

HERMETIC COMPRESSORS AND SPARES

EMBRACO

A range of domestic/light commercial compressors covering applications using R12 (alternative replacements) and R134A refrigerants. Compressors are supplied with LST electrics as standard. PW/FF compressors can be fitted with a start capacitor for HST applications.



<u>CODE</u>	<u>MODEL</u>	<u>APPLICATION</u>	<u>VOLTS/HZ</u>	<u>DISP CC</u>	<u>NOM HP</u>	<u>LIST £</u>
<u>R12 REFRIGERANT</u>						
040453	EM30NP	LBP	220-240/50	3.01	1/10	81.08
040456	EM40NP	LBP	220-240/50	3.77	1/8	84.29
040459	EM55NP	LBP	220-240/50	4.99	1/6	88.14
040465	PW3.5K9	H/M/LBP	220/50-60	3.47	1/8	78.23
040468	PW4.5K11	H/M/LBP	220/50-60	4.33	1/6	81.65
040474	FF6BK	H/M/LBP	220-240/50	6.23	1/5	91.00
040477	FF7.5BK	H/M/LBP	220-240/50	6.93	1/5	93.51
<u>R134A REFRIGERANT</u>						
040503	EM30HNP	LBP	220-240/50	3.01	1/12	97.88
040506	EM40HNP	LBP	220-240/50	3.77	1/10	100.88
040509	EM50HNP	LBP	220-240/50	4.99	1/8	102.83
040512	EM60HNP	LBP	220-240/50	5.54	1/6	106.66
040568	EM45HHR	M/M/LBP	220-240/50	3.77	1/10	101.25
040569	EM55HHR	HBP	220-240/50	4.60	1/8	104.88
040570	EM65HHR	HBP	220-240/50	5.54	1/6	109.15
040533	PW3.5HK9	HBP	220-240/50-60	3.47	1/8	95.54
040536	PW4.5HK11	HBP	220-240/50-60	4.33	1/6	97.89
040515	FFI6HAK	H/M/LBP	220-240/50-60	6.23	1/5	108.73
040518	FG75HAK	H/M/LBP	220-240/50	7.95	1/4	111.13
040521	FG85HAK	H/M/LBP	220-240/50	9.05	1/4	114.84
040527	FFI10HAK	H/M/LBP	220-240/50-60	9.05	1/4	121.31
040530	FFI12HBK	H/M/LBP	220-240/50	11.15	1/3	137.60
040536/115V	PW4.5HK11	HBP	115/60	4.33	1/6	97.89
040554/115V	FF6HBK	H/M/LBP	115/60	6.23	1/5	108.73
040557/115V	FF7.5HBK	H/M/LBP	115/60	6.93	1/5	111.13
040530/115V	FFI12HBX	H/M/LBP	115/60	11.15	1/3	137.60

LST ELECTRICS KITS

<u>CODE</u>	<u>TO SUIT</u>	<u>LIST £</u>
040232	EM30NP	10.34
040235	EM40NP	10.34
040238	EM55NP	10.34
040241	PW3.5K9	10.34
040244	PW4.5/5.5K11	10.34
040247	PW5.5K14	10.34
040253	FF7.5BK	10.34
040256	FF8.5BK	10.34
040259	FF10BK	10.34
040262	FF12BK	10.34

HST ELECTRICS KITS

<u>CODE</u>	<u>TO SUIT</u>	<u>LIST £</u>
040265	EM30HNP	10.34
040268	EM40HNP	10.34
040271	EM50HNP	10.34
040274	EM60HNP	10.34
040288	FFI6HAK	10.34
040282	FG65HAK	10.34
040283	FG75/85HAK	10.34
040286	FG95/105HAK	10.34
040289	FFI12HBK	10.34
040290	FFI10HAK	10.34

OTHER SPARES

040208	80mfd cap c/w wires&clip	15.73
040210	PW/FF terminal board	8.26
040211	EM/FG terminal board	8.26
040440	EM evaporation tray	3.55
040442	PW/FF evaporation tray	4.86

HERMETIC COMPRESSORS

DANFOSS

A comprehensive range of compressors suitable for use with most refrigerants employed today. Models available up to 20.95cc covering low, medium and high back pressure. 'X' versions supplied with HST electrics.

All models suitable for 220-240V / 1Ph / 50Hz supply.

TL / FR R12-LBP

<u>CODE</u>	<u>MODEL</u>	<u>DISP.CC</u>	<u>NOM HP</u>	<u>EXP.DEVICE</u>	<u>LIST £</u>
041601	TL2.5A	2.61	1/12	C	142.95
041602	TL3A	3.13	1/10	C	144.54
041603	TL4A	3.86	1/8	C	149.73
041604	TL5A	5.08	1/6	C	156.36
041100	FR7.5A	6.93	1/5	C	170.42
041115	FR7.5A O/C	6.93	1/5	C	177.67
041101	FR8.5A	7.95	1/4	C	180.09
041116	FR8.5A O/C	7.95	1/4	C	187.34
041102	FR10A	9.05	1/3	C	185.37
041117	FR10A O/C	9.05	1/3	C	192.63



FR / SC R12-H/M/LBP (SC ALSO R502-LBP)

041127	FR6BX	6.24	1/5	C/V	185.28
041108	FR7.5BX	6.93	1/4	C/V	188.06
041123	FR7.5BX O/C	6.93	1/4	C/V	195.40
041109	FR8.5BX	7.95	1/3	C/V	197.28
041124	FR8.5BX O/C	7.95	1/3	C/V	204.63
041499	FR10BX	9.05	1/3	C/V	203.37
041125	FR10BX O/C	9.05	1/3	C/V	210.63
041635	FR11BX	11.15	1/3	C/V	212.33
041138	SC10BX	10.13	1/3	C/V	245.28
041149	SC10BX O/C	10.13	1/3	C/V	252.45
041139	SC12BX	12.90	3/8	C/V	255.67
041150	SC12BX O/C	12.90	3/8	C/V	262.93
041140	SC15BX	15.30	1/2	C/V	267.58
041151	SC15BX O/C	15.30	1/2	C/V	274.84
041141	SC18BX	17.70	2/3	C/V	279.40
041142	SC21BX	20.92	3/4	C/V	333.49



SC R22 / R502-LBP

041495	SC10CX	10.30	3/8	C/V	273.58
041496	SC12CX	12.90	1/2	C/V	305.10
041497	SC15CX	15.30	2/3	C/V	326.88
041498	SC18CX	17.70	3/4	C/V	369.91

SC R22-LBP/MBP

041651	SC15BMX	15.30	1/2	C/V	326.90
041652	SC18BMX	17.70	1/2	C/V	368.75

SC R22 / R502-HBP

041509	SC10DX	10.30	1/2	C/V	286.66
041510	SC12DX	12.90	2/3	C/V	322.12
041511	SC15DX	15.30	3/4	C/V	414.63



HERMETIC COMPRESSORS

DANFOSS All models suitable for 220-240V / 1Ph / 50Hz supply.

PL R134A-MBP

<u>CODE</u>	<u>MODEL</u>	<u>DISP.CC</u>	<u>NOM HP</u>	<u>EXP.DEVICE</u>	<u>LIST £</u>
043500	PL35F	2.01	1/17	C	142.30
043501	PL50F	2.50	1/14	C	147.52



TL / NL / SC R134A-LBP

043503	TL3F	3.13	1/10	C	142.93
043505	TL4F	3.86	1/8	C	146.60
043507	TL5F	5.08	1/7	C	153.31
043508	TLS5F	5.08	1/6	C	156.27
043509	TLES5F	5.08	1/6	C	168.72
043510	TLS6F	5.70	1/6	C	161.91
043512	TLS7F	6.50	1/5	C	175.43
043514	NL6F	6.13	1/6	C	170.51
043542	NL6FX	6.13	1/6	C/V	182.69
043516	NL7F	7.27	1/5	C	179.01
043543	NL7FX	7.27	1/5	C/V	192.27
043518	NL9F	8.35	1/4	C	184.84
043519	NLE9F	8.35	1/5	C	201.76
043544	NL9FX	8.35	1/4	C/V	198.45
043520	NL11F	11.15	1/3	C	218.15
043545	NL11FX	11.15	1/3	C/V	230.42
043523	SC15F	15.30	2/5	C	242.87
043546	SC15FX	15.30	2/5	C/V	254.87
043547	SC18FX	17.70	1/2	C/V	256.03
043548	SC21FX	20.95	2/3	C/V	263.91



TL / FR / SC R134A-H/M/LBP

043590	TL3G	3.13	1/8	C	144.18
043609	TL3GX	3.13	1/8	C/V	156.54
043591	TL4G	3.86	1/7	C	149.55
043610	TL4GX	3.86	1/7	C/V	161.82
043592	TL5G	5.08	1/5	C	156.36
043611	TL5GX	5.08	1/5	C/V	168.45
043613	FR6G	6.23	1/5	C	163.61
043619	FR6GX	6.23	1/5	C/V	175.70
043614	FR7.5G	6.93	1/4	C	164.51
043620	FR7.5GX	6.93	1/4	C/V	174.99
043615	FR8.5G	7.95	1/3	C	178.75
043621	FR8.5GX	7.95	1/3	C/V	189.22
043616	FR10G	9.05	1/3	C	184.30
043622	FR10GX	9.05	1/3	C/V	194.87
043617	FR11G	11.15	1/3	C	192.00
043623	FR11GX	11.15	1/3	C/V	202.57
043629	SC10G	10.30	1/3	C	230.06
043631	SC10GX	10.30	1/3	C/V	241.97
043630	SC12G	12.90	2/5	C	239.01
043632	SC12GX	12.90	2/5	C/V	249.58
043633	SC15GX	15.30	1/2	C/V	261.40
043634	SC18GX	17.70	2/3	C/V	272.06
043635	SC21GX	20.95	3/4	C/V	328.12



HERMETIC COMPRESSORS AND SPARES

DANFOSS All models suitable for 220-240V / 1Ph / 50Hz supply.

TL / FR / SC R404A-LBP

<u>CODE</u>	<u>MODEL</u>	<u>DISP.CC</u>	<u>NOM HP</u>	<u>EXP.DEVICE</u>	<u>LIST £</u>
043679	TL4CLX	3.86	1/5	C/V	174.99
043680	FR6CLX	6.23	1/3	C/V	201.40
043681	FR8.5CLX	7.95	3/8	C/V	247.25
043682	SC10CLX	10.29	2/5	C/V	255.22
043683	SC12CLX	12.87	1/2	C/V	283.16
043684	SC15CLX	15.28	2/3	C/V	293.28
043685	SC18CLX	17.69	2/3	C/V	363.04
043686	SC21CLX	20.95	3/4	C/V	388.57



TL / FR / SC R404A-HBP (SC ALSO R407C-HBP)

043691	TL4DLX	3.86	1/5	C/V	189.22
043693	FR6DLX	6.23	1/3	C/V	247.25
043697	SC10DLX	10.29	1/2	C/V	253.25
043698	SC12DLX	12.85	2/3	C/V	270.18
043699	SC15DLX	15.28	3/4	C/V	360.18



BD R134A-H/M/LBP 12/24V DC

041514	BD35F	2.00			376.57
041515	BD50F	2.50			397.88

SPARES

<u>CODE</u>	<u>DESCRIPTION</u>	<u>LIST £</u>
041173	103N0011 TL/NL/FR LST device	11.73
041175	103N0015 TL/NL/FR LST device	11.73
041193	103N0002 SC LST device	11.73
041194	117U6000 HST relay	12.62
041195	117U6001 HST relay	12.62
041196	117U6002 HST relay	12.62
041197	117U6003 HST relay	12.62
041200	117U6004 HST relay	12.62
041198	117U6005 HST relay	12.62
041202	117U6007 HST relay	12.62
041204	117U6009 HST relay	12.62
041205	117U6010 HST relay	12.62
041199	117U6011 HST relay	12.62
041209	117U6015 HST relay	12.62
041210	117U6016 HST relay	12.62
041211	117U6019 HST relay	12.62
041212	117U6021 HST relay	12.62
041224	117U5014 60mfd TL start capacitor	30.99
041221	117U5015 80mfd NL/FR start capacitor	30.99
041222	117U5017 80mfd SC start capacitor	30.99
041111	117-7011 SC15D/21B electrical unit	148.48
041114	117-7012 SC18BM/18CL electrical unit	148.48
041112	117-7028 SC15DL/21G electrical unit	148.48
041225	117-8352 terminal box	8.51



HERMETIC COMPRESSORS AND SPARES

NECCHI All models 230V / 1Ph / 50Hz

R502-LBP

<u>CODE</u>	<u>MODEL</u>	<u>DISP.CC</u>	<u>NOM HP</u>	<u>EXP.DEVICE</u>	<u>LIST £</u>
041757	A9RV	9.30	1/3	C/V	148.66
041760	A13RV	13.40	1/2	C/V	183.39
041761	N17RV	17.00	3/4	C/V	210.36
041762	N21RV	21.00	3/4	C/V	221.10

R404A-LBP

<u>CODE</u>	<u>MODEL</u>	<u>DISP.CC</u>	<u>NOM HP</u>	<u>EXP.DEVICE</u>	<u>LIST £</u>
041812	TA13EV	13.00	1/2	C/V	181.31
041813	TN17EV	17.00	3/4	C/V	195.24
041814	TN21EV	21.00	3/4	C/V	207.04
041815	TN23EV	23.20	1	C/V	214.00



SPARES Full range available - details upon request

<u>CODE</u>	<u>DESCRIPTION</u>	<u>LIST £</u>
043400	ES3 electrics module	14.75
043402	ES3.5/4 electrics module	14.75
043403	ES5 electrics module	14.75

TECUMSEH All models 230V / 1Ph / 50Hz

<u>CODE</u>	<u>MODEL</u>	<u>DISP.CC</u>	<u>NOM HP</u>	<u>EXP.DEVICE</u>	<u>REFRIGERANT</u>	<u>LIST £</u>
<u>LBP</u>						
044800	AZ1335YS	4.00	1/8	C	R12/R134A	113.43
044802	AZ1345YS	5.59	1/6	C	R12/R134A	116.42
044804	AE1360YS	6.90	1/4	C	R12/R134A	131.34
044810	AE16LMY	16.10	3/8	C/V	R12/R134A/R502/R404A	232.84
044814	AKL26ZS	26.00	3/4	C/V	R502/R404A	340.30
<u>MBP</u>						
044820	AE6MHG	5.51	1/5	C/V	R22	158.21
044822	AE8MHG	7.55	1/4	C/V	R22	158.21
044824	AE9MG	8.88	1/3	C/V	R22	170.15
044826	AE12MG	12.01	3/8	C/V	R22	200.00
044828	AE14MG	14.14	1/2	C/V	R22	205.97
044830	AKM19ZS	18.80	3/4	C/V	R22	310.48
044832	AKM26ZS	26.00	1	C/V	R22/R404A	319.40
<u>H/MBP</u>						
044840	AZ0411YS	5.59	1/5	C	R12/R134A	119.40
044844	AE4430YS	8.85	1/4	C/V	R12/R134A	152.24
044846	AE4440YS	12.04	1/3	C/V	R12/R134A	158.21
044848	AE4448YS	14.17	3/8	C/V	R12/R134A	173.13
044852	AKA4476YXC	22.60	5/8	C/V	R134A	427.16



HERMETIC COMPRESSORS

ACC

'V' version supplied with a suction valve; 'T' version with tube connection. All models 230V / 1Ph / 50Hz.

