO +350°F, brass body, 3/4" NPTF (AGA)
VAL06750	195F41	Valve; ball, .500 NPTI, 450 PSI, -40°F TO +350°F, brass body, 1" NPTF (AGA)

**HFK Balanced Port Thermo Expansion Valve by Emerson Flow Controls**

**Body Selection**

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
BOD00819	KT-20298-1	HFK, 1/4x 1/2SAE Ang Inlet,
BOD00820	KT-20298-2	HFK, 3/8x 1/2SAE Ang Inlet,
BOD00821	KT-20298-3	HFKE, 1/4x 1/2SAE Ang Inlet
BOD00822	KT-20298-4	HFKE, 3/8x 1/2SAE Ang Inlet
BOD00823	KT-20298-5	HFKSC, 3/8x 1/2ODF Ang Inlet W/Strainer
BOD00824	KT-20298-6	HFKESC, 3/8x 1/2 ODF Ang Inlet W/Strainer
BOD00825	KT-20298-7	HFKS, 3/8x 1/2ODF S/T
BOD00826	KT-20298-8	HFKS, 3/8x 5/8ODF S/T
BOD00827	KT-20298-9	HFKS, 1/2x 5/8ODF S/T
BOD00828	KT-20298-10	HFKS, 1/2x 7/8ODF S/T
BOD00829	KT-20298-11	HFKES, 3/8x 1/2ODF S/T
BOD00830	KT-20298-12	HFKES, 3/8x 5/8ODF S/T
BOD00831	KT-20298-13	HFKES, 1/2x 5/8ODF S/T
BOD00832	KT-20298-14	HFKES, 1/2x 7/8ODF S/T

**Cage Selection**

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
CAG00127	KT-20299-0	Cage, Assembly, HFK Expansion Valve Series, Cage Code 0
CAG00128	KT-20299-1	Cage, Assembly, HFK Expansion Valve Series, Cage Code 1
CAG00129	KT-20299-2	Cage, Assembly, HFK Expansion Valve Series, Cage Code 2
CAG00130	KT-20299-3	Cage, Assembly, HFK Expansion Valve Series, Cage Code 3
CAG00131	KT-20299-4	Cage, Assembly, HFK Expansion Valve Series, Cage Code 4
CAG00132	KT-20299-5	Cage, Assembly, HFK Expansion Valve Series, Cage Code 5
CAG00133	KT-20299-6	Cage, Assembly, HFK Expansion Valve Series, Cage Code 6
CAG00134	KT-20299-7	Cage, Assembly, HFK Expansion Valve Series, Cage Code 7

**HFK Kit Accessories**

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
TOL01494	KT-20304	Tool, HFK Insertion
BOT00009	OIL BOTTLE	Bottle, HFK Oil
BOX01428	KT-20302-1	Box, HFK Service
BOX01429	KT-20303	Box, Replacement (Empty), For HFK Cage (Empty)

**HFK Pre-Packaged Kits**

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
KIT07521	KT-20300-1	HFK SAE Service, KT-20300-1
KIT07522	KT-20300-2	HFK ODF Service, KT-20300-2
KIT07523	KT-20300-3	HFK ODF/SAE Service, KT-20300-3
KIT07524	KT-20301-1	HFK Cage KT-20301-1

# Refrigeration Components

## Refrigeration Valves

### HFK Balanced Port Thermo Expansion Valve by Emerson Flow Controls

#### Power Element Selection

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
HED00346	X-26300-FW 35-1	Head, Power Element HF Series, FW 35-1, R-12
HED00631	X-26300-HW 100-1	Head, Power Element HF Series, R-22, HW 100
HED00214	X-26300-HCA-1	Head, Power Element HF Series, R-22
HED00635	X-26300-SW 45-1	Head, Power Element HF Series, SW 45-1, R404A
HED00344	X-26300-FC-1	Head, Power Element HF Series, FC-1, R-12
HED00348	X-26300-HC-1	Head, Power Element HF Series, HC-1, R-22
HED00634	X-26300-SC-1	Head, Power Element HF Series, SC-1, R404A
HED00347	X-26300-FZ-1	Head, Power Element HF Series, FZ-1, R-12
HED00351	X-26300-HZ-1	Head, Power Element HF Series, HZ-1, R-22
HED00633	X-26300-SZ-1	Head, Power Element HF Series, SZ-1, R404A

### Holding Coils by Emerson Flow Controls

SERVICEFIRST ITEM NO	DESCRIPTION
COL03779	24 Volt, 50/60 Hz
COL03780	120 Volt, 50/60 Hz
COL03781	208/240 Volt, 50/60 Hz
COL03782	480 Volt, 50/60 Hz

### Replacement Power Heads by Emerson Flow Controls

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
HED00013	XB1019HW-1B	1/2 through 18 ton R-22, 5' capacity tube
HED00015	XC726HW-2B	22 through 100 ton R-22, 10' capacity tube

### Reversing Valves by Emerson Flow Controls



SERVICEFIRST ITEM NO	VENDOR ITEM NO	System Size	Connection Discharge	Connection Suction
VAL06010	RV3F45D1	3.1	1/2" ODF	5/8" ODF

### Thermostatic Expansion Valves Take -A- Part Series by Emerson Flow Controls

Take-a-part series, integral brass construction, Take-a-part straight-through and angle style, interchangeable power head and cages with universal bulb charge. Valve assemblies, less flange. Includes power assembly, cage, and cap screws. External superheat adjustment in both straight-through and angle connections.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	System Size	Capacity Tube
VAL03013	TCLE2HW	2	5'
VAL03014	TCLE3HW	3	5'
VAL03015	TCLE5HW	5	5'
VAL03016	TCLE7½HW	7.5	5'
VAL03017	TCLE10HW	10	5'
VAL03018	TCLE12HW	12	5'
VAL03019	TJRE14HW	14	5
VAL03020	TJRE18HW	18	5'
VAL03021	TER22HW	22	10'
VAL03022	TER26HW	26	10'
VAL03023	TER35HW	35	10'
VAL03024	TER45HW	45	10'
VAL03025	TIR55HW	55	10'
VAL03026	THR75HW	75	10'
VAL03027	THR100HW	100	10'



**Refrigeration Valves**

**Thermostatic Expansion Valves, Universal Replacement by Emerson Flow Controls**



Integral brass body construction. Straight-through line construction. Stainless-steel diaphragm construction. External superheat adjustment. 1/4" SAE external equalizer. Five-foot standard-length remote bulb with charge for air-conditioner and heat pump applications.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	System Size	Connection Discharge	Connection Suction
VAL02368	AAEB1HCA	1	3/8"	1/2"
VAL02369	AAEB11/2HCA	1.5	3/8"	1/2"
VAL02370	AAEB2HCA	2	3/8"	1/2"
VAL02371	AAEB21/2HCA	2.5	3/8"	1/2"
VAL02372	AAEB3HCA	3	3/8"	1/2"
VAL02373	AAEB4HCA	4	3/8"	1/2"
VAL02374	AAEB4HCA	4	3/8"	5/8"
VAL02375	AAEB4HCA	4	1/2"	7/8"
VAL02376	AAEB5HCA	5	3/8"	1/2"
VAL02377	AAEB5HCA	5	1/2"	5/8"
VAL02378	AAEB5HCA	5	1/2"	7/8"
VAL06605	TRAE+10HCA	10	1/2"	7/8"
VAL06606	TRAE+10HCA	10	5/8"	7/8"
VAL06607	TRAE+15HCA	15	5/8"	7/8"
VAL06608	TRAE+15HCA	15	5/8"	1-1/8"
VAL06609	TRAE+20HCA	20	5/8"	1-1/8"
VAL06610	TRAE+20HCA	20	7/8"	1-1/8"
VAL06611	TRAE+20HCA	20	7/8"	1-3/8"
VAL06612	TRAE+30HCA	30	7/8"	1-1/8"
VAL06613	TRAE+30HCA	30	7/8"	1-3/8"
VAL06614	TRAE+40HCA	40	7/8"	1-1/8"
VAL06615	TRAE+40HCA	40	1-1/8"	1-3/8"
VAL02391	TRAE50HW	50	1-1/8"	1-3/8"
VAL02392	TRAE60HW	60	1-1/8"	1-3/8"
VAL02393	TRAE70HW	70	1-1/8"	1-3/8"

**Thermostatic Expansion Valves/Flange by Emerson Flow Controls**



Angle-style flanges for Emerson Climate Technologies Flow Controls Take-A-Part Expansion Valves.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	VALVE TYPE	SIZE AND STYLE INLET	CONNECTIONS OUTLET	CAP SCREWS
FLG00240	C-500-4	TL(E) & TCL(E)	3/8" SAE	1/2" SAE	SCR01025
FLG00241	C-500-5	TL(E) & TCL(E)	3/8" SAE	5/8" SAE	SCR01025
FLG00242	C-500-6	TL(E) & TCL(E)	1/2" SAE	5/8" SAE	SCR01025
FLG00243	C-501-1	TL(E) & TCL(E)	1/4" ODF	3/8" ODF	SCR01025
FLG00244	C-501-4	TL(E) & TCL(E)	3/8" ODF	1/2" ODF	SCR01025
FLG00245	C-501-5	TL(E) & TCL(E)	3/8" ODF	5/8" ODF	SCR01025
FLG00246	C-501-7	TL(E) & TCL(E)	1/2" ODF 5/8" ODF	5/8" ODF 7/8" ODF	SCR01025
FLG00263	9153	TER	7/8" ODF 1-1/8" ODM	7/8" ODF 1-1/8" ODM	SCR01027
FLG00267	9149	THR	1-1/8" ODM	1-1/8" ODM	SCR01028
FLG00265	9151	TIR	7/8" ODF 1-1/8" ODM	7/8" ODF 1-1/8" ODM	SCR01028
FLG00571	B-504	TJLE	5/8" ODF 7/8" ODM	7/8" ODF 1-1/8" ODM	
FLG00261	10331	TJRE	7/8" ODF 1-1/8" ODM	7/8" ODF 1-1/8" ODM	SCR01027

# Refrigeration Components

## Refrigeration Valves

### Thermostatic Expansion Valves/Flange by Emerson Flow Controls

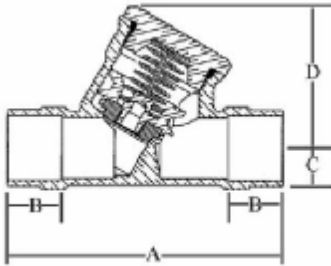
#### Straight-thru Style

SERVICEFIRST ITEM NO	VENDOR ITEM NO	VALVE TYPE	SIZE AND STYLE INLET	CONNECTIONS OUTLET
FLG00248	X6669-4	TL(E) & TCL(E)	3/8" SAE	1/2" SAE
FLG00249	X6669-1	TL(E) & TCL(E)	3/8" SAE	5/8" SAE
FLG00250	X6669-5	TL(E) & TCL(E)	1/2" SAE	1/2" SAE
FLG00251	X6669-2	TL(E) & TCL(E)	1/2" SAE	5/8" SAE
FLG00252	9761-5	TL(E) & TCL(E)	3/8" ODF	1/2" ODF
FLG00253	9761-3	TL(E) & TCL(E)	3/8" ODF	5/8" ODF
FLG00254	9761-69	TL(E) & TCL(E)	1/2" ODF	1/2" ODF
FLG00255	9761-4	TL(E) & TCL(E)	1/2" ODF	5/8" ODF
FLG00256	9761-2	TL(E) & TCL(E)	1/2" ODF	7/8" ODF
FLG00257	X-6346-16	TL(E) & TCL(E)	5/8" ODF	5/8" ODF
FLG00258	X-6346-17	TL(E) & TCL(E)	5/8" ODF	7/8" ODF
FLG00259	X-6346-18	TL(E) & TCL(E)	5/8" ODF	1-1/8" ODF
FLG00260	X-6346-34	TL(E) & TCL(E)	7/8" ODF	1-1/8" ODF
FLG00264	9152	TER	7/8" ODF 1-1/8" ODM	7/8" ODF 1-1/8" ODM
FLG00268	9148	THR	1-1/8" ODM	1-1/8" ODM
FLG00266	9150	TIR	7/8" ODF 1-1/8" ODM	7/8" ODF 1-1/8" ODM
FLG00582	X-6347-2	TJLE	5/8" ODF	1-1/8" ODF
FLG00583	X-6347-6	TJLE	7/8" ODF	1-1/8" ODF
FLG00584	X-6347-7	TJLE	7/8" ODF	1-3/8" ODF
FLG00262	10332	TJRE	7/8" ODF 1-1/8" ODM	7/8" ODF 1-1/8" ODM

Refrigeration Components

### Screw Bonnet Check Valve by Mueller

#### Extended Ends

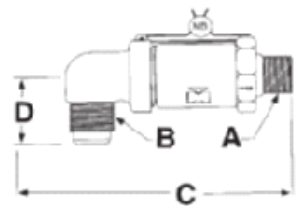


SERVICEFIRST ITEM NO	VENDOR ITEM NO	Cv	Size	Replacement Springs	
				5 lbs	10 lbs
VAL07925	AT17955	*	1/2	P 36542	P 36543

### System Protection Devices by Mueller

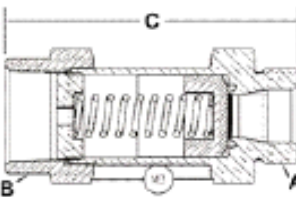
#### Pressure Relief Valves

##### Angle - NPTFE to Flare



SERVICEFIRST ITEM NO	VENDOR ITEM NO	CE Valve	C		Wt Ea	
			(in)	(cm)	(lb)	(kg)
VAL00079	A 15514	B 35114	4 3/32	10.40	0.98	0.45
VAL02827	AE15514	B 35114	4 3/32	10.40	0.98	0.45

##### Straight Thru - NPTFE Inlet to Flare

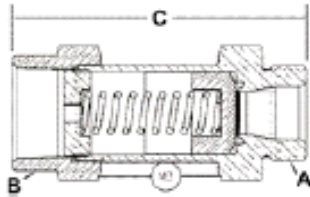


SERVICEFIRST ITEM NO	VENDOR ITEM NO	ASME Valve	CE Valve	C		Wt Ea	
				(in)	(cm)	(lb)	(kg)
VAL06940	BE33752		B 35100	2 13/16	7.14	0.32	0.14
VAL00080	A 15506	A 15506	B 35102	5	12.7	1.49	0.68
VAL06994	AJ15504	A 15504	B 35099	4 3/16	10.64	0.84	0.38

## System Protection Devices by Mueller

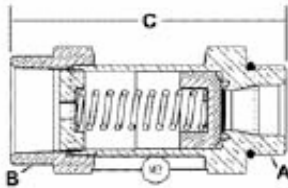
### Pressure Relief Valves

Straight Thru - NPTFE Inlet to NPTFI Outlet



SERVICEFIRST ITEM NO	VENDOR ITEM NO	ASME Valve	CE Valve	C		Wt Ea	
				(in)	(cm)	(lb)	(kg)
VAL08110	BQ35118	A 17834	B 35118	5	12.7	1 1/4	0.91
VAL01487	A 17840		B 35117	4 9/16	11.59	1.95	0.88

Straight Thru-Straight Thread Inlet to NPTFI Outlet



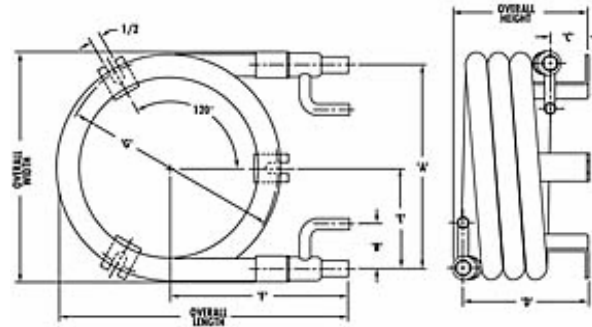
SERVICEFIRST ITEM NO	VENDOR ITEM NO	CE Valve	(in)	C		Wt Ea		Discharge Table
				(cm)	(lb)	(kg)		
VAL05956	B 34580	B 35121	5	12.70	2.00	0.91	F	

## Packless Industries

### Vibration Isolation Products

Heat Pump / Condenser Coils

*Helix with Brackets Overview*



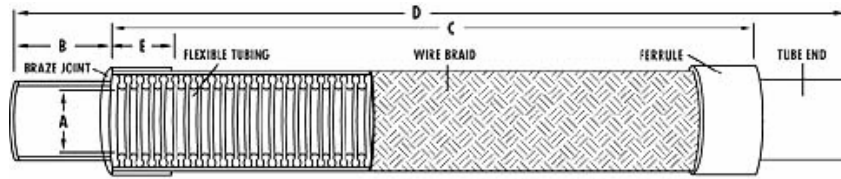
SERVICEFIRST ITEM NO	VENDOR ITEM NO	Nom Ton	Refrigerant Connection in/cut (ID)	Water Connection in/cut (ID)	Overall Dimensions		
					Length	Height	Width
COL11985	coax-2101-H	1	8-Mar	2-Jan	9/15/201 6	6/15/201 6	6/5/200 8

# Refrigeration Components

## Packless Industries

### Vibration Isolation Products

#### Vibration Absorber



- Sixteen models available to fit copper tubing from 1/4 through 4-1/8 inches O.D.
- Each unit pressure and vacuum tested, cleaned, dehydrated and sealed in plastic film
- U.L. and C.S.A. approved

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Description
TUB11316	10323	1-1/8" 15.96 Packless Industries 10323
TUB11315	10318	7/8" 17.04 Packless Industries 10318
TUB11319	18495	2-1/8" 6 Packless Industries 18495
TUB11318	10333	1-5/8" 8.04 Packless Industries 10333
TUB11312	10287	5/8" 9.96 Packless Industries 10287
TUB11311	10280	1/2" 6.96 Packless Industries 10280
TUB11310	10268	3/8" 3.96 Packless Industries 10268
TUB11317	10328	1-3/8" 11.04 Packless Industries 10328

Test Equipment

Stick Style Meters by Fieldpiece



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
TOL01911	HS33	STICK METER COMPLETE WITH CURRENT CLAMP, SILICONE LEADS, 4 POCKET CASE, THERMOCOUPLE AND SMALL ALLIGATOR CLIPS
TOL01912	HS35	STICK METER COMPLETE WITH CURRENT CLAMP, SILICONE LEADS, 4 POCKET CASE, THERMOCOUPLE AND SMALL ALLIGATOR CLIPS
KIT09516	HS36	STICK COMPLETE WITH AMP CLAMP, THERMOCOUPLE, LEADS, CASE AND MAGNETIC HANGER

DL2 Data Logger by Fieldpiece



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
TOL01765	DL2	FIELDPIECE DL2 EXANDABLE DATA LOGGER, USE WITH ANY FIELDPIECE ACCESSORY HEAD
CAB01135	RCBLDL2	REPLACEMENT PC CABLE FOR DL2 DATA LOGGER

Clamp-On Meters by Fieldpiece

Series 40 Mini Clamp-On Meters By Fieldpiece



SC44 is the basic clamp meter with NCV in a size that easily fits on a tool belt or in a tool case. SC45 adds temperature and capacitance. SC 46 adds true RMS and backligh.

Unique Features for SC44, SC45 and SC 46

- **Non-contact Voltage**  
Loud beeper and bright LED indicate the NCV tab is near AC voltages greater than 24V.
- **Temperature**  
Thermocouple plugs in directly for accurate readings, even in fast changing environments.
- **Wire Grabbing Jaw**  
Jaw shaped to make grabbing a wire easy.
- **Capacitance**  
For motor-run and motor-start capacitors.
- **And More**  
Backlight.  
True RMS.  
Auto-power off to extend battery life.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
MTR00981	SC44	MINI CLAMP-ON METER
MTR00982	SC45	MINI CLAMP-ON METER, 400 DEG F
MTR00983	SC46	MINI CLAMP-ON FAHRENHEIT, TRUE RMS, BACKLIGHT

# Tools and Test Equipment

## Test Equipment

### Clamp-On Meters by Fieldpiece

#### SC 50 Series Dual Display Clamp-On Meters By Fieldpiece

##### Dual Display Microamps



- Dual-Display: View amps through the clamp while viewing any of the dial functions.
- Non-contact Voltage
- DC Microamps for flame recitification diode test
- Wire grabbing jaw

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
TOL02950	SC52	DUAL DISPLAY MICROAMPS

##### Dual Display Measure Amps And Volts, Capacitance And Temperature



- Dual-Display: View amps through the clamp while viewing any of the dial functions.
- Non-contact Voltage
- Temperature: Thermocouple plugs in directly for accurate readings, even in fast changing environments. No adapter to lose.
- Capacitance: For motor-run and motor-start capacitors
- Wire grabbing jaw

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
TOL02951	SC53	DUAL DISPLAY MEASURE AMPS AND VOLTS, CAPACITANCE AND TEMPERATURE

#### SC 60 And 70 Series Dual Display Clamp-On Meters By Fieldpiece



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
MTR00827	SC66	CLAMP, W/NON-CONTACT VOLTAGE, TEMP. & MICRO FARADS, WITH CASE, METER, THERMOCOUPLE
MTR00830	SC67	NON CONTACT VOLTAGE CLAMP
MTR00860	SC76	EXPANDABLE CLAMP, AUTO RANGING, NCV, TEMP & MORE
MTR00989	SC77	CLAMP-ON, TRUE RMS AND BACKLIGHT

### Classic Style Meters by Fieldpiece

#### Meter



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
TOL00305	HB74	METER, LEADS(3), RUBBER HOLSTER

Test Equipment

Classic Style Meters by Fieldpiece

Pocket Digital Multimeter, Non-Contact Voltage Led And Buzzer



- Pocket sized digital multimeter with all the basic functions.
- Leads store within the meter casing. The back folds open for lead storage.
- Non-contact voltage
- Volts AC/DC.
- Ohms.
- Continuity.
- Diode test.
- HOLD function.
- Autoranging

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
MTR00948	SPDM1	POCKET DIGITAL MULTIMETER, NON-CONTACT VOLTAGE LED AND BUZZER

Basic Fieldpacks by Fieldpiece

Fieldpack With Meter, Holster,Clamp, Dix Lead Kit, Case



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
TOL00307	HB74K13	FIELDPACK WITH METER, HOLSTER,CLAMP, DIX LEAD KIT, CASE

LT16A Kit



- Includes the LT16A true-RMS meter, the ACH4 400AAC accessory clamp, leads, ASA2 alligator clips, and carrying case (ANC5).
- Has functions and ranges often needed when working with motors.
- Volts, ohms, continuity, and amps.
- Phase rotation indicator for 3-phase motor connection.
- Frequency for variable frequency drives.
- MFD for motor start/run capacitors.
- MAX/MIN to record highs and lows.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
TOL02677	LT16A	LT16A Kit True-RMS Meter For Motor Installation And Service

LT17A Digital Multimeter Kit



- Features and functions designed for HVAC/R.
- Temperature: K-type thermocouple plugs directly into meter. No adapter to lose.
  - MFD for motor start/run capacitors.
  - Microamps for flame rectifier diode tests.
  - Low ohm ranges for motor windings.
  - Medium ohm ranges for thermistors.
  - Thermocouple included.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
TOL02690	LT17A	Includes the LT17A meter, the ACH4 400AAC accessory clamp, ATB1 thermocouple, leads, and mailpouch carrying case (ANC5).

# Tools and Test Equipment

## Test Equipment

### Basic Fieldpacks by Fieldpiece

#### LT83A Digital Multimeter Kit



- Basic functions at a low price.
- Volts, ohms, amps, continuity.
- Battery checker.
- Works with all Fieldpiece accessory heads using optional ADLS2 leads or AHDL1 handle adapter.
- Microamps for flame safety diode test.
- MAX/MIN to record highs and lows.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
TOL02691	LT83A	LT83A DIGITAL MULTIMETER KIT

### Complete Fieldpacks by Fieldpiece



Easily carry what you need to the job site. No more "winging it" or long walks back to the truck. Carrying case designs make instrument access fast. If you need to measure gas, just add the "G" at the end of a Fieldpack's part number to include the manome

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
TOL02615	HS36K35G	Fully loaded Fieldpack. This one has it all, yet weighs only eight pounds. The big briefcase has plenty of room for additional paperwork and hand tools.
KIT14675	DL2K14G	Data logger and accessory heads to record most HVAC/R parameters conveniently and easily. Includes an EHD1 handle to convert any accessory head to a standalone instrument. Data logger software and cables included for downloading to PC.
TOL01921	HB74K27	FIELDPIECE HB74K27 TOOL PACK
TOL01922	HB74K27G	FIELDPIECE HB74K27G TOOL PACK
TOL01913	HS33K14	FIELDPIECE HS33K14 TOOL PACK
TOL01914	HS33K14G	FIELDPIECE HS33K14G TOOL PACK
TOL01915	HS35K19	FIELDPIECE HS35K19 TOOL PACK
TOL01916	HS35K19G	FIELDPIECE HS35K19G TOOL PACK
TOL02591	HS36K19G	FIELDPIECE HS36K19G TOOL PACK

### Accessory Heads by Fieldpiece

#### Air Velocity With Temperature Head



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
HED00696	AAV3	AIR VELOCITY WITH TEMPERATURE HEAD

Tools and Test Equipment



Test Equipment

Accessory Heads by Fieldpiece

Ac Current Clamp Head



Measures to 400AAC.  
 Current range: 1A to 400A rms.  
 Accuracy: ±1.5%rdg + 1dgt.  
 Maximum conductor size: 0.91 inches (23mm).

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
HED00810	ACH4	AC CURRENT CLAMP HEAD

Digital Sling Psychrometer Accessory



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
HED00661	ARH4	DIGITAL SLING PSYCHROMETER ACCESSORY, RH, TEMP AND DEW POINT AND WET BULB TEMPERATURE

True Rms Accessory Head



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
HED00495	ATRMS3	TRUE RMS ACCESSORY HEAD

Dual Temp Accessory



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
HED00689	ATH4	DUAL TEMP ACCESSORY

# Tools and Test Equipment

## Test Equipment

### Accessory Heads by Fieldpiece

#### Head: Fieldpiece Atir3 Infrared Temp.with Laser



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
HED00681	ATIR3	HEAD; FIELDPIECE ATIR3 INFRARED TEMP.WITH LASER

#### Digital Vacuum Gauge



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
HED00780	AVG2	DIGITAL VACUUM GAUGE

### Heating Season Products by Fieldpiece

#### Carbon Monoxide Head



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
HED00650	ACM3	CARBON MONOXIDE HEAD

#### Carbon Monoxide Head And Pump Kit

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
KIT07930	ACMK3	CARBON MONOXIDE HEAD AND PUMP KIT INCLUDES ACM3 AND ACMP3

#### Pump For ACM3 Accessory Head



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
PMP01609	ACMP3	PUMP FOR ACM3 ACCESSORY HEAD

Tools and Test Equipment

Test Equipment

Heating Season Products by Fieldpiece

Dual Port Manometer (pressure) Head



The ADMN2 is a dual port manometer accessory head that measures differential, absolute, and static pressure.

- Range from -60.0"WC to 60.0"WC.
- Accuracy of ±1.5% FS.
- Resolution down to 0.01"WC for static pressure measurements.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
HED00821	ADMN2	DUAL PORT MANOMETER (PRESSURE) HEAD

Mannometer Accessory Head



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
HED00648	AMN2	MANNOMETER ACCESSORY HEAD

Combustion Check Accessory Head



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
HED00824	AOX2	COMBUSTION CHECK ACCESSORY HEAD, CARBON DIOXIDE AND OXYGEN

Mill/Microamp Accessory



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
HED00682	AUA2	MILL/MICROAMP ACCESSORY

# Tools and Test Equipment

## Test Equipment

### Superheat and Subcooling Heads by Fieldpiece

#### Superheat Head With K-Type Thermocouple



- Measures refrigerant pressure and temperature and calculates superheat for two refrigerants in English or metric units.
- Display pressure in PSI or kPa.
- Display temperature in °F or °C.
- Display superheat in °F or °C.
- Select R22 or R410A.
- Auto-off can be disabled for data logging.
- Includes "T".
- Now accepts K-type thermocouples. ATC1 included.
- LED indicates when readings are stable.
- Thermocouple calibration pot.
- Atmosphere pressure calibration.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
HED00786	ASH3	SUPERHEAT HEAD WITH K-TYPE THERMOCOUPLE

#### Superheat And Subcooling Head For A/C, For R22 And R410A



- Measures refrigerant pressure and temperature and calculates superheat or subcooling for R22 and R410A in English or metric units.
- Display pressure in PSI or kPa.
  - Display temperature in °F or °C.
  - Display superheat in °F or °C.
  - Display subcooling in °F or °C.
  - Select R22 or R410A.
  - Auto-off can be disabled for data logging.
  - Includes "T".
  - Now accepts K-type thermocouples. ATC1 included.
  - LED indicates when readings are stable.
  - Thermocouple calibration pot.
  - Atmosphere pressure calibration.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
MTR00970	ASX14	SUPERHEAT AND SUBCOOLING HEAD FOR A/C, FOR R22 AND R410A

#### Superheat And Subcooling For Refrigeration, R134A And R404A



- Measures refrigerant pressure and temperature and calculates superheat or subcooling for R134A and R404A in English or metric units.
- Display pressure in PSI or kPa.
  - Display temperature in °F or °C.
  - Display superheat in °F or °C.
  - Display subcooling in °F or °C.
  - Select R134A or R404A..
  - Auto-off can be disabled for data logging.
  - Includes "T".
  - Now accepts K-type thermocouples. ATC1 included.
  - LED indicates when readings are stable.
  - Thermocouple calibration pot.
  - Atmosphere pressure calibration.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
MTR01016	ASX24	SUPERHEAT AND SUBCOOLING FOR REFRIGERATION, R134A AND R404A

Tools and Test Equipment

Test Equipment

Superheat and Subcooling Heads by Fieldpiece

Standalone Superheat And Subcool



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
TOL02702	SSX34	STANDALONE SUPERHEAT AND SUBCOOL

Heads for Miscellaneous Electrical Applications by Fieldpiece



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
HED00489	AMD1	MICROWAVE OVEN DIODE TESTER
HED00678	AVH1	VOLTAGE HEAD

Accessory Head Handles by Fieldpiece

Accessory Head Handles With EHDL1



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
HDL00886	EHDL1	ELECTRONIC HANDLE, CONVERTS FIELDPIECE ACCESSORY HEADS INTO STAND ALONE INSTRUMENT

Accessory Head Adapter With AHDL1 Leads



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
ADP00868	AHDL1	ACCESSORY HEAD ADAPTER WITH AHDL1 LEADS

# Tools and Test Equipment

## Test Equipment

### Standalone Instruments by Fieldpiece

#### Standalone Dual Port Manometer



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
MTR00975	SDMN5	STANDALONE DUAL PORT MANOMETER,

Tools and Test Equipment

#### Megohmmeter



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
MTR00819	SMG5	MEGOHMMETER, MEASURES INSULATION RESISTANCE UP TO 2000 MOHMS

#### Non-contact Voltage Detector



- Analog Feel
- The closer the probe is to the voltage source, the louder and brighter the indicators become.
- Detects AC voltages without contact.
- Bright red LED light.
- Buzzer.
- Range: 24VAC to 440VAC.
- Senses 24 VAC for thermostats.
- Conveniently clips to shirt pocket.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
SEN01274	SNCV1	NON-CONTACT VOLTAGE DETECTOR

#### Infrared (IR) Refrigerant Leak Detector



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
SEN01493	SRL2	INFRARED (IR) REFRIGERANT LEAK DETECTOR

**Test Equipment**

**Standalone Instruments by Fieldpiece**

**Optical Laser Tachometer**



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
MTR00894	SRPM1	OPTICAL LASER TACHOMETER, RANGE 2.5 TO 99,999 RPM

**Vacuum Gauge**



- Measures from 50 to 2000 microns.
- Rugged rubber boot.
- LED indicates stable pressure.
- Fast response and high resolution.
- Big display shows if the pressure is increasing, decreasing, or stable.
- Inline "T" included.
- Magnetic hanger.
- Easy to clean.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
GAG01061	SVG2	VACUUM GAUGE

**Thermometers by Fieldpiece**

**Folding Pocket Knife Style**



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
THR00059	SPK1	FOLDING POCKETKNIFE STYLE

**Dual Temp Thermometer**



- Read T1, T2, or T1-T2.
- Rugged rubber boot.
- Min/Max and Hold.
- LED indicates disengaged probe.
- Great temperature compensation for fast changing environments.
- Select °F or °C.
- 2 k-type thermocouples included.
- Clear front case with magnetic hanger included.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
TOL02102	ST4	DUAL TEMP THERMOMETER

# Tools and Test Equipment

## Test Equipment

### Thermometers by Fieldpiece

#### Water Resistant Pocket Thermometer With Probe



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
MTR00969	SWT2	WATER RESISTANT POCKET THERMOMETER WITH PROBE

#### Infrared Thermometers by Fieldpiece

##### Gun Style IR Thermometer With Laser, Backlit Display



- Field of view 10:1.
- Blue backlight.
- Laser guide.
- Protective lens cap.
- Faster than thermistor based thermometers.
- Range: -22°F to 1022°F.
- Auto off.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
MTR00953	SIG1	GUN STYLE IR THERMOMETER WITH LASER, BACKLIT DISPLAY

##### Pen Style Infrared Thermometer W/Led Flashlight



- Field of view 1:1.
- Protective IR lens cap.
- Small as a pen.
- Automatic data hold.
- Select °F or °C.
- Excellent accuracy: ±1.5°F.
- Resolution: 0.5°F.
- Range: -27°F to 230°F.
- Auto off.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
TOL02586	SIL2	PEN STYLE INFRARED THERMOMETER W/LED FLASHLIGHT

##### Shirt Pocket Infrared Thermometer



- Field of view 1:1.
- Extremely compact design.
- Resolution: 0.1°F.
- Faster than thermistor based thermometers.
- Range: -22°F to 1023°F.
- Auto off.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
TOL02636	SIP2	SHIRT POCKET INFRARED THERMOMETER



Test Equipment

Infrared Thermometers by Fieldpiece

Shirt Pocket Infrared Thermometer With Laser



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
THR00058	SIR2	SHIRT POCKET INFRARED THERMOMETER WITH LASER

K-Type Thermocouples by Fieldpiece

Bead Type K-Thermocouple With Alligator Clip



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
TCP00106	ATA1	BEAD TYPE K-THERMOCOUPLE WITH ALLIGATOR CLIP

Bead Type K-Thermocouple With Alligator Clip, High Temp.



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
TCP00107	ATAF1	BEAD TYPE K-THERMOCOUPLE WITH ALLIGATOR CLIP, HIGH TEMP.

K-Thermocouple, Bead Type, (400f)insulation



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
SEN00854	ATB1	K-THERMOCOUPLE, BEAD TYPE, (400F)INSULATION

# Tools and Test Equipment

## Test Equipment

### K-Type Thermocouples by Fieldpiece

#### K-Thermocouple, Pipe Clamp (up To 1-1/8 Dia)



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
SEN00856	ATC1	K-THERMOCOUPLE, PIPE CLAMP (UP TO 1-1/8 DIA)

#### K-Thermocouple, Pipe Clamp



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
SEN00950	ATC2	K-THERMOCOUPLE, PIPE CLAMP

#### Pipe Clamp Thermocouple



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
SEN01117	ATC3	PIPE CLAMP THERMOCOUPLE

#### K-Thermocouple EXT Cable--10 FT Long



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
SEN00858	ATEXT10	K-THERMOCOUPLE EXT CABLE--10 FT LONG

#### K-Thermocouple, For Fluids (1500F Tip)



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
SEN00859	ATF1	K-THERMOCOUPLE, FOR FLUIDS (1500F TIP)

Tools and Test Equipment

Test Equipment

K-Type Thermocouples by Fieldpiece

4.5" Piercing Rod With Handle, K-Type



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
TOL02731	ATR1	4.5" PIERCING ROD WITH HANDLE, K-TYPE

Disk Shaped For Grilles, Flat Surface, K-Type



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
SEN00862	ATS1	DISK SHAPED FOR GRILLES, FLAT SURFACE, K-TYPE

Wet Bulb Thermocouple With Alligator Clip, K-Type



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
TCP00108	ATWB1	WET BULB THERMOCOUPLE WITH ALLIGATOR CLIP, K-TYPE

Test Leads and Alligator Clips by Fieldpiece

Shorting Cables(Pair): Alligator Clips On A 3 Foot Wire



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
KIT06114	ADA2	SHORTING CABLES(PAIR):ALLIGATOR CLIPS ON A 3 FOOT WIRE

Deluxe Test Leads,Short & Long Probe Tips, Alligator Clip



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
KIT06115	ADK7	DELUXE TEST LEADS,SHORT & LONG PROBE TIPS, ALLIGATOR CLIP

Lead Set



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
WIR03694	ADLS2	LEAD SET

# Tools and Test Equipment

## Test Equipment

### Test Leads and Alligator Clips by Fieldpiece

#### Alligators, Probes, Silicone Cables



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
KIT06117	AEK11	ALLIGATORS, PROBES, SILICONE CABLES

#### Flame Diode Adaptor Kit



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
KIT08153	AQK3	FLAME DIODE ADAPTOR KIT

#### Silicone Leads For SC Series (Pair)



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
WIR03224	ASLS2	SILICONE LEADS FOR SC SERIES (PAIR)

#### Small Alligator Clips (M BAN)

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
CLP00811	ASA2	SMALL ALLIGATOR CLIPS (M BAN)

### High Current and High Voltage Accessories by Fieldpiece

#### Current Clamp 1000A AC 2.25 In Jaw Opening



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
CMP00876	ACA1000	CURRENT CLAMP 1000A AC 2.25 IN JAW OPENING

**Test Equipment**

**High Current and High Voltage Accessories by Fieldpiece**

**DC & AC Current Clamp (600A)**



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
CMP00820	ACDC6	DC & AC CURRENT CLAMP (600A)

**28kvac Probe**



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
SEN00853	AHV28	28KVAC PROBE

**Fuses and Batteries by Fieldpiece**

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
KIT06119	RF16(4)	0.1A/250V(5X20mm)-LT16 & LT17
FUS01137	RFL701(1)	20A/600V(10X38mm)-HB74
FUS01785	RFL712(1)	12A/600V (10X38MM)
KIT06120	RFL83(4)	10A/600V(6.35X25.4mm)-LT83
FUS01514	RFM66	REPLACEMENT FUSE FOR ALL FIELDPIECE SC SERIES METERS ( 1 CTN = 4 PCS)
KIT06121	RFM70(4)	2A/600V(6.35X25.4mm)-LT6,LT16
KIT06118	RFM74(4)	0.5A/500V(16.35X32mm)-HB74
KIT06122	RFS74(4)	0.5A/250V(5X20mm) FOR USE IN LT83 AND HB74
BAT00054	RLR44(2)	BATTERY FOR SPK1, 2 PACK

**Accessories by Fieldpiece**



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
TOL00320	AHK1	FIELDHOOK FOR STICK DIGITAL MULTIMETER
SRP00911	AMS1	MAGNETIC STRAP FOR LT, SC, ST AND HS METERS
CAP00991	ALP3	LONG PROBE TIPS CAP

# Tools and Test Equipment

## Test Equipment

### Extension Tools by Fieldpiece

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
TOL02235	MDSH1	MAGNETIC PARTS DISH
TOL02859	PAL1	ALLIGATOR CLIP
TOL02236	PBS1	SMALL PARTS GRABBER, 2 FT TELESCOPIC ROD, PBS1
TOL02709	PBS2	MAGNETIC CLAW, TELESCOPE TO 2 FEET WITH POCKET CLIPS
LIT00925	PLF2	POCKET FLASHLIGHT
LIT00915	PLM2	LED FLASHLIGHT WITH MIRROR ATTACHMENT, 2FT TELESCOPIC ROD, PLM2
TOL02462	PMG1	MAGNET EXTENSION POCKET TOOL, EXTENDS TO 2 FEET, PMG1
TOL02238	PMR1	ADJUSTABLE MIRROR, 2"X1", EXTENDS FROM 8" TO 21-1/2", PMR1

### Soft-Sided Cases by Fieldpiece

#### Four Pocket Cordura



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
CAS00809	ANC1	FOUR POCKET CORDURA

#### Cordura Briefcase Style



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
CAS00810	ANC3	CORDURA BRIEFCASE STYLE

#### Pouch Style Case W/Handles



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
CAS00812	ANC5	POUCH STYLE CASE W/HANDLES

#### Clamp Meter Case



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
CAS01301	ANC7	CLAMP METER CASE

**Test Equipment**

**Soft-Sided Cases by Fieldpiece**

**Meter Case, Holds 4 Heads Plus Two Meters**



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
CAS01302	ANC8	METER CASE, HOLDS 4 HEADS PLUS TWO METERS

**Rubber Holster For HB Series Meter**



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
CAS00813	ARB1HB	RUBBER HOLSTER FOR HB SERIES METER

**Rubber Holster For LT Series Meter**



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
CAS00814	ARB1LT	RUBBER HOLSTER FOR LT SERIES METER

# Tools and Test Equipment

## Meters by Fluke

### DIGITAL MULTIMETERS

#### Electrician's Combo Kit



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
KIT09382	179/1AC KIT	Combo Kit

#### 170 Series Digital Multimeters



- True RMS voltage and current measurements
- 0.09% basic accuracy (177, 179)
- 6000 count resolution
- Digital display with analog bargraph and backlight (177, 179)
- Manual and automatic ranging
- Display Hold and Auto Hold
- Frequency and capacitance measurements
- Resistance, continuity and diode measurements
- Temperature measurements (179)
- Min-max-average recording
- Smoothing mode allows filtering of rapidly changing inputs
- Easy battery exchange without opening the case
- Closed case calibration through front panel
- Ergonomic case with integrated protective holster
- EN61010-1 CAT III 1000V / CAT IV 600V
- Measures twice as fast as other multimeters

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
MTR00834	179	Digital Multimeter

#### Industrial Multimeter and Infrared Thermometer Combo Kit



Created for industrial, HVAC, and facility maintenance. Rugged true-rms multimeter with a built-in thermometer to troubleshoot electrical and electromechanical problems plus a laser guided, non-contact infrared thermometer for measuring rotating or energized equipment, packed in a durable carrying case.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
KIT13654	179/61	Combo Kit

#### Multimeter & ToolPak Combo Kit



True-rms digital multimeter designed with a built-in thermometer. Two tools in one. The new Fluke 179 has features and functions needed to troubleshoot your equipment and plant.

- True-rms ac voltage and current for accurate measurements on non linear loads
- Large digit display with analog bargraph
- Display backlight for work in dark areas
- Temperature and capacitance
- Records minimum and maximum values to aid in troubleshooting
- Free your hands with the magnetic hanger included in this combo kit
- Durability backed up with a limited lifetime warranty
- Includes thermocouple probe, integral holster and test leads

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
MTR00884	179/TPK	Combo Kit

#### Electronics Combo Kit

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
KIT08168	179/EDA	Electronics Combo Kit



Meters by Fluke

DIGITAL MULTIMETERS

Electrical Multimeter



- AutoVolt: automatic ac/dc voltage selection
- Large white LED backlight to work in poorly lit areas
- Resistance and continuity
- Min/Max/Average to record signal fluctuations
- CAT III 600 V safety rated

**Safety conformance**

All inputs are protected to CE, IEN61010-1 CAT III 600V. UL, CSA, TÜV listed and VDE.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
MTR01026	114	Electrical Multimeter

HVAC Multimeter with Temperature and Microamps



- Built-in thermometer for HVAC applications
- Microamps to test flame sensors
- Low input impedance: helps prevent false readings due to ghost voltage
- Large white LED backlight to work in poorly lit areas
- Resistance, continuity, frequency and capacitance
- Min/Max/Average with elapsed time to record signal fluctuations
- Compact ergonomic design for one-handed operation
- Compatible with optional magnetic hanger (ToolPak™)
- CAT III 600 V safety rated

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
MTR01022	116	Multimeter with temperature and microamps

HVAC Combo Kit



**This new kit is a direct replacement for the obsolete 16/322 HVAC combo kit**

For the complete solution to HVAC troubleshooting the extra value-packed HVAC Multimeter and Clamp Meter Combo Kit, provides the ability to troubleshoot and solve problems more efficiently by providing all the needed accessories an HVAC professional would need in a compact carry case.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
KIT14849	116/322	HVAC combo kit

HVAC Technicians Combo Kit

For the complete solution to HVAC troubleshooting the extra value-packed HVAC Technician's Combo Kit, provides the ability to troubleshoot and solve problems more efficiently by providing all the needed accessories an HVAC professional would need in a compact carry case. 3-year product warranty on Fluke-116 DMM, 2-year warranty on Fluke-62 IR Thermometer and 1-year warranty on accessories

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
KIT14721	116/62	HVAC technicians combo kit

Series III Digital Multimeter



- 0.3% basic accuracy
- 3200 count resolution
- Digital display with analog bargraph
- Manual and automatic ranging
- Automatic Touch Hold
- Resistance, continuity and diode measurements
- Ergonomic case with integrated protective holster (Fluke 77 III)
- "Classic" design with removable holster (Fluke 73 III)
- Sleep mode preserves battery life
- Lifetime warranty

**Safety conformance**

73-III: All inputs are protected to EN61010-1 CAT II 600V 77-III: All inputs are protected to EN61010-1 CAT III 600V / CAT II 1000V UL, CSA, TÜV listed

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
MTR00859	73-3	Digital Multimeter

# Tools and Test Equipment

## Meters by Fluke

### TRUE-RMS DIGITAL MULTIMETERS



- Large white LED backlight to work in poorly lit areas
- Resistance and continuity
- Min/Max/Average to record signal fluctuations
- CAT III 600 V safety rated

**Safety conformance**

All inputs are protected to CE, IEN61010-1 CAT III 600V. UL, CSA, TÜV listed and VDE.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
MTR01019	115	True RMS Multimeter

### Electricians Multimeter with Non-Contact voltage

- VoltAlert technology for non-contact voltage detection
- AutoVolt automatic ac/dc voltage selection
- Low input impedance: helps prevent false readings due to ghost voltage
- Large white LED backlight to work in poorly lit areas
- True-rms for accurate measurements on non-linear loads
- Measures 10 A (20 A overload for 30-seconds)
- Resistance, continuity, frequency and capacitance
- Min/Max/Average with elapsed time to record signal fluctuations
- Compact ergonomic design for one-handed operation
- Compatible with optional magnetic hanger (ToolPak) for hands free operation
- CAT III 600 V safety rated

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
MTR01020	117	Multimeter with non-contact voltage

### Electrician's Combo Kit



This combo kit pairs the new Fluke 117 DMM with a Fluke 322 clamp meter for productive and effective troubleshooting in one total solution, including the new C115 durable soft carrying case for protection and easy meter transportation. 3 years warranty on Fluke 117 DMM, 2 years warranty on Fluke 322 Clamp meter and 1 year on accessories

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
MTR01021	117/322	Multimeter and clamp meter combo kit

## ELECTRICAL TESTERS

### Thermometer, Electrical Tester and Voltage Detector Kit



This kit is designed to help electricians and HVAC technicians solve problems quicker. Test first for overheated electrical devices using an IR thermometer; then use electrical test tools to find out more about the problem.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
TOL01669	T5-600	Electrical Tester, 600 V

### Tester Kit



Voltage, continuity and current tester kit with holster

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
MTR00854	T5-1000	Electrical Tester, 1000 V

Meters by Fluke  
ELECTRICAL TESTERS

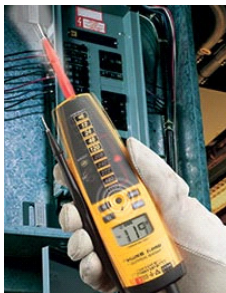
Cases and Holsters



Special value starter kit for the electrical professional who already owns a Fluke T5 Electrical Tester or is thinking of buying one. Includes sharp test probes, alligator clips for hands free connections and a soft carry case to protect your tester when not in use and store your accessories. 1000 V CAT III, 600 V CAT IV rated.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
KIT13536	T-5	Starter Kit

T+PRO ELECTRICAL TESTERS



Added functionality available only on the T+PRO:

- Backlit LCD display for easier viewing
- Display resolution of 0.1 V, ideal for troubleshooting low-voltage lighting
- Resistance (Ohms) to 9.99 kOhms
- Rotary Field Indication
- Display Hold for easier viewing in hard-to-test areas

Features and benefits of the T+PRO and T+:

- 3 forms of ac/dc voltage indication: light, sound, and vibration for added user protection and convenience
- Detect live voltage even when the batteries are dead
- Extra heavy-duty, replaceable test leads for more flexibility and durability
- CAT IV 600 V, CAT III 1000 V rated for added user protection
- Continuity beeper
- Bright LED flashlight for work in poorly lit areas
- GFCI Trip
- On/Off switchable beeper, selectable according to your environment
- Compliant with latest NFPA 70E recommendations\*
- Replaceable test probes for added flexibility and convenience
- Convenient probe storage on the back
- Probe holder for easier testing
- Hazardous voltage warning light for added user protection
- Test lead strap included for better test lead management
- AC/DC Voltage: 12 V - 600 V on LED bar, 10.2 V - 600 V on LCD (LCD on T+PRO only)
- Auto-off saves battery power
- 2-year warranty

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
MTR01041	T+Pro	ELECTRICAL TESTERS

T+BASIC ELECTRICAL TESTERS

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
MTR01042	T+BASIC	ELECTRICAL BASIC TESTER

T+PRO ELECTRICAL TESTERS

Electrical Tester and AC Voltage Detector Kit



The T+PRO-1AC Kit combines two troubleshooting tools, in one convenient combo pack. The T+PRO Electrical Tester has all of the advantages of a traditional solenoid tester, with added functionality, but none of the typical drawbacks. With voltage measurement, continuity, built-in flashlight, GFCI trip capability, and the legendary ruggedness and reliability of Fluke, the tester is an excellent choice for most residential, commercial, and industrial applications. The 1AC-II is the pocket-sized voltage detector that can quickly test for energized circuits - a "must have" for any electrician.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
MTR01043	T+PRO-1AC	Kit

# Tools and Test Equipment

## Meters by Fluke

### CLAMP METERS



These affordable instruments combine a compact package with a strong feature set:

- New smaller size fits easily into tight places
- Precise measurements with 1.8% basic accuracy
- Resolution up to 0.01A and 0.1 V
- Measures AC current to 400 A
- Measures AC volts to 600 V
- Measures DC volts to 600 V (Fluke 322 only)
- Resistance measurement to 400  $\Omega$
- Continuity for quick checking of shorts
- Automatic low battery indicator
- Display hold function
- Two year warranty

#### Safety Conformance

All inputs are protected to EN61010-1, 600 V CAT III, UL, CSA and TÜV listed.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
MTR0832	322	Clamp meter
MTR00843	337	True RMS AC/DC clamp meter

### INSULATION MULTIMETERS



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
MTR00955	1577	Insulation Multimeter
MTR00954	1587	Insulation Multimeter

### INSULATION TESTERS



- Insulation test range:
  - 1507: 0.01 M $\Omega$  to 10 G $\Omega$
  - 1503: 0.1 M $\Omega$  to 2000 M $\Omega$
- Insulation test voltages:
  - 1507: 50 V, 100 V, 250 V, 500 V, 1000 V
  - 1503: 500 V, 1000 V
- Save both time and money with Automatic calculation of Polarization Index and Dielectric Absorption Ratio (only available on the 1507)
- Make repetitive tests simple and easy with the 1507's Compare (Pass/Fail) function (only available on the 1507)
- Repetitive or hard-to-reach testing is easy with the remote test probe
- Live circuit detection prevents insulation test if voltage > 30 V is detected for added user protection
- Auto-discharge of capacitive voltage for added user protection
- AC/DC voltage: 0.1 V to 600 V
- 200 mA Continuity
- Resistance: 0.01  $\Omega$  to 20.00 k $\Omega$
- Save battery power with auto power off
- Read measurements easily with large, backlit display
- CAT IV 600 V overvoltage category rating for added user protection
- Remote probe, test leads, probes and alligator clips included with each tester
- Accepts optional Fluke TPAK magnetic hanging system to free your hands for other work
- Four AA alkaline batteries (NEDA 15 A or IEC LR6) for at least 1000 insulation tests
- One year warranty

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
MTR00977	1507	Insulation Tester
MTR00979	1503	Insulation Tester

Meters by Fluke

MULTI-FUNCTION PROCESS CALIBRATORS



The Fluke 725 Multifunction Process Calibrator is a powerful, yet easy-to-use field calibrator. Use the measure and source functions to test and calibrate almost any process parameter.

- Small, streamlined shape makes it easy to carry
- Rugged, reliable design stands up to field use
- Easy to read measure/source screen lets you view input and output simultaneously
- Measure volts, mA, RTDs, thermocouples, frequency, and ohms to test sensors and transmitters
- Source/simulate volts, mA, thermocouples, RTDs, frequency, ohms, and pressure to calibrate transmitters
- Measure/source pressure using any of 29 Fluke 700Pxx Pressure Modules
- Source mA with simultaneous pressure measurement to conduct valve and I/P tests
- Support flow meter testing with frequency and CPM functions
- Perform fast linearity tests with auto- step and auto-ramp features
- Power transmitters during test using loop supply with simultaneous mA measurement
- Handling of fast pulsed RTD transmitters and PLCs, with pulses as short as 10 ms
- Store frequently used test setups for later use
- Backlight lets you work in poor light
- Large battery capacity of four AA cells
- Battery door for easy changes

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
TOL02595	725	Multifunction Process Calibrator

LOOP CALIBRATORS



**The fast, one-handed tool for loop checks. Just click to calibrate.**

This feature-rich solution combines the best features push-button and knob-base loop calibrator and offers:

- Large display and simple, quick-click interface for easy one-handed operation.
- Simultaneous mA and % readout for quick, easy interpretation of readings.
- mA accuracy of 0.015%, superior to other loop calibrators in this price range.
- 1  $\mu$ A resolution for mA source, simulate and measure.
- Push button 25% steps for fast, easy linearity checks.
- 0-100% "span check" for fast confirmation of zero and span.
- Selectable slow ramp, fast ramp, and step ramp to provide smooth outputs for valve slewing and loop functional tests.
- 24 volt internal loop supply, so you can power and read a transmitter at the same time without carrying a DMM.
- Measures V dc to 28 V.
- Single 9V battery that is easily changed without braking calibration seal
- 0 - 20 mA or 4 - 20 mA default start up modes.
- Innovative output adjustment dial with 1  $\mu$ A and 100 resolution.
- HART™ mode connects 250  $\Omega$  resistor in series with 24 V loop for compatibility with HART communicators.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
MTR00907	707	Loop Calibrator

Volt/mA Calibrator



**Features at a Glance:**

- Measure loop current (0-20 mA, 4-20 mA) signals with very high accuracy of 0.015% and 1 mA resolution
- Measure voltage output process signals from PLCs, transmitters
- Source or simulate 24 mA loop current
- Source voltage to 100 mV or 10V
- 24V loop supply with simultaneous current measurement
- Enhanced voltage and current measure and source accuracy
- Improved battery life
- 250 ohm HART resistor with loop power
- Holster features test lead storage
- Compatible with toolpack magnetic hanging system
- Step and linear ramp output function
- Configurable zero and span settings

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
TOL01949	715	Volt/mA calibrator

# Tools and Test Equipment

## Meters by Fluke

### THERMAL IMAGERS



- Easy to use; just point, focus, and shoot
- Scans quickly and smoothly
- Displays thermal image and temperature
- Has a temperature measurement range of -10 °C to 250 °C
- Has a Laser sighting aid that can easily be turned on or off
- Includes professional analysis and reporting software - InsideIRT™
- Has industry leading battery life (> 5 hours continuous use)
- Runs off both a rechargeable battery pack and standard or rechargeable alkaline AA batteries

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
MTR00974	Ti30	Thermal Imager

### INFRARED THERMOMETERS



- Backlit display for poorly lit areas
- Last ten temperature readings displayed on bar graph for easy reference
- Enhanced optics (distance to spot ratio up to 60:1) allow measurements of smaller objects from farther away
- Coaxial three-dot laser sighting system highlights the true diameter of measurement spots at all distances (90% energy)
- Extra bright appearing 635nm laser (tested to the same safety and power standards as less bright laser sights) to clearly highlight the targeted area
- Close-focus option available for specialized applications
- MIN/MAX measurements calculations instantly computed
- Audible and visible HI temperature alarm for instant recognition
- Comfortable, overmolded pistol grip makes target sighting easy
- Adjustable emissivity setting (.01 increments) for more accurate measurement
- Durable hard plastic storage case included
- DIF/AVG measurement calculations instantly computed
- 100 temperature data logging capability for easy route review
- 30 pre-set common material emissivity values for most accurate temperature readings
- Audible and visible HI and LO temperature alarm for instant recognition
- Thermocouple K probe input for contact temperature measurements with same unit
- Customizable log names, alarms, and emissivity values for more efficient, less error-prone predictive maintenance routes
- *Unique to the 574 Model*
- Windows-based (Windows NT/ 2000/XP) software for data storage and analysis
- Software to log, graph, and analyze temperature data via RS232 connection

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
MTR00960	574	Precision Infrared Thermometer w/Logging SW
MTR00964	68	Infrared Thermometer

### FLUKE-975 AIRMETER



The Fluke 975 offers an unparalleled featureset for HVAC and facilities technicians, helping them work more quickly and accurately, with the ease of use and durability customers expect from a Fluke meter.

- Simultaneously measures, logs, and displays temperature, humidity, CO<sub>2</sub>, and CO on a bright, backlit LCD display
- One-touch air flow and velocity with available probe\*
- Wet bulb and dew point temperature
- % of outside air calculation
- CO<sub>2</sub> and CO field calibration feature
- Self-test function at startup
- Auto-backlight
- Automatically compensates for barometric pressure changes
- Min/Max/Average on all measured and calculated readings
- Multi-language user interface
- Metric or standard units
- Audible and visual threshold alarms
- Extensive discrete or continuous data logging capacity, downloadable to PC via USB interface
- Keypad lock for security
- Included FlukeView Forms® software

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
MTR01023	975	AirMeter
MTR01024	975V	AirMeter with Velocity

Meters by Fluke

True-rms HVAC Clamp Meter



Features:

- Designed for HVAC applications with capacitance, DC Current (µA), and temperature measurements
- Small body and jaws fit perfectly in your hand and into tight places
- Handy 'Display Hold' button keeps measurements on the display
- Meter controls are positioned so current measurements can be done with one hand (index finger on clamp opening lever and thumb on rotary switch)
- Large, backlit display is easy-to-see in less than ideal conditions
- Auto shut-off maximizes battery life so the meter works when you need it Three year warranty

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
CMP01107	902	HVAC Clamp meter

INDOOR AIR QUALITY TOOLS:

Temperature Humidity Meter



- Backlit dual display of humidity and temperature
- Measures dew point and wet bulb temperatures
- 99 record storage capacity
- Ergonomic design with belt clip and protective holster
- Quick-response capacitance sensor with twist-open protective cover
- Compact and lightweight (188 g/6.6 oz)
- Temperature range from -20 °C to 60 °C (-4°F to 140 °F)
- Relative humidity from 5 % to 95 %
- Min/Max/Avg Data hold
- Low battery indicator

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
MTR00976	971	Temperature Humidity Meter

The Fluke 983 Particle Counter simultaneously measures and displays six channels of particle size distribution, temperature and humidity. This compact, lightweight, self-contained tool allows for one-handed operation. The Fluke 983 maintains its accuracy when used in any position. The 8 hour rechargeable battery together with a large 5000 sample record capacity allows for uninterrupted performance during air quality surveys. The Fluke 983 is the ideal tool for determining size distribution of airborne particles or tracking down a particle source.

- Simultaneously measure and display 6 channel of particle sizes, temperature and humidity
- Measure particle size down to 0.3 µm
- Selectable sample time, count data, programmable delay
- Store 5000 records of date, time, counts, relative humidity, temperature, sample volumes, alarms and location
- Upload stored data to a PC with included software
- Compact, self-contained package allows for one-handed operation
- Intuitive, easy to use user interface
- Always ready to run, with no fluids to refill
- Backlit LCD for use in any lighting condition
- 8 hour rechargeable NiMH battery
- Protective holster

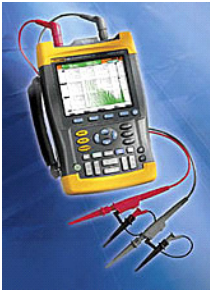
SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
MTR00973	983	Particle Counter



# Tools and Test Equipment

## Meters by Fluke

### ScopeMeter Test Tools



#### ScopeMeter 190 Series : All this power in your hand!

ScopeMeter 190C and 190B Series have specifications you typically only find on high-end bench oscilloscopes. They offer up to 200 MHz bandwidth for capturing high frequency signals, as found in today's state-of-the-art electronics, 2.5 GS/s real-time sampling and advanced memory and triggering functions. They're rugged, compact and battery powered.

- Dual-input - 200, 100 or 60 MHz bandwidth
- Up to 2.5 GS/s real-time sampling per input
- Choice between a high resolution Color display (190C Series) or Black & White display (190B Series)
- High waveform resolution of 3,000 datapoints per channel (NEW)
- Connect-and-View™ automatic triggering and a full range of manual trigger modes
- Frequency Spectrum Analysis using FFT (190C) (NEW)
- Digital Persistence for analyzing complex dynamic waveforms like on an analog scope
- Fast display update rate for seeing dynamic behavior instantaneously
- Automatic capture and replay of 100 screens
- 27,500 points per input record length using ScopeRecord™ mode
- TrendPlot™ paperless chart recorder for trend analysis up to 22 days
- Up to 1000 V independently floating isolated inputs
- Waveform reference for visual comparisons and automatic pass/fail testing of waveforms
- Vpwm function for motor drive and frequency inverter applications.
- 1000 V CAT II and 600 V CAT III safety certified
- Four hours rechargeable Ni-MH battery pack

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
MTR00922	192B/003S	ScopeMeter 60 MHz B/W with SCC Kit
MTR00923	199B/003S	ScopeMeter 200 MHz B/W with SCC Kit
MTR01002	199C/003	ScopeMeter 200 MHz color
MTR01003	199C/003S	ScopeMeter 200 MHz color with SCC Kit
KIT12257	TLK-225	SureGrip Master Accessory Set

### Fluke Accessory Sets and Kits



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
KIT09634	TLK-220	SureGrip Accessory Kit with Meter Carrying Case

### Fluke SureGrip Accessories

#### Modular test leads and test probes (used test probes with test leads)

##### Test Lead Extension Set



SureGrip accessories are designed to improve steadiness in slippery hands. Rubber overmolded surfaces and finger-hugging curves give the user a comfortable, reliable grip on the accessory so they can focus on making an accurate measurement

- One pair (red, black) of silicone insulated leads with straight connectors on both ends
- Reinforced strain relief
- Includes one pair (red, black) of female couplers
- Extends test leads by 1.5 m
- 600 V CAT IV, 1000 V CAT III, 10 A rating. UL listed
- One year warranty

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
LED00379	TL221	SureGrip Test Lead Extension Set



Meters by Fluke

Fluke SureGrip Accessories

Modular test leads and test probes (used test probes with test leads)

Silicone Insulated Test Leads

SureGrip accessories are designed to improve steadiness in slippery hands. Rubber overmolded surfaces and finger-hugging curves give the user a comfortable, reliable grip on the accessory so they can focus on making an accurate measurement.

- DMM test leads (red, black) with safety shrouded, standard diameter banana plugs
- Right angle connector on both ends
- Reinforced strain relief
- 1.5 meter silicone-insulated wire resists heat & cold
- CAT IV 600 V, CAT III 1000 V, 10 A rating. UL listed
- One year warranty

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
LED00381	TL222	SureGrip Silicone Insulated Test Leads

Insulated Test Leads

SureGrip accessories are designed to improve steadiness in slippery hands. Rubber overmolded surfaces and finger-hugging curves give the user a comfortable, reliable grip on the accessory so they can focus on making an accurate measurement.

- DMM test leads (red, black) with safety shrouded, standard diameter banana plugs
- Right angle connector on one end and straight connector on the other
- Reinforced strain relief
- 1.5 meter silicone-insulated wire resists heat & cold
- CAT IV 600 V, CAT III 1000 V, 10 A rating. UL listed
- One year warranty

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
LED00382	TL224	SureGrip Insulated Test Leads

Test lead and probe in one

Test Lead Set



- One pair (red, black) 1.5 meter long silicone test leads with right angle shrouded banana plug
- Lantern tip (removable) for use with European wall sockets (4 mm Ø )
- Lantern tip can be removed for easy access to terminal blocks (2 mm Ø)
- Removable, insulated IC caps allow probing on closely spaced leads and compliance with GS38.
- Cat IV 600 V, CAT III 1000 V, 10 A rating, UL listed
- One year warranty

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
LED00395	TL76	2mm/4mm Test Lead Set

Modular Clips

SureGrip Alligator Clips



SureGrip accessories are designed to improve steadiness in slippery hands. Rubber overmolded surfaces and finger-hugging curves give the user a comfortable, reliable grip on the accessory so they can focus on making an accurate measurement.

- One pair (red, black) of small, insulated, nickel plated jaws
- Blunt tip grabs round screw heads up to 9.5 mm
- Recommended for use with TL222 and TL224 test leads
- CAT IV 600 V, CAT III 1000 V, 10 A rating. UL listed
- One year warranty

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
CLP00979	AC220	SureGrip Alligator Clips

# Tools and Test Equipment

## Meters by Fluke

### Modular Clips

#### SureGrip Hook Clips



SureGrip accessories are designed to improve steadiness in slippery hands. Rubber overmolded surfaces and finger-hugging curves give the user a comfortable, reliable grip on the accessory so they can focus on making an accurate measurement.

- One pair (red, black) of nickel plated clips
- Profile narrows to 5.6 mm at tip, hook opening 6.4mm at front, 2 mm at base
- Recommended for use with TL222 and TL224 test leads
- CAT IV 600 V, CAT III 1000 V, 3 A rating. UL listed
- One year warranty

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
CLP00980	AC280	SureGrip Hook Clips

#### SureGrip Pincer Clips



SureGrip accessories are designed to improve steadiness in slippery hands. Rubber overmolded surfaces and finger-hugging curves give the user a comfortable, reliable grip on the accessory so they can focus on making an accurate measurement.

- One pair (red, black) of nickel plated pincers open to 5 mm
- 11.4 cm flexible insulated shaft
- Recommended for use with TL222 and TL224 test leads
- CAT IV 600 V, CAT III 1000 V, 1 A rating. UL listed
- One year warranty

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
CLP00981	AC283	SureGrip Pincer Clips



SureGrip accessories are designed to improve steadiness in slippery hands. Rubber overmolded surfaces and finger-hugging curves give the user a comfortable, reliable grip on the accessory so they can focus on making an accurate measurement.

- One pair (red, black) of large alligator clips with nickel-plated steel jaws
- Multi-purpose tooth pattern grips anything from fine gauge wire to a 20 mm bolt
- Recommended for use with TL222 and TL224 test leads
- CAT IV 600 V; CAT III 1000 V, 10 A rating.
- One year warranty

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
CLP00982	AC285	SureGrip Alligator Clips

### Fluke test leads, probes and clips

#### For electronic applications

##### Basic Electronic Test Lead Kit



- One pair (red, black) each 1 meter long silicone test lead set, alligator clip and probe tip extender.
- C75 soft carrying case
- CAT II 300 V. UL listed
- One year warranty

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
LED00388	TL80A	Basic Electronic Test Lead Kit

##### Electronic Test Probes - TL910



- Very small 1 mm tips to access hard to reach test points
- Probe tip length up to 100 mm, test lead length: 1 m
- Included : 3 sets of spring loaded gold tips and 2 sets of stainless steel tips
- CAT IV 600 V, CAT III 1000 V, 3 A rating
- One year warranty

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
KIT14881	TL910	Electronic Test Probes

Meters by Fluke

Fluke test leads, probes and clips

For electronic applications

*Deluxe Electronic Test Lead Kit*



**Features at a Glance:**

The TL81 kit consists of a quadfold nylon pouch containing two each (one black and one red) of the following items:

- One meter long test lead with a safety shrouded, right angle banana connector on one end and a stainless steel test probe on the other end, rated up to 10A. Silicone-insulated leads have superior flexibility in cold temperatures and resistance to high temperatures
- Insulated alligator clip rated up to 5A
- Insulated probe tip extender rated up to 3A
- Modular test probe with banana connector in the handle, rated up to 10A
- Modular hook-style clip test lead with banana connector, rated up to 5A
- Modular pinch-style clip test lead with banana connector, rated up to 5A
- Modular alligator clip with banana connector, rated up to 5A
- Slide-on IC probe tip adapter (rated up to 3A) and test lead couplers
- Bare spade lug with banana connector, rated up to 10A
- CAT III 300V
- Compatible with Fluke and other multimeters that accept safety shrouded, standard diameter banana connectors
- UL approved
- One year warranty

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
LED00361	TL81A	Deluxe Electronic Test Lead Kit

*Electronic Test Probes - TP80*



Recommended for use with TL222 and TL224.

- One pair (red, black)
- IC insulated cap prevents shortening of IC legs for probing high density components or boards
- CAT III 1000 V, 10 A rating. UL listed
- One year warranty

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
TOL02896	TP80	Electronic Test Probes

*Test Probe Adapter Set*



- Set of push-on adapters for TL71 and TL75 test probes
- IC test adapters, extended probe tips, medium alligator clips (max. opening 7.6 mm)
- CAT III 300 V, 3 A rating
- One year warranty

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
KIT09684	TP920	Test Probe Adapter Set

*5-Way Test Lead Set*



5 ways to connect:

1. U-shaped nose for blade-shaped terminals;
2. Notched jaw for gripping screw heads, bare wire or terminals;
3. Serrated teeth for gripping threaded or wire-wrapped terminals;
4. Cluster of sharp needles for piercing small gauge (#22-#28 AWG) wires;
5. Large piercing needle for penetrating larger gauge wires.

60" (1.5m), silicone-insulated leads, useable from -80°C to +150°C (-112°F to +302°F). Rated for 30V, 10A.

One red, one black.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
LED00391	TL26A	60 in. 5-Way Test Lead Set

# Tools and Test Equipment

## Meters by Fluke

### Fluke test leads, probes and clips

For automotive applications

#### Rigid Back Probe Pins



Better than a test probe alone - these two inch long rigid back probe pins easily pass between the weather pack seal and wire. A sharp point ensures good contact to the electrical connector, and the pin's insulation protects it from shorting to other wires.

- Slides onto test probes measuring 2 mm (0.08 inches)
- Tested to 60 V DC

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
TOL02874	TP88	Rigid Back Probe Pins

#### High Voltage Probe - 80K-6



The 80K-6 is a high voltage probe designed to extend the voltage measuring capability of an AC/DC voltmeter to 6000 volts peak AC or DC Overvoltage Category I. This means the probe can only be used to make measurements on energy limited circuits within equipment. Examples include high voltage within televisions or photo copy machines. DO NOT use this probe to measure high voltages on power distribution systems. The probe provides high accuracy when used with a voltmeter having 10 Megohm input impedance.

- A high voltage probe that allows a multimeter to measure up to 6,000V. Intended for low energy applications only
- One year warranty

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
TOL02099	80K-6	High Voltage Probe

#### High Voltage Probe - 80K-15



The 80K-15 is a high voltage probe designed to extend the voltage measuring capability of an AC/DC voltmeter to 15,000 volts peak AC or DC Overvoltage Category I. This means the probe can only be used to make measurements on energy limited circuits within equipment. Examples include high voltage within televisions or photocopy machines. DO NOT use this probe to measure high voltages on power distribution systems. The probe provides high accuracy when used with a voltmeter having 10 Megohm input impedance.

