



**Thermofrost Cryo**

REFRIGERATION & AIR CONDITIONING

2015



**cubigel**  
compressors



**dixell**

**eliwell**

by Schneider Electric

**GEA**

GEA Küba GmbH

**J&E Hall**  
International



**Waneurop**



**SAGInoMIYA**

**SPORLAN**  
TF

**SANHUA**

COMMERCIAL REFRIGERATION

PRICE LIST • MAY 2015

## TEMPERATURE CONVERSIONS

°C	↓	°F	°C	↓	°F
-101.1	-150	-238.0	-17.8	0	32.0
-95.6	-140	-220.0	-17.2	1	33.8
-90.0	-130	-202.0	-16.7	2	35.6
-84.4	-120	-184.0	-16.1	3	37.4
-78.9	-110	-166.0	-15.6	4	39.2
-73.3	-100	-148.0	-15.0	5	41.0
-67.8	-90	-130.0	-14.4	6	42.8
-62.2	-80	-112.0	-13.9	7	44.6
-56.7	-70	-94.0	-13.3	8	46.4
-51.1	-60	-76.0	-12.8	9	48.2
-45.6	-50	-58.0	-12.2	10	50.0
-45.0	-49	-56.2	-11.7	11	51.8
-44.4	-48	-54.4	-11.1	12	53.6
-43.8	-47	-52.6	-10.6	13	55.4
-43.3	-46	-50.8	-10.0	14	57.2
-42.8	-45	-49.0	-9.4	15	59.0
-42.2	-44	-47.2	-8.9	16	60.8
-41.7	-43	-45.4	-8.3	17	62.6
-41.1	-42	-43.6	-7.8	18	64.4
-40.6	-41	-41.8	-7.2	19	66.2
-40.0	-40	-40.0	-6.7	20	68.0
-39.4	-39	-38.2	-6.1	21	69.8
-38.9	-38	-36.4	-5.6	22	71.6
-38.3	-37	-34.6	-5.0	23	73.4
-37.8	-36	-32.8	-4.4	24	75.2
-37.2	-35	-31.0	-3.9	25	77.0
-36.7	-34	-29.2	-3.3	26	78.8
-36.1	-33	-27.4	-2.8	27	80.6
-35.6	-32	-25.6	-2.2	28	82.4
-35.0	-31	-23.8	-1.7	29	84.2
-34.4	-30	-22.0	-1.1	30	86.0
-33.9	-29	-20.2	-0.6	31	87.8
-33.3	-28	-18.4	0	32	89.6
-32.8	-27	-16.6	0.6	33	91.4
-32.2	-26	-14.8	1.1	34	93.2
-31.7	-25	-13.0	1.7	35	95.0
-31.1	-24	-11.2	2.2	36	96.8
-30.6	-23	-9.4	2.8	37	98.6
-30.0	-22	-7.6	3.3	38	100.4
-29.4	-21	-5.8	3.9	39	102.2
-28.9	-20	-4.0	4.4	40	104.0
-28.3	-19	-2.2	5.0	41	105.8
-27.8	-18	0.4	5.6	42	107.6
-27.2	-17	1.4	6.1	43	109.4
-26.7	-16	3.2	6.7	44	111.2
-26.1	-15	5.0	7.2	45	113.0
-25.6	-14	6.8	7.8	46	114.8
-25.0	-13	8.6	8.3	47	116.6
-24.4	-12	10.4	8.9	48	118.4
-23.9	-11	12.2	9.4	49	120.2
-23.3	-10	14.0	10.0	50	122.0
-22.8	-9	15.8	15.6	60	140.0
-22.2	-8	17.6	21.1	70	158.0
-21.7	-7	19.4	26.7	80	176.0
-21.1	-6	21.2	32.2	90	194.0
-20.6	-5	23.0	37.8	100	212.0
-20.0	-4	24.8	43.3	110	230.0
-19.4	-3	26.6	48.9	120	248.0
-18.9	-2	28.4	54.4	130	266.0
-18.3	-1	30.2	60.0	140	284.0

## INDEX

There is a sectional index on page 1, and a complete alphabetical index at the rear of the book.

## CONVERSION FACTORS

The following information may assist when converting.

Temperature:  $1^{\circ}\text{C} = 1.8^{\circ}\text{F}$ ;  $1^{\circ}\text{F} = 0.56^{\circ}\text{C}$   
 $^{\circ}\text{C} = 5/9 (^{\circ}\text{F}-32)$ ;  $(\frac{9^{\circ}\text{C}}{5}) + 32$

Pressure:  $1 \text{ Bar} = 14.50\text{psi}$   
 $1 \text{ KG/cm}^2 = 14.22\text{psi} = 98.0667 \text{ KPA} = 0.980667 \text{ Bar}$

Heat Flow Rate:  $1 \text{ Refrigeration Ton (TR)} = 12,000\text{Btu/h} = 3,516.85 \text{ watts}$

$1 \text{ Btu/h} = 0.293 \text{ watts} = 0.25\text{kcal/h}$   
 $1 \text{ kcal/h} = 1.163 \text{ watts}$

Energy:  $1 \text{ Btu} = 1.05506 \text{ K. Joule}$

Length:  $1 \text{ inch} = 25.4\text{mm}$   
 $1\text{m} = 3.281\text{ft}; 1.094 \text{ yards}$

Weight:  $1\text{lb} = 0.4535\text{kg}$   
 $1 \text{ gram} = 0.03528\text{oz}$

Volume:  $1 \text{ gallon} = 4.4561 \text{ litres}$   
 $1\text{dm}^3 = 1 \text{ litre} = 1,000\text{cc}$   
 $1\text{cc} = 0.06102\text{cu inch}$   
 $1\text{cu ft} = 0.0283\text{cu metres}$

Flow:  $1 \text{ litre/s} = 3.6\text{cu metres/h}$   
 $1 \text{ cfm} = 1.7\text{cu metres/h}$

Power:  $1\text{hp} = 0.746\text{kW}$

## DATA

The data given herein is based on current manufacturers specifications at the time of going to press. Whilst every effort has been made to ensure accuracy, we regret we can accept no responsibility for incorrect data. Separate data sheets are available on request.

## COMPARISON CHARTS

Section 7 shows product comparisons. Whilst every effort has been made to provide effective comparisons, these are for guide purposes only and we regret we can accept no responsibility for any errors or omissions.

## REFRIGERANTS

Unless specifically stated, products are suitable for HFC, HCFC and CFC refrigerants, with the exception of R410A. Drop-ins may be used for CFC & HCFC refrigerants. However our Technical Department is always pleased to advise on suitability for specific refrigerants.

Products suitable for use with ammonia and carbon dioxide appear in our Industrial price list.

Air conditioning systems and accessories appear in our Air Conditioning price list.

Tube, insulation, refrigerant, brazing materials and cleaning and treatment products appear in our Supplementary price list.