CODE MODEL DISP.CC NOM HP EXP.DEVICE LIST £

R134A-LBP

045154	GD36AA	3.6	1/10	C	154.75
045156	GD40AA	4.0	1/8	C	158.00
045158	GL45AA	4.5	1/8	C	175.39
045160	GL50AA	5.1	1/6	C	174.00
045162	GL60AA	6.0	1/6	C	176.22
045164	GL70AA	7.0	1/5	C	184.58
045166	GL80AA	8.1	1/5	C	192.85
045168	GL90AA	9.1	1/4	C	193.12
045170	GL99AA	9.9	1/4	C	221.82
045172	GP12FB	12.0	1/3	C/V	219.73
045174	GP14FB	14.0	3/8	C/V	230.55
045176	GP16FB	16.0	1/2	C/V	278.58
045178	GX18FB	18.0	5/8	C/V	350.25
045180	GX21FB	21.0	2/3	C/V	358.46

R404A-LBP

045002	ML60FB	5.5	1/6	C/V	190.67
045003	ML80FB	8.1	1/4	C/V	197.33
045004	ML90FB	8.8	1/3	C/V	205.67
045006	MP12FB	12.0	3/8	C/V	219.24
045008	MP14FB	14.0	1/2	C/V	229.40
045009	MX16FB	16.0	1/2	C/V	350.25
045011	MX18FB	18.0	5/8	C/V	368.72
045015	MX21FB	21.0	2/3	C/V	377.94
045018	MR22FB-V	21.0	2/3	C/V	430.90
045019	MX23FB	23.2	2/3	C/V	383.04
045020	MS26FB-T	26.0	3/4	C/V	435.63
045022	MS26FB-V	26.0	3/4	C/V	449.81
045026	MS30FB-V	30.0	7/8	C/V	469.01
045028	MS34FB-T	34.0	1	C/V	475.75
045030	MS34FB-V	34.0	1	C/V	491.21

R134A-H/MBP

045068	GD40MB-D	4.0	1/8	C/V	158.81
045070	GL45PB	4.5	1/4	C	146.19
045072	GL60PB	5.7	1/5	C	162.91
045073	GL60TB	5.7	1/5	C/V	172.85
045074	GL80PB	7.6	1/4	C	168.96
045076	GL80TB	7.6	1/4	C/V	184.36
045078	GL90PB	8.8	1/4	C	174.99
045080	GL90TB	8.8	1/4	C/V	191.93
045082	GP12PB	12.0	3/8	C	219.40
045084	GP12TB	12.0	3/8	C/V	219.40
045086	GP14TB	14.0	3/8	C/V	221.84
045088	GP16TB	16.0	3/8	C/V	233.97
045089	GX18TB-T	18.0	5/8	C/V	317.49
045091	GX21TB-T	21.0	5/8	C/V	335.06
045099	GX23TB-T	23.0	2/3	C/V	366.64
045093	GS26TB-T	26.0	3/4	C/V	434.12
045094	GS26TB-V	26.0	3/4	C/V	449.99
045096	GS30TB-V	30.0	7/8	C/V	524.10
045097	GS34TB-T	34.0	1	C/V	489.01
045098	GS34TB-V	34.0	1	C/V	506.79



HERMETIC COMPRESSORS

ACC

'V' version supplied with a suction valve; 'T' version with tube connection. All models 230V / 1Ph / 50Hz.

CODE MODEL DISP.CC NOM HP EXP.DEVICE LIST £

R22-H/MBP

045040	L45TN	4.5	1/5	C/V	167.86
045042	L57TN	5.7	1/4	C/V	175.52
045044	L76TN	7.6	3/8	C/V	291.79
045046	L88TN	8.8	3/8	C/V	224.94
045048	P12TN	12.0	1/2	C/V	266.32
045050	R18TN-V	18.1	3/4	C/V	389.17
045051	X18TN	18.4	3/4	C/V	383.50
045052	R18TN-T	18.1	3/4	C/V	372.79
045054	S22TN-V	21.8	7/8	C/V	411.52
045056	S22TN-T	21.8	7/8	C/V	408.68
045058	S26TN-V	26.0	1	C/V	434.98
045060	S26TN-T	26.0	1	C/V	432.11

R404A / R407C-H/MBP

045108	ML45TB	4.5	1/5	C/V	184.33
045110	ML60TB	5.7	1/4	C/V	189.15
045112	ML80TB	7.6	3/8	C/V	194.00
045114	ML90TB	8.8	3/8	C/V	196.55
045116	MP12TB	12.0	1/2	C/V	270.70
045118	MP14TB	14.0	5/8	C/V	285.13
045119	MX16TB	16.0	5/8	C/V	359.39
045121	MX18TB-T	18.0	3/4	C/V	362.55
045125	MX21TB-T	21.0	7/8	C/V	403.93
045130	MS26TB-T	26.0	1	C/V	413.78
045132	MS26TB-V	26.0	1	C/V	432.94
045134	MS34TB-T	34.0	1-5/8	C/V	428.88
045136	MS34TB-V	34.0	1-5/8	C/V	448.07

R22 AIR CONDITIONING

045140	S19UN-CSR	18.6	7/8	C/V	361.13
045142	S22UN-CSR	21.8	1	C/V	367.03
045144	S26UN-CSR	26.2	1-1/4	C/V	396.76
045146	S33UN-CSR	32.7	1-1/2	C/V	420.71
045148	S34UN-CSR	34.3	1-5/8	C/V	430.42



A full range of spares is available on request.

HERMETIC COMPRESSORS

ASPERA All models suitable for 220-240V / 1Ph / 50Hz supply.

CODE MODEL DISP.CC NOM HP EXP.DEVICE LIST £

R134A-LBP

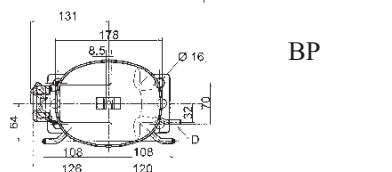
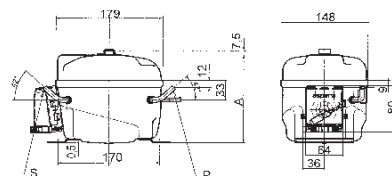
045251	EMT22HLP	3.00	1/12	C	148.70
045253	EMT36HLP	3.97	1/8	C	159.76
045255	EMT43HLP	4.90	1/7	C	167.13
045258	NB1112Z	6.26	1/6	C	193.76
045260	NB1116Z	8.40	1/5	C	196.13
045262	NE1121Z	9.27	1/4	C	235.62
045264	NE1130Z	12.12	1/3	C	245.73

R404A-LBP

045268	NB2117GK	4.52	1/4	C/V	217.52
045270	NE2125GK	8.78	1/3	C/V	217.37
045272	NE2134GK	12.12	1/2	C/V	226.92
045274	T2155GK	14.50	5/8	C/V	360.16
045276	T2168GK	17.40	3/4	C/V	373.70
045278	T2178GK	20.40	3/4	C/V	393.99
045280	T2180GK	22.40	3/4	C/V	414.17
045282	NJ2192GK	26.20	1	C/V	477.21
045284	NJ2212GK	34.34	1-1/4	C/V	486.24

R22-LBP

045290	T2140E	14.50	1/2	C/V	344.96
045292	T2155E	17.40	5/8	C/V	387.62
045294	T2168E	20.40	3/4	C/V	411.12
045296	J2190E	27.12	1	C/V	448.91



HERMETIC COMPRESSORS

All models suitable for
220-240V / 1Ph / 50Hz supply
unless otherwise stated.



<u>CODE</u>	<u>MODEL</u>	<u>DISP. CC</u>	<u>NOM HP</u>	<u>EXP.DEVICE</u>	<u>MOTOR TYPE</u>	<u>LIST £</u>
<u>R134A-LBP</u>						
044100	AZ1330Y	3.60	1/10	C	PTC	131.37
044101	AZ1335Y	4.00	1/8	C	PTC	135.59
044102	AZ1339Y	5.00	1/7	C	PTC	137.49
044103	AZ1348Y	5.60	1/6	C	PTC	144.04
044106	AEZ1365Y	8.90	1/5	C	PTC	182.99
044108	AEZ2380Y	9.40	1/4	C/V	CSIR	197.07
044110	CAE2410Y	12.05	1/3	C/V	CSIR	224.74
044111	AE1412Y	14.15	3/8	C	RSIR	212.55
044112	CAE2412Y	14.15	3/8	C/V	CSIR	233.18
044113	CAE2414Y	16.00	1/2	C/V	CSIR	234.68
<u>R404A-LBP</u>						
044321	AEZ2411Z	7.60	1/3	C/V	CSIR	203.59
044322	AEZ2415Z	8.10	1/3	C/V	CSIR	219.11
044325	AE1417Z	11.30	1/2	C	RSIR	229.90
044326	CAE2417Z	11.30	1/2	C/V	CSR	295.11
044351	CAE2424Z	15.00	1/2	C/V	CSR	324.68
044327	CAJ2428Z	15.20	1/2	C/V	CSIR	392.70
044327/115V	CAJ2428Z	15.20	1/2	C/V	CSIR/115V	392.70
044329	CAJ2432Z VALVE	18.30	5/8	C/V	CSR	473.89
044353	CAJ2432Z TUBES	18.30	5/8	C/V	CSR	473.89
044330	CAJ2446Z	26.15	3/4	C/V	CSR	539.57
044332	CAJ2464Z VALVE	34.45	1-1/2	C/V	CSR	571.48
044355	CAJ2464Z TUBES	34.45	1-1/2	C/V	CSR	571.48
044333	TAJ2464Z	34.45	1-1/2	C/V	3Ph	639.03
044339	FH2480Z	53.20	2	C/V	CSR	769.94
044340	TFH2480Z	53.20	2	C/V	3Ph	743.67
044341	FH2511Z	74.25	2-1/2	C/V	CSR	790.11
044342	TFH2511Z	74.25	2-1/2	C/V	3Ph	764.78
044345	TAG2516Z	112.50	4	C/V	3Ph	1062.24
<u>R134A-HBP</u>						
044208	AZ4414Y	4.00	1/6	C/V	CSIR	151.08
044209	AZ3419Y	5.60	1/5	C	RSIR	142.16
044210	AZ4419Y	5.60	1/5	C/V	CSIR	155.30
044211	AEZ3425Y	7.55	1/5	C	RSIR	173.59
044212	AEZ4425Y	7.55	1/5	C/V	CSIR	188.14
044213	AEZ3430Y	8.85	1/4	C	RSIR	188.62
044214	AEZ4430Y	8.85	1/4	C/V	CSIR	201.29
044215	AE3440Y	12.05	1/3	C	RSIR	215.82
044216	CAE4440Y	12.05	1/3	C/V	CSIR	229.90
044217	CAE4448Y	14.15	3/8	C/V	CSIR	249.60
044218	CAE4456Y	16.00	3/8	C/V	CSIR	268.37
044219	CAJ4452Y	15.20	3/8	C/V	CSIR	391.30
044222	CAJ4461Y	18.30	1/2	C/V	CSIR	429.77
044226	CAJ4492Y VALVE	25.95	3/4	C/V	CSIR	507.19
044227	CAJ4492Y TUBES	25.95	3/4	C/V	CSIR	507.19
044230	CAJ4511Y	32.70	1	C/V	CSR	572.41
044231	TAJ4511Y	32.70	1	C/V	3Ph	585.08
044233	FH4518Y	53.20	1-1/2	C/V	CSR	696.28
044234	TFH4518Y	53.20	1-1/2	C/V	3Ph	682.19
044235	FH4525Y	74.25	2	C/V	CSR	752.11
044236	TFH4525Y	74.25	2	C/V	3Ph	730.50

HERMETIC COMPRESSORS



All models suitable for 220-240V / 1Ph / 50Hz or 400V / 3Ph / 50Hz supply as shown.

<u>CODE</u>	<u>MODEL</u>	<u>DISP. CC</u>	<u>NOM HP</u>	<u>EXP.DEVICE</u>	<u>MOTOR TYPE</u>	<u>LIST £</u>
<u>R12-HBP</u>						
042033	CAE59ZF9	7.55	1/5	C/V	CSIR	182.32
042034	AE41ZF11	8.85	1/4	C	RSIR	180.41
042035	CAE41ZF11	8.85	1/4	C/V	CSIR	190.98
042036	CAE4440A	12.05	3/8	C/V	CSIR	229.57
042038	CAJ4452A	15.20	3/8	C/V	CSIR	390.67
042039	CAJ4461A	18.30	1/2	C/V	CSIR	428.13
042040	CAJ4492A	25.95	3/4	C/V	CSIR	500.31
042041	CAJ4511A	32.70	1	C/V	CSR	577.89
042042	TAJ4511A	32.70	1	C/V	3Ph	591.20
042043	TAH4518A	53.20	1-1/2	C/V	3Ph	734.00
042044	CAH4518A	53.20	1-1/2	C/V	CSR	749.83
042045	TAH4525A	74.25	2	C/V	3Ph	788.71
042046	CAH4525A	74.25	2	C/V	CSR	813.35
<u>R404A-HBP</u>						
044907	AEZ4425Z	4.50	1/5	C/V	CSIR	190.49
044909	AEZ4430Z	5.70	1/4	C/V	CSIR	200.34
044912	AEZ9440Z	7.55	1/3	C/V	CSIR	274.01
044915	CAE9450Z	9.40	3/7	C/V	CSR	303.11
044916	CAE9460Z	11.30	1/2	C/V	CSR	309.20
044917	CAE9470Z	13.30	1/2	C/V	CSR	314.83
044918	CAJ9480Z	15.20	5/8	C/V	CSR	528.31
044920	CAJ9510Z	18.30	1	C/V	CSR	553.18
044922	CAJ9513Z	24.20	1-1/8	C/V	CSR	580.38
044924	CAJ4517Z	25.95	1-1/4	C/V	CSR	596.81
044925	TAJ4517Z	25.95	1-1/4	C/V	3Ph	609.48
044926	CAJ4519Z VALVE	34.45	1-1/2	C/V	CSR	633.41
044960	CAJ4519Z TUBES	34.45	1-1/2	C/V	CSR	633.41
044927	TAJ4519Z	34.45	1-1/2	C/V	3Ph	647.00
044928	FH4522Z	39.95	1-3/4	C/V	CSR	728.19
044929	TFH4522Z	39.95	1-3/4	C/V	3Ph	677.21
044930	FH4524Z	43.50	2	C/V	CSR	751.64
044931	TFH4524Z	43.50	2	C/V	3Ph	694.40
044932	FH4531Z	56.65	2-1/2	C/V	CSR	808.88
044933	TFH4531Z	56.65	2-1/2	C/V	3Ph	730.52
<u>R22-HBP</u>						
042954	AEZ4425E	4.50	1/5	C/V	CSIR	206.43
042955	AEZ4430E	5.70	1/4	C/V	CSIR	224.00
042957	AEZ9440T	7.55	1/3	C/V	CSR	266.49
042959	CAE9450T	9.50	1/2	C/V	CSR	295.59
042960	CAE9460T	11.30	1/2	C/V	CSR	301.69
042962	CAJ9480T	15.20	5/8	C/V	CSR	511.89
042964	CAJ9510T	18.30	3/4	C/V	CSR	537.22
042966	CAJ9513T	24.20	1	C/V	CSR	536.96
042968	CAJ4517E	25.95	1-1/4	C/V	CSR	592.93
042969	CAJ4519T	34.45	1-1/2	C/V	CSR	611.03
042970	TAJ4519T	34.45	1-1/2	C/V	3Ph	630.11
042971	FH4522F	39.95	1-3/4	C/V	CSR	699.09
042972	TFH4522F	39.95	1-3/4	C/V	3Ph	711.86
042973	FH4524F	43.50	2	C/V	CSR	722.56
042974	TFH4524F	43.50	2	C/V	3Ph	676.18
042975	FH4531F	56.65	2-1/2	C/V	CSR	779.80
042976	TFH4531F	56.65	2-1/2	C/V	3Ph	723.65

HERMETIC COMPRESSORS

All models suitable for 220-240V / 1Ph / 50Hz or 400V / 3Ph / 50Hz supply as shown.