- **Voltage Range:** 0 to 15kV DC or peak AC, 10kV rms AC
- **Basic Accuracy:** DC +/- 2% 60Hz: +/- 5%
- **Division Ratio:** 1000:1
- **Safety Standards:** IEC 1010-2-031:1993, Type B, 40 kV DC or peak AC, 28kV rms AC, Overvoltage Category I (voltage derived from limited energy transformer).
- **Input Resistance:** 1000 Megohm
- **Required Meter Input Resistance:** 10 Megohm

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
Tol02239	80K-15	High Voltage Probe

#### High Voltage Probe - 80K-40



The 80K-40 is a high voltage probe designed to extend the voltage measuring capability of an AC/DC voltmeter to 40,000 volts peak AC or DC Overvoltage Category I. This means the probe can only be used to make measurements on energy limited circuits within equipment. Examples include high voltage within televisions or photo copy machines. DO NOT use this probe to measure high voltages on power distribution systems. The probe provides high accuracy when used with a voltmeter having 10 Megohm input impedance

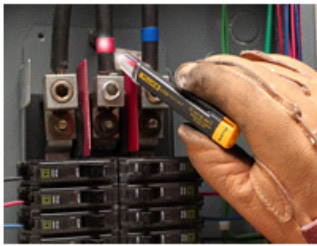
- A high voltage probe that allows a multimeter to measure up to 40,000V respectively. Intended for low energy applications only
- One year warranty

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
TOL02240	80K-40	High Voltage Probe

Meters by Fluke

Lights

Volt Light



Non-contact AC voltage detector and LED flashlight combined into one easy to use pen-style design. The LVD2 is a CAT IV 600 V rated non-contact detector that is suitable for commercial and industrial applications. The LVD2 includes dual sensitivity turning blue 1" to 5" (2.54 cm to 12.7 cm) from the source and red when at the source

- Dual Sensitivity
- LED light with 100,000 hour life
- Detects from 90 to 600 V AC
- Rated to CAT IV 600 V
- Dual Levels of Detection
- Blue indicates proximity to AC Voltage source
- Red indicates you're at the source
- Operating temperature 0 deg C to 50 deg C
- Ultra-Bright White LED
- 100,000 hr bulb
- AAA battery included

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
LIT00941	LVD2	Volt Light

Mini Hat Light



**Rugged, high intensity Xenon worklight allows you to work with both hands**

- Attaches to a baseball hat -- includes hat clip
- Electrically and thermally nonconductive
- Withstands 6' drops to concrete
- Waterproof
- Rugged ABS case won't crack or chip
- Bright xenon lamp in a prefocused optical quality reflector

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
LIT00923	L205	Mini Hat Light

Probe Light

- Small, rugged light easily attaches to any Fluke test probe
- Bright white LED illuminates contact area
- Frees both hands for work
- 120 hours of battery life
- Uses 2 3-volt watch batteries

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
LIT00907	L200	Probe Light

Deluxe LED Hat Light



**Attach it to a hard hat, a baseball hat, or even a panel door for all the light you need**

- 3 super bright white LEDs
- 360° Rotating clip
- Special hard-hat attachment included!
- 40-hour battery life
- Water resistant
- Durable polymer construction
- Rubber shielded Bezel
- Also includes a neck lanyard

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
LIT00916	L206	Deluxe LED Hat Light

# Tools and Test Equipment

## Meters by Fluke

### Lights

#### SureGrip Kit with Probe Light and Probe Extender



- L200 Probe Light
- TP280 20 cm Test Probe Extenders
- TP220 SureGrip Test Probes
- TL224 SureGrip Silicon Test Lead Set
- Foldable soft pouch with six pockets and hook-and-loop

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
KIT12235	L215	SureGrip Kit with Probe Light and Probe Extender

#### Probe Light Kit

Includes L200 Probe Light and TP280 Test Probe Extenders

- Bright white LED illuminates contact area
- 8" probe extenders keep hands away from live circuits
- Extender fits between modular test probe and test lead
- Small, rugged light frees both hands for work
- 120 hours of battery life
- Uses 2 3-volt watch batteries

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
TOL02797	L210	Probe Light Kit

**HVAC and R Tools and Instruments by Bacharach**

**ECA 450 Combustion Analyzer**

**Combustion Efficiency & Environmental Analyzer**



The ECA 450 from Bacharach conducts accurate combustion and emissions tests that will help you meet environmental regulations and ensure your equipment is burning efficiently. The ECA 450 measures oxygen, carbon monoxide (low range or high range), nitric oxide, nitrogen dioxide and sulfur dioxide, as well as combustibles, temperature and draft. It also calculates combustion efficiency, excess air, carbon dioxide, NOX (Nitrogen Oxides) and pollution units.

The ECA 450 takes continuous samplings of furnaces, boilers and other industrial combustion equipment for up to eight hours and generates precise, reliable combustion and environmental measurements and calculations. And it generates this complex data easily - even at selected intervals - enabling plants to make more accurate equipment adjustments and better assess pollution levels. The ECA 450 helps improve overall combustion efficiency, reduce fuel costs and determine emissions compliance.

**Applications:**

The ECA 450 is ideal for professionals concerned about combustion efficiency, environmental compliance or both. It enables plant maintenance engineers and managers, industrial boiler/furnace service technicians, energy coordinators, compliance officers, environmental auditors and safety managers to ensure that industrial equipment is burning efficiently while environmental regulations are being met.

**Ordering Information**

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
KIT13683	24-7289	ECA 450 NOx and SOx Kit with ECA 450 NOx and SOx Kit with Conditioner

# Tools and Test Equipment

## HVAC and R Tools and Instruments by Bacharach

### ECA 450 Combustion Analyzer

#### Combustion Efficiency & Environmental Analyzer

##### Technical Data

##### Measurements & Ranges

Oxygen	0.1 to 20.9%
Carbon Monoxide	0 to 4000 ppm (hydrogen compensated)
Carbon Monoxide (high)*	4001 to 80000 ppm
Nitric Oxide*	0 to 3500 ppm
Nitrogen Dioxide*	0 to 500 ppm
Sulfur Dioxide*	0 to 4000 ppm
Combustibles*	0 to 5.00% (application dependent)
Stack Temperature	-4 to 2400 degrees F (-20 to 1315° C)
Primary/Ambient Temperature	-4 to 999 degrees F (-20 to 999° C)
Pressure/Draft	-27.7 to 27.7 inches of H2O

##### Calculations & Ranges

Combustion Efficiency	0.1 to 100.0%
Excess Air	1.0 to 250%
Carbon Dioxide (dry basis)	0 to fuel dependent maximum
NOX (NOX=NO+NO2)	0 to 4000 ppm
NOX referenced to % O2	0 to 17000 ppm
CO referenced to % O2	0 to 99999 ppm
NO referenced to % O2	0 to 14900 ppm
NO2 referenced to % O2	0 to 2100 ppm
SOX referenced to % O2	0 to 17000 ppm

##### Accuracy

Oxygen	±0.3% O2 on practical concentration of flue gas
Stack or Flue Gas Temp.	±4°F between 32 and 255°F (±2°C between 0 and 124°C) ± 6°F between 256 and 480°F (±3°C between 125 and 249°C) ± 8°F between 481 and 752°F (±4°C between 250 and 400°C)
Primary-air/ambient Temp.	± 2°F between 32 and 212°F (±1°C between 0 and 100°C)

Pressure/Draft	±2% of reading or ± .02 in wc whichever is greater
CO	±5% of reading or ± 10 ppm, whichever is greater between 0-200 ±10% of reading between 2001 to 40000 ppm CO
NO	±5% of reading or ± 5 ppm, whichever is greater between 0-2000
NO2	±5% of reading or ± 5 ppm, whichever is greater between 0-500
SO2	±5% of reading or ± 10 ppm, whichever is greater between 0-200
HC	±5% of full scale
Selectable Fuels	Natural Gas, Oil #2, Oil #4, Oil #5, Oil #6, Propane, Coal, Wood, Kerosene, Bagasse
Power	Universal AC adapter and an internal battery pack. Adapter will accept input voltages from 100 to 240V. Fully charged battery pack provides a minimum of 8 hrs of operation
Pumps & Probe	Two pumps are included. The first pump supplies gas sample to the sensors. The second pump supplies fresh air to purge the low range CO sensor when CO levels exceed 4000 ppm. Probe includes a standard probe and hose assembly equipped with a water trap, particulate filter, probe stop, 15 feet of hose, and 12-inch probe tube.
Size	13.5" H x 18.5" W x 9" D (34.3cm x 47.8cm x 22.9cm)
Weight	25 lbs. (11.34 kg)
Warranty	1 year, extended warranty available
* <i>Optional</i>	



HVAC and R Tools and Instruments by Bacharach

PCA® Portable Combustion Analyzer



The PCA is the perfect tool for service technicians and boiler contractors who need to determine carbon monoxide (CO) safety, combustion efficiency and emission testing in combustion applications. The PCA directly measures and displays flue gas O<sub>2</sub>, temperatures, draft, differential pressure, NO(X) and CO. Simultaneously, the instrument calculates and displays combustion efficiency, excess air, CO<sub>2</sub>, NO(X)-Ref. O<sub>2</sub> and CO air free. The large display shows eight different values simultaneously with backlight. The PCA provides seven (7) fuels: natural gas, oil 2, oil 4, oil 6, kerosene, liquid propane and coal, for calculating combustion values.

The PCA offers communication features to track and analyze combustion safety tests, efficiency calculations and environmental analysis for residential and commercial applications.

The advanced communication features of the PCA 65 allow the user to store up to 100 tests, customize each combustion test with customer information, generate a personalized printout, and download all of this information to a personal computer for record keeping and trend analysis.

Instrument comes complete with:

Carrying case, probe and hose assembly, factory calibrated and installed sensor(s), instruction manual, user guide, batteries (packaged separately) and a two-year warranty. All instruments can be upgraded to include CO, Draft, NO(X) and other option combinations are available on request.

Each PCA that is equipped with Draft / Differential Pressure includes gas pressure test tubing with fittings for ease of appliance line and manifold gas pressure measurement.

**Ordering Information**

SERVICEFIRST ITEM NO	VENDOR ITEM NO	MEASUREMENTS	CALCULATIONS	FEATURES
KIT12368	Model PCA 25 w/printer P/N 24-8243	Oxygen, Air Temp., Stack Temp., Carbon Monoxide, Draft/Differential Pressure	Combustion Eff., Excess Air, Carbon Dioxide, CO (air free)	Printer Interface, Memory Storage-10
KIT12609	PCA55A* P/N 24-8143	Oxygen, Air Temp., Stack Temp., Carbon Monoxide, Draft/Differential Pressure	Combustion Eff., Excess Air, Carbon Dioxide, CO (air free)	Printer Interface, Memory Storage-100, stomized Printout, Customer ID, Computer Interface
KIT13620	Model PCA* 55 w/printer P/N 24-8249	Oxygen, Air Temp., Stack Temp., Carbon Monoxide, Draft/Differential Pressure	Combustion Eff., Excess Air, Carbon Dioxide, CO (air free)	Printer Interface, Memory Storage-100, stomized Printout, Customer ID, Computer Interface
KIT12369	Model PCA 65 w/printer P/N 24-8245	Oxygen, Air Temp., Stack Temp., Carbon Monoxide, Draft/Differential Pressure NO(X)	Combustion Eff., Excess Air, Carbon Dioxide, CO (air free) NO(X) Ref O <sub>2</sub>	Printer Interface, Memory Storage-100, stomized Printout, Customer ID, Computer Interface

**Specifications**

**Measurement Ranges**

Oxygen	0.1 to 20.9%
Primary/Ambient Air Temperature	0°F to 999°F (-18°C to 999°C)
Stack Temperature	0°F to 2,192°F (-18°C to 1,200°C)
Carbon Monoxide (optional)	0 to 4,000 ppm (hydrogen compensated)
Draft (optional)	-28.0 to + 28.0 in. WC (or user selectable in Pascal or Milibar)

NO<sub>(x)</sub> (optional) 0 to 1,000 ppm

**Calculated Ranges**

Combustion Efficiency	0.1 to 99.9% (0.1% resolution)
Excess Air	1 to 250%
Carbon Dioxide	0.1 to a fuel dependent max. value in percent
Carbon Monoxide (air free)	0 to 9,999 ppm (on analyzers equipped with CO sensors)
NO <sub>(x)</sub> (Ref. 0 to 15% O <sub>2</sub> )	0 to 9,999 ppm (on analyzers equipped with NO sensors)

**Accuracy**

Oxygen	±0.3% Oxygen (on flue gas)
Carbon Monoxide	±5% of reading or ±10 ppm, whichever is greater between 0 to 2,000 ppm; and ±10% of reading between 2001-4000 ppm
NO <sub>(x)</sub>	±5% of reading or ±5 ppm, whichever is greater
Draft/Differential Pressure	±2% of reading or ±0.02 inches of H <sub>2</sub> O, whichever is greater
Stack Temperature	±4°F between 32 to 255°F (±2°F between 0 to 124°C) ±6°F between 256 to 480°F (±3°C between 125 to 249°C) ±8°F between 481° to 752°F (±4°C between 250 to 400°C)
Primary/Ambient Temperature	±2°F between 32 to 212° (±1°C between 0 to 100°C)
Size	8.5”H x 3.8”W (at display) x 2”D (21.5 cm x 9.7 cm x 5.1 cm)
Weight	Approximately 1.5 lbs. (0.68Kg) with batteries

**Power Source**

Four disposable AA size alkaline batteries; minimum of 8 hours of continuous operation. Optional 120VAC or 240VAC power supply is available for line operation

**Display**

A 20 character by 4 line alpha numeric display with backlight

**Warm Up Time**

A 60 second total warm up time (Sensors are checked and autozeroed during warm up)

## Tools and Test Equipment

### HVAC and R Tools and Instruments by Bacharach

#### PCA® Portable Combustion Analyzer

##### Spare Parts and Accessories

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
SEN01325	24-0788	Replacement Oxygen sensor
SEN01326	24-0789	Replacement CO sensor
SEN01327	24-0881	Replacement NO(X) sensor
PWR00129	24-0885	External power supply 120V
KIT12608	24-1107	
FLR06617	07-1598	Replacement filter, white, 3 per package
CAS07195	24-1168	Protective rubber boot
CAS01797	24-0865	PCA carrying case
FLR06385	07-1644	Filters for water trap/filter assembly (3
PAP00004	06-8733	Printer Paper (one roll per package)
PAP00005	24-1310	Printer Paper (5 rolls per package)

HVAC and R Tools and Instruments by Bacharach

Fyrite® Pro Residential Combustion Analyzers



**Ordering Information**

Our popular Fyrite® Pro Residential Combustion Analyzer just got better. Service technicians have always been able to rely on the Fyrite® Pro to verify the performance and adjust residential furnaces and appliances quickly and easily. Now packed with new features such as memory and sensor strength, the Fyrite Pro offers technicians the best features in measurement precision at an affordable price.

**Low Maintenance Operation**

Stronger pump and improved water trap design allows for easy particle filter replacement.

**New Accessories**

A new AC adapter (P/N 24-1254) provides you with an alternative power source and an easy way to economize on battery replacement.

All combustion models are now supplied with a protective rubber boot with magnet. The Fyrite Pro Model 25 is now supplied with a probe stop.

**New Sensor Features:**

Displays O<sub>2</sub> sensor strength to indicate when the sensor needs to be replaced. Automatic purge cycle will protect your CO sensor in the event of high CO readings during shut-off.

**Memory Capability**

Store up to 10 complete test records that can be recalled to the display and printed.

**Low Maintenance Operation**

Stronger pump and improved water trap design allows for easy particle filter replacement.

**Ordering Information**

SERVICEFIRST ITEM NO	VENDOR ITEM NO	MEASUREMENTS	CALCULATIONS	FEATURES
KIT12616	Model 120 P/N 24-8104	Oxygen, Flue Gas Temperature, Carbon Monoxide	Combustion Efficiency, Excess Air, Carbon Dioxide	Probe/Hose Assembly, Hard Carrying Case, Protective Rubber Boot, CO (air free)
KIT12370	Model 125 Kit P/N 24-8205	Oxygen, Flue Gas Temperature, Carbon Monoxide, **Draft, **Differential Pressure, Combustion Air/Ambient Temp.	Combustion Efficiency, Excess Air, Carbon Dioxide, CO (air free), * Delta Temperature	Probe/Hose Assembly, Hard Carrying Case, Protective Rubber Boot, IrDA Printer, Probe Stop

**Spare Parts and Accessories**

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
SEN01324	24-7265	Replacement CO sensor
SEN01323	24-8106	Replacement O <sub>2</sub> sensor
FLR06385	07-1644	Filters for water trap / filter assembly (3 per package)
ADP01128	24-1254	Battery Eliminator
PAP00004	06-8733	Printer Paper (one roll per package)
PAP00005	24-1310	Printer Paper for IrDA printer (5 rolls per package)
FLR06499	19-3265	Water trap/filter assy (for 19-7110 & 19-7111 probe assembly)
CAS01798	24-1127	Protective boot w/magnets

\*\* Each Fyrite Pro that is equipped with Draft / Differential Pressure includes gas pressure test tubing with barbed fitting for ease of appliance line and manifold gas pressure measurement.

\* Requires optional thermocouple P/N 104-1798 or 104-1797

**Specifications**

**Measurement Ranges**

Combustion Air/ Ambient Air Temperature	32 - 213°F (0-100°C)
Flue Gas Temperature	0 - 999°F (-18 to 537°C)
Oxygen	0.0 to 20.9% O <sub>2</sub>
Carbon Monoxide	0 to 2,000 ppm CO
Draft/Differential Pressure	-10.0 to + 27.0 in. WC

**Calculated Ranges**

Combustion Efficiency	0.1 to 99.9%
Carbon Dioxide	0.1 to a fuel dependent max. value in percent
Carbon Monoxide (air free)	0 to 9,999 ppm
Excess Air	0 to 400%

**Selectable Fuels**

- Natural Gas (F1)
- Oil #2 (F2)
- Propane (F3)
- Kerosene (F4)

**Power**

Four disposable AA alkaline batteries (included)

**Battery Life**

Up to 18 hours of continuous operation

**Size**

7.5"H x 4.1"W x 2.1"D  
(19.0 cm x 7.9 cm x 5.3 cm)

**Weight**

16 oz. with batteries

**Warranty**

2 years, including sensors

# Tools and Test Equipment

## HVAC and R Tools and Instruments by Bacharach

### Fyrite® Tech Combustion Analyzers



The Fyrite® Tech combustion analyzers by Bacharach offer service technicians the easiest and most affordable way to venture into electronic-combustion testing.

**Affordable**

Some service technicians may shy away from electronic combustion analyzers due to cost. The Fyrite Tech was not only designed to provide "The Measurable Difference," it was priced to be the most affordable electronic analyzer currently on the market.

**Built to Last**

Based on the winning technology of the Fyrite Pro, the Fyrite® Tech analyzers are built to handle natural gas, oil,

propane and kerosene. Four alkaline batteries typically offer up to 18 hours of continuous operation with an automatic "power off" feature that saves energy. User-friendly filter replacements also make maintenance a breeze.

**Easy to Use**

With the Fyrite® Tech you are up and ready to test in 3 easy steps:

1. Turn the unit on
2. Select the fuel
3. Insert the probe

**Features & Benefits:**

- Affordable - The most affordable combustion analyzer currently on the market.
- Simple to use - Turn the unit on, select the fuel, and insert the probe. It's that easy.
- Quick payback - The Fyrite Tech reduces service call time by providing accurate, electronic test results instantly.
- Accurate operation - Tactile feedback from the instrument's keypad assures that the appropriate key has been pressed.
- Purchase protection - Our two-year warranty on each analyzer and its sensors ensures worryfree operation.
- Ergonomically designed - The instrument is lightweight and fits in the palm of your hand, making it easy to handle. Comes with soft carrying pouch for ease of transport instrument protection.
- Long battery life - Four alkaline batteries typically offer up to 18 hours of continuous operation with an automatic "power off" feature that saves energy.
- High quality - Based on the same technology as the Fyrite Pro Combustion Analyzers.

**Ordering Information**

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
KIT12371	24-8217	Fyrite Tech 60, Soft Pouch, Probe and 4 AA Batteries
KIT13727	24-8326	Fyrite Tech 60 with printer, magnetic boot, I.R. printer and hard case

**Spare Parts and Accessories**

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
SEN01323	24-8106	Oxygen Sensor, O2
SEN01324	24-7265	Carbon Monoxide Sensor, CO
FLR06385	07-1644	Replacement filter for water trap
FLR06499	19-3265	Water trap/filter assembly (for 19-7110 & 19-7111 probe hose assembly)

**Specifications**

**Measurement Ranges**

Flue Gas Temperature	0 to 999°F (-18 to 537°C)
Ambient Temperature	32 to 212°F (0 to 100°C)
Oxygen	0.0 to 20.9% O <sub>2</sub>
Carbon Monoxide	0 to 2,000 ppm CO

**Calculated Ranges**

Combustion Efficiency	0.1 to 99.9%
Carbon Dioxide	0.0 to a fuel dependent maximum (in %)
CO Air Free	0 to 9,999 ppm
Excess Air	0 to 400%

**Selectable Fuels**

- Natural Gas (F1)
- Oil #2 (F2)
- Propane (F3)
- Kerosene (F4)

**Power**

Four disposable AA alkaline

**Battery Life**

Up to 18 hours of continuous operation

**Size**

7.5"H x 3.1"W x 2.1"D

**Weight**

16 oz. with batteries

**Warranty**

2 years, including sensors

Tools and Test Equipment

HVAC and R Tools and Instruments by Bacharach

Oil Burner Combustion Testing Kits



Bacharach Combustion Testing Kits continue to offer you the most economical means of testing for oil burner efficiency during installation or servicing. Each kit is designed with the service technician in mind.

**Components (Standard Kit 10-5022)**

- Fyrite CO2 Indicator - The Fyrite Carbon Dioxide Indicator measures the percent CO2 in a flue gas sample.
- True Spot Smoke Tester and Oil Burner Smoke Scale - With the True Spot Smoke Tester and Smoke Scale, you can get an accurate indication of smoke content in flue gas.
- Fire Efficiency Finder/Stack Loss Slide Rule - The Fire Efficiency Slide Rule is a quick and easy way of determining combustion efficiency and stack loss from the results of the CO2 and stack temperature tests.
- Tempoint Dial Thermometer - High stack temperatures are cause for special concern and may indicate a serious condition.
- Model MZF Draft Gauge - The intensity of draft determines the rate at which combustion gases pass through the boiler or furnace. With the MZF Draft Gauge, you can determine if draft is excessive or insufficient.
- Carrying Case (large) - Instruments for Bacharach Oil Burner combustion Testing Kits come in a rugged, plastic carrying case.
- Moisture Absorb. Material
- Sampling Hose Assembly.

**Ordering Information**

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
KIT12372	10-5022	Standard Kit

Spare Parts and Accessories

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
KIT12374	10-5057	CO2 fluid (3 per package)
KIT12375	11-7052	CO2 Repair Kit
KIT12376	11-7047	CO2 Refill Kit
KIT12377	11-0121	Moisture Absorb. Material
HSE01510	11-7029	Sampling Hose Assembly

True Spot® Smoke Test Kit



The Bacharach True Spot Smoke Test Kit determines efficient combustion and is internationally recognized as the standard method for evaluating smoke density in the flue gases from distillate fuels. Too much smoke is one of the most common causes of excessive fuel usage and expensive service requirements. That is precisely why the smoke test is an indispensable part of any oil burner service job; and with the True Spot, an accurate smoke reading takes less than a minute. The True Spot smoke test method has long been recognized as the accepted standard for oil burner smoke tests. It is used by Underwriters' Laboratories in approval testing of oil burners; and it is the test method specified in the Installation Standards of the National Oil Fuel Institute by U.S. Department of Commerce, Testing materials (D2156-65), and German Standard DIN 51-402.

**Ordering Information**

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
KIT12373	21-7006	True Spot Smoke Test Kit

Spare Parts and Accessories

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
LUB00066	21-0040	Lubricant
PAP00006	21-0019	Filter Paper Sheets (40 per pack)

# Tools and Test Equipment

## HVAC and R Tools and Instruments by Bacharach

### Comfort Chek 200

#### Handheld Indoor Air Quality Analyzer



The Bacharach Comfort Chek is a versatile handheld analyzer that is ideal for verifying indoor air comfort and quality.

**Model 200** - measures CO<sub>2</sub>, barometric pressure, temperature, humidity and CO (features an internal pump for remote gas sampling) Each reading is displayed separately, but by pressing the f3 button the user can easily scroll through all the readings. Peak readings can also be displayed by pressing and holding down the f3 button. Both models feature data- logging, charge-and-run capability and a userzero function for all gases. There is enough memory to store up to 125 sets of data. Power is provided by a long-life NiMH battery, which is capable of providing up to 12 hours of continuous operation from one charge. The Comfort Chek is small enough to fit in the palm of your hand, remarkably easy to use and is ideal for trend analysis and record keeping.

**Applications**

IAQ-Indoor air quality checks, environmental health and general safety, CAP-X Controlled atmosphere monitoring, trend analysis using Data-Logging.

**Features:**

- Available in two models:
  - Model 100 measures CO<sub>2</sub>, barometric pressure, temperature and humidity.
  - Model 200 measures CO<sub>2</sub>, barometric pressure, temperature, humidity and CO (built-in pump)
- Data Logging for storing up to 125 sets of data, ideal for trend analysis
- Model 100 measures CO<sub>2</sub>, barometric pressure, temperature and humidity
- Convenient zero function for all gas sensors
- Long Life Infrared CO<sub>2</sub> sensor
- Electrochemical CO sensor
- Charge-and-Run capability for longterm monitoring
- Stored data can be easily downloaded through optional host software using an IrDA communications link
- Peak reading mode

**Ordering Information**

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
TOL02804	19-8049	Comfort Chek 200. Includes data logging and battery charger
TOL02860*	19-3254	Bach-Com Plus Host Software w/ IrDA Link

\*Must order w/Comfort Chek 200 to download data to computer.

**Specifications**

Weight	12 oz
Dimensions	5.5H x 2.5W x 1.4 D inches
Battery Supply	Supplied with 110-220 volt wall charger
Battery Life	Up to 12 hours of operation on one charge
Sensor Life	Long-life sensors (CO <sub>2</sub> - 5 years, CO – 2 years)

**Measuring Ranges**

CO <sub>2</sub>	0 to 10,000 ppm / 10 ppm Resolution
CO (Model 200)	0 to 500 ppm / 1 ppm Resolution
Barometric Pressure	21" to 36" Hg
Operating Temperature	0 to 104°F / 0.1°F Resolution
Relative Humidity	0 to 99.9% / 1% Resolution

HVAC and R Tools and Instruments by Bacharach

Indoor Air Quality

Sling Psychrometer



The uniquely compact Bacharach Sling Psychrometer accurately determines percent relative humidity without the necessity of consulting complex tables. There is no need to wet the wick each time a reading is taken; the Sling Psychrometer contains a slide rule calculator which correlates wet and dry bulb thermometer indications for direct reading of relative humidity. When not in use, the thermometer case telescopes into the handle for protection.

**Features:**

- Designed for portability (7.5" long x 1" diameter)
- Slide rule construction quickly converts temperature to relative humidity
- Built-in water reservoir holds sufficient water for several hours of testing
- Thin bulb design gives fast thermal response
- Thermometers constructed of shock resistant glass; stems have deep-etched numerals and 1° scale divisions for easy reading
- Accurate to within ±5% R.H.

Dual-Channel Digital Thermometer

Model TH3000



**Features:**

- Temperature: -50°F ~ 1999°F (-50°C ~ 1300°C)
- 2 K-Type 39" Thermocouples
- T1-T2 differential measurement
- Resolution: 1°F / 1°C
- Data-hold and max-hold functions
- Flip-up stand
- Includes protective boot and battery

# Tools and Test Equipment

## HVAC and R Tools and Instruments by Bacharach

### Indoor Air Quality

#### Humidity-Temperature Meter

Model TH1800



**Features:**

- Humidity: 10% RH ~ 95% RH
- Temperature: -4°F ~ 140°F (-20°C ~ 60°C)
- Resolution: 0.1°C / 0.1°F / 0.1%RH
- Wet bulb and dew point temp. readings
- Data-hold and relative function
- Dual LCD display with bargraph indication
- Includes soft carrying case and batteries

**Ordering Information**

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
MTR00971	12-7011	+20°F to +120°F Mercury Filled Sling Psychrometer
TOL02776	12-7012	+20°F to +120°F Red Spirit Filled Sling Psychrometer
MTR01014	0012-7013	-5 to 50C Mercury Sling Psychrometer
MTR01015	0012-7043	-5 to 50C Red Spirit Sling Psychrometer
MTR00972	12-0267	Thermometer (+25°F + 120°F Mercury Filled)
KIT12491	12-0011	Sling Psychrometer Wick Replacement Kit - contains 4 wicks
CAP01006	06-5456	Sling Psychrometer Cap
TOL02777	2030-0000	Dual-Channel Digital Thermometer
MTR00980	2002-1800	Humidity-Temperature Meter



HVAC and R Tools and Instruments by Bacharach

Analyzers & Monitors

Monoxor III Carbon Monoxide Analyzer



Bacharach's Monoxor® III offers service technicians the easiest and most affordable way to locate CO in ambient air as well as stack gases. The Monoxor® III CO Analyzer is a battery powered, hand-held instrument that can quickly and accurately measure levels of CO between 0 and 2,000 ppm. In addition to locating CO in ambient air, the Monoxor® III is supplied with a stainless steel probe and five feet of tubing to sample CO found in flue gases of residential furnaces, combustion appliances, commercial and industrial boilers. An optional wireless IrDA printer provides a permanent record of the detected CO level.

**Ordering Information**

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
TOL02693	19-8104	Monoxor III includes 4 'AA' batteries, probe & hose assembly with integral water-trap / filter, and a hard carrying case.
KIT13712	19-8015	Monoxor III kit includes, 4 'AA' batteries, probe & hose assembly with integral water-trap/filter, & a hand carrying case, plus an IrDA printer & a roll of printer paper.
TOL02794	24-1400	IrDA Printer with Disposable Batteries
PAP00004	06-8733	Printer paper, 1 roll package
PAP00005	24-1310	Printer paper, 5 roll package
SEN01324	24-7265	Replacement CO sensor
ADP01128	24-1254	Battery eliminator
FLR06385	07-1644	Filter Element for Water Trap, Package of 3

**Specifications**

Range	0-2,000 ppm
Resolution	1 ppm
Accuracy	+/- 5% of reading or 10 ppm, whichever is greater
Operating Temp.	Instrument: 32-104°F (0-40°C) Probe : 1,000OF (538°C)
Battery Life	24 hours continuous (minimum of 16 hours)
Display	Four-digit LCD display w/backlight
Power	4 'AA' Alkaline batteries
Printer Port	IrDA or HP protocol
Weight	16 oz. with batteries
Dimensions	7.5"H x 3.1"W x 2.1"D (190mm x 79mm x 53mm)
Warranty	2 years, including sensor

# Tools and Test Equipment

## HVAC and R Tools and Instruments by Bacharach

### Leak Detection

#### Leakator® Jr.



Leakator® Jr is a handheld combustible gas leak detector used to pinpoint combustible gas leaks in commercial, residential and industrial applications, including surveying gas pipelines and inspecting valves, regulators and meters on gas equipment. When combustible gases are sensed, audible and visual indication will be given. Combustible gases detected include: Acetone, Acetylene, Benzene, Butane, Ethanol, Ethylene Oxide, Gasoline, Hexane, Hydrogen, Industrial Solvents, Iso-Butane, Methane, Methanol, Paint Thinners, Propane, Natural Gas and Naptha.

**Features:**

- **Visual Indicator**  
1 LED (Variable Frequency)
- **Audible Indicator**  
Loud audible ticking rate
- **2 Sensitivity Levels**  
Aids in pinpointing leak detection
- **Operational Status LED**
- **Low Power Metal Oxide Sensor**  
Plug-in sensor
- **12 Inch Flexible Probe**
- **Tough ABS Plastic Housing**  
Durable and rugged
- **UL Classified**
- **Automatic Calibration**
- **Micro Processor Controlled Circuitry**
- **Easily Replaced AA-Batteries**  
Battery life is 14 hours
- **New Compact Design**  
Fits in the palm of hand (6"L x 2"W x 1.5"D)
- **2 Year Warranty**

**Ordering Information**

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
TOL02784	19-7075	Leakator Jr., flexible 12 inch probe for combustible gases and vapors, with instruction manual, sensor, cloth case, and batteries.
SEN01374	19-0575	Replacement sensor

**Specifications**

Housing	Molded four piece ABS plastic
Power	Four alkaline AA-batteries, included. Battery life is 14 hours
Warm-up Time	Automatic calibration, about 60 seconds to operational condition
Sensor	Low power metal oxide
Probe	Self storing 12 inch flexible probe. Accommodates integral sensor
Sensitivity (Methane Based)	20 ppm in high sensitivity mode 50 ppm in low sensitivity mode
Status Indicators	Visual : 1 ultra-bright variable frequency LED. Audible: Variable speed ticking sound. Power-On flashing green, Power-Off solid red, Ready Condition Flashing green (low frequency)
Environments	32° to 104°F (0° to 40°C) 15% to 75%, non-condensing
Dimensions / Weight	6"H x 2"W x 1.5"D (15.3 cm x 5 cm x 3.8 cm) 6 oz. (0.17Kg.)
Safety Approvals	UL 913, intrinsically safe, for use in Class I, Division I, Groups A,B,C, and D hazardous locations
Warranty	Two year full warranty on instrument

HVAC and R Tools and Instruments by Bacharach

Leak Detection

Leakator® 10



Bacharach's Leakator® 10 is a low maintenance combustible gas leak detection unit, small enough to be operated with just one hand, yet loaded with the kind of advanced features and technology professionals demand. Powered for up to 30 hours of continuous operation by alkaline C-cell batteries, Leakator® 10 comes complete with a flexible 20-inch long probe for hard-to-reach areas and a solid state sensor that will last for up to five years. Leakator® 10 allows you to pinpoint large and small leaks quickly, while checking a relatively large area in a short amount of time.

**Features and Benefits:**

- **Visual Indicator**  
10 Ultra-bright LEDs
- **Audible Indicator**  
Loud audible ticking rate
- **30 Hour Battery Life**  
Easily replaced C-cells
- **Sensitivity Thumb-Wheel**  
Aids pinpointing leak detection
- **Operational Status LEDs**  
English and international systems
- **Solid State Sensor**  
Plug-in sensor, five year typical life
- **20 Inch Flexible Probe**  
For hard to reach locations
- **Also Available for ETO**  
Part No. 19-7063
- **UL Listed**  
Intrinsically safe
- **CE Mark**  
Electronic performance standard

**Ordering Information**

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
TOL02705	19-7051	Leakator 10, in custom carrying case, flexible 20 inch probe for combustible gases and vapors, with instruction manual (batteries not included)

**Specifications**

Housing	Molded, three piece ABS plastic in bright yellow color, includes carrying strap
Power	Five alkaline C-cells, not provided 30 hours typical life for continuous operation
Warm-up Time	Automatic, self check, about ten seconds to operational condition
Sensor	Semiconductor type. Five year typical life. Plug-in replacement
Probe	Self storing 20 inch flexible probe. Accommodates integral sensor
Sensitivity	20 ppm useable sensitivity (methane)
Status Indicators	Visual: 10 ultra-bright red LED's. Audible: Variable speed ticking sound. Earphone available for use in noisy environments. Power-On ultra-bright green LED, Fail ultra-bright yellow LED. Low Battery ultra-bright yellow LED
Environments	23° to 130° F (-5°to 54°C), 10% to 90% relative humidity, non condensing
Dimensions / Weight	Leakator®: 18 oz. (0.51Kg.), 8.5" x 2.25" x 1.75" (21.6 cm x 5.7 cm x 4.4 cm) Case: Black HDPE, 17 oz. (.48Kg), 10.5" x 7" x 3" (26.7 cm x 17.8 cm x 7.6 cm)
Safety Approvals	UL listed, intrinsically safe, for use in Class I, Division 1, Groups A, B, C, and D classified areas
Warranty	One year limited warranty. See warranty card for more information

# Tools and Test Equipment

## HVAC and R Tools and Instruments by Bacharach

### Leak Detection

#### Tru Pointe® Refrigerant Leak Detector



Bacharach's newest refrigerant leak detector, the Tru Pointe®, is designed specifically for technicians looking for a premium quality leak detector at an affordable price. The Tru Pointe® is designed to be instantly responsive to all refrigerants. It is even accurate when used in environments where high levels of refrigerant vapors are present.

No manual sensitivity adjustments are necessary during the inspection process. Simply turn the unit on, and let it mark the spot!

**Features:**

- Detects all CFC, HFC, and HCFC refrigerants using patented heated diode sensor technology
- Instantaneous response time
- Innovative sensor replacement design
- Up to 20 hours continuous operation on 2 'D' alkaline batteries
- Battery-powered with low battery indication
- Long-life, DC brushless fan
- High and low-sensitivity modes
- Automatic zero and background compensation
- Audible & visual leak indication
- Easy to use, one-handed operation
- No user calibration required

**Ordering Information**

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
TOL02782	19-8106	Tru Pointe®, instruction manual, 2 'D' Batteries and hard carrying case
SEN01375	19-0559	Sensor

**Specifications**

Sensing Elements	Patented Heated Diode, Plug-in
Type:	150 Hours or 1 year of normal use
Life Expectancy:	
Refrigerants Detected	All CFC, HCFC and HFC refrigerants, including R-12, R-22, R-123, R-134a and blends R-404a, R-408A, R-409A, and R-410A (i.e. any refrigerant containing Chlorine, Fluorine or Bromine gas)
Alarm Sensitivity of R-134a (Hardest refrigeration to detect)	0.5 oz / year (14g/year) per SAE J1627 0.1 oz / year (3g/year) when probe is held over leak source for at least 5 seconds
Alarm Types	Variable-intensity audible and visual alarms
Power Source	Two 'D' Alkaline Batteries
Warm-Up Time	10 seconds
Response Time	Instantaneous
Battery Life*	15 hours minimum
Probe	14" (35.6cm) flexible
Size	2" W x 9.4" L x 2.5" H (5 cm W x 23.8 cm L x 6.3 cm H)
Weight	1.16 lb (0.53kg) w/ batteries
Agency Approvals	UL Listed in accordance with SAE J1627, CE
Warranty	One year, including sensor

\*As tested in low sensitivity mode using Duracell Ultra MX 1300 alkaline batteries.

HVAC and R Tools and Instruments by Bacharach

Leak Detection

H10PM All-In-One Refrigerant Leak Detector



**H10PM Features**

- Detects all CFC, HFC, and HCFC Refrigerants
- Manual or automatic zero balance control
- Pass/Fail Test mode
- Unique sensor calibration system
- 3 sensitivity modes
- Powered by a rechargeable battery
- Pinpoints both small and large leaks

**Ordering Information**

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
TOL02785	3015-0627	H10PM All-in-One Leak Detector

H10G Manual Balance Refrigerant Leak Detector



**H10G Features**

- Detects all CFC, HFC and HCFC Refrigerants
- Manual zero balance control
- Pinpoints both small and large leaks
- AC powered
- 3 sensitivity modes
- 25 years of proven experience

**Ordering Information**

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
TOL02793	3015-0456	H10G Standard Leak Detector *

**Specifications**

Detects:	All CFC, HFC, and HCFC Refrigerants
Sensing Element:	Positive Ion Emission Heated Diode
Sensitivity:	
R-134a	Small - 0.1 oz/year Medium - 0.5 oz/year Large - 2.0 oz/year
Warm-Up Time:	Approx. 2 minutes
Performance:	Exceeds SAE J1627
Probe Length:	4.5 feet
Dimensions / Weight:	
H10PM	5.5" x 10.5" x 8.5" / 5lbs. (14cm x 27cm x 22cm / 2.3 Kg)
H10G	2.5" x 4.5" x 8.5" / 3lbs. (6cm x 11cm x 22cm / 1.4 Kg)
Operating Temp.	Range: 32° TO 104°F (0° to 40°C)
Agency Listings:	UL File SA917, SAE J1627, CE-Mark
Power:	
H10PM	Internal, Rechargeable Battery (120VAC Charger Included) Optional: 12V Battery Clamp Leads and Cigarette Adapter Optional: 120V Charger for Charge or Run
H10G	120VAC Only
Zero Balance:	
H10PM	Manual and Auto
H10G	Manual Only
Switchable Sens. Modes:	Yes
Alarm:	Audible and Visual

# Tools and Test Equipment

## HVAC and R Tools and Instruments by Bacharach

### Leak Detection

#### H10PM Accessories and Parts

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
ADP01131	3015-0131	AC Adapter (120V AC) (will charge or run unit)
BAT00055	3015-0103	Battery for H10PM

#### H10G and H10PM Accessories and Parts

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
SEN01376	3015-0486	Replacement Sensor
KIT13653	3015-0784	Maintenance Kit
BOT00014	3015-0864	Leak Reference Bottle

\* Specify power requirements when ordering.

HVAC and R Tools and Instruments by Bacharach

Leak Detection

Informant® 2



The Informant 2 leak detector allows pinpoint detection of both refrigerant and combustible gas leaks with the same instrument. Its unique combination of state-of-the-art patented sensor technology, advanced software design and microprocessor-controlled circuitry offers you unmatched precision coupled with tremendous speed. The Informant 2 utilizes a patented semiconductor sensor technology to detect combustible gases and patented heated diode sensor technology to detect refrigerants. Swap sensor tips within seconds and never worry about adjusting sensitivity levels - it's taken care of automatically - even where high levels of background vapors or refrigerants are present. The refrigerant sensor tip is finely tapered to a 0.2" diameter - so you can get in between coils and fittings, gaining access to hard to reach areas. The Informant 2 leak detector features an audible indicator with a mute option coupled with sequential LEDs to monitor increasing concentrations of refrigerant or combustible gases. Dual bar graph displays offer visual confirmation no matter what position the instrument is in. And, a flashing light at the tip of the probe helps to visually define your sampling location.

**Features and Benefits:**

- Detects both refrigerants and combustible gases (with respective sensor installed)
- Audible indicator with mute feature
- Sensor set at the tip for pinpoint accuracy and instantaneous response time
- Sensors are interchanged quickly and easily
- Flashing probe tip, LED display
- Low battery indicator
- Optional boot and flashlight
- Lightweight and ergonomically designed
- Microprocessor controlled for accuracy and reliability
- Sensitivity is adjusted automatically
- Hydrophobic filter prevents moisture contamination
- Rugged rubber boot holds flashlight (optional)
- Flashing probe tip, dual LED displays and loud tick rate indicates relative concentration levels
- The Informant 2 leak detector is a modular system which is totally upgradable. Order the complete dual system or choose dedicated refrigerant or combustible gas units and upgrade to the dual configuration at any time in the future.
- Lifetime warranty available

**Ordering Information**

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
TOL02689	19-8038	Informant® 2 Contractor Kit. Instrument comes with refrigerant and combustible gas sensors, P32color-coded sensor tips, instruction manual, 4 AA batteries, filters and a hard carrying case.
TOL02706	19-8042	Dual Refrigerant/Combustible Informant® 2 Detector Kit. Instrument comes with refrigerant and combustible gas sensors, color-coded sensor tips, instruction manual, 4 AA batteries, 5 filters and a custom soft carrying case.
TOL02703	19-8045	Dual Deluxe Refrigerant/Combustible Informant® 2 Detector Kit. Instrument comes with refrigerant and combustible gas sensors, color-coded probe tips, protective rubber boot, flashlight, instruction manual, 6 AA batteries and 5 filters, all packaged in a hard carrying case.
SEN01377	19-0499	Replacement combustible sensor
SEN01347	19-0510	Replacement refrigerant sensor
FLR06598	19-0509	Replacement filters (5-pack)
CAS01796	19-0497	Protective Rubber Boot

# Tools and Test Equipment

## HVAC and R Tools and Instruments by Bacharach

### Leak Detection

#### Informant@ 2

#### Specifications

Sensing Elements:	Heated Diode - U.S. Patent No. 5,932,176 Patented semiconductor type. Five year typical life. Plug-in replacement
Refrigerant Combustible	
Refrigerants Detected	All CFC, HCFC and HFC refrigerants including: R-12, R-22, R-123, R-134a and blends R-404A, R-408A, R-409A and R-410A (i.e., any refrigerant containing Chlorine, Flourine or Bromine gas)
Combustible Gases Detected:	All combustible gases and vapors
Alarm Sensitivity:	
Refrigerant Combustible	Less than 0.25 oz/yr of R-134a (hardest to detect refrigerant) Minimum 50ppm (Methane)
Alarm Types:	Audible, dual visual LED's and flashing probe tip
Power Source :	Four (4) AA disposable alkaline batteries included
Warm-up Time:	10 seconds
Response Time:	
Refrigerant	Instantaneous
Combustible	Instantaneous
Battery Life:	4-5 hours, under typical intermittent operation
Probe:	20" (50.8 cm) maximum length, fully extended; 3" (7.62 cm) if wrapped around instrument. Includes LED indicator
Size:	1.75"W x 9.62"L x 2.25"H (4.45 cm x 24.43 cm x 5.72 cm)
Weight:	0.86 lbs. (0.39 kg) with batteries
Agency Approvals:	UL listed in accordance with SAE J1627 MET Lab certified to UL 913, intrinsically safe for use in
Refrigerant Combustible	Class1, Division 1, Group D hazardous areas
Warranty:	One year, including sensors



HVAC and R Tools and Instruments by Bacharach

Refrigerant Recovery Units

FM3700 Heavy Duty Commercial Recovery Unit



Features:

- 3/8" ports for faster, high-volume refrigerant recovery
- Recovers ALL commonly used refrigerants, including R-410A (Puron™)
- 450 PSI high pressure cut-off, high pressure gauges
- High performance compressor
- Rugged and reliable
- Automatic shut-off when evacuation is completed

Ordering Information

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
TOL02795	2000-3700	FM3700 Commercial Recovery Unit
TOL02747	2000-3701	FM3700 Commercial Recovery Unit with 80% shut-off

Specifications

Refrigerants	All Refrigerants except R-11, R-113 and R-123
Power Source	115 VAC 50/60 Hz, 230 VAC 50/60 Hz, 100 VAC 50/60 Hz
Compressor	1 horsepower twin piston, high performance, oil-less
Vacuum Rating	13" Hg+
High Pressure	Limit 450 PSI (31.0 bar)
Recovery Rate	.50 - 4.0 lbs./min. vapor, 8.0 lbs./min. liquid 0.23 - 1.81 Kg/min. vapor, 3.63 Kg/min. liquid
Auto 80% Tank Shut Off	Optional
Self Purging System	No hose changes
Weight	47 lbs. (21.3 Kg)
Dimensions	12" x 14.25" x 8.75" (30.5cm x 36cm x 22cm)

FM3600-410A Commercial Recovery Unit



Features:

- Recovers ALL commonly used refrigerants, including R-410A (Puron™)
- 550 PSI high pressure cut-off, high pressure gauges
- LED system status display
- Rugged and reliable
- Automatic shut-off when evacuation is completed

Ordering Information

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
TOL02796	2000-3600	FM3600-410A Commercial Recovery Unit
TOL02746	2000-3601	FM3600-410A Commercial Recovery Unit with 80% shut-off

Specifications

Refrigerants	All refrigerants except R-11, R-113 and R-123
Power Source	115 VAC 50/60 Hz, 230 VAC 50/60 Hz, 100 VAC 50/60 Hz
Compressor	0.5 HP high performance, oil less
Vacuum Rating	13" Hg+
High Pressure	Limit 550 PSI (37.9 bar)
Recovery Rate	.30 - 2.0 lbs./min. vapor, 4.0 lbs./min. liquid 0.14 - 0.91 Kg/min. vapor, 1.81 Kg/min. liquid
Auto 80% Shut-Off	Optional
Self Purging System	No hose changes
Weight	35 lbs.
Dimensions	12" x 13" x 7.5" (30.5cm x 33cm x 19cm)

# Tools and Test Equipment

## HVAC and R Tools and Instruments by Bacharach

### Refrigerant Recovery Units

#### Stinger



The improved Stinger, with its new compressor, will evacuate refrigeration systems faster than ever. The new compressor, coupled with increased condenser capacity, will speed up the recovery process, even on the hottest days. The Stinger's rugged construction will provide you with many seasons of reliable operation. The Stinger is capable of recovering all commonly used\* CFC, HFC and HCFC refrigerants, including R-410A (Puron™). The unit is easy to operate and is ideal for evacuating both residential and light commercial systems. A simple purge system prevents cross-contamination of refrigerants without changing hoses.

\*Not for use with R-11, R-113 or R-123

#### New Compressor

- Lower cost of ownership - new compressor is virtually maintenance free
- 243% larger compressor piston enables faster recovery
- Unlike competitive units, the new and improved Stinger is capable of pulling vacuum for an extended period of time without damaging the compressor
- The new compressor is capable of running continuously on air for more than 1,000 hours

#### Features:

- Lightweight and compact - weighs only 24 pounds
- New compressor provides a 20% increase in vapor recovery rate
- Recovers all commonly used CFCs, HFCs and HCFCs, including R-410A (Puron™)
- Capable of pumping virgin refrigerant without damaging the compressor
- 1 year over the counter warranty replacement

#### Ordering Information

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
TOL02745	2000-3300	Stinger 115 VAC
TOL02824	2000-3301	Stinger 200-S with 80% shutoff

Specifications	
Refrigerants	R-12, R-22, R-114, R134a, R-401A, R-401B, R-401C, R-402A, R-402B, R-404A, R-406A, R-407A, R-407B, R-407C, R-407D, R-408A, R-409A, R-410A, R-411A, R-411B, R-412A, R-500A, R-502B, R-507, R-509
Power Source Also Available	110/120 VAC, 1 Phase, 50/60 Hz, 8 Amps 220 VAC, 1 Phase, 50/60 Hz, 4 Amps
Compressor Type	0.8 HP High Performance Oil-less
Vacuum Rating	15" Hg+
High Pressure Limit	550 PSI (37.9 bar)
R-22 Recovery Rates (Cert. Per ARI 740-98)	Liquid: 3.88 lbs. / min. (1.76 kg / min.) Vapor: 0.33 lbs. / min. (0.15 kg / min.) Liquid Push / Pull: 14.00 lbs. / min. (6.35 kg / min.)
Auto 80% Tank Shut-Off	Optional
Self Purging System	No Hose Changes
Weight	24 lbs. (11 kg)
Dimensions	11"H x 17"L x 9.5"W (28 cm x 43 cm x 24 cm)
Approvals	Complies with UL 1963
Certifications	Meets EPA requirements for recovery equipment Conforms to ARI standard 740-98

HVAC and R Tools and Instruments by Bacharach

Vacuum Pump / Swaging Kit /Charging Scale

Vacuum Pump



Features:

- Two stage rotary vane pump
- 1/4" and 3/8" fl are and 1/2" ACME ntake ports
- Light, compact and well balanced
- High performance vacuum, HP and CFM ratings for all AC/R applications
- One year warranty

Ordering Information

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
PMP01742	2002-0001	QV2 Vacuum Pump
PMP01743	2002-0005	QV5 Vacuum Pump

Specifications - QV2

Voltage	110V/60Hz
Free Air	1.7 CFM
Displacement	
Ultimate	0.03 mbar
Vacuum	15 Micron
Motor	1/4 HP
Motor Speed	1720 rev/min
Oil Capacity	350 ml
Dimensions	358 x 172 x 290 (mm)
Weight	9.8 Kg (21.56 lbs)

Specifications - QV5

Voltage	110V/60Hz
Free Air	5.3 CFM
Displacement	
Ultimate	0.03 mbar
Vacuum	15 Micron
Motor	1/2 HP
Motor Speed	3450 rev/min
Oil Capacity	450 ml
Dimensions	358 x 180 x 300 (mm)
Weight	12 Kg (26.4 lbs)

Flaring, Swaging and Cutting Kit



Features:

- Most complete kit on the market
- 1/8" - 1-1/8" Tube Cutter
- Flaring tool flares 1/8" to 3/4" tubing
- AC Ratchet Wrench with 3/16", 1/4", 5/16" and 3/8" square sockets
- Five swaging heads sizes 3/16" to 3/4"
- Kit comes in a convenient plastic molded case

Ordering Information

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
TOL02773	2002-6500	Flaring, Swaging and Cutting Kit

Electronic Refrigerant Scale

Model CS100



Features:

- Auto Zero feature
- Tethered display with flip-up stand
- Adjustable leveling feet with built-in level indicator
- Handles a wide range of recovery cylinders up to 330 lbs (150 kg)
- Auto power-off feature prevents accidental battery drain

Ordering Information

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
TOL02770	2010-0000	Electronic Refrigerant Scale

Specifications

Units	Lbs. / Lbs. - Oz. / Kg
Resolution	0.05 lbs / 0.05 oz / 20 g
Accuracy	± 1% of reading
Capacity	330 lbs (150 kg)
Platform Dimensions	11"L x 11"W x 2"H (27.9cm x 27.9cm x 5.1cm)
Power Supply	9-volt battery (included)

# Tools and Test Equipment

## HVAC and R Tools and Instruments by Bacharach

### Digital Multimeter (DMM)

#### Pocket Digital Multimeter



**Features**

- 4 functions
- Compact DMM with built-in case for leads
- Auto power off
- Data-hold function
- Battery check function
- Auto-range
- Over-range and low batter indication
- Includes batteries, test leads and 1-year warranty

**Ordering Information**

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
TOL02778	2002-0900	MMP900 Pocket Digital Multimeter

**Specifications**

Functions	1. Volts 2. Amps 3. Ohms/Continuity 4. Diode Test
Display Count	4000
DC V	400mV / 300V
DC A	400mA
AC V	300V
AC A	N/A
Resistance	40M
Capacitance	N/A ?
Frequency	N/A
Temperature	N/A
CE or UL Listed	Both

HVAC and R Tools and Instruments by Bacharach

Manifolds and Hoses

Manifold Set with Sight Glass, R12/22/134a



**Model No. MS040, R-12/22/134a**

- Brass body with hook, hose holder and 2 hand wheels
- Includes 3 pieces 60" RYB hoses with 1/4" flare fittings. Hoses rated at 2500 psi.Burst / 500 psi Max W.P.
- 0-250 / 0-500 psi Gauges

**Ordering Information**

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
MFD01160	2002-4000	Manifold Set with Sightglass, R-12/22/134a, Model MS040

Manifold Set with Sight Glass, R-410A



**Model No. MS430, R-410A**

- Brass body with hook, hose holder and 2 hand wheels
- Includes 3 pieces 60" RYB hoses with 1/4" flare fittings. Hoses rated at 4000 psi Burst / 800 psi Max W.P.
- 0-500 / 0-800 psi Gauges

**Ordering Information**

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
MFD01161	2002-4300	Manifold Set with Sightglass, R-410A, Model MS430

Ball Valve Hose Set, R-12/22/134a



**Model No. BV3, R-12/22/134**

- 3 pcs 6" RYB hoses with 1/4" flare fittings
- Hoses rated at 2500 psi Burst / 500 psi Max W.P.
- Hoses compatible with Manifold Set models MS050 and MS040

**Ordering Information**

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
HSE01529	2002-0003	Ball Valve Hose Set, R-12/22/134a, Model BV3

Ball Valve Hose Set, R-410A



**Model No. HS460, R-410A**

- 3 pcs 60" RYB hoses with 1/4" flare fittings
- Hoses rated at 4000 psi Burst / 800 psi Max W.P.
- Hoses compatible with Manifold Set models MS050, MS040, MS440 and MS430

**Ordering Information**

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
HSE01527	2002-4600	Ball Valve Hose Set, R-410A, Model HS460

# Tools and Test Equipment

## HVAC and R Tools and Instruments by Bacharach

### Manifolds and Hoses

#### Ball Valve Hose Set, R-410A



**Features:**

- 3 pcs 60" RYB hoses with 1/4" flare fittings
- Hoses rated at 4000 psi Burst / 800 psi Max W.P.
- Compatible with manifold sets

**Ordering Information**

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
HSE01350	2002-4650	Multi-Refrigerant Vacuum Hose

#### Multi-Refrigerant Vacuum Hose

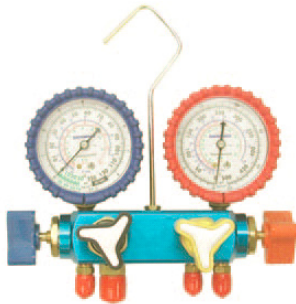
**Features:**

- All refrigerant vacuum hose
- 3/8" straight yellow
- 60" length
- For use with 4 port manifold block

**Ordering Information**

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
HSE01528	2002-4650	Multi-Refrigerant Vacuum Hose

#### 4-Port Manifold



**Features:**

- H.D. aluminum block
- 3/8" vacuum port fitting
- 1/4" flare hose fittings
- Protected gauges
- H.D. hanging hook
- Colour coded easy grip handles for positive control

**Ordering Information**

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
MFD01162	2002-4350	4-Port Manifold, R-410A
MFD01163	2002-4375	4-Port Manifold, R-22/12/134a

**HVAC and R Tools and Instruments by Bacharach**

**Gauges**

**R-12/22/134a Gauges**



**Ordering Information**

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
GAG01066	2002-0250	MSG250, R-12/22/134a
GAG01067	2002-0550	MSG550, R-12/22/134a

**Specifications**

Model	MSG250	MSG550
Dial Size	2 1/2"	2 1/2"
Connection	1/8 NPT	1/8 NPT
Scale	°F, PSI, kg/cm <sup>2</sup>	°F, PSI, kg/cm <sup>2</sup>
Pressure	250 psi	500 psi
Color	Blue	Red

**R-410A Gauges**



**Ordering Information**

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
GAG01068	2002-0410	MSG410, R-410A
GAG01069	2002-0420	MSG420, R-410A

**Specifications**

Model	MSG410	MSG420
Dial Size	2 1/2"	2 1/2"
Connection	1/8 NPT	1/8 NPT
Scale	°F, PSI, kg/cm <sup>2</sup>	°F, PSI, kg/cm <sup>2</sup>
Pressure	500 psi	800 psi
Color	Blue	Red

# Tools and Test Equipment

## HVAC and R Tools and Instruments by Bacharach

### Service Tools

#### Refrigeration Wrenches



- Model #HTRW122**
- 4 square openings
  - 3/16", 1/4", 5/16", and 3/8"
- Model #HTRW123**
- 3/16" and 1/4" square openings
  - 1/2" and 9/16" hex openings

**Ordering Information**

SERVICEFIRST ITEM NO	VENDOR ITEM NO
TOL02780	2002-0122
TOL02781	2002-0123

#### PVC Pipe Cutter



- Model #HT212**
- Up to 1 5/8" capacity

**Ordering Information**

SERVICEFIRST ITEM NO	VENDOR ITEM NO
TOL02771	2002-1434

#### Spring-Type Tubing Benders



- Model #HT1434**
- 6 per pack
  - Sizes 1/4" x 10" long;
  - 5/16" x 10"; 3/8" x 10"
  - 1/2" x 12"; 5/8" x 14";
  - 3/4" x 14"

**Ordering Information**

SERVICEFIRST ITEM NO	VENDOR ITEM NO
TOL02772	2002-1434

#### Telescopic Mirror Set



- Model #HT31M**
- Set of 4 mirrors
  - Circular lens 1 1/4" Dia., 4 3/4" to 19 1/2" extension
  - Circular lens 2" Dia., 8 1/2" to 18" extension
  - Rectangular lens 2" x 3 1/2", 8 1/2" to 19 1/4" extension
  - Oval lens 1" x 2" 4 3/4" to 20 1/4" extension

**Ordering Information**

SERVICEFIRST ITEM NO	VENDOR ITEM NO
TOL02779	2002-0300

Tools and Test Equipment



HVAC and R Tools and Instruments by Bacharach

Service Tools and Meters

Tubing Cutter, HT1818



Features:

- 1/8" to 1 1/8" O.D.
- Aluminum alloy body with chromeplated finish
- Includes 1 spare cutter wheel

Ordering Information

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
TOL02774	2002-1818	Tubing Cutter, Model No. HT1818
TOL02817	2002-0780	Tubing Cutter, Model HG780
TOL02818	2006-1858	Tubing Cutter, Model HT1858
TOL02819	2002-1871	Replacement Cutter Wheels, HTRCW1
TOL02820	2002-1873	Replacement Cutter Wheels, HTRCW3

Inner Outer Reamer



Features:

- Made of Zinc alloy with red color
- painted finish
- Reams both inside and outside edges of tubing
- 1/8" to 1 5/8" O.D.

Ordering Information

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
TOL02822	2002-7900	Inner Outer Reamer, Model HT208

3 in 1 Tubing Bender 180°



Features:

- Fixed hook
- For 1/4", 5/16" and 3/8" O.D. Tubing

Ordering Information

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
TOL02821	2002-6700	3 in 1 Tubing Bender 180°, Model HT666

Mini Clamp



Features:

- 3 functions
- includes soft carry case
- auto power off
- data hold function
- auto range
- over-range and low battery indication

Functions:

Volts, amps, ohms/continuity

Display Count:

4000 DC V400, DC A400, AC V450, AC A400

Ordering Information

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
MTR01004	2040-0000	CM4000 Mini Clamp Meter

# Tools and Test Equipment

## HVAC and R Tools and Instruments by Bacharach

### Service Tools and Meters

#### Infrared Thermometer Model TH8000



**Features:**

- Temperature: -4 to 72°F (-20 to 400°C)
- Laser Pointer
- 8:1 Distance to Spot Ratio
- Resolution: 1°F / 1°C
- Mix/Max hold function
- Backlit LCD
- Includes soft carrying case and battery

**Ordering Information**

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
MTR01005	2080-0000	Infrared Laser Thermometer, Model TH8000

#### Tamper Evident Straps



**Features:**

- Protect against contamination
- Guard against unqualified repairs
- Warranty repairs with confidence
- Individually serial numbered

**Ordering Information**

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
SRP00919	2003-0000	Tamper Evident Service Strap

#### Anemometer



**Features:**

- Ft/min: 0-8800
- Coiled Cable Vane Head
- Temperature: 32°F ~ 140°F (0°C ~ 60°C)
- Data hold and low battery indication
- Sensitive for low/high air velocity
- Also measures Km/hr, Knots, M/S
- Includes soft carrying case and battery

**Ordering Information**

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
TOL02775	2042-0000	Anemometer, Model No. TH4200

## Refrigerant Handling by Reftec

### Manifold

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
MFD00901	RM-075-6	Six 3/4" flare ports with ball valves
MFD00902	RM-050-6	Six 1/2" flare ports with ball valves

Tools and Test Equipment

Refrigerant Handling by Reftec

ASME Tanks

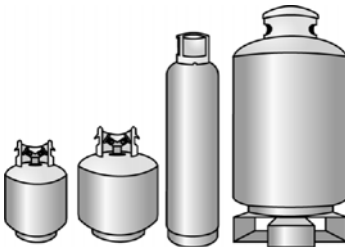


SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	FEATURES
TNK00837	ASME-250-075-HP	250 gal	3/4" flare with ball valves, high pressure
TNK00838	ASME-250-075-LP	250 gal	3/4" flare with ball valves, low pressure
TNK00839	ASME-250-075-LP-QC	250 gal	3/4" ports with quick connects, low pressure
TNK00842	ASME-500-075-HP	500 gal	3/4" flare with ball valves, high pressure
TNK00843	ASME-500-075-LP	500 gal	3/4" flare with ball valves, low pressure
TNK00844	ASME-500-075-LP-QC	500 gal	3/4" ports with quick connects, low pressure

Cable

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
CAB00880	FVC-006	6-ft float cable and 3 pin (BH) connector
CAB00881	FVC-012	12-ft float cable and 3 pin (BH) connector
CAB00882	FVC-3T4	3 pin (BH) to 4 pin (AMP) connector adapter

Cylinders



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	FEATURES
CYL00178	CYL-1000	1,000-lb capacity, 3/4" ports	3/4" flare with ball valves
CYL00179	CYL-1000-LS	1,000-lb capacity, 3/4" ports	3/4" flare with ball valves, liquid switch
CYL00180	CYL-1000-QC	1,000-lb capacity, 3/4" ports	Quick connects
CYL00181	CYL-1000-LS-QC	Quick connects, liquid switch	1,000-lb capacity, 3/4" ports
CYL00182	CYL-250	250-lb capacity, 3/4" ports	3/4" flare with ball valves
CYL00183	CYL-250-LS	250-lb capacity, 3/4" ports	3/4" flare with ball valves, liquid switch
CYL00184	CYL-250-QC	250-lb capacity, 3/4" ports	Quick connects
CYL00185	CYL-250-LS-QC	250-lb capacity, 3/4" ports	Quick connects, liquid switch
CYL00186 (1)	—	50-lb capacity, 1/4" ports	
CYL00187 (1)	—	50-lb capacity, 1/4" ports	Liquid switch
CYL00188	—	30-lb capacity, 1/4" ports	
CYL00189	—	30-lb capacity, 1/4" ports	Liquid switch

EVAC Commercial



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	FEATURES
TOL01159	CRH-A-230-3-E	230/60/3, 220/50/3, 3 HP, 15A	Electromechanical controls, 3/4" flare with ball valve, air cooled
TOL01161	CRH-A-240-1-E	230/60/1, 220/50/1, 3 HP, 20A	Electromechanical controls, 3/4" flare with ball valve, air cooled
TOL01163	CRH-A-460-3-E	460/60/3, 415/50/3, 3 HP, 15A	Electromechanical controls, 3/4" flare with ball valve, air cooled
TOL01167	CRH-A-575-3-E	575/60/3 3 HP, 10A	Electromechanical controls, 3/4" flare with ball valve, air cooled

Filters

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
DHY00816	—	3 cubic inch, 1/4" flare, in-line, fits MicroVac
FLR02742	RFD304	30 cubic inch, 1/2" flare, in-line, fits MityVac
DHY00864	—	48 cubic inch, replaceable core, fits EvacCommand and LoVac

HandiVac



No oil-less refrigerant-recovery unit transfers refrigerant as quickly as HandiVac. Its dual 0.5Hp oil-less compressors accelerate refrigerant recovery on commercial cooling systems.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	FEATURES
TOL01144	RTO-500-115-F	115/60/1, 110/50/1, (2)15A	0.5HP, Float cable connection
TOL01145	RTO-500-240-F	230/60/1, 220/50/1, (2) 0.5 HP, 10A	Float cable connection

# Tools and Test Equipment

## Refrigerant Handling by Reftec

### Hoses

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
HSE01128	025-020-HP	1/4" x 20 ft, no isolation
HSE01129	025-020-HP-FB	1/4" x 20 ft, with ball valves
HSE01131	038-010-HP-FB	3/8" x 10 ft, with ball valves
HSE01133	038-020-HP-FB	3/8" x 20 ft, with ball valves
HSE01135	050-010-HP-FB	1/2" x 10 ft, with ball valves
HSE01137	050-020-HP-FB	1/2" x 20 ft, with ball valves
HSE01139	075-010-HP-FB	3/4" x 10 ft, with ball valves
HSE01140	075-010-HP-QC	3/4" x 10 ft, quick connects
HSE01142	075-020-HP-FB	3/4" x 20 ft, with ball valves
HSE01143	075-020-HP-QC	3/4" x 20 ft, quick connects
HSE01347	025-006-B-HP-FB	1/4" x 6 ft, flare with ball valves, blue
HSE01348	025-006-R-HP-FB	1/4" x 6 ft, flare with ball valves, red
HSE01126	—	1/4" x 10 ft, no isolation
HSE01130	—	3/8" x 10 ft, no isolation
HSE01132	—	3/8" x 20 ft, no isolation
HSE01214	—	1/2" x 10 ft, no isolation
HSE01136	—	1/2" x 20 ft, no isolation
HSE01252	—	3/4" x 10 ft, no isolation
HSE01253	—	3/4" x 20 ft, no isolation

### Hyperwatt



- Cycles chiller water at up to 20 gpm through 30kW vessel.
- Microprocessor displays step-by-step operating instructions.
- When desired chiller pressure level is reached, the pump shuts down.
- Automatically re-energizes to maintain stable pressure.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	FEATURES
TOL01243	HPS-C-D24-3	230-460/60/3, 220-415/50/3, 20/40A	Service cart
TOL01245	HPS-P-D24-3	230-460/60/3, 220-415/50/3, 20/40A	Permanent mount

### LoVac



LoVac's rugged 2HP open-drive compressor and water-cooled condenser speedily transfers refrigerant in the poorest of conditions. The open-drive design offers lighter weight and stands up better to noncondensable contamination than a vacuum pump.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	FEATURES
TOL02067	CRL-115-E	115/60/1,110/50/1, 2.0 HP, 20A	Electromechanical controls, 3/4" flare with ball valve, water cooled
TOL02068	CRL-240-E	230/60/1,220/50/1, 2.0 HP, 15A	Electromechanical controls, 3/4" flare with ball valve, water cooled

### MicroVac



MicroVac combines a revolutionary oil-less compressor with greater condensing capacity to provide unmatched refrigerant-recovery performance.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	FEATURES
TOL02061	MVSII-115	115/60/1, 110/50/1, 0.75 HP, 15A	LP shut-off

**Refrigerant Handling by Reftec**

**MicroVac I & II Spare Parts**

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Item Description	Qty
KIT09209	CPK079	COMPLETE REBUILD KIT: CPK078/077/076 & RSC019	1
KIT09208	CPK078	SUCTION/DISCHARGE VALVE KIT	1
KIT09207	CPK077	COMPRESSOR PISTON ASSY	1
KIT09206	CPK076	COMPRESSOR O-RING KIT	1
SEL00854	RSC019	COMPRESSOR SHAFT SEAL	1
KIT06835	CPK002	COMPRESSOR O-RING KIT	1
KIT06834	CPK001	COMPRESSOR HEAD ASSY	1

**Minipurge**



MiniPurge portable purge unit temporarily connects to chillers and storage tanks charged with high- or low-pressure refrigerants and rapidly eliminates noncondensibles. Unit is ideal for supplementing thermal purge units during seasonal start ups on R11 or R123 chillers.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
TOL01227	MPS-115	115/60/1, 110/50/1 0.5 HP, 15A
TOL01228	MPS-240	230/60/1, 220/50/1 0.5 HP, 15A

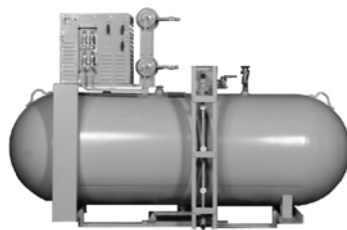
**MityVac**



MityVac offers the highest recovery capacity of any 115V unit. A 2 Hp open drive compressor and 1/2" lines provide rapid recovery on chillers, supermarket racks, and other larger-volume cooling systems.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	FEATURES
TOL01152	MRH-115-E 2.0	115/60/1, 110/50/1, 2.0 HP, 20A	Electromechanical controls
TOL01154	MRH-240-E 2.0	230/60/1, 220/50/1, 2.0 HP, 15A	Electromechanical controls

**MityVac ASME Packaged Unit**



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	FEATURES	TRANE NO
TOL01792	MRH-115-A-250	103-127V,50/60Hz, 1Ph,1.5HP,20A	250-gal/air	RRJA112A0A0
TOL01793	MRH-240-A-250	220-240V,50/60Hz, 1Ph,1.5HP,15A	250-gal/air	RRJA112B0A0
TOL01794	MRH-115-A-500	103-127V,50/60Hz, 1Ph,1.5HP,20A	500-gal/air	RRKA112A0A0
TOL01795	MRH-240-A-500	220-240V,50/60Hz, 1Ph,1.5HP,15A	500-gal/air	RRKA112B0A0

**Quick Connects**

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
CON00996	QC-075-M	3/4" male quick connect fitting
CON00997	QC-075-F	3/4" female quick connect fitting

# Tools and Test Equipment

## Refrigerant Handling by Ritchie

### HVAC & R Service Tools

#### Cylinder Adapters



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
ADP00917	19105	3/4" NPS finger tight cylinder adapter with 1/4" male flare, for 125 and 145 lb cylinders

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
ADP00918	19106	3/4" NPS Finger Tight Cylinder Dapter With 3/8" Male Flare

#### Recovery Units

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
TOL01393	94950	Recovery Unit, 1/3 HP oil-less compressor, R50 series
TOL02911	95700	RecovRX Recovery Unit
TOL02858	95760	RecovRXLT Recovery Unit
TOL01394	94960	Recovery Unit, oil-less compressor, R60 series
TOL01395	94970	Recovery Unit, 1/2 HP oil-less compressor R70 series
TOL01451	95100	Recovery Unit, Recover-X r100ap refrigerant recovery unit, 115v

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
TOL02112	94980	Universal Subcooling System, R80 series, 1/2 HP oil less, 115 V 60 Hz

#### Refrigerant Recovery Cylinders



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
CYL00192	95004	Cylinder, 30 lb refrigerant cylinder with "Y" valve
VAL07426	95006	"Y" Value for 50 lb cylinder
CYL00196	95003	Cylinder, 30 lb refrigerant cylinder with float switch
CYL00197	95005	Cylinder, 50 lb refrigerant cylinder with float switch
TNK00867	95002	Tank, 30 lb R-410a refrigerant cylinder, 400 PSI
CYL00198	95007	Cylinder, 50 lb R-410a refrigerant cylinder, 400 PSI
CYL00199	95012	Cylinder, 30 lb R-410a refrigerant cylinder with float switch, 400 PSI
CYL00200	95013	Cylinder, 50 lb R-410a refrigerant cylinder with float switch, 400 PSI



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
VAL07425	95008	"Y" Valve For 30 Lb. Cylinder
SWT02546	95009	Liquid Level Switch For 30 And 50 Lb. Worthington And Manchester Cylinders Only With 3-Pin Brad Harrison Connection

#### Sight Glass for R60a & R50a Recovery Systems



Use with YELLOW JACKET Recovery Systems R 60a and R 50a. Indicates when all liquid has been recovered so you can switch immediately to vapor cycle and speed-up the recovery process. 1/4" flare x 1/4" female flare.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
GLS00875	41125	Sight Glass With 1/4" Connections

Refrigerant Handling by Ritchie

SuperEvac Evacuation Systems I, II & III



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
TOL01491	93865	System I: 2-Valve Manifold, Two 16248 48" Vacuum Hoses. 2 Valves
TOL01906	93875	System II: all of the above plus 69075 Electronic Vacuum Gauge
KIT07883	93885	System III: all of the above plus 6 CFM SuperEvac Pump (93460)

Refrigerant Handling

YELLOW JACKET® Safety Goggles



Helps protect your eyes against metal particles, sparks, refrigerant gases, etc. when working on HVAC/R and automotive systems. Safety goggles are recommended any time you work on a system.