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## COMPRESSORS

**cubigel**  
compressors



Capacity at Cond. +55°C

7) Evap. -23°C

8) Evap. +7.2°C

All models 230V. 1.50Hz.

Models designated -V have suction valve fitted.

T models do not, nor do models with no suffix.

\*Note: MS34TB is limited to a lowest evaporating temperature of -15°C.

### R404A LOW BACK PRESSURE (7) -40°C TO -10°C EVAPORATING

CODE	MODEL	APPROX HP	C.C	CAPACITY		CONTROL	COOLING	(KF) LIST EA
				WATTS	BTU/HR			
UNC798	ML45FB	1/6	4.5	198	676	C/V	F	140.90
UNC800	ML60FB	1/6	5.5	262	894	C/V	F	143.47
UNC801	ML80FB	1/4	8.1	372	1,272	C/V	F	150.83
UNC802	ML90FB	1/3	9.8	407	1,391	C/V	F	157.20
UNC804	MP12FB	3/8	12.0	523	1,788	C/V	F	167.58
UNC803	MLY12LAa	3/8	10.7	570	1,945	C/V	F	153.70
UNC805	MP14FB	1/2	14.0	628	2,146	C/V	F	175.35
UNC746	MPT14LA	1/2	14.0	779	2,658	C/V	F	217.95
UNC820	MX18FB	5/8	18.0	814	2,782	C/V	F	281.82
UNC822	MX21FB	2/3	21.0	936	3,199	C/V	F	288.88
UNC824	MX23FB	2/3	23.0	1,064	3,636	C/V	F	292.78
UNC812	MS26FB-T	3/4	26.0	1,221	4,172	C/V	F	332.97
UNC813	MS26FB-V	3/4	26.0	1,221	4,172	C/V	F	343.81
UNC816	MS34FB-T	1	34.0	1,628	5,563	C/V	F	363.64
UNC817	MS34FB-V	1	34.0	1,628	5,563	C/V	F	375.46

### R404A/R407C HIGH BACK PRESSURE (8) -25°C TO +10°C EVAPORATING

UNC834	ML45TB	1/5	4.5	663	2,265	C/V	F	140.90
UNC836	ML60TB	1/4	5.7	814	2,782	C/V	F	131.76
UNC838	ML80TB	3/8	7.6	1,105	3,775	C/V	F	148.29
UNC840	ML90TB	3/8	8.8	1,326	4,530	C/V	F	150.23
UNC742	MP12RB	1/2	12.0	1,838	6,278	C/V	F	206.91
UNC741	MPT12RA	3/8	12.1	1,960	6,688	C/V	F	206.91
UNC744	MP14RB	1/2	14.0	2,093	7,142	C/V	F	217.95
UNC745	MPT14RA	1/2	14.3	2,210	7,541	C/V	F	217.95
UNC855	MX16TB	5/8	16.0	2,378	8,126	C/V	F	274.70
UNC856	MX18TB	3/4	18.0	2,710	9,259	C/V	F	277.11
UNC857	MX21TB	7/8	21.0	3,047	10,411	C/V	F	308.74
UNC859	MS22TB-V	1	21.8	3,243	11,080	C/V	F	324.01
UNC850	MS26TB-T	1	26.0	4,011	13,705	C/V	F	316.26
UNC851	MS26TB-V	1	26.0	4,011	13,705	C/V	F	330.91
UNC852	MS34TB-T*	1.5/8	34.0	5,293	18,084	C/V	F	327.82
UNC853	MS34TB-V*	1.5/8	34.0	5,293	18,084	C/V	F	342.48

Note: The MP12RB and MP14RB compressors are replaced by the MPT12RA and the MPT14RA respectively once stocks of the MP12RB and MP14RB are sold, these compressors are no longer available.

\*Note: MS34TB is limited to a lower evaporating temperature of -15°C

### R290 LOW BACK PRESSURE (7) -40°C TO -10°C EVAPORATING

UNC338	ND36AA	1/12	3.6	127	433	C	S	TBA
UNC340	NLY45LAa	1/6	4.6	205	699	C/V	F	116.24
UNC347	NLY60LAa	1/5	6.0	236	805	C/V	F	117.31
UNC352	NLY80LAa	1/4	8.1	356	1,215	C/V	F	155.00
UNC356	NLY90LAa	1/3	9.1	413	1,409	C/V	F	160.70
UNC362	NPY12LAa	3/8	10.7	488	1,665	C/V	F	164.67
UNC364	NP14FB	1/2	14.2	523	1,784	C/V	F	146.37
UNC366	NPY14LAa	1/2	14.3	651	2,221	C/V	F	184.05
UNC368	NPT16LA	1/2	16.2	756	2,579	C/V	F	189.30
UNC370	NX18FBa	5/8	18.4	820	2,798	C/V	F	293.10
UNC372	NX21FBa	3/4	20.7	907	3,095	C/V	F	298.55
UNC374	NX23FB	7/8	23.2	1,002	3,419	C/V	F	322.12

### R290 HIGH BACK PRESSURE (8) -25°C TO +10°C EVAPORATING

UNC272	NL45TBb	1/5	4.1	518	1,767	C/V	F	120.54
UNC275	NLY45RAa	1/5	4.6	616	2,102	C/V	F	137.80
UNC279	NLY60RAa	1/4	6.0	837	2,856	C/V	F	144.50
UNC282	NLY80RAa	3/8	8.1	1,111	3,791	C/V	F	151.25
UNC285	NLY90RAa	3/8	9.1	1,256	4,285	C/V	F	158.66
UNC287	NPY12RAa	1/2	12.1	1,745	5,954	C/V	F	177.55
UNC290	NP14TB	1/2	14.1	1,803	6,152	C/V	F	166.82
UNC291	NPT14RAa	1/2	14.3	2,065	7,046	C/V	F	182.80
UNC292	NX18TB	3/4	18.4	2,448	8,353	C/V	F	287.55
UNC294	NX21TBa	7/8	20.7	2,714	9,260	C/V	F	292.50

R290 compressors now available from stock, no minimum order quantity.

Note: The NP14TB will be replaced by the NPT14RAa, once stocks of the NP14TB are sold, this compressor will no longer be available.

## COMPRESSORS

**cubigel**  
compressors



Capacity at Cond. +55°C

7) Evap. -23°C

8) Evap. +7.2°C

All models 230V. 1.50Hz.

Models designated -V have suction valve fitted.

T models do not, nor do models with no suffix.