R407C-AIR CONDITIONING

MODEL	DISP. CC	CODE (CSR)	LIST £
AJ5512C	21.75	043008	452.09
AJ5518C	32.70	043015	511.39

R22-AIR CONDITIONING

MODEL	DISP. CC	CODE (PSC)	LIST £	CODE (CSR)	LIST £	CODE (3Phase)	LIST £
AE5465E	12.05	042050	318.93	042850	345.78		
AE5470E	13.25	042051	331.22	042851	358.09		
AJ5510F	18.60	042052	443.24	042852	446.95		
AJ5512E	21.75	042053	426.15	042853	452.09		
AJ5513E	24.20	042054	435.24	042854	462.16		
AJ5515E	25.95	042055	457.12	042855	483.98		
TAJ5515E	25.95					042056	507.48
AJ5518E	32.70	042057	484.54	042857	511.39		
AJ5519E	34.45	042058	511.34	042858	538.26		
TAJ5519E	34.45					042059	536.58
FH5522F	39.95			042890	724.52		
FH5524F	43.90	042060	690.44	042891	722.88		
TFH5524F	43.90					042061	719.30
FH5528F	49.00			042898	730.59		
AH5527E	49.10	042062	689.61	042892	733.26		
TAH5527E	49.10					042063	730.34
FH5532F	53.08			042894	750.72		
FH5531E	56.65	042064	757.58	042893	790.02		
TAH5531E	56.65					042065	738.51
FH5538F	67.50	042066	777.71	042895	824.84		
FH5540E	74.25			042900	879.92		
TFH5540E	74.25					042067	834.68
FH5542F	74.15	042896	843.81	042897	879.92		
TFH5542F	74.15					042899	803.99
TAG5546E	90.20					042068	1011.60
TAG5553E	100.70					042069	1061.94
TAG5561E	112.50					042070	1092.15
TAG5568E	124.40					042071	1196.24
TAG5573E	134.80					042072	1301.40

PSC VERSIONS SUPPLIED WITH RUN CAPACITOR (LST)

CSR VERSIONS ARE SUPPLIED WITH RELAY, START AND RUN CAPACITORS (HST)

R22 ROTARY

CODE	MODEL	DISP. CC	LIST £
043870	RK5480E-PSC	11.40	455.63
043872	RK5490E-PSC	12.90	457.54
043874	RK5510E-PSC	14.60	459.98
043876	RK5512E-PSC	16.30	462.50
043878	RK5513E-PSC	18.10	473.06
043880	RK5515E-PSC	21.40	496.80
043882	RK5518E-PSC	24.40	526.69

R407C ROTARY

043889	RK5512C-PSC	16.30	462.50
043891	RK5515C-PSC	21.40	496.80

SPARES Full range available - details upon request.



HERMETIC COMPRESSORS

MANEUROP All models suitable for 220-240V/1Ph/50Hz or 415V/3Ph/50Hz as shown. 1Ph electrics not included.

<u>CODE</u>	<u>MODEL</u>	<u>DISP. CC</u>	<u>NOM HP</u>	<u>SUPPLY</u>	<u>LIST £</u>
<u>R12 / R22 / R502-H/M/LBP</u>					
042392	MT18/5 ER(VE)	30	1-1/2	1 Ph	862.99
042396	MT18/4 ER(VE)	30	1-1/2	3 Ph	862.99
042400	MT22/5 ER(VE)	38	1-3/4	1 Ph	878.48
042404	MT22/4 ER(VE)	38	1-3/4	3 Ph	869.19
042408	MT28/5 ER(VE)	48	2-1/4	1 Ph	950.12
042412	MT28/4 ER(VE)	48	2-1/4	3 Ph	929.33
042416	MT32/5 ER(VE)	54	2-3/4	1 Ph	1000.96
042420	MT32/4 ER(VE)	54	2-3/4	3 Ph	1010.21
042423	MT36/5 ER(VE)	61	3	1 Ph	1264.55
042424	MT36/4 ER(VE)	61	3	3 Ph	1155.87
042428	MT40/4 ER(VE)	68	3-1/2	3 Ph	1306.15
042432	MT44/4 ER(VE)	76	3-3/4	3 Ph	1572.01
042436	MT50/4 ER(VE)	86	4	3 Ph	1643.64
042440	MT56/4 ER(VE)	96	4-1/2	3 Ph	1628.16
042444	MT64/4 ER(VE)	108	5	3 Ph	1780.04
042448	MT72/4 ER(VE)	121	6	3 Ph	2080.58
042452	MT80/4 ER(VE)	136	6-1/2	3 Ph	2226.22
042456	MT100/4 ER(VE)	171	8-1/2	3 Ph	3204.06
042460	MT125/4 ER(VE)	215	10	3 Ph	3821.30
042462	MT144/4 ER(VE)	242	11-1/2	3 Ph	4105.64
042464	MT160/4 ER(VE)	272	13	3 Ph	4392.31



Supplied with oil sight glass and equalisation connections as standard.

R134A / R404A / R507 / R407C-H/M/LBP

042590	MTZ18/5 ER(VE)	30	1-1/2	1 Ph	862.99
042592	MTZ18/4 ER(VE)	30	1-1/2	3 Ph	862.99
042594	MTZ22/5 ER(VE)	38	1-3/4	1 Ph	878.49
042596	MTZ22/4 ER(VE)	38	1-3/4	3 Ph	869.19
042598	MTZ28/5 ER(VE)	48	2-1/4	1 Ph	950.12
042600	MTZ28/4 ER(VE)	48	2-1/4	3 Ph	929.33
042602	MTZ32/5 ER(VE)	54	2-3/4	1 Ph	1000.96
042604	MTZ32/4 ER(VE)	54	2-3/4	3 Ph	1010.21
042606	MTZ36/5 ER(VE)	61	3	1 Ph	1264.55
042608	MTZ36/4 ER(VE)	61	3	3 Ph	1155.87
042610	MTZ40/4 ER(VE)	68	3-1/2	3 Ph	1306.15
042612	MTZ44/4 ER(VE)	76	3-3/4	3 Ph	1572.01
042614	MTZ50/4 ER(VE)	86	4	3 Ph	1643.64
042616	MTZ56/4 ER(VE)	96	4-1/2	3 Ph	1628.16
042618	MTZ64/4 ER(VE)	108	5	3 Ph	1780.04
042620	MTZ72/4 ER(VE)	121	6	3 Ph	2080.58
042622	MTZ80/4 ER(VE)	136	6-1/2	3 Ph	2226.22
042624	MTZ100/4 ER(VE)	171	8-1/2	3 Ph	3204.06
042626	MTZ125/4 ER(VE)	215	10	3 Ph	3821.30
042628	MTZ144/4 ER(VE)	242	11-1/2	3 Ph	4105.64
042630	MTZ160/4 ER(VE)	272	13	3 Ph	4392.31

HERMETIC COMPRESSORS AND SPARES

MANEUROP

All models suitable for 220/240V/1Ph/50Hz or 415V/3Ph/50Hz as shown. 1Ph electrics not included.

R404A/R507 LBP

<u>CODE</u>	<u>MODEL</u>	<u>DISP. CC</u>	<u>NOM HP</u>	<u>SUPPLY</u>	<u>LIST £</u>
042360	NTZ048.5LRI	48	1-3/4	1 Ph	798.24
042362	NTZ048.4LRI	48	1-3/4	3 Ph	798.24
042364	NTZ068.5LRI	68	2-1/4	1 Ph	948.60
042366	NTZ068.4LRI	68	2-1/4	3 Ph	948.60
042368	NTZ096.4LRI	96	3-1/2	3 Ph	1176.33
042370	NTZ108.4LRI	108	3-3/4	3 Ph	1237.00
042372	NTZ136.4LRI	136	4	3 Ph	1564.87
042374	NTZ215.4LRI	215	7	3 Ph	2872.25
042376	NTZ271.4LRI	272	8-1/2	3 Ph	3113.27



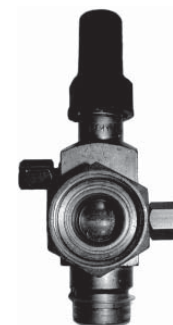
Supplied with oil sight glass and equalisation connections as standard

ELECTRICAL ACCESSORIES

<u>CODE</u>	<u>DESCRIPTION</u>	<u>LIST £</u>
042540	Single phase CSR2 (HST) electrics kit for MT(Z)18/5 to 28/5; LT(Z)22/5 to 28/5	106.19
042541	Single phase CSR2 (HST) electrics kit for MT(Z)32/5 to 36/5	108.60
042542	Single phase CSR2 (HST) pre-wired box for MT(Z)18/5 to 22/5; MT(Z)28/5; LT(Z)22/5 to 28/5	274.21
042543	Single phase CSR2 (HST) pre-wired box for MT(Z)32/5 to 36/5	274.21

ROTOLOCK VALVES AND 90° CONNECTORS

<u>CODE</u>	<u>DESCRIPTION</u>	<u>LIST £</u>
042496	3/8" x 1" discharge valve for MT(Z)18/22/28	32.58
042498	1/2" x 1" discharge valve for MT(Z)32/36/40; LT22/28	35.16
042500	3/4" x 1-1/4" discharge valve for MT(Z)44/50/56/64/72/80; LT40 to 100	53.64
042502	7/8" x 1-1/4" discharge valve for MT(Z)100/125/160	54.96
042506	1/2" x 1" suction valve for MT(Z)18/22/28	35.16
042508	5/8" x 1-1/4" suction valve for MT(Z)32/36/40; LT22/28	35.16
042510	7/8" x 1-3/4" suction valve for MT(Z)44/50/56/64/72/80; LT40/44	63.57
042512	1-1/8" x 1-3/4" suction valve for MT(Z)80/100/125/160; LT50/88/100	81.27
042516	3/8" x 1" 90° discharge connector for MT(Z)18/22/28	24.23
042518	1/2" x 1" 90° discharge connector for MT(Z)32/36/40; LT22/28	34.14
042520	3/4" x 1-1/4" 90° discharge connector for MT(Z)44 to 160; LT40 to 100	28.39
042524	1/2" x 1" 90° suction connector for MT(Z)18/22/28	26.03
042526	5/8" x 1-1/4" 90° suction connector for MT(Z)32/36/40; LT22/28	27.64
042528	7/8" x 1-3/4" 90° suction connector for MT(Z)44/50/56/64/72; LT40/44	35.44
042530	1-1/8" x 1-3/4" 90° suction connector for MT(Z)80/100/125/160; LT50/88/100	39.38



MANEUROP OIL - ESSENTIAL FOR SYSTEM TOP-UP

042534	160P white oil 2 litre R12/22/502	38.04
042535	160P white oil 5 litre R12/22/502	72.67
042536	160PZ ester oil 1 litre R134A/404A/507/407C (MTZ)	60.42
042537	160PZ ester oil 2 litre R134A/404A/507/407C (MTZ)	107.34
042538	160SZ ester oil 1 litre R134A/R407C (LTZ + scroll)	62.78
042539	160SZ ester oil 2 litre R134A/R407C (LTZ + scroll)	111.21



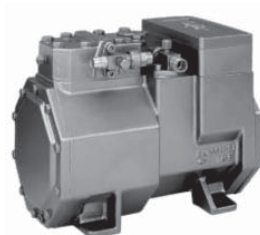
CRANKCASE HEATERS - ESSENTIAL FOR ALL MODELS

042480	30 Watt PTC 200-600 Volt heater	26.82
042484	Heat transfer paste	4.79

SEMI-HERMETIC COMPRESSORS

BITZER

SEMI-HERMETIC



3 Ph versions supplied as standard. *1 Ph versions available.

Octagon series - the new compact models with displacement from 4 to 32.50 m³/hr (50Hz).

- **Universal**
 - ◆ R134A, R404A, R507, R407C and R22
 - ◆ **one** compressor version for all refrigerants
 - for air conditioning or
 - for medium and low temperature
 - full range of accessories available

<u>CODE</u>	<u>MODEL</u>	<u>NOM HP</u>	<u>DISP M³/HR @1450rpm</u>	<u>LIST £</u>
041261	2KC-05.2Y	1/2	4.06	1373.10
041263	2JC-07.2Y	3/4	5.21	1382.21
041265	2HC-1.2Y*	1	6.51	1397.03
041267	2HC-2.2Y*	1-1/2	6.51	1411.84
041269	2GC-2.2Y*	1-1/2	7.58	1422.10
041271	2FC-2.2Y*	1-1/2	9.54	1525.79
041273	2FC-3.2Y	1-4/5	9.54	1599.86
041275	2EC-2.2Y	2	11.36	1998.68
041277	2EC-3.2Y	3	11.36	2120.61
041279	2DC-2.2Y	2	13.42	1998.68
041281	2DC-3.2Y	3	13.42	2228.86
041283	2CC-3.2Y	3	16.24	2120.61
041284	2CC-4.2Y	4	16.24	2310.91
041285	4FC-3.2Y	3	18.05	2304.07
041286	4FC-5.2Y	5-1/2	18.05	2905.73
041287	4EC-4.2Y	4	22.72	2423.72
041288	4EC-6.2Y	5-1/2	22.72	3110.84
041289	4DC-5.2Y	5-1/2	26.84	3287.46
041290	4DC-7.2Y	7-1/2	26.84	3450.41
041291	4CC-6.2Y	5-1/2	32.48	4064.60



All models 3 Ph electrical supply.

4 & 6 cylinder series - the leading technology with displacement from 34.7 to 151.60 m³/hr (50Hz).

- **Universal**
 - ◆ R134A, R404A, R507, R407C and R22
 - ◆ **one** compressor version for all refrigerants
 - for air conditioning or
 - for medium and low temperature
 - full range of accessories available

<u>CODE</u>	<u>MODEL</u>	<u>NOM HP</u>	<u>DISP M³/HR @1450rpm</u>	<u>LIST £</u>
041302	4VCS-6.2Y	5-1/2	34.7	4070.29
041303	4VCS-10.2Y	10	34.7	4270.85
041304	4TCS-8.2Y	7-1/2	41.3	4277.68
041305	4TCS-12.2Y	12-1/2	41.3	4396.19
041306	4PCS-10.2Y	10	48.5	4461.14
041307	4PCS-15.2Y	15	48.5	4732.34
041308	4NCS-12.2Y	12-1/2	56.2	5676.99
041309	4NCS-20.2Y	20	56.2	5999.47
041310	4J-13.2Y	13	63.5	6241.04
041311	4J-22.2Y	22	63.5	6631.89
041312	4H-15.2Y	15	73.7	6368.67
041313	4H-25.2Y	25	73.7	7202.78
041314	4G-20.2Y	20	84.6	7211.90
041315	4G-30.2Y	30	84.6	7975.36
041316	6J-22.2Y	22	95.3	8709.20
041317	6J-33.2Y	33	95.3	9951.26
041318	6H-25.2Y	25	110.5	8966.73
041319	6H-35.2Y	35	110.5	10366.03
041320	6G-30.2Y	30	126.8	10722.70
041321	6G-40.2Y	40	126.8	12038.82
041322	6F-40.2Y	40	151.6	13267.20
041323	6F-50.2Y	50	151.6	13615.89

SEMI-HERMETIC COMPRESSORS

FRASCOLD

A modern high performance range of semi-hermetic compressors suitable for refrigeration and air conditioning systems.