SERVICEFIRST ITEM NO	DESCRIPTION
GLS00850	VENTILATED SAFETY GOGGLES

YELLOW JACKET® Original 1/4" Charging Hoses



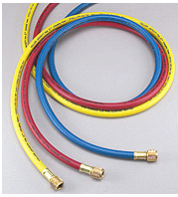
Charging Hoses - The YELLOW JACKET original charging hose has been the standard of the industry for more than 50 years. All-weather flexible; the patented Adjust-a-Valve™ Opener allows you to easily open all troublesome, out of tolerance Schrader valves; 2500 psi (172 bar) min. burst and 500 psi (34 bar) max. working pressure mean a 5-to-1 safety factor; specially formulated rubber tube resists most refrigerants and assures long work life; blow-off groove channels refrigerant out of the front of the nut to help prevent spray back; hose cover pin-pricked to resist bubbling and bursting; 6" to 100' lengths in yellow, red, blue, and white. Longer lengths are available; brass fittings; operating temperature -20° to 180°F (-28.8° to 82.2°C).

SERVICEFIRST ITEM NO	DESCRIPTION
HSE01229	HOSE; 1/4" Charging Hose, 12" Length, Yellow, HA12Y
HSE01259	HOSE; 1/4", PREMIUM CHARGING , 24", YELLOW
HSE01160	HOSE; CHARGING, 1/4 ", YELLOW, 36 ", HA36Y
HSE01262	HOSE; 25 X 48 YELLOW HA48Y, CHARGING
HSE01163	HOSE; CHARGING, 1/4 ", YELLOW, 60", HA60Y
HSE01166	HOSE; CHARGING, 1/4", YELLOW, 72", HA72Y
HSE01511	HOSE; PREMIUM 1/4" CHARGING, HA096 YELLOW, RITCHIE 11096
HSE01334	HOSE; YELLOW JACKET 1/4" PREMIUM CHARGING HOSE, 10' LONG, YELLOW
HSE01401	HOSE; YELLOW JACKET 11112 1/4" CHARGING HOSE, 12 FOOT, YELLOW
HSE01402	HOSE; YELLOW JACKET 11125 1/4" CHARGING HOSE, 25 FOOT, YELLOW
HSE01331	HOSE, 1/4" YELLOW JACKET PREMIUM CHARGING HOSE, 50', YELLOW, RITCHIE NUMBER 11150
HSE01321	HOSE, 1/4" PREMIUM CHARGING HOSE W/STANDARD FITTINGS, 100', YELLOW
HSE01257	HOSE; 1/4" PREMIUM CHARGING, 12", BLUE
HSE01260	HOSE; 1/4" PREMIUM CHARGING, 24", BLUE
HSE01161	HOSE; CHARGING, 1/4" BLUE, 36 ", HA36B
HSE01164	HOSE; CHARGING, 1/4 ", BLUE, 60 ", HA60B
HSE01167	HOSE; CHARGING, 1/4", BLUE, 72", HA72B
HSE01208	HOSE; 1/4" CHARGING, WHITE, HA60W
HSE01258	HOSE; 1/4" PREMIUM CHARGING, 12, RED
HSE01261	HOSE; 1/4" PREMIUM CHARGING, 24", RED
HSE01162	HOSE; CHARGING, 1/4 ", RED, 36", HA36R
HSE01165	HOSE; CHARGING, 1/4", RED, 60", HA60R
HSE01168	HOSE; CHARGING, 1/4", RED, 72", HA72R
HSE01209	HOSE; 1/4" CHARGING, GREEN, HA60G
HSE01230	HOSE; 1/4" Charging Hoses, 3-Pak, 48" Length, YBW
HSE01282	HOSE, 1/4" PREMIUM CHARGING HOSES, 36", RWB 3-PAK
HSE01281	HOSE, 1/4" PREMIUM CHARGING HOSES, 72", RWB 3-PAK
HSE01169	HOSE; CHARGING, 1/4", 3-PAK, 36", HA36RYB
HSE01210	HOSE; 1/4 " CHARGING, 3-PAK, 48", HA48RYB
HSE01170	HOSE; CHARGING, 1/4", 3-PAK, 60", HA60RYB
HSE01171	HOSE; CHARGING, 1/4", 3-PAK, 72", HA72RYB
HSE01427	HOSE; RITCHIE 11988 3-PAK OF RYB HOSES, 96 INCHES

# Tools and Test Equipment

## Refrigerant Handling

### YELLOW JACKET® PLUS II™ 3/8" "B" Charging Hose



Special design puts YELLOW JACKET features in a larger volume hose for fast, high vacuum or charging. Hose uses PLUS II hose technology which includes double barrier and higher working pressure. Burst pressure is 3000 psi (207 bar) min. burst with 600 psi (41 bar) max. working pressure. Operating temperature -20° to 200°F (-28.8° to 93.3°C). Larger selection of fittings to fit customer needs.

SERVICEFIRST ITEM NO	DESCRIPTION
HSE01434	HOSE; RITCHIE 14536 HOSE, 3/8 PLUS II B, YELLOW, 36 INCHES
HSE01312	HOSE; 3/8IN STANDARD 'B' CHARGING HOSE, 48IN
HSE01231	HOSE;3/8" Standard "B" Charging Hose, 60", B60
HSE01444	HOSE; RITCHIE 14572 3/8 INCH PLUS II HOSE, 72 INCH, YELLOW
HSE01428	HOSE; B-300 CHARGING HOSE
HSE01398	HOSE; YELLOWJACKET PLUS II 3/8 INCH "B" CHARGING HOSE, 50 FT LONG, YELLOW
HSE01313	HOSE; 3/8IN STANDARD 'B' CHARGING HOSE, 75FT
HSE01445	HOSE; RITCHIE 27836 3/8 INCH PLUS II HOSE, 36 INCH, BLUE
HSE01447	HOSE; RITCHIE 27860 3/8 INCH PLUS II HOSE, 60 INCH, BLUE
HSE01449	HOSE; RITCHIE 27872 3/8 INCH PLUS II HOSE, 72 INCH, BLUE
HSE01446	HOSE; RITCHIE 28036 3/8 INCH PLUS II HOSE, 36 INCH, RED
HSE01448	HOSE; RITCHIE 28060 3/8 INCH PLUS II HOSE, 60 INCH, RED
HSE01450	HOSE; RITCHIE 28072 3/8 INCH PLUS II HOSE, 72 INCH, RED
HSE01333	HOSE; 3/8IN STANDARD "B" CHARGING HOSE WITH FLEXFLOW VALVE, YELLOW, RITCHIE NO. 26260
HSE01293	HOSE; 3/8IN 'B' CHARGING HOSE, 60IN, 3/8IN FL X 3/8IN FL
HSE01382	HOSE; 3/8 PLUS II "B" CHARGING HOSE, 3/8 FL STR X 3/8 FL 45, YELLOW, 72 INCHES

### YELLOW JACKET® PLUS II™ 1/4" Heavy Duty Charging Hose



Heavy-duty construction for substantially increased service life. PLUS II barrier reduces permeation. Flexibility for all-weather easy handling. 3500 psi (241 bar) min. burst, 900psi (62 bar) max. working pressure; Operating temperature -20° to 200°F (-28.8° to 93.3°C); Pulls 75 micron vacuum or better on 36" hose; Note: Black only. Longer lengths available.

SERVICEFIRST ITEM NO	DESCRIPTION
HSE01520	HOSE, 15006 HCA-6 HEAVY DUTY
HSE01475	HOSE; CHARGING, YELLOW JACKET PLUS II 1/4 HEAVY DUTY, 24" LENGTH, HCA HOSE STR X ANGLE, 15024
HSE01225	HOSE; 1/4" PLUS II HEAVY DUTY CHARGING HOSE, 36", BLACK
HSE01304	HOSE, 1/4" PLUS II HEAVY DUTY CHARGING HOSE, 48"
HSE01211	HOSE; HEAVY DUTY CHARGING, 60", HCA60
HSE01245	HOSE; 1/4" PLUS II HEAVY DUTY CHARGING HOSE, 72"
HSE01476	HOSE; CHARGING, YELLOW JACKET PLUS II 1/4 HEAVY DUTY, 96" LENGTH, HCA HOSE STR X ANGLE, 15096
HSE01126	HOSE; 1/4" X 10-FT, NO ISOLATION
HSE01477	HOSE; CHARGING, YELLOW JACKET PLUS II 1/4 HEAVY DUTY, 12 FT LENGTH, HCA HOSE STR X ANGLE, 15112
HSE01455	HOSE; RITCHIE 15125 PLUS II 1/4 INCH CHARGING HOSE, 25 FT.
HSE01397	HOSE; YELLOWJACKET PLUS II 1/4 INCH HEAVY DUTY CHARGING HOSE, 50 FT LONG
HSE01314	HOSE; PLUS II HEAVY DUTY CHARGING HOSE, 72IN
HSE01375	HOSE, YELLOWJACKET PLUS II 1/4" HEAVY DUTY CHARGING HOSE WITH FLEXFLOW VALVE, 36", GOOD FOR R410A
HSE01422	HOSE; YELLOW JACKET 1/4IN PLUS II HEAVY DUTY HOSE WITH FLEXFLOW VALVE, 60IN
HSE01330	HOSE; 1/4 IN PLUS II HEAVY DUTY HOSE W/FLEXFLOW VALVE, 72 IN
HSE01437	HOSE; BCABV HEAVY DUTY HOSE, 96 INCH, BLACK
HSE01237	HOSE;1/4" Heavy Duty Plus II Charging Hose with FlexFlow valve, 25'
HSE01546	HOSE; YELLOW JACKET PLUS I 1/4" HEAVY DUTY CHARGING HOSE, 36" L, WITH BALL VALVE
HSE01376	HOSE; PLUS II 1/4IN HEAVY DUTY CHARGING HOSE WITH BALL VALVE, 60IN
HSE01473	HOSE; CHARGING, 96", YELLOW JACKET PLUS II 1/4" HEAVY DUTY, WITH BALL VALVE, 29896
HSE01489	HOSE; 1/4" HEAVY DUTY PLUS II CHARGING HOSE WITH BALL VALVE, 25', RITCHIE 29925



Refrigerant Handling

YELLOW JACKET® PLUS II™ 3/8" Heavy Duty Combination Charging/Hi-Vacuum Hose



Pull a vacuum much faster with this 3/8" heavy duty hose than with the 1/4" hose. Permeation resistant PLUS II barrier; Operating temperature -20° to 200°F (-28.8° to 93.3°C); 3000 psi (207 bar) min. burst, 600 psi (41 bar) max. working pressure; Note: Longer hose lengths available. Longer than 8' not recommended for evacuation.

SERVICEFIRST ITEM NO	DESCRIPTION
HSE01328	HOSE; 3/8 IN HEAVY DUTY PLUS II CHARGING/HI VACUUM HOSE, 12 IN
HSE01315	HOSE; 3/8IN HEAVY DUTY PLUS II CHARGING/HI-VACUUM HOSE, 36IN
HSE01302	HOSE, 3/8" HEAVY DUTY PLUS II CHARGING/HI-VACUUM, 3/8 FL X 3/8 FL, 48"
HSE01212	HOSE; HEAVY DUTY PLUS II 3/8" CHARGING/HI-VACUUM, 60", BC-60
HSE01232	HOSE;3/8" Heavy Duty Plus II Charging/Vacuum Hose, 72", BC-72
HSE01364	HOSE; 3/8 HEAVY DUTY PLUS II CHARGING/HI-VACUUM HOSE, 96"
HSE01265	HOSE; 3/8IN HEAVY DUTY PLUS II CHARGING/HI-VACUUM HOSE, 12 FT
HSE01457	HOSE; RITCHIE 15725 PLUS II 3/8 INCH CHARGING HOSE, 24 FT.
HSE01369	HOSE: YELLOWJACKET 3/8" HEAVY DUTY PLUS II CHARGING/HI-VACUUM HOSE, 3/8FL. STR. X 3/8FL. STR., 50 FT LONG
HSE01549	HOSE; 15775 HEAVY DUTY PLUS 3/8 COMBINATION CHARGING/HI-VACUUM HOSE
HSE01512	HOSE, 3/8" PLUS II HEAVY DUTY BCB-36, 3/8"STR X 3/8" 45 DEGREE FL, RITCHIE 19636
HSE01374	HOSE; 3/8" HEAVY DUTY PLUS II COMBINATION CHARGING/HI-VACUUM HOSE, 60", 3/8 FL X 3/8 FL
HSE01558	HOSE; 3/8 IN PLUS II HEAVY DUTY BCB-72, 3/8 IN STR X 3/8 IN 45 DEG FLARE, 19672
HSE01324	HOSE; 3/8IN PLUS II HEAVY DUTY CHARGING/HI-VACUUM HOSE, 1/4IN FL X 1/4IN 45, 36IN
HSE01394	HOSE; YELLOW JACKET 20260 HEAVY DUTY PLUS II 3/8 INCH CHANGING/HI-VACUUM HOSE, 60 INCH LENGTH
HSE01246	HOSE; HEAVY DUTY PLUS II 3/8" CHARGING/HI-VACUUM HOSE, 72", 1/4" FL. X 1/4" 45 DEG.
HSE01242	HOSE; HEAVY DUTY 3/8" PLUS II CHARGIN/HI-VACUUM HOSE W/FLEXFLOW VALVE, 60"
HSE01250	HOSE; HEAVY DUTY PLUS II 3/8" CHARGING/HI-VACUUM HOSE W/FLEXFLOW FITTING, 72"
HSE01438	HOSE; BCBV HEAVY DUTY HOSE, 96 INCH, BLACK
HSE01505	HOSE; HEAVY DUTY PLUS II , 10 FT, 3/8" FL STR X FLEXFLOW

# Tools and Test Equipment

## Refrigerant Handling

### YELLOW JACKET® PLUS II™ 1/2" and 5/8" Heavy Duty Combination Charging/Hi-Vacuum Hose



Heavy-use construction with PLUS II barrier technology for use with most refrigerants. Reduces permeation and vacuum loss. Large ID reduces vacuum time substantially over 1/4" or 3/8" hose. Pull a more complete vacuum; faster refrigerant transfer; faster charging on large systems; 3000 psi (207 bar) min. burst, 600 psi (41 bar) max. working pressure; 1/2" and 5/8" assemblies; various fittings available on request; 1/4" access valve connection standard on one end of CA and DA hoses; operating temperature -20° to 200°F (-28.8° to 93.3°C). Note: Black only. Longer lengths available. Hose with access valve connection - 36" hose will pull to 25 microns and lower. Hoses longer than 8' not recommended for evacuation.

SERVICEFIRST ITEM NO	DESCRIPTION
HSE01329	HOSE; 1/2 IN HEAVY DUTY PLUS II CHARGING, HI VACUUM HOSE, 36 IN
HSE01292	HOSE; HEAVY DUTY PLUS II CHARGING/HI-VACUUM, 1/2IN FL X 1/2IN FL, 48IN
HSE01280	HOSE;HEAVY DUTY PLUS II CHARGING/HI-VACUUM HOSE, 1/2" FL. X 1/2"FL.
HSE01213	HOSE; HEAVY DUTY PLUS II 1/2" CHARGING/HI-VACUUM, 72", C-72
HSE01291	HOSE, HEAVY DUTY PLUS II 1/2" CHARGING/HI-VACUUM HOSE, 1/2"FL X 1/2"FL, 96"
HSE01214	HOSE; HEAVY DUTY PLUS II 1/2" CHARGING/HI-VACUUM, 120", C-120
HSE01255	HOSE; HEAVY DUTY PLUS II 1/2IN CHARGING HOSE, C-144IN
HSE01456	HOSE; RITCHIE 15925 PLUS II 1/2 INCH CHARGING HOSE WITH FLEX FLOW FITTINGS, 25 FT
HSE01554	HOSE; 15950 1/2" HD COMBO CHARGING/VACUUM C-600, STR X STR FL
HSE01390	HOSE; 5/8 INCH YELLOW JACKET HEAVY DUTY PLUS II COMBINATION CHARGING/HI-VACUUM HOSE, 36 INCH LONG
HSE01391	HOSE; 5/8 INCH YELLOW JACKET HEAVY DUTY PLUS II COMBINATION CHARGING/HI-VACUUM HOSE, 48 INCH LONG
HSE01350	HOSE; 5/8IN YELLOW JACKET HEAVY DUTY PLUS II CHARGING HOSE, 5/8 FL X 5/8 FL, 60IN
HSE01392	HOSE; 5/8 INCH YELLOW JACKET HEAVY DUTY PLUS II COMBINATION CHARGING/HI-VACUUM HOSE, 72 INCH LONG
HSE01499	HOSE; YELLOW JACKET HEAVY DUTY PLUS II, CHARGING AND VACUUM, 5/8FL X 5/8FL, D-96", 16096
HSE01419	HOSE; YELLOW JACKET HEAVY DUTY PLUS II HOSE, 5/8 FL X 5/8 FL, 12FT LONG
HSE01458	HOSE; RITCHIE 16125 PLUS II 5/8 INCH CHARGING/HI VACUUM HOSE, 25 FT.
HSE01548	HOSE; BCA-24 HI VACUUM HOSE, 16224
HSE01323	HOSE; 3/8IN PLUS II HEAVY DUTY CHARGING/HI-VACUUM HOSE, 3/8IN FL X 1/4IN 45, 36IN
HSE01244	HOSE; HEAVY DUTY 3/8" PLUS II HCARGING/HI-VACUUM HOSE, 3/8 FL X 1/4" 45 DEG, 48"
HSE01303	HOSE, 3/8" HEAVY DUTY PLUS II CHARGING/HI-VACUUM, 3/8 FL X 1/4 45, 60"
HSE01279	HOSE;3/8" Heavy Duty Plus II Charging/Hi Vacuum Hose, 1/4" fl x 3/8" str
HSE01316	HOSE; 1/2IN HEAVY DUTY PLUS II CHARGING/HI-VACUUM HOSE, 72IN, 1/4IN ANGLE END X 1/2IN FL
HSE01215	HOSE; HEAVY DUTY PLUS II CHARGING/HI-VACUUM, 96", CA-96
HSE01216	HOSE; HEAVY DUTY PLUS II CHARGING/HI-VACUUM, DA-96
HSE01389	HOSE; YELLOW JACKET 19260 HEAVY DUTY PLUS II HOSE, 60 INCH
HSE01217	HOSE; HEAVY DUTY PLUS II CHARGING/HI-VACUUM, 72", "C" 1/2"FL X 3/8"FL
HSE01218	HOSE; HEAVY DUTY PLUS II CHARGING/HI-VACUUM, 96", "C" 1/2"FL X 3/8"FL
HSE01384	HOSE; YELLOW JACKET HEAVY DUTY PLUS II CHARGING/HI-VACUUM HOSE, 3/8 FL X 3/8 FL, 36 INCHES
HSE01461	HOSE; YELLOW JACKET HEAVY DUTY PLUS II GHARGING/HI-VACUUM HOSE, 3/8 FL X 3/8 FL, 48 INCHES
HSE01219	HOSE; HEAVY DUTY PLUS II CHARGING/HI-VACUUM, 60", "C" 3/8"FL X 3/8"FL
HSE01220	HOSE; HEAVY DUTY PLUS II CHARGING/HI-VACUUM, 72", "C" 3/8"FL X 3/8"FL
HSE01221	HOSE; HEAVY DUTY PLUS II CHARGING/HI-VACUUM, 96 IN, "C" 3/8"FL X 3/8"FL
HSE01415	HOSE; 3/8 INCH YELLOW JACKET HEAVY DUTY PLUS II CHARGING HOSE, 3/8 FL X 3/8 FL, 12 FT LONG

### YELLOW JACKET® Ammonia Charging Hose



Designed with steel quick couplers at both ends.

- Regular CH20 gaskets for 1/4" gasket (19010, 19020). CH11 gaskets for 3/8" (19011)
- 1/4" - 3500 psi (241 bar) min. burst, 900 psi (62 bar) max. working pressure
- 3/8" - 3000 psi (207 bar) min. burst, 900 psi (62 bar) max. working pressure
- Operating temperature -20° to 200°F (-28.8° to 93.3°C)

SERVICEFIRST ITEM NO	DESCRIPTION
HSE01270	HOSE; 1/4" AMMONIA CHARGING HOSE, 1/4" STR FL X 1/4" 45 DEG. 48"
HSE01425	HOSE; 1/4 IN AMMONIA CHARGING HOSE, 6FT
HSE01271	HOSE; 1/4" AMMONIA CHARGING HOSE, 1/4" STR FL X 1/4" 45 DEG. 96"

Refrigerant Handling

YELLOW JACKET® 125 and 145 lb. Cylinder Valve Adapter



Finger tight adapters fit 125 and 145 lb. cylinders. Seal remains seated. Two sizes.

SERVICEFIRST ITEM NO	DESCRIPTION
ADP00917	ADAPTER;3/4" NPS finger tight cylinder adapter with 1/4" male flare, for 125 and 145lb cylinders
ADP00918	ADAPTER;3/4" NPS finger tight cylinder adapter with 3/8" male flare, for 125 and 145lb cylinders
GKT03871	GASKET, CYLINDER VALVE GASKETS, PACK OF 10

YELLOW JACKET® Cylinder Valve Hoses



Designed for finger tight operation on 125 lb. and 145 lb. refrigerant cylinders. Gaskets seal without wrenches.

- Operating temperature -20° to 200°F (-28.8° to 93.3°C)
- 3/8" hose 3000 psi (207 bar) min. burst, 600 psi (41 bar) max. working pressure
- 1/4" heavy duty hose 3500 psi (241 bar) min. burst, 900 psi (62 bar) max. working pressure

SERVICEFIRST ITEM NO	DESCRIPTION
HSE01367	HOSE; 1/4 INCH PREMIUM CYLINDER VALVE HOSE, 1/4 INCH FE FL X 3/4 INCH NS, 72 INCH

YELLOW JACKET® PLUS II™ 3/4" Heavy Duty Charging Hose



Designed for finger tight operation on 125 lb. and 145 lb. refrigerant cylinders. Gaskets seal without wrenches.

- Operating temperature -20° to 200°F (-28.8° to 93.3°C)
- 3/8" hose 3000 psi (207 bar) min. burst, 600 psi (41 bar) max. working pressure
- 1/4" heavy duty hose 3500 psi (241 bar) min. burst, 900 psi (62 bar) max. working pressure

SERVICEFIRST ITEM NO	DESCRIPTION
HSE01560	HOSE; 3/4 IN. PLUS II E-24 HEAVY DUTY CHARGE/VACUUM, 3/4 IN. X 3/4 IN. FLARE
HSE01565	HOSE; 3/4" PLUS II HEAVY DUTY CHARGE/VACUUM 3/4" X 3/4" FLARE, E-36,
HSE01480	HOSE; HEAVY DUTY 3/4" CHARGING, 48" L, 3/4" FL X 3/4 FL, O-RING SEAL, 18448 E-48"
HSE01381	HOSE; 3/4" YELLOW JACKET HEAVY DUTY CHARGING HOSE WITH O-RING SEAL, 60 INCHES
HSE01429	HOSE; RITCHIE 18472, 3/4 INCH HEAVY DUTY CHARSING
HSE01481	HOSE; HEAVY DUTY 3/4" CHARGING, 96" L, 3/4" FL X 3/4 FL, O-RING SEAL, 18496 E-96"
HSE01252	HOSE; 3/4IN HEAVY DUTY CHARGING HOSE, PLATED STEEL 3/4IN FEMALE FLARE, 10FT LONG
HSE01482	HOSE; HEAVY DUTY 3/4" CHARGING, 12 FT, 3/4" FL X 3/4 FL, O-RING SEAL, 18512 E-144"
HSE01253	HOSE; 3/4IN HEAVY DUTY CHARGING HOSE, PLATED STEEL 3/4IN FEMALE FLARE, 20FT LONG
HSE01471	HOSE; 10' CHARGING HOSE, 3/4" HEX X 3/4" HEX COPPER GASKET SEAL, R123 COMPATIBLE, 20910
HSE01472	HOSE; 12' CHARGING HOSE, 3/4" HEX X 3/4" HEX COPPER GASKET SEAL, R123 COMPATIBLE, 20912
HSE01460	HOSE; 3/4" CHARGING HOSE, 3/4" NPT MALE X 3/4" NPT MALE, 25 FEET, R123 COMPATIBLE, 20925

YELLOW JACKET® Automotive R-134a 3-in-1 Vacuum/Charge Recover Core Tool



Core removal for vacuum and charges lets you evacuate and charge through an unrestricted line for increased speed/higher vacuum. Core replacement. Recovery valve. Core removal allows recovery unit to work at maximum efficiency, speeding recovery process.

SERVICEFIRST ITEM NO	DESCRIPTION
TOL02084	TOOL; RITCHIE 18961 HIGH-SIDE R-134A AUTO VALVE CORE TOOL
TOL02083	TOOL; RITCHIE 18962 LOW-SIDE R-134A AUTO VALVE CORE TOOL
RNG01709	O-RING; KIT FOR 41301 AND 41302 AUTO A/C COUPLERS

# Tools and Test Equipment

## Refrigerant Handling

### YELLOW JACKET® 1/4" 4-in-1 Ball Valve Tool

4-in-1 ball valve tool is perfect for vacuum, charge, cores and recovery. Vacuum valve; extra 1/4" side port on 18975 to attach electronic micron vacuum gauge right at system for greater accuracy; core removal access; lets you evacuate and charge through an unrestricted line for increased speed and higher vacuum; core replacement; recovery valve; core removal allows recovery unit to work at maximum efficiency, speeding the recovery process.

SERVICEFIRST ITEM NO	DESCRIPTION
TOL02115	TOOL; RITCHIE 18971 BALL VALVE VACUUM/CHARGE VALVE AND CORE TOOL, W/O SIDE PORT
GKT04088	GASKETS; PACKAGE OF 5 GASKETS FOR RITCHIE 18975
KIT12244	SEAL KIT FOR 18975 VALVE
GKT03859	GASKET FOR 18975 (5-PAK)
TOL01391	VACUUM/CHARGE W/BALL VALVE
TOL01430	Schrader rethreading accessory
TOL01431	Broken Schrader remover accessory
TOL01544	CORE TOOL ACCESSORY SET-2 PIECE
VAL07317	DELUXE VACUUM/CHARGE VALVE
KIT07882	GRAPPLER ROD AND NUT ASSEMBLY FOR RITCHIE VACUUM/CHARGING VALVE
TOL01429	ORIGINAL VACUUM/CHARGE VALVE W/O EXTRA 1/4" ACCESS PORT

### YELLOW JACKET® Gas Retention Valve



Sturdy valve controls refrigerant flow from access fitting. Closes Schrader before disconnecting. New back seat valve feature to retain gas in hose when disconnecting.

SERVICEFIRST ITEM NO	DESCRIPTION
VAL07202	VALVE; GAS CONTROL/RETENTION
RNG01747	O-RING; O-RING SET FOR RITCHIE 18990 AND 18993 VALVESRING; O-RING SET FOR RITCHIE 18990 AND 18993 VALVES

### YELLOW JACKET® Parts Kits & Empty Boxes



19003 complete kit includes gaskets, valve openers and SealRight parts in a 12 compartment case.

- Five 1/8" gaskets
- Five 1/8" valve openers
- 100 3/16"-1/4" gaskets
- Ten 1/4" adjustable CH14 valve openers
- Ten 1/4" CH75 flat valve openers
- Ten 3/8" CH11 gaskets
- Ten 1/2"-5/8" CH80 gaskets
- Ten cylinder valve flat gaskets
- Ten SealRight "O" rings
- Four SealRight plug and seal assemblies
- Four 1/4" SealRight nuts and clips

SERVICEFIRST ITEM NO	DESCRIPTION
KIT07451	KIT; HOSE, MAINTENANCE

### YELLOW JACKET® Quick Coupler Gaskets and "O" Rings

The only gaskets designed for optimum performance with YELLOW JACKET® Charging Hoses. Works with all refrigerants. Manufactured to strict tolerances to resist blow out.

SERVICEFIRST ITEM NO	DESCRIPTION
GKT03847	GASKET;CH20/100 Gaskets for 1/4" Hose
KIT07452	KIT; GASKET/VALVE REPL. PAK
KIT07453	KIT; CH-11 BULK GASKET
RNG01858	O-RING; QUICK COUPLER O-RING FOR RITCHIE 3/4 INCH HOSE, PACKAGE OF 10
GKT03872	GASKET; CH80 QUICK COUPLER GASKETS FOR 1/2" - 5/8" HOSES
KIT07454	KIT; CH-20 BULK GASKET, 1/4" HOSE
GKT03860	GASKET; 1/8" QUICK COUPLER GASKET (10 PAK)
RNG01690	RING; QUICK COUPLER 1/4" O-RING
RNG01892	RNG; 3/8" QUAD O-RINGS, 19026, PACKAGE OF 10
RNG01748	O-RING; O-RING FOR SUPEREVAC MANIFOLDS

Refrigerant Handling

YELLOW JACKET® Quick Coupler-Style Braze-In Fittings



Style Braze-In Fittings - Braze-in brass fitting with replaceable soft seat. Quick coupler-style fittings are the same as supplied on metal hose.

SERVICEFIRST ITEM NO	DESCRIPTION
FTG01025	FITTING; QUICK COUPLER-STYLE BRAZE-IN FITTING, 1/4IN STR FE, FL. W/CH20 GASKET, RITCHIE 19082
FTG00883	FITTING; QUICK COUPLER STYLE BRAZE IN FITTING, 1/2" STR. ONLY FE. W/QUAD RING
VAL07572	VALVE; 1/4IN YELLOW COMPACT BALL VALVE ADAPTER ASSEMBLY
VAL08311	VALVE; 1/4IN BLUE COMPACT BALL VALVE ADAPTER ASSEMBLY, 29201
HSE01483	HOSE; RED BALL VALVE ADAPTER, 29601

YELLOW JACKET® Snap-It™ Coupler



Snaps on over 1/4" flare threads with Schrader cores and forms tight connection immediately. Instantly activates the Schrader in access fitting. Instantly shuts off end of hose when sleeve is pulled back and coupler pops off access fitting. Virtually no gas release to atmosphere. Eliminates frostbite. One piece construction. For up to 600 psi.

SERVICEFIRST ITEM NO	DESCRIPTION
CPL00926	COUPLING; Snap-It Coupler

YELLOW JACKET® SealRight™ Quick Couplers



Innovative SealRight fittings automatically and immediately trap refrigerant in the hose when disconnected, helping meet non-venting regulations and preventing finger burns. One-piece attaches quickly, saving up to 50 percent in time compared to 2-piece quick couplers. Works with or without Schrader core. Gaskets resist deterioration from CFC, HCFC, HFC refrigerants, and new oils. Field serviceable. Not recommended for R-410A systems.

SERVICEFIRST ITEM NO	DESCRIPTION
CPL01002	COUPLING, SET OF RITCHIE 19109 AND 19209 QUICK COUPLERS
CPL00924	COUPLER; 1/4" SEALRIGHT STR X 1/4" MALE FL.
CPL00945	COUPLING, SEALRIGHT QUICK COUPLER, 1/4IN SEALRIGHT STR X 3/8IN MALE FL
CPL00948	COUPLING; 1/4IN SEALRIGHT 90 DEG X 3/8IN M FL
CPL00944	COUPLING; SEALRIGHT QUICK COUPLER, 1/4IN SEALRIGHT STRAIGHT X 1/8IN FE FPT
CPL00955	COUPLING; 1/4 IN SEALRIGHT QUICK COUPLER, 1/4 IN F.E.FPT
CPL01029	COUPLING; SEALRIGHT QUICK COUPLER, ACME 1/2" X SEALRIGHT X 1/4" MALE FLARE
CPL00928	COUPLING; SEALRIGHT QUICK COUPLER, 1/4" SEALRIGHT 45 DEG. X 1/4" MALE FL.
CPL00925	COUPLER; 1/4" SEALRIGHT 90 X 1/4" MALE FL
KIT07476	KIT; SealRight Plug Assembly with all Seals
KIT07554	KIT; REPAIR KIT FOR 1/4" SEALRIGHT FITTING, INCLUDES NUT AND CLIP
KIT07517	KIT; SEALRIGHT QUICK COUPLER REBUILD KIT
KIT08092	KIT; SEALRIGHT QUICK COUPLER OVERHAUL KIT

# Tools and Test Equipment

## Refrigerant Handling

### YELLOW JACKET® Quick Couplers



Full size with deep knurling for easy handling. Special features include patented CH14 "Adjust-a-Valve" opener in all 1/4" female ends. Acme conversion couplers are available for recovery tank threads and R-134a cylinder threads.

SERVICEFIRST ITEM NO	DESCRIPTION
CPL01014	COUPLING; YELLOW JACKET QUICK COUPLER, 1/4 FEMALE QC X 1/4 M FLARE
CPL00932	COUPLING; 1/4" FEMALE QUICK, X 3/8" MALE FLARE
CPL00933	COUPLING; 3/8" FEMALE X 1/4" MALE FLARE
CPL00939	COUPLING, QUICK COUPLER, 1/4 IN FE QC X 1/8IN MALE NPT
CPL00940	COUPLING; STRAIGHT QUICK COUPLER, 1/4IN FE QC STR X 1/8IN MALE NPT
CPL00942	COUPLING; STRAIGHT QUICK COUPLER, 1/4IN FE QC STR X 1/4IN FE NPT
CPL00941	COUPLING; STRAIGHT QUICK COUPLER, 1/4IN FE QC STR X 1/4IN MALE NPT
CPL00965	COUPLING; STRAIGHT QUICK COUPLER, 3/8" FE QC X 1/2" MALE FL
CPL01000	COUPLING, RITCHIE STRAIGHT QUICK COUPLER, 1/2" FE QC X 3/8" M FL
CPL00946	COUPLING, YELLOW JACKET QUICK COUPLER, 3/16IN FE QC X 1/4IN M FL (GM)
CPL00947	COUPLING, YELLOW JACKET QUICK COUPLER, 1/8IN FE QC X 1/4IN M FL (FORD)
CPL00943	COUPLING; QUICK COUPLER, 1/4IN FE QC X 1/8IN MALE ACME
CPL00935	COUPLING; 1/2" ACME FEMALE X 1/4" MALE FL
CPL01043	COUPLING; YELLOW JACKET QUICK COUPLER, 5/16 INCH FEMALE QC X 1/4 INCH MALE FL, 19173
CPL01044	COUPLING; YELLOW JACKET QUICK COUPLER, 1/4 INCH FEMALE QC X 5/16 INCH MALE FL, 19174
ADP01140	ADAPTER; RITCHIE 19158, Q.C. 1/2 ACME QC X 14 MM
CPL00927	COUPLING; 90 Deg. Quick Coupler, 1/4" Fem QC x 1/4" Male Flare
CPL00949	COUPLING; 1/4IN QUICK COUPLER X 1/4IN FPT 90 DEG
CPL00997	COUPLING; YELLOW JACKET GAUGE QUICK COUPLER WITH CH14 ADJUSTABLE VALVE OPENER, 1/4 INCH FEMALE QC 90 X 1/8 INCH FE NPT

### YELLOW JACKET® Vacuum Pump Intake Reducer Adapter



Reducing adapters for pump intake on SuperEvac™ and other vacuum pumps.

SERVICEFIRST ITEM NO	DESCRIPTION
ADP00938	ADAPTER; 3/8IN FE FL X 1/4IN M FL
ADP00921	ADAPTER; PUMP INTAKE FITTING ADAPTER. 1/2" FE FL X 3/8 M FL
ADP00939	ADAPTER; 1/2IN FE FL X 1/4IN M FL
ADP00915	ADAPTER VACUUM PUMP INTAKE ADAPTER, 3/8 IN FE FL X 1/2 IN M FL ADAPTER

### YELLOW JACKET® Add-a-Hose Couplers Unions



Add-a-Hose couplers easily connect hoses to the length desired.

SERVICEFIRST ITEM NO	DESCRIPTION
CPL00956	COUPLING, 1/2 IN M FL X 1/2 IN M FL ADD-A-HOSE COUPLER

### YELLOW JACKET® A/C Fittings Couplers



Adapter fitting designed to work with 1/2" Acme or 14mm threads

SERVICEFIRST ITEM NO	DESCRIPTION
CPL00998	COUPLING; AUTOMOTIVE A/C COUPLER, 14MM M. X 3/8IN M FL
FTG00865	FITTING; ADAPTER, 14MM M. X 1/4" MALE FL.
CPL00950	COUPLING; 1/2IN ACME M X 1/8IN MPT HALF UNION

### YELLOW JACKET® Quick Couplers with Schrader Core in Male End



All couplers have Schrader valve cores in male flare end. Female coupler end has deep knurling for easy handling. Patented CH14 "Adjust-a-Valve" opener in all 1/4" female ends.

SERVICEFIRST ITEM NO	DESCRIPTION
CPL00964	COUPLING; YELLOW JACKET QUICK COUPLER, 1/4" FE QC X 1/4" M FL
CPL00988	COUPLING; YELLOW JACKET QUICK COUPLER, 3/8IN FEMALE QC X 1/4IN MALE FL, STRAIGHT
CPL00963	COUPLER; 90 DEG 1/4" FEM QC X 1/4" M FLARE QUICK COUPLER, RITCHIE NO. 19191
CPL00989	COUPLING; YELLOW JACKET QUICK COUPLER, 3/8IN FEMALE QC X 1/4IN MALE FL, 90 DEG BEND

**Refrigerant Handling**

**YELLOW JACKET® Adjust-a-Valve™ Openers**

The patented "Adjust-a-Valve" opens out of tolerance Schrader valves in 1/4", 3/16" and 5/16" couplers. Simply rotate the opener with needle nose pliers to desired height. When finished, rotate back. "Adjust-a-Valve" for 1/4" & 5/16" hoses is the same.

SERVICEFIRST ITEM NO	DESCRIPTION
TOL01509	TOOL; 1/4" VALVE OPENER, 10-PAK
TOL01465	TOOL; CH14 ADJUST-AVALVE OPENER, 10 PACK
TOL01508	TOOL; 3/16" VALVE DEPRESSOR, 10-PAK

**YELLOW JACKET® PLUS II™ 1/4" Charging Hoses with Double Barrier Protection**



YELLOW JACKET PLUS II hoses have proven performance benefits of the original line, plus double barrier protection for CFC, HCFC and HFC. Nylon permeation barrier meets UL requirements. 1/4" PLUS II hose is also a UL 1963 recognized component for R-12, R-22, R-500, R-502 and R-134a; Moisture barrier provides improved resistance to moisture migration which contaminates expensive refrigerant; 4000 psi (276 bar) min. burst and 800 psi (55 bar) max. working pressure for a 5-to-1 safety factor; Color-coded 3-Pak has an operating temperature of -20° to 180°F (-28.8° to 82.2°C).

SERVICEFIRST ITEM NO	DESCRIPTION
HSE01222	HOSE; PLUS II 1/4" CHARGING, 12", HAV TYPE, STANDARD FITTINGS
HSE01294	HOSE; 1/4IN PLUS II W/STANDARD FITTINGS, 18IN YELLOW
HSE01172	HOSE; CHARGING, 1/4", YELLOW, 36", HAV36Y
HSE01233	HOSE;1/4" PLUS II CHARGING HOSE, 48", YELLOW, STANDARD 1/4" FITTINGS
HSE01175	HOSE; CHARGING, 1/4", YELLOW, 60", 60HAV60Y
HSE01178	HOSE; CHARGING, 1/4", YELLOW, 72", HAV72Y
HSE01443	HOSE; YELLOWJACKET 21112 1/4 INCH CHARGING HOSE, STANDARD FITTINGS, 12 FT LONG, YELLOW
HSE01403	HOSE; YELLOW JACKET 1/4 INCH PLUS II HOSE WITH STANDARD FITTINGS, 25 FT., YELLOW
HSE01254	HOSE; YELLOW JACKET PLUS II 1/4IN CHARGING HOSE W/STANDARD FITTINGS, 50FEET
HSE01355	HOSE; 1/4IN YELLOW JACKET PLUS II HOSE WITH STANDARD FITTING, 200FT LENGTH, YELLOW
HSE01352	HOSE, 1/4IN YELLOW JACKET PLUS II HOSE WITH STANDARD FITTING, 100FT LENGTH, YELLOW
HSE01295	HOSE; 1/4IN PLUS II W/STANDARD FITTINGS, 12IN BLUE
HSE01296	HOSE; 1/4IN PLUS II W/STANDARD FITTINGS, 18IN BLUE
HSE01173	HOSE; CHARGING, 1/4", BLUE, 36", HAV36B
HSE01297	HOSE; 1/4IN PLUS II W/STANDARD FITTINGS, 48IN BLUE
HSE01176	HOSE; CHARGING, 1/4", BLUE, 60", HAV60B
HSE01179	HOSE; CHARGING, 1/4", BLUE, 72", HAV72B
HSE01356	HOSE; 1/4IN YELLOW JACKET PLUS II HOSE WITH STANDARD FITTING, 200FT LENGTH, BLUE
HSE01353	HOSE; 1/4IN YELLOW JACKET PLUS II HOSE WITH STANDARD FITTING, 100FT LENGHT, BLUE
HSE01298	HOSE; 1/4IN PLUS II W/STANDARD FITTINGS, 12IN RED
HSE01299	HOSE; 1/4IN PLUS II W/STANDARD FITTINGS, 18IN RED
HSE01174	HOSE; 1/4 IN, RED, 36", HAV36R
HSE01300	HOSE; 1/4IN PLUS II W/STANDARD FITTINGS, 48IN RED
HSE01177	HOSE; CHARGING, 1/4", RED, 60", HAV60R
HSE01180	HOSE; CHARGING, 1/4", RED, 72", HAV72R
HSE01357	HOSE; 1/4IN YELLOW JACKET PLUS II HOSE WITH STANDARD FITTING, 200FT LENGTH, RED
HSE01354	HOSE; 1/4IN YELLOW JACKET PLUS II HOSE WITH STANDARD FITTING, 100F LENGTH, RED
HSE01181	HOSE; CHARGING, 1/4", 3-PAK, 36", HAV36RYB
HSE01238	HOSE; PLUS II CHARGING HSE W/STANDARD 1/4" FITTINGS, 3-PAK RYB, 48"
HSE01182	HOSE; CHARGING, 1/4", 3-PAK, 60", HAV60RYB
HSE01183	HOSE; 1/4", 3-PAK, 72", HAV72RYB
HSE01556	HOSE; 3 PACK PLUS II 1/4" HOSE, 96". 21988

# Tools and Test Equipment

## Refrigerant Handling

### YELLOW JACKET® PLUS II™ 1/4" with SealRight™ low loss anti-blow back fitting



Low loss anti-blow back SealRight fitting immediately traps refrigerant in the hose when disconnected, helping meet non-venting regulations and prevent finger burns.

- Rubber layer for permeation, braid for strength and outer cover for protection
- Fully UL recognized assemblies (File SA9737)
- 45° end for easy installation in tight areas
- Gaskets resist deterioration from existing CFCs, plus new HFC refrigerants and oils
- Available with SealRight fittings on both ends
- Operating temperature -20° to 180°F (-28.8° to 82.2°C)
- 4000 psi (276 bar) min. burst, 800 psi (55 bar) max. working pressure
- Use PLUS II hose with compact ball valve for R-410A.

SERVICEFIRST ITEM NO	DESCRIPTION
HSE01288	HOSE; 12IN PLUS II HOSE W/SEALRIGHT FITTING, YELLOW
HSE01234	HOSE; 1/4" Plus II Charging Hose w/SealRight Fitting, 24", Yellow, Standard 1/4" Fittings
HSE01184	HOSE; CHARGING, 1/4", YELLOW, 36", HAVS36Y
HSE01235	HOSE; 1/4" Plus II Charging Hose w/SealRight Fitting, 48", Yellow, Standard 1/4" Fittings
HSE01187	HOSE; CHARGING, 1/4", YELLOW, 60", HAVS60Y
HSE01190	HOSE; CHARGING, 1/4", YELLOW, 72", HAVS72Y
HSE01370	HOSE; PLUS II HOSE WITH SEALRIGHT FITTING, 10' LONG, YELLOW
HSE01404	HOSE; YELLOW JACKET 1/4 INCH PLUS II HOSE WITH SEALRIGHT FITTING, 12 FT., YELLOW
HSE01405	HOSE; YELLOW JACKET 1/4 INCH PLUS II HOSE WITH SEALRIGHT FITTING, 50 FT., YELLOW
HSE01289	HOSE; 12IN PLUS II HOSE W/SEALRIGHT FITTING, BLUE
HSE01185	HOSE; CHARGING, 1/4", BLUE, 36", HAVS36B
HSE01239	HOSE; PLUS II CHARGING HOSE W/SEALRIGHT 1/4" FITTINGS, 48" BLUE
HSE01188	HOSE; CHARGING, 1/4", BLUE, 60", HAVS60B
HSE01191	HOSE; CHARGING, 1/4", BLUE, 72", HAVS72B
HSE01440	HOSE; RITCHIE 22312 PLUS II HOSE WITH SEALRIGHT FITTING, BLUE, 12 FOOT
HSE01290	HOSE; 12IN PLUS II HOSE W/SEALRIGHT FITTING, RED
HSE01186	HOSE; CHARGING, 1/4", RED, 36", HAVS36R
HSE01272	HOSE; 1/4" PLUS II CHARGING HOSE W/SEALRIGHT FITTING, 48", RED
HSE01189	HOSE; CHARGING, 1/4", RED, 60", HAVS60R
HSE01192	HOSE; CHARGING, 1/4", RED, 72", HAVS72R
HSE01441	HOSE; RITCHIE 22712 PLUS II HOSE WITH SEALRIGHT FITTING, RED, 12 FOOT
HSE01193	HOSE; CHARGING, 1/4", 3-PAK, 36", HAVS36RYB
HSE01240	HOSE PLUS II CHARGING HOSE W/SEALRIGHT 1/4" FITTINGS, 3-PAK RYB, 48"
HSE01194	HOSE; CHARGING, 1/4", 3-PAK, 60", HAVS60RYB
HSE01195	HOSE; CHARGING, 1/4", 3-PAK, 72", HAVS72RYB
HSE01433	HOSE; RITCHIE 22988 PLUS II HOSE WITH SEALRIGHT FITTING, 3-PAK

### YELLOW JACKET® 9" FlexFlow™ and Low Loss Adapter Hoses



Easy retrofit of existing PLUS II hoses with ball valve capabilities. Flexible hose between valve and fitting for handling in tight areas. Operating temperature -20° to 180°F (-28.8° to 82.2°C).

SERVICEFIRST ITEM NO	DESCRIPTION
VAL08311	VALVE; 1/4IN BLUE COMPACT BALL VALVE ADAPTER ASSEMBLY, 29201
HSE01365	HOSE; 9" FLEXFLOW AND LOW LOSS ADAPTER HOSES, 3-PAK RYB
HSE01361	HOSE; YELLOW FLEXFLOW REPLACEMENT HOSE
ADP00919	ADAPTER; 1/4" Yellow FlexFlow Adapter
HSE01247	HOSE; 1/4" BLUE FLEXFLOW ADAPTER
HSE01248	HOSE; 1/4" RED FLEXFLOW ADAPTER
HSE01226	HOSE; 1/4" HEAVY DUTY FLEXFLOW ADAPTER
HSE01227	HOSE; 3/8" HEAVY DUTY FLEXFLOW ADAPTER
HSE01228	HOSE; 9" FLEXFLOW ADAPTER HOSES, 3-PAK CONSISTING OF 25002, 25202, 25602 HOSES
ADP00982	ADAPTER; ACME 1/2IN YELLOW FLEXFLOW ADAPTER
VAL07445	VAL; 3/8" REPLACEMENT BALL VALVE FOR FLEXFLOW BALL VALVE ASSEMBLY
VAL07316	VALVE, FULL CONTROL BALL VALVE FOR VACUUM/CHARGING, M.FL. X 1/4" FPT
VAL07517	VALVE; RITCHIE 1/4 INCH COMPACT BALL VALVE, 3 PACK
VAL07476	VALVE; RITCHIE 1/4IN COMPACT BALL VALVE, 45 DEG



Refrigerant Handling

YELLOW JACKET® PLUS II™ 1/4" Hose with FlexFlow™ Valve



- Improved smaller ergonomic valve with zero restriction for maximum flow.
- The patented Adjust-a-Valve™ Opener easily opens all out of tolerance Schrader valves
  - Rubber layer for permeation, braid for strength, and outer cover for protection
  - Fully recognized assemblies (File SA9737)
  - Valve handle position shows when valve is opened or closed
  - Flexible length of hose between valve and fitting makes access easier to tight areas
  - Metal handle
  - 4000 psi (276 bar) min. burst and 800 psi (55 bar) max. working pressure
  - Operating temperature -20° to 180°F (-28.8° to 82.2°C)

SERVICEFIRST ITEM NO	DESCRIPTION
HSE01236	HOSE; 1/4" Plus II Charging Hose w/FlexFlow Valve one end, 36", Yellow
HSE01387	HOSE; YELLOWJACKET PLUS II HOSE WITH FLEXFLOW VALVE, 60 INCH, BLUE
HSE01388	HOSE; YELLOWJACKET PLUS II HOSE WITH FLEXFLOW VALVE, 60 INCH, RED
HSE01545	HOSE; 25983 PLUS II HOSE WITH FLEXFLOW VALVE, 36"L, 3 PACK
HSE01417	HOSE; YELLOWJACKET PLUS II HOSE W/FLEXFLOW VALVE, 48IN, 3-PAK
HSE01251	HOSE; 1/4" PLUS II CHARGING HOSE W/FLEXFLOW VALVE, 3-PAK, 6"
HSE01249	HOSE; 1/4" PLUS II CHARGING HOSE W/FLEXFLOW FITTING, 72", 3-PAK
HSE01256	HOSE; YELLOW JACKET PLUS II 1/4IN CHARGING HOSE W/FLEXFLOW FITTING, 96IN, 3-PAK

YELLOW JACKET® Automotive Manifold Hoses for R-134a Systems



These 1/4" hoses combine PLUS II hose with 1/2" Acme fittings to meet SAE requirements. You get PLUS II double-barrier protection in a hose manufactured specifically for automotive applications. Threads are 1/2" Acme Female, 14 mm Male and 1/2" Acme SealRight™ fittings.

- 4000 psi (276 bar) min. burst, 800 psi (55 bar) max. working pressure
- Operating temperature -20° to 180°F (-28.8° to 82.2°C)

Note: Longer lengths available. These fittings are not suitable for regular HVAC/R applications.

SERVICEFIRST ITEM NO	DESCRIPTION
HSE01359	HOSE; 3-PAK AUTO, 60 INCH RYB
HSE01317	HOSE; PLUS II 134A AUTOMOTIVE CHARGING HOSE, 36IN, BLUE
HSE01327	HOSE; 1/4IN PLUS II HOSE W/ACME AUTOMOTIVE FITTINGS, 48IN, BLUE
HSE01318	HOSE; PLUS II 134A AUTOMOTIVE CHARGING HOSE, 36IN, RED
HSE01326	HOSE; 1/4IN PLUS II HOSE W/ACME AUTOMOTIVE FITTINGS, 48IN, RED

YELLOW JACKET® PLUS II™ 1/4" with Compact Ball Valve End



- Improved compact design ball valve with metal handle at end of hose fits tight areas and traps all the gas.
- The patented Adjust-a-Valve™ Opener easily opens all out of tolerance Schrader valves
  - Rubber layer for permeation, braid for strength, and outer cover for protection
  - Fully recognized assemblies (File SA9737)
  - Full flow valve for faster recovery
  - Low loss fitting
  - Hose and ball valve rated for higher pressure. 4000 psi (276 bar) min. burst and 800 psi (55 bar) max. working pressure uses standard gasket and valve opener
  - Operating temperature -20° to 180°F (-28.8° to 82.2°C)

SERVICEFIRST ITEM NO	DESCRIPTION
HSE01196	HOSE; CHARGING, 1/4", YELLOW, 36", HBVV36Y
HSE01308	HOSE, 1/4" PLUS II W/MINI BALL VALVE, YELLOW, 48"
HSE01199	HOSE; CHARGING, 1/4", YELLOW, 60", HBVV60Y
HSE01202	HOSE; CHARGING, 1/4", YELLOW, 72", HBVV72Y
HSE01371	HOSE; PLUS II HOSE WITH COMPACT BALL VALVE, 12' LONG, YELLOW
HSE01197	HOSE; CHARGING, 1/4 IN, BLUE, 36 IN, HBVV36B
HSE01309	HOSE, 1/4" PLUS II W/MINI BALL VALVE, BLUE, 48"
HSE01200	HOSE; CHARGING, 1/4", BLUE, 60", HBVV60B
HSE01203	HOSE; 1/4", BLUE, 72", HBVV72B
HSE01372	HOSE; PLUS II HOSE WITH COMPACT BALL VALVE, 12' LONG, BLUE
HSE01198	HOSE; CHARGING, 1/4", RED, 36", HBVV36R
HSE01310	HOSE, 1/4" PLUS II W/MINI BALL VALVE, RED, 48"
HSE01201	HOSE; CHARGING, 1/4", RED, 60", HBVV60R
HSE01204	HOSE; CHARGING, 1/4", RED, 72", HBVV72R
HSE01373	HOSE; PLUS II HOSE WITH COMPACT BALL VALVE, 12' LONG, RED
HSE01205	HOSE; CHARGING, 1/4 IN, 3-PAK, 36 IN, HBVV36RYB
HSE01243	HOSE; HEAVY DUTY 1/4" PLUS II CHARGING HOSE W/MINI BALL VALVE, 3-PAK RYB, 48"
HSE01206	HOSE; CHARGING, 1/4", 3-PAK, 60", HBVV60RYB
HSE01207	HOSE; CHARGING, 1/4", 3-PAK, 72", HBVV72RYB

# Tools and Test Equipment

## Refrigerant Handling

### YELLOW JACKET® PLUS II™ 1/4" for 5/16" service ports for R-410A



Available with standard fittings or compact ball valve.

- Moisture barrier provides maximum resistance to moisture migration which contaminates expensive refrigerants.
- 4000 psi (276 bar) min. burst and 800 psi (55 bar) max. working pressure
- Compatible with both POE and PVE oils
- Operating temperature -20° to 180°F (-28.8° to 82.2°C)

SERVICEFIRST ITEM NO	DESCRIPTION
HSE01340	HOSE; PLUS II HOSE WITH REGULAR FITTINGS AND 1/4" X 5/16" 45 DEG BALL ANGLE VALVE, 60", YELLOW
HSE01341	HOSE; PLUS II HOSE WITH REGULAR FITTINGS AND 1/4" X 5/16" 45 DEG BALL ANGLE VALVE, 60", BLUE
HSE01342	HOSE; PLUS II HOSE WITH REGULAR FITTINGS AND 1/4" X 5/16" 45 DEG BALL ANGLE VALVE, 60", RED

### YELLOW JACKET® PTFE Hoses and Assemblies



Specially-designed hose provides strength with stainless steel braid over a PTFE core.

- Resistance to most corrosive materials
- Temperatures range from -65° to 450°F (-53.9° to 232.2°C)
- Variety of applications - high and low pressure chemical lines, hot water, steam, oil, air, petroleum products, food processing and more
- 3/16" - 3/4" Female flare swivel brass fittings; 1/8" - 1" NPT Male brass fittings
- 1/4" 90° x 1/4" straight flare
- Minimum length 12"

Note: Not recommended for refrigerants because of permeation rate.

SERVICEFIRST ITEM NO	DESCRIPTION
HSE01551	HOSE; ASSEMBLY, 1/4" FF/90 DEGREE X 24" PTFE
HSE01550	HOSE; PTFE, 1/4" FF/FF X 24"
HSE01332	HOSE; YELLOW JACKET PTFE HOSE, 36IN, RITCHIE NO. 31236
HSE01349	HOSE; YELLOW JACKET PTFE HOSE, 5/16" ID, 24" LENGTH, BRASS SAE FE FL EACH END
HSE01559	HOSE; YELLOW JACKET TEFLON PTFE HOSE 5/8 IN. FLARE X 18 IN. PTFE

### YELLOW JACKET® Vacuum Pump Adapter



Convert a 3/8" or 1/2" vacuum pump intake into 1/4" R-12 and 1/2" Acme R-134a compatible fittings.

SERVICEFIRST ITEM NO	DESCRIPTION
ADP01121	ADAPTER; 1/2" PUMP ADAPTER WITH 1/4" FLARE AND 1/2" ACME MALE FITTING, RITCHIE 36018
ADP01122	ADAPTER; 3/8" PUMP ADAPTER WITH 1/4" FLARE AND 1/2" ACME MALE FITTING, RITCHIE 36018
KIT07453	KIT; CH-11 BULK GASKET
GKT03872	GASKET; CH80 QUICK COUPLER GASKETS FOR 1/2" - 5/8" HOSES

### YELLOW JACKET® R-134a and R-12 Can Taps



With side tap, handles slip around and close to pierce the can. Small inserts for use with lubricant cans.

Check valve on side taps help prevent back pressure into can. Not for use with other refrigerants

SERVICEFIRST ITEM NO	DESCRIPTION
TOL02559	TOOL; R-12 SIDE CAN TAP, RITCHIE 36193

### YELLOW JACKET® Retrofit Accessory Tools



Valve core removers/installers.

SERVICEFIRST ITEM NO	DESCRIPTION
TOL02142	TOOL; R-134A UNIVERSAL LARGE BORE CORE REMOVER/INSTALLER, RITCHIE 36271

Refrigerant Handling

YELLOW JACKET® NH3 Ammonia Manifold and Hose



This heavy-duty manifold features cast iron body and full size metal handles. Finger-tight one-piece valve stem for positive seal on nylon seat. Dual temperature/pressure R717 gauge has bar with °C and psi with °F ammonia scales.

SERVICEFIRST ITEM NO	DESCRIPTION
MFD00933	MANIFOLD; AMMONIA MANIFOLD BODY W/VALVES
MFD00944	MANIFOLD; STEEL AMMONIA MANIFOLD AND GAUGES
GAG00955	GAUGE; AMMONIA MANIFOLD WITH 48IN HOSES

YELLOW JACKET® Ammonia Gauges °F



Ammonia gauges are designed for use on manifolds and as permanent gauges on any system or equipment charged with ammonia. The bourbon tube is made of 316 stainless. The sockets are steel. The dials show dual temperature and pressure scales. All gauges are equipped with restrictors to protect the gauges against pulsating pressure. Steel gauge cases are painted black. Gauges calibrated to 3-2-3% accuracy. 1/4" NPT Male connection. 2-1/2" & 3-1/2" with dual scale dials.

SERVICEFIRST ITEM NO	DESCRIPTION
GAG00899	GAUGE; AMMONIA GAUGE, 30" -0- 150PSI, 1/4" MPT
GAG00900	GAUGE; AMMONIA GAUGE, 30" -0- 400 PSI, 1/4" MPT

YELLOW JACKET® Manifold Parts

SERVICEFIRST ITEM NO	DESCRIPTION
KNB00138	KNOB; Yellow Knob for Series 49 and 47 Manifold
KNB00144	KNOB; BLUE KNOB ASSEMBLY FOR RITCHIE SERIES 49 MANIFOLD
KNB00139	KNOB; Red Knob for Series 49 and 47 Manifold
KNB00143	KNOB; WHITE KNOB ASSEMBLY FOR RITCHIE
TOL01512	TOOL; HANGING HOOK FOR MANIFOLD
RNG01750	ORING; RETAIN NUT ORING FOR RITCHIE MANIFOLD
RNG01829	RING; BANTAM O-RINGS

YELLOW JACKET® Single Valves



Individual manifolds for high and low sides of system. Individual valves are available in two or three port versions. Nylon seals with double "O" rings.

SERVICEFIRST ITEM NO	DESCRIPTION
MFD00986	MANIFOLD; HIGH-SIDE MANIFOLD WITH GAUGE
MFD00987	MANIFOLD; LO-SIDE MANIFOLD WITH GAUGE
VAL07246	VALVE; 3-PORT, 1/8"NPT FEMALE X TWO 1/4" MALE FLARES

YELLOW JACKET® Automotive R-134a A/C Coupler



Premium - Couplers interface with R-134a service ports. 14 mm female thread or 1/4" male flare available. Quick, easy connect/disconnect; Control valve for access to systems even at working pressures; Integral safety sleeve holds coupler securely to service port; Highest flow characteristics; Low profile for tight applications.

SERVICEFIRST ITEM NO	DESCRIPTION
CPL01089	COUPLING; HIGH SIDE 90 DEGREE AUTO COUPLING 14M, 40321
CPL01084	COUPLING; 40322 LO SIDE 90@ AUTO CPLR 14M
CPL01083	COUPLER; R134A PREMIUM A/C COUPLER, 1/4 MALE FLARE, 90 DEG HIGH SIDE, WITH CONTROL VALVE, 40323
CPL01082	COUPLER; R134A PREMIUM A/C COUPLER, 1/4 MALE FLARE, 90 DEG LOW SIDE, WITH CONTROL VALVE, 40324

YELLOW JACKET® Single Test Gauges



Quick pressure checks - use low or high side gauge with quick coupler to attach directly to system or tanks.

SERVICEFIRST ITEM NO	DESCRIPTION
GAG00915	GAUGE; RED PRESSURE GAUGE W/QUICK COUPLER FOR RECOVERY TANK PRESSURE CHECKS
GAG00916	GAUGE; BLUE COMPOUND GAUGE W/QUICK COUPLER FOR RECOVERY TANK PRESSURE CHECKS
GAG00933	GAUGE; YELLOWJACKET RED PRESSURE GAUGE W/QUICK COUPLER AND 12" HOSE
GAG00934	GAUGE; YELLOWJACKET BLUE COMPOUND GAUGE W/QUICK COUPLER AND 12" HOSE

# Tools and Test Equipment

## Refrigerant Handling

### YELLOW JACKET® Digital Refrigeration System Analyzer



For time saving diagnostics, the easy-to-read pressured bar graphs of this patented unit quickly tell you more than you could ever see with the vibrating needle of a typical pressure gauge. You see pressure dynamics to readily know if the system's thermostatic expansion valve is modulating properly, if liquid is flooding back into the systems, and more. Saturation, subcooling, and superheat readings are automatic to eliminate fishing in your wallet for reference cards. This almost immediate knowledge of system behavior and faults can help save up to 10 minutes and more on many jobs.

**Features:**

- Profiles 23 common refrigerants:  
R-12, 22, 134a, 290, 401A, 401B, 402A, 402B, 404A, 406A, 407C, 408A, 409A, 410A, 414B, 416A, 417A, 420A, 422A, 502, 507, 508B, 600A (Upgradeable probe for new refrigerants)
- Integrated temperature probe for automatic superheat and subcooling readings
- Max and min pressure monitoring for control set-up
- Auto zero key to eliminate manual recalibration
- Vacuum detection in Hg
- Easy-to-read LCD screen with large 3/8" digits
- Rugged case construction with rubber boot to tolerate impact and resist typical oils, acids, and sunlight
- 2 year warranty

**Easy to Use:**

- Bar graph segments shows changes from digital reading (range of ±2 psi on low side, ±8 psi on high side)
- Digital readings show resolution of 1/4 psi on low side, 1 psi on high side
- Temperature in middle is corresponding bubble and dew points for current pressures
- Temperature, superheat or subcooling shown on lower right (eg. 14°F superheat)

**Specifications:**

- Pressure accuracy: 0.5% F.S. ± 1 least significant digit, calibration traceable to NIST
- Pressure ports: Two 1/8" acting as low and high side gauges
- Working pressure: Low side: 0-200 psi (1350 kPa, 13.5 bar) High side: 0-550 psi (3790 kPa, 37.9 bar)
- Proof pressure: Low side: 600 psi (4100 kPa, 41 bar) High side: 1500 psi (10300 kPa, 103 bar)
- Temperature sensor range: -40° to 250°F (-40° to 125°C)
- Temperature accuracy: ±0.9°F (±0.5°C) between 32° to 158°F (0° to 70°C)
- Usage environment: Indoor/Outdoor dew, splash and rain resistant; do not immerse in water
- Storage and operational temperature: -4° to 122°F (-20° to 50°C)
- Power supply: 9V (approx. 6 months under normal use)
- Weight: 1.6 lb. (.725 kg)
- Dimensions: 6.7" x 4.8" x 2.5" (17 cm x 12.2 cm x 6.4 cm)

SERVICEFIRST ITEM NO	DESCRIPTION
TOL02881	TOOL; 40801 R410A ADAPTER SET FOR 40805 DIGITAL REFRIGERATION ANALYZER
TOL02926	TOOL; DIGITAL ANALYZER ON TITAN, 40802
TOL02880	TOOL; 40805 DIGITAL REFRIGERATION ANALYZER COMPLETE
TOL02888	TOOL; 41067 DIGITAL TEMPERATURE PROBE
CLP01079	HOOK; 41068 DIGITAL REPLACEMENT HOOK
CAS01802	CASING; 41069 DIGITAL REPLACEMENT BOOT

### YELLOW JACKET® BANTAM replacement parts

Replacement parts for BANTAM manifolds.

SERVICEFIRST ITEM NO	DESCRIPTION
HDL00932	HANDLE; BANTAM REPLACEMENT, YELLOW
HDL00933	HANDLE; BANTAM REPLACEMENT, BLUE
PST00112	PISTON; REPLACEMENT PISTON FOR RITCHIE BANTAM MANIFOLD, W/O-RING
HDL00934	HANDLE; BANTAM REPLACEMENT, RED
NUT01067	NUT; BANTAM RETAINING NUT, 41057
SCR02100	SCREW; 2 SCREWS AND 2 WASHERS BANTAM HANDLE, RITCHIE 41058
FTG00970	FITTING; 1/4 INCH ANCHOR FITTING FOR BANTAM MANIFOLD
FTG01118	FITTING; 3/8" BANTAM ANCHOR FITTING
KIT09704	KIT; BANTAM SIGHT GLASS ASSEMBLY, INCLUDES GLASS, RING AND SEAL, 41061
SRN00842	SCREEN; PARTICULATE SCREEN 41063, FOR RITCHIE BANTAM MANIFOLD

Refrigerant Handling

YELLOW JACKET® TITAN™ Replacement Parts



Replacement parts for TITAN manifolds

SERVICEFIRST ITEM NO	DESCRIPTION
TOL01512	TOOL; HANGING HOOK FOR MANIFOLD
HDL01019	HANDLE; 41041 TITAN YELLOW HANDLE
HDL01010	HANDLE; TITAN BLUE HANDLE
SCR02117	SCREW; TITAN/BANTAM FEED SCREW, 41056
SCR01887	SCREW; FEED SCREW FOR MANIFOLD
NUT01014	NUT; RETAINING NUT FOR YELLOW JACKET MANIFOLD
KIT07495	KIT; Repair Kit for Ritchie Manifold, Includes screws and washers for valve handles(set of 2)
COV03690	COVER; SET OF 3 1/8" GAUGE BOOTS

YELLOW JACKET® BRUTE II™ Replacement Parts



Replacement parts for BRUTE II manifolds.

SERVICEFIRST ITEM NO	DESCRIPTION
TOL01512	TOOL; HANGING HOOK FOR MANIFOLD
HDL01012	HANDLE; BRUTE II YELLOW HANDLE
HDL01026	HANDLE; BRUTE II RED HANDLE
PST00107	PISTON; 3/8" PISTON FOR BRUTE MANIFOLD
SCR01991	SCREW; BRUTE MANIFOLD FEED SCREWS
KIT08015	KIT; BRUTE MANIFOLD OVERHAUL KIT, INCLUDES 4 PISTONS AND 4 SCREENS
COV03690	COVER; SET OF 3 1/8" GAUGE BOOTS

YELLOW JACKET® Manifold Parts Kits



Yellow heavy-duty molded, sectioned case to protect and secure manifold parts for Series 41, TITAN, and BRUTE II™ Manifolds

SERVICEFIRST ITEM NO	DESCRIPTION
KIT13668	KIT; 2005 MANIFOLD REPAIR KIT FOR SERIES 41, BRUTE II AND TITAN MANIFOLDS
HDL01010	HANDLE; TITAN BLUE HANDLE
SCR02117	SCREW; TITAN/BANTAM FEED SCREW, 41056
HDL01012	HANDLE; BRUTE II YELLOW HANDLE
HDL01026	HANDLE; BRUTE II RED HANDLE
SCR01887	SCREW; FEED SCREW FOR MANIFOLD
NUT01014	NUT; RETAINING NUT FOR YELLOW JACKET MANIFOLD
KIT07495	KIT; Repair Kit for Ritchie Manifold, Includes screws and washers for valve handles(set of 2)
PST00107	PISTON; 3/8" PISTON FOR BRUTE MANIFOLD
SCR01991	SCREW; BRUTE MANIFOLD FEED SCREWS
HDL01019	HANDLE; 41041 TITAN YELLOW HANDLE
RNG01692	RING; "O" rings for Ritchie Series 41 Manifold, 10-pack

YELLOW JACKET® Manifold Carrying Case



Blue heavy-duty blow molded case to protect manifold and tools. Long lasting hinge. Handle for easy carrying.

SERVICEFIRST ITEM NO	DESCRIPTION
CAS01207	CASE; BRUTE MANIFOLD CARRYING CASE, 13-1/2" X 10" X 4-5/8"
CAS00968	CASE; BRUTE MANIFOLD CARRYING, 15 1/2" X 12 1/2" X 5 1/2"

YELLOW JACKET® "O" Ring Lubricant



To lubricate "O" rings in manifolds when pistons or "O" rings are being replaced. Use sparingly.

SERVICEFIRST ITEM NO	DESCRIPTION
LUB00042	LUBRICANT; O-RING

# Tools and Test Equipment

## Refrigerant Handling

### YELLOW JACKET® Manifold Particulate Filter



These fittings trap the particles before they damage valve seats or pass into your recovery equipment. Replaceable, cleanable screens.