## R134A LOW BACK PRESSURE (7) -35°C TO -10°C EVAPORATING

CODE	MODEL	APPROX HP	C.C	CAPACITY		CONTROL	COOLING	(KF) LIST EA
				WATTS	BTU/HR			
UNC917	GD36AA	1/12	3.6	84	287	C	S	110.09
UNC920	GD40AA	1/10	4.1	95	324	C	S	120.77
UNC933	GL45AAa	1/8	4.6	112	382	C	S	124.64
UNC935	GLY45AAa	1/8	4.6	121	413	C	S	128.02
UNC939	GL60AAa	1/6	6.0	147	502	C	S	134.70
UNC942	GL70AA	1/5	7.0	165	563	C	S	141.08
UNC943	GLY60AAa	1/6	6.0	162	553	C	S	138.82
UNC945	GL80AAa	1/5	8.1	198	676	C	S	147.41
UNC953	GL90AAa	1/4	9.1	225	768	C	S	147.61
UNC960	GL99AAa	1/4	9.9	238	812	C	S	169.56
UNC961	GP12FB	1/3	12.1	262	894	C/V	F	167.95
UNC963	GP14CB	3/8	14.2	314	1071	C/V	F	175.00
UNC962	GP14FB	3/8	14.2	314	1071	C/V	F	176.23
UNC906	GP16CB	3/8	16.2	366	1249	C/V	F	188.78
UNC908	GP16FB	3/8	16.2	366	1249	C/V	F	212.93
UNC910	GX18FB	5/8	18.0	401	1368	C/V	F	267.72
UNC909	GPY16LAa	3/8	16.2	419	1430	C/V	F	195.95
UNC911	GX21FB	2/3	20.7	483	1648	C/V	F	273.99

Note: The GL70AA and GX18FB compressors are replaced by the GLY60AAa and the GPY16LAa respectively once stocks of the GL70AA and GX18FB are sold, these compressors are no longer available.

## R134A MEDIUM/HIGH BACK PRESSURE (8) -25°C TO +10°C EVAPORATING

UNC994	GB36MBd	1/10	3.6	314	1071	C/V	F	121.30
UNC995	GD40MBd	1/8	4.1	361	1232	C/V	F	121.38
UNC968	GL45TB	1/6	4.5	409	1396	C/V	F	122.63
UNC969	GL60PB	1/5	5.7	523	1784	C	F	124.53
UNC970	GL60TB	1/5	5.7	523	1784	C/V	F	132.12
UNC971	GL80PB	1/5	7.6	663	2262	C	F	129.14
UNC972	GL80TB	1/5	7.6	663	2262	C/V	F	140.92
UNC973	GL90PB	1/4	8.9	791	2699	C	F	133.74
UNC974	GL90TB	1/4	8.9	791	2699	C/V	F	146.71
UNC999	GL11TB	3/8	11.0	977	3334	C/V	F	150.68
UNC975	GP12PB	3/8	12.1	1070	3651	C	F	167.70
UNC976	GP12TB	3/8	12.1	1070	3651	C/V	F	167.70
UNC261	GLY12RAa*	3/8	10.7	1047	3572	C/V	F	163.45
UNC978	GP14TB	3/8	14.2	1198	4088	C/V	F	169.57
UNC981	GP16TB	3/8	16.2	1442	4920	C/V	F	178.84
UNC263	GX18TB	1/2	18.4	1663	5674	C/V	F	242.67
UNC267	GPT18RA	1/2	18.0	1739	5933	C/V	F	226.46
UNC266	GX21TB	5/8	20.7	1855	6329	C/V	F	256.11
UNC268	GX23TB	5/8	23.2	2070	7063	C/V	F	280.25
UNC986	GS26TB-T	3/4	25.9	2489	8492	C/V	F	308.60
UNC987	GS26TB-V	3/4	25.9	2489	8492	C/V	F	343.95
UNC989	GS30TB-V	7/8	30.0	2966	10120	C/V	F	400.60
UNC990	GS34TB-T	1	34.4	3409	11632	C/V	F	373.79
UNC991	GS34TB-V	1	34.4	3409	11632	C/V	F	387.37

\*GLY12RAa is limited to a lower evaporating temperature of -15°C.

Cubigel compressors were previously known as Electrolux and ACC.  
Now Huayi Compressor Barcelona.

## AIR COOLED CONDENSING UNITS

**cubigel**  
compressors



Electrolux Condensing Units are supplied electrics, copper/aluminium condensers and receivers on expansion valve application models.

### R134A MEDIUM/HIGH BACK PRESSURE -25°C TO +10°C EVAPORATING

CODE	MODEL	APPROX HP	CAPACITY WATTS		CONTROL	RECEIVER (LITRE)	CONNECTIONS		HOUSING SIZE	(BE) LIST EA
			0°C	-15°C			SUCT.	LIQ.		
UNU967	CGL45PB2	1/6	346	184	C	-	3/8	1/4	5	201.11
UNU968	CGL45TB3	1/6	346	184	C/V	1.0	3/8	1/4	5	231.51
UNU969	CGL60PB2	1/5	435	232	C	-	3/8	1/4	5	212.80
UNU970	CGL60TB3	1/5	435	232	C/V	1.2	3/8	1/4	5	238.79
UNU972	CGL80TB3	1/4	532	285	C/V	1.2	3/8	1/4	5	240.68
UNU974	CGL90TB3	1/4	647	342	C/V	1.2	3/8	1/4	5	254.97
UNU975	CGP12PB2	3/8	851	449	C	-	3/8	1/4	2 or 5	254.21
UNU976	CGP12TB3	3/8	851	449	C/V	1.2	3/8	1/4	2 or 5	269.73
UNU978	CGP14TB3	3/8	941	499	C/V	1.2	3/8	1/4	2 or 5	315.36
UNU980	CGPY16RA3	3/8	1,210	641	C/V	1.3	3/8	3/8	2 or 5	345.61
UNU981	CGX18TB3	5/8	1,229	653	C/V	1.3	3/8	3/8	2 or 5	421.86
UNU983	CGX21TB3	2/3	1,438	778	C/V	1.5	3/8	3/8	2 or 5	436.70
UNU985	CGX23TB3	2/3	1,597	907	C/V	1.5	3/8	3/8	3 or 5	446.70
UNU987	CGS26TB3	3/4	1,845	991	C/V	2.5	5/8r	3/8r	3 or 5	456.57
UNU989	CGS30TB3	7/8	2,199	1,136	C/V	2.5	5/8r	3/8r	3 or 5	498.81
UNU991	CGS34TB3	1	2,381	1,285	C/V	2.5	5/8r	3/8r	3 or 5	525.66

### R404A LOW BACK PRESSURE -40°C TO -10°C EVAPORATING

UNU802	CML90FB3	1/3	-	592	C/V	1.0	3/8	1/4	5	260.48
UNU804	CMP12FB3	3/8	-	815	C/V	1.0	3/8	1/4	5	302.93
UNU805	CMP14FB3	1/2	-	852	C/V	1.0	3/8	1/4	5	309.43
UNU806	CMPT14LA3	1/2	-	955	C/V	1.1	3/8	3/8	2 or 5	300.23
UNU807	CMX18FB3	5/8	-	1,121	C/V	1.3	3/8	3/8	2 or 5	445.86
UNU809	CMX21FB3	5/8	-	1,370	C/V	1.5	3/8	3/8	2 or 5	448.71
UNU812	CMX23FB3	2/3	-	1,541	C/V	1.5	3/8	3/8	2 or 5	451.46
UNU813	CMS26FB3	3/4	-	1,921	C/V	2.5	1/2r	3/8r	3 or 5	470.79
UNU815	CMS30FB3	7/8	-	2,054	C/V	2.5	5/8r	3/8r	3 or 5	489.98
UNU817	CMS34FB3	1	-	2,370	C/V	2.5	5/8r	3/8r	3 or 5	509.10

#### Nomenclature

Control: C = Capillary  
V = Expansion Valve

Capacity at Ambient +32°C.