The range consists of 60 models in 8 series with displacements from 3.95 m³/hr to 205.80 m³/hr and refrigeration capacities from 200W to 280,000W.

Supplied with ester oil as standard, compressors with a mineral oil charge are available to order.

All single phase compressors are supplied with electrics and three phase models with a thermistor module.

<u>CODE</u>	<u>MODEL</u>	<u>NOM HP</u>	<u>DISP M³/HR</u>	<u>SUPPLY</u>	<u>LIST £</u>
041830	A 0.5-4-Y	1/2	3.95	1 Ph	807.76
041831	A 0.5-4-Y	1/2	3.95	3 Ph*	636.72
041832	A 0.5-5-Y	1/2	4.93	1 Ph	807.76
041833	A 0.5-5-Y	1/2	4.93	3 Ph*	636.72
041834	A 0.7-5-Y	3/4	4.93	1 Ph	812.24
041835	A 0.7-5-Y	3/4	4.93	3 Ph*	642.09
041836	A 0.7-6-Y	3/4	5.47	1 Ph	812.24
041837	A 0.7-6-Y	3/4	5.47	3 Ph*	642.09
041838	A 1.0-6-Y	1	5.47	1 Ph	822.09
041839	A 1.0-6-Y	1	5.47	3 Ph*	651.94
041840	A 1.0-7-Y	1	6.91	1 Ph	822.09
041841	A 1.0-7-Y	1	6.91	3 Ph*	651.94
041842	A 1.5-7-Y	1-1/2	6.91	1 Ph	872.24
041843	A 1.5-7-Y	1-1/2	6.91	3 Ph*	702.09
041844	A 1.5-8-Y	1-1/2	7.65	1 Ph	872.24
041845	A 1.5-8-Y	1-1/2	7.65	3 Ph*	696.72
041846	B 1.5-9-Y	1-1/2	8.96	1 Ph	882.99
041847	B 1.5-9-Y	1-1/2	8.96	3 Ph*	711.94
041848	B 1.5-10-Y	1-1/2	9.84	1 Ph	882.99
041849	B 1.5-10-Y	1-1/2	9.84	3 Ph*	717.31
041850	B 2-10-Y	2	9.84	1 Ph	972.54
041851	B 2-10-Y	2	9.84	3 Ph*	802.39
041852	D 2-11-Y	2	11.26	1 Ph	1022.69
041853	D 2-11-Y	2	11.26	3 Ph*	862.39
041854	D 2-13-Y	2	13.84	3 Ph*	857.91
041855	D 3-13-Y	3	13.84	3 Ph*	912.54
041856	D 2-15-Y	2	15.36	3 Ph*	857.91
041857	D 3-15-Y	3	15.36	3 Ph*	912.54
041858	D 3-16-Y	3	16.39	3 Ph*	912.54
041859	D 4-16-Y	4	16.39	3 Ph*	1133.73
041860	F 4-16-Y	4	16.39	3 Ph*	1344.18
041861	D 3-18-Y	3	17.93	3 Ph*	933.13
041862	D 4-18-Y	4	17.93	3 Ph*	1153.43
041863	D 3-19-Y	3	19.12	3 Ph*	933.13
041864	F 4-19-Y	4	19.12	3 Ph*	1354.03
041865	F 5-19-Y	5	19.12	3 Ph*	1414.03
041866	F 4-21-Y	4	20.71	3 Ph*	1394.33
041867	F 5-21-Y	5	20.71	3 Ph*	1448.96
041868	F 4-24-Y	4	23.60	3 Ph*	1394.33
041869	F 5-24-Y	5	23.60	3 Ph*	1454.33
041870	F 5-25-Y	5	25.21	3 Ph*	1479.40
041871	F 7-25-Y	7-1/2	25.21	3 Ph*	1539.47
041872	F 5-28-Y	5	27.31	3 Ph*	1519.18
041873	F 7-28-Y	7-1/2	27.31	3 Ph*	1584.67

<u>CODE</u>	<u>MODEL</u>	<u>NOM HP</u>	<u>DISP M³/HR</u>	<u>SUPPLY</u>	<u>LIST £</u>
041874	S 5-33-Y	5-1/2	32.80	3 Ph**	1790.15
041875	S 7-33-Y	7-1/2	32.80	3 Ph**	1855.52
041876	S 7-39-Y	7-1/2	38.25	3 Ph**	1875.22
041877	S 10-39-Y	10	38.25	3 Ph**	1905.67
041878	S 10-51-Y	10	50.43	3 Ph**	2056.12
041879	S 15-51-Y	15	50.43	3 Ph**	2061.49
041880	S 15-56-Y	15	56.00	3 Ph**	2206.57
041881	S 20-56-Y	20	56.00	3 Ph**	2331.94
041882	V 15-59-Y	15	58.48	3 Ph**	3280.30
041883	V 20-59-Y	20	58.48	3 Ph**	3360.00
041884	V 15-71-Y	15	70.77	3 Ph**	3360.00
041885	V 25-71-Y	25	70.77	3 Ph**	3500.60
041886	V 20-84-Y	20	83.81	3 Ph**	3500.60
041887	V 30-84-Y	30	83.81	3 Ph**	3631.34
041888	V 25-93-Y	25	93.05	3 Ph**	3373.43
041889	V 32-93-Y	32	93.05	3 Ph**	3501.49
041890	V 25-103-Y	25	102.90	3 Ph**	3501.49
041891	V 35-103-Y	35	102.90	3 Ph**	3646.57
041892	Z 25-106-Y	25	106.16	3 Ph**	4603.88
041893	Z 35-106-Y	35	106.16	3 Ph**	4704.18
041894	Z 30-126-Y	30	125.72	3 Ph**	4754.33
041895	Z 40-126-Y	40	125.72	3 Ph**	4894.93
041896	W 40-142-Y	40	141.50	3 Ph**	6900.90
041897	Z 40-154-Y	40	154.38	3 Ph**	6058.21
041898	Z 50-154-Y	50	154.38	3 Ph**	6509.55
041899	W 40-168-Y	40	167.60	3 Ph**	6920.60
041900	W 50-168-Y	50	167.60	3 Ph**	7091.64
041901	W 50-187-Y	50	186.10	3 Ph**	7101.49
041902	W 60-187-Y	60	186.10	3 Ph**	7332.54
041903	W 60-206-Y	60	205.80	3 Ph**	7392.54
041904	W 70-206-Y	70	205.80	3 Ph**	7763.28
041905	W 80-206-Y	80	205.80	3 Ph**	8245.07

* Direct-On-Line Start
** Part Wind Start



HERMETIC CONDENSING UNITS

DANFOSS

The Danfoss programme of fan cooled condensing units are built around compressor types TL, FR, NL and SC. This range accommodates units which are designed for use at high, medium or low evaporating temperatures.

All units have compressors with high starting torque.

The condensing units listed below are T2 versions which are supplied with receiver and 2 valves for expansion valve operation. The N2 versions, supplied without receiver but with valves for capillary tube application, are available to order.

Designed for 240V 50Hz electrical supply.

Capacities taken at 32°C ambient, suction gas 32°C, temperature of refrigerant at condenser outlet is subcooled within the condensing limits of the unit.



CODE	MODEL	NOM HP	REFRIG	CAPACITY (W) EVAPORATING TEMPERATURE °C												LIST £		
				-45	-40	-35	-30	-25	-20	-15	-10	-5	0	+5	+10		+15	
040655	SC12BXT2	3/8	R12			180	235	305	395	495	610	735	875	1030	1195		400.33	
040656	SC15BXT2	1/2	R12			230	300	390	495	615	755	905	1070	1250	1445	1650		436.90
040657	SC18BXT2	2/3	R12			260	340	445	565	705	860	1035	1220	1425	1640	1870		465.24
040658	SC21BXT2	3/4	R12			295	380	490	625	780	955	1155	1375	1610	1870		504.52	
042210	SC10CMXT2	3/8	R22	65	125	200	285	375	480	590	710	835						445.67
042211	SC12CMXT2	1/2	R22	140	205	285	375	475	595	720	860	1010						483.50
042212	SC15BMXT2	1/2	R22	150	230	330	450	585	735	900	1080	1275						507.42
042213	SC18BMXT2	1/2	R22	205	290	395	520	665	830	1010	1205	1420						554.69
042220	SC10DMXT2	1/2	R22							590	725	890	1070	1270	1490			489.27
042221	SC12DMXT2	2/3	R22							720	895	1085	1285	1495	1715			506.21
042222	SC15DMXT2	3/4	R22							890	1125	1375	1630	1895	2160			563.86
042241	TL4GXT2	1/7	R134A			53	70	90	115	150	185	230	280	330	390	445		247.16
042242	TL5GXT2	1/5	R134A			67	90	115	150	195	240	290	350	410	470	535		250.76
042243	FR6GXT2	1/5	R134A			100	125	155	200	250	305	375	450	530	615			270.15
042244	FR7.5GXT2	1/4	R134A			105	140	175	225	280	340	425	510	600	695			292.99
042245	FR8.5GXT2	1/3	R134A			110	145	185	240	300	370	460	550	650	750			310.87
042246	FR10GXT2	1/3	R134A			120	160	205	265	330	405	500	605	710	820			323.23
042247	FR11GXT2	1/3	R134A			140	190	240	310	390	480	600	725	840				343.39
042248	SC12GXT2	2/5	R134A			130	200	285	380	485	600	740	890	1035	1205			375.98
042249	SC15GXT2	1/2	R134A			160	240	340	450	570	700	865	1040	1220	1430	1640		408.92
042250	SC18GXT2	2/3	R134A			185	280	385	515	660	825	1005	1200	1415	1645	1900		433.78
042251	SC21GXT2	3/4	R134A			225	325	440	575	730	915	1115	1340	1580	1850			469.33
042254	TL4CLXT2	1/5	R404A	45	70	100	135	165	205	250	300	355						276.17
042256	FR6CLXT2	1/3	R404A	70	100	150	205	265	330	395	475	550						286.71
042258	FR8.5CLXT2	3/8	R404A	90	130	190	265	345	425	510	605	700						363.25
042259	SC10CLXT2	2/5	R404A			190	280	380	500	620	750	880						390.85
042261	SC12CLXT2	1/2	R404A	110	180	280	400	530	670	820	970	1130						423.30
042262	SC15CLXT2	2/3	R404A	170	250	370	510	660	820	980	1170	1350						443.63
042263	SC18CLXT2	2/3	R404A	220	320	440	590	760	940	1130	1330	1530						483.93

SPARES Full range available - details upon request.

CODE	DESCRIPTION	LIST £
044500	118U0200 5W motor	42.96
044501	118U0201 11W motor	55.44
044502	118U0202 16W motor	60.83
044503	118U0203 20W motor	71.53

REFRIGERANT DESIGNATION

'B'	- R12-H/M/LBP; R502-LBP
'BM'	- R22-LBP
'CM'	- R22-LBP
'CL'	- R404A / R507-LBP
'DM'	- R22-HBP
'G'	- R134A-H/M/LBP

HERMETIC CONDENSING UNITS

ACC

All models suitable for 240V/1Ph/50Hz. Capacities taken at 32°C ambient.



R404A-LBP

CODE	MODEL	NOM HP	EXP DEVICE	CAPACITY (W) EVAP TEMPERATURE °C							LIST £
				-40	-35	-30	-25	-20	-15	-10	
045464	CML90FB3	1/3	C/V	195	249	315	395	487	592	709	340.79
045466	CMP12FB3	3/8	C/V	263	346	443	554	677	815	965	396.33
045468	CMP14FB3	1/2	C/V	264	362	470	588	715	852	999	404.82
045470	CMX18FB3	5/8	C/V	348	478	620	774	941	1121	1312	583.33
045472	CMX21FB3	5/8	C/V	544	692	849	1014	1188	1370	1560	587.04
045473	CMX23FB3	2/3	C/V	667	820	983	1158	1344	1541	1750	590.66
045474	CMS26FB3	3/4	C/V	369	688	1003	1313	1619	1921	2218	615.94
045476	CMS30FB3	7/8	C/V	618	875	1148	1435	1737	2054	2385	641.04
045478	CMS34FB3	1	C/V	826	993	1231	1540	1919	2370	2892	666.04

R134A-M/HBP

CODE	MODEL	NOM HP	EXP DEVICE	CAPACITY (W) EVAP TEMPERATURE °C								LIST £
				-25	-20	-15	-10	-5	0	+5	+10	
045480	CGL45PB2	1/6	C	108	143	184	231	286	346	414	488	263.10
045482	CGL60PB2	1/5	C	130	178	232	293	361	435	517	605	278.40
045484	CGL80TB3	1/4	C/V	166	221	285	358	440	532	632	742	314.88
045486	CGL90TB3	1/4	C/V	204	266	342	430	532	647	776	917	333.57
045488	CGP12TB3	3/8	C/V	251	343	449	569	703	851	1014	1190	352.88
045490	CGP14TB3	3/8	C/V	292	387	499	629	777	941	1124	1324	412.58
045491	CGX18TB3	5/8	C/V	383	506	653	822	1014	1229	1467	1728	551.91
045493	CGX21TB3	2/3	C/V	459	606	778	974	1194	1438	1706	1999	571.33
045495	CGX23TB3	2/3	C/V	492	695	907	1128	1358	1597	1845	2102	584.42
045496	CGS26TB3	3/4	C/V	525	747	991	1255	1540	1845	2171	2518	597.33
045498	CGS30TB3	7/8	C/V	609	854	1136	1454	1808	2199	2626	3089	652.60
045500	CGS34TB3	1	C/V	686	972	1285	1624	1989	2381	2799	3243	687.72

R22-M/HBP

045504	CL57TN3	1/4	C/V	205	268	341	424	518	622	735	859	321.83
045506	CL76TN3	3/8	C/V	326	389	470	570	688	825	981	1155	355.23
045508	CL88TN3	3/8	C/V	348	437	545	671	815	977	1157	1355	385.03
045510	CP12TN3	1/2	C/V	422	554	710	892	1099	1331	1588	1871	462.51
045514	CS22TN3	7/8	C/V	692	964	1257	1570	1904	2257	2632	3026	632.54
045516	CS26TN3	1	C/V	934	1224	1533	1861	2207	2572	2956	3358	657.65

R404A-M/HBP

045520	CML45TB3	1/5	C/V	215	269	328	393	463	539	621	708	317.96
045522	CML60TB3	1/4	C/V	266	335	409	491	579	673	774	881	347.37
045524	CML80TB3	3/8	C/V	408	479	567	672	794	933	1089	1262	356.60
045526	CML90TB3	3/8	C/V	421	529	646	775	913	1062	1221	1391	375.19
045528	CMP12TB3	1/2	C/V	582	733	899	1082	1279	1492	1720	1964	511.37
045530	CMP14TB3	5/8	C/V	613	786	973	1173	1387	1614	1855	2110	548.57
045531	CMX18TB3	3/4	C/V	789	995	1206	1424	1648	1877	2113	2354	629.57
045533	CMX21TB3	7/8	C/V	847	1045	1270	1518	1795	2098	2427	2778	739.18
045536	CMS26TB3	1	C/V	1183	1508	1855	2222	2612	3023	3454	3907	809.90
045538	CMS34TB3	1-5/8	C/V			2425	2960	3480	3985	4575	4945	835.45

HERMETIC CONDENSING UNITS

R404A / R507-LBP All models suitable for 240V/1Ph/50Hz or 400V/3Ph/50Hz as shown. Capacities taken at 32°C ambient.