SERVICEFIRST ITEM NO	DESCRIPTION
FLR04535	FILTER; RITCHIE 1/4IN MANIFOLD PARTICULATE FILTER
FLR04536	FILTER; RITCHIE 3/8IN MANIFOLD PARTICULATE FILTER
FLR04537	FILTER; RITCHIE 1/2IN MANIFOLD PARTICULATE FILTER
SRN00831	SCREEN; RITCHIE MANIFOLD REPLACEMENT FILTER SCREEN, 5-PACK

### YELLOW JACKET® Liquid Charging Adapter



Liquid charging is recommended when charging blends into refrigeration and air conditioning systems. Since compressors cannot compress liquids you need a liquid charger adapter for safe and fast liquid (saturated vapor) charging through the low pressure side of a system. The YELLOW JACKET adapter connects to the cylinder valve or refrigerant can. To protect the compressor, adapter orifice reduces liquid flow to a level below compressor capacity. Refrigerant flashes off into a saturated vapor to speed entry. Eliminates the time and work of heating cylinders. Blue color-coded aluminum.

SERVICEFIRST ITEM NO	DESCRIPTION
ADP01099	ADAPTER; 1/4" LIQUID CHARGING, 41123
ADP01050	ADAPTER; 5/16 INCH LIQUID CHARGING ADAPTER
RNG01867	O-RING; RITCHIE 41132 REPLACEMENT O-RING FOR 1/4" ADAPTER

### YELLOW JACKET® Sight Glass



Use with YELLOW JACKET RecoverX and RecoverXL machines. Indicates when all liquid has been recovered so you can switch immediately to vapor cycle and speed-up the recovery process. 1/4" flare x 1/4" female flare.

SERVICEFIRST ITEM NO	DESCRIPTION
GLS00875	GLASS; RITCHIE SIGHT GLASS, 1/4IN FLARE X 1/4IN FEMALE FLARE

### YELLOW JACKET® Series 41 Replacement Parts



Replacement parts for Series 41 manifolds.

SERVICEFIRST ITEM NO	DESCRIPTION
KIT07497	KIT; Complete Handle Assembly for Ritchie Series 41 Manifold, Includes Piston w/seal, "O" rings, Feed Screw, Retaining Nut and Handle w/Screw and Washer
KIT07495	KIT;Repair Kit for Ritchie Manifold, Includes screws and washers for valve handles(set of 2)
SCR01887	SCREW; FEED SCREW FOR MANIFOLD
NUT01014	NUT; RETAINING NUT FOR YELLOW JACKET MANIFOLD
TOL01512	TOOL; HANGING HOOK FOR MANIFOLD
KIT07496	KIT; REPAIR KIT FOR RITCHIE SERIES 41 MANIFOLD, INCLUDES PISTONS W/ O RINGS AND SEAL
KIT07494	KIT;Repair Kit for Ritchie Series 41 Manifold, Includes Handle, screw and washer

Refrigerant Handling

YELLOW JACKET® Series 41 2-1/2" Gauges



Forged brass body with metal valve handles. Forged body is solid brass for durability. Full porting maximizes capacity. Metal valve handles are full size for easy operation. Hose anchors are forged into back of body at 45°.

- Pretested. Every manifold is individually tested for reliability before shipping
- Limited Lifetime Warranty on manifold bar and valves - not gauges. See manifold instructions for details
- Flutterless™ Technology. Surge protector and silicone dampened movement helps minimize needle pulsation for easier, more accurate readings
- Sliding double "O" ring pistons. Non-rotating design reduces wear. Only 1-1/2 turns give you full flow. Long-life nylon seat is also for vacuum and R-134a, R-404A, R-507, R-407C, R-410A, etc
- YELLOW JACKET Hoses. Most manifolds include color-coded YELLOW JACKET charging hoses
- Easy-to-read 2-1/2" steel case gauges (°F) with 3-2-3% accuracy

SERVICEFIRST ITEM NO	DESCRIPTION
MFD01000	MANIFOLD; SERIES 41 MANIFOLD W/3 HA STYLE HOSES, ALL 60IN YELLOW
MFD00912	MANIFOLD; W/GAUGES, R-12,22,502, NO HOSES
MFD00913	MANIFOLD, W/GAUGES, R-12,22,502, W/36" HA HOSES
MFD00914	MANIFOLD; W/GAUGES, R-12,22,502,W/60" HA HOSES
MFD00941	MANIFOLD; 2-VALVE, WITH STANDARD 72" RYB HOSES, R12,22,502
MFD00956	MANIFOLD; YELLOW JACKET SERIEW 41-45 MANIFOLD W/48IN PREMIUM RYB HOSES, R12, 22, 502
MFD01020	MANIFOLD, SERIES 41 MANIFOLD WITH BRASS GAUGES, R-12, 22, 502, NO HOSES
MFD00915	MANIFOLD; W/GAUGES, R-134A, 404A,507, NO HOSES
MFD00916	MANIFOLD; WITH GAUGES, R-134a,404A, 507, WITH 36 IN HA HOSES
MFD00917	MANIFOLD; W/GAUGES, R-134A, 404A,507, W/60" HA HOSES
MFD00930	MANIFOLD; R-410A W/THREE PLUS II HOSES W/FLEXFLOW FITTING
MFD00931	MANIFOLD; R-410A W/THREE PLUS II HOSES W/SEALRIGHT FITTING
MFD01156	MANIFOLD; SERIES 41, 60" RYB HOSES, RITCHIE 41711, R410A, ritchie 41711
MFD00918	MANIFOLD; W/GAUGES,R410A,NO HOSES
MFD01069	MANIFOLD; SERIES 41 60" RYB HOSES SPECIAL, R410A, 5/16", RITCHIE 41715
MFD00924	MANIFOLD; 2-VALVE W/RED & BLUE GAUGES, HOOK & ANCHOR IN CLAMSHELL PACKAGING, R-12,22,502
MFD01048	MANIFOLD; RITCHIE 42213, 41 SERIES, 2 VALVE W/ 36 INCH PLUS II HOSES WITH SEALRIGHT FITTINGS, R12, 502, 22
MFD00926	MANIFOLD; 2-VALVE W/BALL VALVE HOSES, HBVV-60
MFD01058	MANIFOLD; RITCHIE 42219 SERIES 41 MANIFOLD, R12, R502 AND R22, 72" RYB HOSES
MFD01065	MANIFOLD; SERIES 41 WITH PLUS II WITH COMPACT BALL VALVE, 60" RYB HOSES, RITCHIE 42315
MFD01055	MANIFOLD; RITCHIE 43213 MANIFOLD, 36 INCH PLUS II HOSES WITH STANDARD FITTINGS
MFD00947	MANIFOLD, SERIES 41-45 MANIFOLD W/36IN RYB PLUS II HOSES W/STANDARD FITTINGS AND CASE
MFD00959	MANIFOLD; YELLOW JACKET SERIES 41-45 MANIFOLD W/60IN PLUS II RYB HOSES WITH STANDARD FITTING, R12,22,502
MFD00972	MANIFOLD, SERIES 41-45 MANIFOLD, R12,22,502, W/72" RYB PLUS II HOSES WITH STANDARD FITTING
MFD00999	MANIFOLD; YELLOW JACKET SERIES 41 MANIFOLD, INCLUDES 48IN RYB PLUS II HOSES WITH STANDARD FITTINGS, R-12,22,502
MFD00942	MANIFOLD; 2-VALVE, WITH 60" PLUS II RYB HOSES, R134a,404A,507
MFD01019	MANIFOLD, SERIES 41 WITH RED AND BLUE GAUGES, R134a, 404A, 507, WITH 72" PLUS II RYB HOSES WITH STANDARD FITTINGS
MFD00949	MANIFOLD; SERIES 41-45 MANIFOLD, 36IN RYB PLUS II HOSES W/SEALRIGHT FITTING
MFD00948	MANIFOLD; SERIES 41-45 MANIFOLD W/60IN RYB PLUS II HOSES W/SEALRIGHT FITTING
MFD00961	MANIFOLD; YELLOW JACKET SERIES 41-45 MANIFOLD W/72IN PLUS II RYB HOSES WITH SEALRIGHT FITTING, R12,22,502
MFD00962	MANIFOLD; YELLOW JACKET SERIES 41-45 MANIFOLD W/48IN PLUS II RYB HOSES WITH SEALRIGHT FITTING, R12,22,502
MFD01045	MANIFOLD; RITCHIE 44315 SERIES 41 MANIFOLD, R-134A, 404A AND 507, 60" RYB HOSES
MFD00989	MANIFOLD; YELLOW JACKET SERIES 41 MANIFOLD W/72" RYB HOSES, R134A, 404A, 507
MFD00940	MANIFOLD; SERIES 41-45 W/3 60IN RYB PLUS II HOSES W/FLEXFLOW FITTING, R12,22,502
MFD00976	MANIFOLD, SERIES 4145 MANIFOLD WITH 72 IN RYB PLUS II HOSES W/FLEXFLOW FITTING
MFD01153	MANIFOLD; R407C, CELCIUS BAR, 41332
MFD01047	MANIFOLD; RITCHIE 41372 2-VALVE MANIFOLD WITH BRASS GAUGES, R-13A, 404A, 507

# Tools and Test Equipment

## Refrigerant Handling

### YELLOW JACKET® R-134a A/C Coupler



Economy - A basic R-134a service coupler with no control valve. Snaps on for instant flow. Professionals should use professionals couplers.

SERVICEFIRST ITEM NO	DESCRIPTION
GKT04051	GAKSET; O-RING REPLACEMENT FOR AUTOMOTIVE R-134A A/C COUPLERS, 6 PIECES, RITCHIE 41305
CPL00957	COUPLING; R134A HIGH SIDE A/C AUTO COUPLER WITH 1/4 IN. MF, RITCHIE NO. 41317
CPL00958	COUPLING; R134A LO SIDE A/C AUTO COUPLER WITH 1/4 IN MF, RITCHIE NO. 41318

### YELLOW JACKET® Automotive R-134a Manifolds



"Series 41" automotive manifold comes complete with R-134a gauges, environmental PLUS II hoses, and special R-134a A/C couplers with control valves. The hoses meet SAE J2196 and are UL 1963 recognized.

SERVICEFIRST ITEM NO	DESCRIPTION
MFD00974	MANIFOLD, AUTO ONLY R-134a MANIFOLD 2/60 IN HOSES
MFD00936	MANIFOLD; AUTO ONLY R-134A A/C, 60" HOSES, W/AUTO AIR COUPLERS
MFD00988	MANIFOLD; AUTO ONLY 134A MANIFOLD, 60" HOSES W/ACME FITTINGS AND 14MM FITTINGS, INCLUDES R134A COUPLERS AND CARRYING CASE
MFD00973	MANIFOLD; SERIES 41 MANIFOLD FOR R410A W/60IN PLUS II HOSES WITH FLEX FLOW FITTINGS
MFD00919	MANIFOLD; W/GAUGES, R410A, WITH 60 IN PLUS RYB HOSES WITH STD FTG
MFD00965	MANIFOLD, SERIES 41-45 MANIFOLD IN CLAMSHELL PACK, R134A, 404A, 507
MFD00925	MANIFOLD; 2-VALVE W/RED AND BLUE GAUGES, HOOK AND ANCHOR IN CLAMSHELL PACKAGING, R-410A
MFD00920	MANIFOLD; W/GAUGES, R-410A, W/60" HBW HOSES

### YELLOW JACKET® Series 41 3-1/8" Gauges



This field-proven manifold line has been expanded to include larger, easier to read color-coded gauges in rugged steel cases with polycarbonate crystals. Most importantly, these gauges feature 1% accuracy for an exact reading in critical charge systems.

- Wide choice of refrigerant combinations including:
  - R-22, R-134a, R-404A
  - R-12, R-22, R-134a
  - R-22, R-404A, R-410A
- Color-coded scales with bold, easy to read dials
- Dials with 1% accuracy (Class 1) for critical charge systems
- Proven sliding double "O" ring pistons reduce wear
- Long life nylon seats
- Forged brass body for durability
- Full porting maximizes capacity and flow
- Some models include color-coded, 60" PLUS II™ hoses with standard 1/4" flare fittings
- Hose assemblies UL recognized for 4000 psi (275 bar) burst and 800 psi (55 bar) working pressure. File# SA9737

SERVICEFIRST ITEM NO	DESCRIPTION
MFD01167	MANIFOLD; 41622, @C 80MM R22/404a/134a
MFD01049	MANIFOLD; CLAM, RITCHIE 42001, 2 VALVE, R410A/22 DEGREE F
MFD01050	MANIFOLD; RITCHIE 42004, 41 SERIES, 2 VALVE W/60 INCH PLUS II HOSES WITH STANDARD FITTINGS, R-22, 404A, 410A
MFD01064	MANIFOLD; SERIES 41 WITH 3-1/8" GAUGES, R-22/134A/404A, RITCHIE 42005
MFD01168	MANIFOLD; RITCHIE 42006, R22/134a/404A, WITH HOSE

### YELLOW JACKET® Series 41 Class 1 Brass Gauges



These manifolds have all the same features as the regular "Series 41" and an important upgrade - the gauges. Manifolds are also available with a variety of hoses. YELLOW JACKET® is the only U.S.-made manifold to incorporate all the following important features into a truly premium gauge.

- Upgraded movement with phosphor bronze plates, stainless gears and pinions. Dissimilar parts create less friction and last longer. Flutterless™ technology included.
- Movement calibrated at more points with tighter tolerances for full range Class 1 (1% accuracy)
- Polished solid brass case.

SERVICEFIRST ITEM NO	DESCRIPTION
MFD01154	MANIFOLD; SERIES 41 TWO VALVE DELUXE BRASS GAUGES, WITH 60" HOSE, PLUS II WITH COMPACT VALVE, RITCHIE 42235, R12, R22, R502
MFD01155	MANIFOLD; SERIES 41 TWO VALVE DELUXE BRASS GAUGES, WITH 60" HOSE, PLUS II WITH COMPACT VALVE, RITCHIE 42436, R134A, R404A, R507 ritchie 42436
MFD01027	MANIFOLD; YELLOWJACKET 43235 MANIFOLD W/60 INCH HOSES, R-12, 22, 502



Refrigerant Handling

YELLOW JACKET® BRUTE II™ Manifolds °F and °C



The new BRUTE II™ 4-Valve Test and Charging Manifold has been trimmed down for lighter weight but with the same powerful performance of the original model. This streamlined unit continues to provide the flow that's proven faster than any conventional manifold. And even though sleeker and more compact, the aluminum alloy is forged for strength and reliability with 3/8" bores through the body to speed the job.

- Fourth hose enables connection to high/low sides, refrigerant tank, and recovery unit or vacuum pump for diagnostics, evacuation and charging without switching hoses
- 1/4" high/low sides 3/8" vacuum port for regular jobs, or;
- 3/8" high/low sides with 1/2" vacuum port for larger systems
- Front access for easy field recalibration
- Proven, double "O" ring piston for reliability and long service life
- Exclusive 100-mesh filter in-line on all flare fittings helps keep out particulate material and extend the life of the seat
- Contoured easy-grip handles for positive control; color coded for ready identification
- Sight glass to easily view refrigerant movement and condition during charging and recovery
- Heavy-duty hook won't pull out
- Also available with YELLOW JACKET 3-1/8" (80mm) red and blue liquid-filled gauges

SERVICEFIRST ITEM NO	DESCRIPTION
MFD01106	MANIFOLD; RITCHIE 46000, BRUTE II 4-VALVE, WITHOUT HOSES
MFD01115	MANIFOLD; RITCHIE 46001 BRUTE II 4-VALVE, LIQUID GAUGE, MANIFOLD ONLY, FOR R-410A
MFD01116	MANIFOLD; RITCHIE 46003 BRUTE II 4-VALVE, RED/BLUE GAUGE, 60" PLUS II COMPACT BALL VALVE - RYB AND 3/8" X 45 DEGREE HOSES, FOR R-410A
MFD01117	MANIFOLD; RITCHIE 46010 BRUTE II 4-VALVE, RED/BLUE GAUGE, MANIFOLD ONLY, FOR R22, R404A, R410A
MFD01118	MANIFOLD; RITCHIE 46011 BRUTE II 4-VALVE, LIQUID GAUGE, MANIFOLD ONLY, FOR R22, R404A, R410A
MFD01119	MANIFOLD; RITCHIE 46013 BRUTE II 4-VALVE, RED/BLUE GAUGE, 60" PLUS II COMPACT BALL VALVE - RYB AND 3/8" X 45 DEGREE HOSES, FOR R22, R404A, R410A
MFD01099	MANIFOLD; BRUTE II 4-VALVE, R12/22/502, RITCHIE 46020
MFD01100	MANIFOLD; BRUTE II 4-VALVE, R12/22/502, LIQUID GAUGES, RITCHIE 46021
MFD01109	MANIFOLD; BRUTE II 4-VALVE, R12/22/502, 60 IN, PLUS II RYB & 3/8" X 45 DEGREE, RITCHIE 46022
MFD01101	MANIFOLD, BRUTE II 4-VALVE, R12/22/502 LF HAV-72" & 3/8" B45 DEGREE, RITCHIE 46026
MFD01145	MANIFOLD; RITCHIE 46030 BRUTE II 4-VALVE WITH 3/8" VACUUM PORT, RED/BLUE GAUGE MANIFOLD ONLY
MFD01112	MANIFOLD; RITCHIE 46031 BRUTE II 4-VALVE WITH 3/8" VACUUM PORT, LIQUID GAUGE, MANIFOLD ONLY
MFD01113	MANIFOLD; RITCHIE 46032 BRUTE II 4-VALVE WITH 3/8" VACUUM PORT, RED/BLUE 60" PLUS II RYB & 3/8" X 45 DEGREE
MFD01107	MANIFOLD; RITCHIE 46038 BRUTE II 4-VALVE WITH 3/8" VACUUM PORT, 72" PLUS II HOSE, RYB & 3/8" X 45 DEGREE
MFD01122	MANIFOLD; RITCHIE 46040 BRUTE II 4-VALVE, RED/BLUE GAUGE, MANIFOLD ONLY, R22, R134A, R404A
MFD01123	MANIFOLD; RITCHIE 46041 BRUTE II 4-VALVE, LIQUID GAUGE, MANIFOLD ONLY, R22, R134A, R404A
MFD01114	MANIFOLD; RITCHIE 46042 BRUTE II 4-VALVE, WITH 3/8" VACUUM PORT, RED/BLUE GAUGE, 60" PLUS II RYB AND 3/8" X 45 DEGREE
MFD01133	MANIFOLD; RITCHIE 46043 BRUTE II 4-VALVE, RED/BLUE GAUGE, 60" PLUS II COMPACT BALL VALVE, RYB AND 3/8" X 45 DEGREE HOSES, R22, R134A, R404A
MFD01134	MANIFOLD; RITCHIE 46048 BRUTE II 4-VALVE, LIQUID GAUGE, 72" PLUS II RYB AND 3/8" X 45 DEGREE HOSES, R22, R134A, R404A
MFD01120	MANIFOLD; RITCHIE 46080 BRUTE II 4-VALVE RED/BLUE GAUGE, MANIFOLD ONLY, R12, R22, R502
MFD01103	MANIFOLD; RITCHIE 46081, LIQUID GAUGE, 3/8" HI/LO CHARGE, 1/2" VAC PORT, WITHOUT HOSES
MFD01121	MANIFOLD; RITCHIE 46082 BRUTE II 4-VALVE, RED/BLUE GAUGE, 4 @ 3/8" X 60" HEAVY DUTY - STR X 45 DEGREE HOSES R12, R22, R502
MFD01102	MANIFOLD; BRUTE II 4-VALVE, R12/22/502 1/2 INCH VAC PORT, 3/8 INCH HI LO CHARGE, LIQUID GAUGE
MFD01135	MANIFOLD; RITCHIE 46090 BRUTE II 4-VALVE, RED/BLUE GAUGE, MANIFOLD ONLY, R22, R134A, R404A
MFD01136	MANIFOLD; RITCHIE 46091 BRUTE II 4-VALVE, LIQUID GAUGE, MANIFOLD ONLY, R22, R134A, R404A
MFD01137	MANIFOLD; RITCHIE 46092 BRUTE II 4-VALVE, RED/BLUE GAUGE, 4 @ 3/8" X 60" HEAVY DUTY - STR X 45 DEGREE, R22 HOSES, R134A, R404A
MFD01138	MANIFOLD; RITCHIE 46094 BRUTE II 4-VALVE, LIQUID GAUGE, 3 @ 3/8" X 60" HEAVY DUTY - STR X 45 DEGREE, 1 @ 1/2" X 60" HEAVY DUTY - STR X STR HOSES, R22, R134A, R404A
MFD01131	MANIFOLD; RITCHIE 46130, 4 VALVE BRUTE II, R134A, 404A, 407C, BAR/MPA, 3 1/8" METAL GAUGE 1% ACCURACY TYPE, CELCIUS

# Tools and Test Equipment

## Refrigerant Handling

### YELLOW JACKET® BRUTE Replacement Parts

Replacement parts for BRUTE manifolds.

SERVICEFIRST ITEM NO	DESCRIPTION
GLS00861	GLASS; POLYCARBONATE CRYSTAL FOR RITCHIE GAUGE
HDL00872	HANDLE; YELLOW HANDLE FOR BRUTE MANIFOLD
HDL00873	HANDLE; BLUE HANDLE FOR BRUTE MANIFOLD
HDL00874	HANDLE; RED HANDLE FOR BRUTE MANIFOLD
NUT00995	NUT; RETAINING NUT FOR BRUTE MANIFOLD
GLS00851	GLASS, SIGHT- GLASS FOR BRUTE MANIFOLD
RNG01710	RING, O-RING FOR BRUTE MANIFOLD SIGHT-GLASS
SCR01990	SCREW; BRUTE MANIFOLD HANDLE SCREWS, PAIR
FTG00953	FITTING; Y FITTING FOR BRUTE MANIFOLD FOR 1/4" FLARE CONNECTION

### YELLOW JACKET® 2-1/2" Steel Case Gauges °F and °C



All YELLOW JACKET gauges feature bold high-visibility dials with color coded temperature scales for easy reading.

- Flutterless™ technology with surge protector minimizes the needle pulsation for improved accuracy
- Compound gauges feature over-pressure protection to 350 pounds
- 1/8" NPT Male lower mount fitting
- Steel cases
- Class B (3-2-3% accuracy)
- Calibration traceable to NIST standards

SERVICEFIRST ITEM NO	DESCRIPTION
GAG00878	GAUGE; RED PRESSURE, 0-500 PSI, R-12,22,502
GAG00879	GAUGE; BLUE COMPOUND, 30"-0-120 PSI, R-12,22,502
GAG00913	GAUGE; 2-1/2IN RED PRESSURE GAUGE, METRIC, BAR AND PSI SCALE, R12, 22 & 502
GAG00914	GAUGE; 2-1/2IN BLUE COMPOUND GAUGE, METRIC, BAR AND PSI SCALE, R12, 22 & 502
GAG00943	GAUGE, SET OF RED AND BLUE GAUGES FROM RITCHIE, R-12, 22, 502
GLS00848	GLASS; REPLACEMENT CRYSTAL FOR RITCHIE MANIFOLD GAUGES
GAG01084	GAUGE; 2-1/2 RED R404A/134A/22, 49015
GAG01087	GAUGE; 2-1/2 BLUE R404A/134A/22, 49016
GAG00882	GAUGE; RED PRESS., 0-800 PSI, R-410A
GAG00883	GAUGE; BLUE COMPOUND, 30" -0-300 PSI, R-410A
GAG00880	GAUGE; RED PRESS., 0-500 PSI, R-134A,404A,507
GAG00881	GAUGE; BLUE COMPOUND, 30 IN-0-120 PSI, R-134a,404A,507
GAG00984	GAUGE; RED PRESSURE, 2-1/2", BAR AND PSI, R-134A, 49055
GAG00985	GAUGE; BLUE PRESSURE, 2-1/2", BAR AND PSI, R-134A, 49056
GAG00887	GAUGE; BLUE COMPOUND, 30"-0-120 PSI, R-12,22,502
COV03172	COVER; RED AND BLUE GAUGE BOOTS, INCLUDES 49091 AND 49092 PROTECTIVE BOOTS
COV03161	COVER; PROTECTIVE BOOT/COVER FOR RED GAUGE ON BRUTE MANIFOLD
COV03162	COVER; PROTECTIVE BOOT/COVER FOR BLUE GAUGE ON BRUTE MANIFOLD

### YELLOW JACKET® 2 1/2" Brass Gauges °F



Solid brass case and premium movements. Heavy duty phosphor bronze and stainless steel internal components for longer service life under severe use.

- 1% accuracy (Class 1) calibration
- Flutterless™ technology with brass surge protector to minimize needle pulsation
- 1/8" NPT Male connection
- Calibrated to 1% accuracy at the plant
- Calibration traceable to NIST standards

SERVICEFIRST ITEM NO	DESCRIPTION
GAG01025	GAGE; BRASS PRESSURE GAGE, RITCHIE 49047
GAG01026	GAGE; BRASS COMPOUND GAGE, RITCHIE 49048
GAG01048	GAUGE; RITCHIE 49049 SET BRASS INCLUDES 49047 & 49048
GAG01049	GAUGE; RITCHIE 49067 BRASS PRESSURE GAUGE/RING 134A
GAG01050	GAUGE; RITCHIE 49068 BRASS COMPOUND GAUGE/RING 134A

**Refrigerant Handling**

**YELLOW JACKET® Liquid Filled Gauges °F and °C**



Glycerine filled gauges are larger 3-1/8" diameter for easy reading with refrigerants color coded on dials. Liquid filled gauges dampen pulsation. Gauges calibrated to 3-2-3 (Class B) accuracy. Back recalibrator screw, 1/8" NPT Male connection.

SERVICEFIRST ITEM NO	DESCRIPTION
GAG00905	GAUGE, RED PRESSURE GAUGE, LIQUID FILLED, 0-500PSI, R134A,507,404A
GAG00906	GAUGE, BLUE PRESSURE GAUGE, LIQUID FILLED, 30"-0-120PSI, R134A,507,404A
GAG00886	GAUGE; RED LIQUID FILLED, 0-500 PSI, R-12,22,502
GAG00980	GAUGE; RITCHIE 49177 3-1/8 INCH LIQUID FILLED RED PRESSURE GAUGE, R-410A
GAG00981	GAUGE; RITCHIE 49178 3-1/8 INCH LIQUID FILLED BLUE COMPOUND GAUGE, R-410A
GAG01071	GAUGE; 49179, 3-1/8 LIQUID RED
GAG01072	GAUGE; 49180, 3-1/8 COMPOUND BLUE

**YELLOW JACKET® 3-1/8" Gauges °F and °C**



For reliable performance and durability, these 3-1/8" gauges are housed in a red or blue steel case with front recalibrator screw. High visibility colored temperature scales are easy to read through the full view polycarbonate crystal.

- Flutterless™ technology with brass surge protector (to minimize needle pulsation), brass gauge movement and copper alloy bourbon tube combine for improved accuracy
- 1/8" NPT Male connection
- Calibrated to 1% accuracy at the plant

SERVICEFIRST ITEM NO	DESCRIPTION
LNS00847	LENS; REPLACEMENT CRYSTAL FOR MANIFOLD GAUGES
GAG00945	GAUGE, 3-1/8" RED PRESSURE GAUGE, 0 TO 500 PSI, R-12,22,502
GAG00946	GAUGE, 3-1/8" BLUE COMPOUND GAUGE, 30"-0-120 PSI, R-12,22,502
GAG01074	GAUGE; 49103, 3-1/8", 80 MM RED, R134A
GAG01075	GAUGE; 49104, 3-1/8", 80 MM BLUE, R134A
GAG00935	GAUGE; 3-1/8" RED PRESSURE GAUGE, 0-800 PSI, R
GAG01027	GAUGE; 3-1/8" BLUE COMPOUND GAUGE, 30"-0-300 PSI, R-410A, RITCHIE 49136
GAG00978	GAUGE; RITCHIE 49137 3-1/8 INCH RED PRESSURE GAUGE, R-22, 404A, 410A
GAG00979	GAUGE; RITCHIE 49138 3-1/8 INCH BLUE COMPOUND GAUGE, R-22, 404A, 410A
GAG00976	GAUGE; RITCHIE 49151 3-1/8 INCH RED PRESSURE GAUGE, R-134a, 404A, 407C
GAG00977	GAUGE; RITCHIE 49152 3-1/8 INCH BLUE COMPOUND GAUGE, R-134a, 404A, 407C
GAG01053	GAUGE; 1/8" RED REPLACEMENT GAUGE FOR RITCHIE MANIFOLD R134A/407C
GAG01054	GAUGE; 1/8" BLUE REPLACEMENT GAUGE FOR RITCHIE MANIFOLD R134A/407C
COV03690	COVER; SET OF 3 1/8" GAUGE BOOTS

# Tools and Test Equipment

## Refrigerant Handling

### YELLOW JACKET® 1 1/2" - 3 1/2" General Use Gauges °F

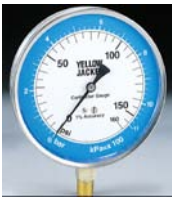


General use gauges for multiple applications where pressure or vacuum gauges are required. Brass internals are suitable for air, gas, water and oil plus many more industry applications.

- No restrictor
- Recalibration feature is standard on 2-1/2" and 3-1/2" gauges
- Steel cases painted black with glass crystal and metal ring
- Gauge accuracy is 3-2-3%

SERVICEFIRST ITEM NO	DESCRIPTION
GAG00908	GAUGE, 1 1/2 IN DIAL, 1/8 IN NPT CONN., 0-30 PSI
GAG00909	GAUGE; 1 1/2 IN DIAL, 1/8 IN NPT CONN., 0-60 PSI
GAG01055	GAUGE; RITCHIE 49364, 2" DIAL 1/4" NPT LOWER CONNECTION, 0-100 PSI, 0-7 BAR
GAG00932	GAUGE; 2" YELLOW JACKET GAUGE, 1/4" NPT, 0-160 PSI
GAG00932	GAUGE; 2" YELLOW JACKET GAUGE, 1/4" NPT, 0-160 PSI
GAG00917	GAUGE, GENERAL USAGE GAUGE, 2-1/2" DIAL, 1/4" NPT LOWER CONNECTION, 0-15 PSI
GAG00918	GAUGE, GENERAL USAGE GAUGE, 2-1/2" DIAL, 1/4" NPT LOWER CONNECTION, 0-30 PSI
GAG00910	GAUGE; 2 1/2 IN DIAL, 1/4 IN NPT CONN., 0-60 PSI
GAG00919	GAUGE, GENERAL USAGE GAUGE, 2-1/2" DIAL, 1/4" NPT LOWER CONNECTION, 0-100 PSI
GAG00911	GAUGE; 2 1/2 IN DIAL, 1/4 IN NPT CONN., 0-160 PSI
GAG00912	GAUGE; 2 1/2 IN DIAL, 1/4 IN NPT CONN., 0-200 PSI
GAG00920	GAUGE, GENERAL USAGE GAUGE, 2-1/2" DIAL, 1/4" NPT LOWER CONNECTION, 0-300 PSI
GAG00921	GAUGE, GENERAL USAGE GAUGE, 2-1/2" DIAL, 1/4" NPT LOWER CONNECTION, 0-30" HG VAC
GAG00922	GAUGE, GENERAL USAGE GAUGE, 2-1/2" DIAL, 1/4" NPT LOWER CONNECTION, 30"-0-30 PSI
GAG00923	GAUGE, GENERAL USAGE GAUGE, 2-1/2" DIAL, 1/4" NPT LOWER CONNECTION, 30"-0-60 PSI
GAG00924	GAUGE, GENERAL USAGE GAUGE, 2-1/2" DIAL, 1/4" NPT LOWER CONNECTION, 30"-0-100 PSI
GAG00925	GAUGE, GENERAL USAGE GAUGE, 2-1/2" DIAL, 1/4" NPT LOWER CONNECTION, 30"-0-150 PSI
GAG00926	GAUGE, 3-1/2" DIAL, 1/4" NPT LOWER CONNECTION, 0-60 PSI
GAG00927	GAUGE; 3-1/2" DIAL, 1/4" NPT LOWER CONNECTION, 0-100 PSI

### YELLOW JACKET® Stainless 4 1/2" Contractor Gauge °F



Stainless steel case. Brass movement and 1/4" NPT Male socket bottom mount. Gauge has recalibrator screw. A surge protector to help dampen needle pulsation. 1% accuracy (Class 1) calibration full scale. Can be used for oil pressure.

SERVICEFIRST ITEM NO	DESCRIPTION
GAG01077	GAUGE; 49444 STAINLESS CONTRACTOR 4-1/2", 100# 1/4" LM
GAG00890	GAUGE; 4 1/2 ", SS CASE, 0-30" HG VAC,(0 TO -1 BAR), 1/4 " NPT CONNECTION

Refrigerant Handling

YELLOW JACKET® TITAN™ 2-Valve Manifolds



Forged aluminum alloy body and large easy-to-read gauges. The new TITAN™ Test and Charging Manifold is the first forged aluminum manifold in the industry. The special aluminum alloy construction of the manifold body makes this unit lightweight for handling ease with the durability and reliability required for repeated, rugged use.

- Large, easy-to-read 3-1/8" (80 mm) steel case red and blue, 1% accuracy (Class 1) gauges; front access for easy field recalibration; optional protective gauge boots available
- Proven, double "O" ring piston for reliability and long service life
- Exclusive 100 mesh filter in-line on all flare fittings helps keep out particulate material and extend the life of the seats
- Contoured easy-grip handles for positive control; color coded for ready identification
- Sight glass to easily view refrigerant movement and condition during charging and recovery
- Heavy duty hook won't pull out

SERVICEFIRST ITEM NO	DESCRIPTION
MFD01080	MANIFOLD; TITAN 2-VALVE, R12/22/502 HAVS-60", RITCHIE 49801
MFD01087	MANIFOLD; TITAN 2-VALVE, 412/22/502, RITCHIE 49802
MFD01079	MANIFOLD; TITAN 2-VALVE, R12/22/502 HAV-60", RITCHIE 49805
MFD01083	MANIFOLD; TITAN 2-VALVE, R134A/404A/407C HAVS-60", RITCHIE 49831
MFD01081	MANIFOLD; TITAN 2-VALVE, R134A/404A/407C, RITCHIE 49832
MFD01082	MANIFOLD; TITAN 2-VALVE, R134A/404A/407C HAV-60", RITCHIE 49835
MFD01132	MANIFOLD; RITCHIE 49836, 2 VALVE TITAN, BAR/MPA, 3 1/8" METAL GAUGE, 1% ACCURACY TYPE, R134A, 404A, 407, CELCIUS
MFD01146	MANIFOLD; TITAN 2-VALVE, R134A, 72", 49847
MFD01147	MANIFOLD; TITAN 2-VALVE, R134A, 120", 49848
MFD01084	MANIFOLD; TITAN 2-VALVE, R410, RITCHIE 49862
MFD01124	MANIFOLD; RITCHIE 49863 TITAN, 2-VALVE W/SIGHT GLASS, RED/BLUE GAUGE, NO HOSE, R22, R404A, R410A
MFD01125	MANIFOLD; RITCHIE 49867 TITAN 2-VALVE W/SIGHT GLASS, RED/BLUE GAUGE, 60" PLUS II RYB HOSE, R22, R404A, R410A
MFD01104	MANIFOLD; TITAN 2-VALVE W/SIGHT GLASS, RITCHE 49868, 60" PLUS II COMPACT BALL VALVE - RYB
MFD01126	MANIFOLD; RITCHIE 49883 TITAN 2-VALVE W/SIGHT GLASS, RED/BLUE GAUGE, NO HOSE, R22, R134A, R404A
MFD01127	MANIFOLD; RITCHIE 49887 TITAN 2-VALVE W/SIGHT GLASS, RED/BLUE GAUGE, 60" PLUS II RYB HOSE, R22, R134A, R404A
MFD01128	MANIFOLD; RITCHIE 49889 TITAN 2-VALVE W/SIGHT GLASS, RED/BLUE GAUGE, 60" PLUS II SEALRIGHT RYB HOSE, R22, R134A, R404A

# Tools and Test Equipment

## Refrigerant Handling

### YELLOW JACKET® TITAN™ 4-Valve Manifolds



Forged aluminum alloy body for increased strength and reliability. The new TITAN Test and Charging Manifold is the first forged aluminum manifold in the industry.

Special aluminum alloy body makes this unit lightweight for handling ease with the durability and reliability required for repeated, rugged use.

- Large, easy-to-read 3-1/8" (80 mm) steel case red and blue, 1% accuracy (Class 1) gauges; front access for easy field recalibration; optional protective gauge boots available
- Proven, double "O" ring piston for reliability and long service life
- Exclusive 100 mesh filter in-line on all flare fittings helps keep out particulate material and extend the life of the seats
- Sight glass to easily view refrigerant movement and condition during charging and recovery
- Heavy duty hook won't pull out

#### 4-Valve Features/Benefits

- Fourth hose to enable connection to high/low sides, refrigerant tank, and recovery unit or vacuum pump for diagnostics, evacuation and charging without switching hoses
- 3/8" vacuum port for use with larger hose to cut evacuation time by up to 33 percent (all other fittings on unit are 1/4")
- Also available with YELLOW JACKET® 3-1/8" (80 mm) red and blue liquid-filled gauges

SERVICEFIRST ITEM NO	DESCRIPTION
MFD01092	MANIFOLD; TITAN, 4-VALVE, 412/22/502, RITCHIE 49902
MFD01159	MANIFOLD; TITAN 49905, 4-VALVE, R12, R22
MFD01094	MANIFOLD; TITAN, 4-VALVE, R12/22/502, LIQUID GAUGES, RITCHIE 49922
MFD01095	MANIFOLD; TITAN, 4-VALVE, 412/22/502 LF HAV-60", RITCHIE 49925
MFD01096	MANIFOLD; TITAN, 4-VALVE, 4134A/404A/407C, RITCHIE 49932
MFD01097	MANIFOLD; TITAN, 4-VALVE, R134A/404A/407C HAV-60", RITCHIE 49935
MFD01111	MANIFOLD; TITAN 2-VALVE, R134A/404A/407C NO HOSE, RITCHIE 49952
MFD01098	MANIFOLD; TITAN, R134A/404A/407C LF HAV-60", RITCHIE 49955
MFD01090	MANIFOLD, TITAN, 4-VALVE, R410A, HBVV-60", RITCHIE 49960
MFD01088	MANIFOLD; TITAN, 4-VALVE, R410A, RITCHIE 49962
MFD01105	MANIFOLD; TITAN, 4-VALVE, R410A, WITHOUT HOUSES, RITCHIE 49963
MFD01091	MANIFOLD; TITAN, 4-VALVE, R410A, HAV-60", RITCHIE 49965
MFD01129	MANIFOLD; RITCHIE 49967 TITAN 4-VALVE W/SIGHT GLASS, RED/BLUE GAUGE, 60" PLUS II RYB HOSE, R22, R404A, R410A
MFD01130	MANIFOLD; RITCHIE 49968 TITAN 4-VALVE W/SIGHT GLASS, RED/BLUE GAUGE, 60" PLUS II COMPACT BALL VALVE RYB AND 3/8" X 45 DEGREE HOSE, R22, R404A, R410A
MFD01139	MANIFOLD; RITCHIE 49973 TITAN 4-VALVE, LIQUID GAUGE, NO HOSE, R22, R404A, R410A
MFD01140	MANIFOLD; RITCHIE 49977 TITAN 4-VALVE, LIQUID GAUGE, 60" PLUS II RYB HOSE, R22, R404A, R410A
MFD01089	MANIFOLD, TITAN, 4-VALVE, R410A, LIQUID GAUGES, RITCHIE 49982
MFD01141	MANIFOLD; RITCHIE 49983 TITAN 4-VALVE, RED/BLUE GAUGE, NO HOSE, R22, R134A, R404A
MFD01142	MANIFOLD; RITCHIE 49987 TITAN 4-VALVE, RED/BLUE GAUGE, 60" PLUS II RYB HOSE, R22, R134A, R404A
MFD01143	MANIFOLD; RITCHIE 49993 TITAN 4-VALVE, LIQUID GAUGE, NO HOSE, R22, R134A, R404A
MFD01144	MANIFOLD; RITCHIE 49997 TITAN 4-VALVE, LIQUID GAUGE, 60" PLUS II RYB HOSE, R22, R134A, R404A

### YELLOW JACKET® Mini-Saw



Specially designed for cutting small or large objects in tight areas. Not meant for hardened steel.

SERVICEFIRST ITEM NO	DESCRIPTION
TOL01449	TOOL; MINI SAW
TOL01443	TOOL; REPLACEMENT BLADES FOR 60071 MINI-SAW, 10/PAK

Refrigerant Handling

YELLOW JACKET® Premium Tube Cutters



Enclosed precision feed mechanism for easy, smooth cutting. Resists jams.

Other features include:

- Wide rollers with flare cut-off groove. Ground surface for easy rolling
- Wheel recessed into cutter body
- Made from high quality alloy steel, YELLOW JACKET wheels are thinner than those made from carbon steel or lower quality steel. This means a sharper cutting wheel edge for less burr on copper, aluminum and mild steel tubing. Does not "bottom out." Pinned rather than screwed in position
- Spare 60100 wheel attached
- Corrosion-resistant finish on lightweight aluminum frame
- Retractable reamer
- Flare cut-off groove

SERVICEFIRST ITEM NO	DESCRIPTION
TOL01402	TOOL; PREM. TUBE CUTTER, 1/8" TO 1 1/8"
TOL01418	TOOL; DISPLAY PACK OT 60102 LARGE TUBE CUTTER, 6/PK
SCR01927	SCREW; REAMER SCREW AND WASHER FOR RITCHIE CUTTERS 60101, 60102 AND 60103
TOL01513	TOOL; NEW STYLE REAMER FOR RITCHIE 60101, 60102 AND 60103 TUBE CUTTERS
CLP00949	CLIP; CLIP AND PIN FOR WHEEL FOR RITCHIE CUTTERS 60101, 60102 AND 60103
KIT07477	KIT; CUTTING WHEEL, PIN AND CLIP REPAIR KIT FOR 60101, 60102 AND 60103 TUBE CUTTERS
WHL02212	WHEEL; REPLACEMENT CUTTER WHEEL FOR STAINLESS FOR RITCHIE 60101, 60102 AND 60103 CUTTERS
WHL02172	WHEEL; CUTTER FOR 60101, 60102, 60103, 60160 TUBE CUTTERS
TOL01444	TOOL; LARGE TUBE CUTTER, 1/4" THRU 1 5/8" O.D.
TOL01432	TOOL; Tube Constrictor/Cutter, 1/4" - 1 1/8" O.D.
WHL02211	WHEEL; REPLACEMENT CUTTER WHEEL FOR RITCHIE 60101, 60102 AND 60103 CUTTERS
WHL02231	WHEEL; CUTTER WHEELS FOR RITCHIE 60101, 60102, 60103 TUBE CUTTERS
SCR01926	SCREW; FOR KNOB ON RITCHIE CUTTERS 60101, 60102 AND 60103

YELLOW JACKET® Heavy Duty Mini-Cutters



Mini-cutter for heavy duty cutting from 1/8" to 7/8" O.D. Wide body for easy grip. Large rollers and flare cut-off groove.

Small-Mini

Smallest version of the heavy duty model cuts 1/8" to 5/8" with a turning radius of only 13/16".

Big-Mini

A larger version with a heavy duty cast body cuts from 1/4" to 1-1/8" O.D. and is still compact. Field proven.

SERVICEFIRST ITEM NO	DESCRIPTION
WHL02165	WHEEL;Cutter Wheels for 60121 and 60142 Tube Cutters
TOL01400	TOOL; MINI TUBE CUTTER, 1/8" TO 7/8"
TOL01401	TOOL; BIG MINI TUBE CUTTER, 1/4" TO 1 1/8"
TOL01403	TOOL; SMALL MINI TUBE CUTTER, 1/8" TO 5/8"
WHL02226	WHEEL; REPLACEMENT CUTTER WHEELS FOR RITCHIE 60121 AND 60142 TUBE CUTTERS
SCR01930	SCREW; REPLACEMENT SCREW FOR RITCHIE 60121 AND 60123 TUBE CUTTERS
CLP00950	CLIP; CLIP AND PIN FOR WHEEL FOR RITCHIE CUTTER 60142
WHL02226	WHEEL; REPLACEMENT CUTTER WHEELS FOR RITCHIE 60121 AND 60142 TUBE CUTTERS
SCR01885	SCREW; Cutter Wheel Screw for Imperial TC1050, 127-FB, 227-FA
SCR01886	SCREW; Cutter Wheel Screw for Imperial TC1000, 274-FC, 174-F, TC1020, 374-FC, TC2050, 312-FC
WHL02178	WHEEL;Cutter Wheel for Imperial 174F, 274F, 312-FB, 374-FC, TC1000, TC1020, TC2050
WHL02179	WHEEL; Cutter Wheel for Imperial 174F, 274F, 312-FB, 374-FC, TC1000, TC1020, TC2050
WHL02210	WHEEL; REPLACEMENT WHEEL FOR STAINLESS IMPERIAL 75046
WHL02180	WHEEL; Cutter Wheel for Imperial 127-FB, 227-FA, TC1050 and Yellow Jacket 60122 and 60160 Cutters
KIT07560	KIT; TUBE CUTTER PARTS KIT

YELLOW JACKET® Tight Spot™ Flare Cut-Off Tool



Designed specifically for tight situations where only flare must be removed, this cutter makes clean right angle cuts on 1/4", 5/26" and 3/8" O.D. copper tubing. Interchangeable arbors for the three sizes included.

SERVICEFIRST ITEM NO	DESCRIPTION
TOL01662	TOOL; TIGHT SPOT FLARE CUT-OFF TOOL WITH ARBORS

# Tools and Test Equipment

## Refrigerant Handling

### YELLOW JACKET® Service Counter Cutter Parts Kit



Service Counter Cutter Part Kit 60130

SERVICEFIRST ITEM NO	DESCRIPTION
KIT07559	KIT; YELLOW JACKET AND IMPERIAL TUBE CUTTER REPLACEMENT PARTS KIT

### YELLOW JACKET® Large Tube Cutters



Improved spring loaded instant slide action feed is now simpler and stronger with heat treated components. The new stronger "I beam" design uses both strength and light weight. Wider body has longer rollers to hold tubing better and includes a flare cut off groove. Contoured handle for better gripping also holds spare cutter wheel. Separate deburr tool slides into cutter body.

SERVICEFIRST ITEM NO	DESCRIPTION
TOL01404	TOOL; TUBE CUTTER, 3/8" TO 2 5/8"
TOL01452	TOOL; LARGE TUBE CUTTER, 2IN TO 5-1/8IN
WHL02225	WHEEL; REPLACEMENT CUTTER WHEELS FOR RITCHIE 60123 AND 60139 TUBE CUTTERS
WHL02173	WHEEL; CUTTER FOR 60123 TUBE CUTTER
SCR01930	SCREW; REPLACEMENT SCREW FOR RITCHIE 60121 AND 60123 TUBE CUTTERS
WHL02227	WHEEL; REPLACEMENT CUTTER WHEEL FOR RITCHIE 60146 TUBE CUTTER

### YELLOW JACKET® PVC and Polyethylene Pipe Cutter



Easy ratchet action and unique hooked tube-gripping jaws give an easy and clean cut. Other features: heat-treated steel alloy blade for long life, easily replaceable, and completely field repairable

SERVICEFIRST ITEM NO	DESCRIPTION
TOL02614	TOOL; 1-1/4" PVC PIPE CUTTER
TOL01809	TOOL; SPARE CUTTING BLADE FOR 60151 PVC PIPE CUTTER

### YELLOW JACKET® Tube Reamer/Burr Remover



Steel blades remove inner and outer burrs

SERVICEFIRST ITEM NO	DESCRIPTION
TOL01433	TOOL; Tube Reamer, Up to 1 3/8"

### YELLOW JACKET® Tube Deburring Tool



For fast deburring, rotate blade.

SERVICEFIRST ITEM NO	DESCRIPTION
TOL01462	TOOL; DEBURRING
TOL01434	TOOL; Replacement Blade for Deburring Tool

### YELLOW JACKET® Capillary Cutter



Cleanly cut capillary tubing without flattening or constricting tubing.

SERVICEFIRST ITEM NO	DESCRIPTION
TOL01807	TOOL; CAPILLARY CUTTER



Refrigerant Handling

YELLOW JACKET® Premium Double and Single Flare 45° Tool



One-piece tool single flares six sizes of copper, brass, aluminum and most mild steel tubing. Forms flare above clamping block without thinning flare. Deeper grooves in bar for improved gripping power.

- Hardened steel block and steel handles and body for durability
- Automatic flare cone centering for consistent flare precision

60202 also features a swing away yoke so tool can also double flare 3/16" to 1/2" tubing when used with 60203 double flare bar (order separately).

SERVICEFIRST ITEM NO	DESCRIPTION
TOL01527	TOOL; YELLOW JACKET PREMIUM SINGLE FLARE TOOL -45DEG
TOL01528	TOOL; YELLOW JACKET PREMIUM DOUBLE FLARE TOOL -45DEG
TOL01529	TOOL; DOUBLE FLARE BAR FOR RITCHIE 60203

YELLOW JACKET® Heavy Duty 45° Flaring Tools



This heavy duty tool, designed for tight places, has numerous features.

- Hardened steel flaring bar to resist tube slippage
- Forged steel yoke that slips over bar and locks with a turn
- Precision threaded feed screw and long handle to insure smooth and easy operation

SERVICEFIRST ITEM NO	DESCRIPTION
TOL01406	TOOL; HEAVY DUTY 45 DEG. FLARING, 3/16" TO 3/4"
TOL01475	TOOL; FLARING BAR ONLY, 3/16, 1/4, 5/16, 3/8, 7/16, 1/2, 5/8 O.D.
TOL02119	TOOL; RITCHIE 60230 FLARING TOOL, 1/2 INCH TO 3/4 INCH
TOL02036	TOOL; FLARING BAR, 1/2, 5/8, 3/4 OD

YELLOW JACKET® 45° double flaring kit



Double flare Bundy and similar tubing to 0.035" wall thickness. Double flare 3/16" to 1/2" O.D. Copper and aluminum tubing.

SERVICEFIRST ITEM NO	DESCRIPTION
TOL01941	TOOL; 45 DEGREE DOUBLE FLARE ADAPTER KIT, 3/16 INCH TO 1/2 INCH
TOL01464	TOOL; DOUBLE FLARE KIT WITH ADAPTERS

YELLOW JACKET® Flaring/Cutting Kits



A wide variety of heavy duty tool kits for flaring 1/8" to 3/4" O.D

SERVICEFIRST ITEM NO	DESCRIPTION
TOL01463	TOOL; FULL RANGE FLARING KIT FOR 1/8-3/4IN OD, W/PLASTIC CASE
TOL01447	TOOL; FULL RANGE FLARING/CUTTING KIT

YELLOW JACKET® Flare/Burnish Tool



Multi-faceted cone rolls a precise flare and simultaneously polishes it on brass, copper and aluminum.

SERVICEFIRST ITEM NO	DESCRIPTION
TOL01519	TOOL, FLARE/BURNISH TOOL, 3/16 TO 5/8 OD

YELLOW JACKET® Universal 45° Flare/Burnish Tool



Universal designed bar will hold all inch and metric size tubing up to 5/8". Flare bar is more compact and easier to use in tight quarters. Multi-faceted cone rolls out precise 45° flare and polishes it at the same time. Flare is formed above flare bar.

SERVICEFIRST ITEM NO	DESCRIPTION
TOL01520	TOOL, FLARE/BURNISH TOOL, 3/16 TO 5/8 OD

# Tools and Test Equipment

## Refrigerant Handling

### YELLOW JACKET® Deluxe 45° Flaring Tool



The only full range 1/8" to 3/4" O.D. flaring tool available for copper, brass and aluminum tubing.

- Self-centering yoke for precise 45° flare grips without marring or constricting tube
- Automatic tube height gauge for correct tubing height
- Multi-faceted burnishing cone to roll out smooth, polished flare seat for positive seal
- Easy-to-use

SERVICEFIRST ITEM NO	DESCRIPTION
TOL01405	TOOL; DELUXE FULL RANGE, FLARING, 1/8" TO 3/4"

### YELLOW JACKET® Large Size 45° Flaring Tool



Tool designed to flare on the larger size tubing - up to 1-1/8". Flaring bars are hardened and grip tubing securely. Yoke slips over flaring bar and locks in place. Long handle and precision threaded feed screw ensure easy flaring.

SERVICEFIRST ITEM NO	DESCRIPTION
TOL01476	TOOL; LARGE FLARING TOOL, 3/4, 7/8, 1, 1-1/8 OD
TOL01477	TOOL; LARGE FLARING TOOL, 3/4, 7/8, 1, 1-1/8 OD, FLARING BAR ONLY
TOL02452	TOOL; FLARING YOKE FOR 60290 FLARING TOOL

### YELLOW JACKET® Eccentric Cone Flaring Tool



Off-center hardened steel cone produces a rolling action for uniform flare walls without galling in 3/16" to 3/4" O.D. tubing. Large feed screw handle turns with little effort for smooth operation.

- Black oxide-finished steel flaring bars are heat-treated for durability and secure grip on tubing
- Recommended for soft materials such as copper and aluminum
- Recommended by some mini-split manufacturers for R-410A flare

SERVICEFIRST ITEM NO	DESCRIPTION
TOL02120	TOOL; RITCHIE 60295 ECCENTRIC CONE FLARE TOOL

### YELLOW JACKET® Ratchet Hand Bender



The original one hand bending tool for soft copper, aluminum and light wall hydraulic tubing from 3/8" to 7/8".

- New stronger bending bar
- Bending shoes change quickly. Trouble free ratchet mechanism. Bend 3/4" tube to 90° in less than 10 seconds
- Index marks ensure bending to length
- Complete swing bender kit includes all items shown to bend 3/8", 1/2", 5/8", 3/4" and 7/8" tubing per case.

SERVICEFIRST ITEM NO	DESCRIPTION
TOL01441	TOOL; HAND RATCHET TUBE BENDER KIT, FOR USE W/ 3/8, 1/2, 5/8, 3/4, AND 7/8" TUBE
TOL02910	TOOL; 1/2 INCH OD BENDING MANDREL, 60333
TOL01868	TOOL; 3/4" MANDREL FOR RITCHIE RATCHET TUBE BENDER
TOL02070	TOOL; 7/8IN MANDREL FOR YELLOW JACKET RATCHET HAND BENDER
TOL01470	TOOL; CROSS-BAR ASSEMBLY FOR RITCHIE NO. 60331
TOL01471	TOOL; RATCHET BODY FOR RITCHIE NO. 60331
ADP01018	ADAPTER; REVERSE BEND ADAPTER FOR RITCHIE 60331 RATCHET HAND BENDER
HUS03735	HOUSING; RITCHIE 60343 BENDER BODY HOUSING FOR 60331 HAND BENDER
NUT01047	NUT; WING NUT AND E-CLIP, RITCHIE 60348

### YELLOW JACKET® Spring Tube Bender



Specially designed YELLOW JACKET spring benders slip over soft copper and aluminum tubing during bending to help prevent tube collapse. Silver-plated finish. Conforms to Fed. Spec. GGG-B-191-a Type IV.

SERVICEFIRST ITEM NO	DESCRIPTION
TOL01530	TOOL; 6-PIECE SPRING TUBE BENDER, 6-SIZES
TOL01466	TOOL; SPRING TUBE BENDER, 1/4", 3/8", 1/2", 5/8" OD
TOL01549	TOOL; 4-PIECE SPRING TUBE BENDER, 1/2 IN, 5/8 IN, 3/4 IN AND 7/8 IN OD, RITCHIE NO. 60353
TOL02125	TOOL; RITCHIE 60354 1/4 INCH SPRING BENDER
TOL02126	TOOL; RITCHIE 60355 5/16 INCH SPRING BENDER
TOL02127	TOOL; RITCHIE 60356 3/8 INCH SPRING BENDER
TOL02128	TOOL; RITCHIE 60357 7/16 INCH SPRING BENDER
TOL02129	TOOL; RITCHIE 60358 1/2 INCH SPRING BENDER
TOL02130	TOOL; RITCHIE 60359 5/8 INCH SPRING BENDER
TOL01557	TOOL; SPRING TUBE BENDER FOR 3/4IN OD TUBE, RITHIE NO. 60360
TOL01558	TOOL; SPRING TUBE BENDOR FOR 7/8IN OD TUBE, RITCHIE NO. 60361

**Refrigerant Handling**

**YELLOW JACKET® Full Range Heavy Duty Tube Benders**



Make fast bends on almost every size of soft copper, brass, aluminum, steel and soft stainless steel tubing to 180°. 60390 is a compact three-in-one bender for 1/4", 5/16" and 3/8" O.D. tubing. Calibrated markings for bends up to 180° help you duplicate angles. The balance of the line features special hardened wearing surfaces to help maintain accuracy. Conforms to Fed. Spec. GGG- B-191-a Type III, Class 2.

SERVICEFIRST ITEM NO	DESCRIPTION
TOL01888	TOOL; FULL RANGE HEAVY DUTY TUBE BENDER, 1/4IN
TOL01887	TOOL; FULL RANGE HEAVY DUTY TUBE BENDER, 3/8IN
TOL01514	TOOL; 1/2IN TUBE BENDER 1-1/2IN BENDING RADIUS
TOL01531	TOOL; FULL RANGE HEAVY DUTY 5/8IN TUBE BENDER, 2-1/4IN BENDING RADIUS
TOL01478	TOOL; 3/4" TUBE BENDER
TOL01479	TOOL; 7/8" TUBE BENDER
TOL01515	TOOL; 3-IN-1 TUBE BENDER, 14IN - 5/16IN - 3/8IN, 15/16IN RADIUS
TOL02082	TOOL; HOOK/BOLT FOR RITCHIE 60378 TUBE BENDER

**YELLOW JACKET® Tubing Expander/Swager**



With long handles for comfortable leverage, you can easily expand 5/16" to 1-5/8" O.D. soft copper and aluminum tubing in seconds. Handles, tapered expanding pin, and other moving surfaces are heat treated for long-term durability. Select from nine expander heads to attach to the front of the handles.

- Precise swaging on the job
  - Re-round deformed tube and fitting ends
  - Help salvage shorts and scrap to make couplings
  - Use on 0.063" wall soft copper and aluminum to 1-5/8" O.D. (anneal hard copper prior to use)
  - Use on 0.047" wall soft steel to 1-1/8" O.D.
  - Use on 0.039" wall stainless steel to 7/8" O.D.
- The savings of precise swages instead of couplings

- 100% of couplings
- 50% of solder points
- 50% of soldering material
- 50% of time
- Possible leaks

SERVICEFIRST ITEM NO	DESCRIPTION
TOL02058	TOOL; RITCHIE 60407 COMPLETE EXPANDER KIT
TOL02091	TOOL; RITCHIE 60413 EXPANDER HEAD, 5/16
TOL02092	TOOL; RITCHIE 60422 EXPANDER HEAD, 1-3/8
TOL02093	TOOL; RITCHIE 60424 EXPANDER HEAD, 1-5/8

**YELLOW JACKET® Swaging and 45° Flaring Tools**



This combination tool both flares and swages soft or annealed copper and similar materials.

**3/16" to 3/4" Tube Sizes**

Six hardened and plated alloy steel adapters are interchangeable to easily convert sizes and functions. Slip-on self-centering steel yoke has a feed screw with extra long handle. For a sure grip when attaching adapters to the feed screw, adapters are deeply knurled. Flaring bars are hardened and chrome plated for durability.

Kit comes complete with six swage adapters, flaring cone, two flaring bars, yoke, and a deluxe case.

**ALSO AVAILABLE**

**1/2" to 3/4" Tube Sizes**

Mid-size swaging and flaring tool for 1/2", 5/8" and 3/4" O.D. tubing.

**3/4" to 1-1/8" Tube Sizes**

Swages 3/4", 7/8" and 1-1/8" O.D. tubing. Flares 3/4", 7/8", and 1-1/8" O.D. tubing.

SERVICEFIRST ITEM NO	DESCRIPTION
TOL01407	TOOL; SWAGE/45 DEG. FLARING, 3/16" TO 3/4"
TOL02056	TOOL; RITCHIE 60443 COMPLETE YOKE FOR 60453/60440
ADP01100	ADAPTER; 3/16" AND 3/8", RITCHIE 60444
KIT08421	KIT; RITCHIE 60453 SWAGE/FLARE KIT-COMPLETE, 1/2IN - 3/4IN OD
TOL01480	TOOL; LARGE SWAGE/FLARING TOOL, 3/4" TO 1-1/8" OD

# Tools and Test Equipment

## Refrigerant Handling

### YELLOW JACKET® Punch-Type Swaging Tool



Durable heat-treated and plated alloy steel tool expands one end of copper tubing for connecting same size tubes.

SERVICEFIRST ITEM NO	DESCRIPTION
TOL01440	TOOL; MULTI SWAGE PUNCH, 6 SIZES-3/16 THRU 5/8
TOL02572	TOOL; 6 PC SWAGING SET
TOL02121	TOOL; RITCHIE 60463 SWAGE PUNCH, 3/16 INCH
TOL02122	TOOL; RITCHIE 60464 SWAGE PUNCH, 1/4 INCH
TOL02123	TOOL; RITCHIE 60465 SWAGE PUNCH, 5/16 INCH
TOL01481	TOOL; 3/8" OD FLARING PUNCH
TOL01992	TOOL; 1/2 INCH OD PUNCH TYPE SWAGING TOOL
TOL01993	TOOL; 5/8 INCH OD PUNCH TYPE SWAGING TOOL
TOL01482	TOOL; 3/4" OD FLARING PUNCH
TOL01483	TOOL; 7/8" OD FLARING PUNCH
TOL01516	TOOL; 4-PIECE SWAGING SET, 1/4, 3/8, 1/2 AND 5/8IN
TOL01445	TOOL; 5 PIECE SWAGING KIT IN POU, 1/4, 5/16, 3/8, 1/2 AND 5/8"

### YELLOW JACKET® 3-in-1 Swaging and Flaring Tool



This revolutionary tool swages soft and hard copper and flares soft copper. Swaging hard copper lowers the cost of joining, eliminating the time and expense of annealing.

- One-piece construction with hardened steel clamping dies
- Quick-change swaging adapters heat-treated to take continual use
- Automatic self-centering of swaging adapters and flaring cone for consistent results
- Set includes heavy duty carrying case and 60161 tube reamer

SERVICEFIRST ITEM NO	DESCRIPTION
KIT08033	KIT; THREE IN ONE SWAGING AND FLARING TOOL, SIX SIZES 3/16 - 5/8 INCH
TOL02396	TOOL; RATCHETING DRIVER WRENCH WITH BITS, 60584
TOL01510	TOOL; YELLOW JACKET FAN BLADE PULLER
TOL01511	TOOL, REPLACEMENT FINGERS FOR YELLOW JACKET FAN BLADE PULLER(4)

### YELLOW JACKET® Retaining Ring Pliers



Compact pliers with interchangeable tips. Work on internal and external retaining rings where bearings are used, where a shaft must be held in a bore, under the dashboard and more.

SERVICEFIRST ITEM NO	DESCRIPTION
TOL02867	TOOL; SMALL RETAINING RING PLIERS
TOL02088	TOOL; RITCHIE 60594 RETAINING RING PLIERS FOR 3/8" - 2" INTERNAL RINGS; 1/4" - 2" EXTERNAL RINGS

### YELLOW JACKET® Premium Forged Service Wrenches



Enclosed ratcheting mechanism to keep out debris that could jam the action.

- Higher torque ratings than 60613
- 72 teeth per end for 5°/6° ratcheting
- No reversing mechanism to wear out; simply turn wrench over for reversing
- Uses less work room for ratcheting
- Heat-treated chrome vanadium forging for durability

SERVICEFIRST ITEM NO	DESCRIPTION
TOL01788	TOOL; RITCHIE 60600 REFRIGERATION RATCHET, 1/4" & 3/8" SQUARE
TOL01789	TOOL; RITCHIE 60601 REFRIGERATION RATCHET, 3/16" & 5/16" SQUARE
TOL01790	TOOL; RITCHIE 60600 REFRIGERATION RATCHET, 1/4" & 3/8" SQUARE, BULK PACK
TOL01791	TOOL; RITCHIE 60601 REFRIGERATION RATCHET, 3/16" & 5/16" SQUARE, BULK PACK
TOL02025	TOOL; YELLOWJACKET 60629 2-PIECE WRENCH SET

### YELLOW JACKET® Service Wrench and Adapter



Combination service wrench with 60609 hex adapter for accessing liquid and suction based valves on residential and commercial units up to 7.5 tons. Heat-treated hex works for 3/16" and 5/16" hex valves. New adapter for some York/Coleman units

SERVICEFIRST ITEM NO	DESCRIPTION
TOL01410	TOOL; HEX KEY ADAPTER
TOL01517	TOOL; SERVICE WRENCH AND ADAPTER, CONSISTS FO RITCHIE NOS. 60613 AND 60609
TOL02254	TOOL; HEX KEY ADAPTER FOR SOME YORK, GOODMAN AND AMANA VALVES

**Refrigerant Handling**

**YELLOW JACKET® Service Wrenches**



Straight, Heavy Duty, and Offset service wrenches offered.

**Straight** - Standard reversible ratchet wrench with square openings: 1/4" and 3/16" at one end; 3/8" and 5/16" at other end.

**Heavy Duty** - This version of original 60613 comes with heavier handle and larger gear. Stronger gear teeth are combined with strong reversing mechanism for long service life. Square opening 3/16" and 1/4" at one end; 3/8" and 5/16" at other end.

**Offset** - KNUCKLE-SAVER™ design for convenience in tight areas. Square opening 1/4" and 3/16" at one end; 3/8" and 5/16" at other.

**Refrigeration** - Reversible wrench for larger service valves. 3/8" square one end; 1/2" square at other.

**7" Long Ratchet** - Heavy duty reversible ratchet wrench with hex openings 1/2" and 9/16" at one end; and square 3/16" and 1/4" at other end.

SERVICEFIRST ITEM NO	DESCRIPTION
TOL01435	TOOL; Heavy Duty Refrigeration Wrench Wrench, 7" Long
TOL01408	TOOL; STFT. REF. RATCHET, 1/4", 3/16", 3/8", 5/16"
TOL01484	TOOL; LARGE REF. RATCHET, 3/8" SQUARE X 1/2" SQUARE
TOL01409	TOOL; OFF-SET REF.RATCHET, 1/4", 3/16", 3/8" 5/16"
TOL01523	TOOL, HEAVY DUTY SERVICE WRENCH, SQUARE OPENING, 3/16, 1/4, 3/8 AND 5/16
TOL01416	TOOL; BULK PACKAGE OF 60613 STR, SERVICE RATCHET, 50/BX
TOL01417	TOOL; BULK PACKAGE OF 60016 OFF SET SERVICE RATCHET, 50/BX

**YELLOW JACKET® Sporlan Value Wrench**



Spanner end tightens packing nut around super heat adjustment stem. 1/8" square end adjusts Sporlan solenoid valves with manual lift stems as on Series B6 and E6 through MA 50. Also 3/16" square at same end for expansion valves.

SERVICEFIRST ITEM NO	DESCRIPTION
TOL01524	TOOL, SPORLAN VALVE WRENCH

**YELLOW JACKET® Knuckle-Saver™ Hex Wrench Sets**



The unique offset design of these YELLOW JACKET wrenches saves your knuckles in tight places.

- Accurately sized and broached
- Finger control reversing
- Chrome plated for durability

SERVICEFIRST ITEM NO	DESCRIPTION
TOL01448	TOOL; 5 PC. KNUCKLE-SAVER HEX WRENCH SET, 1/4" - 7/8"
TOL01764	TOOL; RITCHIE KNUCKLE-SAVER 3-PC HEX WRENCH SET, 1/4" - 9/16"
TOL01467	TOOL; KNUCKLE SAVER REFRIGERATION RATCHET, 1/4" X 5/16"
TOL02028	TOOL; KNUCKLE-SAVER HEX WRENCH, 3/8 X 7/16
TOL01468	TOOL; KNUCKLE SAVER REFRIGERATION RATCHET, 1/2" X 9/16"
TOL02526	TOOL; HEX RATCHET WRENCH, 5/8 X 11/16, RITCHIE 60636

**YELLOW JACKET® Strap Wrench**



Easy-to-use strap attaches easily for quick gripping of chrome or nickel finished pipe without gouging the finish. Sturdy one-piece construction.

SERVICEFIRST ITEM NO	DESCRIPTION
TOL01485	TOOL; STRAP WRENCH, 17" CAPACITY

**YELLOW JACKET® Pinch-Off Tools**



- 60661 pinches off copper and other lines quickly. Trigger release.
- 60665 will pinch off and reround 1/4", 5/16", 3/8" and 1/2" copper

SERVICEFIRST ITEM NO	DESCRIPTION
TOL01419	TOOL; VISE GRIP PINCHOFF
TOL01474	TOOL; PINCHOFF AND ROUNDING TOOL FOR 1/4, 5/16, 3/8 AND 1/2IN COPPER
TOL01565	TOOL; VISEGRIP RR PINCH-OFF TOOL

## Tools and Test Equipment

### Refrigerant Handling

#### YELLOW JACKET® E-Z Grip Ratchets



Easy-to-hold handles and reversing mechanism provide comfortable operation even when used frequently. Heat-treated gear hex for long life.

SERVICEFIRST ITEM NO	DESCRIPTION
TOL02868	TOOL; E-Z GRIP 6 PIECE WRENCH SET

#### YELLOW JACKET® Recovery Pliers



The fastest and easiest way to evacuate refrigerant before disposal of a unit. Snaps onto refrigerant line and punctures super large hole for immediate and maximum full flow to recovery unit. One adjustable tool fits all sizes from 3/16" to 7/8".

SERVICEFIRST ITEM NO	DESCRIPTION
TOL01564	TOOL; REFRIGERANT RECOVERY PLIERS, USE ON 3/16IN - 7/8IN OD HARD TUBING
KIT07729	KIT; REPLACEMENT NEEDLE AND GASKET FOR RITCHEE NO. 60667

#### YELLOW JACKET® Hex Keys



All YELLOW JACKET hex keys from 1/20" to 5/16" are premium 8650 heat-treated steel alloy for rugged use.

- Chamfered square cut ends for easy socket insertion
  - Corrosion-resistant finish
  - Patented organizer case with identifying slots that lock keys in place when not in use
- Ball end keys ease tightening of fasteners where sockets are up to 30° off axis.  
Provides fast full socket engagement where regular hex keys cannot do the job.

**Note:**

All individual keys listed are in 10 pak

SERVICEFIRST ITEM NO	DESCRIPTION
TOL01521	TOOL, 12 PIECE HEX KEY SET WITH STANDARD END W/CASE
TOL01522	TOOL, 12 PIECE HEX KEY SET WITH BALL END W/CASE
TOL02173	TOOL; 5/64 HEX KEY WITH BALL END, 10/PAK

#### YELLOW JACKET® Fold-Up Hex Key Sets



Locate the correct key size easily. For rugged use, each key is premium 8650 heat-treated steel alloy.

- Chamfered square cut ends for easy socket insertion
- Corrosion-resistant finish
- Smooth one-piece handle with sizes clearly marked
- Keys snap to work position for leverage and fold into handle for compact storage
- Replacement keys available

SERVICEFIRST ITEM NO	DESCRIPTION
TOL01502	TOOL; 8-SIZE FOLD-UP HEX KEY SET
TOL01503	TOOL; 9-SIZE FOLD-UP HEX KEY SET

#### YELLOW JACKET® Fin Straighteners



Straightens condenser and evaporator fins quickly and easily - even severely damaged ones. Also cleans away lint, rust, dirt and other debris. Adjustable tension and sturdy metal body.

SERVICEFIRST ITEM NO	DESCRIPTION
TOL01420	TOOL; ADJUSTABLE FIN STRAIGHTENER AND CLEANER
TOL01486	TOOL; FINFIX4 FIN COMB, 16 & 17 FPI
TOL01421	TOOL; ADJUSTABLE FIN STRAIGHTENER & CLEANER W/LARGE HANDLE

**Refrigerant Handling**

**YELLOW JACKET® Ergonomic FinFix™ Combs**



Improved shape conforms to the hand and thumb for more comfortable grip and use. Color coded nylon fin combs are designed to straighten and clean fins on standard and high efficiency condensers and evaporators. Available individually bagged or as a set of 6 assorted. One set of 6 covers twelve different fin sizes.