Electrical Supply.

All models 230V. 1.50Hz.

CMX21TB3L and CMS26TB3L are fitted with a low profile condenser limited to 32°C max ambient.

CMS34TB3 is limited to a lowest evaporating temperature of -15°C.

TB3W are twin fan, low profile.

Condensing units for R290 on request.

### R404A/R407C MEDIUM/HIGH BACK PRESSURE -25°C TO +10°C EVAPORATING

UNU834	CML45TB3	1/5	539	328	C/V	1.0	3/8	1/4	5	243.03
UNU836	CML60TB3	1/4	673	409	C/V	1.0	3/8	1/4	5	265.52
UNU838	CML80TB3	3/8	933	567	C/V	1.3	3/8	1/4	2 or 5	272.57
UNU840	CML90TB3	3/8	1,062	646	C/V	1.3	3/8	3/8r	2 or 5	286.77
UNU842	CMP12TB3	1/2	1,492	899	C/V	2.5	3/8	3/8r	3 or 5	390.87
UNU844	CMP14TB3	5/8	1,614	973	C/V	2.5	3/8	3/8r	3 or 5	419.30
UNU846	CMX18TB3	3/4	1,877	1,206	C/V	2.5	3/8	3/8	3 or 5	481.22
UNU864	CMX21TB3	7/8	2,099	1,308	C/V	2.5	3/8	3/8r	6	536.76
UNU865	CMX21TB3L	7/8	1,854	1,164	C/V	2.5	1/2r	3/8r	3 or 5	464.99
UNU857	CMS22TB3	1	2,323	1,355	C/V	2.4	1/2	3/8	6	552.73
UNU851	CMS26TB3	1	3,023	1,855	C/V	2.5	1/2r	3/8r	6	619.05
UNU852	CMS26TB3L	1	3,023	1,855	C/V	2.5	1/2r	3/8r	3 or 5	500.47
UNU858	CMS26TB3W	1	2,983	1,836	C/V	2.5	5/8r	3/8r	-	655.56
UNU853	CMS34TB3	1.5/8	3,985	2,424	C/V	2.5	5/8	3/8	6	638.59
UNU859	CMS34TB3W	1.5/8	3,705	2,237	C/V	2.5	5/8r	3/8r	-	682.81

### WEATHERPROOF HOUSINGS FOR CUBIGEL UNITS

CODE	OVERALL SIZE (MM)	TYPE	(KG) £ EA
UUH002	SIZE 2 – 550 l x 390 w x 350 h	Basic model	69.00
UUH003	SIZE 3 – 550 l x 485 w x 390 h	Basic model	69.00
UUH005	SIZE 5 – 610 l x 475 w x 390 h	De luxe model	180.00
UUH006	SIZE 6 – 610 l x 475 w x 465 h	De luxe model	190.00

Cubigel compressors were previously known as Electrolux and ACC.  
Now Huayi Compressor Barcelona.

HOUSED CONDENSING  
UNITS

Silent & Efficient  
**SILENTO**  
CONDENSING UNITS



## MEDIUM BACK PRESSURE -15°C TO +5°C RECIPROCATING COMPRESSOR, R404A

CODE	MODEL	APPROX HP	C.C	CAPACITY (WATTS)	NOISE LEVEL	SUPPLY	£ (NG) LIST EA
CSU005	SI-CMPT12RA	3/8	12.1	966	33	230.1	1,020.00
CSU010	SI-CMPT14RA	1/2	14.3	1,136	33	230.1	1,050.00
CSU015	SI-CMS22TB	1	21.7	1,671	33	230.1	1,094.00
CSU020	SI-CMS22T3	1	21.7	1,637	33	400.3	1,123.00
CSU025	SI-CMS26TB	1 3/8	25.9	2,074	33	230.1	1,167.00
CSU030	SI-CMS26T3	1 3/8	25.9	2,025	33	400.3	1,167.00
CSU035	SI-CMS34TB	1 5/8	34.4	2,736	33	230.1	1,167.00
CSU040	SI-CMS34T3	1 5/8	34.4	2,701	33	400.3	1,240.00

Capacities are quoted at -10°C evap, condensing 45°C according to EN 12900  
Noise level measured at 10m free-field

## LOW BACK PRESSURE -35°C TO -20°C RECIPROCATING COMPRESSOR, R404A

CODE	MODEL	APPROX HP	C.C	CAPACITY (WATTS)	NOISE LEVEL	SUPPLY	£ (NG) LIST EA
CSU100	SI-CMPT12LA	3/8	12.1	420	33	230.1	992.00
CSU105	SI-CMS26FB	3/4	25.9	756	33	230.1	1,167.00
CSU110	SI-CMS26F3	3/4	25.9	677	33	400.3	1,167.00
CSU115	SI-CMS34FB	1	34.4	1,005	33	230.1	1,240.00
CSU120	SI-CMS34F3	1	34.4	994	33	400.3	1,240.00

Capacities are quoted at -30°C evap, condensing 45°C according to EN 12900  
Noise level measured at 10m free-field.

All units include low and high pressure gauges, high and low pressure switch, liquid line drier and sight glass, 6 pole low noise condenser fan, liquid and suction line valves, liquid receiver with shut off valve and an oil separator (low temperature units only).

Standard unit housing dimensions over the whole range, these are 880mm (W), 410mm (L) and 530mm (H).