CODE	MODEL	NOM		EXP DEVICE	CAPACITY (W) EVAP TEMPERATURE °C								LIST £
		HP	SUPPLY		-40	-35	-30	-25	-23.3	-20	-15	-10	
044621	CAE2417ZBR	1/2	1 Ph	C/V	159	238	321	406	436	495	587	682	556.93
044624	CAJ2428ZBR	1/2	1 Ph	C/V	254	372	496	625	671	761	902	1049	648.96
044626	CAJ2432ZBR	5/8	1 Ph	C/V	308	449	594	743	796	898	1058	1222	752.32
044628	CAJ2446ZBR	3/4	1 Ph	C/V	360	547	750	969	1047	1205	1456	1724	867.08
044629	TAJ2446ZBR	3/4	3 Ph	C/V	360	547	750	969	1047	1205	1456	1724	856.79
044630	CAJ2464ZBR	1-1/2	1 Ph	C/V	459	771	1080	1387	1491	1692	1995	2296	975.30
044631	TAJ2464ZBR	1-1/2	3 Ph	C/V	459	771	1080	1387	1491	1692	1995	2296	1000.73
044632	FH2480ZBR	2	1 Ph	C/V	852	1233	1628	2086	2223	2519	2980	3417	1654.02
044633	TFH2480ZBR	2	3 Ph	C/V	852	1233	1628	2086	2223	2519	2980	3417	1624.25
044635	FH2511ZBR	2-1/2	1 Ph	C/V	992	1520	2105	2685	2892	3301	3895	4485	1729.80
044634	TFH2511ZBR	2-1/2	3 Ph	C/V	992	1520	2105	2685	2892	3301	3895	4485	1700.03
044638	TAG2516ZBR	4	3 Ph	C/V	1631	2354	3146	4008	4317	4940	5941	7011	2492.39
044639	TAG2522ZBR	5	3 Ph	C/V	2146	3020	3971	5000	5368	6107	7291	8553	2611.47

R134A-HBP

CODE	MODEL	NOM		EXP DEVICE	CAPACITY (W) EVAP TEMPERATURE °C								LIST £
		HP	SUPPLY		-15	-10	-5	0	+5	+7.2	+10	+15	
043904	AEZ3425YH	1/5	1 Ph	C	255	330	419	508	602	644	699	804	369.12
043905	AEZ4425YHR	1/5	1 Ph	C/V	255	330	419	508	602	644	699	804	408.63
043906	AEZ3430YH	1/4	1 Ph	C	326	410	515	624	742	796	875	993	408.09
043907	AEZ4430YHR	1/4	1 Ph	C/V	326	410	515	624	742	796	875	993	447.59
043909	CAE4440YHR	1/3	1 Ph	C/V	432	544	666	797	935	997	1080	1230	511.48
043910	CAE4440YHHR	1/3	1 Ph	C/V	454	576	713	868	1030	1106	1210	1390	526.08
043912	CAJ4452YHR	3/8	1 Ph	C/V	585	727	885	1070	1270	1367	1500	1730	670.59
043920	CAJ4461YHR	1/2	1 Ph	C/V	653	801	1010	1200	1420	1511	1640	1870	728.49
043922	CAJ4492YHR	3/4	1 Ph	C/V	970	1230	1500	1800	2140	2284	2520	2810	871.39
043924	CAJ4511YHR	1	1 Ph	C/V	1280	1550	1870	2220	2590	2764	3000	3420	966.66
043925	TAJ4511YHR	1	3 Ph	C/V	1280	1550	1870	2220	2590	2764	3000	3420	963.39
043926	FH4518YHR	1-1/2	1 Ph	C/V	1880	2350	2930	3580	4240	4598	5030	5920	1523.59
043927	TFH4518YHR	1-1/2	3 Ph	C/V	1880	2350	2930	3580	4240	4598	5030	5920	1513.85
043928	FH4525YHR	2	1 Ph	C/V	2240	2890	3800	4310	5180	5579	6010	7050	1706.00
043929	TFH4525YHR	2	3 Ph	C/V	2240	2890	3800	4310	5180	5579	6010	7050	1663.76
043945	TAG4543YHR	3-1/2	3 Ph	C/V	3660	4840	6140	7560	9110	9839	10800	12600	2545.35

R22-HBP

CODE	MODEL	NOM		EXP DEVICE	CAPACITY (W) EVAP TEMPERATURE °C								LIST £
		HP	SUPPLY		-25	-20	-15	-10	-5	0	+7.2	+15	
042180	AEZ4430EHR	1/4	1 Ph	C/V			325	394	479	574	720	900	433.01
042182	AEZ4440EHR	1/3	1 Ph	C/V			440	545	665	785	986	1220	499.32
042183	AEZ9440TMHR	1/3	1 Ph	C/V	290	360	440	545	665	785	986	1220	537.46
042188	CAE9450TMHR	3/8	1 Ph	C/V	341	430	543	675	826	992	1235	1520	594.83
042189	CAE9460TMHR	1/2	1 Ph	C/V	406	516	650	806	974	1160	1427	1740	620.81
042193	CAJ9480TMHR	5/8	1 Ph	C/V	570	740	940	1150	1390	1630	2036	2510	835.67
042195	CAJ9510TMHR	3/4	1 Ph	C/V	704	901	1120	1370	1640	1940	2413	2990	888.18
042197	CAJ9513TMHR	1	1 Ph	C/V	797	1050	1340	1660	2010	2370	2904	3530	960.14
042198	TAJ9513TMHR	1	3 Ph	C/V	797	1050	1340	1660	2010	2370	2904	3530	963.39
044699	CAJ4517EHR	1-1/4	1 Ph	C/V			1680	2060	2490	2970	3736	4680	1173.95
044700	TAJ4517THR	1-1/4	3 Ph	C/V			1680	2060	2490	2970	3736	4680	1173.95
044703	FH4522FHR	1-4/5	1 Ph	C/V			2240	2779	3372	4021	5052	6299	1648.61
044704	TFH4522FHR	1-4/5	3 Ph	C/V			2240	2779	3372	4021	5052	6299	1534.59
044705	FH4524FHR	2	1 Ph	C/V			2300	2900	3530	4200	5329	6600	1675.14
044706	TFH4524FHR	2	3 Ph	C/V			2300	2900	3530	4200	5329	6600	1554.45
044710	FH4531FHR	2-1/2	1 Ph	C/V			3580	4330	5170	6140	7580	9270	2433.43
044711	TFH4531FHR	2-1/2	3 Ph	C/V			3580	4330	5170	6140	7580	9270	2213.69
044712	TFH4540FHR	3	3 Ph	C/V			4130	5110	6150	7420	9185	11300	2422.83

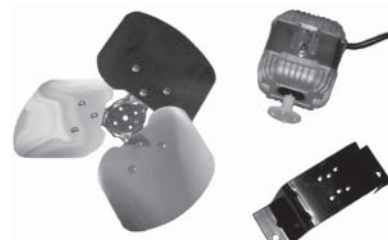
HERMETIC CONDENSING UNITS



R404A / R507-HBP All models suitable for 240V/1Ph/50Hz or 400V/3Ph/50Hz as shown. Capacities taken at 32°C ambient.

<u>CODE</u>	<u>MODEL</u>	<u>NOM</u> <u>HP</u>	<u>SUPPLY</u>	<u>EXP</u> <u>DEVICE</u>	<u>CAPACITY (W) EVAP TEMPERATURE °C</u>								<u>LIST £</u>
					<u>-25</u>	<u>-20</u>	<u>-15</u>	<u>-10</u>	<u>-5</u>	<u>0</u>	<u>+7.2</u>	<u>+15</u>	
044965	AZ9440ZMHR	1/3	1 Ph	C/V	294	390	492	599	712	831	1011	1085	559.34
044967	CAE9450ZMHR	1/2	1 Ph	C/V	374	485	606	738	880	1034	1274	1373	622.43
044968	CAE9460ZMHR	1/2	1 Ph	C/V	445	585	730	880	1035	1195	1435	1531	627.83
044969	CAE9470ZMHR	5/8	1 Ph	C/V	585	754	933	1122	1322	1532	1852	1983	654.58
044970	CAJ9480ZMHR	5/8	1 Ph	C/V	698	883	1079	1287	1506	1736	2088	2231	851.92
044972	CAJ9510ZMHR	3/4	1 Ph	C/V	875	1081	1312	1565	1834	2114	2517	2690	904.42
044974	CAJ9513ZMHR	1	1 Ph	C/V	974	1268	1573	1887	2209	2538	3017	3210	976.40
044975	TAJ9513ZMHR	1	3 Ph	C/V	974	1268	1573	1887	2209	2538	3017	3210	979.64
044976	CAJ4517ZHR	1-1/4	1 Ph	C/V			1937	2326	2764	3225	3841	4105	1190.19
044977	TAJ4517ZHR	1-1/4	3 Ph	C/V			1937	2326	2764	3225	3841	4105	1190.19
044978	CAJ4519ZHR	1-1/2	1 Ph	C/V			2527	2993	3513	4068	4867	5205	1277.87
044979	TAJ4519ZHR	1-1/2	3 Ph	C/V			2527	2993	3513	4068	4867	5205	1275.71
044980	FH4522ZHR	1-4/5	1 Ph	C/V			2370	2917	3478	4052	4905	5244	1659.97
044981	TFH4522ZHR	1-4/5	3 Ph	C/V			2370	2917	3478	4052	4905	5244	1547.24
044982	FH4524ZHR	2	1 Ph	C/V			2660	3242	3843	4463	5390	5761	1708.16
044983	TFH4524ZHR	2	3 Ph	C/V			2660	3242	3843	4463	5390	5761	1587.44
044984	FH4531ZHR	2-1/2	1 Ph	C/V			3766	4617	5488	6379	7698	8223	2466.43
044985	TFH4531ZHR	2-1/2	3 Ph	C/V			3766	4617	5488	6379	7698	8223	2246.69

SPARES Full range available - details upon request.



MOTOR ASSEMBLIES WITH BLADE AND BRACKET

<u>CODE</u>	<u>MODEL</u>	<u>TO SUIT</u>	<u>SUPPLY</u>	<u>WATTS</u>	<u>BLADE DIAM</u>	<u>HEIGHT TO SHAFT</u>	<u>LIST £</u>
043216	8668753	AZ/AEZ/AE/CAE	220V 1Ph	5	202mm	105mm	59.63
043217	8668755	AEZ/AE/CAE	220V 1Ph	5	202mm	105mm	59.63
043218	8668733	AEZ/AE/CAE/CAJ	220V 1Ph	22	250mm	130mm	100.17
043230	8668734	CAE/CAJ	220V 1Ph	22	300mm	160mm	101.96
043231	8668736	TAJ	380V 3Ph	22	300mm	160mm	101.96
043233*	8551094	CAJ/TAJ/FH/TFH/TAG	220V 1Ph	120	-	200mm	251.62
043234*	8551049	TFH/TAG	380V 3Ph	120	-	200mm	255.20

*Motor and bracket only

HERMETIC CONDENSING UNITS / HOUSINGS

MANEUROP

All models suitable for 240V/1Ph/50Hz or 415V/3Ph/50Hz as shown. Refrigerants: R134A/R404A/R507/R407C-H/M/LBP.

Evaporating temperatures (capacities taken at 32°C ambient):

R134A -15°C to +10°C; R404A/R507 -30°C to 0°C; R407C -15°C to +5°C.

CODE	MODEL	NOM HP	CAPACITY (W) R134A REFRIG		SUPPLY (50Hz)		RECEIVER	LIST £
			0°C	-15°C	COMP	FAN	LITRES	
042636	MGZ16.5A3MS10	1-1/2	2000	760	1 PH	1 PH	3.10	824.52
042638	MGZ16.4A3MS10	1-1/2	2000	760	3 PH	1 PH	3.10	790.14
042640	MGZ18.5B3MS10	1-1/2	2200	850	1 PH	1 PH	3.10	869.70
042642	MGZ18.4B3MS10	1-1/2	2200	850	3 PH	1 PH	3.10	849.82
042644	MGZ22.5C3MS10	1-3/4	2850	1300	1 PH	1 PH	3.10	934.80
042646	MGZ22.4C3MS10	1-3/4	2850	1300	3 PH	1 PH	3.10	905.88
042648	MGZ28.5C3MS10	2-1/4	3700	1800	1 PH	1 PH	3.10	1113.80
042650	MGZ28.4C3MS10	2-1/4	3700	1800	3 PH	1 PH	3.10	1092.13
042652	MGZ32.5D3MS14	2-3/4	4100	2000	1 PH	1 PH	6.00	1222.31
042654	MGZ32.4D3TS14	2-3/4	4100	2000	3 PH	3 PH	6.00	1193.35
042656	MGZ32.4D3MS14	2-3/4	4100	2000	3 PH	1 PH	6.00	1193.35
042658	MGZ36.5E3MS14	3	4510	2200	1 PH	1 PH	6.00	1338.02
042660	MGZ36.4E3TS14	3	4510	2200	3 PH	3 PH	6.00	1294.63
042662	MGZ36.4E3MS14	3	4510	2200	3 PH	1 PH	6.00	1301.86
042664	MGZ40.4E3TS14	3-1/2	5200	2500	3 PH	3 PH	6.00	1457.36
042666	MGZ40.4E3MS14	3-1/2	5200	2500	3 PH	1 PH	6.00	1464.60
042668	MGZ50.4G3TS14	4	5880	2540	3 PH	3 PH	7.50	1667.10
042670	MGZ50.4G3MS14	4	5880	2540	3 PH	1 PH	7.50	1685.17
042672	MGZ64.4H3TS14	5	7800	3530	3 PH	3 PH	10.00	2007.22
042674	MGZ64.4H3MS14	5	7800	3530	3 PH	1 PH	10.00	1983.09
042676	MGZ80.4J3TS14	6-1/2	10410	4955	3 PH	3 PH	10.00	2421.09
042678	MGZ80.4J3MS14	6-1/2	10410	4955	3 PH	1 PH	10.00	2446.39
042680	MGZ100.4L3TS14	8-1/2	11900	5590	3 PH	3 PH	10.00	2977.99
042682	MGZ100.4L3MS14	8-1/2	11900	5590	3 PH	1 PH	10.00	3006.93
042684	MGZ125.4M3TS14	10	15660	7705	3 PH	3 PH	14.00	3816.98
042686	MGZ125.4M3MS14	10	15660	7705	3 PH	1 PH	14.00	3854.95
042688	MGZ144.4M3TS14	11-1/2	18120	9060	3 PH	3 PH	14.00	4042.98
042690	MGZ144.4M3MS14	11-1/2	18120	9060	3 PH	1 PH	14.00	4082.76
042692	MGZ160.4N3TS14	13	20200	10230	3 PH	3 PH	14.00	4485.98
042694	MGZ160.4N3MS14	13	20200	10230	3 PH	1 PH	14.00	4531.18

MANEUROP HOUSINGS

CODE	DESCRIPTION	CONDENSER	LIST £
042570	MGM/MGZ unit housing	A3 / B3 / C3	225.09
042572	MGM/MGZ unit housing	D3 / E3 / F3	255.87
042574	MGM/MGZ unit housing	G3 / H3 / J3	286.57
042576	MGM/MGZ unit housing	K3 / L3 / M3 / N3	322.38
042578	MGM/MGZ unit housing	P3 / Q3	462.65

Housing kits consist of four pre-drilled panels. All instructions and fittings are included. Selection is made on the size of the condenser. i.e.: 'B3' (MGM18.5B3MS10) would require an 042570 condensing unit housing.