SERVICEFIRST ITEM NO	DESCRIPTION
TOL01862	TOOL, ERGONOMIC FINFIX 1 FIN COMB FROM RITCHIE, 8 & 10 FPI
TOL01863	TOOL, ERGONOMIC FINFIX 2 FIN COMB FROM RITCHIE, 9 & 15 FPI
TOL01864	TOOL, ERGONOMIC FINFIX 3 FIN COMB FROM RITCHIE, 11 & 13 FPI
TOL01865	TOOL, ERGONOMIC FINFIX 4 FIN COMB FROM RITCHIE, 12 & 14 FPI
TOL01866	TOOL, ERGONOMIC FINFIX 6 FIN COMB FROM RITCHIE, 18 & 20 FPI
TOL01867	TOOL, ERGONOMIC FINFIX 7 FIN COMB FROM RITCHIE, 21/22 & 23/24 FPI
TOL01446	TOOL; NYLON FIN COMBS, ASSORTMENT OF 6, 8, TO 20 FPI
TOL02225	TOOL; NYLON FIN COMB, GREEN, BAG OF 25, 61164
TOL01496	TOOL; Fin Comb - FinFix 6, 18 & 20 fpi, 25/bag

**YELLOW JACKET® 6-in-1 Fin Straightener**



Fin straightener sizes are marked on head - 8, 9, 10, 12, 14, and 15 fins per inch. Compact 4" length.

SERVICEFIRST ITEM NO	DESCRIPTION
TOL01525	TOOL, 6-IN-1 FIN STRAIGHTENER
TOL01526	TOOL, REPLACEMENT HEAD FOR 61171 FIN STRAIGHTENER
HDL00879	HANDLE, REPLACEMENT HANDLE FOR 61171 FIN STRAIGHTENER

**YELLOW JACKET® 1 and 2 Fixed Monitoring Systems (Refrigerant and Ammonia)**



With YELLOW JACKET™ Fixed Monitoring Systems for refrigeration leaks, you can configure controllers and remote sensors to meet your requirements for point or perimeter detection. You can monitor most common refrigerants or ammonia. Controllers are available using one or two sensors or four or six sensors. The system first emits an intermittent siren and constant orange illumination at the low level, about 100 ppm. At the high level, usually about 1,000 ppm\*, the siren is continuous and LED is red to signal a condition that requires immediate action. (\* High levels: R-123 is about 300 ppm; ammonia about 150 ppm.)

SERVICEFIRST ITEM NO	DESCRIPTION
MON00017	MONITOR; RITCHIE 68004 SINGLE SENSOR REFRIGERANT WITH TWO LEVEL DETECTION
MON00009	MONITOR; TWO SENSOR REFRIGERANT MONITOR WITH TWO LEVEL DETECTION, 120V, R134a, R404A, R410A, R407c AND R123
BAT00057	BATTERY; REFRIGERANT MONITOR
CAB00986	CABLE; 500 FT ALARM TO SENSOR CABLE FOR RITCHIE REFRIG. MONITOR
CAB00987	CABLE; 1000 FT ALARM TO SENSOR CABLE FOR RITCHIE REFRIG. MONITOR
MON00020	MONITOR; RITCHIE 68108 TWO SENSOR REFRIGERANT MONITOR WITH TWO LEVEL DETECTION, 230V

**YELLOW JACKET® 4 and 6 Sensor Monitoring Systems (Refrigerant and Ammonia)**



YELLOW JACKET 4 and 6 sensor monitors provide all of the benefits of the 1 and 2 sensor systems, but increase coverage area and level of coverage with more sensors at greater distances from the controller. Cost per channel are lower. You can locate 4 or 6 sensors up to 500' from the controller.

SERVICEFIRST ITEM NO	DESCRIPTION
MON00010	MONITOR; FOUR SENSOR REFRIGERANT MONITOR WITH TWO LEVEL DETECTION, 120V, R134a, R404A, R410A, R407c AND R123
SEN01091	SENSOR; REFRIGERANT SENSOR FOR RITCHIE TWO LEVEL MONITOR

**YELLOW JACKET® Integrated Area Monitor**



Sensor and controller are combined into a single, compact unit that can be hard wired into any outlet or power supply and detects leaks in the area. The unit emits a continuous siren and constant red LED illumination at about 1000 ppm. This early warning gives technicians time to find the leak while refrigerant concentration is still low. With adjustable delay, the monitor waits 0-5, 10 or 15 minutes to avoid false alarms before signaling. Siren can be switched off.

Two voltage-free relays can activate ventilation or remote alarms, or report to control systems. Can also be connected to dedicated 16 unit panel. Expandable indefinitely by connecting control panels.

Size: 3.4" x 5.8" x 2.4" (86 x 147 x 61 mm)

SERVICEFIRST ITEM NO	DESCRIPTION
TOL02748	MONITOR; INTEGRATED AREA MONITOR 115V, 68050, 68050

## Tools and Test Equipment

### Refrigerant Handling

#### YELLOW JACKET® Environmental Enclosure



A sensor element mounted in an area of high condensation, low temperature to -40°F, or direct airflow can experience a fast temperature drop causing a false alarm. These vented enclosures maintain the proper operating temperature around the sensor for alarm reliability.

SERVICEFIRST ITEM NO	DESCRIPTION
HUS03794	HOUSING; SENSOR PROTECTIVE, 68089

#### YELLOW JACKET® 110 lbs. (50 kg) Electronic Scales



Put this rugged scale to work with any refrigerant in any system and eliminate the time and cost of charging cylinders. The time-saving process also eliminates refrigerant transfer from tank to cylinder to system. You weigh the refrigerant container and charge directly into the system or recover from the system. No concern about residual refrigerant in a charging cylinder. Self-contained, the scale is ready to use in the carrying case or removed and set on a level surface. Select 110 or 220-lb. capacity (50 or 100 kg).

SERVICEFIRST ITEM NO	DESCRIPTION
TOL01548	TOOL; REFRIGERANT CHARGING SCALE, RITCHIE 68802
TOL01744	TOOL; RITCHIE PROGRAMMABLE CHARGING SCALE, RANGE 1 OZ TO 100 LBS
KIT08083	KIT, CHARGING SCALE UPGRADE KIT 115V, ADDS PROGRAMMABLE CAPABILITY TO YELLOWJACKET SCALE 68802
ADP01126	ADAPTER; 115V SCALE ADAPTER TO 12V, RITCHIE 68806 AC POWER PACK
CAS01500	CASE; FOR 110#/50KG SCALE, RITCHIE 68809
TOL02018	TOOL; RITCHIE 68812 REFRIGERANT SCALE, 220 LB CAPACITY
TOL02019	TOOL; RITCHIE 68813 PROGRAMMABLE REFRIGERANT SCALE, 220 LB CAPACITY

#### YELLOW JACKET® Wrap-Around Heater for Refrigerant Cylinder



Fits 30/50-125 lb. cylinders. Thermostat controlled with maximum 130°F (54°C) and minimum 120°F (48.8°C) (surface temperature of tank). Cycles on/off to maintain surface temperature. 200 watt, 115V or 230V; 20" velcro straps; 6' cord.

SERVICEFIRST ITEM NO	DESCRIPTION
HTR03378	HEATER; WRAP-AROUND, FOR USE ON 30,50,AND 125 LB REFR. CYLINDARS

#### YELLOW JACKET® Hygro-Thermometer



As indoor air quality and environmental issues gain in importance, instruments to accurately measure temperature and relative humidity are essential.

The YELLOW JACKET hygro-thermometer is a highly accurate industrial grade meter that measures both humidity and temperature for the AC&R industry as well as heating and ventilation.

- Microprocessor controlled for reliability and repeatability
- Wide temperature and humidity range
- Use of temperature only probe -139° to 392°F (-95° to 200°C)
- Industrial grade components
- Calculates and displays dew point in °F or °C
- Maximum and minimum temperature and humidity readings
- Switchable from °F and °C
- Display "hold" function for operator ease
- Replaceable sensor probe

SERVICEFIRST ITEM NO	DESCRIPTION
THR00062	THERMOMETER; HYGRO, INCLUDES PROBE, BATTERIES, CASE, 68850



## Refrigerant Handling

### YELLOW JACKET® Digital Anemometer



Precision industrial grade instrument for air conditioning, refrigeration, heating and ventilation. Measures air velocity and calculates air flow volume.

- Reads air velocity from 40-7800 fpm
- Probes have metal vanes and high quality bearings for durability. Balanced to work reliably at -4° to 210°F (-20° to 99°C)
- Probes calibrated before leaving factory. Replaceable and recalibrateable
- Extension handles and 5' able for hard-to-reach areas
- Microprocessor controlled for reliability and repeatability
- Calculates and reads in CFM (cubic feet/minutes) or CMH (cubic meters/hour)
- Switchable imperial to metric measurements
- Memory saves minimum and maximum readings
- Averages reading over 2 or 16-second periods
- Display "hold" button

SERVICEFIRST ITEM NO	DESCRIPTION
TOL01761	TOOL; YELLOWJACKET DIGITAL ANEMOMETER, COMPLETE KIT 2.75" DIA PROBE

### YELLOW JACKET® Anemometer



This hand-held instrument reads both air velocity and temperature simultaneously when balancing air conditioning/heating ventilation systems.

- Microprocessor controller
- Calculates CFM air volume
- Records minimum and maximum readings
- Averages air velocity
- Display "hold" button freezes LCD reading
- Switchable imperial to metric
- Auto power off after 20 minutes
- RS232 output

SERVICEFIRST ITEM NO	DESCRIPTION
TOL01398	TOOL; ANEMOMETER/TEMP., RS232 OUTPUT, 9V

### YELLOW JACKET® Refrigerant Gas Analyzer



This portable unit delivers the features and benefits professional A/C technicians want for assurance, ease and profitability.

- Dispersive infrared (NDIR) technology quickly determines the weight concentrations of R-12, R-134a, R-22, hydrocarbons and air
- Analytical software identifies all EPA S.N.A.P. approved blends, as well as illegal replacements and blends including propane and butane
- Quickly and automatically determines purity of R-12 and R-134a to help eliminate potential of human error
- Large graphing display is easy to read
- Rechargeable battery lasts all day
- Unit comes in a rugged portable case with R-12 and R-134a sample hoses
- Built-in printer runs an instant receipt for convenient and accurate customer billing (68947)

SERVICEFIRST ITEM NO	DESCRIPTION
TOL02899	TOOL; REFRIGERANT ANALYZER, 68945
TOL02900	TOOL; REFRIGERANT ANALYZER W/PRINTER, 68947
TOL02901	TOOL; AC POWER ADAPTER, 68949

### YELLOW JACKET® Refractometer



For retrofitting a mineral oil system with Solest® HFC, this field tool can accurately predict remaining mineral oil in the system down to 1 percent. Refractive range 1.435 to 1.520 at room temperature.

SERVICEFIRST ITEM NO	DESCRIPTION
TOL01504	TOOL; HAND-HELD REFRACTOMETER

# Tools and Test Equipment

## Refrigerant Handling

### YELLOW JACKET® Digital Psychrometer Thermo Hygrometer



Pocket-sized to carry on every call. Set systems at specific superheat or subcooling temperatures. Use actual wet and dry bulb measurements and factory charts.

- Display °F or °C
- Data hold
- Auto power off
- Display relative humidity and temperature simultaneously

SERVICEFIRST ITEM NO	DESCRIPTION
TOL01397	TOOL; DIGITAL SLING PSYCHROMETER

### YELLOW JACKET® Sling Psychrometer



Streamlined, compact tool measures wet and dry bulb temperatures of surrounding air for immediate conversion of readings to relative humidity percentage.

- One piece unit with self-contained housing fits into your pocket
- Calibrated and easy-to-read
- "Slide rule" scale is part of the case
- Accurate to 1 percent of "Hygrometric Tables"

SERVICEFIRST ITEM NO	DESCRIPTION
TOL01487	TOOL; SLING PSYCHROMETER
TOL02139	TOOL; REPLACEMENT WICKS FOR RITCHIE 69010 PSYCHROMETER, 5 PER PACK
TOL02140	TOOL; REPLACEMENT TUBE FOR RITCHIE 69010 PSYCHROMETER

### YELLOW JACKET® Mechanical Vacuum Gauges °F



Full range mechanical bourdon tube gauges for determining system vacuum. Much more accurate than a compound gauge. All gauges are 1/8" NPT Male bottom connection.

3-1/8" gauges are larger to show vacuum more accurately in inches of mercury and Torr (or millibar).

1-1/2" gauges are used on YELLOW JACKET vacuum pumps.

**Caution:** Vacuum gauges must be handled carefully. Dropping, pressurizing and rough handling reduce their life.

SERVICEFIRST ITEM NO	DESCRIPTION
GAG00974	GAUGE; 3-1/8" MECHANICAL VACUUM GAUGE, 0-30 IN Hg/760-0 TORR
GAG00975	GAUGE; 3-1/8" MECHANICAL VACUUM GAUGE, EUROPEAN VERSION, 1000-0 MILLIBAR/30-0"
GAG00972	GAUGE; RITCHIE 93011 VACUUM PUMP 30 INCH VACUUM GAUGE

### YELLOW JACKET® Deluxe LED Vacuum Gauge



Professional laboratory type instrument with 0.56" high bright LED readout is 100 percent automatic.

- Thermocouple sensor technology for precise and repeatable accuracy
- Improved software expands sensing range from atmospheric pressure to 1 micron
- Calibration standards traceable to NIST

Complete unit includes aluminum LED display unit, sensor with valve, cable, brass connector and carrying case.

SERVICEFIRST ITEM NO	DESCRIPTION
TOL01461	TOOL; YELLOW JACKET DELUXE LED VACUUM GAUGE, 110V, 1999 TO 1 MICRON
GAG00931	GAUGE; LED VACUUM GAUGE KIT WITH CASE, 230 V
VAL07440	VALVE; OPTIONAL BALL VALVE FOR SUPEREVAC VACUUM GAUGE, 1/8" FPT X 1/4" FEM. FL.
ADP01022	ADAPTER; ADAPTER BRASS COUPLER FOR SUPEREVAC VACUUM GAUGE

### YELLOW JACKET® SuperEvac™ LCD Vacuum Gauge



YELLOW JACKET LCD vacuum gauges combine thermocouple sensor technology with advanced electronics for precise readings and repeatability not found with thermistor sensors or analog meters. The result - accurate readings without recalibration on job after job. Thermocouple technology has long been proven in laboratory and precision industrial instrumentation for sensing the deep vacuum range. Thermocouple sensors are factory calibrated and exhibit few of the electronic variances of thermistor sensors found in many other electronic gauges.

SERVICEFIRST ITEM NO	DESCRIPTION
GAG00941	GAUGE; SUPERVAC LCD VACUUM GAUGE COMPLETE IN CASE WITH COILED CORD
SEN01056	SENSOR; REPLACEMENT SENSOR FOR 69075 VACUUM GAUGE

**Refrigerant Handling**

**YELLOW JACKET® Digital LCD Economy Vacuum Gauge**



For peace of mind, this gauge shows you that air and moisture have been removed from the system. The lower the number of microns, the more complete the vacuum and less chance for no-charge call-backs. Track down 14 increments from atmosphere to 25 microns to know that the system is clean and your vacuum pump is performing properly.

- Unique thermal conductivity sensor automatically compensates for temperature with no calibration
- Simple on/off controls
- Easy-to-clean sensor handles 450 psi positive pressure
- Rugged contractor-grade construction with tough ABS housing and solid state circuitry for accuracy
- Automatic battery saver shuts gauge off after 20 minutes with no reading changes
- Low battery indicator
- Calibration standards traceable to the National Institute of Standards and Technology (NIST)
- Patented technology

SERVICEFIRST ITEM NO	DESCRIPTION
GAG00951	GAUGE; RITCHIE 69080 DIGITAL LCD VACUUM GAUGE, DOWN TO 25 MICRONS
CAS01331	CASE; PROTECTIVE CASE FOR RITCHIE 69080 DIGITAL VACUUM GAUGE

**YELLOW JACKET® Digital Vacuum Gauge**



This easy-to-use gauge helps you to be certain that air and moisture have been removed from the system. A simple push of a button changes the display readout between 7 units of vacuum. Each displays down to the equivalent of 10 microns of vacuum to let you know that your vacuum pump is clean and performing properly. If the sensor gets dirty, simply pull a new sensor out of your tool kit, plug it into the gauge, run through a quick calibration process, and be back on the job within minutes.

- Unique patented thermal conductivity sensor automatically compensates for temperature
- Replaceable, cleanable, plug-in sensor (69087) handles 450 psi positive pressure
- Displays 7 different units of vacuum (microns, milliTor, Torr, millimeters of mercury, millibar, kiloPascal and Pascal)
- 12" coiled sensor cord stretches to 24" for easy reach, connectivity, and readability of display
- Low battery indicator
- Automatic shut-off after 20 minutes
- Operating temperature range: 32° to 122°F (0° to 50°C)
- Weight: 12 oz. (340 g) with battery
- Calibration standards traceable to (NIST)
- Battery life: Approximately 25 hours continuous use

SERVICEFIRST ITEM NO	DESCRIPTION
GAG01064	GAUGE; 69086 VACUUM
SEN01393	SENSOR; REPLACEMENT, FOR 69086 VACUUM GAUGE

**YELLOW JACKET® Heat Gun**



600° and 1000°F settings. Shockproof and tough housing is durable and lightweight. Used for:

- Faster vacuums
  - Curing/drying
  - Coil defrosting
  - Drying out condensation in motors, clutches, etc.
- Kits include gun, adapters and case.

SERVICEFIRST ITEM NO	DESCRIPTION
TOL01518	TOOL; HEAT GUN, 600F AND 1000F SETTING, 115V

**YELLOW JACKET® Digital Refrigerant Pressure Temperature Chart**

Accurate pressure and temperature references for 61 refrigerants

- 5.1 to 462.5 psi
- 0.35 to 31.88 bar
- 0.035 to 3.188 MPa
- 40 to 155 °F
- 40 to 68 °C

Includes manual, soft case and battery (3V CR2032)

SERVICEFIRST ITEM NO	DESCRIPTION
TOL02942	TOOL; DIGITAL P/T CHART, 69096

# Tools and Test Equipment

## Refrigerant Handling

### YELLOW JACKET® Superheat Calculation Kit



With the access valve, improved °F and °C digital thermometer and core extractor tool you can easily take an internal temperature reading for calculating system superheat

- Read from -58° to 302°F (-50° to 150°C) and pressure.
- Extract Schrader core without opening system
- Remove broken Schrader cores
- Chase damaged threads
- Replace cores
- Use as vacuum valve to increase flow and reduce vacuum time. Also can decrease charging time
- Use to reduce recovery time

SERVICEFIRST ITEM NO	DESCRIPTION
KIT07684	KIT; RITCHIE SUPERHEAT KIT W/O ACCESSORIES, RITCHIE NO. 69103
KIT07518	KIT; COMPLETE SUPERHEAT KIT AND ACCESSORIES
KIT07561	KIT; YELLOW JACKET SUPERHEAT CALCULATION KIT
KIT07519	KIT; DIGITAL THERMOMETER AND NUT FOR 69104 SUPERHEAT KIT

### YELLOW JACKET® Pocket Digital Thermometer



Digital head rotates 180° for easy reading. Includes on/off button, auto shut-off after 10 minutes to save battery, reading updates every second, and 5" (125 mm) stem.

SERVICEFIRST ITEM NO	DESCRIPTION
THR00044	THERMOMETER; DIGITAL POCKET THERMOMETER, -58F TO 302F, 180 DEG ROTATING HEAD, WITH DISPLAY
BAT00029	BATTERY; BATTERY FOR YELLOWJACKET 69107 THERMOMETER

### YELLOW JACKET® Digital Thermometer Differential and Single Probes



Thermometer applications for HVAC/R technicians, research, and industrial process laboratory.

SERVICEFIRST ITEM NO	DESCRIPTION
THR00047	THERMOMETER; DUAL THERMOMETER, 2 CLAMP ON, 2 GENERAL PURPOSE PROBES AND CASE
THR00043	THERMOMETER; YELLOW JACKET DUAL DIGITAL THERMOMETER, 2 STRAP-ON, 2 GENERAL PURPOSE PROBES AND CASE
THR00048	THERMOMETER; DUAL THERMOMETER, 2 GENERAL PURPOSE PROBES AND CASE
TOL01762	TOOL; YELLOWJACKET TYPE K CLAMP-ON PROBE, 1100F MAX TEMP.
TOL02169	TOOL; TYPE K STRAP-ON PROBE, 300 F (135C), 12 FT, 69224

### YELLOW JACKET® Micro Infrared Thermometer



At 2.7" x 1.5" x 0.7" and 0.9 oz. (1.1 oz. with battery), this is the most compact infrared thermometer available.

Quickly measures -27° to 428°F (-33° to 220°C) with distance to spot ratio of about 1:1.

- ±2% of reading or 4°F (2°C), whichever is greater
- Operating temperature range: 14° to 122°F (-10° to 50°C)
- Emissivity: 0.05-1 adjustable
- Wave length: 5-14 microns
- Maximum and minimum hold
- °F/°C switchable
- Resolution: 0.1°F or C
- Fast response time of 0.5 second
- 3V button cell battery included (CR2032)

SERVICEFIRST ITEM NO	DESCRIPTION
TOL02090	TOOL; RITCHIE 69225 MICRO INFRARED THERMOMETER

### YELLOW JACKET® Pistol-Grip Infrared Thermometer



With wide measurement of -40° to 932°F, this easy-to-use tool is the effective choice for high or low temp and refrigeration applications. For accuracy and resolution, the focal point is a tight 10:1 ratio with laser sighting.

- Selectable 3-point emissivity for simple set-up
- Backlight for dark area use
- °F/°C switchable
- ± 2% or 2°C accuracy
- 0.1°F resolution at -40° to 212°F (-40° to 100°C)
- Fast response time of 500 ms

SERVICEFIRST ITEM NO	DESCRIPTION
TOL02116	TOOL; RITCHIE 69228 PISTOL GRIP INFRARED THERMOMETER, 10:1, -40F TO 932F E

## Refrigerant Handling

### YELLOW JACKET® Infrared Thermometer



With laser sighting, you simply target a surface and press the power key to take a fast and safe non-contact temperature reading. 95 percent response in 500 ms at -4° to 788°F (-20° to 420°C). To take readings in low light, the large LCD features a switchable backlight.

SERVICEFIRST ITEM NO	DESCRIPTION
TOL01542	TOOL; INFRARED THERMOMETER, 6:1 VIEWING

### YELLOW JACKET® Digi-Alarm Thermometer



This compact unit measures from -58° to 392°F (-50° to 200°C) and triggers an alarm at the high and low temperatures that you've programmed.

- Maximum/minimum temperature memory
- °F/°C switchable
- Data hold function
- Key tone for operation confirmation
- No calibration
- Foldaway stand
- Automatic self test after battery installation

SERVICEFIRST ITEM NO	DESCRIPTION
MTR00965	METER; DIGI-ALARM THERMOMETER, RITCHIE 69239

### YELLOW JACKET® Pocket Thermometer



1" and 1-3/8" dial thermometers are adjustable with a 5" stainless steel stem. Colored sheath with pocket clip. Individually calibrated and shock resistant.

SERVICEFIRST ITEM NO	DESCRIPTION
THR00053	THERMOMETER; RITCHIE 69251 1INCH DIAL THERMOMETER, 0 TO 220 DEG F
THR00049	THERMOMETER; 1-3/8" DIAL POCKET THERMOMETER, -40 TO 160F
THR00045	THERMOMETER; POCKET THERMOMETER, 1-3/8IN DIAL, 0F TO 220F, WITH DISPLAY

### YELLOW JACKET® Sound Level Meter



This easy-to-use unit measures and displays 30-130 dB digitally and as an analog graph. Helps you to test for OSHA compliance, monitor equipment, and more.

- Meets IEC 651, ANSI S1.4, Type 2 standard
- Six measurement ranges in 10 dB increments
- Max/Min and Max Hold functions

SERVICEFIRST ITEM NO	DESCRIPTION
TOL02118	TOOL; RITCHIE 69346 SOUND LEVEL METER, 30 TO 130 db

### YELLOW JACKET® Tachometer



Easy-to-use and read unit measures 10 to 99,999 rpm on compressors, fans, motors, gears, pulleys, and more. Non-contact reading maintains torque and precise measurement.

- Auto range function
- Units in rpm
- Hold function to freeze rotating speed
- Readings to a resolution of 0.001 rpm

SERVICEFIRST ITEM NO	DESCRIPTION
TOL02071	TOOL; YELLOW JACKET 69348 TACHOMETER

# Tools and Test Equipment

## Refrigerant Handling

### YELLOW JACKET® AccuProbe™ Leak Detector



Building on the field-proven original, this improved unit is the only tool you need for fast, easy and certain leak detection. The heated sensor tip of the YELLOW JACKET® AccuProbe™ Leak Detector positively identifies the leak source for all refrigerants. Frequency of flashes in the tip and audible beeping increases the closer you get to the leak source. You zero-in and the exclusive Smart Alarm™ LED shows how big or small the leak on a scale of 1 to 9. Maximum value helps you determine if the leak needs immediate repair.

Service life of the replaceable heated electro-chemical sensor is more than 300 hours with minimal cleaning and no adjustments. Replaceable filters help keep out moisture and dust that can trigger false sensing and alarms.

Independent of the Smart Alarm LED, the unit combines three sensitivity levels with visual and audible signalling, included ultra-high to detect leaks that could be missed with other detection systems

SERVICEFIRST ITEM NO	DESCRIPTION
TOL01972	TOOL; HEATED ACCU PROBE (INCLUDES CARRY CASE, ADAPTER AND PROBE)
TOL02977	TOOL; 69366 HEATED ACCU PROBE LEAK DETECTOR, EURO, 220V/50Hz, 69366
ADP01130	ADAPTER; RITCHIE 69380, AC 115V/60 HZ FOR HEATED ACCUPROBE
KIT09391	KIT; SENSOR, FILTER AND BOTTLE KIT FOR RITCHIE ACCUPROBE SENSOR
KIT09396	KIT; RITCHIE 69384 MAINTENANCE KIT FOR ACCUPROBE LEAK DETECTOR, INCLUDES SENSOR AND FILTERS
FLR06093	FILTER; SENSOR, FIVE FILTERS FOR REFRIGERANT LEAK DETECTOR, #69385

### YELLOW JACKET® Combustible Gas Detector



Hand-held precision equipment detects all hydrocarbon and other combustible gases including propane, methane, butane, industrial solvents, and more. Unit is preset at normal sensitivity, but you can switch to high or low. After warm-up you'll hear a slow beeping. Frequency increases when a leak is detected until an alarm sounds when moving into high gas concentration. The illuminated bar graph indicates leak size.

If no leak is detected in an area you suspect, select high sensitivity. This will detect even low levels in the area to confirm your suspicions. Use low sensitivity as you move the tip over more defined areas, and you will be alerted when the tip encounters the concentration at the leak source.

SERVICEFIRST ITEM NO	DESCRIPTION
TOL02113	TOOL; RITCHIE 69373 COMBUSTIBLE GAS LEAK DETECTOR W/ CASE
TOL02022	TOOL; SENSING TIP FOR RITCHIE 69325 AND 69327 LEAK DETECTORS
SEN01228	SENSOR; REPLACEMENT SENSOR FOR RITCHIE 69373 LEAK DETECTOR
COV03480	COVER; BATTERY COVER FOR RITCHIE 69373 GAS LEAK DETECTOR
CAS01329	CASE; CARRYING CASE FOR RITCHIE 69373 GAS LEAK DETECTOR
TOL02076	TOOL; CARRYING HOLSTER FOR RITCHIE 69373 GAS LEAK DETECTOR

### YELLOW JACKET® Test Lead Sets



A variety of test lead sets and other related products.

#### Test Lead Set (#1) (upper right)

Set of two leads three feet in length. Clips with red and black insulators at each end. 120/240V - AC. 69532 & 69531 use 16-1 wire. 69530 & 69529 use 14-1 wire.

#### Test Lead Set (#2) (lower right)

A six-foot lead using number 16-2 wire and male plug one end. Clips with red and black insulators other end.

#### Test Lead Set (#3) (lower left)

A six-foot lead using number 16-2 wire and female plug one end. Two clips other end with red and black insulators. 120/240V - AC.

#### Adapter Cord - Test Connector (not pictured)

12-inch lead using number 14-3 wire and female plug one end. Three large clips other end with red, black and green insulators. 120/240V - AC.

#### Start Switch (upper left)

A six lead using number 16-2 wire and male plug one end. Clips with red, black and white insulators. Other end includes push button start switch. 120/240V - AC.

SERVICEFIRST ITEM NO	DESCRIPTION
TOL01436	TOOL; ADAPTOR CORD, TEST CONNECTOR, 15 AMP, LARGE CLIP SIZE
LED00356	LEAD; 6' BLACK AND RED TEST LEAD SET, 10 AMP WITH MEDIUM CLIPS ON ONE END, MALE PLUG ON OTHER
LED00357	LEAD; 6' BLACK AND RED TEST LEAD SET, 10 AMP WITH MEDIUM CLIPS ON ONE END, FEMALE PLUG ON OTHER
LED00372	LEAD; YELLOWJACKET RED AND BLACK TEST LEADS, 20 AMP, 3 FT LONG
LED00355	LEAD; 3' BLACK AND RED TEST LEAD SET, 10 AMP WITH MEDIUM CLIP
LED00354	LEAD; 3' BLACK AND RED TEST LEAD SET, 5 AMP WITH SMALL CLIP

## Refrigerant Handling

### YELLOW JACKET® Refillable Oil Injectors



Body and cap are rugged aluminum with "O" ring seal. Male fitting at one end with Schrader. A ball valve for control on other end with a short length of hose. Valve depressor in the female end. Saves time on many applications:

- Add oil to system
- Put oil in after changeout
- Add scanner fluorescent solution
- Add additives to system
- Refrigerant sampling
- 600 psi maximum working pressure

SERVICEFIRST ITEM NO	DESCRIPTION
TOL02834	TOOL; 1/2 OUNCE OIL INJECTOR
TOL01532	TOOL; 4 OZ. OIL INJECTOR, 1/4IN M FL X 1/4IN FE QUICK CONNECT
RNG01898	RING; O-RING; 1/2 OUNCE INJECTOR, 5 PACK

### YELLOW JACKET® Fluorescent Scanner Solutions



Different concentrations of YELLOW JACKET fluorescent solutions are available to match the refrigerant volume in a system. View MSDS Information. You also have the choice of bottles for the original system or the disposable pre-filled solution injector tubes for System II. Operating temperature: -40°F for all solutions. Alkylbenzene in alkylbenzene systems to -100°F.

SERVICEFIRST ITEM NO	DESCRIPTION
CHM00467	CHEMICAL; YELLOW JACKET 69451 FLUORESCENT SCANNER SOLUTION NO. 1 FOR MINERAL OIL SYSTEMS
CHM00468	CHEMICAL; YELLOW JACKET 69452 FLUORESCENT SCANNER SOLUTION NO. 2 FOR MINERAL OIL SYSTEMS
CHM00282	CHEMICAL; YELLOW JACKET FLUORESCENT SCANNER SOLUTION NO. 3 FOR MINERAL OIL SYSTEMS, 16 OZ. BOTTLE
CHM00189	CHEMICAL; YELLOW JACKET FLUORESCENT SCANNER SOLUTION, # 4, 2 OZ BOTTLE
CHM00229	CHEMICAL; FLUORESCENT SCANNER SOLUTION, ALKYBENZENE OIL SYSTEM, .03 OZ
CHM00230	CHEMICAL; FLUORESCENT SCANNER SOLUTION, ALKYBENZENE OIL SYSTEM, .5 OZ
CHM00231	CHEMICAL; FLUORESCENT SCANNER SOLUTION, ALKYBENZENE OIL SYSTEM, .5 OZ
CHM00294	CHEMICAL; (6 EA/CASE) FLUORESCENT SCANNER SOLUTION FOR ALKBENZENE, FOR SYSTEMS UP TO 25 LBS OF REFRIGERANT CHARGE
CHM00295	CHEMICAL; (1CASE = 6) FLUORESCENT SCANNER SOLUTION FOR MINERAL OIL, FOR SYSTEMS UP TO 2.9 LBS. OF REFRIGERANT CHARGE
CHM00176	CHEMICALS;(1CASE=6) SELF-INFUSING #1 INJECTING TUBE FOR USE W/FLUORESCENT LEAK SCANNER SYSTEM II, MINERAL OIL SYSTEM
CHM00175	CHEMICALS; (1CASE=6) SELF-INFUSING #2 INJECTING TUBE FOR USE W/FLUORESCENT LEAK SCANNER SYSTEM II, MINERAL OIL SYSTEM
CHM00673	CHEMICALS; SELF-INFUSING #3 INJECTING TUBE FOR USE W/FLUORESCENT LEAK SCANNER SYSTEM II, MINERAL OIL SYSTEM, UP TO 25 LBS
CHM00205	CHEMICAL; FLUORESCENT SCANNER SOLUTION FOR MINERAL OIL, FOR SYSTEMS UP TO 25 LBS OF REF.CHARGE, 6/CASE
CHM00227	CHEMICAL; FLUORESCENT SCANNER SOLUTION, ESTER OIL SYSTEM, .03 OZ
CHM00178	CHEMICAL; SELF-INFUSING #1 INJECTING TUBE FOR USE W/FLUORESCENT LEAK SCANNER SYSTEM II, ESTER OIL SYSTEM
CHM00177	CHEMICALS; SELF-INFUSING #2 INJECTING TUBE FOR USE W/FLUORESCENT LEAK SCANNER SYSTEM II, ESTER OIL SYSTEM
CHM00228	CHEMICAL; FLUORESCENT SCANNER SOLUTION, ESTER OIL SYSTEM, .5 OZ

Tools and Test Equipment

### YELLOW JACKET® Fluorescent Leak Scanner System II



With Scanner System II, you not only accurately pinpoint every leak at the speed of light, but also save prep time. High intensity UV lamp with filter produces almost pure UV to light up fluorescent particles in the solution for the best contrast and fastest, most visible results. Simply connect the disposable pre-filled solution injector tube directly to the AC&R system. There's no solution mess and you eliminate the cost and time of a separate infuser.

SERVICEFIRST ITEM NO	DESCRIPTION
TOL01455	TOOL; YELLOW JACKET FLURESCENT LEAK SCANNER SYSTEM II
TOL01490	TOOL; ORIGINAL YELLOW JACKET FLUORESCENT LEAK SCANNER W/CASE
BUL00848	BULB, REPLACEMENT UV WITH BALLAST, RITHICE 69466
LNS00848	LENS; REPLACEMENT UV FILTER LENS, RITCHE 69468
VAL07305	VALVE; INJECTOR TUBE BLEED VALVE FOR FLUORESCENT LEAK SCANNER

# Tools and Test Equipment

## Refrigerant Handling

### YELLOW JACKET® Cleaners



**Scan-Off UV Cleaner:** Water-based biodegradable spray cleans scanner solution from system.  
**Natural Degreaser:** Heavy-duty biodegradable degreaser removes scanner solution from system.  
**Hand Cleaner:** Cleans solution from hands.

SERVICEFIRST ITEM NO	DESCRIPTION
CHM00655	CHEMICAL; SPRAY-OFF SOLUTION, 8 OUNCE, RITCHIE 69696
CHM00186	CHEMICALS; NATURAL DEGREASER #14005, 16 OZ.
CHM00187	CHEMICALS; HAND CLEANER, 16 OZ.

### YELLOW JACKET® Universal A/C Disposable Injectors



Universal disposable 1 oz. applicator for fast economical dispensing. Universal dye for all common refrigerants and oils. Two 0.5 oz. applications for regular split systems or four 0.25 oz. applications for small appliances or auto A/C.

- Less costly and faster than many other methods
- One dye minimizes inventory
- No back-up refrigerant to move dye into system
- Patented

SERVICEFIRST ITEM NO	DESCRIPTION
CHM00471	CHEMICAL; RITCHIE 69700 UNIVERSAL A/C DISPOSABLE INJECTOR, 6-10Z INJECTORS
CHM00487	CHEMICAL; RITCHIE 69727 AC DYE INJECTORS

### YELLOW JACKET® Universal A/C Dye Injectors and Hose



Universal A/C dye injectors work in AC/R and auto A/C systems. Four 0.25 oz. applications of dye in each disposable tube make it economical, fast and clean. Hose features back flow check valve.

SERVICEFIRST ITEM NO	DESCRIPTION
CHM00485	CHEMICAL; TWO DYE INJECTORS FOR AC/R AND HOSE, RITCHIE 69702
HSE01474	HOSE; INJECTOR HOSE FOR UNIVERSAL A/C DYE INJECTORS

### YELLOW JACKET® Universal A/C Dye Solutions



Universal dye for A/C systems with PAG, mineral, alkyl benzene, or polyol ester lubricants.

- Field proven and sold worldwide
- Passed thermal stability tests
- One dye for AC/R systems
- Raw material QC assures dye uniformity

SERVICEFIRST ITEM NO	DESCRIPTION
CHM00488	CHEMICAL; RITCHIE 69708 UNIVERSAL A/C DYE SOLUTION, 1/2 OZ.
CHM00489	CHEMICAL; RITCHIE 69709 UNIVERSAL A/C DYE SOLUTION, 1 OZ.
CHM00490	CHEMICAL; RITCHIE 69710 UNIVERSAL A/C DYE SOLUTION, 2 OZ.
CHM00461	CHEMICAL; UNIVERSAL A/C DYE SOLUTION, 8 OZ., WORKS WITH MINERAL, ALKYL OR POLYOL ESTER OILS
CHM00491	CHEMICAL; RITCHIE 69713 UNIVERSAL A/C DYE SOLUTION, 8 OZ.

### YELLOW JACKET® Calibrated A/C Screw Injection



This 2 oz. injector is easy to refill and easy to operate. Calibrations are clearly marked on the injector. Connect to A/C low side and rotate handle. AC/R and auto models.

SERVICEFIRST ITEM NO	DESCRIPTION
TOL02175	TOOL; CALIBRATED A/C SCREW INJECTION, RITCHIE 69731



## Refrigerant Handling

### YELLOW JACKET® Fluorescent Solutions (for non-refrigerant)



Using your scanner system to help locate leaks in non-refrigeration and non-A/C applications adds value and versatility to your leak scanner system.

**Oil and fluid dye solution**

Find leaks in oil-based applications such as milling machines and hydraulics, transmissions, power steering, and more. 1 oz. per 2 gallons of oil.

- Pinpoint leaks in hydraulic systems such as cherry pickers
- Find seal and gasket leaks in engines, compressors and transmissions
- Locate leaks in gasoline or diesel fuel equipment, offset printing presses, injection-molding machines, and oil-cooled chillers

SERVICEFIRST ITEM NO	DESCRIPTION
CHM00650	SOLUTION; OIL AND FLUID DYE, 8 OUNCE, RITCHIE 69735
CHM00649	SOLUTION; COOLANT DYE, 8 OUNCE, RITCHIE 69739

### YELLOW JACKET® Universal Pure UV™ System



Universal is your best choice for all dye bases including mineral, AB, PAG, POE, engine, and lubricant. Newly patented technology combines special lens and reflector to emit only pure UV light (330-380 nm). Efficient in close quarters with power similar to A/C lamps. Filter glasses not required.

SERVICEFIRST ITEM NO	DESCRIPTION
TOL02114	TOOL; RITCHIE 69775 PURE UV LAMP KIT

### YELLOW JACKET® Micro LED UV Leak Detection Kits and High Intensity Lamps



Use these high visibility lamps to spot leaks on all A/C systems.

Individual reflectors surround each of five LEDs recessed for protection in the stainless steel head. 69790 features 3 UV and 2 blue bulbs for detection at greater distances. For greatest contrast with all fluorescent dyes, use 69791 with 5 UV bulbs. Compact 3.2-watt unit delivers 85 lumens for up to 250' effective range and up to 2-hour continuous non-dimming illumination (40 lumens for up to 175' and 5 hours with 2 watt unit).

SERVICEFIRST ITEM NO	DESCRIPTION
TOL02041	TOOL; RITCHIE 69788 MICRO LED KIT FOR AUTO
TOL02040	TOOL; RITCHIE 69789 MICRO LED KIT FOR AC&R
TOL02038	TOOL; RITCHIE 69790 MICRO LED, 3 UV 2 BLUE
TOL02560	TOOL; MICRO PURE UV LED LAMP, 5 UV BULBS, RITCHIE 69791
TOL02037	TOOL; RITCHIE 69792 MICRO LED, CLEAR BULBS
COV03612	COVER; RITCHIE 69793 REPLACEMENT POUCH FOR RITCHIE LED 69792
BAT00035	BATTERY; RITCHIE 69794 BATTERY, 2/PACK
LIT00939	LIGHT; 2 WATT LED FLASHLIGHT
LIT00940	LIGHT; 3.2 WATT LED FLASHLIGHT

### YELLOW JACKET® Max-Flow™ Combination Oil Pump



With the Max-Flow pump, you can smoothly pump oil into the compressor on the down stroke while the system is under pressure. This makes pumping easier with a positive stroke. Pumps 2.6 oz. or 78 mL per stroke.

- Remove oil for recovery and conversion
- Add oil to existing systems
- Pumps against 200 psi pressure
- Comfort-grip rubber handle
- Universal stopper automatically adjusts to all standard openings in 1, 2-1/2 and 5 gallon oil containers
- Suction transfer hose and fittings included. Connects to bottom of unit to pump oil from equipment quickly and efficiently
- Use with alkyl-benzene, ester-based, polyol ester, mineral, and synthetic oils

SERVICEFIRST ITEM NO	DESCRIPTION
FTG00900	FITTING; ADAPTER FITTING STRAIGHT, 1/8IN NPS X 1/4IN SAE
FTG00901	FITTING; ADAPTER FITTING 90 DEG, 1/8IN NPS X 1/4IN SAE
HSE01362	HOSE; 24IN SUCTION HOSE FOR RITCHIE 77940 PUMP, 1/4IN FITTING ONE END ONLY
TOL01454	TOOL; MAX-FLOW COMBINATION OIL PUMP
TOL01750	TOOL; AUTOMATIC STOPPER FOR OIL CONTAINER OPENINGS FOR RITCHIE 77940 PUMP
KIT07949	KIT; O-RING KIT FOR RITCHIE 77940 PUMP

# Tools and Test Equipment

## Refrigerant Handling

### YELLOW JACKET® Max-Flow™ Deluxe Oil Pump



Improved for added reliability and a more powerful stroke, the Max-Flow deluxe oil pump is a high capacity unit for quick charging. Pumps 3.8 oz. (112.38 mL) per stroke.

- Remove oil for recovery and conversion
- Add oil to existing systems
- Fits all size oil containers
- Foot stand base provides support and leverage while pumping against the high pressures of a running compressor
- Operating unit in reverse with adapter hose accessory removes oil from equipment quickly and efficiently
- Use with alkyl-benzene, ester-based, polyol ester, mineral, and synthetic oils
- Will pump against 250 psi pressure

SERVICEFIRST ITEM NO	DESCRIPTION
TOL01424	TOOL; MAX-FLOW DELUXE OIL PUMP
KIT07456	KIT; SEAL FOR 77930 OIL PUMP
HSE01223	HOSE; 1/2" FLEXIBLE SUCTION FOR OIL PUMP 77930, FITTING ONE END ONLY
HSE01552	HOSE; 3/8" FLEXIBLE DRAIN HOSE, 24" LONG

### YELLOW JACKET® Fuel Oil Test Kit



Complete kit to determine pump efficiency, cut-off, suction, etc. Also use to analyze or trouble shoot burner efficiency. Kit includes 2" gauge, 30" 0-150 lbs. scale, and 12" YELLOW JACKET hose with fittings. All gauges are 1/4" NPT.

SERVICEFIRST ITEM NO	DESCRIPTION
HSE01555	HOSE; 12" FUEL OIL KIT HOSE, 78011
TOL01425	TOOL; COMPLETE FUEL OIL GAUGE KIT

### YELLOW JACKET® Gas Pressure Test Kit



Easier to use than a manometer, this compact kit helps you accurately set manifold pressure for natural or L.P. gas.

- Sensitive diaphragm gauge calibrated in inches of water column
- Improved lamination strength of diaphragm (bellows) to brass plate withstands higher over-pressure
- Tube nipple for easy connection to system manifold
- Two gauge ranges available
- The unique single bellows on brass plate design replaces the double bellows for a stronger seal that resists greater over-pressure

SERVICEFIRST ITEM NO	DESCRIPTION
TOL01437	TOOL; Gas Pressure Test Kit, Complete, 0-10"W.C.
TOL02117	TOOL; DIGITAL ELECTRONIC MANOMETER
TOL01426	TOOL; COMPLETE GASS PRESSURE TEST KIT, 0-35" WC, LP OR NAT
HLD00309	CASE; RITCHIE 78063 GAS PRESSURE TEST KIT CARRYING CASE
GAG00929	GAUGE; LOW PRESSURE DIAPHRAGM GAUGE, 2-1/2IN, 0-35IN W.C., 1/4IN NPT

### YELLOW JACKET® Water-Type Manometer



Economical plastic tube manometer helps you set manifold pressure for natural or L.P. gas. Now goes to -2"W.C. for newer systems. Strong magnet on manometer holds it in convenient upright position. Includes tubing with fitting.

SERVICEFIRST ITEM NO	DESCRIPTION
TOL01541	TOOL; PLASTIC TUBE MANOMETER, 2IN - 0 - 7-1/2IN SCALE
TUB11122	TUBING; TUBING AND FITTING FOR RITCHIE 78070 MANOMETER
TOL01442	TOOL; PLASTIC TUBE MANOMETER, -2" -0- 15" SCALE

### YELLOW JACKET® Gas Test Gauges



1/2", 3/4" and 1" pipe - Easy-to-read gauge to test system pressure for leaks in new installations. Pressure drop on 2" gauge indicates leakage. 0-30 gauge is in 1/4 lb. increments and 0-15 is in 1/5 lb. increments to meet some local inspection regulations.

SERVICEFIRST ITEM NO	DESCRIPTION
GAG00947	GAUGE; GAS TEST GAUGE, 0-15 LB., 3/4 INCH END
TOL02100	TOOL; RITCHIE 78080 30 LB GAS TESTER, 3/4 NPT
TOL02849	TOOL; 30 LB GAS TESTER 1" NPT, 78085
TOL02850	TOOL; 60 LB GAS TESTER 3/4" NPT, 78087
GAG01042	GAUGE; GAS 3-1/2" TEST UNIT 0-100 1" END, RITCHIE 78089
GAG00983	GAUGE; GAS TEST, RITCHIE 78090, 0-100 LB, 3/4 INCH END
TOL01763	TOOL; 2-1/4" ROUND TELESCOPING INSPECTION MIRROR
GAG01041	GAUGE; GAS TEST, UNIT 0-100 LB GAUGE 1" END, RITCHIE 78095

## Refrigerant Handling

### YELLOW JACKET® Mirrors



Telescoping and stainless telescoping inspection mirrors.

#### Telescoping

All mirrors have telescoping feature. Some have clips for pockets and magnifying glass.

#### Stainless Telescoping

Check leaks in hard-to-see places. Stainless steel mirror on ball joint rotates 360°. Handle telescopes to 28".

SERVICEFIRST ITEM NO	DESCRIPTION
TOL02085	TOOL; RITCHIE 78098 ROUND TELESCOPING INSPECTION MIRROR
TOL01545	TOOL; STAINLESS STEEL FLAME INSPECTION MIRROR, ROUND, 28 IN TELESCOPIC HANDLE
TOL01546	TOOL; STAINLESS STEEL FLAME INSPECTION MIRROR, RECTANGULAR 28 IN TELESCOPIC HANDLE
TOL02033	TOOL; 2IN X 1-1/4IN TELESCOPING INSPECTION MIRROR, EXTENDS TO 28 INCHES
TOL01501	TOOL; 2IN X 3 1/2IN TELESCOPING MIRROR
TOL01547	TOOL; GLASS OVAL INSPECTION MIRROR 19 IN TELESCOPIC HANDLE
GLS00849	GLASS; REPLACEMENT GLASS/MIRROR FOR RITCHIE NO. 78103

### YELLOW JACKET® Original Pressure Control Hose



1/4" and 3/8" hex fittings assemblies.

1/4" hex fitting operates to 600 psi and 200°

3/8" hex fitting operates to 500 psi and 200°

SERVICEFIRST ITEM NO	DESCRIPTION
HSE01436	HOSE; PRESSURE CONTROL HOSE, 12", STR X 90 1/4" HEX FITTINGS
HSE01459	HOSE; PRESSURE CONTROL, 1/4" HEX FITTINGS ASSY, 18" L, STRAIGHT X 90 DEG, 78118
HSE01267	HOSE; 1/4" Pressure Control Hose w/Hex Fittings, 24", Str. X 90
HSE01268	HOSE; 1/4" Pressure Control Hose w/Hex Fittings, 30", Str. X 90
HSE01269	HOSE; 1/4" Pressure Control Hose w/Hex Fittings, 36", Str. X 90
HSE01301	HOSE; PRESSURE CONTROL HOSE, STR X 90 FITTINGS, 48IN
HSE01513	HOSE; PRESSURE CONTROL, 1/4" STR X STR, HEX FITTINGS, 12"L, RITCHIE 78212
HSE01514	HOSE; PRESSURE CONTROL, 1/4" STR X STR, HEX FITTINGS, 18"L, RITCHIE 78218
HSE01305	HOSE; PRESSURE CONTROL HOSE, 24"
HSE01515	HOSE; PRESSURE CONTROL, 1/4" STR X STR, HEX FITTINGS, 30"L, RITCHIE 78230
HSE01306	HOSE; PRESSURE CONTROL HOSE, 36"
HSE01307	HOSE; PRESSURE CONTROL HOSE, 48"

### YELLOW JACKET® High Pressure Control Hose

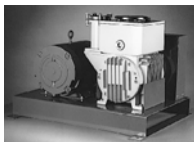


YELLOW JACKET pressure control hose is constructed of a thermoplastic polymer inner tube and cover to eliminate the vibration failures of copper capillary tube installations.

- The higher temperature ratings up to 266°F eliminate the failures caused by maximum loads on rubber hoses
- Polyester braid reinforcement with high tensile strength and high modulus withstand higher pressures
- Clear zinc chromate finish
- Yellow color makes hose easily visible inside system
- 3000 psi (207 bar) min. burst, 600 psi (41 bar) max. working pressure
- Hex style fittings with 1/4" SAE thread. Straight or 90° with copper gaskets
- Operating temperature -20° to 266°F (-28.8° to 130°C)

SERVICEFIRST ITEM NO	DESCRIPTION
HSE01490	HOSE; PRESSURE CONTROL, STR X 90 DEGREE PR CONTR X 24IN

### YELLOW JACKET® Belt Drive Vacuum Pumps



These 2-stage pumps are lab rated at 0.1 micron and feature large oil capacity, vented exhaust, 115-60 Hz voltage, standard belt guards, motor capacitors and automatic overload protection.

SERVICEFIRST ITEM NO	DESCRIPTION
PMP01699	PUMP; RITCHIE 80210 BELT DRIVE VACUUM PUMP
PMP01650	PUMP; RITCHIE 80220 BELT DRIVE VACUUM PUMP, 5.6 CFM, PUMPS TO .1 MICRON, 115V
PMP01563	PUMP; BELT DRIVE VACUUM, 10.5 CFM, 115V
PMP01652	PUMP; RITCHIE 80240 BELT DRIVE VACUUM PUMP

# Tools and Test Equipment

## Refrigerant Handling

### YELLOW JACKET® Quick Coupler Assembly

Oversized to increase flow and speed evacuation. Pull 25 microns and better on 36' length. Brass quick coupler.

SERVICEFIRST ITEM NO	DESCRIPTION
HSE01273	HOSE; STAINLESS STEEL CHARGING/VACUUM HOSE W/QUICK COUPLER, 1/4" STR X 1/4" 45 DEG ID. 36"
HSE01274	HOSE; STAINLESS STEEL CHARGING/ VACUUM HOSE W/QUICK COUPLER, 1/4" STR X 1/4" 45 DEG ID. 48"
HSE01275	HOSE; STAINLESS STEEL CHARGING/VACUUM HOSE W/QUICK COUPLER, 1/4" STR X 1/4" 45 DEG ID. 60"
HSE01276	HOSE; STAINLESS STEEL CHARGING/VACUUM HOSE W/QUICK COUPLER, 3/8" STR X 3/8" 45 DEG ID. 36"
HSE01277	HOSE; STAINLESS STEEL CHARGING/VACUUM HOSE W/QUICK COUPLER, 3/8" STR X 3/8" 45 DEG ID. 48"
HSE01278	HOSE; STAINLESS STEEL CHARGING/VACUUM HOSE W/QUICK COUPLER, 3/8" STR X 3/8" 45 DEG ID. 60"
HSE01411	HOSE; YELLOWJACKET 1/2 INCH ID METAL VACUUM/CHARGING HOSE, 60 INCH
HSE01507	HOSE; METAL, 1/4" SQCA-72, RITCHIE 81672
HSE01508	HOSE; METAL, 3/8" SQCA-72, RITCHIE 81772

### YELLOW JACKET® Sweat Fitting Assembly



Manufactured with copper sweat ends.

- Male sweat to fit inside mating tube
- Female sweat to fit outside mating tube

SERVICEFIRST ITEM NO	DESCRIPTION
HSE01562	HOSE; FLEX, 3/4 IN X 36 IN , MALE FL X MALE FL, BRASS FLARE ASSY, 82536
HSE01420	HOSE; YELLOW JACKET 84136 METAL HOSE, 1/4 MZ-36
HSE01469	HOSE; MALE SWEAT FITTING ASSY, 3/8" X 36", 85236
HSE01470	HOSE; SWEAT FITTING ASSEMBLY, MALE SWEAT X SWEAT COPPER, 3/4IN X 36IN

### YELLOW JACKET® SuperEvac™ Replacement Parts

Replacement parts for current models 1.5, 4, 6, 8, and 11 CFM SuperEvac Vacuum Pumps.

SERVICEFIRST ITEM NO	DESCRIPTION
SEL00923	SEAL; RITCHIE 93031 VACUUM PUMP SHAFT SEAL
LEG00147	LEG; UNIVERSAL PUMP LEG FOR RITCHIE VACUUM PUMPS
CPL00952	COUPLING, DRIVE COUPLING FOR 2,4,6,8,3,5,&7.5 CFM VACUUM PUMPS
SWT02559	SWITCH; ROCKER SWITCH FOR RITCHIE VACUUM PUMP MOTOR
GLS00900	GLASS; RITCHIE 93365 SIGHT GLASS FOR DIE CAST PUMP
DRN00007	DRAIN; OIL DRAIN FOR DIECAST VP, GAS BALLAST WITH O-RING, RITCHIE 93368
GKT03914	GASKET, OIL CASE GASKET FOR RITCHIE 2,4,6,8 CFM VACUUM PUMPS MADE AFTER 1998
HDL00988	HANDLE; RITCHIE VACUUM PUMP
CAP00904	CAP; OIL FILL CAP W/SEAL, FOR USE W/1.5,2,4,6,8 CFM VACUUM PUMPS
FTG01011	FITTING; NEW OIL FILL, 93391
FTG01012	FITTING; 1/2" MFL X 3/4" NPT, 93393
RNG01821	O-RING; FOR GAS BALLAST ON RITCHIE 1.5, 2,4, 6 AND 8 CFM VACUUM PUMPS
KIT09166	KIT; RITCHIE 93461 CARTRIDGE KIT WITH OIL COVER GASKET
KIT12366	KIT; VACUUM CARTRIDGE KIT WITH OIL COVER GASKET, 8 CFM, RITCHIE 93481
GKT04084	GASKET; 2004 OIL COVER GASKET
MOT11543	MOTOR; REPLACEMENT MOTOR FOR RITCHIE 6 CFM VACUUM PUMP, 115V
CRD00109	CORD; REPLACEMENT POWER CORD FOR RITCHIE VACUUM PUMPS, 93115
TOL02146	TOOL; 1/4" FLARE CAP & STRAP, 93394
TOL02147	TOOL; 1/2" FLARE CAP & STRAP, 93395
CAP01011	CAP; 3/8" FLARE CAP AND STRAP

### YELLOW JACKET® Vacuum Fitting Sealant



Use vacuum sealant around threads, through flared connections, face joints, wherever metal joins metal. Sets up quickly and remains flexible for easy disconnection. Seal down to 1 micron. 4 oz. can with brush applicator.

SERVICEFIRST ITEM NO	DESCRIPTION
SEL00874	SEAL; VACUUM FITTING SEALANT,
SEL00872	SEAL; VACUUM FITTING SEALANT, 4 OZ CAN WITH BRUSH APPLICATOR

Refrigerant Handling

YELLOW JACKET® Vacuum Pump Oil



YELLOW JACKET vacuum pump oil is specially refined and formulated for extremely low vapor pressure and high pump efficiency at all temperature conditions. This means that with proper maintenance you will get a continued return on your pump investment

SERVICEFIRST ITEM NO	DESCRIPTION
OIL00067	OIL; VACUUM, PINTS,
OIL00068	OIL; VACUUM, QUARTS
OIL00069	OIL; VACUUM, GALLONS, 4/CS

YELLOW JACKET® SuperEvac™ 1.5 CFM Pump



A more compact 2-stage 1.5 CFM vacuum pump for the smaller jobs such as appliance and small residential. Designed and built to the same quality specifications as the larger YELLOW JACKET pumps.

SERVICEFIRST ITEM NO	DESCRIPTION
PMP01516	PUMP; VACUUM, 115V, 1.5 CFM, 2 STAGE

YELLOW JACKET® Oil Exhaust Filter



Screws onto the pump exhaust to eliminate oil mist. Use on 1.5, 2, 4, 6, 8 CFM pumps as well as new 11 CFM pump.

SERVICEFIRST ITEM NO	DESCRIPTION
FLR04604	FILTER; EXHAUST OIL FILTER FOR RITCHIE 2, 4, 6, & 8 CFM VACUUM PUMPS
ELM03537	ELEMENT; 93387 REPLACEMENT ELEMENT FOR RITCHIE 1.5, 2, 4, 6 AND 8 CFM VACUUM PUMPS

YELLOW JACKET® SuperEvac™ 4, 6, 8, 11 CFM Pumps



Each YELLOW JACKET pump is thoroughly “run in” and tested to insure that it meets or exceeds our quality specifications - and our customer's expectations.

SERVICEFIRST ITEM NO	DESCRIPTION
PMP01517	PUMP; VACUUM, 115V, 4 CFM, 2-STAGE
PMP01720	PUMP; RITCHIE 93541 SUPEREVAC 95 L/M
PMP01721	PUMP, RITCHIE 93543 CE 95 L/M, 230V/50HZ
PMP01518	PUMP; VACUUM, 115V, 6 CFM, 2-STAGE
PMP01722	PUMP; RITCHIE 93562 SUPEREVAC 142 L/M
PMP01723	PUMP; RITCHIE 93563 CE 142 L/M, 230V/50HZ
PMP01519	PUMP; VACUUM, 115V, 8 CFM, 2-STAGE
PMP01744	PUMP; SUPEREVAC PUMP, 190 L/M, 220 VOLTS
PMP01748	PUMP; 93583 CE 190 L/M PUMP 230V/50HZ
PMP01773	PUMP; SUPEREVAC PUMP 11 CFM, 93590

YELLOW JACKET® Newer style large vacuum pumps

SERVICEFIRST ITEM NO	DESCRIPTION
HSE01263	HOSE; 1IN VACUUM TUBE W/1/2IN WALL CLAMPS OVER 1IN MALE TUBE FITTING, 5FT LONG
HSE01264	HOSE; 1IN VACUUM TUBE W/1/2IN WALL CLAMPS OVER 1IN MALE TUBE FITTING, 10 FT. LONG
ELN00875	ELIMINATOR; SMOKE ELIMINATOR ASSEMBLY
GKT04117	GASKET; 12-18-24 CFM COVER 93810

YELLOW JACKET® 5/16" for Special R-410A Applications



Compact ball valves are available with 5/16" flares for R-410A applications where 5/16" system ports are used. UL recognized assembly to 4000 psi (276 bar) min. burst, 800 psi (55 bar) max. working pressure

SERVICEFIRST ITEM NO	DESCRIPTION
VAL08779	VALVE; FULL CONTROL SHUTOFF VALVE, 5/16" COMPACT BALL VALVE, 5/16" FFL X 1/4" MF, 93825

# Tools and Test Equipment

## Refrigerant Handling

### YELLOW JACKET® Full Control Ball Valves for Vacuum/Charging



When building your own charging/vacuum system, these straight flow-through valves connect hoses and provide full-flow capacity. No angles to cause restrictions and pressure drops.

SERVICEFIRST ITEM NO	DESCRIPTION
VAL07434	VALVE; FULL CONTROL BALL VALVE FOR VACUUM/CHARGING, M FL X M FL, ACME 1/2"
VAL07200	VALVE; 1/4 INCH FULL CONTROL BALL VALVE, M. FL. X M. FL.
VAL07320	VALVE; FULL CONTROL VACUUM/CHARGING VALVE, 3/8IN SAE, M FL X M FL
VAL07321	VALVE; FULL CONTROL VACUUM/CHARGING 1/2IN SAE, M FL X M FL
VAL08493	VALVE; FULL CONTROL BALL VALVE FOR VACUUM/CHARGING, ACME 1/2", M FLARE X FEMALE FLARE, RITCHIE 93840
VAL07199	VALVE; FULL CONTROL BALL VALVE FOR VACUUM/CHARGING, 1/4" SAE, M.FL X FE. FL.
VAL07203	VALVE; FULL CONTROL BALL, 3/8 IN. SAE, M.FL X FE.FL
VAL07319	VALVE; FULL CONTROL VACUUM/CHARGING VALVE, 1/2IN SAE, M FL X FE FL

### YELLOW JACKET® SuperEvac™ Evacuation Manifolds



SuperEvac 1/2" manifolds are engineered as system components for the SuperEvac pumps to help decrease vacuum time by over 50% and improve micron readings. Mounts with 1/2" or 3/8" Female flare quick coupler and provides easy connections for two 3/8" vacuum hoses.

SERVICEFIRST ITEM NO	DESCRIPTION
MFD00945	MANIFOLD; SuperEvac Evacuation Manifold w/ 1/4" Schrader
MFD00967	MANIFOLD; SUPERVAC EVACUATION MANIFOLD, SINGLE VALVE WITH LOW SIDE GAUGE
MFD00954	MANIFOLD; SUPEREVAC EVACUATION MANIFOLD, TWO VALVES WITH LOW SIDE GAUGE

### YELLOW JACKET® SuperEvac™ Evacuation Systems I, II, and III



All system components are available separately, but system pricing makes I, II and III attractive buys. All systems include a 2-valve manifold and two 3/8" vacuum hoses for a fast vacuum. Vacuum valves, included with all systems, allow core removal and system isolation. This combination reduces vacuum time by over 60% compared to using a regular 1/4" manifold and evacuating through only one side. System II adds 69075 electronic gauge and service valve wrench to the basic System I. System III adds a 6 CFM SuperEvac pump to System II.

SERVICEFIRST ITEM NO	DESCRIPTION
TOL01491	TOOL; SUPEREVAC SYSTEM I
TOL01906	TOOL; RITCHIE SUPEREVAC SYSTEM II EVACUATION SYSTEM
KIT07883	KIT; RITCHIE SUPEREVAC III, INCLUDES 6CFM VACUUM PUMP, ELECTRONIC GAUGE, SERVICE WRENCH AND MANIFOLD

### YELLOW JACKET® Recovery Cylinders



These gray/yellow 30 and 50 lb. cylinders feature "Y" valve for liquid/vapor, 400 psi rating, and 3/4" plug for a float switch.

SERVICEFIRST ITEM NO	DESCRIPTION
TNK00867	TANK; 30 LB. R-410A REFRIGERANT CYLINDAR, 400 PSI
CYL00198	CYLINDER; 50 LB, R-410A REFRIGERANT, 400 PSI
VAL07425	VALVE; "Y" VALVE FOR 30 LB REFRIGERANT CYLINDER
SWT02546	SWITCH; LIQUID LEVEL SWITCH FOR 30 AND 50 LB. WORTHINGTON AND MANCHESTER CYLINDERS ONLY WITH 3-PIN BRAD HARRISON CONNECTION
SWT02547	SWITCH; LIQUID LEVEL SWITCH FOR 30 AND 50 LB. AMTROL CYLINDERS ONLY WITH 3-PIN BRAD HARRISON CONNECTION
VAL07426	VALVE; "Y" VALVE FOR 50 LB REFRIGERANT CYLINDER
CYL00199	CYLINDER; 30 LB. R-410A REFRIGERANT CYLINDER WITH FLOAT SWITCH, 400 PSI
CYL00200	CYLINDER; 50 LB. R-410A REFRIGERANT CYLINDER WITH FLOAT SWITCH, 400 PSI

### YELLOW JACKET® Recovery Burnout Filter



High capacity inline filter drier removes moisture and oil breakdown products, as well as acid from burnt out systems. Attaches directly to refrigerant recovery system with a 1/4" female and a 1/4" male connection. UL and CSA listed.

SERVICEFIRST ITEM NO	DESCRIPTION
DHY01038	DRIER; BURNOUT FILTER FOR RITCHIE RECOVERY UNITS, 1/4" MALE AND 1/4 FE CONNECTIONS

## Refrigerant Handling

### YELLOW JACKET® R 100 Series



This is the high speed system for large quantity refrigerant transfer, junkyard transfer, supermarket rack systems, and other larger commercial jobs.

- Fast twin cylinder 1 hp oil-less compressor recovers direct liquid at up to 5 lbs/min. or 0.6 lbs./min. vapor per ARI 740-95
- High capacity 6" muffin fan and oversized 3/8" slit fin condenser with 3-pass path for cool running in high ambient temperatures
- Tank overfill sensor
- Built-in reusable mesh particulate filter to protect from dirty systems
- "On-the-fly" purge with simple turn of a knob to remove residual refrigerant and help prevent cross contamination
- Designed and manufactured in USA

SERVICEFIRST ITEM NO	DESCRIPTION
TOL01451	TOOL; RECOVER-X R100AP REFRIGERANT RECOVERY UNIT, 115V
RLY03050	RELAY; RITCHIE 95233 COMPRESSOR START RELAY FOR RECOVERY UNIT 95100
BRD03201	BOARD; RITCHIE 95253 PC BOARD FOR RECOVERY UNITY 95100

### YELLOW JACKET® Replacement parts for R50, R60, R70 Recovery Machines

SERVICEFIRST ITEM NO	DESCRIPTION
KIT13725	KIT; COMPRESSOR SERVICE KIT FOR R50/60
KIT09643	KIT; COMPRESSOR SERVICE KIT FOR R50/R50A, RITCHIE 95123
SRN00839	SCREEN; RITCHIE 95134 FILTER SCREENS FOR R30A, 50A AND 70A, PACK OF 4
SRN00824	SCREEN; R60 REPLACEMENT SCREEN (3 PAK)
FLR06601	FILTER; PARTICULATE PRE-FILTER SCREEN FOR R60 AND R60A SERIES RECOVERY SYSTEMS, 95139, FOUR PACK
SRN00840	SCREEN; RITCHIE 95141 FILTER SCREENS FOR R30, 50 AND 70, PACK OF 4
BKR01674	BREAKER; 12 AMP CIRCUIT BREAKER FOR RITCHIE RECOVERY MACHINE
SWT02502	SWITCH, HIGH PRESSURE SWITCH FOR RITCHIE RECOVERY UNITS
VAL07366	VALVE, 3-WAY DISCHARGE VALVE ASSEMBLY FOR RITCHIE RECOVERY UNIT
SWT03044	SWITCH; HI PRESSURE SWITCH

### YELLOW JACKET® RecoverX



This economical recovery unit builds on the performance and success of the original YELLOW JACKET® RecoverX Recovery Machine. Over 50,000 sold.

- Maximum air flow and cool running even in high ambient temperatures. High efficiency fan keeps air moving across condenser
- High strength HDPE case for light weight and rugged use. Rounded corners help protect you and your customers from nicks and scrapes
- Whisper-quiet 1/6 hp oil-filled reciprocating hermetic compressor charged with polyol ester oil. Oil drain port for easy maintenance
- Controls and gauges inset for protection and angled for easy access and viewing
- High pressure switch with automatic reset and external circuit breaker
- Designed and manufactured in USA

SERVICEFIRST ITEM NO	DESCRIPTION
TOL02911	TOOL; RECOVERX 95700 RECOVERY MACHINE

# Tools and Test Equipment

## Refrigerant Handling

### YELLOW JACKET® RecoverXLT



Start with the features of the RecoverX and add fully automatic operation for every refrigerant.