COMPRESSOR  
ACCESSORIES

## ELECTRICS - SINGLE PHASE

CODE	DESCRIPTION	(KG) £ NET
UNS861	SPARE ELECTRICS IN TERMINAL BOX (NO O/LOAD) GS26TB	56.74
UNS862	SPARE ELECTRICS IN TERMINAL BOX (NO O/LOAD) P12TN	56.74
UNS863	SPARE ELECTRICS IN TERMINAL BOX (NO O/LOAD) GS30TB	56.74
UNS864	SPARE ELECTRICS IN TERMINAL BOX (NO O/LOAD) GS34TB	56.74
UNS865	SPARE ELECTRICS IN TERMINAL BOX (NO O/LOAD) MR18FB/TB	56.74
UNS866	SPARE ELECTRICS IN TERMINAL BOX (NO O/LOAD) MR22TB	56.74
UNS867	SPARE ELECTRICS IN TERMINAL BOX (NO O/LOAD) MS26TB	56.74
UNS868	SPARE ELECTRICS IN TERMINAL BOX (NO O/LOAD) S26TN	56.74
UNS869	SPARE ELECTRICS IN TERMINAL BOX (NO O/LOAD) MS26FB	56.74
UNS870	SPARE ELECTRICS IN TERMINAL BOX (NO O/LOAD) MS34FB	56.74

## VALVES

UNS820	1/2" FL x 3/4" SUCTION VALVE (R & S BODIES)	20.49
UNS822	5/8" FL x 1" SUCTION VALVE (R & S BODIES)	20.49
UUS205	3/8" FL x 1" SUCTION VALVE CONDENSING UNITS	35.77
UUS210	3/8" FL x 1" RECEIVER VALVE	35.00

## EVAPORATOR TRAYS

CODE	SUITABILITY	(KG) £ NET
UNS896	GD COMPRESSORS	10.40
UNS897	GL COMPRESSORS	10.40

## SNAP-ON FEET

UNS899	D, L AND P (SET OF 4)	2.28
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## COMPRESSORS



Capacity at Cond. +55°C  
 7) Evap. -23.3°C  
 8) Evap. +7.2°C  
 All models 230v, 1.50Hz.  
 Models ending -V have suction  
 valve fitted.

### R404A LOW BACK PRESSURE (7) -40°C TO -10°C EVAPORATING

CODE	MODEL	APPROX HP	C.C	CAPACITY		CONTROL	COOLING	(KJ) LIST EA
				WATTS	BTU/HR			
EAC721	NEK2134GK	1/2	8.78	464	1,583	C/V	F	124.44
EAC724	NEK2150GK	5/8	12.1	616	2,102	C/V	F	142.80
EAC727	NEK2168GK	3/4	14.3	704	2,402	C/V	F	158.10
EAC733	NT2178GK	7/8	17.4	788	2,689	C/V	F	199.92
EAC739	NT2180GK	1	20.4	934	3,187	C/V	F	209.10
EAC745	NT2192GK CSR	1.1/4	22.4	1,088	3,712	C/V	F	221.34
EAC747	NJ2192GK-V CSR	1.1/4	22.4	1,088	3,712	C/V	F	261.12
EAC751	NJ2212GK CSR	1.1/2	34.3	1,477	5,040	C/V	F	265.20
EAC752	NJ2212GK-V CSR	1.1/2	34.3	1,477	5,040	C/V	F	280.50

### R404A HIGH/MEDIUM BACK PRESSURE (8) -20°C TO +10°C EVAPORATING

EAC812	NEK6165GK	1/4	6.2	965	3,293	C/V	F	104.04
EAC815	NEK6181GK	1/4	7.3	1,089	3,716	C/V	F	106.08
EAC818	NEK6210GK	1/3	8.7	1,303	4,446	C/V	F	111.18
EAC821	NEK6213GK	1/2	12.1	1,750	5,971	C/V	F	115.26
EAC827	NT6220GK CSR	5/8	14.5	2,119	7,230	C/V	F	213.18
EAC830	NT6222GK CSR	7/8	17.4	2,500	8,530	C/V	F	219.30
EAC833	NT6224GK CSR	1	20.4	3,512	11,983	C/V	F	230.52
EAC836	NT6226GK CSR	1	22.4	3,355	11,447	C/V	F	253.98
EAC840	NJ9226GK-V CSR	1	21.7	3,249	11,086	C/V	F	274.42
EAC842	NJ9232GK CSR	1.1/4	26.2	4,021	13,720	C/V	F	265.20
EAC843	NJ9232GK-V CSR	1.1/4	26.2	4,021	13,720	C/V	F	280.50
EAC845	NJ9238GK CSR	1.1/2	32.7	4,827	16,470	C/V	F	267.24

### R134A LOW BACK PRESSURE (7), -30°C TO -5°C EVAPORATING

EAC627	NE2130Z	1/3	12.1	344	1,174	C/V	F	144.84
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### R134A HIGH/MEDIUM BACK PRESSURE (8), -15°C TO +10°C

EAC909	EMT6144Z	1/5	5.2	570	1,945	C/V	F	81.60
EAC915	EMT6170Z	1/4	7.6	806	2,750	C/V	F	96.90
EAC918	NEK6160Z	1/4	8.4	716	2,443	C/V	F	95.50
EAC921	NEK6170Z	1/4	8.4	837	2,856	C/V	F	97.92
EAC924	NEK6187Z	1/3	10.0	967	3,299	C/V	F	101.15
EAC927	NEK6210Z	1/3	12.1	1,140	3,890	C/V	F	129.54
EAC930	NEK6212Z	1/2	14.3	1,292	4,408	C/V	F	130.56
EAC933	NEK6214Z	1/2	16.8	1,486	5,070	C/V	F	166.26
EAC936	NT6215Z	5/8	17.4	1,608	5,486	C/V	F	189.72
EAC939	NT6220Z	3/4	22.4	2,016	6,879	C/V	F	237.66
EAC942	NJ6226Z CSR	1	34.3	2,969	10,130	C/V	F	298.82

Unless otherwise indicated, all compressors are CSIR start.  
 Models ending in -V are fitted with a suction valve, all other models have a suction stub.

## COPELAND SCROLL COMPRESSORS



With Rotalock threaded stubs, oil  
 sightglass and ester oil.

CODE	MODEL	SUPPLY	(WW) LIST EA
KDS930	ZB15K*E-PFJ-551	230.1	PRICE ON APPLICATION
KDS940	ZB15K*E-TFD-551	400.3	
KDS931	ZB19K*E-PFJ-551	230.1	
KDS942	ZB19K*E-TFD-551	400.3	
KDS932	ZB21K*E-PFJ-551	230.1	
KDS944	ZB21K*E-TFD-551	400.3	
KDS934	ZB26K*E-PFJ-551	230.1	
KDS946	ZB26K*E-TFD-551	400.3	
KDS936	ZB30K*E-TFD-551	400.3	
KDS938	ZB38K*E-TFD-551	400.3	
KDS947	ZB45K*E-TFD-551	400.3	
KDS980	ZF09 K4E	400.3	
KDS982	ZF11 K4E	400.3	
KDS984	ZF13 K4E	400.3	
KDS986	ZF15 K4E	400.3	
KDS988	ZF18 K4E	400.3	



**HOUSED LOW NOISE SCROLL CONDENSING UNITS**



Copeland scroll compressor, crankcase heater, fan speed control, liquid receiver, drier, sightglass, adjust. HP/LP, liquid and suction line valves, external mains isolator, compressor contactor and overload. Powder coated galvanised steel housing (ivory).