HERMETIC CONDENSING UNITS

MANEUROP

All models suitable for 240V/1Ph/50Hz or 415V/3Ph/50Hz as shown.

R404A/R507-LBP. Evaporating temperature -40°C to -20°C (capacities taken at 32°C ambient).

CODE	MODEL	NOM HP	CAPACITY (W) R404A REFRIG		SUPPLY (50Hz)		RECEIVER	LIST £
			-20°C	-35°C	COMP	FAN	LITRES	
043470	LGZ22-5C3MS10	1-3/4	2081	1035	1 Ph	1 Ph	3.1	1180.72
043472	LGZ22-4C3MS10	1-3/4	2081	1035	3 Ph	1 Ph	3.1	1095.73
043474	LGZ28-5D3MS10	2-1/4	3076	1589	1 Ph	1 Ph	3.1	1421.19
043476	LGZ28-4D3MS10	2-1/4	3076	1589	3 Ph	1 Ph	3.1	1410.34
043478	LGZ28-4D3TS10	2-1/4	3076	1589	3 Ph	3 Ph	3.1	1410.34
043480	LGZ40-4F3MS14	3-1/2	4286	2261	3 Ph	1 Ph	6.0	1685.17
043482	LGZ40-4F3TS14	3-1/2	4286	2261	3 Ph	3 Ph	6.0	1685.17
043484	LGZ44-4G3MS14	3-3/4	5057	2428	3 Ph	1 Ph	7.5	1777.39
043486	LGZ44-4G3TS14	3-3/4	5057	2428	3 Ph	3 Ph	7.5	1777.39
043488	LGZ50-4H3MS14	4	6522	3296	3 Ph	1 Ph	7.5	1822.60
043490	LGZ50-4H3TS14	4	6522	3296	3 Ph	3 Ph	7.5	1822.60
043492	LGZ88-4K3MS14	7	10139	4943	3 Ph	1 Ph	10.0	2668.81
043494	LGZ88-4K3TS14	7	10139	4943	3 Ph	3 Ph	10.0	2668.81
043496	LGZ100-4K3MS14	8-1/2	12085	5806	3 Ph	1 Ph	10.0	3289.00
043498	LGZ100-4K3TS14	8-1/2	12082	5806	3 Ph	3 Ph	10.0	3289.00

MANEUROP HOUSED CONDENSING UNITS

All models suitable for 240V/1Ph/50Hz or 415V/3Ph/50Hz as shown. Refrigerants: R134A/R404A/R507/R407C-H/M/LBP.

Evaporating temperatures (capacities taken at 32°C ambient):

R134A -15°C to +10°C; R404A/R507 -30°C to 0°C; R407C -15°C to +5°C.

CODE	MODEL	NOM HP	CAPACITY (W) R404A REFRIG		SUPPLY (50Hz)		RECEIVER	LIST £
			0°C	-15°C	COMP	FAN	LITRES	
045410	HCE18.5MS10	1-1/2	3038	1581	1 Ph	1 Ph	3.1	1151.35
045412	HCE18.4MS10	1-1/2	3038	1581	3 Ph	1 Ph	3.1	1131.83
045414	HCE22.5MS10	1-3/4	3766	2256	1 Ph	1 Ph	3.1	1215.21
045416	HCE22.4MS10	1-3/4	3766	2256	3 Ph	1 Ph	3.1	1186.82
045418	HCE28.5MS10	2-1/4	-	2623	1 Ph	1 Ph	3.1	1390.83
045420	HCE28.4MS10	2-1/4	-	2623	3 Ph	1 Ph	3.1	1369.54
045422	HCE32.5MS14	2-3/4	5624	3171	1 Ph	1 Ph	6.0	1527.42
045424	HCE32.4MS14	2-3/4	5624	3171	3 Ph	1 Ph	6.0	1499.04
045426	HCE36.5MS14	3	6610	3812	1 Ph	1 Ph	6.0	1640.97
045428	HCE36.4MS14	3	6610	3812	3 Ph	1 Ph	6.0	1605.49
045430	HCE40.4MS14	3-1/2	6885	4046	3 Ph	1 Ph	6.0	1765.13
045432	HCE50.4MS14	4	9335	5225	3 Ph	1 Ph	7.5	2008.18
045434	HCE64.4MS14	5	11978	6886	3 Ph	1 Ph	10.0	2343.47
045436	HCE80.4MS14	6-1/2	15184	8860	3 Ph	1 Ph	10.0	2755.05
045438	HCE100.4MS14	8-1/2	18957	10548	3 Ph	1 Ph	10.0	3429.16
045440	HCE125.4MS14	10	22807	13257	3 Ph	1 Ph	14.0	4261.17
045442	HCE144.4MS14	11-1/2	25716	15108	3 Ph	1 Ph	14.0	4484.71
045444	HCE160.4MS14	13	26433	16320	3 Ph	1 Ph	14.0	4942.40



Housed condensing units fitted with drier, sight glass, electrical isolator and steel housing.



SEMI-HERMETIC CONDENSING UNITS

A wide range of condensing units fitted with Frascold compressors covering a multitude of refrigerants R22/R134A/R404A/R407C at varying conditions. Ester oil filled compressors are supplied as standard although mineral oil versions can be supplied upon request. All condensing units are fitted with a dual pressure switch as standard. All models suitable for 230V/1Ph/50Hz or 400V/3Ph/50Hz as shown. Capacities taken at 32°C ambient.

CODE	MODEL	SUPPLY	REFRIG	CAPACITY (W) EVAP TEMPERATURE °C										LIST £
				-40	-35	-30	-25	-20	-15	-10	-5	0	+5	
045600	SA0.5-4A-Y	1 Ph	R134A					730	950	1190	1470	1790	2140	1097.91
045601		3 Ph	R404A	480	650	860	1090	1350	1630	1940	2240	2570	2930	952.84
045602	SA0.5-5A-Y	1 Ph	R134A					920	1180	1480	1820	2200	2610	1097.91
045603		3 Ph	R404A	580	780	1020	1300	1590	1900	2230	2570			952.84
045604	SA0.7-5A-Y	1 Ph	R134A					960	1230	1550	1910	2320	2800	1143.58
045605		3 Ph	R404A	610	830	1090	1390	1720	2110	2520	2950	3420		1062.99
045606	SA0.7-6A-Y	1 Ph	R134A					1010	1290	1620	1980	2380	2830	1043.28
045607		3 Ph	R404A	630	850	1110	1400	1710	2040	2370				962.69
045608	SA1-6A-Y	1 Ph	R134A					1020	1350	1700	2110	2570	3080	1143.58
045609		3 Ph	R404A	490	690	940	1240	1620	2280	2800	3380	4060	4820	1128.36
045610	SA1-7A-Y	1 Ph	R134A					1340	1710	2140	2650	3190	3800	1122.99
045611		3 Ph	R404A	820	1120	1460	1840	2280	2730	3230	3760			1018.21
045612	SA1.5-7A-Y	1 Ph	R134A					1390	1790	2250	2770	3390	4080	1215.22
045613		3 Ph	R404A	860	1180	1560	1980	2470	3010	3640	4290	5020	5790	1183.88
045614	SA1.5-9B-Y	1 Ph	R134A					1670	2140	2680	3280	3950	4660	1238.51
045615		3 Ph	R404A	1040	1400	1830	2280	2780	3310	3890	4490			1097.91
045616	SA1.5-10B-Y	1 Ph	R134A					1880	2410	3000	3650	4360	5130	1243.37
045617		3 Ph	R404A	1170	1570	2010	2470	3010						1188.96
045618	SA2-10B-Y	1 Ph	R134A					1910	2460	3100	3820	4640	5560	1414.03
045619		3 Ph	R404A	1260	1690	2200	2770	3430	4130	4890	5680	6550		1369.25
045620	SA2-10B/2-Y	1 Ph	R134A					1960	2530	3200	3960	4840	5840	1654.93
045621		3 Ph	R404A	1310	1770	2310	2910	3620	4400	5300	6260	7300	8430	1585.07
045623	SA2-11D-Y	3 Ph	R134A					2110	2730	3440	4250	5140	6130	1384.48
			R404A		2390	3020	3700	4440	5220	6040	6920			
045625	SA2-11D/2-Y	3 Ph	R134A					2180	2820	3580	4430	5410	6510	1554.63
			R404A		2510	3170	3930	4800	5720	6710	7800			
045627	SA2-13D-Y	3 Ph	R134A					2460	3180	4000	4910	5920	7030	1423.88
			R404A	1660	2210	2850	3550	4300	5100	5950				
045629	SA2-13D/2-Y	3 Ph	R134A					2550	3310	4180	5170	6310	7550	1614.63
			R404A	1730	2320	3010	3770	4670	5620	6660				
045630	SA3-13D-Y	3 Ph	R134A					2440	3150	3980	4900	5930	7060	1489.25
			R404A		2800	3500	4260	5070	5930	6830				
045631	SA3-13D/2-Y	3 Ph	R134A					2520	3290	4160	5150	6300	7560	1795.52
			R404A		2960	3720	4620	5580	6620	7730	8970	10230		
045632	SA2-15D-Y	3 Ph	R134A					2920	3760	4690	5730	6870	8090	1369.25
			R404A	1970	2540	3210	3910	4690						
045633	SA2-15D/2-Y	3 Ph	R134A					3040	3930	4930	6100	7390	8800	1599.43
			R404A	2070	2690	3420	4240	5150						
045634	SA3-15D-Y	3 Ph	R134A					2830	3660	4590	5620	6760	8030	1474.03
			R404A	1840	2430	3110	3830	4630	5450	6350				
045635	SA4-16D/2-Y	3 Ph	R134A					3270	4210	5270	6470	7840	9320	1915.52
			R404A	2260	3010	3880	4840	5960	7140	8430	9850	11280	12790	
045636	SA3-18D-Y	3 Ph	R134A					3340	4280	5340	6500	7800		1499.10
			R404A	2290	2970	3710	4490	5330	6220					
045637	SA3-18D/2-Y	3 Ph	R134A					3500	4510	5700	7000	8450	10030	1660.30
			R404A	2430	3150	3980	4900	5920	7020	8210				
045638	SA4-16F/2-Y	3 Ph	R134A					3260	4220	5310	6550	7990	9560	2181.49
			R404A		3800	4740	5840	6990	8300	9670	11150	12790		
045639	SA4-18D/2-Y	3 Ph	R134A					3600	4650	5880	7280	8840	10580	1925.37
			R404A		4130	5110	6260	7470	8810	10230	11820			
045640	SA4-19F/2-Y	3 Ph	R134A					3970	5020	6230	7640	9190	10920	2201.19
			R404A	2800	3610	4560	5630	6820	8110	9540	11030	12630		

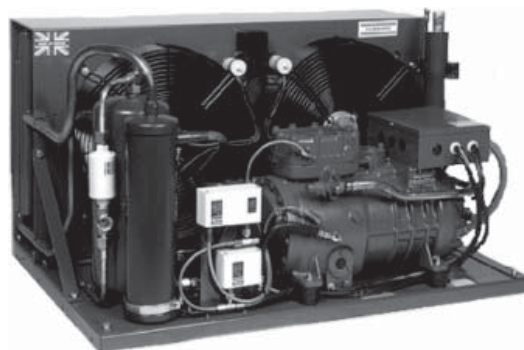
SEMI-HERMETIC CONDENSING UNITS

CODE	MODEL	SUPPLY	REFRIG	CAPACITY (W) EVAP TEMPERATURE °C										LIST £
				-40	-35	-30	-25	-20	-15	-10	-5	0	+5	
045641	SA4-24F/2-Y	3 Ph	R134A					4660	5900	7350	8950	10710	12690	2201.19
			R404A	3420	4400	5530	6740	8100	9570					
045642	SA5-19F/2-Y*	3 Ph	R134A					4030	5150	6440	7940	9640	11560	2663.28
			R404A			4730	5910	7260	8770	10540	12360	14390	16620	
045643	SA5-25F/2-Y	3 Ph	R134A					5110	6470	7990	9710	11620	13700	2462.69
			R404A	3690	4690	5890	7140	8560	10070	11670	13270			
045644	SA7-25F/2-Y*	3 Ph	R134A					5280	6730	8400	10320	12580	15030	2998.58
			R404A			6030	7460	9120	11020	13040	15280	17710	20320	
045645	SA5-28F/2-Y	3 Ph	R134A					5570	7030	8660	10460	12460	14630	2196.13
			R404A	3990	5080	6290	7610	9080	10620					
045646	SA7-28F/2-Y*	3 Ph	R134A					5620	7160	8920	10930	13230	15770	3169.22
			R404A			6450	7990	9840	11780	13920	16230	18760	21470	
045647	SA5-33S/2-Y	3 Ph	R134A					6480	8130	9980	12000	14220		2638.21
			R404A	4360	5640	7020	8500	10160						
045648	SA7-33S/2-Y*	3 Ph	R134A					6710	8530	10660	13080	15810	18840	3350.15
			R404A			7460	9300	11490	13780	16270	18940	21840		
045649	SA7-39S/2-Y*	3 Ph	R134A					7910	9990	12380	15020	17970	21210	3205.07
			R404A	5530	7110	8950	10900	13110	15520	18060				
045650	SA10-39S/2-Y*	3 Ph	R134A					8140	10340	12910	15840	19200	23100	3490.75
			R404A			9480	11740	14390	17370	20620	24070	27840	32150	
045651	SA10-51S/2-Y*	3 Ph	R134A					9850	12490	15440	18740	22310	26320	3505.97
			R404A	6940	8940	11250	13690	16410	19390					
045652	SA15-51S/2-Y*	3 Ph	R134A					10070	12870	16060	19710	23900	28530	3861.49
			R404A			11510	14320	17680	21200	25030	29110	33650	38400	
045653	SA15-56S/2-Y*	3 Ph	R134A					11480	14570	18130	22190	26710	31690	3926.87
			R404A	7850	10260	13110	16290	19820	23610	27750	32200			
045654	SA20-56S/2-Y*	3 Ph	R134A					11310	14390	17990	22080	26680	31810	4463.28
			R404A			12890	16040	19760	23700	28000	32540	37530	42850	
045655	SA20-59V/2-Y*	3 Ph	R134A					11970	15340	19200	23680	28640	34140	5061.49
			R404A			13400	16690	20520	24570	28990	33630	38730	44120	
045656	SA15-71V/2-Y*	3 Ph	R134A					13390	16720	20480	24540			4851.94
			R404A	8780	11330	14120	17110	20310						
045657	SA25-71V/2-Y*	3 Ph	R134A					13670	17410	21720	26540	31960	37880	5844.18
			R404A			15480	19280	23420	27890	32710	37800	43270		
045658	SA20-84V/2-Y*	3 Ph	R134A					16100	20450	25140	30420	36160	42510	5794.03
			R404A	11670	14930	18570	22470	26800	31410					
045659	SA30-84V/2-Y*	3 Ph	R134A					16684	21268	26505	32419	39066	46396	6636.72
			R404A			18978	23350	28266	33574	39293	45204			
045660	SA25-106Z/2-Y* 3 Ph	3 Ph	R134A					20675	26102	32232	39062	46629	54811	7417.61
			R404A	14134	18325	22995	28103	33738	39660	46454				
045661	SA30-126Z/2-Y* 3 Ph	3 Ph	R134A					24109	30246	37092	44620	52819		7558.21
			R404A	16485	21238	26447	32079	38164	44349					

* 3 phase fans fitted as standard.