- Single valve control for easy changeover from liquid to vapor to purge (patent pending)
- CPR valve regulates refrigerant to the compressor. Eliminates the need for the technician to throttle the suction valve
- Advanced 1/2 hp, 3425 rpm oil-less compressor with precision valves manufactured in an ISO-9001 facility
- Recovers refrigerant and shuts off when unit reaches 15" of vacuum. Unit will automatically restart if system pressure rises
- LED signals recovery completion
- High efficiency fan keeps air moving across condenser for cool running even in hot weather
- Senses back pressure from tank and shuts off automatically at 520 psi for safety
- Single high pressure safety switch
- Reusable mesh particulate filter inserts into suction port for protection. Simple cleaning eliminates replacement due to clogging
- Color-coded hook-ups for proper use
- "On-the-fly" purge with simple turn of a knob to remove residual refrigerant and help prevent cross contamination
- Designed and manufactured in USA
- Tested by UL to ARI 740-98

SERVICEFIRST ITEM NO	DESCRIPTION
TOL02858	TOOL; 95760 RECOVERXLT UNIT 115/60
TOL02866	TOOL; RECOVERYXLT UNIT WITH TOS
HSE00296	HOSE; 15 FT. SINGLE VACUUM (NO FITTINGS, W/3/4 IN. NPTE ENDS)
HSE00297	HOSE; 25 FT. SINGLE VACUUM (NO FITTINGS, W/3/4 IN. NPTE ENDS)
HSE00308	HOSE; 4 FOOT SINGLE VACUUM (NO FITTINGS, W/3/4 IN. NPTE ENDS)
HSE00309	HOSE; 6 FOOT SINGLE VACUUM (NO FITTINGS, W/3/4 IN. NPTE ENDS)
TOL02060	TOOL; RITCHIE 69393 REDIBEAM UV SYSTEM, GLASSES, BATTERY, CHARGER AND CASE
GLS00896	GLASS; RITCHIE 69415 FLUORESCENT VIEWING GLASSES
CHM00201	CHEMICAL; FLUORESCENT LUBRICATING FLUID SOLUTION, 16 OZ. BOTTLE
TOL01828	TOOL; COMPACT PISTOL-GRIP UV LEAK SCANNER SYSTEM WITH LAMP AND GLASSES
TOL01833	TOOL, RITCHIE COMPACT UV SYSTEM WITH LAMP, TRANSFORMER AND CASE
TOL02027	TOOL; RITCHIE 69752 COMPACT UV LEAK SCANNER SYSTEM
HSE01396	HOSE; YELLOWJACKET STAINLESS STEEL HOSE, 1/4 INCH X 18 INCH, MALE SWEAT FITTINGS
HSE01395	HOSE; YELLOW JACKET STAINLESS STEEL HOSE, 1/4 INCH X 18 INCH, FEMALE SWEAT FITTINGS
HSE01364	HOSE; 3/8 HEAVY DUTY PLUS II CHARGING/HI-VACUUM HOSE, 96"
MFD00935	MANIFOLD; 41213S, 2-VALVE, 36" R&B, 60" Y HOSES
RNG01691	RING-O; FOR 1/4 " HOSE & QUICK COUPLER, 10-PACK
HSE01128	HOSE; 1/4" X 20-FT, NO ISOLATION
HSE01130	HOSE; 3/8" X 10-FT, NO ISOLATION
HSE01132	HOSE; 3/8" X 20-FT, NO ISOLATION
HSE01136	HOSE; 1/2" X 20-FT, NO ISOLATION
TOL01847	TOOL; YELLOW JACKET 60403 TUBING EXPANDER/SWAGER, 1/2, 5/8, 7/8, 1-1/8 HEADS
KIT07481	KIT; REPLACEMENT 0-5IN SCALE FOR 69035 MANOMETER
CHM00486	CHEMICAL; RITCHIE 69721 AC DYE INJECTORS
SEN01227	SENSOR; RITCHIE 69370 COMBUSTIBLE GAS LEAK DETECTOR
CPL01005	COUPLING; HI SIDE AUTOMOTIVE R-134A A/C COUPLER, 3/8 M FL
CPL01006	COUPLING; LO SIDE AUTOMOTIVE R-134A A/C COUPLER, 3/8 M FL
MFD00922	MANIFOLD; 4-VALVE BRUTE WITH GAUGES, R134a, 404A, 507, NO HOSES
GAG00885	GAUGE; CHROME COMPOUND, 30"-0-120 PSI, R-12,22,502
TOL01538	TOOL; R70A RECOVERY UNIT W/TOS
TOL02111	TOOL; RITCHIE R30A REFRIGERANT RECOVERY MACHINE, HERMETIC COMPRESSOR
TOL01393	TOOL; REF. RECOVERY, 1/3 HP OIL-LESS COMPRESSOR, R50 SERIES
TOL01392	TOOL; REF. RECOVERY, RECOVER-XR30, 115/60
TOL02954	TOOL; RECOVER-XLS UNIT 115/60, 95770



**Klein Tools**

**Adjustable Wrenches**

**Adjustable Wrenches — Extra Capacity**



**Additional Features:**

- Extra capacity allows use of a smaller size wrench to handle bigger jobs, especially in confined spaces.
- Forged heat-treated alloy steel for maximum strength and lite weight.
- High polish chrome finish.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Capacity	Length	Weight (lbs)
TOL02354	D507-6	15/16" (23 mm)	6-3/8" (162 mm)	0.27
TOL02355	D507-8	1-1/8" (28 mm)	8-3/8" (213 mm)	0.62
TOL02356	D507-10	1-5/16" (33 mm)	10-3/8" (264 mm)	1
TOL02357	D507-12	1-1/2" (38 mm)	12-3/8" (315 mm)	1.54

**Adjustable Wrenches — Standard Capacity, Plastic-Dipped Handles**



**Additional Features:**

- Plastic-dipped handles for added comfort.
- Forged heat-treated alloy steel for maximum strength and lite weight.
- High polish chrome finish.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Capacity	Handle Type	Length
TOL02353	D506-4	1/2" (12 mm)	dovetail	4-1/2" (114 mm)
TOL02431	D506-6	3/4" (19 mm)	dovetail	6-3/8" (162 mm)
TOL02432	D506-8	15/16" (23 mm)	dovetail	8-3/8" (213 mm)
TOL02433	D506-10	1-1/8" (28 mm)	dovetail	10-3/8" (264 mm)
TOL02434	D506-12	1-5/16" (33 mm)	dovetail	12-3/8" (315 mm)

**BBQ Tools**



- Flip your food with the perfect BBQ accessory.
- The stainless steel construction provides rust resistance.
- Cushion-Grip handle resists slippage and provides the comfort needed for frequent use.
- The 17" (432 mm) length makes it ideal for flipping your burgers or hot dogs.
- A Tip-Ident® on the end of the handles allows for quick identification in crowded drawers.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Weight (lbs)
TOL02485	98222	0.15

**Beverage Tool**



- Suitable for users from the apprentice to the demanding professional.
- Cushion-Grip handle resists slippage and provides the comfort needed for frequent use.
- Bottle cap Tip-Ident®, allows for quick identification in tool pouches or crowded drawers.
- Professionally designed and rigorously tested by an expert team to handle both foreign and domestic applications.
- High-quality stainless steel construction.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Weight (lbs)
TOL02484	98002BT	0.15

**Cable Cutters**

**Ratcheting Cable Cutter**



- Cleanly cuts copper up to 400 MCM, as well as aluminum and multiconductor cables up to 600 MCM.
- Unique ratchet action holds cable tight and allows rapid, straight cuts with minimum effort.
- Hold-open spring speeds cutting action.
- Quick-release lever opens blade at anytime during operation.
- Large, finger-formed handles have limit guards and plastic covering for comfortable, non-slip grip.
- Compact, lightweight tool can be locked in closed position for pouch carrying.
- Not designed for cutting steel or ACSR.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Overall Length	Maximum Cable Cutting Capacity	Weight (lbs)
TOL02497	63060	10" (255 mm)	400 copper, 600 aluminum and multi-conductor	1.7

# Tools and Test Equipment

## Klein Tools

### Chisels

#### Cold Chisels

- Heat-treated, high-carbon steel for necessary hardness and durability.
- Cuts, shapes, and removes metal.
- Corrosion resistant black finish.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Blade Width	Overall Length	Weight (lbs)
TOL02473	66140	3/8" (10 mm)	5" (127 mm)	0.1
TOL02474	66142	1/2" (13 mm)	6" (152 mm)	0.2
TOL02476	66144	3/4" (19 mm)	7-1/2" (191 mm)	0.6
TOL02478	66146	1" (25 mm)	8-1/2" (216 mm)	1.31

## Combition Wire-Stripping and Cutting Tools

### Long-Nose Multi-Purpose Tool



- Easily cuts and strips wire.
- Narrow, serrated pliers nose to pull, loop, and bend wire.
- Long, curved cutting blade.
- Cutters and strippers are in front of the pivot for maximum ease-of-use in reaching into tight places.
- Crimps insulated and non-insulated terminals and 7 to 8 mm ignition terminals.
- Cleanly shears bolts.
- Plastic-covered cushioned handles for comfort.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Strips and Cuts	Bolt Sizes	Weight (lbs)
TOL02279	1010	10 – 22 AWG (4.0 mm2 – .34 mm2)	4-40, 5-40, 6-32, 8-32, 10-32, 10-24	0.43

### Multi-Purpose 6-in-1 Tool



- Cleanly shears bolts.
- Easily cuts and strips wire.
- Measures stud sizes.
- Gauges wire sizes.
- Crimps insulated terminals.
- Plastic-covered cushioned handles for comfort.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Strips and Cuts	Bolt Sizes	Weight (lbs)
TOL02463	1000	10 – 22 AWG (4.0 mm2 – .34 mm2)	4-40, 6-32, 8-32, 10-24, 10-32	0.44

### Multi-Purpose Electrician's Tool — 8-22 AWG



- Two wire cutters—one at tip, the other halfway back near stripping holes—double the utility of this tool.
- Crimps 7-8 mm insulated and non-insulated terminals, lugs and splices.
- Cuts and strips 8-22 AWG solid and 10-26 AWG stranded wire.
- Cleanly shears bolts.
- Pivot nut adjusts tension.
- Left- and right-hand wire-looping holes near tip.
- Full-sized, plastic-covered cushioned handles for comfort.
- Wire cutter in nose and below pivot.
- Crimping dies color-coded for easy identification.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Strips and Cuts	Bolt Sizes	Weight (lbs)
TOL02278	1001	10 – 26 AWG stranded (4.0 mm2 – .14 mm2) 8 – 22 AWG solid (6.0 mm2 mm2 – .34 mm2)	4-40, 6-32, 8-32, 10-24, 10-32	0.47

## Combition Wrenches

### 14-Piece Combition Wrench Set



SERVICEFIRST ITEM NO	VENDOR ITEM NO	Weight (lbs)
TOL02487	68406	9.75

**Klein Tools**

**Combition Wrenches**

**7-Piece Combition Wrench Set**



SERVICEFIRST ITEM NO	VENDOR ITEM NO	Weight (lbs)
TOL02420	68400	1.23

**9-Piece Combition Wrench Set**



SERVICEFIRST ITEM NO	VENDOR ITEM NO	Weight (lbs)
TOL02446	68402	2.07

**Combition Wrenches**



SERVICEFIRST ITEM NO	VENDOR ITEM NO	Size	Length	Box End Point	Weight (lbs)
TOL02543	68413	7/16"	6-5/8"	12	0.14
TOL02425	68414	1/2"	7-1/8"	12	0.18
TOL02427	68416	5/8"	8-1/2"	12	0.28

**Conduit Tools and Fish Tapes**

**Speedway® Flat-Steel Fish Tapes - Grip-It® Handle, 60'**

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Color Code	Reel Diameter	Tape Length	Weight (lbs)
TOL02512	50206	black	12" (305mm)	60' (18mm)	3.44

**Connecting Bars**

**Round Bars**

- Provides extra leverage when positioning steel members and aligning bolt holes.
- Forged fit-up bar is pointed on one end.
- Chisel-end is at a 15° angle to give even greater leverage.



SERVICEFIRST ITEM NO	VENDOR ITEM NO	Weight (lbs)	Length	Diameter
TOL02483	3245	3.3	30" (762 mm)	3/4" (19 mm)

**Construction Wrenches**

**Adjustable-Head Construction Wrench**



- Versatile wrench fits nuts and bolts to 1-1/2" (38 mm).
- Eliminates the need for carrying several fixed-size wrenches.
- Forged from select alloy steel with continuous-taper handle for aligning bolt and/or rivet holes.
- Industrial black finish for corrosion resistance.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Weight (lbs)	Maximum Size Capacity	Length
TOL02513	3239	2.3	1-1/2" (38 mm)	15" (381 mm)

**Crimping Tool**

**Crimping/Cutting Tool – Non-Insulated/Insulated Connectors**



**Additional Features:**

- Designed to crimp insulated and non-insulated 10 to 22 AWG solderless terminals and connectors.
- Tapered nose design for working in confined spaces.
- Contoured thumb area for additional comfort and positive feel.
- Specially hardened cutter.
- Hot-riveted joint ensures smooth action and no handle wobble.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Overall Length	Weight (lbs)
TOL02585	J1005	9-3/4" (248 mm)	0.84

# Tools and Test Equipment

## Klein Tools

### Crimping Tools

#### Crimping/Cutting Tool — Non-Insulated Termils



- Designed for crimping non-insulated solderless terminals and connectors.
- Specially hardened wire cutter in nose.
- Tapered nose for working in confined spaces.
- Plastic-dipped cushioned handles for comfort.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Handle Color	Crimps	Weight (lbs)
TOL02281	1006	black	10 – 22 AWG	0.85

#### Crimping/Cutting Tools — Non-Insulated/Insulated Termils



- Crimping die marked for insulated and non-insulated solderless terminals and connectors.
- Tapered nose design for working in confined spaces.
- Specially hardened wire cutter in nose.
- Hot-riveted joint for smooth action and no handle wobble.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Handle Color	Crimps	Weight (lbs)
TOL02280	1005	red	10 – 22 AWG	0.8

#### Curved Long-Nose Pliers



##### Additional Features:

- 70° bent nose for maximum work visibility in confined areas.
- Knurled jaws for sure wrapping and looping.
- Curved handles provide greater tool control.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Length	Jaw Width	Thickness	Point Thickness	Weight (lbs)
TOL02515	D302-6	1-1/2" (38 mm)	11/16" (18 mm)	3/8" (10 mm)	3/32" (2 mm)	0.3

#### Cushion-Grip Nut Driver

##### Cushion-Grip Hollow-Shank Nut Drivers — 3"-Shanks



##### Additional Features:

- Standard length for most applications.
- Fits over long bits and studs

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Shank Length	Weight (lbs)
TOL02318	630-3/16	3" (76 mm)	0.2
TOL02319	630-1/4	3" (76 mm)	0.2
TOL02320	630-5/16	3" (76 mm)	0.2
TOL02321	630-11/32	3" (76 mm)	0.2
TOL02322	630-3/8	3" (76 mm)	0.2
TOL02323	630-7/16	3" (76 mm)	0.25
TOL02324	630-1/2	3" (76 mm)	0.25

##### Cushion-Grip Stubby Nut Drivers — 1-1/2"-Shanks

###### Stubby Nut Driver Set



##### Additional Features:

- Full hollow shank for long bolts or studs.
- Stubby Nut Drivers allow for work in close quarters.
- Meets or exceeds applicable ASME / ANSI specifications.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Overall Length	Shank Length	Weight (lbs)	Description
TOL02333	610	3-1/2" (89 mm)	1-1/2" (38 mm)	0.2	2-piece nut driver

**Klein Tools**

**Cushion-Grip Nut Driver**

**Magnetic Tip Nut Drivers – Hollow Shanks**



**Additional Features:**

- Patent pending hollow shaft design with Rare Earth magnetic tip.
- Hollow shaft facilitates work on bolt applications.
- Cushion-Grip handle allows for greater torque and comfort.
- Handle end is color-coded for easy identification.
- Internal flanges provide solid, twist-resistant shank anchor.
- Chrome-plated shaft helps prevent corrosion.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Shank Length	Handle End Color	Weight (lbs)
TOL02453	610M	1-1/2" (38 mm)	red & yellow	0.2
TOL02468	630-1/4M	3" (76 mm)	red	0.2
TOL02469	630-5/16M	3" (76 mm)	yellow	0.2
TOL02454	630M	3" (76 mm)	red & yellow	0.4
TOL02471	646-5/16M	6" (152 mm)	yellow	0.25
TOL02455	646M	6" (152 mm)	red & yellow	0.5

**Cushion-Grip Nut Driver Sets**

**7-Piece Cushion-Grip Nut Driver Set — 3"-Shanks**



**Additional Feature:**

- General-purpose selection of the most frequently used nut drivers.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Weight (lbs)
TOL02317	631	1.5

**7-Piece Cushion-Grip Nut Driver Set — 6"-Shanks**



**Additional Feature:**

- General-purpose selection of the most frequently used nut drivers.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Weight (lbs)
TOL02325	647	1.55

**Cushion-Grip Nut Driver-s**

**Cushion-Grip Hollow-Shank Nut Drivers — 6"-Shanks**



**Additional Features:**

- Reaches into deep recesses.
- Fits over extra-long bolts and studs.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Shank Length	Weight (lbs)
TOL02326	646-3/16	6" (152 mm)	0.25
TOL02327	646-1/4	6" (152 mm)	0.25
TOL02328	646-5/16	6" (152 mm)	0.25
TOL02329	646-11/32	6" (152 mm)	0.25
TOL02330	646-3/8	6" (152 mm)	0.3
TOL02331	646-7/16	6" (152 mm)	0.35
TOL02332	646-1/2	6" (152 mm)	0.35

**Cushion-Grip Screwdriver Sets**

**5-Piece Cushion-Grip Screwdriver Set**



**Additional Features:**

- General-purpose selection of the most frequently used screwdrivers.
- Includes two cabinet-tip, one Phillips-tip, and two keystone-tip screwdrivers.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Weight (lbs)
TOL02282	85075	1.3

**7-Piece Cushion-Grip Screwdriver Set**



**Additional Features:**

- General-purpose selection of the most frequently used screwdrivers.
- Includes: three cabinet-tip, two Phillips-tip, and two keystone-tip styles.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Weight (lbs)
TOL02288	85076	1.5

# Tools and Test Equipment

## Klein Tools

### Cushion-Grip Screwdriver Sets

#### 7-Piece Multiple-Application Screwdriver Set



**Additional Features:**

- Specialty set for a wide variety of applications.
- Includes: two cabinet-tip, one Phillips-tip, two keystone-tip, one rotary, and one screw-holding screwdriver.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Weight (lbs)
TOL02576	85077	1.65

#### Keystone-Tip Screwdrivers – Heavy-Duty Square-Shanks

**Additional Features:**

- Heavy-duty square shank for wrench-assisted turning.
- Bolster reinforces shank for hard use.
- Designed for the most demanding uses.



SERVICEFIRST ITEM NO	VENDOR ITEM NO	Shank		
		Tip Width	Length	Weight (lbs)
TOL02283	600-4	1/4" (6 mm)	4" (102 mm)	0.25
TOL02292	600-6	5/16" (8 mm)	6" (152 mm)	0.4
TOL02539	600-8	3/8" (10 mm)	8" (203 mm)	0.65

### Cushion-Grip Screwdrivers

#### Cabinet-Tip Screwdrivers – Round-Shanks

##### Heavy-Duty Shanks

**Additional Feature:**

- Narrow cabinet tip permits blade access where space is limited.



SERVICEFIRST ITEM NO	VENDOR ITEM NO	Shank		
		Tip Width	Length	Weight (lbs)
TOL02290	605-4	1/4" (6 mm)	4" (102 mm)	0.25
TOL02287	605-6	1/4" (6 mm)	6" (152 mm)	0.3

**Additional Feature:**

- Narrow cabinet tip permits blade access where space is limited.



SERVICEFIRST ITEM NO	VENDOR ITEM NO	Shank		
		Tip Width	Length	Weight (lbs)
TOL02294	601-4	3/16" (5 mm)	4" (102 mm)	0.15
TOL02284	601-6	3/16" (5 mm)	6" (152 mm)	0.15
TOL02295	601-8	3/16" (5 mm)	8" (203 mm)	0.2

#### Keystone-Tip Screwdrivers – Heavy-Duty Round-Shanks

**Additional Features:**

- Built to handle the tough jobs with ease.
- Hex bolster reinforces shank for hard use and allows wrench assisted turning.



SERVICEFIRST ITEM NO	VENDOR ITEM NO	Shank		
		Tip Width	Length	Weight (lbs)
TOL02496	600-1	1/4" (6 mm)	1-1/2" (38 mm)	0.1
TOL02293	602-4	1/4" (6 mm)	4" (102 mm)	0.25
TOL02285	602-6	5/16" (8 mm)	6" (152 mm)	0.35

#### Square-Recess Tip Screwdrivers – Round-Shanks

**Additional Features:**

- Color-coded handle ends for quick and easy identification.
- Round shank with Robertson® tip for square-recess screws.
- Black-oxide shaft for corrosion resistance.



SERVICEFIRST ITEM NO	VENDOR ITEM NO	Shank Length	Point Size	Color
TOL02413	660	4" (102 mm)	No. 0	yellow
TOL02417	665	8" (203 mm)	No. 1	green
TOL02418	666	8" (203 mm)	No. 2	red
TOL02419	667	8" (203 mm)	No. 3	black

**Klein Tools**

**Cushion-Grip Screwdrivers**

**TORX® Screwdrivers – Round-Shanks**

**Additional Features:**

- Color-coded handle ends for quick and easy identification.
- TORX ® tip drive cuts slippage, saves fasteners, transmits more torque to the work.
- Black-oxide shaft for corrosion resistance.



SERVICEFIRST ITEM NO	VENDOR ITEM NO	TORX® Size	Shank Length	Color
TOL02481	19543	T20	4" (102 mm)	green

**Cushion-Grip Screwdrivers-s**

**Profilated® Phillips-Tip Screwdrivers – Round-Shanks**

**Additional Features:**

- Tips are precision-machined to provide a more consistent geometric symmetry than conventional Phillips-tip screwdrivers.
- Provides accurate fit and torque without slippage.



SERVICEFIRST ITEM NO	VENDOR ITEM NO	Length	Point Size	Weight (lbs)
TOL02296	603-1	1-1/2" (38 mm)	No. 2	0.1
TOL02291	603-3	3" (76 mm)	No. 1	0.15
TOL02286	603-4	4" (102 mm)	No. 2	0.25
TOL02412	603-6	6" (152 mm)	No. 3	0.35
TOL02297	603-7	7" (178 mm)	No. 2	0.3

**Diagol-Cutting Pliers**

**High-Leverage Diagol-Cutting Pliers**

**Additional Features:**

- High-leverage design. Rivet is closer to the cutting edge for 36% greater cutting and gripping power than other plier designs.
- Short jaws and beveled cutting edges permit close cutting of wire.
- Induction-hardened cutting knives for long life.
- Hot-riveted joint ensures smooth action and no handle wobble.



SERVICEFIRST ITEM NO	VENDOR ITEM NO	Length	Jaw Width	Thickness	Weight (lbs)
TOL02443	J228-8	13/16" (21 mm)	1-3/16" (30 mm)	7/16" (11 mm)	0.67

**Drill Bit Sets**

**13-Piece Regular-Point Drill-Bit Set**

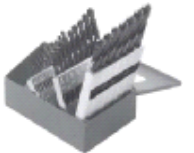
- Hinged metal box with one stand-up bit holder.



SERVICEFIRST ITEM NO	VENDOR ITEM NO	Set/Contains	Cat No	Bit Size	Weight (lbs)
TOL02562	53002		53100	1/16"	0.6

**29-Piece Regular-Point Drill-Bit Set**

- Hinged metal box with three stand-up bit holders.



SERVICEFIRST ITEM NO	VENDOR ITEM NO	Set/Contains	Cat No	Bit Size	Weight (lbs)
KIT12238	53000		53100	1/16"	3.25

**Drill Bits & Hole Saws**

**Hole Saw Kits**

*Journeyman's Hole Saw Kit*

**Additional Features:**

- The most frequently used sizes and an arbor extension for hard to reach spots.
- All components are packed in a rust-proof, molded plastic carrying case.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Weight (lbs)
KIT12347	31635	4.5

# Tools and Test Equipment

## Klein Tools

### Fish Tapes

#### Klein-Lite® Non-Metallic Fish Tapes with Grip-It® Handles



**Additional Features:**

- High pulling strength.
- Enlarged contoured eye-loop accommodates up to five unstripped No. 12 AWG wires.
- Rated to 500 lbs. maximum pulling force.
- Klein-Lite® non-metallic fish tape is lightweight with smooth, low-friction surface.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Length	Reel Diameter	Description	Weight (lbs)
TOL02500	50166	100' (31 m)	12"(305 mm)	Klein-Lite® Fish Tape with eye loop and 7' leader	3.6

### Folding Hex-Key Sets

#### Hex-Key Sets

##### Metric Sets



**Additional Feature:**

- Hex ends are square-cut for a secure full-depth fit and maximum contact with the hex socket to prevent slippage and stripping of the socket.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Handle Length	Description	Weight(lbs)
TOL02428	70580	133" (5-1/4mm)	five-key metric set: 4 mm, 5 mm, 6 mm, 8 mm, 10 mm	0.85



**Additional Feature:**

- Hex ends are square-cut for a secure full-depth fit and maximum contact with the hex socket to prevent slippage and stripping of the socket.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Handle Length	Description	Weight (lbs)
TOL02360	70591	4-1/4"(108 mm)	nine-key inch set: 5/64", 3/32", 7/64", 1/8", 9/64", 5/32", 3/16", 7/32", 1/4"	0.5
TOL02361	70581	3-1/16"(78 mm)	eight-key inch set: .050", 1/16", 5/64", 3/32", 7/64", 1/8", 9/64", 5/32"	0.2
TOL02362	70579	5-1/4"(133 mm)	five-key inch set: 3/16", 7/32", 1/4", 5/16", 3/8"	0.85

#### Grip-It® Hex Sets

##### GRIP-IT® Hex-Key Sets



**Additional Features:**

- Hex ends are square-cut for a secure full-depth fit and maximum contact with the hex socket to prevent slippage and stripping of the socket (Cat. Nos. 70570, 70573, 70574, and 70575).
- Ball design allows for a thicker neck diameter increasing torque capacity while maintaining operational angles to 25% (Cat. Nos. 70571 and 70572).

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Size	Description	Weight (lbs)
TOL02466	70574	5/64", 3/32", 7/64", 1/8", 9/64", 5/32", 3/16", 7/32", 1/4"	Grip-It® hex sets – 9 inch sizes	0.33
TOL02566	70575	.050", 1/16", 5/64", 3/32", 7/64", 1/8", 9/64", 5/32", 3/16"	Grip-It® hex sets – 9 inch sizes	0.2

### Gloves

#### Deerskin Work Gloves



- Premium deerskin, soft and form-fitting for maximum comfort.
- Gunn cut with seams away from wear surfaces.
- Inseam index finger.
- Shirred-elastic wrist back.
- Natural light-tan color.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Size	Weight (lbs)
APL00150	40021	medium	0.3
TOL02596	40022	large	0.35



**Klein Tools**

**Hammers**

**Ball-Peen Hammers**



- High-carbon steel head is forged and hardened.
- Crowned face with uniform bevel.
- Smoothly rounded peen.
- Straight-grain hickory handle is stained and lacquered.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Head Weight	Overall Length	Weight (lbs)
TOL02411	803-16	16 oz. (454 g)	13-1/2" (343 mm)	1.4

**Heavy-Duty Diagonal-Cutting Pliers – Tapered Nose**



- Additional Features:**
- Heavy-duty tapered nose design.
  - One-inch jaws easily reach into confined spaces.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Length	Jaw Width	Thickness	Weight (lbs)
TOL02265	D220-7	1" (25 mm)	31/32" (25 mm)	1/2" (13 mm)	0.54

**Heavy-Duty Long-Nose Pliers – Side-Cutting**

**Journeyman Series – Dual-material handles**



- Additional Features:**
- Induction hardened cutting knives for long life.
  - Heavier design for greater cutting power.
  - Extended handles provide added reach and leverage.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Length	Jaw Width	Thickness	Knife Length	Point Thickness
TOL02514	J203-8	2-5/16" (59 mm)	1" (25 mm)	1/2" (13 mm)	5/8" (16 mm)	1/8" (3 mm)



- Additional Features:**
- Induction hardened cutting knives for long life.
  - Heavier design for greater cutting power.
  - Extended handles provide added reach and leverage.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Length	Jaw Width	Thickness	Knife Length	Point Thickness
TOL02267	D203-8	2-5/16" (59 mm)	1" (25 mm)	1/2" (13 mm)	5/8" (16 mm)	1/8" (3 mm)

**Wire Stripping – Cleanly strips 12 AWG wire**



- Additional Features:**
- Induction hardened cutting knives for long life.
  - Heavier design for greater cutting power.
  - Extended handles provide added reach and leverage.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Length	Jaw Width	Thickness	Knife Length	Point Thickness
TOL02437	D203-8N	2-5/16" (59 mm)	1" (25 mm)	1/2" (13 mm)	5/8" (16 mm)	1/8" (3 mm)

**Heavy-Duty Long-Nose Pliers – Side-Cutting-s**

**Wire Stripping & Crimping – Cleanly strips 12 AWG wire; crimps connectors, lugs & terminals**



- Additional Features:**
- Induction hardened cutting knives for long life.
  - Heavier design for greater cutting power.
  - Extended handles provide added reach and leverage.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Length	Jaw Width	Thickness	Knife Length	Point Thickness
TOL02268	D203-8NCR	2-5/16" (59 mm)	1" (25 mm)	1/2" (13 mm)	5/8" (16 mm)	1/8" (3 mm)

# Tools and Test Equipment

## Klein Tools

### High-Leverage Diagonal-Cutting Pliers

**Additional Feature:**

- High-leverage design. Rivet is closer to the cutting edge for 36% greater cutting power than other plier designs.



SERVICEFIRST ITEM NO	VENDOR ITEM NO	Length	Jaw Width	Thickness	Weight (lbs)
TOL02261	D228-7	13/16" (21 mm)	1-3/16" (30 mm)	7/16" (11 mm)	0.54
TOL02262	D228-8	13/16" (21 mm)	1-3/16" (30 mm)	7/16" (11 mm)	0.6

### High-Leverage Diagonal-Cutting Pliers – Angled Head

#### 2000 Series – Heavy-duty cutting knives

**Additional Features:**

- Angled head design for easy work in confined spaces.
- High-leverage design. Rivet is closer to the cutting edge for 36% greater cutting power than other plier designs.



SERVICEFIRST ITEM NO	VENDOR ITEM NO	Length	Jaw Width	Thickness	Weight (lbs)
TOL02264	D2000-48	13/16" (21 mm)	1-3/16" (30 mm)	7/16" (11 mm)	0.6

**Additional Features:**

- Angled head design for easy work in confined spaces.
- High-leverage design. Rivet is closer to the cutting edge for 36% greater cutting power than other plier designs.



SERVICEFIRST ITEM NO	VENDOR ITEM NO	Length	Jaw Width	Thickness	Weight (lbs)
TOL02263	D248-8	13/16" (21 mm)	1-3/16" (30 mm)	7/16" (11 mm)	0.6

### High-Leverage Side-Cutting Pliers

**Additional Features:**

- High-leverage design. Rivet is closer to the cutting edge for 46% greater cutting and gripping power than other plier designs.
- Sure-gripping, cross-hatched knurled jaws.



SERVICEFIRST ITEM NO	VENDOR ITEM NO	Nose Type	Length	Jaw Width	Thickness	Knife Length
TOL02569	D213-8NE	New England	1-7/16" (37 mm)	1-3/16" (30 mm)	5/8" (16 mm)	23/32" (18 mm)
TOL02259	D213-9NE	New England	1-19/32" (41 mm)	1-1/4" (32 mm)	5/8" (16 mm)	25/32" (20 mm)

### High-Leverage Side-Cutting Pliers – Connector Crimping

**Additional Features:**

- Crimping die behind hinge for superior leverage crimping non-insulated connectors, lugs and terminals.
- High-leverage design. Rivet is closer to the cutting edge for 46% greater cutting and gripping power than other plier designs.
- Streamlined design with rounded nose and sure-gripping, cross-hatched knurled jaws.

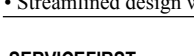


SERVICEFIRST ITEM NO	VENDOR ITEM NO	Nose Type	Length	Jaw Width	Thickness	Knife Length
TOL02260	D213-9NECR	New England	1-19/32" (41 mm)	1-1/4" (32 mm)	5/8" (16 mm)	25/32" (20 mm)

### High-Leverage Side-Cutting Pliers – Lineman's Bolt-Thread Holding

**Additional Features**

- Hinge opening holds and cleans 5/8" pole line and hardware bolts or threaded rods.
- High-leverage design. Rivet is closer to the cutting edge for 46% greater cutting and gripping power than other plier designs.
- Streamlined design with rounded nose and sure-gripping, cross-hatched knurled jaws.



SERVICEFIRST ITEM NO	VENDOR ITEM NO	Nose Type	Length	Jaw Width	Thickness	Knife Length
TOL02570	D213-9NETH	New England	1-19/32" (41 mm)	1-1/4" (32 mm)	5/8" (16 mm)	25/32" (20 mm)

**Klein Tools**

**Insulated Screwdrivers and Nut Drivers**

**Insulated Phillips-Tip – Round-Shank Screwdrivers**



**Additional Features:**

- Individually tested to exceed standards.
- Cushion-Grip handles for greater torque and comfort.
- Tips are Profilated® to provide a more consistent geometric symmetry than conventional Phillips-tip screwdrivers.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Shank Length	Point Size	Weight (lbs)
TOL02407	603-4-INS	4" (102 mm)	No. 2	0.3

**Klein Kleaner® Hand Cleaning Towels**



- Simple and convenient.
- Pre-moistened towels.
- No rinsing - no drying - no residue.
- Powerful, yet gentle pumice-like cleaning action.
- Quickly loosens, dissolves, and absorbs dirt and grease.
- Features a natural citrus solvent that's gentler than petroleum-based hand cleaners.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Container Size	Towel Size	Weight (lbs)
TOL02440	51425	72-count bucket	10-1/2" x 12-1/4" (267 mm x 311 mm)	2.45

**Levels**

**Magnetic Torpedo Level**



**Additional Features:**

- Magnetized strip on bottom.
- Yellow vials for easy viewing.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Overall Length	Weight (lbs)
TOL02429	930-9	9" (229 mm)	0.36

**Rare Earth Magnet Torpedo Level**



**Additional Features:**

- Powerful Rare Earth magnets hold firmly to iron and steel surfaces.
- Rare Earth magnets are up to 5 times stronger than strip magnets.
- Yellow vials framed with E-Z SEE v™ glow-in-the-dark material for easier viewing in dimly lit areas.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Overall Length	Weight (lbs)
TOL02551	931-9RE	9" (229 mm)	0.36

**Levels and Measuring Tools**

**25' Power-Return Rule – Double-Sided**



**Additional Features:**

- Double-sided rule for easy reading of elevations, flat surface, and pipe conduit measurements.
- Comfortable, non-slip rubber grip for easy gripping of case.
- Thick rubber grip protects case against fall impacts.
- Eye-catching blue case for quick identification in work areas and tool bags.
- Oversized, bold black numbers (first 11 inches) for easy reading. 16" (406 mm) and 19" (485 mm) red stud markings.
- Tape measure holders available.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Length	Width	Reading	Weight (lbs)
TOL02587	90825	25' (7.5mm)	1" (25mm)	both sides	0.9

# Tools and Test Equipment

## Klein Tools

### Levels and Measuring Tools

#### 30' Power-Return Rule – Double-Sided



**Additional Features:**

- Double-sided rule for easy reading of elevations, flat surface, and pipe conduit measurements.
- Comfortable, non-slip rubber grip for easy gripping of case.
- Thick rubber grip protects case against fall impacts.
- Eye-catching blue case for quick identification in work areas and tool bags.
- Oversized, bold black numbers (first 11 inches) for easy reading, 16" (406 mm) and 19" (485 mm) red stud markings.
- Tape measure holders available.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Length	Width	Reading	Weight (lbs)
TOL02575	90830	30' (9mm)	1" (25mm)	both sides	1.1

### L-Style Hex-Key Sets

#### L-Style Hex-Key Caddy Sets

##### 12-Piece Hex-Key Set – Inch



**Additional Features:**

- L-style hex keys in convenient caddy sets.
- Caddy contains a unique locking feature and marked slots for each key.
- Durable caddy keeps hex keys organized.

SERVICEFIRST ITEM NO	VENDOR ITEM NO
TOL02363	LLK12

#### L-Style Hex-Key Sets-s

#### L-Style Ball-End Hex-Key Caddy Sets

##### 12-Piece Ball-End Hex-Key Set – Inch



**Additional Features:**

- L-style hex keys in convenient caddy sets.
- Each set contains a unique locking feature and marked slots for each key.
- Ball-end works on angles up to 30°.
- Durable caddy keeps hex keys organized.

SERVICEFIRST ITEM NO	VENDOR ITEM NO
TOL02376	BLK12

### L-Style Hex-Keys

#### L-Style Ball-End Hex-Keys

##### Ball-End Hex-Key – Inch



**Additional Features:**

- Allows easy access, even in restricted or hard-to-reach areas.
- Long side for accessing hard-to-reach places.
- Short side for higher torque situations and low clearances.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Size and Length		Weight (lbs)	Hex Size
		Short Arm Length	Long Arm Length		
TOL02380	BL6	23/32"	3-7/16"	0.005	3/32"

### Midget Curved Chain-Nose Pliers



**Additional Features:**

- 60° bent nose for maximum work visibility in confined areas.
- Easily bends and forms fine wire.
- Polished inside jaws and radiused jaw edges prevent nicking wire.
- Spring-loaded for self-opening action.
- Curved handles provide greater tool control.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Length	Jaw			Weight (lbs)
			Width	Thickness	Point Thickness	
TOL02520	D320-4 1/2C	1" (25 mm)	13/32" (10 mm)	1/4" (6 mm)	1/16" (1.6 mm)	0.13

**Klein Tools**

**Mid-Size Parts Storage Boxes & Slide Racks**

**Mid-Size Compartment Boxes**



- Klein storage boxes are offered with a choice of compartment sizes and arrangements.
- Boxes feature strong, rigid, heavy-duty welded construction.
- Full-length piano hinged covers are designed to stay open for ease of access.
- Each box has a carrying handle, positive pull-down locking catch.
- Boxes have a heavy, metallic-gray baked-enamel finish.
- Box compartments feature high-impact styrene construction.
- Scoop-bottom design for easy parts removal and cleaning.
- Fits either four-drawer slide rack Cat. No. 54474 or six-drawer rack Cat. No. 54476.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Length(Front to Back)	Width	Height
BOX01623	54436	9-3/4" (248 mm)	13-5/16" (338 mm)	2" (51 mm)
BOX01624	54437	9-3/4" (248 mm)	13-5/16" (338 mm)	2" (51 mm)

**Slide-Rack Locking Bars**

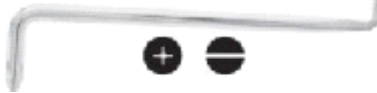


- Steel bars lock to secure mid-size storage boxes in slide racks.
- Front hasp pivots down to allow locking bar to open.
- Available for Klein four-box and six-box racks.
- Strong piano hinge.
- Metallic-grey baked-enamel finish.
- Mounting holes allow for easy installation with sheet metal screws or pop rivets.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Length(Front to Back)	Width	Height	Weight (lbs)
RCK00261	54476	11-3/4" (298 mm)	15-1/4" (387 mm)	16-3/8" (416 mm)	28.75
BAR00386	54484				0.25

**Offset Screwdrivers**

**Combition-Tip Offset Screwdriver**



- Designed for confined hard-to-reach applications.
- Two tip sizes for added convenience.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Overall Length	For Screw Nos	Weight (lbs)
TOL02523	V05	5" (127 mm)	1/4" slotted No. 2 Phillips	0.05

**Persol Protective Equipment**

**Full Face Shield**



- All-plastic construction.
- High-impact, full-front cap and chin guard for extra protection.
- Free-floating ratchet head gear with full-tension adjustment and sweat band for added comfort.
- Anti-warp design resists dimensional distortion from heat and moisture.
- Ample internal window clearance.
- Big window extends past ears, providing wide-angle protection.
- Window is made of clear, tough acetate and mounts on keyhole studs which allow easy replacement.
- Meets ANSI Z87.1, 1989 and CSA Z94.3.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Description	Weight (lbs)
TOL02444	60060	face shield with chin guard; window dimensions: 19-1/2" W x 6-1/2" H (495 mm x 165 mm)	1.45
TOL02445	60061	replacement window for Cat. No. 60060 face shield	0.25

# Tools and Test Equipment

## Klein Tools

### Plastic Tool Boxes

#### HI-VIZ 3-Tier Tool Box

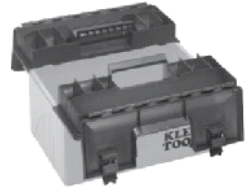


**Additional Features:**

- Offers maximum space and organization in a compact unit.
- All the storage compartments nest for maximum storage in one compact unit.
- V-groove in lid to hold conduit or pipe for sawing.
- Top tray has compartments for small tools and parts.
- Tote tray holds larger tools and accessories.
- Tote and top tray have molded handles to carry separately.
- Large tub for big power tools.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Weight (lbs)	Capacity	Depths	Width
TOL02482	54700	5.15	1,165 cu. in. (19,091 cu. cm.)	9" (229 mm)	16-1/4" (413 mm)

#### HI-VIZ Slide-Top Tool Box



**Additional Features:**

- Two slide-out cantilever trays to store small tools and supplies
- Tray dividers are removable for flexible organization.
- Hinged tray cover keeps tools in place when closed.
- Trays features flip covers for quick and easy access.
- Bottom storage is large enough for power tools.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Weight (lbs)	Depths	Width	Height
TOL02532	54705	3.85	10" (254 mm)	15" (381 mm)	10" (254 mm)

### Plastic-Handle Nut Drivers

#### Hollow-Shank Nut Drivers — 3"- & 4"-Shanks



**Additional Features:**

- Standard length works for most applications.
- Fits over long bolts and studs

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Shank Length	Handle Color	Weight (lbs)
TOL02344	S8	3" (76 mm)	red	0.15
TOL02345	S10	3" (76 mm)	amber	0.15
TOL02346	S12	3" (76 mm)	blue	0.15

#### Individual Super-Long Nut Drivers — 18"-Shanks



**Additional Features:**

- Heavy-duty, long-reach nut drivers.
- Ideal for reaching into walls and other hard-to-get-at places where added length is necessary.
- Available in magnetic and non-magnetic tip.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Type	Shank Length	Handle Color
TOL02347	S1018M	magnetic	18" (457 mm)	amber

### Magnetic Nut Drivers

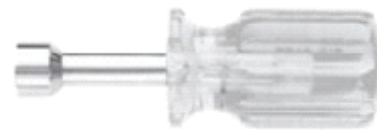


**Additional Feature:**

- Powerful nut-holding magnet built into shank.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Shank Length	Handle Color	Weight (lbs)
TOL02348	S8M	3" (76 mm)	red	0.15
TOL02349	S10M	3" (76 mm)	amber	0.15
TOL02350	S86M	6" (152 mm)	red	0.15
TOL02351	S106M	6" (152 mm)	amber	0.15
TOL02573	S126M	6" (152 mm)	blue	0.15

### Stubby Nut Drivers — 1-1/4"-Shanks



**Additional Feature:**

- Stubby nut drivers allow for work in close quarters.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Shank Length	Handle Color	Weight (lbs)
TOL02342	SS8	1-1/4" (38 mm)	amber	0.15
TOL02343	SS10	1-1/4" (38 mm)	amber	0.15

**Klein Tools**

**Plastic-Handle Nut Drivers-s**

**Individual Nut Drivers — 6"-Shanks**



- Additional Features:**
- Reaches into deep recesses.
  - Fits over extra-long bolts and studs.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Shank Length	Handle Color	Weight (lbs)
TOL02336	S86	6" (152 mm)	red	0.15
TOL02337	S106	6" (152 mm)	amber	0.15
TOL02339	S126	6" (152 mm)	blue	0.15
TOL02340	S146	6" (152 mm)	brown	0.2
TOL02341	S166	6" (152 mm)	red	0.2

**Plastic-Handle Screwdriver Set**

**Cabinet-Tip Screwdrivers – Round-Shanks**



- Additional Features:**
- Small-diameter shank for use in recessed holes or tight places.
  - Well-suited for electrical and telecommunications work.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Shank		Weight (lbs)
		Tip Width	Length	
TOL02552	A216-3	1/8" (3.2 mm)	3" (76 mm)	0.05
TOL02310	A216-6	1/8" (3.2 mm)	6" (152 mm)	0.05
TOL02439	A216-8	1/8" (3.2 mm)	8" (203 mm)	0.05

**Keystone-Tip Screwdrivers – Round-Shanks**



- Additional Features:**
- Oversized handle is 35% larger than comparable screwdriver handles.
  - Delivers up to 50% extra power to perform tough jobs with minimum effort.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Shank		Weight (lbs)
		Tip Width	Length	
TOL02307	BD144	8-1/2" (216 mm)	8-1/2" (216 mm)	0.25
TOL02308	BD146	10-1/2" (267 mm)	10-1/2" (267 mm)	0.25

**Keystone-Tip Screwdrivers – Square-Shanks**



- Additional Features:**
- Oversized handle is 35% larger than comparable screwdriver handles.
  - Delivers up to 50% extra power to perform tough jobs with minimum effort.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Shank		Weight (lbs)
		Tip Width	Length	
TOL02306	BD308	5/16" (7.9 mm)	8" (203 mm)	0.4

**Pocket-Clip Screwdrivers**

*Keystone-Tip, and Cabinet-Tip Screwdrivers*



- Additional Features:**
- Round-shank screwdrivers ranging from 3-1/4" (82 mm) to 6-7/16" (164 mm) long.
  - Convenient pocket clip.
  - Cat. No. A010 has keystone-tip, Cat. No. P12 has Phillips-tip, and all others have cabinet tip.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Shank		Weight (lbs)
		Tip Width	Length	
TOL02304	A130-3	1/8" (3.2 mm)	3" (76 mm)	0.04

# Tools and Test Equipment

## Klein Tools

### Plastic-Handle, Hollow-Shaft Nut Driver Sets

#### 7-Piece Nut-Driver Set — 6"-Shanks



**Additional Features:**

- Contains seven 6-inch-shaft nut drivers that reach into deep recesses.
- Comes in a reclosable vinyl seal-tight pouch.

SERVICEFIRST ITEM NO	VENDOR ITEM NO
TOL02334	89904

## Pliers

### Diagol Pliers

#### 5" Electronics Diagol-Cutting - Pointed Nose, Narrow Jaws



**Additional Features:**

- Narrow jaw and hinge for delicate work in tight areas.
- Sharp pointed-nose for precise tip cutting.
- Spring-loaded action for self-opening.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Cutting Knives	Jaw			Overall Length	Weight (lbs)
			Length	Thickness	Width		
TOL02519	D-244-5C	flush	11/16"(18mm)	5/16"(8mm)	1/2"(13mm)	5-1/16"(129mm)	0.18

### Side-Cutting Pliers

#### 9" High-Leverage Side-Cutting Pliers - Connector Crimping 2000 Series®



**Additional Features:**

- Crimping die behind hinge for superior leverage crimping non-insulated connectors, lugs and terminals.
- High-leverage design. Rivet is closer to the cutting edge for 46% greater cutting and gripping power than other plier designs.
- Streamlined design with rounded nose and sure-gripping, cross-hatched knurled jaws.
- 2000 Series - Heavy-duty cutting knives. Cuts ACSR, screws, nails and most hardened wire. Features combination polished and black-oxide finish.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Jaw				Overall Length	Weight (lbs)
		Length	Thickness	Width	Knife Length		
TOL02435	D2000-9ECR	1-19/32"(41mm)	5/8"(16mm)	1-1/4"(32mm)	25/32"(20mm)	9-3/8" (238mm)	1.08

## Pocket Knives – One Blade

### Lightweight Lockback Knives

#### Drop-Point Blade



- Blades are AUS8 stainless hardened to 58-59 Rc.
- Premium quality blade offers superior edge holding.
- Impact-resistant nylon resin handle with rubber insert (Cat. Nos. 44002-44005).
- Slim, stylish and comfortable aluminum handle (Cat. Nos. 44000 and 44001).
- Thumb stud (reversible) provides easy one-handed opening.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Blade			Weight (oz)
		Steel	Length	Length(closed)	
TOL02495	44002	AUS8 stainless steel	2-3/8" (60 mm)	3-1/2" (89 mm)	1.5



**Klein Tools**

**PowerLine™ Series**

**Mobile Phone Holders**



**Additional Features:**

- Fits most mobile phones.
- Metal belt clip for simple mounting and removal from belts up to 2" wide.
- Closable Velcro® flap and closed bottom for convenient storage.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Size	Length	Width	Weight (lbs)
TOL02535	5715	large	6-1/2" (165 mm)	3-5/8" (92 mm)	0.14

**Power-Return Rules**

**Power-Return Steel Rules — Magnetic Tip**



**Additional Features:**

- Rare Earth magnetic tip sticks to iron and steel surfaces for simple one-person measurements.
- Comfortable, non-slip rubber jacket for easy gripping of case.
- Thick rubber jacket protects case against fall impacts.
- Convenient two-step lock button - 1st step slows retraction of the blade; 2nd step holds the blade securely.
- High-visibility orange case for easy locating in work areas and tool bags.
- 1.25" (32 mm) wide blade on 917-25RE (1" blade on all others).
- Oversized, bold black numbers (first 11 inches) for easy reading\*, 16" (406 mm) and 19" (485 mm) red stud markings.
- Tape measure holders available.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Blade Length	Width	Weight (lbs)
TOL02391	916-25RE	25' (7.5 m)	1" (25 mm)	0.9

**Protective Eyewear**

**Protective Eyewear – Frameless**



**Additional Features:**

- Frameless, wrap-around polycarbonate lens for unobstructed vision and coverage.
- Lightweight, frameless design for all-day comfort.
- Easy-fitting universal molded-in nosepiece.
- Lens available in clear and brown tint. Brown tinted lens for outdoor use, meets traffic signal color recognition of ANSI Z80.3-1996.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Frame Color	Lens Color	Weight (lbs)
APL00152	60056	black	clear	0.15

**Protective Eyewear – Standard**



**Additional Features:**

- Rare Earth magnetic tip sticks to iron and steel surfaces for simple one-person measurements.
- Comfortable, non-slip rubber jacket for easy gripping of case.
- Thick rubber jacket protects case against fall impacts.
- Convenient two-step lock button - 1st step slows retraction of the blade; 2nd step holds the blade securely.
- High-visibility orange case for easy locating in work areas and tool bags.
- 1.25" (32 mm) wide blade on 917-25RE (1" blade on all others).
- Oversized, bold black numbers (first 11 inches) for easy reading\*, 16" (406 mm) and 19" (485 mm) red stud markings.
- Tape measure holders available.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Frame Color	Lens Color	Weight (lbs)
TOL02525	60055	black	brown tint	0.15

# Tools and Test Equipment

## Klein Tools

### Pump Pliers



- Secure tongue and groove design for non-slip grip - even with heavy pressure.
- Wide range of versatile jaw positions.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Max Jaw Capacity	Weight (lbs)
TOL02272	D502-6	7/8" (22 mm)	0.41
TOL02273	D502-10	1-3/4" (45 mm)	0.97
TOL02438	HD502-10	1-3/4" (45 mm)	1.01
TOL02274	D502-12	2-3/8" (60 mm)	1.37
TOL02554	D502-16	4-1/4" (108 mm)	3.22

## Punches

### Pin Punches



- High-carbon steel for durability.
- Precision-ground shank.
- Heat-treated for added strength and hardness at working end.
- Corrosion resistant black finish.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Overall Length	Point Diameter	Weight (lbs)
TOL02479	66322	5" (127 mm)	1/8" (3 mm)	0.1
TOL02480	66324	5-1/2" (140 mm)	3/16" (5 mm)	0.1

## Ratcheting Box Wrenches

### 5-Piece Ratcheting Box Wrench Set



- Five ratcheting box wrenches packed in a vinyl 8-1/2"W x 10"H (216 mm x 254 mm) roll-up pouch with individual pockets.
- Wrenches flip over to reverse ratchet.
- Set includes three single-hex and two double-hex wrenches.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Weight (lbs)
TOL02459	68221	1.45

### 7-Piece Ratcheting Box Wrench Set



- Set of the ratcheting box wrenches in heavy plastic roll-up pouch.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Weight (lbs)
TOL02565	68222	2.65

## Ratcheting Offset Box Wrenches

### 3-Piece Fully Reversible Ratcheting Offset Box Wrench Set



- Set of three offset and fully reversible ratcheting box wrenches.
- Different size single-hex openings on each end.
- Includes heavy-duty plastic pouch with grommet hole for hanging.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Weight (lbs)
TOL02594	68244	0.61

**Klein Tools**

**Ratcheting Offset Box Wrenches**

**Ratcheting Refrigeration Wrenches**



- Fully reversible ratchet wrenches designed for refrigeration packing gland nuts and valve stem sockets.
- Also designed for beam-clamp installation.
- Wrenches are compact in size, with clearly marked sockets for four nut sizes.
- Quick-flip reversing lever permits instant ratchet reversal.
- Wrenches are ruggedly built and have polished chrome finish with smooth edges for comfort.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Socket Sizes	Length	Weight (lbs)
TOL02358	68310	3/16" and 5/16" sq. x 1/4" and 3/8" sq.	5-1/2" (140 mm)	0.2
TOL02359	68310-24	24 pack of Cat. No. 68310	5-1/2" (140 mm)	4.7

**Screwdrivers, Nut Drivers & Accessories**

**10-in-1 Screwdriver/Nut Driver**



**Additional Features:**

- End of handle is marked to quickly identify tool.
- Features 5/16" & 1/4" nut drivers, #1 and #2 Phillips, 1/4" & 3/16" slotted, #10 & #15 TORX®, and #1 and #2 square-recess.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Contains	Weight (lbs)
TOL02299	3247712	5/16" and 1/4" nut drivers, #1 and #2 Phillips, 1/4" and 3/16" slotted, #10 and #15 TORX®, #1 and #2 square-recess	0.35

**9/16" Cushion-Grip Hollow-Shank Nut Driver — 6" Shank**

**Additional Features:**

- Reaches into deep recesses.
- Fits over extra-long bolts and studs



SERVICEFIRST ITEM NO	VENDOR ITEM NO	Color Code	Hex Size	Overall Length	Shank Length	Weight (lbs)
TOL02589	646-9/16"	orange	9/16"	11-3/8"(289mm)	6"(152mm)	0.4

**Screw-Holding Screwdrivers**

**Slotted Screw-Holding Screwdrivers**

- Split-blade screw-holding driver wedges into screw slot.
- Positive gripping action holds, starts, and drives slotted screws in awkward, hard-to-reach places.
- Not designed for torquing or tightening.



SERVICEFIRST ITEM NO	VENDOR ITEM NO	Tip Width	Shank Length	Weight (lbs)
TOL02315	K36	1/4" (6.3 mm)	6" (152 mm)	0.15

**Shaws & Blades**

**Dual-Purpose Hacksaw — Golden Tri-Cut 3-in-1 Blade**



- Blade has three teeth sizes.
- Blade converts quickly to 90° or 45° for standard or flush-cut applications.
- Pivot-lock adjusts blade tension for straighter cuts and longer blade life.
- Set screw allows for storage of extra blades and secures blade for "jab" sawing.
- Aluminum finger grip handle and front end.
- Thumb guard for two-hand sawing.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Blade Length	Overall Length	Weight (lbs)
TOL02409	701-S	12" (305 mm)	16" (406 mm)	1.45

# Tools and Test Equipment

## Klein Tools

### Shaws & Blades-s

#### Bi-Metal Blades



- Special high-speed steel teeth fused to regular carbon-steel body provide superior cutting and longer life.
- Withstands greater saw tension for less blade flexing.
- Fits all 12" (305 mm) hacksaw blades.
- Blue finish.
- Available in box of 100 blades or in a reclosable, heavy-vinyl, seal-tight pouch of ten blades.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Length Per Inch	Length	Weight (lbs)
BLD01043	1224BI-P	24	12" (305 mm)	0.45

## Sheet Metal Tools

### Aviation Snips – Regular/Offset/Bulldog



- Forged and heat treated steel blades for strength and durability.
- Regular and offset blades have the capacity of cutting 18 gauge cold-rolled sheet metal, and 22 gauge stainless steel sheet metal.
- Offset blades provide ease of cutting tight curves, and keep user's hand away from metal
- Bulldog snips for notching or trimming 16 gauge cold-rolled sheet metal and 18 gauge stainless steel sheet metal
- Spring-loaded for self-opening action.
- Latch keeps jaws closed when not in use.
- Hardened handles for extra strength.
- Contoured plastic handles are comfortable and color-coded by cutting pattern.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Cutting Pattern	Length of cut	Closed Overall Length	Weight (lbs)
TOL02393	1100L	regular left	1-3/8" (35 mm)	9-3/4" (248 mm)	0.9

## Side-Cutting Pliers

### High-Leverage Side-Cutting Pliers

#### 2000 Series – Heavy-duty cutting knives



#### Additional Features:

- High-leverage design. Rivet is closer to the cutting edge for 46% greater cutting and gripping power than other plier designs.
- Streamline design with sure-gripping, cross-hatched knurled jaws.
- Induction-hardened cutting knives for long life.
- Hot-riveted joint ensures smooth action and no handle wobble.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Length	Jaw Width	Thickness	Knife Length
TOL02597	J2000-9NE	1-19/32" (41 mm)	1-1/4" (32 mm)	5/8" (16 mm)	25/32" (20 mm)

## Slip-Joint Pliers



- Shear-type cutter for precision wire cutting.
- Two versatile jaw positions.
- Serrated jaws provide sure-gripping power.
- Nickel-chrome plated for long life.
- Knurled handles for greater leverage.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Length	Jaw Width	Thickness
TOL02271	D511-6	1-3/16" (30 mm)	1-3/16" (30 mm)	3/8" (10 mm)
TOL02571	D511-8	1-3/8" (35 mm)	1-1/4" (32 mm)	7/16" (11 mm)

**Klein Tools**

**Socket Wrench Sets**

**13-Piece 1/4-Inch Drive Socket Wrench Set**



- Set consists of the following pieces:
- Nine 6-point sockets: 3/16", 7/32", 1/4", 9/32", 5/16", 11/32", 3/8", 7/16", and 1/2".
  - Spinner handle.
  - Two extensions: 2" and 6" long.
  - Ratchet.
  - Hinged metal box.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Weight (lbs)	Description
TOL02542	65500	2.07	complete 13-piece 1/4" drive set plus metal box

**16-Piece 1/2-Inch Drive Socket Wrench Set**



- Set consists of the following pieces:
- Thirteen 12-point sockets: 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8", 15/16", 1", 1-1/16", 1-1/8", and 1-1/4".
  - Extension: 5" long.
  - Flex handle: 17" long.
  - Ratchet.
  - Hinged metal box.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Weight (lbs)	Description
TOL02442	65512	9.63	complete 16-piece 1/2" drive set plus metal box

**Socket Wrench Sets-s**

**20-Piece 3/8-Inch Drive Socket Wrench Set**



- Set consists of the following pieces:
- Four 6-point sockets: 3/8", 7/16", 1/2" and 9/16".
  - Five 12-point sockets: 5/8", 11/16", 3/4", 13/16" and 7/8".
  - Eight 6-point deep sockets: 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4" and 13/16".
  - Two extensions: 1-3/4" and 3" long.
  - Ratchet.
  - Hinged metal box.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Weight (lbs)	Description
TOL02458	65508	5.4	complete 20-piece 3/8" drive set plus metal box

**Special-Purpose Knives**

**Utility Knife — Retractable Blade**



- Top button moves heavy-duty, razor-edged blade to any of three cutting positions.
- Double-ended, reversible blade retracts fully for carrying.
- Lightweight aluminum handle is shaped for comfort.
- Accepts most standard blades.
- Includes 3 standard blades, stored in handle.
- Blades made in the U.S.A.
- Leather holder available, Cat. No. 5185.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Length(closed)	Weight (lbs)
TOL02395	44100	6" (152 mm)	0.22

# Tools and Test Equipment

## Klein Tools

### Special-Purpose Knives

#### Utility Knife Blades



- Heavy-duty razor-edged blades.
- Universal size fits Klein and most other makes of utility knives.
- Blades are reversible for extra life.
- Blades made in the U.S.A.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Blade Size	Package Size	Weight (lbs)
BLD01046	44101	2-7/16" x .025"(62 mm x 6 mm)	5 blades	0.05

### Specialty Plastic-Handle Screwdrivers

#### Ratcheting Screwdriver Set



- Slotted and Phillips-tip set.
- Contains a unique 3-position ratcheting screwdriver plus an assortment of blade types and/or sizes.
- Comfortable handle with an easy-to-open snap top.
- Interchangeable bits store inside the handle for quick access.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Shank Length with Bits	Bits Included	Weight (lbs)
TOL02498	32473	4-1/4" (108 mm)	3/16" and 9/32" slotted plus No. 1 and No. 2 Phillips	0.4

#### Specialty Screwdrivers

##### 10-in-1 Screwdriver/Nut Driver



**Additional Feature:**

- End of handle is marked to quickly identify tool.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Contains	Weight (lbs)
TOL02298	32477	5/16" and 1/4" nut drivers, #1 and #2 Phillips, 1/4" and 3/16" slotted, #10 and #15 TORX®, #1 and #2 square-recess	0.35

##### Replacement Bits for 10-in-1 Screwdriver/Nut Driver

**Additional Feature:**

- End of handle is marked to quickly identify tool.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Fits	Quantity	Description	Weight (lbs)
TOL02300	32482	10-in-1 (Cat. No. 32477)	contains 2 bits	#1 Phillips – 3/16" slotted	10
TOL02301	32483	10-in-1 (Cat. No. 32477)	contains 2 bits	#2 Phillips – 1/4" slotted	0.012
TOL02302	32484	10-in-1 (Cat. No. 32477)	contains 2 bits	#1 square – #2 square	0.01
TOL02303	32485	10-in-1 (Cat. No. 32477)	contains 2 bits	#10 Torx® – #15 Torx®	0.008

##### 5-in-1 Screwdriver/Nut Driver



**Additional Feature:**

- End of handle is marked to quickly identify tool.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Contains	Weight (lbs)
TOL02579	32476	5/16" nut driver, #1 and #2 Phillips, 9/32" slotted and 3/16" slotted	0.35

### Standard Diagonal-Cutting Pliers – Tapered Nose



**Additional Feature:**

- Tapered nose for easy working in confined areas and close tip cutting.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Length	Jaw Width	Thickness
TOL02266	D202-6	13/16" (21 mm)	11/16" (18 mm)	7/16" (11 mm)

**Klein Tools**

**Standard Long-Nose Pliers – Side-Cutting**



**Additional Features:**

- Induction hardened, long-lasting cutting knives.
- Knurled jaws for sure wrapping and looping.
- Curved handles provide greater tool control.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Length	Jaw Width	Thickness	Knife Length	Point Thickness
TOL02269	D203-6	1-7/8" (48 mm)	11/16" (18 mm)	3/8" (10 mm)	1/2" (13 mm)	3/32" (2 mm)
TOL02270	D203-7	2-7/16" (62 mm)	11/16" (18 mm)	3/8" (10 mm)	1/2" (13 mm)	3/32" (2 mm)

**Step-Drill Bits**

**Unibit® High Speed Steel Step-Drill Bits — Inch**



- Single-fluted design eliminates skidding and makes for easier resharpening.
- Laser-etched hole sizes are easy-to-read and permanent.
- Anti-skid tip eliminates the need for center punching or pilot hole drilling for most sizes
- Drill multiple-size holes in thin sections of metal, plastic, and wood using a single bit.
- Works in most metals (steel, brass, aluminum, copper), as well as in plastic and wood.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	No Of Hole Sizes Per Bit	Size Range(Hole Diameter)	Electric Drill Size	Weight (lbs)
TOL02397	59001	13 in 1/32" increments	1/8" to 1/2"	1/4" and larger	0.05
TOL02398	59002	8 in 1/16" increments	9/16" to 1"	1/2" and larger	0.2
TOL02399	59003	9 in 1/16" increments	1/4" to 3/4"	3/8" and larger	0.15
TOL02400	59004	10 in 1/16" increments	13/16" to 1-3/8"	1/2" and larger	0.5
TOL02401	59005	6 in 1/16" increments	3/16" to 1/2"	1/4" and larger	0.05
TOL02402	59007	1	1/2"	1/4" and larger	0.05
TOL02403	59008	1	7/8"	3/8" and larger	0.1
TOL02405	59011	2	7/8" and 1-1/8"	1/2" and larger	0.3
TOL02406	59014	12 in 1/16" increments	3/16" to 7/8"	3/8" and larger	0.15

**Strap Wrenches**

**Grip-It® Strap Wrenches**



- Completely adjustable strap wrench.
- Works in the tightest quarters.
- Urethane-covered, high-strength belting attached to lightweight, I-beam handle.
- Patented, cam-action design permits uniform, high-torque application.
- Under normal conditions, will not scratch, damage or deform polished pipe and fittings, oil and water filters, glass pipe, PVC conduit, and polished shafts.
- Also works on alternator belts, flywheels, and propeller assemblies.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Handle Length	Diameter Capacity, OD	Weight (lbs)
TOL02467	S12H	12" (305 mm)	1-1/2" – 5" (38 mm – 127 mm)	0.8

**Tapping Tools and Awls**

**Cushion-Grip Scratch Awl**

- Professional, heavy-duty, hard-pointed awl.
- Scribes metal, starts screw holes, performs a variety of piercing and punching jobs.
- Rigid, chrome-plated, heat-treated, tempered steel shank has full reinforcing bolster at handle for extra strength and for handle impact reinforcement.
- Internal flanges provide solid shank anchor.
- Cushion-Grip handle allows for greater comfort.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Overall Length	Blade Length	Weight (lbs)
TOL02352	650	7-7/8" (200 mm)	3-1/2" (89 mm)	0.25

# Tools and Test Equipment

## Klein Tools

### Terminals

#### Quick Connects

Female Tab (Fully Insulated)



SERVICEFIRST ITEM NO	VENDOR ITEM NO	Wire Size	Weight Per (oz)	Length	Width
CON01283	C68304	16-14	0.0384	27/32"	11/32"

## T-Handle Hex-Key Sets

### T-Handle Hex-Key Sets with Stand



- Furnished complete with a rugged metal stand for convenient hanging, storage on bench or wall.
- T-handle design delivers more torque to the fasteners.