Blue Fin anti-corrosion coated condenser coil.

Duty at 32°C ambient. Noise level dB(A) @ 10m free field.

Extended warranty: see inside back cover.

For wall brackets see page 53.

**R404A- MEDIUM TEMPERATURE SCROLL UNITS, -20°C TO +10°C, ALSO SUITABLE FOR R134A**

CODE	MODEL	CAPACITY (WATTS) - EVAPORATING TEMPERATURE							SUPPLY	NOISE LEVEL	(WJ) £ LIST EA
		10	5	0	-5	-10	-15	-20			
KDS095	1PAL015M1	4,893	4,200	3,550	3,000	2,495	2,015	1,650	230.1	32	974.00
KDS100	1PAL020M1	6,800	5,800	4,950	4,150	3,450	2,815	2,260	230.1	32	1,072.00
KDS102	1PAL020M3	6,800	5,800	4,950	4,150	3,450	2,815	2,260	400.3	32	1,048.00
KDS105	1PAL025M1	7,900	6,800	5,850	4,950	4,150	3,450	2,820	230.1	32	1,084.00
KDS107	1PAL025M3	7,900	6,800	5,850	4,950	4,150	3,450	2,820	400.3	32	1,059.00
KDS110	1PAL030M1	9,600	8,250	7,100	6,000	5,000	4,150	3,400	230.1	39	1,169.00
KDS112	1PAL030M3	9,600	8,250	7,100	6,000	5,000	4,150	3,400	400.3	39	1,143.00
KDS121	1PAL036M1	11,300	9,750	8,350	7,000	5,900	4,900	4,000	230.1	39	1,306.00
KDS123	1PAL036M3	11,300	9,750	8,350	7,000	5,900	4,900	4,000	400.3	39	1,276.00
KDS135	1PAL040M3	12,640	10,850	9,350	7,960	6,660	5,550	4,560	400.3	39	1,380.00
KDS145	2PAL050M3	15,900	13,650	11,800	10,050	8,400	7,000	5,750	400.3	40	1,492.00
KDS150	2PAL075M3	20,900	17,950	15,300	13,100	11,100	9,210	7,580	400.3	40	1,871.00
KDS155	2PAL100M3	31,400	27,400	23,800	20,100	17,000	14,050	11,500	400.3	40	2,705.00
KDS185	PAUP050M3	15,900	13,650	11,800	10,050	8,400	7,000	5,750	400.3	40	1,492.00

**R407F- MEDIUM TEMPERATURE SCROLL UNITS, -15°C TO +5°C, ALSO SUITABLE FOR R134A**

CODE	MODEL	CAPACITY (WATTS) - EVAPORATING TEMPERATURE							SUPPLY	NOISE LEVEL	(WJ) £ LIST EA
		7	5	0	-5	-10	-15	-20			
KDS100	1PAL020M1	-	5,800	4,580	4,050	3,350	2,740	-	230.1	32	1,072.00
KDS102	1PAL020M3	-	5,800	4,580	4,050	3,350	2,740	-	400.3	32	1,048.00
KDS105	1PAL025M1	-	6,650	5,650	4,700	3,900	3,150	-	230.1	32	1,084.00
KDS107	1PAL025M3	-	6,650	5,650	4,700	3,900	3,150	-	400.3	32	1,059.00
KDS110	1PAL030M1	-	8,450	7,150	5,950	4,900	3,950	-	230.1	39	1,169.00
KDS112	1PAL030M3	-	8,450	7,150	5,950	4,900	3,950	-	400.3	39	1,143.00
KDS121	1PAL036M1	-	9,600	8,050	6,700	5,550	4,550	-	230.1	39	1,306.00
KDS123	1PAL036M3	-	9,600	8,050	6,700	5,550	4,550	-	400.3	39	1,276.00
KDS135	1PAL040M3	-	10,700	9,000	7,550	6,250	5,100	-	400.3	39	1,380.00
KDS145	2PAL050M3	-	14,000	11,950	10,050	8,350	6,900	-	400.3	40	1,492.00
KDS150	2PAL075M3	-	18,400	15,600	13,150	10,900	8,800	-	400.3	40	1,871.00
KDS155	2PAL100M3	-	28,500	24,400	20,400	16,850	13,500	-	400.3	40	2,705.00
KDS185	PAUP050M3	-	14,000	11,950	10,050	8,350	6,900	-	400.3	40	1,492.00

**R404A- LOW TEMPERATURE SCROLL UNITS, -10°C TO -40°C**

CODE	MODEL	CAPACITY (WATTS) - EVAPORATING TEMPERATURE							SUPPLY	NOISE LEVEL	(WH) £ LIST EA
		-10	-15	-20	-25	-30	-35	-40			
KDS250	1PAL030L3	4,850	4,050	3,350	2,740	2,220	1,770	1,380	400.3	39	1,634.00
KDS255	1PAL035L3	5,800	4,850	4,050	3,350	2,735	2,200	1,730	400.3	39	1,650.00
KDS260	1PAL040L3	6,850	5,750	4,800	3,900	3,150	2,500	1,940	400.3	39	1,693.00
KDS265	2PAL050L3	8,450	7,100	5,900	4,850	3,900	3,100	2,375	400.3	40	1,830.00
KDS270	2PAL060L3	9,750	8,150	6,800	5,650	4,600	3,700	2,900	400.3	40	1,932.00
KDS275	2PAL075L3	11,850	10,000	8,400	6,950	5,650	4,550	3,500	400.3	40	2,811.00
KDS285	PAUP050L3	8,450	7,100	5,900	4,850	3,900	3,100	2,375	400.3	40	1,830.00
KDS290	PAUP060L3	9,750	8,150	6,800	5,650	4,600	3,700	2,900	400.3	40	1,931.00

**R407F- LOW TEMPERATURE SCROLL UNITS, -20°C TO -40°C**

CODE	MODEL	CAPACITY (WATTS) - EVAPORATING TEMPERATURE					SUPPLY	NOISE LEVEL	(WH) £ LIST EA
		-20	-25	-30	-35	-40			
KDS250	1PAL030L3	3,150	2,580	2,040	1,585	1,280	400.3	39	1,634.00
KDS255	1PAL035L3	3,950	3,200	2,540	1,980	1,595	400.3	39	1,650.00
KDS260	1PAL040L3	4,620	3,720	2,930	2,290	1,850	400.3	39	1,693.00
KDS265	2PAL050L3	5,550	4,330	3,510	2,790	2,300	400.3	40	1,830.00
KDS270	2PAL060L3	6,600	5,350	4,250	3,400	2,765	400.3	40	1,932.00
KDS275	2PAL075L3	8,270	6,720	5,360	4,250	3,480	400.3	40	2,811.00
KDS285	PAUP050L3	5,550	4,330	3,510	2,790	2,300	400.3	40	1,830.00
KDS290	PAUP060L3	6,600	5,350	4,250	3,400	2,765	400.3	40	1,931.00

## HOUSED LOW NOISE HERMETIC CONDENSING UNITS



1

Specifications as KD Scroll but fitted with Danfoss (PAD) and Maneurop (1PAD, 2PAD) reciprocating compressors. Oil separator on LT models.