Models (045647) SA5-33S/2-Y to (045661) SA30-126Z/2-Y are supplied with part wind start motors and can be wired D.O.L. if required. Winding split 50% / 50%.

A full range of factory fitted options is available - details upon request.

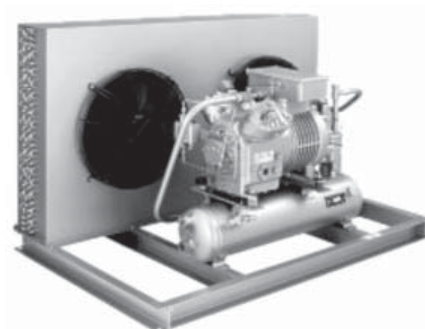
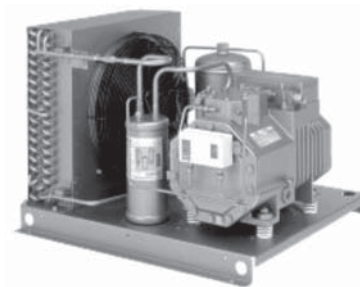


SEMI-HERMETIC CONDENSING UNITS

BITZER

<u>CODE</u>	<u>MODEL</u>	<u>NOM HP</u>	<u>DISP M³/HR @1450rpm</u>	<u>LIST £</u>
041351	LH32/2KC-05.2Y	1/2	4.06	1718.37
041353	LH32/2JC-07.2Y	3/4	5.21	1724.06
041355	LH33/2HC-1.2Y*	1	6.51	1795.85
041357	LH33/2HC-2.2Y*	1-1/2	6.51	1811.81
041359	LH33/2GC-2.2Y*	1-1/2	7.58	1823.20
041361	LH44/2GC-2.2Y*	1-1/2	7.58	1933.73
041363	LH44/2FC-2.2Y*	1-1/2	9.54	1985.01
041365	LH44/2FC-3.2Y	1-4/5	9.54	2021.47
041367	LH44/2EC-2.2Y	2	11.36	2533.11
041369	LH64/2EC-3.2Y	3	11.36	2856.73
041371	LH53/2DC-2.2Y	2	13.42	2707.45
041373	LH64/2DC-3.2Y	3	13.42	3098.30
041375	LH64/2CC-3.2Y	3	16.24	2898.89
041376	LH84/2CC-4.2Y	4	16.24	3313.67
041377	LH64/4FC-3.2Y	3	18.05	3059.56
041378	LH84/4FC-5.2Y	5-1/2	18.05	3541.57
041379	LH64/4EC-4.2Y	4	22.72	3146.16
041380	LH84/4EC-6.2Y	5-1/2	22.72	3722.75
041381	LH84/4DC-5.2Y	5-1/2	26.84	3867.46
041382	LH104/4DC-7.2Y	7-1/2	26.84	4832.62
041383	LH84/4CC-6.2Y	5-1/2	32.48	4665.11
041385	LH104/4TCS-8.2Y	7-1/2	39.36	6116.84
041386	LH114/4VCS-10.2Y	10	33.07	6177.00
041387	LH114/4TCS-12.2Y	12-1/2	39.36	6980.58
041388	LH114/4PCS-10.2Y	10	47.14	6373.22
041389	LH124/4NCS-12.2Y	12-1/2	56.10	7241.52
041390	LH135/4PCS-15.2Y	15	47.14	7951.43
041391	LH135/4NCS-20.2Y	20	56.10	9252.74
041392	LH135/4J-13.2Y	13	63.50	9036.24
041393	LH135/4J-22.2Y	22	63.50	10600.77
041394	LH135/4H-15.2Y	15	73.60	9968.35
041395	LH135/4H-25.2Y	25	73.60	10934.64
041396	LH135/4G-20.2Y	20	84.50	10912.99
041397	LH135/6J-22.2Y	22	93.50	11740.27
041398	LH135/6H-25.2Y	25	110.50	11927.15

This range of Bitzer air cooled condensing units has now been extended covering a range of 1/2HP to 25HP. Supplied as 3 PH as standard, versions marked * are also available suitable for 1 Ph supply. A full range of accessories is available to order, including weatherproof housings. Compressors are ester oil charged as standard.



OPEN COMPRESSORS & CONDENSING UNITS

BITZER

COMPRESSORS

This model series has proved successful over decades all over the world. By a continuous development and the use of high quality materials it sets up - now as ever - the international quality standard.

Can be supplied with an ester oil charge on request. Full range of accessories available.

<u>CODE</u>	<u>MODEL</u>	<u>COOLING</u>	<u>LIST £</u>
041230	O	AIR	566.33
041231	I	AIR	595.96
041232	II	AIR	690.54
041233	III	AIR	860.32
041235	IV	AIR	1247.75
041237	V	AIR	1865.36
041239	VI	WATER	3301.13
041240	VII	WATER	4507.86



Flywheel not included.
Ester oil version supplied as standard.



Supplied with flywheel.

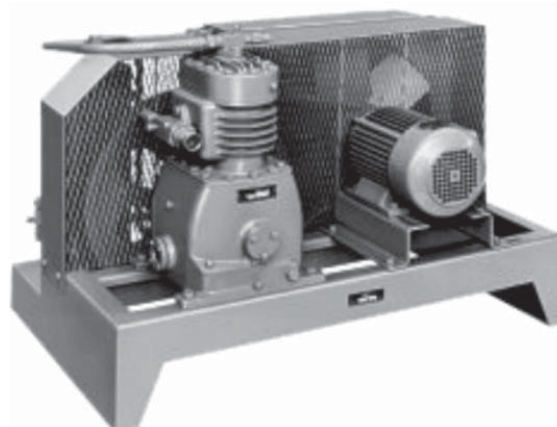
<u>CODE</u>	<u>MODEL</u>	<u>DISP M³/HR</u> <u>@1450rpm</u>	<u>LIST £</u>
041245	2T.2Y	19.60	2823.68
041246	2N.2Y	28.00	3050.44
041247	4T.2Y	39.30	3699.96
041248	4P.2Y	47.10	4261.73
041249	4N.2Y	56.10	4432.66
041250	4H.2Y	73.60	6222.81
041251	4G.2Y	84.50	6342.46
041252	6H.2Y	110.50	8423.18
041253	6G.2Y	126.80	8616.90
041254	6F.2Y	151.60	9065.86

CONDENSING UNITS

Air cooled condensing units with open compressor for belt drive are coordinated combinations of the successful Bitzer open 2 cylinder compressors with air cooled condensers and liquid receivers.

Supplied without motor. Full range of accessories available.

<u>CODE</u>	<u>MODEL</u>	<u>LIST £</u>
041420	L05/O	1056.32
041421	L10/I	1066.57
041423	L20/II	1360.56
041425	L30/II	1477.93
041426	L30/III	1602.14
041429	L40/III	2106.94
041431	L40/IV	2486.39
041435	L50/IV	2941.05
041436	L50/V	3676.03
041438	L64/V	4648.02
041441	L104/VI	7995.87
041445	L104/VII	9700.56
041446	L124/VII	10825.25



Supplied with motor pulley and belts.

HOUSED SCROLL CONDENSING UNITS

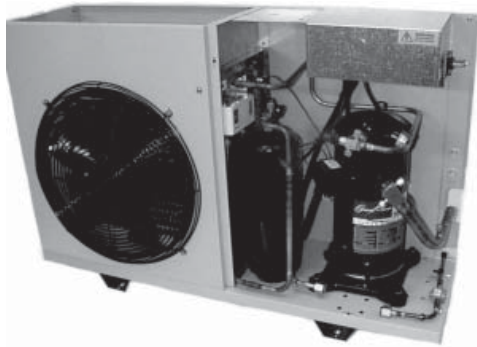
HUBBARD

- Preset HP safety switch
- Adjustable LP safety switch
- Mains isolator
- Compressor contactor and overload
- Liquid line drier and sight glass
- Common footprint for all models
- Liquid receiver with shut off valve
- Crankcase heater
- Receiver pressure relief
- Compressor service valves

R404A REFRIGERANT, CAPACITY (W), AMBIENT TEMPERATURE 32°C.

<u>MODEL</u>	<u>EVAPORATING TEMPERATURE °C</u>										
	<u>10</u>	<u>5</u>	<u>0</u>	<u>-5</u>	<u>-10</u>	<u>-15</u>	<u>-20</u>	<u>-25</u>	<u>-30</u>	<u>-35</u>	<u>-40</u>
HCPS Z09KL-T					4500	3830	3210	2660	2190	1770	1400
HCPS Z11KL-T					5300	4520	3820	3210	2640	2130	1690
HCPS Z13KL-T					6610	5640	4780	3980	3290	2660	2120
HCPS Z15KL-T					7620	6490	5500	4600	3800	3070	2400
HCPS Z18KL-T					9400	8000	6770	5120	4620	3740	2930
HCPS ZF24KL-T			15823	13943	12134	10473	8966	7578	6924	5136	4056
HCPS Z19KMH-P/T	6840	6060	5320	4600	3940	3340	2810				
HCPS Z21KMH-P/T	9200	8120	7120	6140	5250	4410	3700				
HCPS Z26KMH-P/T	11020	9710	8420	7190	6140	5230	4320				
HCPS Z30KMH-T	12230	10800	9470	8160	6980	5920	4920				
HCPS Z38KMH-T	14400	12950	11370	9910	8400	7200	5990				
HCPS Z45KMH-T	18330	16170	14040	12100	10350	8770	7360				
HCPS ZS56KMH-T		18990	16670	14610	12630	10840	9180				

Duties published at 20°C suction return gas temperature at compressor - nil liquid sub-cooling.



<u>CODE</u>	<u>MODEL</u>	<u>NOM HP</u>	<u>SUPPLY</u>	<u>FANS</u>	<u>LIST £</u>
045740	HCPS Z09KL-T	3	3 ph	1	1937.01
045741	HCPS Z11KL-T	3-1/2	3 ph	1	2031.04
045742	HCPS Z13KL-T	4	3 ph	1	2131.34
045743	HCPS Z15KL-T	5	3 ph	1	2248.36
045744	HCPS Z18KL-T	6	3 ph	2	2573.28
045745	HCPS ZF24KL-T	7-1/2	3 ph	2	4143.58
045750	HCPS Z19KMH-P	2-1/2	1 ph	1	1755.22
045751	HCPS Z19KMH-T	2-1/2	3 ph	1	1696.72
045752	HCPS Z21KMH-P	3	1 ph	1	1908.81
045753	HCPS Z21KMH-T	3	3 ph	1	1865.97
045754	HCPS Z26KMH-P	3-1/2	1 ph	2	2165.82
045755	HCPS Z26KMH-T	3-1/2	3 ph	2	2124.03
045756	HCPS Z30KMH-T	4	3 ph	2	2212.84
045757	HCPS Z38KMH-T	5	3 ph	2	2425.97
045758	HCPS Z45KMH-T	6	3 ph	2	2691.34
045759	HCPS ZS56KMH-T	7-1/2	3 ph	2	3270.15

<u>CODE</u>	<u>MODEL</u>	<u>LIST £</u>
045731	Wall mounting bracket for single fan version	51.19
045732	Wall mounting bracket for twin fan version	71.04

OPTIONAL EXTRAS

OIL SEPARATOR
 FAN SPEED CONTROLLER
 ACOUSTIC KIT
 UNIT STACKING FRAME

CELLAR COOLING SYSTEMS

HUBBARD LITE

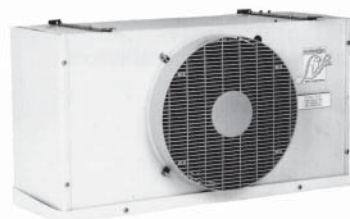
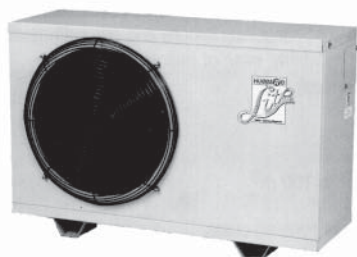


The 'Lite' comprises of a weatherproof housed condensing unit (outdoor unit) matched to an evaporator (indoor unit), operating on either R134A or R407C refrigerants.

The new system is ideally suited for both new and replacement cellar installations.

Designed for quietness of operation the condensing unit section incorporates the latest quiet running sickle bladed fan technology. The plastic coated housing which is 'self healing smart steel' reduces weight whilst minimising corrosion, ensuring extended life. The condensing unit is suitable for ground / flat roof mounting and features quick release panels for ease of access. It can also be wall mounted with the addition of Hubbard 'Lite' brackets.

The evaporator can either be wall or ceiling mounted and contains the tamper proof system temperature controller, allowing trouble free operation. Heating option is available where cask-conditioned ale is stored.



QUICK SELECTION GUIDE

Recommended maximum cellar volume (cubic metres). Ambient temperature 27°C. Cellar temperature 10°C.										
MODEL	REFRIGERANT	10	20	30	40	50	60	70	80	90
LITE 100	R134A									
LITE 100	R407C									
LITE 150	R134A									
LITE 150	R407C									
LITE 200	R134A									
LITE 200	R407C									

<u>CODE</u>	<u>MODEL</u>	<u>LIST £</u>
045680	LITE 100 - R134A 1Ph	1427.16
045681	LITE 150 - R134A 1Ph	1727.01
045682	LITE 200 - R134A 1Ph	2102.09
045683	LITE 100 - R407C 1Ph	1482.54
045684	LITE 150 - R407C 1Ph	1785.52
045685	LITE 200 - R407C 1Ph	2192.99

OPTIONAL EXTRAS - SUPPLIED SEPARATELY

<u>CODE</u>	<u>DESCRIPTION</u>	<u>LIST £</u>
045690	Heaters complete with overheat protection - models 100 and 150, R134A and R407C.	96.12
045691	Heaters complete with overheat protection - model 200, R134A and R407C.	110.75
045730	Evaporator wall mounting brackets - all models per pair.	55.37
045731	Condenser wall mounting bracket - all models per pair.	74.18

CELLAR COOLING SYSTEMS

HUBBARD PREMIUM

Premium condensing units are housed in weatherproofed housings for maximum outdoor durability and matched to an indoor evaporator operating on either R407C or R134A refrigerants.