SERVICEFIRST ITEM NO	VENDOR ITEM NO
TOL02556	70153

### T-Handle Hex-Keys

9" Length – Inch Measure

#### Additional Feature:

- T-handle design delivers more torque to the fasteners.
- Color-coded handles: blue for metric, black for inch.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Blade Length	Weight (lbs)	Hex Size
TOL02389	79208	7-1/4" (184 mm)	0.08	1/8"
TOL02390	79210	7-1/4" (184 mm)	0.1	5/32"

## Tool Bags

### Tool Tote™ – Shoulder Strap



- Constructed of double-layered, 600 x 300 denier polyester to resist wear and tear on the jobsite.
- Water-resistant to avoid the buildup of mold and mildew.
- 2" (51 mm) wide polypropylene padded carrying handles with comfortable leather wrap.
- Contoured, padded, slip-resistant shoulder strap for hands-free mobility.
- Durable molded bottom with drain holes to prevent water retention.
- Interior pockets include: 5 interior pockets and a large interior compartment to easily carry a wide assortment of hand tools, power tools, and supplies.
- Exterior pockets include: 7 multi-tool pockets for a variety of tools and mobile phone.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Length	Width	Depth	Weight (lbs)
TOL02441	58888	15-1/2" (394 mm)	7-1/2" (191 mm)	10" (254 mm)	3.85



**Klein Tools**

**Tool Belts**

**Lightweight Utility Belt**



- Strong, lightweight, synthetic-web.
- Quickly adjusts for waist sizes through 52" (1321 mm).
- Accepts tunnel-loop and slotted pouches and holders.
- Tough, molded, non-metallic, slideaction buckle provides single-handed, quick release and adjustment.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Color	Size	Width	Weight (lbs)
TOL02507	5204	blue	one size fits most	2" (51 mm)	0.2

**Tool Pouches**

**7-Pocket Tool Pouch**



- Soft, pliable, white leather.
- Moisture-resistant to retain flexibility even after being wet and dried.
- Riveted to assure long life.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Pockets (Total Number)	Belt Width	Overall Size	Weight (lbs)
TOL02504	5166	7	2-1/4"(57 mm)	7" x 9-1/2"(178 mm x 241 mm)	0.92

**Tool Stool**



- Vinyl-covered cushion for comfort and long life.
- Padded seat rotates 360°.
- Attractive, durable chrome-finished legs.
- Stool is 30" (762 mm) tall.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Weight (lbs)
TOL02503	98820	0.15

# Tools and Test Equipment

## Klein Tools

### Torque Screwdrivers

#### Torque-Screwdriver Set



- Compact, easy to use set.
- Form-fitted storage box to keep set organized.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Set Contains	Weight (lbs)
TOL02499	57034	torque screwdriver Cat. No. 57035, 8-piece bit set Cat. No. 57036, rugged form-fitted storage box	1

### Universal Side-Cutting Pliers – Connector Crimping

**Additional Features:**

- Crimping die behind hinge for superior leverage crimping non-insulated connectors, lugs and terminals.
- Toothed pipe grip for greater gripping power.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Nose Type	Length	Jaw Width	Thickness	Knife Length
TOL02430	12098	Universal	1-25/32" (45 mm)	1-1/32" (26 mm)	17/32" (13 mm)	3/4" (19 mm)

### Wire Strippers/Cutters

#### Dual NM Cable Strippers/Cutters



**Additional Features:**

- 10/2, 12/2, and 14/2 stripping slots quickly remove outer jacket of Type NM-B nonmetallic-sheathed cable.
- Stripping holes easily remove insulation on 10, 12, and 14 AWG lead wire.
- Precision staggered blades for square, clean cuts on solid copper wire.
- Narrow nose fits into tight places.
- Precision shear-type blades for square, clean cuts on solid copper wire.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Strips and Cuts	Type NM-B Cable	Weight (lbs)
TOL02521	K1210	10 & 12 AWG solid (4.0 mm2 & 2.5 mm2)	10/2 & 12/2	0.43

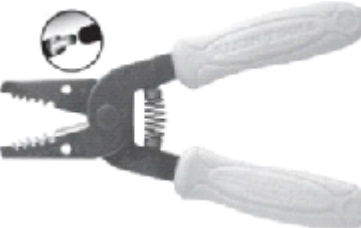
#### Wire Stripper/Cutter — Solid and Stranded Wire



- Strips six standard wire sizes without nicking wire.
- Scissors action of 1/2" (13 mm) wide cutter makes clean cuts with little effort.
- Serrated nose jaws to bend, shape or pull wire; holes for looping wire ends.
- Spring-loaded for self-opening action.
- Comfortable, plastic-covered handles.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Strips and Cuts	Weight (lbs)
TOL02277	1011	10 – 20 AWG solid & stranded (4.0 mm2 – .50 mm2)	0.23

#### Wire Strippers/Cutters



**Additional Features:**

- Compact, lightweight wire-stripping and cutting tools.
- Narrow nose fits into tight places.
- Hardened steel with precision ground stripping holes.
- Do not use for cutting steel wire or bolts.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Strips and Cuts	Weight (lbs)
TOL02276	11045	10 – 18 AWG solid (4.0 mm2 – .75 mm2)	0.27
TOL02464	11046	16 – 26 AWG solid (1.0 mm2 – .14 mm2)	0.27

### Wire Strippers/Cutters – Solid and Stranded Wires



**Additional Features:**

- Precision shear-type blades for clean cuts on solid and stranded copper wire.
- Easy-to-read markings on both sides.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Strips Solid AWG Gauges	Strips Stranded AWG Gauges	Weight (lbs)
TOL02275	11055	10 – 18 (4.0 mm2 – .75 mm2)	12 – 20 (2.5 mm2 – .50 mm2)	0.34
TOL02465	11057	20 – 30 (.50 mm2 – .14 mm2)	22 – 32 (.34 mm2 – .05 mm2)	0.32

#### TripSaver®

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Overall Length	Weight (lbs)
TOL02522	1016	5-3/4" (143 mm)	0.95

Tools and Test Equipment

**Brushes by Goodway**

**Brushes—Brass**



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
BRU00219	GTC-200B-1	1"
BRU00220	GTC-200B-1/2	1/2"
BRU00221	GTC-200B-1/4	1/4"
BRU00197	GTC-200B-11/16	11/16"
BRU00198	GTC-200B-13/16	13/16"
BRU00199	GTC-200B-15/16	15/16"
BRU00222	GTC-200B-3/4	3/4"
BRU00223	GTC-200B-3/8	3/8"
BRU00224	GTC-200B-5/16	5/16"
BRU00192	GTC-200B-5/8	5/8"
BRU00225	GTC-200B-7/16	7/16"
BRU00200	GTC-200B-7/8	7/8"
BRU00201	GTC-200B-9/16	9/16"
BRU00226	GTC-200BQ-1	1", quick connect
BRU00227	GTC-200BQ-1/2	1/2", quick connect
BRU00228	GTC-200BQ-11/16	11/16" quick connect
BRU00229	GTC-200BQ-13/16	13/16", quick connect
BRU00230	GTC-200BQ-15/16	15/16", quick connect
BRU00231	GTC-200BQ-3/4	3/4", quick connect
BRU00232	GTC-200BQ-5/8	5/8", quick connect
BRU00233	GTC-200BQ-7/16	7/16", quick connect
BRU00234	GTC-200BQ-7/8	7/8", quick connect
BRU00235	GTC-200BQ-9/16	9/16", quick connect

**Brushes—Stainless Steel**



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
BRU00236	GTC-210-1	1"
BRU00237	GTC-210-1/2	1/2"
BRU00238	GTC-210-1/4	1/4"
BRU00239	GTC-210-11/16	11/16"
BRU00240	GTC-210-13/16	13/16"
BRU00241	GTC-210-15/16	15/16"
BRU00242	GTC-210-3/4	3/4"
BRU00243	GTC-210-3/8	3/8"
BRU00244	GTC-210-5/16	5/16"
BRU00245	GTC-210-5/8	5/8"
BRU00246	GTC-210-7/16	7/16"
BRU00247	GTC-210-7/8	7/8"
BRU00248	GTC-210-9/16	9/16"
BRU00249	GTC-210Q-1	1" with quick connect
BRU00250	GTC-210Q-1/2	1/2" with quick connect
BRU00251	GTC-210Q-11/16	11/16" with quick connect
BRU00252	GTC-210Q-13/16	13/16" with quick connect
BRU00253	GTC-210Q-15/16	15/16" with quick connect
BRU00254	GTC-210Q-3/4	3/4" with quick connect
BRU00255	GTC-210Q-5/8	5/8" with quick connect
BRU00256	GTC-210Q-7/16	7/16" with quick connect
BRU00257	GTC-210Q-7/8	7/8" with quick connect
BRU00258	GTC-210Q-9/16	9/16" with quick connect

# Tools and Test Equipment

## Brushes by Goodway

### GTC Brushes for smooth bore tubes

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
BRU00189	GTC-211-1	1" nylon brush for small bore tubes, for use with RAM-4-60, RAM-5SF-60-3 and RAM-6-60
BRU00188	GTC-211-1/2	1/2" nylon brush for small bore tubes, for use with RAM-4-60, RAM-5SF-60-3 and RAM-6-60
BRU00202	GTC-211-1/4	1/4" nylon brush for small bore tubes, for use with RAM-4-60, RAM-5SF-60-3 and RAM-6-60
BRU00170	GTC-211-11/16	11/16" nylon brush for small bore tubes, for use with RAM-4-60, RAM-5SF-60-3 and RAM-6-60
BRU00203	GTC-211-13/16	13/16" nylon brush for small bore tubes, for use with RAM-4-60, RAM-5SF-60-3 and RAM-6-60
BRU00204	GTC-211-15/16	15/16" nylon brush for small bore tubes, for use with RAM-4-60, RAM-5SF-60-3 and RAM-6-60
BRU00171	GTC-211-3/4	3/4" nylon brush for small bore tubes, for use with RAM-4-60, RAM-5SF-60-3 and RAM-6-60
BRU00186	GTC-211-3/8	3/8" nylon brush for small bore tubes, for use with RAM-4-60, RAM-5SF-60-3 and RAM-6-60
BRU00259	GTC-211-5/16	5/16" blue nylon brush
BRU00169	GTC-211-5/8	5/8" nylon brush for small bore tubes, for use with RAM-4-60, RAM-5SF-60-3 and RAM-6-60
BRU00205	GTC-211-7/16	7/16" nylon brush for small bore tubes, for use with RAM-4-60, RAM-5SF-60-3 and RAM-6-60
BRU00206	GTC-211-7/8	7/8" nylon brush for small bore tubes, for use with RAM-4-60, RAM-5SF-60-3 and RAM-6-60
BRU00168	GTC-211-9/16	9/16" nylon brush for small bore tubes, for use with RAM-4-60, RAM-5SF-60-3 and RAM-6-60
BRU00187	GTC-211Q-1	1" nylon brush for small bore tubes with quick connect fittings
BRU00260	GTC-211Q-1/2	1/2" blue nylon brush with quick connect
BRU00178	GTC-211Q-11/16	11/16" nylon brush for small bore tubes with quick connect fittings, for use with RAM-4-60, RAM-5SF-60-3 and RAM-6-60 with quick connect flexible shaft
BRU00261	GTC-211Q-13/16	13/16" blue nylon brush with quick connect
BRU00262	GTC-211Q-15/16	15/16" blue nylon brush with quick connect
BRU00179	GTC-211Q-3/4	3/4" nylon brush for small bore tubes with quick connect fittings, for use with RAM-4-60, RAM-5SF-60-3 and RAM-6-60 with quick connect flexible shaft
BRU00177	GTC-211Q-5/8	5/8" nylon brush for small bore tubes with quick connect fittings, for use with RAM-4-60, RAM-5SF-60-3 and RAM-6-60 with quick connect flexible shaft
BRU00263	GTC-211Q-7/16	7/16" blue nylon brush with quick connect
BRU00264	GTC-211Q-7/8	7/8" blue nylon brush with quick connect
BRU00176	GTC-211Q-9/16	9/16" nylon brush for small bore tubes with quick connect fittings, for use with RAM-4-60, RAM-5SF-60-3 and RAM-6-60 with quick connect flexible shaft

### SGB and ESGB Spin-Grit Brushes



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
BRU00193	ESGB-050	Dual-diameter Spin-Grit brush for tubes 1/2" (12.7mm) I.D.
BRU00184	ESGB062	Dual-diameter Spin-Grit brush for tubes 5/8" I.D.
BRU00194	ESGB-075	Dual-diameter Spin-Grit brush for tubes 3/4" (19.1mm) I.D.
BRU00190	ESGB-100	Dual-diameter Spin-Grit brush for tubes 1" (2.4mm) I.D.
BRU00213	ESGB-125	Spin-Grit brush enhanced for 1 1/4" ID tubes
BRU00214	ESGB-Q-050	Spin-Grit brush enhanced for 1/2" ID tubes w/quick connect
BRU00215	ESGB-Q-062	Spin-Grit brush enhanced for 5/8" ID tubes w/quick connect
BRU00216	ESGB-Q-075	Spin-Grit brush enhanced for 3/4" ID tubes w/quick connect
BRU00217	ESGB-Q-100	Spin-Grit brush enhanced for 1" ID tubes w/quick connect
BRU00218	ESGB-Q-125	Spin-Grit brush enhanced for 1 1/4" ID tubes w/quick connect
BRU00207	SGB-050	Spin-Grit brush for tubes 1/4"-3/8" (6.4-9.5mm) I. D.
BRU00172	SGB-075	Spin-Grit brush for tubes 7/16"-5/8"
BRU00173	SGB-100	Spin-Grit brush for tubes 11/16"-3/4"
BRU00191	SGB-125	Spin-Grit brush for tubes 13/16"-1"(20.6-25.4mm) I.D.
BRU00180	SGB-Q-075	Spin-Grit brush for tubes 7/16"-5/8"
BRU00181	SGB-Q-100	Spin-Grit brush for tubes 11/16"-3/4"
BRU00266	SGB-Q-125	Spin-Grit brush for tubes 13/16" with quick connect

**Brushes by Goodway**

**The Patriot Dual-Diameter Nylon Brush for tubes 5/8" (15.9mm) I.D.**



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
BRU00175	ENN-062	5/8" dual-diameter enhanced nylon brush
BRU00183	ENN-062-Q	5/8" dual-diameter enhanced nylon brush

**The Rebel Dual Diameter Brass Brush for tubes 5/8" (15.9mm) I.D.**



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
BRU00174	EBB-062	5/8" brass dual-diameter brush
BRU00182	EBB-062-Q	5/8" brass dual-diameter brush

**Flexible Shafts by Goodway**

**Nylon Casing**

15' for tubes 1" I.D. and up

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
SHF02909	GTC-720-15	15' flexible shaft for tubes 1" I.D. and up
SHF02915	GTC-720-25	25' flexible shaft for tubes 1" ID and up

For tubes 1/4" – 3/8" (6.4-9.5mm) I.D.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
SHF02763	GTC-701-12	12' flexible shaft for 1/4"-3/8" ID tubes
SHF02764	GTC-701-25	25' flexible shaft for 1/4"-3/8" ID tubes

For tubes 11/16"-1" (17.5-25.4mm) I.D.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
SHF02781	GTC-704-12	12' flexible shaft
SHF02782	GTC-704-17	17' flexible shaft
SHF02741	GTC-704-25	25' flexible shaft
SHF02742	GTC-704-35	35' flexible shaft
SHF02783	GTC-704-35-R5	35' flexible shaft for RAM-5 with quick connect
SHF02743	GTC-704-45	45' flexible shaft
SHF02784	GTC-704-45-R5	45' flexible shaft for RAM-5 with quick connect
SHF02785	GTC-704-60	60' flexible shaft
SHF02786	GTC-704-60-R5	60' flexible shaft for RAM-5 with quick connect
SHF02787	GTC-704-75	75' flexible shaft

For tubes 11/16"-1" (17.5-25.4mm) I.D. with quick connect fittings

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
SHF02788	GTC-704Q-12	12' flexible shaft with quick connect
SHF02789	GTC-704Q-17	17' flexible shaft with quick connect
SHF02751	GTC-704Q-25	25' flexible shaft
SHF02752	GTC-704Q-35	35' flexible shaft
SHF02790	GTC-704Q-35-R5	35' flexible shaft for RAM-5 with quick connect
SHF02753	GTC-704Q-45	45' flexible shaft
SHF02791	GTC-704Q-45-R5	45' flexible shaft for RAM-5 with quick connect
SHF02792	GTC-704Q-60	60' flexible shaft with quick connect
SHF02793	GTC-704Q-60-R5	60' flexible shaft for RAM-5 with quick connect

For tubes 7/16" – 1/2" (11.1-12.7mm) I.D.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
SHF02765	GTC-702-12	12' flexible shaft for 7/16"-1/2" ID tubes
SHF02766	GTC-702-17	17' flexible shaft for 7/16"-1/2" ID tubes
SHF02760	GTC-702-25	25' flexible shaft for tubes 7/16"-1/2" (11.1-12.7mm)
SHF02761	GTC-702-35	35' flexible shaft (nylon casing) (10.7m) for tubes 7/16"-1/2" (11.0-12.7mm) I.D.
SHF02767	GTC-702-45	45' flexible shaft for 7/16"-1/2" ID tubes

# Tools and Test Equipment

## Flexible Shafts by Goodway

### Nylon Casing

For tubes 7/16" – 1/2" (11.1-12.7mm) I.D. with quick connect fitting

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
SHF02768	GTC-702Q-12	12' flexible shaft for 7/16"- 1/2" ID tubes w/quick connect
SHF02769	GTC-702Q-17	17' flexible shaft for 7/16"-1/2" ID tubes w/quick connect
SHF02770	GTC-702Q-25	25' flexible shaft for 7/16"-1/2" ID tubes w/quick connect
SHF02771	GTC-702Q-35	35' flexible shaft for 7/16"-1/2" ID tubes w/quick connect
SHF02772	GTC-702Q-45	45' flexible shaft for 7/16"-1/2" ID tubes w/quick connect

For tubes 9/16"-1" (14.3-25.4mm) I.D.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
SHF02773	GTC-703-12	12' flexible shaft
SHF02762	GTC-703-17	17' flexible shaft
SHF02734	GTC-703-25	25' flexible shaft
SHF02735	GTC-703-35	35' flexible shaft
SHF02736	GTC-703-35-R5	35' flexible shaft for RAM-5
SHF02737	GTC-703-45	45' flexible shaft
SHF02738	GTC-703-45-R5	45' flexible shaft for RAM-5
SHF02774	GTC-703-60	60' flexible shaft
SHF02739	GTC-703-60-R5	60' flexible shaft for RAM-5
SHF02775	GTC-703-75	75' flexible shaft
SHF02776	GTC-703-75-R5	75' flexible shaft for RAM-5

For tubes 9/16"-1" (14.3-25.4mm) I.D. with quick connect fitting



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
SHF02777	GTC-703Q-12	12' flexible shaft with quick connect
SHF02778	GTC-703Q-17	17' flexible shaft with quick connect
SHF02745	GTC-703Q-25	25' flexible shaft
SHF02746	GTC-703Q-35	35' flexible shaft
SHF02747	GTC-703Q-35-R5	35' flexible shaft for RAM-5
SHF02779	GTC-703Q-45	45' flexible shaft with quick connect
SHF02748	GTC-703Q-45-R5	45' flexible shaft for RAM-5
SHF02780	GTC-703Q-60	60' flexible shaft with quick connect
SHF02749	GTC-703Q-60-R5	60' flexible shaft for RAM-5

## Flexible Shafts Maintenance and Repair

### Repair Kits

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
KIT07643	REP-701-KIT	Repair Kit for GTC701 shafts
KIT07644	REP-702-KIT	Repair Kit for GTC702 shafts
KIT07646	REP-702Q-KIT	Repair Kit for GTC702 shafts with quick connect
SHF02740	REP-703-KIT	Repair Kit
SHF02750	REP-703Q-KIT	Repair Kit
SHF02744	REP-704-KIT	Repair Kit
SHF02754	REP-704Q-KIT	Repair Kit

## Goodway Pressure Washers

### GPW-1000



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
TOL01726	GPW-1000-60	Hi-Pressure Washer, 115V, 60 Hz, includes 3' wand, 25' high pressure hose, 5 quick disconnect nozzles, soap container and dolly (1,000 psi at 2.2 gpm)

Tools and Test Equipment

**Goodway Pressure Washers**

**GPW-1200**



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
TOL01679	GPW-1200-60	Portable Hi-Pressure Washer, 1.7 HP, 115V, 60 Hz, includes 3" wand, 25' high pressure hose, variable pressure nozzle and soap container (1,250 psi at 1.8 gpm)

**Goodway Ream-A-Matic Tube Cleaners**



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
TOL01659	RAM-4-60	Ream-A-Matic Tube Cleaner, 1/2HP, 115V, 60 Hz, includes mobile dolly, tool storage box and foot switch
TOL01746	RAM-4-60-R	Ream-A-Matic Tube Cleaner, 1/2 HP, (0.4KW), 115V, 60 Hz, includes mobile dolly, tool storage box and two-directional foot switch
TOL01747	RAM-4-60-C	Ream-A-Matic Tube Cleaner, 1/2HP, 115V, 60 Hz, includes tool storage box, single direction foot switch and heavy-duty contractor dolly
TOL01787	RAM-4-60-R-C	Ream-A-Matic Tube Cleaner, 1/2HP, 115V, 60 Hz, includes tool storage box, two-directional foot switch and contractor dolly
TOL01741	RAM-4A-50	Ream-A-Matic Tube Cleaner, 1/2HP, 220V, 50 Hz, includes mobile dolly, tool storage box and foot switch
TOL01860	RAM-4-BASE-60	Ream-A-Matic Tube Cleaner, w/o dolly, 1/2HP, 115V, 60 Hz, includes tool storage box, and single directional foot switch
TOL01861	RAM-4-BASE-60-R	Ream-A-Matic Tube Cleaner, w/o dolly, 1/2HP, 115V, 60 Hz, includes tool storage box and double directional foot switch
TOL01734	RAM-4X-60-2	Ream-A-Matic Heavy-Duty Tube Cleaner, 1 HP, 115V, 60 Hz, includes mobile dolly, tool storage box, foot switch and 2:1 drier ratio
TOL01660	RAM-5SF-60-3	Ream-A-Matic Tube Cleaner, 3/4HP, 115V, 60 Hz, includes speed-feed gun, 15 ft (4.6mm) guide hose, one set of shaft feeder gears, for GTC703 series flexible shaft, mobile dolly, tool storage box and foot switch
TOL01661	RAM-6-60	Ream-A-Matic Tube Cleaner, 1 1/2 HP, 115V, 60 Hz, includes contractor dolly, storage box, and foot switch
TOL01745	RAM-PTC-60	Port-A-Ram Tube Cleaner, 1/2HP, 115V, 60 Hz, single direction, direct drive, 1725 RPM
TOL01748	RAM-5SF-60-3-C	Ream-A-Matic Tube Cleaner, 3/4HP, 115V, 60 Hz, included speed-feed gun, 15 ft guide hose, one set of shaft feeder gears for GTC703 series flexible shafts, tool storage box, foot switch and heavy-duty contractor dolly

**Tools and Test Equipment**

**Goodway Vacuums**



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
TOL01896	EV-30	Includes filter, 8.4 gal stainless steel tank, 8 1/2" vinyl crush-proof hose, three-piece wand, 16" floor brush, 16" squeegee, 3" dusting brush and 9 1/2" crevice tool
TOL01898	EV-30-H	Includes 99.97% H.E.P.A. filter assembly, 10.6 gal stainless steel tank, 8 1/2" vinyl crush-proof hose, three-piece wand, 16" floor brush, 16" squeegee, 3" dusting brush and 9 1/2" crevice tool; dry use only
TOL01897	EV-60-P	Includes 20.6 gal stainless steel tank with internal pump, 8 1/2" vinyl crush-proof hose, three-piece wand and 16" squeegee tool; wet use only
TOL02078	CTV-1500-60	Cooling tower vacuum, 1 HP, 115V, 60 Hz, includes sediment filter, two 15' hoses, single-bend 24" wand, two 36" extension tubes, 12" floor tool and 5" utility nozzle
TOL02079	CTV-1500A-60	Cooling tower vacuum, 1 HP, 230V, 60 Hz, includes sediment filter, two 15' hoses, single-bend 24" wand, two 36" extension tubes, 12" floor tool and 5" utility nozzle

# Tools and Test Equipment

## OEM Repair Kits

### Trane and American Standard Furnace Repair Kit

SERVICEFIRST ITEM NO		DESCRIPTION
CNT02184	CNT02184	Control; integrated 2 stage
SERVICEFIRST ITEM NO		DESCRIPTION
CNT02536	CNT02536	Control; integrated variable speed, 25 vac, 60Hz
SERVICEFIRST ITEM NO		DESCRIPTION
CNT02871	CNT02871	Control; IFC, 2 stage

SERVICEFIRST ITEM NO		DESCRIPTION
CNT03077	CNT03077	Control; integrated, 2 stage, SINI

SERVICEFIRST ITEM NO		DESCRIPTION
CNT03078	CNT03078	Control; integrated, 2 stage, variable, SINI

SERVICEFIRST ITEM NO		DESCRIPTION
CNT04677	CNT04677	Control; integrated furnace control (ifc), 50V60

SERVICEFIRST ITEM NO		DESCRIPTION
CNT04678	CNT04678	Control; integrated furnace control (ifc), 50V64

SERVICEFIRST ITEM NO		DESCRIPTION
FTG00173	FTG00173	Fitting; hose barb, vented

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
KIT14635	KIT14635	Kit; furnace repair, Trane and American Standard OEM items for use on the following models: *UE-A, *DD-C, *DE-A, *UD-A, B, C, *UX-B,C

We also recommend the following OEM parts to support the Trane and American Standard variable speed and two stage furnace models.

SERVICEFIRST ITEM NO		DESCRIPTION
TRR01729	TRR01729	Transformer; 115V PRI, 24V sec., 60Hz, 35VA, foot mount, sound/vibration isolating gasket

SERVICEFIRST ITEM NO		DESCRIPTION
VAL08027	VAL08027	Valve; gas, non direct vent 2 stage, .50 x .50 connections, without barbed hose fitting, "G" series

SERVICEFIRST ITEM NO		DESCRIPTION
VAL08055	VAL08055	Valve; gas, direct vent 2 stage, .50 x .50 connections, w/ barbed hose fitting, "G" series

### Trane and American Standard Oil Furnace Parts

SERVICEFIRST ITEM NO		DESCRIPTION
CEL00089	CEL00089	Cell; cad

We also recommend the following OEM parts to support the Trane and American Standard oil furnaces.

SERVICEFIRST ITEM NO		DESCRIPTION
CNT04355	CNT04355	Control; fan and limit

SERVICEFIRST ITEM NO		DESCRIPTION
CNT04356	CNT04356	Control; primary

SERVICEFIRST ITEM NO		DESCRIPTION
CNT04358	CNT04358	Control; fan center



OEM Repair Kits

Trane and American Standard Oil Furnace Parts

SERVICEFIRST ITEM NO		DESCRIPTION
CPL01056	CPL01056	Coupling; oil pump
SERVICEFIRST ITEM NO		DESCRIPTION
ELC00067	ELC00067	Electrode; oil burner
SERVICEFIRST ITEM NO		DESCRIPTION
IGN00119	IGN00119	Ignitor

Toolbox containing an assortment of Defrost Controls, Sensors, Sump Heaters, Contactors, Term. Stat's and LP Controls used to repair most Trane and American Standard Heat Pumps.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
KIT14636	KIT14636	Kit; heat pump repair, Trane and American Standard OEM items for use on the following models: 2A6B, 2A6H2, 2A6H3, 2A6H4, 2A6H5, 4A6H6, 2TWB, 2TWR3, 2TWR4, 2TWX4, 2TWX5, 4TWR4, 4TWX4, 4TWX6
SERVICEFIRST ITEM NO		DESCRIPTION
MOT11982	MOT11982	Motor; burner
SERVICEFIRST ITEM NO		DESCRIPTION
NOZ00836	NOZ00836	Nozzle; .60-80 degree
SERVICEFIRST ITEM NO		DESCRIPTION
NOZ00837	NOZ00837	Nozzle; .75-80 degree (installed)
SERVICEFIRST ITEM NO		DESCRIPTION
NOZ00838	NOZ00838	Nozzle; .85-80 degree (installed)
SERVICEFIRST ITEM NO		DESCRIPTION
NOZ00839	NOZ00839	Nozzle; 1.00-80 degree
SERVICEFIRST ITEM NO		DESCRIPTION
PMP01678	PMP01678	Pump

Tools and Test Equipment

Raytek



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
TOL01412	ST20XX	Non-contact thermometer, 12:1 view, -25°F to 75°F, laser sight, includes case
KIT06566	RAYMTAPK	Raytek Minitemp assembly kit with wrist strap and pouch

Refrigerant Handling

Fahrenheit Brute 4-valve Series with 1/2" or 3/8" vacuum ports

Brute 4-Valve with 3/8" Vacuum Port

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	Gauge	Hoses	Hi & Lo	Gauge Scales
MFD00922	46540	Manifold; 4-Valve Brute With Gauges, R134A, 404A, 507, No Hoses	2 1/2" R&B	Manifold only	1/4"	R-134a, R-507, R-404A
MFD00923	47712	Manifold; 4 Valve Brute With Gauges, R410A, No Hoses	2 1/2" R&B	Manifold only	1/4"	R-410A

# Tools and Test Equipment

## Refrigerant Handling

### O-Ring Lubricant



Specially formulated lubricant for use when replacing "O"-rings or pistons in manifolds.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
LUB00042	41118	"O"-Ring Lubricant .75 OZ.

### "Series 41" Test and Charging Manifold

#### "Series 41" Manifold with 3-1/8" Gauges

R-22/134A/404A, Refrigeration Manifold



- A choice of three different refrigerant combinations to measure three refrigerants with one manifold:
  - R-12, R-22, R-404A
  - R-12, R-22, R-134A
  - R-12, R-404A, R-410A
- Large 3-1/8" gauges feature steel cases with polycarbonate crystal:
  - Color-coded scales.
  - Larger dials are bold and easy to read.
- Dials with 1% accuracy (Class 1) full scale movement provide the level of accuracy necessary for critical charge systems.
- Proven sliding double "O"-ring pistons reduce wear.
- Long life nylon seats.
- Forged brass body for durability.
- Full porting maximizes capacity and flow.
- Full-size metal valve handle for easy operation.
- Some models include color-coded, 60" Plus II™ hoses with standard 1/4" flare fitting.
- Hose assemblies UL recognized for 4000 PSI (275 Bar) burst and 800 PSI (55 Bar) working pressure.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
MFD01064	42005	Manifold Only (in clamshell)

R22/404A/410A/ Refrigeration Manifold



- A choice of three different refrigerant combinations to measure three refrigerants with one manifold:
  - R-12, R-22, R-404A
  - R-12, R-22, R-134A
  - R-12, R-404A, R-410A
- Large 3-1/8" gauges feature steel cases with polycarbonate crystal:
  - Color-coded scales.
  - Larger dials are bold and easy to read.
- Dials with 1% accuracy (Class 1) full scale movement provide the level of accuracy necessary for critical charge systems.
- Proven sliding double "O"-ring pistons reduce wear.
- Long life nylon seats.
- Forged brass body for durability.
- Full porting maximizes capacity and flow.
- Full-size metal valve handle for easy operation.
- Some models include color-coded, 60" Plus II™ hoses with standard 1/4" flare fitting.
- Hose assemblies UL recognized for 4000 PSI (275 Bar) burst and 800 PSI (55 Bar) working pressure.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
MFD01049	42001	Manifold Only (in clamshell)
MFD01050	42004	With 60" Plus IITM RYB Hose
GAG00979	49138	Replacement Gauges

### 1/4" 4-in-1 Ball Valve Tool for vacuum, charge, cores and recovery



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
TOL01431	18974	Broken Schrader Remover Acc.
KIT12244	18978	Seal Kit Incl. Core, Cap, 4 "O"-Rings, Gasket
TOL01430	18979	Schrader Rethreading Accessory

## Refrigerant Handling

### 1/4" Ball Valve 4-in-1 Vacuum/Charge Valve & Core Tool



This versatile tool for the low or high side of a system does four jobs:

1. **Vacuum valve.** Extra 1/4" side port on 18975 to attach electronic micron vacuum gauge right at system for greater accuracy.
2. **Core removal access.** Lets you evacuate and charge through an unrestricted line for increased speed and higher vacuum.
3. **Core replacement.**
4. **Recovery valve.** Core removal speeds recovery process.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
TOL02115	18971	Vacuum/Charge Ball Valve

## 9" FlexFlow™ and Low Loss Adapter Hoses

### Compact Ball Valve Assemblies



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
VAL07199	93844	Full Control Ball Valve for Vacuum/Charging, 1/4" SAE, M.fl. x Fe. Fl.



Easy retrofit of existing *Plus II* hoses with ball valve capabilities. Flexible hose between valve and fitting for handling in tight areas.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
VAL07572	29001	1/4" Yellow Ball Valve Adapter
VAL08311	29201	1/4" Blue Ball Valve Adapter
HSE01483	29601	1/4" Red Ball Valve Adapter
HSE01365	29980	3-Pak: 29001, 29201, 29601
VAL07517	93842	1/4" Compact Ball Valve – 3 Pak
VAL07476	93843	1/4" Compact Ball Valve – 45°

### FlexFlow™ Assemblies



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
ADP00919	25002	1/4" Yellow FlexFlow Adapter
HSE01226	25802	1/4" Heavy Duty FlexFlow Adapter Hose
HSE01228	25980	6" FlexFlow Adapter Hoses, 3-Pak consisting of 25002, 25202, 25602 Hoses

Easy retrofit of existing *Plus II* hoses with ball valve capabilities. Flexible hose between valve and fitting for handling in tight areas.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
HSE01361	25001	Replacement Yellow Hose Only
VAL07316	93833	1/4" Replacement Ball Valve
HSE01247	25202	1/4" Blue Flexflow Adapter
HSE01248	25602	1/4" Red Flexflow Adapter
HSE01227	26002	3/8" Heavy Duty Flexflow Adapter
ADP00982	27002	ACME 1/2" Yellow Flexflow Adapter

## Adapter Cord/Test Connector



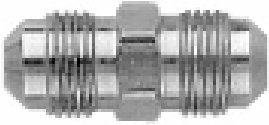
12-inch lead using number 14-3 wire and female plug one end. Three large clips other end with red, black and green insulators. 120/240 Volts AC.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	Product Information		
			Max Amps	Clip Size	Replaces
TOL01436	69522	Tool; Adaptor Cord, Test Connector, 15 Amp, Large Clip Size	15 Amp	Large	Annie CA-220- & HI TL11

# Tools and Test Equipment

## Refrigerant Handling

### Add-A-Hose Couplers Unions



Add-a-hose couplers easily connect hoses to the length desired.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	Male flare
CPL00956	19148	Coupling, 1/2 In M Fl X 1/2 In M Fl Add-A-Hose Coupler	1/2"

### Automotive A/C Fittings Couplers

Adapter fitting designed to work with 1/2" Acme or 14 mm threads.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
FTG00865	19157	14 Mm M. X 1/4" Male Fl.

### Automotive R-134a A/C Couplers - Economy



A basic coupler to snap onto R-134a service parts. Instant flow. Convert your R-12 hoses for R-134a service.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
GKT04051	41305	Replacement O-Ring Set (6 Pc.)
CPL00957	41317	Hi Side Coupler W/ 1/4" Flare
CPL00958	41318	Lo Side Coupler W/ 1/4" Flare

### Automotive R-134a A/C Couplers - Premium



Couplers interface with R-134a service ports. 14mm female thread or 1/4" and 3/8" male flare available.

- Quick, easy connect/disconnect.
- Control valve for access to systems even at working pressures.
- Integral safety sleeve holds coupler securely to service port.
- Highest flow characteristics.
- Low profile for tight applications.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
CPL00929	41301	Chrome Hi Side X 14mm R-134A Couplers
CPL01084	41302	Chrome Lo Side X 14mm R-134A Couplers
CPL01005	41327	Hi Side X 3/8" M.Fl., R-134A Couplers
CPL00959	41337	Hi Side X 1/4" M.Fl., R-134A Couplers
CPL00960	41338	Lo Side X 1/4" M.Fl., R-134A Couplers

### Automotive R-134a Manifold

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
MFD00974	41343	Auto Only R-134A Manifold 60" Hose With 1/2" ACME Fittings And 14mm Fittings, Hose Anchors

### Bantam Replacement Parts

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
HDL00932	41051	Handle, Yellow
HDL00933	41052	Handle, Blue
PST00112	41053	Piston/O'-Ring/Seal (Set Of 2)
HDL00934	41054	Handle, Red
RNG01829	41055	"O" Rings 10 Pack
FTG00970	41059	1/4" Anchor Fittings

Refrigerant Handling

Brute™ II Test & Charging Manifold - °F

Brute™ II 4-Valve Commercial with Increased Capacity—larger ports



SERVICEFIRST ITEM NO	VENDOR ITEM NO	Vac Port	Hi, Lo Charge	Gauge	Hoses
MFD01135	46090	3/8"	3/8"	Red/Blue	Manifold Only
MFD01136	46091	1/2"	3/8"	Liquid	Manifold Only
MFD01137	46092	3/8"	3/8"	Red/Blue	4@ 3/8" x 60" Heavy Duty - Str. x 45°
MFD01138	46094	1/2"	3/8"	Liquid	3@ 3/8" x 60" Heavy Duty - Str. x 45° 1@ 1/2" x 60" Heavy Duty - Str. x Str.

R-12, R-22, R-502



BRUTE™ II 4-Valve Manifolds 3-1/8" (80 mm) °F Gauges-Steel Case (with protective gauge boots) or Liquid-Filled

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Vac Port	Hi, Lo Charge	Gauge	Hoses
MFD01120	46080	3/8"	3/8"	Red/Blue	Manifold Only
MFD01103	46081	1/2"	3/8"	Liquid	Manifold Only
MFD01121	46082	3/8"	3/8"	Red/Blue	4@ 3/8" x 60" Heavy Duty - Str. x 45°
MFD01102	46084	1/2"	3/8"	Liquid	3@ 3/8" x 60" Heavy Duty - Str. x 45° 1@ 1/2" x 60" Heavy Duty - Str. x Str.

Brute™ II 4-Valve with 3/8" Vacuum Port

R-12, R-22, R-502



BRUTE™ II 4-Valve Manifolds 3-1/8" (80 mm) °F Gauges-Steel Case (with protective gauge boots) or Liquid-Filled

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Vac Port	Hi, Lo Charge	Gauge	Hoses
MFD01099	46020	3/8"	1/4"	Red/Blue	Manifold Only
MFD01100	46021	3/8"	1/4"	Liquid	Manifold Only
MFD01109	46022	3/8"	1/4"	Red/Blue	60" Plus II™ RYB & 3/8" x 45°
MFD01101	46026	3/8"	1/4"	Liquid	72" Plus II™ RYB & 3/8" x 45°

R-134a, R-404A, R-407C

BRUTE™ II 4-Valve Manifolds 3-1/8" (80 mm) °F Gauges-Steel Case (with protective gauge boots) or Liquid-Filled

SERVICEFIRST ITEM NO	VENDOR ITEM NO	PART NO	Gauge	Hoses
MFD01145	46030	3/8"	Red/Blue	Manifold Only
MFD01112	46031	3/8"	Liquid	Manifold Only
MFD01113	46032	3/8"	Red/Blue	60" Plus II™ RYB & 3/8" x 45°
MFD01107	46038	3/8"	Liquid	72" Plus II™ RYB & 3/8" x 45°

R-22, R-404A, R-410A



SERVICEFIRST ITEM NO	VENDOR ITEM NO	PART NO	Gauge	Hoses
MFD01117	46010	3/8"	Red/Blue	Manifold Only
MFD01118	46011	3/8"	Liquid	Manifold Only
MFD01119	46013	3/8"	Red/Blue	60" Plus II™ Compact Ball Valve - RYB & 3/8" x 45°

# Tools and Test Equipment

## Refrigerant Handling

### Brute™ II Test & Charging Manifold - °F

Brute™ II 4-Valve with 3/8" Vacuum Port

R-22,R-134a,R-405A



SERVICEFIRST ITEM NO	VENDOR ITEM NO	PART NO	Gauge	Hoses
MFD01122	46040	3/8"	Red/Blue	Manifold Only
MFD01123	46041	3/8"	Liquid	Manifold Only
MFD01114	46042	3/8"	Red/Blue	60" Plus II™ RYB & 3/8" x 45°
MFD01133	46043	3/8"	Red/Blue	60" Plus II™ Compact Ball Valve - RYB & 3/8" x 45°
MFD01134	46048	3/8"	Liquid	72" Plus II™ RYB & 3/8" x 45°

R-410A



BRUTE™ II 4-Valve Manifolds 3-1/8" (80 mm) °F Gauges-Steel Case (with protective gauge boots) or Liquid-Filled

SERVICEFIRST ITEM NO	VENDOR ITEM NO	PART NO	Gauge	Hoses
MFD01106	46000	3/8"	Red/Blue	Manifold Only
MFD01115	46001	3/8"	Liquid	Manifold Only
MFD01116	46003	3/8"	Red/Blue	60" Plus II™ Compact Ball Valve - RYB & 3/8" x 45°

### Brute™ Manifold Replacement Parts

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
KIT08015	41116	Brute™ Overhaul Kit (4 Pistons & 4 Screens)

### Deluxe Flaring Tool - full range 1/8" to 3/4" O.D.



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	Capacity
TOL01405	60280	Deluxe Flaring Tool	1/8" to 3/4"

### Digital Sling Psychrometers



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
TOL01397	69008	Digital Thermo Psychrometer

### Dolium Grease by Shell



Straight grease fittings with different threads. 4-way tool rethreads, removes and installs grease fittings. Hoses also available.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	Qty
HSE01319	90363	Grease Hose 12"	1
HSE01320	90364	Grease Hose 18"	1
CPL01076	90365	Grease Gun Coupler	1
FTG00999	90372	Std. Fitting 1/8" NPT	10
FTG01000	90373	Std. Fitting 1/4" NPT	10

Refrigerant Handling

Dye and Oil Injectors



Body and cap are rugged aluminum with an O-ring seal. 1/4" male fitting at one end with Schrader. A ball valve for control on other end with a short length of hose. Valve depressor in 1/4" female end. 600 psi working pressure. Saves time on many applications:

- Add oil to system.
- Put oil in after changeout.
- Add scanner fluorescent solution.
- Add additives to system.
- Refrigerant sampling.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
TOL01532	69562	4 OZ. Oil Injector

Ergonomic FinFix™ COMBS for 14 different fin sizes



Improved shape conforms to the hand and thumb for more comfortable grip. Color coded nylon fin combs are designed to easily straighten and clean fins on standard and high efficiency condensers and evaporators. Available individually bagged, or as a set of 6 assorted. One set of 6 covers 12 different fin sizes. Also bulk bag of 25 of the same size. Newest comb, 61157, is for high efficiency units.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	Fins per inch	Color
TOL01941	60211	Finfix 5	16 and 17	Lime
TOL01862	61151	Finfix 1	8 and 10	Orange
TOL01863	61152	Finfix 2	9 and 15	Yellow
TOL01864	61153	Finfix 3	11 and 13	Blue
TOL01865	61154	Finfix 4	12 and 14	Green
TOL01866	61156	Finfix 6	18 and 20	Red
TOL01867	61157	Finfix 7	21/22 and 23/24	Purple
TOL02225	61164	Finfix 4	12 and 14	Green
TOL01496	61167	Finfix 7	21/22 and 23/24	Purple

EVAC Electromechanical

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Item Description	Qty
CAB00889	EMI400	50Amp 480V Receptical	1

Flame Inspection Mirrors - stainless telescoping



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
TOL01545	78100	Round 3 3/4" Diameter
TOL01546	78101	Rectangular 3 3/4" X 2"
TOL02033	78102	Rectangular 2" X 1 1/4"

Fold-up Hex Key Sets



Locate the correct key size easily. For rugged use, each key is premium 8650 heat-treated steel alloy.

Other features:

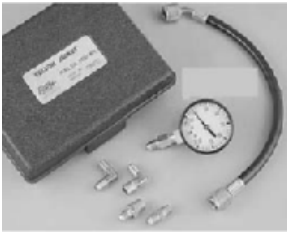
- Chamfered square cut ends for easy socket insertion.
- Corrosion-resistant finish.
- Smooth one-piece handle with sizes clearly marked.
- Keys snap to work position for leverage and fold into handle for compact storage.
- Replacement keys available.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
TOL01502	60700	Hex Key Set – 8 Sizes - .050, 1/16 5/64, 3/32, 7/64, 1/8, 9/64, 5/32"
TOL01503	60710	Hex Key Set–9 Sizes - 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4"

# Tools and Test Equipment

## Refrigerant Handling

### Fuel Oil Test Kit



Complete kit to determine pump efficiency, cut-off, suction etc. Also use to analyze or trouble shoot burner efficiency. Kit includes 2" gauge, 30" 0-150 lbs. scale, and 12" YELLOW JACKET hose with fittings.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
TOL01425	78020	Complete Fuel Oil Gauge Kit

### Full Control Ball Valves for Vacuum/Charging

M. fl. X Fe. fl.



When building your own charging/vacuum system, these straight flowthrough valves connect hoses and provide full-flow capacity. No angles to cause restrictions and pressure drops. Handle position shows when the valve is opened, securely closed and anywhere between.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
VAL07203	93846	3/8" SAE*
VAL07319	93848	1/2" SAE*

M. fl. X M. fl.



When building your own charging/vacuum system, these straight flowthrough valves connect hoses and provide full-flow capacity. No angles to cause restrictions and pressure drops. Handle position shows when the valve is opened, securely closed and anywhere between.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
VAL07434	93830	ACME 1/2**
VAL07200	93834	1/4" SAE*
VAL07320	93836	3/8" SAE*
VAL07321	93838	1/2" SAE*

### Full Range Heavy Duty Tube Benders for 1/4" to 7/8" radius



60390 is a compact three-in-one bender for 1/4", 5/16" and 3/8" O.D. tubing. Calibrated markings for bends up to 180° help you duplicate angles.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	Bending Radius
TOL01515	60390	1/4"-5/16"-3/8" 3-In-1 Tube Bender	15/16"

### Gas control valve



Sturdy valve controls refrigerant flow from access fitting. Closes Schrader before disconnecting. New back seat valve feature to retain gas in hose when disconnecting.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
VAL07202	18993	Gas Control Valve

### Gas Test Gauge — 1/2" 3/4" and 1" pipe



Easy-to-read gauge to test system pressure for leaks in new installations. Pressure drop on 2" gauge indicates leakage. 0-30 gauge is in 1/4 lb. increments and 0-15 is in 1/5 lb increments to meet some local inspection regulations.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
GAG00947	78077	Test Unit 0 - 15 Lb. Gauge 3/4" End

Brass bell



**Refrigerant Handling**

**Glass Mirrors - telescoping**

All mirrors have telescoping feature. Some have clips for pockets and magnifying glass. Replaceable mirrors.

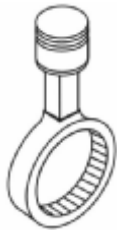
SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	Extension
TOL02085	78098	1 1/4" Round	7" to 19"



All mirrors have telescoping feature. Some have clips for pockets and magnifying glass. Replaceable mirrors.

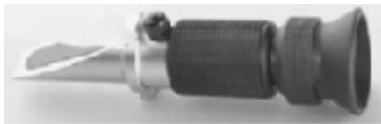
SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	Extension
TOL01763	78094	2 1/4" Round	9 1/4" to 14 1/4"
TOL01501	78103	2" X 3 1/2" Rectangular	11" to 15 1/2"
TOL01547	78104	1" X 2" Oval	7" to 19"
GLS00849	78106	2" X 3 1/2" Rectangular Glass	

**GoldPlus Rebuild Kits**



SERVICEFIRST ITEM NO	VENDOR ITEM NO	Item Description
KIT06834	CPK0001	Complete head assembly
KIT06836	CPK0003	Complete piston assembly

**Hand held Refractometer**



Place sample liquid on prism and close cover. Look through the eyepiece and focus for scale reading. For retrofitting a mineral oil system with Solest® HFC, this field tool can accurately predict remaining mineral oil in the system down to 1%. Acceptable levels of remaining oil depend on compressor/system manufacturer requirements. Refractive range 1.435 to 1.520 at room temperature.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
TOL01504	69000	Hand-Held Refractometer W/Case

**Heavy Duty 45° Flaring Tools 3/16" to 3/4"**



This heavy duty tool, designed for tight places, features:

- Hardened steel flaring bar to resist tube slippage.
- Forged steel yoke that slips over bar and locks with a turn.
- Precision threaded feed screw and long handle to insure smooth and easy operation.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	Capacity
TOL01406	60210	Flaring Tool	3/16, 1/4, 5/16, 3/8 7/16, 1/2, 5/8" O.D.

**Heavy Duty Manifold Gauges (°F) – Class 1 (1% Accuracy) Brass and Chrome - 2 1/2"**

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
GLS00848	49010	Replacement Crystal
GAG00885	49022	Chrome Compound
GAG00893	49061	Brass Pressure
GAG00894	49062	Brass Pressure

# Tools and Test Equipment

## Refrigerant Handling

### Heavy Duty Plus II 3/8" Combition Charging/Hi-Vacuum Hose

#### Most Commonly Selected

3/8" fl. str. x 3/8" fl. str.



Pull a vacuum much faster with this 5/16" I.D. heavy duty hose than with the 1/4" hose.

- Permeation resistant *Plus II* barrier.
- Operating temperature -20° to 200°F.
- Working pressure 750 psi; 3000 psi burst.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	LENGTH
HSE01212	15660	Hose, Heavy Duty Plus II 3/8" Charging/Hi-Vacuum Hose, BC-60	60"
HSE01232	15672	Hose: Heavy Duty Plus II 3/8" Charging/Hi-Vacuum Hose, BC-72	72"
HSE01302	15648	Hose, 3/8" Heavy Duty Plus II Charging/Hi-Vacuum, 3/8 FI X 3/8 FI	48"
HSE01315	15636	Hose, 3/8" Heavy Duty Plus II Charging/Hi-Vacuum Hose	36"
HSE01265	15712	Hose; 3/8" Heavy Duty Plus II Charging/Hi-Vacuum Hose	12'

3/8" fl. str. & FlexFlow

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	LENGTH
HSE01242	26060	Hose; Heavy Duty Plus II 3/8" Charging/Hi-Vacuum Hose W/FlexFlow Valve	60"
HSE01250	26072	Hose; Heavy Duty Plus II 3/8" Charging/Hi-Vacuum Hose W/FlexFlow Fitting	72"
HSE01505	26110	Hose; Heavy Duty Plus II , 3/8" FI Str X FlexFlow	10'

#### Other Selections

1/4" fl. x 1/4" 45°



Pull a vacuum much faster with this 5/16" I.D. heavy duty hose than with the 1/4" hose.

- Permeation resistant *Plus II* barrier.
- Operating temperature -20° to 200°F.
- Working pressure 750 psi; 3000 psi burst.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	LENGTH
HSE01394	20260	Hose; Heavy Duty Plus II 3/8 Inch Charging/Hi-Vacuum Hose	60"
HSE01246	20272	Hose; Heavy Duty Plus II 3/8" Charging/Hi-Vacuum Hose, 1/4" FI. X 1/4" 45 Deg.	72"

3/8" fl. X 1/4" 45°

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	LENGTH
HSE01244	16248	Hose; Heavy Duty Plus II 3/8" Charging/Hi-Vacuum Hose, 3/8 FI X 1/4" 45 Deg	48"
HSE01303	16260	Hose, 3/8" Heavy Duty Plus II Charging/Hi-Vacuum, 3/8 FI X 1/4 45	60"
HSE01279	16272	Hose; 3/8" Heavy Duty Plus II Charging/Hi Vacuum Hose, 1/4" FI X 3/8" Str	72"

#### Most Commonly Selected

3/8" fl. x 3/8" 45°

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	LENGTH
HSE01374	19660	Hose; 3/8" Heavy Duty Plus II Combination Charging/Hi-Vacuum Hose, 3/8 FI X 3/8 FI	60"

Refrigerant Handling

3/8" Plus II "B" Charging Hose now available in colors

Most Commonly Selected

3/8" fl. str. x 3/8" fl. str



Special design puts YELLOW JACKET features in a larger volume 5/16" I.D. hose. Hose now uses Plus II technology which includes double barrier and higher working pressure. Burst pressure is now 3000 psi with working pressure 600 psi. Available with larger selection of fittings to fit customer needs. Also available in red, yellow, and blue.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	LENGTH
HSE01312	14548	Hose; 3/8in Standard 'B' Charging Hose, 48in	48"
HSE01231	14560	Hose;3/8" Standard "B" Charging Hose, 60", B60	60"
HSE01444	14572	Hose; Ritchie 14572 3/8 Inch Plus II Hose, 72 Inch, Yellow	72"
HSE01447	27860	Hose; Ritchie 27860 3/8 Inch Plus II Hose, 60 Inch, Blue	60"
HSE01449	27872	Hose; Ritchie 27872 3/8 Inch Plus II Hose, 72 Inch, Blue	72"
HSE01448	28060	Hose; Ritchie 28060 3/8 Inch Plus II Hose, 60 Inch, Red	60"
HSE01450	28072	Hose; Ritchie 28072 3/8 Inch Plus II Hose, 72 Inch, Red	72"

Other Selections

3/8" fl. str. x 3/8" 45°



Special design puts YELLOW JACKET features in a larger volume 5/16" I.D.hose. Hose now uses *Plus II* technology which includes double barrier and higher working pressure. Burst pressure is now 3000 psi with working pressure 600 psi. Available with larger selection of fittings to fit customer needs. Also available in red, yellow, and blue.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	LENGTH
HSE01293	18160	Hose; 3/8in 'B' Charging Hose, 60in, 3/8in FI X 3/8in FI	60"

Knuckle-Saver Hex Wrench Sets - 3 pc. or 5 pc.



The unique offset design of these YELLOW JACKET® wrenches save your knuckles in tight places.

- Accurately sized and broached ends for correct fit.
- Heat-treated critical wear parts for long life.
- Finger control reversing.
- Chrome plated for durability.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	Hex Sizes
TOL01448	60630	Set - 5 Wrenches	1/4" to 7/8"
TOL01764	60631	Set - 3 Wrenches	1/4" to 9/16"
TOL02028	60634	Ratchet Wrench	3/8" x 7/16"
TOL02526	60636	Ratchet Wrench	5/8" x 11/16"

Large 3 1/8" (80mm) Red and Blue Dry Manifold Gauges °F with Class 1 (1% accuracy) calibration



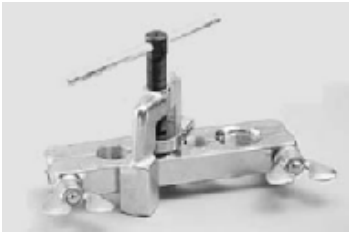
For reliable performance and durability, these 3 1/8" gauges are housed in a red or blue steel case with front recalibrator screw. High visibility colored temperature scales are easy to read through the full view polycarbonate crystal. Several features combine for improved accuracy: Flutterless™ technology with brass surge protector to minimize needle pulsation; brass gauge movement, and copper alloy bourdon tube. 1/8" MPT connection. Gauge is calibrated to 1% accuracy at the plant.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
LNS00847	49100	Replacement Crystal
GAG00945	49101	Red Pressure
GAG00946	49102	Blue Compound
GAG00935	49135	Red Pressure
GAG00936	49136	Blue Compound
GAG01027	49136	Blue Compound

# Tools and Test Equipment

## Refrigerant Handling

### Large Size 45° Flaring Tools 3/4" to 1 1/8"



Tool designed to flare on the larger size tubing - up to 1-1/8". Flaring bars are hardened and grip tubing securely. Yoke slips over flaring bar and locks in place. Long handle and precision threaded feed screw ensure easy flaring.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	Capacity
TOL01477	60292	Large Flaring Tool	3/4, 7/8, 1, 1-1/8" O.D.
TOL02452	60293	Flaring Yoke	for above
TOL01481	60466	Flaring Bar	for above

### Leak Detector Combustible Gas



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
SEN01227	69370	Combustible Gas Detector

### Liquid Filled Manifold Gauges (°F) Red and Blue – 3 1/8" – Heavy Duty Case



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	Size	Press Scale	Refrigerants
GAG00937	49177	Red Pressure	3 1/8"	0 - 800 PSI	R-410A
GAG00938	49178	Blue Pressure	3 1/8"	30"-0-120* PSI	R-410A

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Power options	Item Description
KIT08374	KIT001	Quick connect kit for Lovac unit & hoses	Quick connect kit (KIT001) may be purchased separately & installed to flare connections on Lovac & hoses.

### Manifold Carrying Cases

Blue heavy duty blow molded case to protect manifold and tools. Long lasting hinge. Handle for easy carrying.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
CAS00967	40262	Series 41 – 12-1/4" X 8" X 3-1/2"
CAS00968	41112	Brute – 15-1/2" X 12-1/2" X 5-1/2"

### Manifold Parts Kit for Series 41 & Brute Manifolds



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	Qty
PST00107	41103	3/8" Piston	8
SCR01991	41106	Feed Screw	6
NUT00995	41107	Retaining Nut	4
RNG01710	41109	Sight Glass "O"-Ring	2
NUT01014	41135	Retaining Nut	6
TOL01512	40279	Hanging Hook	3

**Refrigerant Handling**

**Manifold Parts Kit for Series 41 & Brute Manifolds**

UPC# 41100



Replacement parts for Series 41 and BRUTE Manifolds.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	Qty
KIT07498	41100	Kit; Complete Handle Assembly For Ritchie Series 41 Manifold, Includes Piston W/Seal, "O" Rings, Feed Screw, Retaining Nut And Handle W/Screw	
HDL00872	41101	Yellow Handle	4
HDL00873	41102	Blue Handle	3
HDL00874	41104	Red Handle	3
GLS00851	41108	Sight Glass	2
KIT07496	41133	1/4" Piston With "O" Rings And Seal	6
KIT07494	41141	Handle Screw	4
KIT07495	41142	Screws And Washers For Valve Handles (Set Of 2)	6
KIT07684	69103	Superheat Kit W/O Accessory Kit	

**Max-Flow Combition Oil Pump**



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
TOL01454	77940	Improved Max-Flow Combination Oil Pump
TOL01750	77941	Automatic Stopper For Oil Container Openings For New 77940 Pump

**Max-Flow Deluxe Oil Pump**



- Remove oil for recovery and conversion.
- Add oil to existing systems.
- Fits all size oil containers
- Improved for added reliability and a more powerful stroke, the Max-Flow deluxe oil pump is a high capacity unit for quick charging. Pumps 3.8 ounces (112.38 ml) per stroke. Other features:
- Foot stand base provides support and leverage while pumping against the high pressures of a running compressor.
- Operating unit in reverse with adapter hose accessory removes oil from equipment quickly and efficiently.
- Use with alkyl-benzene, ester based, polyol ester, mineral, and synthetic oils.
- Will pump against 250 psi pressure.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
HSE01223	77938	Optional 1/2" Flexible Suction Hose, 4" Long - Fitting One End Only

**Micro LED High Intensity Lamp**



Illuminates 120' away with 5 high intensity clear bulbs. Visible at one mile.

- 110,000+ hour LED's
- Full color spectrum and maximum depth perception
- Switch for constant ON or momentary ON
- Compact for easy storage

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
BAT00035	69792	2 Pk. CR 123A Lithium Batteries
TOL02037	69794	Micro LED Lamp Clear Bulbs For General Use

# Tools and Test Equipment

## Refrigerant Handling

### Mini-Saw for tight places



Specially designed for cutting small or large objects in tight areas.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	OAL	Blade Length
TOL01449	60071	Mini Saw	10"	6"
TOL01443	60076	Blades	10 pkg.	6"

### Pinch-Off Tools



60665 New Pinch-off will pinch off and reround 1/4, 5/16, 3/8 and 1/2" copper.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
TOL01476	60290	Pinch Off And Reround Tool
TOL01419	60661	Plier Type Pinch-Off Tool
TOL01565	60666	Visegrip RR Pinch-Off Tool

### Plus II Hose with FlexFlow™ valve

FlexFlow valve 6" from angle end

3 - Pak



Available with FlexFlow valve -

- Valve handle position shows when valve is opened, closed or anywhere between.
- Improved smaller ergonomic valve with zero restriction for maximum flow. Metal handle.
- Flexible length of hose between valve and fitting makes access easier to tight areas.
- UL recognized assemblies (File SA9737).

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	LENGTH
HSE01417	25984	Hose; Yellow Jacket Plus II Hose W/Flexflow Valve, 48in, 3-Pak	48"



Available with FlexFlow valve -

- Valve handle position shows when valve is opened, closed or anywhere between.
- Improved smaller ergonomic valve with zero restriction for maximum flow. Metal handle.
- Flexible length of hose between valve and fitting makes access easier to tight areas.
- UL recognized assemblies (File SA9737).

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	LENGTH
HSE01388	25660	Hose; Yellow Jacket Plus II Hose With Flexflow Valve, 60 Inch, Red	60"

### PLUS II HOSE with SealRight™ low loss anti-blow back fitting

45° SealRight fitting at one end

3 - Pak



- Low loss anti-blowback SealRight fitting immediately traps refrigerant in the hose when disconnected, helping meet non-venting regulations and prevent finger burns
- 45° end for ease in tight areas.
- Gaskets resist deterioration from existing CFC's, plus new HFC refrigerants and oils.
- Available with SealRight fittings on both ends.
- New ball valve hose recommended for R-410A.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	LENGTH
HSE01240	22984	Hose Plus II Hose With Sealright Fittings, 3-Pak, RYB	48"
HSE01433	22988	Hose Plus II Hose With Sealright Fittings, 3-Pak, RYB	96"

## Refrigerant Handling

### PLUS II HOSE with SealRight™ low loss anti-blow back fitting

45° SealRight fitting at one end

- Low loss anti-blowback SealRight fitting immediately traps refrigerant in the hose when disconnected, helping meet non-venting regulations and prevent finger burns.
- 45° end for ease in tight areas.
- Gaskets resist deterioration from existing CFC's, plus new HFC refrigerants and oils.
- Available with SealRight fittings on both ends.
- New ball valve hose recommended for R-410A. See page 102 for "C" Clip tool to disassemble end.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	LENGTH
HSE01235	22048	Hose; Plus II Hose With Sealright Fittings, Yellow	48"
HSE01289	22212	Hose; Plus II Hose With Sealright Fittings, Blue	12"
HSE01239	22248	Hose; Plus II Hose With Sealright Fittings, Blue	48"
HSE01290	22612	Hose; Plus II Hose With Sealright Fittings, Red	12"
HSE01272	22648	Hose; Plus II Hose With Sealright Fittings, Red	48"

## Pocket Digital Thermometer



Digital head rotates 180° for easy reading.

- On/off button.
- Auto shut-off after 10 minutes to save battery.
- Reading updates every second.
- 5" (125mm) stem.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	Case/Qty
THR00044	69250	60107 Display Pkg.	12

## Pocket Thermometers



1" and 1 3/8" dial thermometers are adjustable with a 5" stainless steel stem. Colored sheath with pocket clip.

- Individually calibrated.
- Shock resistant.

Packaging: 12 units with display

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	Case/Qty
THR00042	69107	Thermometer; Pocket Digital, -58F To 302F	
THR00053	69251	1" Dial 0-220°F	12
THR00049	69255	1 3/8" Dial -40-160°F (-40 To 70°C)	12
THR00045	69256	1 3/8" Dial 0-220°F (-10 To 110°C)	12

## Protective Gauge Boots



Rubber boots slip easily around gauges to cushion and protect them from impact. Fits standard 2-1/2" gauges. Color-coded red or blue to match gauge.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
COV03172	49090	Set of Gauge Boots
COV03161	49091	Red Protective Gauge Boot
COV03162	49092	Blue Protective Gauge Boot

## Quick Coupler Assembly for vacuum & charging

1/4" Str. X 45° 1/4" I.D.



Oversized to increase flow and speed evacuation. Pull 25 microns and better on 36" length. Brass quick coupler.

Other features:

- Standard 45° angle at one end on 1/4" and 3/8"; 90° available.
- Straight fittings only on 1/2", 5/8" and 3/4".

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	OAL
HSE01275	81660	Hose; Stainless Steel Charging/Vacuum Hose W/Quick Coupler, 1/4" Str X 1/4" 45 Deg ID.	60"

# Tools and Test Equipment

## Refrigerant Handling

### Quick Coupler Assembly for vacuum & charging

3/8" Str. X 45° 3/8" I.D.

Oversized to increase flow and speed evacuation. Pull 25 microns and better on 36" length. Brass quick coupler.

Other features

- Standard 45° angle at one end on 1/4" and 3/8"; 90° available.
- Straight fittings only on 1/2", 5/8" and 3/4".

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	OAL
HSE01278	81760	Hose; Stainless Steel Charging/Vacuum Hose W/Quick Coupler, 3/8" Str X 3/8" 45 Deg ID.	60"

### Quick Coupler Gaskets and "O"-RINGS



The only gaskets designed for optimum performance with YELLOW JACKET® Charging Hoses. Works with all refrigerants. Manufactured to strict tolerances to resist blow out. For 1/4" - 3/4" Regular & Heavy Duty hose

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	Qty
GKT03871	18001	Gasket, Cylinder Valve Gaskets, Pack Of 10	10
GKT03847	19005	Gasket; CH20/100 Gaskets For 1/4" Hose	100
KIT07452	19010	Kit; Gasket/Valve Repl. Pak	6,3
KIT07453	19011	Kit; CH-11 Bulk Gasket	10
RNG01858	19012	O-Ring; Quick Coupler O-Ring For Ritchie 3/4 Inch Hose, Package Of 10	10
GKT03872	19015	Gasket; CH80 Quick Coupler Gaskets For 1/2" - 5/8" Hoses	10
GKT03860	19021	Gasket; 1/8" Quick Coupler Gasket (10 Pak)	10
RNG01690	19025	1/4" "O"-Ring	10

### Quick Coupler-Style Braze-In Fittings



Braze-in brass fitting with replaceable soft seat. Quick coupler-style fittings are the same as supplied on metal hose.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
FTG01025	19082	1/4" Str. Fe. Fl. W/CH20 Gasket
FTG00883	19088	1/2" Str. Only Fe. W/Quad Ring

### Recovery Burnout Filter for dirty systems



High capacity inline filter drier removes moisture and oil breakdown products, as well as acid from burnt out systems. Attaches directly to refrigerant recovery system with a 1/4" female and a 1/4" male connection. UL and CSA listed.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
DHY01038	95014	Recovery Filter

### Recovery Machine Parts

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
KIT09643	95123	Compressor Service Kit For R 50/R 50A

### Refrigerant Recovery and Recycling Equipment by Robiir



The Robinair Advantage-fully automatic, oil-less recovery unit requiring no operator assistance to switch from liquid to vapor.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	VOLTAGE
RCT00833	25200B	Recovery rate: Vapor: 0.4 to 0.6 lbs./min. Liquid: 5 to 7 lbs./min. Operating Range: 0° to 105°F; Dimensions: 20"H x 12 1/2"W x 10 1/2"D, weight: 32 lbs.	115V 60 Hz
RCT00831	25150A	Recovery rate: Vapor: up to 24 lbs./min. Liquid: up to 9 lbs./min. Operating Range: 0° to 105°F; Dimensions: 20"H x 12 1/2"W x 10 1/2"D, weight: 27 lbs. 60" hose included.	115V 60 Hz



## Refrigerant Handling

### Refrigerant Recovery Pliers



The fastest and easiest way to evacuate refrigerant before disposal of a unit. Snaps onto refrigerant line for full and immediate flow. Punctures super large hole for maximum full flow to recovery unit. One adjustable tool fits all sizes from 3/16" to 7/8" O. D. hard tubing. Replaceable hardened steel needle.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
TOL01564	60667	Refrigerant Recovery Pliers
KIT07729	60668	Replacement Needle And Gasket

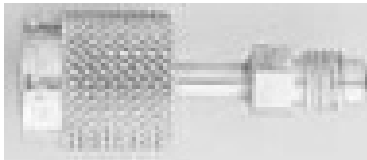
### Safety Goggles



Helps protect your eyes against metal particles, sparks, refrigerant gases, etc. when working on HVAC&R systems. Safety goggles are recommended any time you work on a system.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
GLS00850	11003	Ventilated Safety Goggles

### SealRight™ Quick Couplers



Innovative SealRight fittings automatically and immediately trap refrigerant in the hose when disconnected, helping meet nonventing regulations and preventing finger burns. One-piece attaches quickly, saving up to 50% in time compared to 2-piece quick couplers. Works with or without Schrader core. Gaskets resist deterioration from CFC, HCFC, HFC refrigerants, and new oils. Field serviceable.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
CPL01002	19100	Set Of 19109 And 19209
CPL00945	19117	1/4" Sealright Str. X 3/8" Male Fl.
CPL00944	19128	1/4" Sealright Str. X 1/8" Fe. FPT
CPL00955	19129	1/4" Sealright Str. X 1/4" Fe. FPT
CPL01029	19163	ACME 1/2" Sealright X 1/4" Male Fl.
CPL00948	19217	1/4" Sealright 90° X 3/8" Male Fl.

### SealRight assembly components



Innovative SealRight fittings automatically and immediately trap refrigerant in the hose when disconnected, helping meet nonventing regulations and preventing finger burns. One-piece attaches quickly, saving up to 50% in time compared to 2-piece quick couplers. Works with or without Schrader core. Gaskets resist deterioration from CFC, HCFC, HFC refrigerants, and new oils. Field serviceable.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
KIT07476	19038	Plug Assembly With All Seals (2)
KIT08092	19041	Overhaul Kit With All Above Parts

### Series 41 Deluxe Manifolds – Class 1 (1% accuracy) brass gauges

#### 2-valve manifold – deluxe brass gauges

R-12, R-22, R-502,



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
MFD01020	41232	With 60" Hose
MFD01025	44235	With 60" Hose

# Tools and Test Equipment

## Refrigerant Handling

### Series 41 Manifolds – red and blue °F gauges manifolds with different length hoses

R-12, R-502, R-22

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
MFD00956	41220	48" RYB Hoses
MFD00926	42215	60" RYB Hoses
MFD00949	44213	36" RYB Hoses
MFD00948	44215	60" RYB Hoses
MFD00961	44219	72" RYB Hoses
MFD00962	44220	48" RYB Hoses
MFD00975	45213	36" RYB Hoses
MFD00940	45215	60" RYB Hoses
MFD00976	45219	72" RYB Hoses

R-134a, 34a, R-404A, R-507

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
MFD01065	42315	60" RYB Hoses
MFD01045	44315	60" RYB Hoses
MFD00989	44319	72" RYB Hoses
TOL01464	60225	72" RYB Hoses

R-401A

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
MFD00973	41703	60" RYB Hoses
MFD00919	41709	60" RYB Hoses

### Series 41 Manifolds – without hoses

R-12, R-502, R-22



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	Packaging
MFD01019	43319	Brass Gauges	Boxed

R-410A

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	Packaging
MFD00925	42030	Red & Blue Gauges	Clamshell

### Series 41 Replacements Parts

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
RNG01692	41131	"O" Rings 10 Pack
SCR01887	41134	Feed Screw
KIT07497	41143	Complete Handle Assembly – Piston With Seal, "O" Rings, Feed Screw, Retaining Nut And Handle With Screw And Washer

### Service Wrench and Adapter



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
TOL01517	60610	60613 Service Wrench And 60609 Adapter

Refrigerant Handling

Single Gauge Manifold



Single gauge manifold. Check pressure on low side of system. Nylon seals. Double O-ring pistons.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
MFD00987	40318	Low Side Manifold R-12, R-22, R-502

Single Test Gauges

Gauge w/ QC & 12" hose - angle CPLG



Quick pressure checks - use low or hi-side gauge with quick coupler to attach directly to system or tanks.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
GAG00934	40342	Blue Compound °F

Gauge with 19110 quick coupler for recovery tank pressure checks

Quick pressure checks - use low or hi-side gauge with quick coupler to attach directly to system or tanks.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
GAG00915	40331	Red Pressure °F
GAG00916	40332	Blue Compound °F

Single Valves



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
MFD00986	40317	Hi-Side Manifold With Gauge

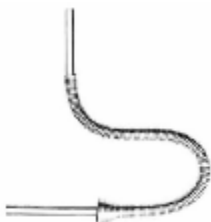
Sp-It™ Coupler



- Snaps on over 1/4" flare threads with Schrader cores.
- Forms tight connection immediately.
- Instantly activates the Schrader in access fitting.
- Instantly shuts off end of hose when sleeve is pulled back and coupler pops off access fitting.
- Virtually no gas release to atmosphere. Eliminates frostbite.
- One piece construction.
- For up to 600 psi.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
CPL00926	19090	Snap-It™ Coupler

Spring Tube Bender for 1/4" to 7/8"



Specially designed Yellow Jacket spring benders slip over soft copper and aluminum tubing during bending to help prevent tube collapse.

- Silver-plated finish.
- Conforms to Fed. Spec. GGG-B- 191-a Type IV.

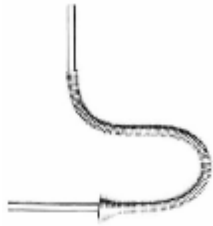
SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
TOL01530	60351	Set-6 Sizes-1/4", 5/16", 3/8", 7/16", 1/2" And 5/8" O.D.
TOL01549	60353	Set-4 Sizes-1/2", 5/8", 3/4" And 7/8" O.D.
TOL01557	60360	3/4" O.D. Bending Spring

# Tools and Test Equipment

## Refrigerant Handling

### Spring Tube Bender for 1/4" to 7/8"

#### Single Bending Springs



Specially designed Yellow Jacket spring benders slip over soft copper and aluminum tubing during bending to help prevent tube collapse.

- Silver-plated finish.
- Conforms to Fed. Spec. GGG-B- 191-a Type IV.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
TOL01558	60356	7/8" O.D. Bending Spring
TOL02127	60358	3/8" O.D. Bending Spring
TOL02129	60361	1/2" O.D. Bending Spring

### Strap Wrench



Easy-to-use strap attaches easily for quick gripping of chrome or nickel finished pipe without gouging the finish. Sturdy one-piece construction.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	Capacity	Weight
TOL01485	60651	Tool; Strap Wrench, 17" Capacity	17 "	0.7 lbs.

### SuperEvac™ Evacuation Manifolds



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
RNG01748	19027	1/2" "O"-Ring Gasket
MFD00945	93850	Single Valve With 1/4" Schrader
MFD00954	93860	Two Valves With Low Side Gauge

### SuperEvac™ LCD Vacuum Gauge

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
VAL07440	69067	Optional Ball Valve To Add To Sensor 1/8" FPT X 1/4" Female Flare

### SuperEvac™ LCD Vacuum Gauge - Full Range



Thermocouple sensor technology combines with advanced electronics for **precise readings and repeatability** not found with thermistor sensors or analog meters.

- No adjustments or warm-up. Stays calibrated after on/off switching and long evacuations.
- Automatic ambient temperature compensation.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
ADP01022	69071	Brass Connector
SEN01056	69073	Replacement Sensor For 69070, 69075
GAG00941	69075	Superevac LCD Full Range Vacuum Gauge Complete In Case

Refrigerant Handling

Test Lead Sets



Set of two leads three feet in length. Clips with red and black insulators each end. 120/240 Volt-AC.  
69532 & 69531 use 16-1 wire.  
69530 & 69529 use 14-1 wire.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	Product Information		
			Max Amps	Clip Size	Replaces
LED00357	69528	Lead; 6' Black And Red Test Lead Set, 10 Amp With Medium Clips On One End, Female Plug On Other	10 Amp	Medium	Annie C-6-2F & HI TL5
LED00372	69529	Lead; Yellow Jacket Red And Black Test Leads, 20 Amp, 3 Ft Long	20 Amp	Large	Annie T-14-3 & HI TL4
LED00355	69531	Lead; 3' Black And Red Test Lead Set, 10 Amp With Medium Clip	10 Amp	Medium	Annie T-16-2 & HI TL2
LED00354	69532	Lead; 3' Black And Red Test Lead Set, 5 Amp With Small Clip	5 Amp	Small	Annie* T-16-1 & HI TL1

Titan™™ Test & Charging Manifold - °F

Titan™ 2-Valve Manifolds with Sight Glass

R-12,R-22,R-502



- Large, easy-to-read 3-1/8" (80 mm) steel case red and blue, 1% accuracy (Class 1) gauges; front access for easy field recalibration; optional protective gauge boots available.
- Proven, double "O"-ring piston for reliability and long service life.
- **Exclusive** 100 mesh filter in-line on all flare fittings helps keep out particulate material and extends the life of the seats.
- Contoured easy-grip handles for positive control; color coded for ready identification.
- Sight glass to easily view refrigerant movement and condition during charging and recovery.
- Heavy duty hook won't pull out.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Gauge	Hoses	Discontinued BRUTE UPC #
MFD01080	49801	Red/Blue	60" Plus II™ SealRight™ - RYB	45754
MFD01087	49802	Red/Blue	No hose	45802
MFD01079	49805	Red/Blue	60" Plus II™ - RYB	45805

R-134a,R-404A,R-407C

- Large, easy-to-read 3-1/8" (80 mm) steel case red and blue, 1% accuracy (Class 1) gauges; front access for easy field recalibration; optional protective gauge boots available.
- Proven, double "O"-ring piston for reliability and long service life.
- **Exclusive** 100 mesh filter in-line on all flare fittings helps keep out particulate material and extends the life of the seats.
- Contoured easy-grip handles for positive control; color coded for ready identification.
- Sight glass to easily view refrigerant movement and condition during charging and recovery.
- Heavy duty hook won't pull out.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Gauge	Hoses	Discontinued BRUTE UPC #
MFD01081	49832	Red/Blue	No hose	45832
MFD01082	49835	Red/Blue	60" Plus II™ - RYB	45835
MFD01083	49831	Red/Blue	60" Plus II™ - SealRight™ - RYB	45774

R-22,R-134a,R-404A

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Gauge	Hoses	Discontinued BRUTE UPC #
MFD01126	49883	Red/Blue	No Hose	na
MFD01127	49887	Red/Blue	60" Plus II™ - RYB	na
MFD01128	49889	Red/Blue	60" Plus II™ - SealRight™ - RYB	na

# Tools and Test Equipment

## Refrigerant Handling

### Titan™ Test & Charging Manifold - °F

#### Titan™ 2-Valve Manifolds with Sight Glass

R-22,R-404A,R-410A

- Large, easy-to-read 3-1/8" (80 mm) steel case red and blue, 1% accuracy (Class 1) gauges; front access for easy field recalibration; optional protective gauge boots available.
- Proven, double "O"-ring piston for reliability and long service life.
- **Exclusive** 100 mesh filter in-line on all flare fittings helps keep out particulate material and extends the life of the seats.
- Contoured easy-grip handles for positive control; color coded for ready identification.
- Sight glass to easily view refrigerant movement and condition during charging and recovery.
- Heavy duty hook won't pull out.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Gauge	Hoses	Discontinued BRUTE UPC #
MFD01104	49868	Red/Blue	60" Plus II™ Compact Ball Valve - RYB	n/a
MFD01124	49863	Red/Blue	No Hose	n/a
MFD01125	49867	Red/Blue	60" Plus II™ - RYB	n/a

R-410A

- Large, easy-to-read 3-1/8" (80 mm) steel case red and blue, 1% accuracy (Class 1) gauges; front access for easy field recalibration; optional protective gauge boots available.
- Proven, double "O"-ring piston for reliability and long service life.
- **Exclusive** 100 mesh filter in-line on all flare fittings helps keep out particulate material and extends the life of the seats.
- Contoured easy-grip handles for positive control; color coded for ready identification.
- Sight glass to easily view refrigerant movement and condition during charging and recovery.
- Heavy duty hook won't pull out.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Gauge	Hoses
MFD01084	49862	Red/Blue	No hose
MFD01085	49865	Red/Blue	60" Plus II - RYB 45865
MFD01086	49860	Red/Blue	60" Plus II - Compact Ball Valve - RYB

#### Titan™ 4-Valve Manifolds with Sight Glass

R-12,R-22,R-502



- Large, easy-to-read 3-1/8" (80 mm) steel case red and blue, 1% accuracy (Class 1) gauges; front access for easy field recalibration; optional protective gauge boots available.
- Proven, double "O"-ring piston for reliability and long service life.
- **Exclusive** 100 mesh filter in-line on all flare fittings helps keep out particulate material and extends the life of the seats.
- Contoured easy-grip handles for positive control; color coded for ready identification.
- Sight glass to easily view refrigerant movement and condition during charging and recovery.
- Heavy duty hook won't pull out.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Gauge	Hoses
MFD01092	49902	Red/Blue	No hose
MFD01093	49905	Red/Blue	60" Plus II™ - RYB & 3/8" x 45°
MFD01094	49922	Liquid	No hose
MFD01095	49925	Liquid	60" Plus II™ - RYB & 3/8" x 45°

**Refrigerant Handling**

**Titan™™ Test & Charging Manifold - °F**

**Titan™ 4-Valve Manifolds with Sight Glass**

R-134a,R-404A,R-407C

- Large, easy-to-read 3-1/8" (80 mm) steel case red and blue, 1% accuracy (Class 1) gauges; front access for easy field recalibration; optional protective gauge boots available.
- Proven, double "O"-ring piston for reliability and long service life.
- **Exclusive** 100 mesh filter in-line on all flare fittings helps keep out particulate material and extends the life of the seats.
- Contoured easy-grip handles for positive control; color coded for ready identification.
- Sight glass to easily view refrigerant movement and condition during charging and recovery.
- Heavy duty hook won't pull out.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Gauge	Hoses
MFD01096	49932	Red/Blue	No Hose
MFD01097	49935	Red/Blue	60" Plus II™ - RYB & 3/8" x 45°
MFD01098	49955	Liquid	60" Plus II™ - RYB & 3/8" x 45°
MFD01111	49952	Liquid	No Hose

R-22,R-134a,R-404A

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Gauge	Hoses
MFD01141	49983	Red/Blue	No Hose
MFD01142	49987	Red/Blue	60" Plus II™ - RYB & 3/8" x 45°
MFD01143	49993	Liquid	No hose
MFD01144	49997	Liquid	60" Plus II™ - RYB & 3/8" x 45°

R-22,R-404A,R-410A

- Large, easy-to-read 3-1/8" (80 mm) steel case red and blue, 1% accuracy (Class 1) gauges; front access for easy field recalibration; optional protective gauge boots available.
- Proven, double "O"-ring piston for reliability and long service life.
- **Exclusive** 100 mesh filter in-line on all flare fittings helps keep out particulate material and extends the life of the seats.
- Contoured easy-grip handles for positive control; color coded for ready identification.
- Sight glass to easily view refrigerant movement and condition during charging and recovery.
- Heavy duty hook won't pull out.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Gauge	Hoses
MFD01105	49963	Red/Blue	No hose
MFD01129	49967	Red/Blue	60" Plus II™ - RYB & 3/8" x 45°
MFD01130	49968	Red/Blue	60" Plus II™ - Compact Ball Valve - RYB & 3/8" x 45°
MFD01139	49973	Liquid	No hose
MFD01140	49977	Liquid	60" Plus II™ - RYB & 3/8" x 45°

# Tools and Test Equipment

## Refrigerant Handling

### Titan™ Test & Charging Manifold - °F

#### Titan™ 4-Valve Manifolds with Sight Glass

R-410A

- Large, easy-to-read 3-1/8" (80 mm) steel case red and blue, 1% accuracy (Class 1) gauges; front access for easy field recalibration; optional protective gauge boots available.
- Proven, double "O"-ring piston for reliability and long service life.
- **Exclusive** 100 mesh filter in-line on all flare fittings helps keep out particulate material and extends the life of the seats.
- Contoured easy-grip handles for positive control; color coded for ready identification.
- Sight glass to easily view refrigerant movement and condition during charging and recovery.
- Heavy duty hook won't pull out.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Gauge	Hoses	Replaces Bantam Part #
MFD01090	49960	Red/Blue	60" Plus II™ Compact Ball Valve - RYB & 3/8" x 45°	45960
MFD01088	49962	Red/Blue	no hose	45962
MFD01089	49982	Liquid	No hose	45982
MFD01091	49965	Red/Blue	60" Plus II™ - RYB & 3/8" x 45°	45965

### Tube Reamer/Burr Remover



Steel blades remove inner and outer burrs.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
TOL01433	60161	Tube Reamer - Up To 1-3/8"

### Universal 45° Flare/Burnish Tool



Universal designed bar will hold all inch and metric size tubing up to 5/8" (16mm). Flare bar is more compact and easier to use in tight quarters. Multi-faceted cone rolls out precise 45° flare and polishes it at the same time. Flare is formed above flare bar.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	Capacity
TOL01486	61155	Universal Flaring Tool	3/16" to 5/8" O.D.