### R404A- MEDIUM TEMPERATURE HERMETIC UNITS, -20°C TO +5°C

CODE	MODEL	CAPACITY (WATTS) - EVAPORATING TEMPERATURE						SUPPLY	NOISE LEVEL	(WJ) £ LIST EA
		5	0	-5	-10	-15	-20			
KDU020	PAD005M1	1,372	1,271	1,040	859	701	564	230.1	33	628.00
KDU030	PAD008M1	2,002	1,691	1,442	1,191	987	805	230.1	33	657.00
KDU035	PAD010M1	2,486	2,127	1,767	1,475	1,215	983	230.1	33	685.00
KDU040	PAD012M1	3,736	3,159	2,689	2,218	1,827	1,473	230.1	33	798.00

### R134A-MEDIUM TEMPERATURE HERMETIC UNITS, -20°C TO +5°C

KDU045	PAC012M1	2,600	2,172	1,780	1,431	1,122	848	230.1	33	805.00
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### R404A-LOW TEMPERATURE HERMETIC UNITS, -20°C TO -45°C

CODE	MODEL	CAPACITY (WATTS) - EVAPORATING TEMPERATURE						SUPPLY	NOISE LEVEL	(WJ) £ LIST EA
		-20	-25	-30	-35	-40	-45			
KDU410	PAD016L1	1,888	1,528	1,207	931	688	491	230.1	33	1,058.00
KDU430	1PAD018L1	2,406	1,876	1,401	1,007	675	403	230.1	38	1,236.00
KDU432	1PAD018L3	2,406	1,876	1,401	1,007	675	403	400.3	38	1,220.00
KDU435	1PAD023L1	3,494	2,811	2,197	1,640	1,182	793	230.1	40	1,263.00
KDU437	1PAD023L3	3,494	2,811	2,197	1,640	1,182	793	400.3	40	1,246.00
KDU442	1PAD035L3	4,433	3,472	2,644	1,923	1,370	963	400.3	44	1,399.00
KDU452	1PAD050L3	6,291	4,972	3,893	2,911	2,120	1,502	400.3	45	1,594.00
KDU457	2PAD075L3	9,712	7,694	6,032	4,558	3,227	2,166	400.3	46	2,732.00
KDU462	2PAD100L3	13,411	10,815	8,479	6,431	4,643	3,202	400.3	46	3,182.00

Please note that the above hermetic low temperature units are not approved for use with R407A/R407F.

### REFRIGERATION CASSETTE STYLE COOLER - COOL-PREP

CODE	MODEL	CAPACITY (WATTS)		AIR FLOW M <sup>3</sup> /HR	CONNECTIONS		NO. OF FANS	TXV EQUAL	(BF) £ LIST EA
		(3)	(4)		INLET	OUTLET			
KEV200	CHW057H	3,661	3,639	2,520	1/2"	7/8"	1	EXT	1,230.00
KEV205	CHW087H	5,544	5,521	2,580	5/8"	1.1/8"	1	EXT	1,418.00
KEV210	CHW115H	6,196	6,166	3,240	5/8"	1.1/8"	2	EXT	1,565.00
KEV215	CHW131H	7,355	7,280	3,900	5/8"	1.1/8"	2	EXT	1,623.00

Capacities (3) TL1 = 12°C, DT1 = 7K, R404A, (4) TL1 = 8°C, DT1 = 7K, R404A. Fin spacing is 4.2mm for all models.

These coolers can be matched with the KD Scroll/Hermetic low noise housed unit for complete packaged systems as follows:

COOLER MODEL	DUTY @ +12°C	KD UNIT
CHW-057H	3,661	PAD012M1
CHW-087H	5,544	1PAL020M1
CHW-115H	6,196	1PAL025M1
CHW-131H	7,355	1PAL025M1

Based on R404A with an ambient of 32°C.

**HOUSED LOW NOISE FUSION CONDENSING UNITS**



Units with pre-fix JEHR use Tecumseh compressors, units with pre-fix JEH2 use Maneurop compressors.

Maneurop or Tecumseh compressor,\* crankcase heater,\* liquid receiver, drier, sightglass, HP/LP, rotalock valves, electrical isolator,\* IP55 panel, fan speed control.\*

Oil sep on low temp models.\*

Blue Fin anti-corrosion coated condenser coil.

Duty at 32°C ambient, R404A. For wall brackets see page 53.

Noise levels in dB(A) at 10m.

Extended warranty: see inside back cover.

\*MLU050, 055 and 250 not fitted with these items and compressors are Danfoss SC.

**MEDIUM TEMPERATURE 10°C TO -15°C - RECIPROCATING COMPRESSOR, R404A**

CODE	MODEL	CAPACITY (WATTS) - EVAPORATING TEMPERATURE						SUPPLY	NOISE LEVEL	(WG) £ LIST EA
		10	5	0	-5	-10	-15			
MLU040	JEHR-0050-B1-M-1	1,962	1,639	1,359	1,116	910	733	230.1	30	570.00
MLU057	JEHR-0067-B1-M-1	2,712	2,244	1,847	1,497	1,225	948	230.1	30	616.00
MLU065	JEHR-0100-B1-M-1	3,100	2,593	2,148	1,760	1,495	1,134	230.1	30	650.00
MLU070	JEHR-0113-B1-M-1	3,746	3,149	2,616	2,143	1,761	1,362	230.1	30	725.00
MLU080	JEHR-0140-B2-M-1	4,934	4,096	3,376	2,756	2,220	1,762	230.1	34	871.00
MLU082	JEHR-0140-B2-M-3	4,934	4,096	3,376	2,759	2,220	1,762	400.3	34	871.00
MLU090	JEHR-0150-B2-M-1	5,536	4,556	4,048	2,956	2,312	1,763	230.1	37	975.00
MLU092	JEHR-0150-B2-M-3	5,536	4,556	4,048	2,956	2,312	1,763	400.3	37	975.00
MLU115	JEH2-0400-M-3	-	11,819	9,870	8,106	6,527	5,133	400.3	37	1,369.00
MLU120	JEH2-0500-M-3	-	14,026	11,819	9,818	8,021	6,430	400.3	40	1,410.00
MLU135	JEH2-0825-M-3	-	18,614	15,904	13,370	11,010	8,826	400.3	42	2,397.00
MLU140	JEH2-1000-M-3	-	21,115	18,476	15,947	13,528	11,219	400.3	42	2,681.00