This new system is ideally suited for both new and replacement cellar installations.

Designed for all year round temperature control the Premium system offers cooling and heating as standard.

To ensure reduced noise levels the condensing unit is fitted with a fan speed controller as standard. The plastic coated housing constructed from 'self healing smart steel' reduces weight whilst minimising corrosion, ensuring extended life.

The condensing unit can be ground or flat roof mounted and features quick release panels for ease of access.

The evaporator can be either wall or roof mounted and contains a tamper proof electronic digital read out controller for trouble free operation.

Equipment is suitable for use with 230V/1Ph/50Hz or 400V/3Ph/50Hz supply as shown.

QUICK SELECTION GUIDE



MODEL	REFRIG	Recommended maximum cellar volume (cubic metres)																			*Optional twin coolers		
		10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190		200	210
100	R134A																						
100	R407C																						
150	R134A																						
150	R407C																						
200*	R134A																						
200*	R407C																						
250*	R134A																						
250*	R407C																						
275*	R134A																						
350*	R134A																						
350*	R407C																						
450*	R134A																						
450*	R407C																						

<u>CODE</u>	<u>R134A MODEL</u>	<u>LIST £</u>	<u>CODE</u>	<u>R407C MODEL</u>	<u>LIST £</u>
045700	Premium 100 1Ph	1781.34	045715	Premium 100 1Ph	2073.88
045701	Premium 150 1Ph	2223.28	045716	Premium 150 1Ph	2326.72
045702	Premium 200 1Ph	2416.57	045717	Premium 200 1Ph	2474.03
045703	Premium 200 1Ph Twin Cooler	3144.78	045718	Premium 200 1Ph Twin Cooler	3293.13
045704	Premium 250 3Ph	2654.78	045719	Premium 250 1Ph	3007.91
045705	Premium 250 3Ph Twin Cooler	3474.93	045720	Premium 250 3Ph	3007.91
045706	Premium 275 3Ph	2794.78	045721	Premium 250 1Ph Twin Cooler	3649.40
045707	Premium 275 3Ph Twin Cooler	3586.72	045722	Premium 250 3Ph Twin Cooler	3649.40
045708	Premium 350 3Ph	3436.27	045723	Premium 350 3Ph	3299.40
045709	Premium 350 3Ph Twin Cooler	4302.39	045724	Premium 350 3Ph Twin Cooler	3901.19
045710	Premium 450 3Ph	4071.49	045725	Premium 450 3Ph	3570.00
045711	Premium 450 3Ph Twin Cooler	5007.61	045726	Premium 450 3Ph Twin Cooler	4065.22

<u>CODE</u>	<u>MODEL</u>	<u>LIST £</u>
045730	Evaporator wall mounting brackets - all models (per pair)	55.37
045731	Condenser wall mounting brackets - models 100, 150, 200 (per pair)	54.33
045732	Condenser wall mounting brackets - models 250, 275, 350, 450 (per pair)	74.18

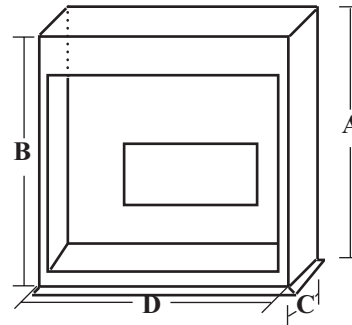
CONDENSING UNIT HOUSINGS AND GUARDS

CONDENSING UNIT HOUSINGS

VIRGO GRP

CODE	MODEL	DIMENSIONS mm				LIST £
		A	B	C	D	
040400	01	432	381	584	584	114.84
040401	1	609	559	762	660	141.61
040402	2	762	686	965	838	151.61
040403	3	787	737	813	1142	208.34
040404	4	914	864	1092	1118	216.97
040405	5	914	864	965	1753	321.24
040406	6	1219	1168	1092	1422	476.21
040407	7	1371	1295	1346	1879	579.15

- Made in G.R.P. (glass-reinforced plastic). Waterproof, strong, light weight, durable, rot-proof and requiring no maintenance. Easily removable for overall access to unit.
- Acoustic lined versions also available.



BBJ HOUSING



- Designed for easy installation, boxed and ready with all necessary fixings.
- All steelwork undergoes a 5-part phosphating pretreatment prior to a 60 micron powder coat finish in ivory.

Internal dimensions (mm)

	H	W	D
Small	410	640	530
Medium	460	740	640

External dimensions (mm)

Small	500	710	600
Medium	550	810	720

CODE	MODEL	LIST £
040015	Small	178.21
040017	Medium	213.40

BBJ CONDENSING UNIT GUARDS

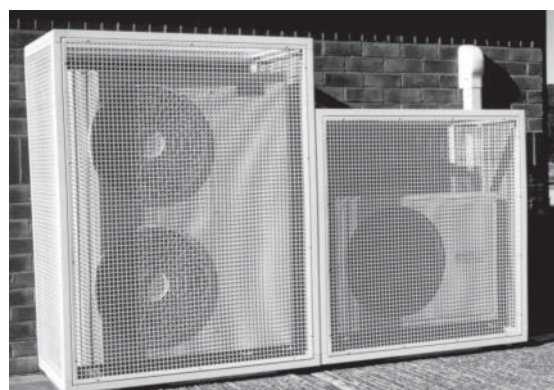
CODE	MODEL	LIST £
040420	Small	250.75
040422	Medium	340.30
040424	Large	397.01

External dimensions (mm)

	H	W	D
Small	700	1000	450
Medium	1100	1100	600
Large	1400	1100	600

Internal dimensions (mm)

Small	600	900	350
Medium	1000	1000	500
Large	1300	1000	500

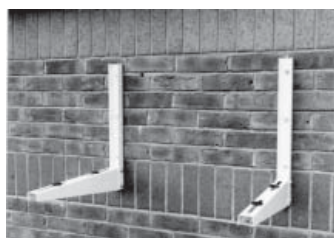


A range of three aesthetically pleasing, unobtrusive condensing unit guards to deter vandalism and damage to valuable equipment.

The framework is of aluminium structure and painted. The panels are of steelwork and pass through a 5-part phosphating pretreatment prior to a 60 micron powder coat finish in ivory.

CONDENSING UNIT SUPPORTS

BBJ CONDENSING UNIT BRACKETS AND TRAYS



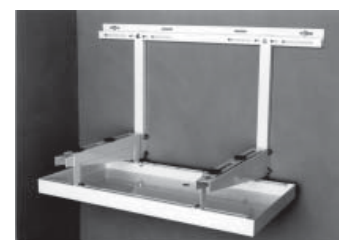
TYPE 1 ▲ ▼ TYPE 2



- A range of six condensing unit brackets with a high quality finish for the air conditioning and refrigeration industry.
- BBJ supports give a professional and highly economic solution to your installations.
- Type 1 60, 90, 140 or 250 kgs maximum load.
- Type 2 60, 90 or 140 kgs maximum load.
- Brackets may be top, centre or low mounted on the uprights.
- Condensing unit trays to fit all BBJ brackets.
- Two sizes flat packed with all required fixings and 15mm drain plug.



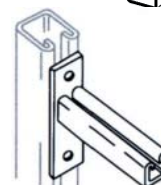
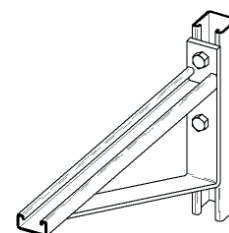
CODE	MODEL	LIST £
040020	Type 1 60kg	27.47
040021	Type 1 90kg	28.27
040022	Type 1 140kg	32.91
040023	Type 1 250kg	61.90
040024	Type 2 60kg	31.16
040025	Type 2 90kg	39.98
040026	Type 2 140kg	45.13
040027	Tray 800x400x50mm	70.36
040028	Tray 1100x400x50mm	76.76



WALL BRACKETS

CODE	MODEL	SIZE	MAX LOAD	LIST £
040002	B49418	18" (457mm)	446 Kg	29.48
040003	B49424	24" (610mm)	446 Kg	29.48
040004	B49430	30" (762mm)	400 Kg	31.64
040005	B49442	42" (1067mm)	318 Kg	45.07

B-Line



* Uniformly distributed load (Kgf)

CANTILEVER ARMS

040007	CLA-150	150mm	836kg *	4.21
040008	CLA-300	300mm	418kg *	5.45
040009	CLA-450	450mm	275kg *	6.64
040010	CLA-600	600mm	209kg *	7.95
040011	CLA-750	750mm	167kg *	9.94
040012	CLA-900	900mm	110kg *	12.71

BIG FOOT SUPPORT SYSTEM

The Big Foot Support System is a simple and universal framework which can be used to support anything on a flat roof.

- Three modular frames to suit different sized condensing units
- Complete on-site flexibility
- Simple and quick to assemble and adjust
- Easy maintenance of roof surfaces without decommissioning units
- Offers a neat and tidy support solution
- Cost effective
- Saves specification time
- Flatpack systems for easy transport
- Galvanised metalwork



CODE	MODEL	LIST £
040070	Big Foot System for 2 condensing units	438.71
040071	Big Foot System for 4 condensing units	715.94
040072	Big Foot System for 6 condensing units	982.53

CAPACITORS, RELAYS AND OVERLOADS

CAPACITORS

<u>CODE</u>	<u>SIZE</u>	<u>TYPE</u>	<u>LIST £</u>
040330	51-68 mfd	Start - 275V/50Hz	8.39
040331	64-78 mfd	Start - 275V/50Hz	9.23
040332	80-100 mfd	Start - 275V/50Hz	9.80
040339	100-130 mfd	Start - 275V/50Hz	11.35
040340	130-156 mfd	Start - 275V/50Hz	12.02
040334	161-193 mfd	Start - 275V/50Hz	16.73
040326	1.5 mfd	Run - 440V/50Hz	6.00
040328	3 mfd	Run - 440V/50Hz	6.50
040335	5 mfd	Run - 440V/50Hz	6.64
040336	10 mfd	Run - 440V/50Hz	9.25
040337	15 mfd	Run - 440V/50Hz	10.11
040338	20 mfd	Run - 440V/50Hz	16.80
040342	25 mfd	Run - 440V/50Hz	19.52
040344	35 mfd	Run - 440V/50Hz	22.88
040345	40 mfd	Run - 440V/50Hz	23.85

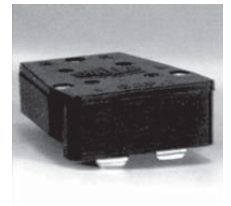


RELAYS

<u>CODE</u>	<u>MODEL</u>	<u>DESCRIPTION</u>	<u>LIST £</u>
040350	ICG-220	One size for all compressors from 1/12HP to 1/2HP 230V. Easy to install. Can be used with or without a start capacitor.	6.67
040352	PO-230	One size for all compressors from 1/12HP to 1/2HP 230V. For use on compressors with "pin type" terminals. Can be used on all capacitor and noncapacitor start motors.	6.67
040353	PO-115	115V version of above.	6.67
040355	SUPR	Universal potential relay. Replaces all potential motor-starting relays for compressors rated at 110V to 270V AC single phase up to 5HP with any pick-up voltage.	30.70
040358	APR-5	Adjustable potential relay. One relay allows for the replacement of thousands of potential relays with pick-up voltages from 130V to 370V.	30.70



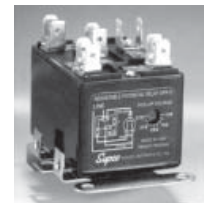
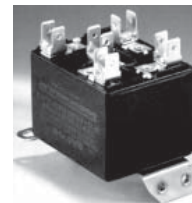
▲ ICG-220



▲ PO-230/115

SUPR ▼

APR-5 ▼



RELAY WITH OVERLOAD COMBINED

RO and PRO series of relay and overload combinations, with models to suit up to 2/3HP. Can be used in conjunction with a start capacitor. RO - wired version PRO - push-on version.



◀ RO - WIRED

PRO - PUSH-ON ▶



<u>CODE</u>	<u>MODEL</u>	<u>SIZE</u>	<u>LIST £</u>	<u>CODE</u>	<u>MODEL</u>	<u>SIZE</u>	<u>LIST £</u>
041521	RO-81	1/12 to 1/5HP 115V	13.79	041530	PRO-82	1/12 to 1/8HP 230V	14.10
041522	RO-41	1/4 to 1/3HP 115V	13.79	041531	PRO-62	1/6 to 1/5HP 230V	14.10
041523	RO-82	1/12 to 1/8HP 230V	13.79	041532	PRO-42	1/4 to 1/3HP 230V	14.10
041524	RO-62	1/6 to 1/5HP 230V	13.79	041533	PRO-22	1/2 to 2/3HP 230V	14.10
041525	RO-42	1/4 to 1/3HP 230V	13.79				
041526	RO-22	1/2 to 2/3HP 230V	13.79				

RELAYS, POW-R-PAK & CRANKCASE HEATERS

RELAY WITH CAPACITOR AND OVERLOAD

The 3 n' 1 Start Relay adds new life to old refrigerators and freezers by providing an additional boost to the compressor. This ALL-IN-ONE unit replaces all three electrical components - relay, overload and start capacitor.

<u>CODE</u>	<u>MODEL</u>	<u>SIZE</u>	<u>LIST £</u>
041535	RCO-820	1/12 to 1/8HP 230V	19.58
041536	RCO-620	1/6 to 1/5HP 230V	19.58
041537	RCO-420	1/4 to 1/3HP 230V	19.58
041538	RCO-220	1/2 HP 230V	19.58

Supco



RELAYS AND POW-R-PAKS



◀RSC

SPP▶



◀SPP-5

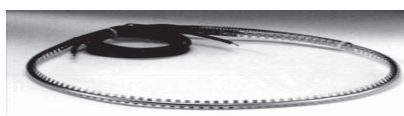
SPP-6▶



<u>CODE</u>	<u>MODEL</u>	<u>DESCRIPTION</u>	<u>LIST £</u>
041540	RSC-20	The Big Relay. One size for all compressors from 1/12HP to 1/2HP 230V for both domestic and commercial refrigerators and freezers. A combined solid state relay and capacitor.	16.09
041545	SPP	Starter Pow-R-Pak. Increases starting torque up to 250%. Suitable for PSC air conditioning units and heat pumps from 4000 to 120000 BTU (1/2 to 10HP) 115-230V.	11.28
041548	SPP-5	Starter Pow-R-Pak. Increases starting torque up to 300%. Suitable for PSC air conditioning units and heat pumps from 4000 to 120000 BTU (1/2 to 10 HP) 115-230V. For low voltage and hard starting compressors.	15.99
041550	SPP-6	Super Boost. As SPP-5 but increases starting torque up to 500%.	25.83
041552	SPP-8E	Super Boost. As SPP-5 but increases starting torque up to 690%.	43.25

Supco

CRANKCASE HEATERS



<u>CODE</u>	<u>MODEL</u>	<u>DESCRIPTION</u>	<u>LIST £</u>
040320	CH-101	240V 54W Circumference 697 to 870mm (Tecumseh AH)	17.70
040322	CH-102	240V 60W Circumference 654 to 827mm (Tecumseh AJ)	17.70
040324	CH-104	240V 75W Circumference 1054 to 1227mm	17.70

Supco

- Entire heating band is corrosion resistant
- Installs quickly and easily
- Low power consumption
- High temperature silicone rubber element
- 30" long insulated leads