### Universal A/C Disposable Injectors



Universal disposable 1 oz. applicator for fast economical dispensing. Universal dye for all common refrigerants and oils. Two 1/2 oz. applications for regular split system or four 1/4 oz. applications for small appliances or auto A/C.

- Less costly and faster than many other methods.
- One dye minimizes inventory.
- No back-up refrigerant to move dye into system.
- Patented

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
CHM00471	69700	1 OZ. (30 MI) Injector – 6/CS. (12 ReSidential Applications/CS.)
CHM00486	69721	1 OZ. (30 MI) Injector – 2 Pkg. (4 ReSidential Applications/Pkg.)

### Universal A/C Dye Solutions



Universal dye for A/C systems with mineral, alkyl, or polyol ester lubricants.

- Field proven and sold worldwide.
- Passed thermal stability tests.
- One dye for AC/R systems.
- Raw material QC assures dye uniformity.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
CHM00461	69712	8 OZ. (240 MI) Universal A/C – 1/CS.



Refrigerant Handling

Vacuum Pump Adapter



Convert a 3/8" or 1/2" vacuum pump intake into R-12 and R-134a compatible fittings.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
ADP01121	36018	1/2" Pump Adapter With 1/4" Flare And 1/2" ACME Male Fittings
ADP01122	36019	3/8" Pump Adapter With 1/4" Flare And 1/2" ACME Male Fittings

Vacuum Pump Intake Adapter



Reducing adapters for intakes on SuperEvac™ and other pumps.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
ADP00915	19133	3/8" Fe. Fl. X 1/2" M. Fl. Adapter

Vacuum Pump Intake Reducer Adapter



Rugged reducing adapters for vacuum pump intake.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
ADP00938	19130	3/8" Fe. Fl. X 1/4" Male Fl.
ADP00921	19131	1/2" Fe. Fl. X 3/8" Male Fl.
ADP00939	19132	1/2" Fe. Fl. X 1/4" Male Fl.

Oil Exhaust Filter



Screws onto the pump exhaust to eliminate oil mist. Use on 2, 4, 6, 8 CFM pumps as well as new 1.5 CFM pump.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
FLR04604	93386	Exhaust Filter
ELM003537	93387	Replacement Element

Vacuum/Charge Valve and Core Tools



The original vacuum/charge valves to speed service work and remove and replace Schrader valves. Also, for fast recovery and vacuum.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
VAL07317	18990	Deluxe Vacuum / Charge Valve
RNG01747	18995	"O" Ring Set
TOL01429	19000	Original Vacuum / Charge Valve Without Extra 1/4" Access Port

Wrap-around Heater for Refrigerant Cylinder



Fits 30/50-125 lb cylinders. Thermostat controlled with maximum 135°F and minimum 120°F (surface temperature of tank). Cycles on/off to maintain surface temperature. 200 watt, 115/220V.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
HTR03378	68848	Wrap-Around Cylinder Heater 115V

# Tools and Test Equipment

## Refrigerant Handling

### Digital LCD Vacuum Gauge



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
CAS01331	69081	Soft-sided Case
GAG00951	69080	Digital Lcd Vacuum Gauge With Battery, Hook, Case

### Pressure Control Hoses

#### 1/4" Hex Fittings Assemblies

Str. x 90°



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	LENGTH
HSE01267	78124	Hose; 1/4" Pressure Control Hose W/Hex Fittings, 24", Str. X 90	24"
HSE01268	78130	Hose; 1/4" Pressure Control Hose W/Hex Fittings, 30", Str. X 90	30"
HSE01301	78148	Hose; Pressure Control Hose, Str X 90 Fittings, 48in	48"

### Parts Kits



19003 COMPLETE KIT includes following gaskets, valve openers and SealRight parts in a 12 compartment case #19003.

- Five 1/8" gaskets
- Five 1/8" valve openers
- 100 1/4" gaskets
- Ten 1/4" and 3/16" adjustable CH14 valve openers
- Ten 1/4" valve openers
- Ten 3/8" gaskets
- Ten 1/2"-5/8" gaskets
- Ten cylinder valve gaskets
- Ten SealRight "O"-rings
- Four SealRight plug assemblies
- Four SealRight nut and clip

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
KIT07451	19003	Kit; Hose, Maintenance

### Reversing Foot Switch

#### SWT02435



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
SWT02435	834R	Two-directional foot switch for RAM-4-60

#### SWT02455



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
SWT02455	834R-SF	Two-directional foot switch for use with RAM-5 when cleaning internally-enhanced tubes

**Test Instruments**

**HVAC & R Service Tools by Ritchie**

**Charging Hoses**



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
HSE01160	11036	1/4", yellow, 36", HA36Y
HSE01161	11236	1/4", blue, 36", HA36B
HSE01162	11636	1/4", red, 36", HA36R
HSE01163	11060	1/4", yellow, 60", HA60Y
HSE01164	11260	1/4", blue, 60", HA60B
HSE01165	11660	1/4", red, 60", HA60R
HSE01166	11072	1/4", yellow, 72", HA72Y
HSE01167	11272	1/4", blue, 72", HA72B
HSE01168	11672	1/4", red, 72", HA72R
HSE01169	11983	1/4", 3-pack, 36", HA36RYB
HSE01170	11985	1/4", 3-pack, 60", HA60RYB
HSE01171	11986	1/4", 3-pack, 72", HA72RYB
HSE01172	21036	1/4", yellow, 36", HAV36Y
HSE01173	21236	1/4", blue, 36", HAV36B
HSE01174	21636	1/4", red, 36", HAV36R
HSE01175	21060	1/4", yellow, 60", HAV60Y
HSE01176	21260	1/4", blue, 60", HAV60B
HSE01177	21660	1/4", red, 60", HAV60R
HSE01178	21072	1/4", yellow, 72", HAV72Y
HSE01179	21272	1/4", blue, 72", HAV72B
HSE01180	21672	1/4", red, 72", HAV72R
HSE01181	21983	1/4", 3-pack, 36", HAV36RYB
HSE01182	21985	1/4", 3-pack, 60", HAV60RYB
HSE01183	21986	1/4", 3-pack, 72", HAV72RYB
HSE01184	22036	1/4", yellow, 36", HAVS36Y
HSE01185	22236	1/4", blue, 36", HAVS36B
HSE01186	22636	1/4", red, 36", HAVS36R
HSE01187	22060	1/4", yellow, 60", HAVS60Y
HSE01188	22260	1/4", blue, 60", HAVS60B
HSE01189	22660	1/4", red, 60", HAVS60R
HSE01190	22072	1/4", yellow, 72", HAVS72Y
HSE01191	22272	1/4", blue, 72", HAVS72B
HSE01192	22672	1/4", red, 72", HAVS72R
HSE01193	22983	1/4", 3-pack, 36", HAVS36RYB
HSE01194	22985	1/4", 3-pack, 60", HAVS60RYB
HSE01195	22986	1/4", 3-pack, 72", HAVS72RYB
HSE01196	29036	1/4", yellow, 36", HBVV36Y
HSE01197	29236	1/4", blue, 36", HBVV36B
HSE01198	29636	1/4", red, 36", HBVV36R
HSE01199	29060	1/4", yellow, 60", HBVV60Y
HSE01200	29260	1/4", blue, 60", HBVV60B
HSE01201	29660	1/4", red, 60", HBVV60R
HSE01202	29072	1/4", yellow, 72", HBVV72Y
HSE01203	29272	1/4", blue, 72", HBVV72B
HSE01204	29672	1/4", red, 72", HBVV72R
HSE01205	29983	1/4", 3-pack, 36", HBVV36RYB
HSE01206	29985	1/4", 3-pack, 60", HBVV60RYB
HSE01207	29986	1/4", 3-pack, 72", HBVV72RYB

**Tools and Test Equipment**

**Heavy Duty Charging/Vacuum Hoses**



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
HSE01213	15872	Hose, Heavy Duty Plus II 1/2" Charging/Hi-Vacuum, 72", C-72
HSE01214	15910	Hose, Heavy Duty Plus II 1/2" Charging/Hi-Vacuum, 120", C-120
HSE01249	25986	1/4" Plus II Charging Hose w/ FlexFlow Fitting, 60", 3-Pak
HSE01251	25985	1/4" Plus II Charging Hose w/FlexFlow Valve, 3-Pak, 60"
HSE01280	15860	Heavy Duty Plus II charging/hi-vacuum hose, 1/2" fl. x 1/2" fl.
HSE01329	15836	Hose, 1/2" heavy duty plus II charging/hi-vacuum hose, 36"

# Tools and Test Equipment

## Test Instruments

### HVAC & R Service Tools by Ritchie

#### Manifolds with Gauges

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
MFD00912	41212	Manifold, w/gauges, R-12,22,502, No Hoses
MFD00913	41213	Manifold, w/gauges, R-12,22,502, w/36" HA Hoses
MFD00914	41215	Manifold, w/gauges, R-12,22,502, w/60" HA Hoses
MFD00915	41312	Manifold, w/gauges, R-134a,404A,507, No Hoses
MFD00916	41313	Manifold, w/gauges, R-134a,404A,507, w/36" HA Hoses
MFD00917	41315	Manifold, w/gauges, R-134a,404A,507, w/60" HA Hoses
MFD00918	41712	Manifold, w/gauges, R410A, No Hoses
MFD00920	42715	R410A Manifold, HBVV-60 RYB Hoses
MFD00924	42000	Manifold, 2-Valve w/red and blue gauges, hook and anchor in clamshell packaging
MFD00930	41702	R-410A Manifold w/three Plus II hoses w/FlexFlow Fitting
MFD00931	41710	R-410A Manifold w/three Plus II hoses w/SealRight Fitting
MFD00941	41219	Manifold; 2-valve, with standard 72" RYB hoses, R12,22,502
MFD00942	43315	Manifold; 2-valve, with 60" Plus II RYB hoses, R134a,404A,507
MFD00959	43215	Manifold, yellow jacket series 41-45 manifold W/60" plus II RYB hoses with standard fitting, R12, 22, 502
MFD00965	42010	Manifold, series 41-45 manifold in clamshell pack, R134A, 404A, 507
MFD00972	43219	Manifold, series 41-45 manifold, R12,22,502, W/72" RYB plus II hoses with standard fitting

#### Repair Kits

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
KIT07454	19020	Kit, CH-20 Bulk Gasket, 1/4" hose
KIT07456	77931	Kit, Seal Kit for 77930 oil pump
KIT07517	19040	SealRight Quick Coupler Rebuild Kit
RNG01691	19037	O-ring; for 1/4" hoses and quick couplers 10 pack

#### Replacement Manifold Gauges



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
GAG00878	49001	Gauge, Red Press., 0-500 PSI, R-12,22,502
GAG00879	49002	Gauge, Blue Compound, 30"-0-120 PSI, R-12,22,502
GAG00880	49051	Gauge, Red Press., 0-500 PSI, R-134a,404A,507
GAG00881	49052	Gauge, Blue Compound, 30"-0-120 PSI, R-34a,404A,507
GAG00882	49035	Gauge, Red Press., 0-800 PSI, R-410A
GAG00883	49036	Gauge, Blue Compound, 30"-0-300 PSI, R-410A
GAG00886	49081	Gauge, Red Liquid-Filled, 0-500 PSI, R-12,22,502
GAG00887	49082	Gauge, Blue Compound, 30"-0-120 PSI, R12,22,502
GAG00905	49071	Gauge, red pressure gauge, liquid filled, 0-500 PSI, R134A, 507, 404A
GAG00906	49072	Gauge, blue pressure gauge, liquid filled, 30"-0-120 PSI, R134A, 507, 404A
GKT03859	18973	Gasket for 18975 (5-pak)
HDL00879	61173	Handle, replacement handle for 61171 fin straightener

#### SealRight Quick Couplers



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
CPL00924	19109	Coupler, 1/4" SealRight Str. x 1/4" male fl.
CPL00925	19209	Coupler, 1/4" SealRight 90° x 1/4" male fl.
CPL00928	19208	SealRight Quick Coupler, 1/4" SealRight 45° x 1/4" male flare
CPL00932	19102	Coupling; 1/4" female quick x 3/8" male flare
CPL00939	19110	Coupler, quick coupler, 1/4" FE QC x 1/8" male NPT
CPL00940	19111	Coupler, straight quick coupler, 1/4" FE QC STR x 1/8" male NPT
CPL00946	19120	Coupling, YELLOW JACKET® quick coupler, 3/16" FE QC x 1/4" M FL (GM)
CPL00947	19125	Coupling, YELLOW JACKET® quick coupler, 1/8" FE QC x 1/4" M FL (FORD)

Test Instruments

HVAC & R Service Tools by Ritchie

Super E-VAC Vacuum Pumps



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
PMP01517	93440	Pump, Vacuum, 115V, 4 CFM, 2-stage
PMP01518	93460	Pump, Vacuum, 115V, 6 CFM, 2-stage
PMP01519	93480	Pump, Vacuum, 115V, 8 CFM, 2-stage

Tools



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
TOL01400	60121	Tool, Mini Tube Cutter, 1/8" to 7/8"
TOL01401	60142	Tool, Big Mini Tube Cutter, 1/4" to 1-1/8"
TOL01402	60101	Tool, Prem. Tube Cutter, 1/8" to 1-1/8"
TOL01403	60160	Tool, Small Mini Tube Cutter, 1/8" to 5/8"
TOL01418	60015	Tool, Display Pak of 60102 Large Tube Cutter, 6 per pack
TOL01432	60103	Tube Constrictor/Cutter, 1/4" - 1-1/8" O.D.
TOL01444	60102	Large Tube Cutter, 1/4" thru 1-5/8" O.D.
TOL01408	60613	Tool, Strt. Ref. Ratchet, 1/4", 3/16", 3/8", 5/16"
TOL01409	60616	Tool, Off-Set Ref. Ratchet, 1/4", 3/16", 3/8", 5/16"
TOL01435	60612	Heavy Duty Refrigeration Ratchet Wrench, 7" Long
TOL01484	60615	Large Ref. Ratchet, 3/8" Square x 1/2" Square
TOL01440	60460	Multi Swage Punch, 6 sizes-3/16thru 5/8"
TOL01445	60476	5 Piece Swaging Kit in pouch, 1/4, 5/16, 3/8, 1/2 and 5/8"
TOL01523	60618	Tool, heavy duty service wrench, square opening, 3/16, 1/4, 3/8 and 5/16"
TOL01480	60455	Large Swage/Flaring Tool, 3/4" to 1 1/8" OD
TOL01516	60475	Tool, 4-piece swaging set, 1/4, 3/8,
TOL01524	60617	Tool, Sporlan valve wrench
TOL01410	60609	Tool, Hex Key Adapter
TOL01442	78075	Plastic Tube Manometer, -2" -0- 15" Scale
TOL01420	61150	Tool, Adjustable Fin Straightener and Cleaner
TOL01421	61170	Tool, Adjustable Fin Straightener and Cleaner w/Large Handle
TOL01424	77930	Tool, Max-Flow Deluxe Oil Pump
TOL01446	61158	Nylon Fin Combs, Assortment of 6, 8 to 20 fpi
TOL01453	90360	Heavy Duty Grease Gun for 14.5 oz cartridge
TOL01525	61171	Tool, 6-in-1 fin straightener
TOL01526	61172	Tool, replacement head for 61171 fin straightener
TOL01548	68802	Tool, refrigerant charging scale, Ritchie # 68802
TOL01541	78070	Tool, plastic tube manometer -2" - 0 - 7 1/2" scale

Refrigerant Handling

Capillary Cutter



Cleanly cut capillary tubing without flattening or constricting tubing.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
TOL01807	60195	Capillary Cutter

# Tools and Test Equipment

## Refrigerant Handling

### Punch-Type Swaging Tool

#### Single Tools

Durable heat-treated and plated alloy steel tool expands one end of copper tubing for connecting same size tubes.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
TOL01520	60275	7/8" O.D.
TOL01992	60467	1/2" O.D.
TOL01993	60468	5/8" O.D.
TOL01482	60469	3/8" O.D.
TOL01483	60470	3/4" O.D.

### Flare/Burnish Tool



Multi-faceted cone rolls a precise flare and simultaneously polishes it on brass, copper and aluminum.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	Capacity
TOL01519	60270	Flare/Burnish Tool	3/16" to 5/8" O.D.

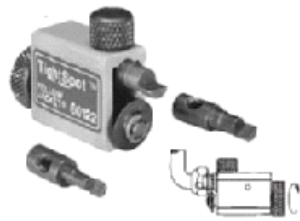
### Tube Deburring Tool



For fast deburring, rotate blade.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
TOL01462	60163	Deburring Tool
TOL01434	60164	Replacement Blade For Above

### Tight Spot™ Flare Cut-Off Tool



Designed specifically for tight situations where only the flare must be removed, this cutter makes clean right angle cuts on 1/4", 5/16" and 3/8" O.D. copper tubing. Interchangeable arbors for the three sizes included. Saves time -

1. Where flare nut cannot be moved back enough for regular cutter or saw.
2. Where it is critical not to shorten tubing.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
TOL01662	60122	Flare Cut-Off Tool With Arbors

## Test Instruments

### HVAC & R Service Tools by Ritchie

#### Vacuum Pump Oil



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
OIL00067	93091	Oil, Vacuum, pints, 24/cs
OIL00068	93092	Oil, Vacuum, quarts, 12/cs
OIL00069	93094	Oil, Vacuum, gallons, 4/cs

#### Vacuum Sealant



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
SEL00872	93090	Vacuum Fitting Sealant, 4 oz can with brush applicator
SEL00874	93089	Vacuum Fitting Sealant, 12 per case

## Refrigerant Handling

### Heat Gun for faster vacuums



600° and 1000°F settings.  
Shockproof and tough housing is durable and lightweight.  
Use for:

- Coil defrosting.
- Faster vacuums.
- Drying out condensation in motors, clutches etc.

Kits include gun, adapters and case.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
TOL01518	69092	Heat Gun Kit 115V - UI, CSE, CE

## Test Instruments by Amprobe

### Phase Sequencer and Motor Rotation Tester



Low cost tester identifies 3-phase line sequence and motor rotation. Wide operating voltage and frequency ensures compatibility with most 3-phase circuits. Built-in phase loss indicator prevents incorrect reading.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
TOL01953	PRM-1	Tool, Amprobe PRM-1 Phase Sequencer and Motor Rotation Tester

### Ultrasonic Leak Detector

Detects any pressurized gas leak due to an on-gas specific design. Ultrasonic sensor is unaffected by contaminant for reliable testing. Windy rooftop conditions do not affect sensor ability to detect leak. The PB-1 Parabola improves directionality and sensitivity for longer range testing. High sensitivity allows detection of arcing electrical switchgear from a safe distance.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
TOL01948	TMULD-300	Tool, Amprobe TMULD-300 Ultrasonic Leak Detector Kit

## Test Instruments by Robiir

### Hoses

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
HSE01100	67072	Hose, packaged set of three, 72" ENVIROGUARD, standard fittings, one each red, blue, and yellow
HSE00361	69036A	Hose, ENVIROGUARD 36" set
HSE00362	69072A	Hose, ENVIROGUARD 72" set
KIT05121	69060A	Kit, set of 3 hoses, red, blue, yellow, ENVIROGUARD with 45° QS fittings
HSE00355	39072A	Hose, quick seal 72" set
HSE00347	30036	Hose, set, 36"
HSE00351	30072	Hose, set, 72"

### Quick Seal Fitting Adapters

When disconnected, Quick Seal fittings automatically shut off charging hose to reduce loss of refrigerant, helping prevent "finger burn" and adding an extra measure of user safety. Adapter is solid brass with a large knurled nut (sizes for 1/4" hoses).

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
ADP00362	10248	1/4" MFL to 1/4" FFL 90° adapter
ADP00363	10234	1/4" MFL to 1/4" FFL straight adapter

### Replacement Gauges

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
GAG00148	11794	Compound gauge: 2½" dial, blue case

# Tools and Test Equipment

## Test Instruments by Robiir

### Side Wheel Manifold



Easy to use, durable, and designed for accuracy. Includes Lexan hand-wheel, vibration-free coded cases (2 1/2" in diameter for easy reading), brass manifold bar, hose holder and hanging hook with three color-coded hoses.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
MFD00778	40153	Standard side wheel manifold set with three 36" standard hoses and standard fittings, R134A
MFD00779	41630	Standard side wheel manifold set with three 72" standard hoses and standard fittings, R22 and R134A
MFD00780	41640	Standard size wheel manifold set with three 72" Enviro-Guard hoses and quick seal fittings, R22 and R134A
MFD00800	41670	High pressure manifold with three 60" Enviro-guard hoses with ball valves, 1/4" fittings. R410A

### Thermistor Vacuum Gauge

An essential part of all A/C-R service equipment. Works with the vacuum pump to measure the last, most critical inch of mercury during evacuation. Solid-state instrument constantly monitors and visually indicates the vacuum level to ensure the system is free of air and moisture before recharging.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
GAG00151	14830A	Thermistor vacuum gauge

### Vacuum Pump Oil



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
OIL00038	13203	Quart container; shipped 12 qts. per case
OIL00039	13204	gal container; shipped 4 gals. per case
OIL00046	13201	16 oz cans/12 cans per case

### Vacuum Pumps



Dimensions: 5 3/8" W x 9 3/4" H x 15" L. Two stages. 20 microns on factory rating. 1/4" and 1/2" MFL intake fitting. 15 oz (445 ml) oil capacity. 115V/60Hz., 27 lbs.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
PMP00662	15400	1/3HP, 4 CFM
PMP00661	15600	1/2HP, 6 CFM
PMP00663	14388	Compressor oil pump with cap and seal assembly and siphon

## Test Instruments by TIF

### Capacitor Tester

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
TOL01964	TIF 660	Tool, TIF 660 Capacitor Tester, range 1-2000 MFD

### Carbon Monoxide and Combustible Gas Detectors

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
SEN01167	TIF8500A	Sensor, TIF8500A Carbon Monoxide Analyzer
SEN01169	TIF8501	Sensor, Replacement Filter for TIF8500A
SEN01168	TIF8505	Sensor, Replacement Sensor for TIF8500A
SEN01165	TIF8800	Sensor, TIF-8800 Combustible Gas Detector
SEN01166	TIF8800A	Sensor, TIF-8800A Combustible Gas Detector
TIP00130	TIF8801	Tip, Sensing Tip for TIF8800 combustible gas detector

### HVAC Alyzer

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
TOL01959	TIF VA500R	Tool, TIF VA500A Digital HVAC Analyzer, measures temp, RH, dew point, velocity and volume, Btu/hr



**Test Instruments by TIF**

**Micron Gauge**

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
TOL01965	TIF 9450D	Tool, TIF 9450D Digital Micron Gauge, reads 500,000 – 200 microns
SEN01174	TIF 9453	Sensor, Sensing Probe Assembly for TIF 9450D micron gauge
HSE01393	TIF 9454	Hose, Connector Hose with filter for TIF 9450D micron gauge

**Refrigerant Leak Detectors**

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
SEN01163	TIF ZX-1	Sensor, TIF ZX-1 Heated Pentode Refrigerant Leak Detector, detects all halogenated refrigerants
KIT08170	TIFXP-2	Kit, Maintenance Kit for TIF XI, RX and XP leak detectors, includes 3 tips and 3 protectors
SEN01164	TIFZX-2	Sensor, Replacement Heated Pentode Sensor for TIF ZX-1 leak detector
ELM03209	TIFZX-8	Element, Filter Element for TIF Zx-1 leak detector, 10 pack
TOL01960	TIF 4000A	Tool, TIF 4000a Electronic Sight Glass
TOL01957	TIF 5201	Tool, Leaksorce for TIF H10A leak detector
KIT08224	TIF 555	Kit, Maintenance Kit for TIF refrigerant leak detectors, includes 3 tips and 3 protectors
TOL01961	TIF 5750A	Tool, TIF 5750A Super Scanner Refrigerant Leak Detector, includes case and spare sensing tip
TOL01956	TIF H10A	Tool, TIF H10A Pump Style Refrigerant Leak Detector, works on all CFC, HCFC and HFC leaks
CAS01305	TIF XP-3	Case, Carrying Holster for TIF XI-1, RX-1 and XP-1 leak detectors

**Refrigerant Scales and Meters**

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
TOL01952	TIF 9010A	Tool, TIF 9010A Slimline Refrigerant Scale
TOL01958	TIF 9020	Tool, Promax ADS-100 Slimline Refrigerant Scale, 200-lb capacity

**Tools and Accessories by Goodway**

**Adjustable Buffing Tool and Scraper Tool**



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
TOL01710	GTC-203	Cutting/buffing tool for 5/16"–3/8" ID tubes
TOL01711	GTC-203DT	Cutting/buffing tool for 5/16"–3/8" ID tubes
TOL01680	GTC-204	Stainless steel wire buffing tool for 3/8"–1/2" ID tubes (9.5-12.7mm)
TOL01664	GTC-204-DT	Buffing tool for 3/8"–1/2" ID tubes with drill tip
TOL01712	GTC-204Q	Cutting/buffing tool for 3/8"–1/2" ID tubes w/quick connect
TOL01681	GTC-205	Stainless steel wire buffing tool for 1/2"–9/16" ID tubes (12.7–14.3)
TOL01665	GTC-205-DT	Buffing tool for 1/2"–9/16" ID tubes with drill tip
TOL01713	GTC-205Q	Cutting/buffing tool for 1/2"–9/16" ID tubes w/quick connect
TOL01714	GTC-205Q-DT	Cutting/buffing tool for 1/2"–9/16" ID tubes w/quick connect and drill tip
TOL01682	GTC-206	Stainless steel wire buffing tool for ID tubes 5/8" - 1" (15.9-25.4mm)
TOL01667	GTC-206-DT	Buffing tool for 5/8"–1" ID tubes with drill tip
TOL01715	GTC-206Q	Cutting/buffing tool for 5/8"–1" ID tubes w/quick connect
TOL01716	GTC-206Q-DT	Cutting/buffing tool for 5/8"–1" ID tubes w/drill tip and quick connect fittings
BLD01014	GTC-207	Replacement blades for GTC-203 and GTC-204
BLD01015	GTC-208A	Replacement blades for GTC-205
BLD01016	GTC-208B	Replacement blades for GTC-206
TOL01717	GTC-209	Adjusting jig for GTC-203(DT) and GTC-204(DT)
TOL01666	TST-500	Triangular scraper tool 5/8"–1" I.D.

# Tools and Test Equipment

## Tools and Accessories by Goodway

### Boiler Tube Brushes

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
BRU00195	GTC-151-1 3/8	1-3/8" Steel Brush for a boiler tube
BRU00306	GTC-151-1 5/8	Steel Brush for a 1-5/8" OD boiler tube
BRU00303	GTC-151-2	Steel Brush for a 2" OD boiler tube
BRU00196	GTC-151-2 1/2	2-1/2" Steel Brush for a boiler tube
BRU00316	GTC-151-3	3" Steel Brush for a boiler tube
BRU00317	GTC-151-3 1/2	3-1/2" Steel Brush for a boiler tube
BRU00318	GTC-151-4	4" Steel Brush for a boiler tube

### Carbide Drills

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
TOL01718	PTB-025	1/4"
TOL01719	PTB-037	3/8"
TOL01720	PTB-043	7/16"
TOL01721	PTB-050	1/2"
TOL01722	PTB-050-Q	1/2" with quick connect
TOL01697	PTB-056	9/16"
TOL01723	PTB-062	5/8"
TOL01724	PTB-062-Q	5/8" with quick connect
TOL01725	PTB-068	1 1/16"

### Carrying Strap and Bag

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
SRP00880	CS-18	Flexible Shaft Carry Strap
CAS01275	SB-26	Carrying Bag for flexible shafts

### Cleaning Tools for tubes over 1" I.D.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
TOL01900	GTC-223	Buffing Tool for 1"-3" ID tubes
BLD01020	GTC-224	Replacement Blades for GTC-223 buffing tool
BRU00311	TCB-012S	1-1/4" OD Stainless Steel Brush
BRU00312	TCB-015S	1-1/2" OD Stainless Steel Brush
BRU00305	TCB-020B	2" OD Brass Brush
BRU00304	TCB-020N	2" OD Nylon Brush

### Cup Brush Tools—brass or stainless steel

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
BRU00208	CBT-075B	Brass cup brush for 1/2"-3/4" ID tubes
BRU00209	CBT-075B-Q	Brass cup brush for 1/2"-3/4" ID tubes w/quick connect
BRU00210	CBT-075S	S.S. cup brush for 1/2"-3/4" ID tubes
BRU00211	CBT-075S-Q	S.S. cup brush for 1/2"-3/4" ID tubes w/quick connect

### Dolly

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
TOL01733	RAM-4-DOL	Ream-A-Matic Dolly Assembly
TOL01749	RAM-DOLLY-C	Heavy-Duty Contractor Dolly for RAM-4, RAM-5SF and RAM-6

**Tools and Accessories by Goodway**

**Flex Hone Abrasive Tools**



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
TOL01700	FHT-025	1/4"
TOL01701	FHT-031	5/16"
TOL01702	FHT-037	3/8"
TOL01703	FHT-043	7/16"
TOL01704	FHT-050	1/2"
TOL01705	FHT-056	9/16"
TOL01698	FHT-062	5/8"
TOL01706	FHT-068	11/16"
TOL01707	FHT-075	3/4"
TOL01708	FHT-087	7/8"
TOL01709	FHT-100	1"
TOL01924	FHT-043-Q	7/16" with quick connect
TOL01925	FHT-050-Q	1/2" with quick connect
TOL01926	FHT-056-Q	9/16" with quick connect
TOL01927	FHT-062-Q	5/8" with quick connect
TOL01928	FHT-068-Q	11/16" with quick connect
TOL01929	FHT-075-Q	3/4" with quick connect
TOL01930	FHT-087-Q	7/8" with quick connect
TOL01931	FHT-100-Q	1" with quick connect

**Pressure Washer Accessories**

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
SOV00029	APC100-1	Cleaner/Degreaser for pressure washers, 1 gal bottle
NOZ00821	PWN-002	Multi-jet Nozzle
FTG00952	USF-001	Universal Swivel Fitting
HSE01366	WSH-R50	Red Rubber Water Supply Hose 5/8" ID X 50' for -25°F – 180°F water

**Repair Couplings and Tools**

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
CPL00982	713-1	Drive-End Repair Crimp Coupling for GTC-701 shafts
CPL00983	713-2	Drive-End Repair Crimp Coupling for GTC-702 shafts
CPL00975	713-3	Crimp Coupling, drive-end for GTC-703 shafts
CPL00984	713-4	Drive-End Repair Clamp Coupling for GTC-720, GTC-721, GTC-721G and GTC-821 shafts
CPL00976	713-5	Crimp Coupling, drive-end for GTC-704 shafts
WAS01026	715-1	Thrust Washer for GTC-701, 702 & 703 shafts
WAS01027	715-6	Thrust Washer for GTC-704 shafts
CPL00985	717-1	Tool End Repair Crimp Coupling for GTC-701 shafts
CPL00986	717-2	Tool End Repair Crimp Coupling for GTC-702 shafts
CPL00990	717-2Q	Crimp Coupling for GTC-702 quick-connect shafts
CPL00977	717-3	Crimp Coupling, tool-end for GTC-703 shafts
CPL00978	717-3Q	Crimp Coupling for GTC-703 quick-connect shafts
CPL00987	717-4	Tool-end Repair Crimp Coupling for GTC-720, GTC-721, GTC-721G and GTC-821 shafts
CPL00979	717-6	Crimp Coupling, tool-end for GTC-704 shafts
CPL00980	717-6Q	Crimp Coupling for GTC-704 quick-connect shafts
TOL01684	GTC-CT5	Crimping Tool with punch for flexible shaft repair
TOL01696	GTC-CTP	Replacement Punch for GTC-CT5

**Shaft Maintenance**

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
TOL01699	GSL-705	Flexible Shaft Lubricator
LUB00039	GSL-LU1	16 oz bottle of Flexible Shaft Lubricator Fluid
PLU00923	GTC-705-8	Sight Glass Plug for GSL-705 lubricator

# Tools and Test Equipment

## Tools and Accessories by Goodway

### Vacuum Accessories

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
FLR04835	8050	HEPA Filter for model EV-30H
FLR04836	8051-12	Paper Filter Collection Bag with plastic tank liner (12-pack)
FLR04837	8052	Filter Protector
FLR04838	EV-30-FILTER	Replacement Polyester Filter for EV-30

## Welding and Brazing Products

### Brazing And Soldering Selection Guide



SERVICEFIRST ITEM NO	VENDOR ITEM NO	Alloy Name	AWS SPEC #	Alloy Composition Percentage			Temp Range °F	
				Silver	Copper	Zinc	melting	Flowing
ALY00092	98296	Easy-Flo® 45	Bag-1	45	15	16	1125	1145

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	Alloy Composition Percentage			Temp Range °F	
			Copper	Zinc	Tin	melting	Flowing
ALY00089	98090	ALLOY; BRAZE 401 1/16IN. DIA X 1 OZ PKG	40	30	30	1245	1340

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Alloy Name	DESCRIPTION	Alloy Composition Percentage			Temp Range °F	
				Copper	Zinc	Tin	melting	Flowing
ALY00091	98092	Braze 401	ALLOY; BRAZE 401 1/16IN. DIA X 5 OZ PKG	40	30	30	1245	1340

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Alloy Name	DESCRIPTION	AWS SPEC #
ALY00119	99076	Handy Flux®	ALLOY; HANDY 1 FLUX CORED BRAZE 505, .075" DIA X 20" X 1/4#	FB3A

**Welding and Brazing Products**

**Brazing And Soldering Selection Guide**



SERVICEFIRST ITEM NO	VENDOR ITEM NO	Typical Application	DESCRIPTION	AWS SPEC #
ALY00120	99080	All-purpose, low temperature flux for brazing both ferrous and non-ferrous metals and alloys. Temperature protection up to 1600° F.	ALLOY; HANDY 1 FLUX CORED BRAZE 380, .075" DIA X 20" X 1/4#	FB3A

**Brazing Flux by Lucas-Milhaupt**



General-purpose brazing flux. Recommended where fluxing is required as part of the brazing operation. For use in brazing both ferrous and nonferrous metals and alloys.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
FLX00003	97030	Handy Flux, white, 7 oz. jar with brush cap

**Brazing Supplies by Wolverine Joining Technologies**

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
ALY00095	31223	Silvaloy 15
ALY00096	31221	Silvaloy 5
ALY00097	57302	Silvaloy A45
ALY00098	57573	Silvaloy A50N
ALY00099	31222	Silvaloy 6
ALY00100	57303	Silvaloy A45
ALY00101	30492	Silvaloy 15
ALY00102	57304	Silvaloy A45
ALY00103	57305	Silvaloy A56T
ALY00104	57575	Silvaloy A50N
ALY00106	57713	Silvaloy A40T
ALY00107	59959	Silvaloy A45T
ALY00108	59200	Silvaloy A45T
ALY00109	57306	Silvaloy A56T
ALY00110	57715	Silvaloy A40T
ALY00111	59201	Silvaloy A45T
ALY00112	30947	Silvaloy 6F

**Comparison And Specification Chart Of Copper-Phosphorus Brazing Alloys**

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	HANDY & HARMAN/L-M ALLOY	JW HARRIS # Dynaflow			
ALY00006	95000	.125" x .050" x 20" 1# Plastic Tube	Fos-Flo 7	21035			
ALY00004	95120	.125" X .050" X 20" 1# Plastic Tube 95120	Sil-Fos 6M	66000			
		Alloy Composition Percentage			Temp Range °F		
SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	Silver	Copper	Phosphorus	melting	Flowing
ALY00017	95168	ALLOY; SIL-FOS 15.125SQ X 20IN.(1#TUBE)	15	80	5	1190	1475
		Alloy Composition Percentage			Temp Range °F		
SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	Silver	Copper	Phosphorus	melting	Flowing
ALY00028	95090	ALLOY; SIL-FOS 6 .125IN. X .050IN. X 20IN.(1# TUBE)	6	86.8	7.2	1190	1325

# Tools and Test Equipment

## Welding and Brazing Products

### Comparison And Specification Of Cadmium-Free, Silver Brazing Alloy



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	AWS SPEC #	JW HARRIS	
				ALLOYS	PART #
ALY00014	98001	1/16"DIA x 3 to Pkg	Bag-5	Safety-Silv 45 (formerly 1370)	76313



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	AWS SPEC #	JW HARRIS	
				ALLOYS	PART #
ALY00015	98002	1/16"DIA x 5 to Pkg	Bag-5	Safety-Silv 45 (formerly 1370)	76315

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	AWS SPEC #	JW HARRIS	
				ALLOYS	PART #
ALY00086	98010	1/16"DIA x 1 to Pkg	Bag-36	Safety-Silv 45T (formerly 1245)	81001

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	AWS SPEC #	ALLOYS	PART #	ENGELHARD
						ALLOYS
ALY00007	98060	1/16"DIA x 1 to Pkg	BAG-7	Safety-Silv 56 (formerly 1200)	75310	Silvaloy A-56

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	AWS SPEC #	JW HARRIS	
				ALLOYS	PART #
ALY00008	98061	1/16"DIA x 3 to Pkg	Bag-7	Safety-Silv 56 (formerly 1200)	75313

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	AWS SPEC #	JW HARRIS	
				ALLOYS	PART #
ALY00009	98062	1/16"DIA x 5 to Pkg	BAG-7	Safety-Silv 56 (formerly 1200)	75315

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	HANDY & HARMAN ALLOY	AWS SPEC #

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	HANDY & HARMAN ALLOY	AWS SPEC #

### Comparison Chart Of Low-Temperature Soft Solders

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	LUCAS ALLOY	MILHAUPT ALLOY	JW HARRIS	
					ALLOYS	PART #
SLD00004	96050	Solid Core 50 Sn/50Pb 1/8" DIA x 1# Spool	Solderite	50/50	10028	10028

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	LUCAS ALLOY	MILHAUPT ALLOY	JW HARRIS	
					ALLOYS	PART #
SLD00012	96110	Solid Core 60 Sn/40Pb 1/8" DIA x 1# Spool	Solderite	60/40	10036	10036

### Comparison Chart Of Silver Bearing Solders

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	LUCAS ALLOY	MILHAUPT ALLOY	JW HARRIS	
					ALLOYS	PART #
SLD00003	96040	1/8" DIA x 1# Spool	Clean 'n Brite 95/5	95Sn/5Sb	95/5	10030

Tools and Test Equipment

**Welding and Brazing Products**

**Comparison Chart Of Silver Bearing Solders**

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION	LUCAS ALLOY	MILHAUPT ALLOY	JW HARRIS	
					ALLOYS	PART #
SLD00005	96150	1/8" DIA x 1# Spool	Clean 'n Brite No-Lead	4Cu/95.5 Sn/.5 Ag	Stay-Safe 50*	15000

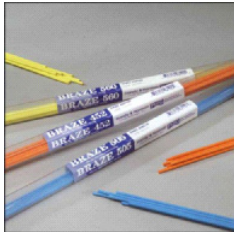
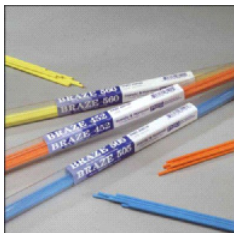
**Copper Brazing Alloys by Lucas-Milhaupt**



Allows the joining of copper to copper without a flux-based alloy (brass and bronze) with a flux.  
Package: 1 lb plastic tube.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
ALY00001	95150	Sil-Fos 15, 15% Ag, 125" x .05" x 20"
ALY00005	95060	Sil-Fos 5, 5% Ag, 125" x .05" x 20"

**Flux Coated Rods**



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
ROD00940	98120	ROD; BRAZE 560 FLUX-COAT 4 OZ TUBE

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
ROD00941	98100	ROD; BRAZE 452 FLUX-COAT 4 OZ TUBE

**Fluxes Brazing by Wolverine Joining Technologies**

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
FLX00020	75014	Ultra Flux
FLX00021	75079	Silvabrite 100 Flux
FLX00022	75002	Wolverine Soldering Flux
FLX00023	75012	Wolverine Ultra Flux
FLX00024	75005	Wolverine Soldering Flux

**High-Silver Brazing Alloys by Lucas-Milhaupt**



Cadmium-free brazing alloy. For joining ferrous and nonferrous materials.  
Package: 1 Troy ounce.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
ALY00010	98070	BRAZE 505, 50% Ag, 1/16" diameter
ALY00013	98000	BRAZE 450, 45% Ag, 1/16" diameter
ROD00939	98110	BRAZE 505, 50% Ag, flux-coated rods, 4 oz tube

**Silver-Bearing Solders by Lucas-Milhaupt**

Silver-bearing, lead-free soft solders. High strength, general-purpose solders. Higher strength than tin/ lead solders and safe for potable water systems.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
SLD00002	96010	Clean 'N Brite 6, 94Sn, 6 Ag, 1/8" dia. x 1 lb spool

## Tools and Test Equipment

### Welding and Brazing Products

#### Solder Fluxes by Lucas-Milhaupt



SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
FLX00001	97000	TEC Liquid Flux, 4 oz squeeze bottle
FLX00002	97020	Clean 'N Brite Paste Flux, 4 oz jar with brush cap

#### Soldering Supplies by Wolverine Joining Technologies

SERVICEFIRST ITEM NO	VENDOR ITEM NO	DESCRIPTION
SLD00023	53113	Silvabrite S
SLD00024	57263	Wolverine 95/5
SLD00026	56619	Silvabrite
SLD00027	53137	Wolverine 50/50
SLD00028	58463	Wolverine 50/50 Rosin Core
SLD00029	58464	Wolverine 50/50 Acid Core

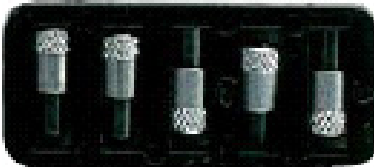
### Welding and Brazing Products/TurboTorch

#### Accessories

##### "Total LP" Hose

SERVICEFIRST ITEM NO	VENDOR ITEM NO	New Model	Description
HSE01414	1412-0080	H-12	12ft. Hose "B" Fitting

##### F-1 Flints for L-1



SERVICEFIRST ITEM NO	VENDOR ITEM NO	Description
TOL02009	1423-0024	TOOL; F-1 FLINTS FOR L-1 STRIKER

##### L-1 Single Flint Striker



SERVICEFIRST ITEM NO	VENDOR ITEM NO	Description
TOL02007	1423-0023	TOOL; L-1 SINGLE FLINT STRIKER

##### Mixer Adapters



SERVICEFIRST ITEM NO	VENDOR ITEM NO	New Model	Description
ADP01029	0386-0554	VM-J	ADAPTER; VM-J MIXER-ADAPTER FOR TURBO-TORCH OXY-ACETYLENE HANDLES



**Welding and Brazing Products/TurboTorch**

**Accessories**

**Oxy/Acetylene Twin Hose**



SERVICEFIRST ITEM NO	VENDOR ITEM NO	New Model	Description
HSE01421	252-03P	252-03P	12 1/2 ft. Twin Hose "A" Fitting
HSE01413	0386-1091	AH-24	24 ft. Hose "A" Fitting
HSE01407	0386-1090	AH-12	12 ft. Hose "A" Fitting

**Torch Shield**



• (8" x 12")

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Tip No	Description
SHD00369	0386-0561	PL-812	SHIELD; PL-812 PROLINE TORCH SHIELD

**Air Acetylene**

**Extreme Self Lighting Replacement Tips**



Increase the range of your torch kit with additional self lighting tips. All TurboTorch tips feature an orifice screw that can be easily removed for simple cleaning or replacement, extending the life of the tip.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Tip No	Description	Tip Size		Soft Solder	
				IN	MM	IN	MM
TIP00147	0386-0874	PL-3A	TIP; PL-3A SELF LIGHTING ACETYLENE TIP	4-Jan	5	1/4/2001	25-Oct
TIP00150	0386-0820	PL-12A	TIP; PL-12A SELF LIGHTING ACETYLENE TIP	8-Mar	9.5	4-Feb	50-90
TIP00148	0386-0818	PL-5A	TIP; PL-5A SELF LIGHTING ACETYLENE TIP	16-Mar	6.4	3/4-1 1/2	20-40
TIP00149	0386-0819	PL-8A	TIP; PL-8A SELF LIGHTING ACETYLENE TIP	16-May	7.9	2-Jan	25-50

# Tools and Test Equipment

## Welding and Brazing Products/TurboTorch

### Air Acetylene

#### Extreme Self Lighting Torch Kits

Extreme Swirl Technology delivers high heat, super fast, reducing brazing time and fuel consumption. All air acetylene kits include gauge guards and cylinder wrench. Our best line of self-lighting torch kits are available in either valve rear or valve forward configurations. Improved design features quick-disconnect handles and tips, replaceable tips and color coded "O" rings for quick gas identification.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Description	Soft Solder		Tips
			IN	MM	
KIT08344	0386-0867	KIT; TURBO TORCH PLF-8A-DLX-B	0867 2"	50mm	PL-8A
KIT08308	0386-0833	KIT; TURBO TORCH PL-5ADLX-B KIT	1-1/2"	40mm	PL-5A
KIT08309	0386-0834	KIT; TURBO TORCH PL-8ADLX-MC KIT	2"	50mm	PL-8A
KIT08351	0386-0835	KIT; PL-8ADLX-B SELF LIGHTING ACETYLENE TORCH KIT	2"	50mm	PL-8A
KIT08343	0386-0866	KIT; TURBO TORCH PLF-8A-DLX-MC	2"	50mm	PL-8A
KIT08339	0386-0836	KIT; TURBO TORCH PL-12ADLX-B KIT	4"	90mm	PL-12A

#### Extreme™ Standard Tips



A full series of manual lighting tips can be used with any Air Acetylene torch (PLF-A5 or G-4) handle. Add range to your torch kit with economical tips that also feature a removable orifice screw.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Tip No	Description	Tip Size		Soft Solder	
				IN	MM	IN	MM
TIP00146	386-0105	A-14	TIP; A-14 AIR/ACETYLEN E TIP	2-Jan	12.7	2-3 1/2	50-90
TIP00145	386-0104	A-11	TIP; A-11 AIR/ACETYLEN E TIP	16-Jul	11.1	1 1/2-3	40-75
TIP00144	386-0103	A-8	TIP; A-8 AIR/ACETYLEN E TIP	16-May	9.5	2-Jan	25-50
TIP00132	0386-0106	A-32	TIP; A-32 ACETYLENE TIP	4-Mar	19	6-Apr	100-150
TIP00131	0386-0100	A-2	TIP; A-2 ACETYLENE TIP	8-Jan	4.8	1/8-1/2	15-Mar

**Welding and Brazing Products/TurboTorch**

**Air Acetylene**

**Extreme™ Standard Torch Kits**



**COMPONENTS**

- AR-B (CGA 520) Regulator
- G-4 Handle
- A-3 Tip
- Soft solders to 3" (75mm)
- Silver brazes to 1-5/8" (40mm)
- "B" Tank Connection
- Instruction Manual
- AH-12 Hose
- A-11 Tip

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Description	Soft Solder		Tips	Valve Position
			IN	MM		
KIT08307	0386-0339	KIT; TURBO TORCH X-6MC AIR/ACETYLENE KIT	2"	50mm	A-3, A-8	Rear
KIT08306	0386-0338	KIT; TURBO TORCH X-5B AIR/ACETYLENE KIT	1-1/2"	40mm	A-5	Rear
KIT08349	0386-0336	KIT; X-4B AIR/ACETYLENE TORCH KIT	3-1/2"	90mm	A-5, A-14	Rear
KIT08348	0386-0335	KIT; X-3B AIR/ACETYLENE TORCH KIT	3"	75mm	A-3, A-11	Rear

**Swirl Air Acetylene Components**



SERVICEFIRST ITEM NO	VENDOR ITEM NO	New Model	Description
HDL00915	0386-0308	G4 TurboTorch	HANDLE; G-4 TURBO TORCH ACETYLENE HANDLE
REG00440	0386-0726	AR-MC	REGULATOR; TURBO TORCH AR-MC ACETYLENE REGULATOR
REG00433	0386-0725	AR-B	REGULATOR; TURBO TORCH AR-B ACETYLENE REGULATOR

**Oxy-Acetylene Components**

**Acetylene & Oxygen Regulators**

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Description	H P GAUGE		L P GAUGE	
			PSIG	KPA	PSIG	KPA
REG00445	201-05FP	TurboTorch 201-05FP Acetylene CGA-200				
REG00441	0386-0786	TurboTorch 221-05FP Oxygen CGA-540	4,000	28,000	100	700
REG00449	SKR 540R	REGULATOR; TURBOSKILL SKR 540R REAR MOUNT OXYGEN REGULATOR	4,000	28,000	100	700

# Tools and Test Equipment

## Welding and Brazing Products/TurboTorch

### Oxy-Acetylene Components

#### Brazing and Multi Flame Nozzles

##### Brazing Nozzles - J Series - Light Duty

Exclusive "OPTIMIZED" nozzles in largest choice of types and sizes, plus uniformity of tip orifice and size for all series TurboTorch offers a complete range of nozzles, tips and elbows with a size for every application including: Welding, brazing, heating. Nozzles designed for "optimum" performance - Each complete nozzle has its own built-in spiral mixer, individually designed for each tip size and flame characteristic. Each nozzle is individually swaged to insure proper alignment for uniform flame, sizing and free-flow contour. Orifice sizes are common for all series - Regardless of nozzle series (300FC, 100FC, J), flame characteristic or fuel gas used. This uniformity of orifice sizes simplifies nozzle selection, eliminates chances of ordering and wrong size when changing from one type of nozzle to another.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Description	Tip Size	Handle
NOZ00833	2-W-J-CS	NOZZLE, WJ, WITH MIXER, FOR CWK SERIES, 2-W-J-CS	2	103-01FP

##### Multi Flame Heating Nozzles - J Series - Light Duty

Exclusive "OPTIMIZED" nozzles in largest choice of types and sizes, plus uniformity of tip orifice and size for all series TurboTorch offers a complete range of nozzles, tips and elbows with a size for every application including: Welding, brazing, heating. Nozzles designed for "optimum" performance - Each complete nozzle has its own built-in spiral mixer, individually designed for each tip size and flame characteristic. Each nozzle is individually swaged to insure proper alignment for uniform flame, sizing and free-flow contour. Orifice sizes are common for all series - Regardless of nozzle series (300FC, 100FC, J), flame characteristic or fuel gas used. This uniformity of orifice sizes simplifies nozzle selection, eliminates chances of ordering and wrong size when changing from one type of nozzle to another.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	New Model	Torch Handle	Description
TOL02017	0325-0109	VMA-J-15 Clamshell	103-01FP, J-28, J-40	TOOL; VMA-J-15 MULTI-FLAME NOZZLE

##### Cutting Attachments Design & Construction



SERVICEFIRST ITEM NO	VENDOR ITEM NO	Description	Cutting Range	Head Angle
TOL02215	0386-0378	TOOL; 151-01FP CUTTING ATTACHMENT FOR 100 SERIES, 0386-0378	6"/150mm	90°

##### Cutting Tips



SERVICEFIRST ITEM NO	VENDOR ITEM NO	New Model	Description	Cut Capacity
TIP00170	0-3-101-CS	0-3-101-CS	TIP; CUTTING, SIZE 0, CUTTING CAPACITY TO 1/2" MATERIAL, USED WITH 151-01FP AND 152-01FP, 0-3-101-CS	1/2" (12mm)

##### Purging Regulator

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Description	H P GAUGE		L P GAUGE	
			PSIG	KPA	PSIG	KPA
REG00434	0386-0814	Nitrogen CGA-580	4,000	28,000	600	4,200
REG00442	0386-0813	Nitrogen CGA-580	4,000	28,000	400	2,800

Tools and Test Equipment

**Welding and Brazing Products/TurboTorch**

**Oxy-Acetylene Components**

**Torch Handles**

**Victor Torch Handles are available with the following safety features:**

- Built-In Flashback Arrestors - on most models, see chart below
- Built-in Reverse Flow Check Valves
- Works with all fuel gases. There are pressure restrictions for different gases Victor™ Torch Handles are offered in Heavy-Duty (315FC) and Medium-Duty (100FC) models, and also feature Victor Traditional threaded assemblies for quick economical repair if service is necessary.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	New Model	Description	Weight	Length
HDL00925	0386-0311	103-01FP	TurboTorch Light Duty Boxed	8.5 oz.	6"
HDL00303	101-01FP	101-01FP	TurboTorch Medium Duty Boxed	14oz.	8 1/2"

**Oxy-Fuel Components**

**CGA 520 Acetylene (B)**



CGA Compressed Gas Cylinder Valve Outlets & Connections

- Acetylene 520, 510
- Argon 580
- Butane 510
- Helium 580
- Nitrogen 580
- Oxygen 540
- Propane 510

**NOTE:** These CGA connections are designed by Compressed Gas Association, Standard V-1, 6th Edition, 1987,

For latest standards and connections, contact Compressed Gas Association.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Description
FTG01024	0969-0005	SWIVEL 1/4-18 NPT, 1-3/4" Long
NUT01043	0969-0003	NUT .899-18 NGO RH(F)

**Portable Tote Launch Cross Reference Sheet**

SERVICEFIRST ITEM NO	VENDOR ITEM NO	New Model	Description
TOL02524	0386-1323	CST-CPT	Light Duty handle, cutting tip kit WITH TANKS, includes check valves

**Portable Tote Launch Product Specification Sheet**

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Description	FUEL REG	Handle
TOL02075	SKMC-150C	Light Duty Oxy-Fuel Cutting, Brazing, Heating Equipment Only	SKR-200R	SKH-7A
TOL01997	0426-0005	Light Duty Oxy-Fuel Brazing, Heating Plastic Tote With Tanks	SKR-200R	SKH-7A
TOL02074	SKMC-150	Light Duty Oxy-Fuel Brazing, Heating Equipment Only	SKR-200R	SKH-7A

# Tools and Test Equipment

## Welding and Brazing Products/TurboTorch

### Propane & Mapp®

#### Proline Standard Propane & MAPP Kits



Designed with the same Swirl Combustion Technology that is featured in the Proline Self Lighting Series, the manual series offers an economical alternative for use with Propane and Mapp gasses. A variety of tips sizes helps complete the job quickly and economically.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Description	Tip Size		Propane Soft Solder	
			IN	MM	IN	MM
TIP00136	0386-0151	TIP; T-3 PROPANE AND MAPP TIP	7/16	11.1	1/4-1	25-Jun
TIP00133	0386-0152	TIP; T-4 PROPANE AND MAPP TIP	1/2	12.7	1/4-1 1/2	Oct-40
KIT08300	0386-0007	KIT; TURBO TORCH LP-2 LP STARTER KIT				

#### Ske Kits & Additioal Torches



The swirl combustion tip gives you the best burn and cuts brazing time by 30%. Flame tube swivels 360° for work at any angle. Push trigger ignition. Rugged brass regulator. Offered with either #3 or #4 size tip with replaceable tip.

- Solid brass construction for lasting durability
- Flame control valve for precise heat adjustments
- May be used with any 14.1 oz. propane tank
- Great for light application jobs: Soldering, Thawing frozen pipes, Loosening rusty nuts & bolts, Heating, Light maintenance

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Kit No	Description
TOL02004	0386-0860	TP-10	TOOL; TURBO TORCH TP-10 PENCIL FLAME PROPANE TORCH

### Propane & Mapp®

#### Extreme™ Self Lighting Torches



Includes TX504 and T503 tip for maximum versatility.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Kit No	Description
TOL02134	TX504	TX504	TOOL; TURBOTORCH TX504 SELF LIGHTING HAND TORCH WITH TIP
TOL02132	TX500	TX500	TOOL; TURBOTORCH TX500 PROPAK WITH BOTH TIPS

#### Extreme™ STK Torches and Tips



A longtime industry benchmark, the TurboTorch line of STK torches and tips now features the new Extreme Swirl technology. All torches have 360 degree swivel tips and easy to clean orifice screws. Torch kits include the STK-R Pressure Regulator with CGA-600 connection and instruction manuals.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Description	MAPP Soft Solder		Propane Silver Braze	
			IN	MM	IN	MM
TIP00140	0386-0850	TIP; TURBO TORCH ST-33 SELF-IGNITING TIP ASSEMBLY	1/4"-3 1/2"	6-90mm	1/4-1"	6-25mm
TIP00138	0386-0171	TIP; ST-3 HAND TORCH TIP	1/4"-3 1/2"	6-90mm	1/4-1"	6-25mm
TOL02012	0386-0851	TOOL; STK-99 HAND TORCH				
TOL02011	0386-0403	TOOL; STK-9 HAND TORCH				
KIT08352	0386-1283	KIT; STK-11 DOUBLE BARREL TORCH KIT				

**Welding and Brazing Products/TurboTorch**

**Propane & Mapp®**

**Proline Self Lighting Propane & MAPP Kits**



- COMPONENTS**
- RL-P Regulator, CGA-510
  - H-4 Handle
  - H-12 Hose
  - PL-4T Tip
  - Soft Solders 1 1/2" (40mm)
  - Silver Brazes 3/4" (20mm)
  - Instruction Manual

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Kit No	Description	Soft Solder		Tips
				IN	MM	
KIT08340	0386-0838	PL-4TDLX	KIT; TURBO TORCH PL-4TDLX KIT	1-1/2"	40mm	PL-4T

**Snake Kits & Additional Torches**



SERVICEFIRST ITEM NO	VENDOR ITEM NO	Description
TOL01999	0426-4001	TOOL; TURBOSKILL SK-7000 SELF LIGHTING HAND TORCH

**Regulators/Kits**



SERVICEFIRST ITEM NO	VENDOR ITEM NO	New Model	Description
REG00443	0426-2001	SKRP-425	REGULATOR;TURBO TORCH SKRP-425 NITROGEN REGULATOR
KIT08345	0426-0009	SKP-40T	TurboSkill Carrying Tote

**TT-LP TurboTest Refrigerant Leak Detector**

The TurboTest "Total LP" Leak Detector fits standard TurboTorch MAPP® (MT-1) or Propane (PT-1) tanks. The TurboTest "Total LP" is compact, easy to use and capable of detecting leaks of 8 oz. per year. It's made of brass construction with a stainless steel shield. Sniffer tube swivels 360° for easy handling. Heavy copper reactor plate (TT-R-LP) gives extra long life, yet is easily replaceable. Rugged stainless steel shroud will not rust. Easy-to-clean orifice is easily removed, reversed and blown clean. Steady, uniform swirl combustion flame. Complete operating instructions are included.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Description
TOL02021	TT-LP	TOOL; TURBOTEST REFRIGERANT LEAK DETECTOR, FITS STANDARD MAPP OR PROPANE TANK

# Tools and Test Equipment

## Welding and Brazing Products/TurboTorch

### Turbo Cylinders & Tanks

- Propane replacement tank for use with all TurboTorch hand torches. Also for use with TurboTorch #TT-LP Leak Detector.
- Contains 14.1 oz. propane.
- CGA 600 Connection
- Non-Refillable

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Kit No	Description
0916-0009	TNK00877	MT-1	TANK; MT-1 MAPP TANK, CGA 600 CONNECTION, CONTAINS 16 OZ. MAPP GAS, NON-REFILLABLE
TNK00876	0916-0004	PT-1	TANK; PT-1 PROPANE TANK, CGA 600 CONNECTION, CONTAINS 14.1 OZ. PROPANE, NON-REFILLABLE

### TurboTotes



Durable composite construction fits “B” tank. Features include a hose rack for storage while not in use and helps protect the regulator from accidental damage. A large handle keeps your tank portable. Your spark lighter is close at hand in its own holder accessory. “B” tote can be changed from one tank to another without special tools. A heavy nylon belt can keep your outfit secure on scaffolds or in the truck.

SERVICEFIRST ITEM NO	VENDOR ITEM NO	Kit No	Description
TOL02081	TT-MC	TT-MC	TOOL; TURBOTORCH TT-MC TANK TOTE FOR MC OR MT-1 MAPP TANKS
TOL02006	1421-0034	TT-B	TOOL; TT-B "B" TANK TOTE
TOL02005	1421-0016	TT-150	TOOL; TT-150 "B" TANK TOTE



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ADP00362	10248	501	ADP01121	36018	495	BAS01856	81101	251
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ADP00844	A 04585	303	AL06647	935721	316	BAS02047	PR-35IN-M	252
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ADP00918	19106	393	ALY00007	98060	508	BAT00038	7-ALC	180
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19120	CPL00946	498	1B5V68	SHE01320	25	1P211/2251/2C24	FLR02969	255
19125	CPL00947	396	1B5V70	SHE01321	25	1P2424C24	FLR01785	255
19125	CPL00947	498	1B5V74	SHE01322	25	1P2430C24	FLR02791	255
19128	CPL00944	395	1B5V80	SHE01323	25	1P2525C24	FLR01937	255
19128	CPL00944	487	1B5V86	SHE01324	25	1P2830C24	FLR02710	255
19129	CPL00955	395	1B5V90	SHE01325	25	1P3032C24	FLR02711	255
19129	CPL00955	487	1B5V94	SHE01326	25	1P3036C24	FLR04026	255
19130	ADP00938	396	1B64DS	SHE00778	27	1P341/2233/4C24	FLR06007	255
19130	ADP00938	495	1B66DS	SHE00779	27	1T1B84	SHE01062	21
19131	ADP00921	396	1B68DS	SHE00780	27	1TB110	SHE00533	21
19131	ADP00921	495	1B70DS	SHE00784	27	1TB124	SHE00538	21
19132	ADP00939	396	1B74DS	SHE00786	27	1TB136	SHE00541	21
19132	ADP00939	495	1B94DS	SHE00990	27	1TB154	SHE00929	21
19133	ADP00915	396	1E56-444	THT01550	115	1TB160	SHE01061	21
19133	ADP00915	495	1E56W-444	THT01551	115	1TB200	SHE01034	21
19148	CPL00956	396	1F56-301	THT01553	115	1TB250	SHE00115	21
19148	CPL00956	474	1F56-306	THT01554	115	1TB36	SHE00490	21
19157	FTG00865	396	1F56-444	THT01555	115	1TB38	SHE00491	21
19157	FTG00865	474	1F56W-444	THT01556	115	1TB40	SHE00495	21
19163	CPL01029	395	1F56W-911	THT02238	115	1TB44	SHE01054	21
19163	CPL01029	487	1F72-151	THT02304	115	1TB50	SHE01055	21
19208	CPL00928	395	1F78-144	THT02246	115	1TB52	SHE00845	21
19208	CPL00928	498	1F78-151	THT02247	115	1TB58	SHE01058	21
19209	CPL00925	395	1F79-111	THT02300	115	1TB62	SHE01430	21
19209	CPL00925	498	1F80-224	THT02278	116	1TB64	SHE01431	21
19217	CPL00948	395	1F80-240	THT02301	116	1TB68	SHE01059	21
19217	CPL00948	487	1F80-241	THT02214	116	1TB74	SHE01056	21
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195D41	VAL06748	316	1F80-71	THT02188	116	1TB86	SHE01060	21
195D41	VAL06748	317	1F81-261	THT02298	116	1TB90	SHE01057	21
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1B184SK	SHE00550	27	1P1020C24	FLR01901	255	2002AV	GAG01002	237
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1B52DS	SHE00776	27	1P1224C24	FLR01814	255	2006	GAG00993	237
1B54DS	SHE00783	27	1P1230C24	FLR05851	255	201-05FP	REG00445	513
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21060	HSE01175	397	22986	HSE01195	398	26110	HSE01505	480
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3L01-165	CNT01729	117	40FP32AA	CTR01650	72	41143	KIT07497	488
3L01-170	CNT01730	117	40HP32AA	CTR01651	72	4115	MOT06168	276
3L01-180	CNT01731	117	40JG32AA	CTR01652	72	4120-01	CHM00334	47
3L01-190	CNT01732	117	40LG32A*	CTR01653	72	4120-05	CHM00333	47
3L01-200	CNT01733	117	40MG32A*	CTR01654	72	4120-08	CHM00332	47
3L01-230	CNT01734	117	41051	HDL00932	402	41212	MFD00912	405
3L01-250	CNT01735	117	41051	HDL00932	474	41212	MFD00912	498
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3L02-180	CNT01740	116	41053	PST00112	474	41215	MFD00914	498
3L02-200	CNT01742	116	41054	HDL00934	402	41219	MFD00941	405
3RP20 25-1AQ30	3RP20 25-1AQ30	71	41054	HDL00934	474	41219	MFD00941	498
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3RT1064-6AR36	CTR01912	73	41055	RNG01829	474	41220	MFD00956	488
3RT1076-6AF36	CTR02160	73	41059	FTG00970	402	4123	LBL00225	201
3RU1126-1EB0	OLD00532	74	41059	FTG00970	474	41232	MFD01020	405
3RU1926-3AA01	KIT12195	74	4108-08	CHM00328	48	41232	MFD01020	487
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3TX7121-5FF13	RLY02975	70	4109-M9	CHM00331	48	41301	CPL00929	474
4	CPT00076	68	41100	KIT07498	483	41302	CPL01084	401
4	CPT00654	68	41101	HDL00872	408	41302	CPL01084	474
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4	KIT02424	300	41102	HDL00873	408	41305	GKT04051	474
40	CPT00201	68	41102	HDL00873	483	41312	MFD00915	405
40	CPT00240	68	41103	PST00107	403	41312	MFD00915	498
40	CPT00272	69	41103	PST00107	403	41313	MFD00916	405
40	CPT00236	69	41103	PST00107	482	41313	MFD00916	498



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41318	CPL00958	474	4189-07	CHM00373	46	42AF35AGAHV	CTR01142	75
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4133-08	CHM00337	47	42001	MFD01049	406	42BF35AF	CTR01150	71
41337	CPL00959	474	42001	MFD01049	472	42BF35AFAVT	CTR01366	75
41338	CPL00960	474	42004	MFD01050	406	42BF35AG	CTR01151	71
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4134-08	CHM00339	51	42005	MFD01064	472	42CF15AFAIA	CTR01159	75
4134-24	CHM00338	51	42010	MFD00965	406	42CF15AG	CTR01160	71
41343	MFD00974	406	42010	MFD00965	498	42CF15AJ	CTR01158	71
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41710	MFD00931	405	4291-01	CHM00395	47	4304-07	OIL00111	50
41710	MFD00931	498	4291-05	CHM00394	47	4305-01	OIL00115	50
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93089	SEL00874	500	95002	TNK00867	436	98100	ROD00941	509
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93090	SEL00872	500	95005	CYL00197	388	98222	TOL02485	439
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E53	HTR00223	74	ENN-062-Q	BRU00183	467	FHT-087	TOL01708	505
E55	HTR00230	74	ESGB-050	BRU00193	466	FHT-087-Q	TOL01930	505
E56	HTR00238	74	ESGB062	BRU00184	466	FHT-100	TOL01709	505
E57	HTR00234	74	ESGB-075	BRU00194	466	FHT-100-Q	TOL01931	505
E60	HTR00258	74	ESGB-100	BRU00190	466	FNM 15	FUS01397	84
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TRAE+10HCA	VAL06605	319	VLC-14	VAL07641	188	W01082	CPL00888	146
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TRAE+20HCA	VAL06611	319	VLC-6	VAL07637	188	W01092	CPL00890	146
TRAE+20HCA	VAL06610	319	VLC-8	VAL07638	188	W01093	FTG00167	146
TRAE+20HCA	VAL06609	319	VS-4	FTG01102	151	W01094	CPL00891	146
TRAE+30HCA	VAL06613	319	VST-4	FTG01103	151	W01106	ADP00924	144
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