**MEDIUM TEMPERATURE 10°C TO -15°C - RECIPROCATING COMPRESSOR, R407F**

MLU040	JEHR-0050-B1-M-1	2,195	1,776	1,423	1,126	885	-	230.1	30	570.00
MLU057	JEHR-0067-B1-M-1	3,034	2,432	1,934	1,510	1,187	-	230.1	30	616.00
MLU065	JEHR-0100-B1-M-1	3,469	2,810	2,249	1,775	1,449	-	230.1	30	650.00
MLU070	JEHR-0113-B1-M-1	4,191	3,412	2,739	2,162	1,706	-	230.1	30	725.00
MLU080	JEHR-0140-B2-M-1	5,521	4,439	3,534	2,780	2,151	-	230.1	34	871.00
MLU082	JEHR-0140-B2-M-3	5,521	4,439	3,534	2,780	2,151	-	400.3	34	871.00
MLU090	JEHR-0150-B2-M-1	-	4,240	3,500	2,800	2,240	1,600	230.1	37	975.00
MLU092	JEHR-0150-B2-M-3	-	4,240	3,500	2,800	2,240	1,600	400.3	37	975.00
MLU115	JEH2-0400-M-3	-	10,280	10,060	8,240	6,590	5,100	400.3	37	1,369.00
MLU120	JEH2-0500-M-3	-	14,570	12,210	10,060	8,040	6,270	400.3	40	1,410.00
MLU135	JEH2-0825-M-3	-	19,710	16,850	14,090	11,450	-	400.3	42	2,397.00
MLU140	JEH2-1000-M-3	-	-	20,450	17,170	14,130	-	400.3	42	2,681.00

**MEDIUM TEMPERATURE 5°C TO -15°C - SCROLL COMPRESSOR, R404A**

MLU403	JEHS-0200-B2-M-1	6,970	5,920	5,000	4,190	3,490	2,880	230.1	33	1,106.00
MLU407	JEHS-0200-B2-M-3	6,970	5,920	5,000	4,190	3,490	2,880	400.3	33	1,106.00
MLU409	JEHS-0250-B2-M-1	8,260	7,020	5,950	5,020	4,210	3,530	230.1	36	1,145.00
MLU411	JEHS-0250-B2-M-3	8,260	7,020	5,950	5,020	4,210	3,530	400.3	36	1,145.00
MLU417	JEHS-0300-B2-M-1	9,470	8,070	6,850	5,800	4,890	4,110	230.1	36	1,193.00
MLU418	JEHS-0300-B2-M-3	9,470	8,070	6,850	5,800	4,890	4,110	400.3	36	1,193.00
MLU422	JEHS-0350-B2-M-1	10,300	8,840	7,570	6,440	5,460	4,610	230.1	40	1,285.00
MLU424	JEHS-0350-B2-M-3	10,300	8,840	7,570	6,440	5,460	4,610	400.3	40	1,285.00
MLU420	JEHS-0350-M-1	-	10,040	8,500	7,100	5,900	4,850	230.1	35	1,482.00
MLU421	JEHS-0350-M-3	-	10,040	8,500	7,100	5,900	4,850	400.3	35	1,430.00
MLU425	JEHS-0400-M-1	-	11,298	9,590	8,040	6,690	5,500	230.1	34	1,559.00
MLU426	JEHS-0400-M-3	-	11,298	9,590	8,040	6,690	5,500	400.3	34	1,527.00
MLU431	JEHS-0500-M-3	-	13,420	11,450	9,650	8,050	6,650	400.3	35	1,570.00
MLU436	JEHS-0600-M-3	-	15,150	12,950	10,900	9,150	7,550	400.3	40	1,601.00
MLU441	JEHS-0680-M-3	-	16,090	13,800	11,650	9,850	8,150	400.3	40	1,662.00
MLU445	JEHS-0800-M-3	-	19,686	16,950	14,350	12,000	9,770	400.3	44	2,844.00
MLU449	JEHS-1000-M-3	-	-	19,100	16,550	14,200	11,900	400.3	44	3,142.00

**MEDIUM TEMPERATURE 5°C TO -15°C - SCROLL COMPRESSOR, R407F**

MLU403	JEHS-0200-B2-M-1	-	5,410	4,690	3,980	3,300	2,670	230.1	33	1,106.00
MLU407	JEHS-0200-B2-M-3	-	5,410	4,690	3,980	3,300	2,670	400.3	33	1,106.00
MLU409	JEHS-0250-B2-M-1	-	6,400	5,570	4,750	3,970	3,260	230.1	36	1,145.00
MLU411	JEHS-0250-B2-M-3	-	6,400	5,570	4,750	3,970	3,260	400.3	36	1,145.00
MLU417	JEHS-0300-B2-M-1	-	7,350	6,510	5,610	4,710	3,860	230.1	36	1,193.00
MLU418	JEHS-0300-B2-M-3	-	7,350	6,510	5,610	4,710	3,860	400.3	36	1,193.00
MLU422	JEHS-0350-B2-M-1	-	8,040	7,020	5,960	4,900	-	230.1	40	1,285.00
MLU424	JEHS-0350-B2-M-3	-	8,040	7,020	5,960	4,900	-	400.3	40	1,285.00
MLU420	JEHS-0350-M-1	-	10,250	8,570	7,090	5,780	-	230.1	35	1,482.00
MLU421	JEHS-0350-M-3	-	10,250	8,570	7,090	5,780	-	400.3	35	1,430.00
MLU425	JEHS-0400-M-1	-	12,600	10,600	8,770	7,180	-	230.1	34	1,559.00
MLU426	JEHS-0400-M-3	-	12,600	10,600	8,770	7,180	-	400.3	34	1,527.00
MLU431	JEHS-0500-M-3	-	15,200	12,750	10,600	8,700	-	400.3	35	1,570.00
MLU436	JEHS-0600-M-3	-	17,500	14,800	12,300	10,050	-	400.3	40	1,601.00
MLU441	JEHS-0680-M-3	-	18,720	16,030	13,470	11,190	-	400.3	40	1,662.00
MLU445	JEHS-0800-M-3	-	20,130	17,330	14,450	11,790	-	400.3	44	2,844.00
MLU449	JEHS-1000-M-3	-	24,930	21,510	18,180	15,080	-	400.3	44	3,142.00

Units with pre-fix JEHR use Tecumseh compressors, units with pre-fix JEH2 use Maneurop compressors

All capacities quoted at 32°C ambient in accordance with BS EN 13215:2000

Noise levels are quoted at 10m free field conditions at -10°C/+32°C conditions. Alternative conditions may produce different results.

# PACKAGED LOW NOISE HERMETIC & SCROLL CONDENSING UNITS

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## HOUSED LOW NOISE FUSION CONDENSING UNITS



### LOW TEMPERATURE -20°C TO -40°C - RECIPROCATING COMPRESSOR, R404A

CODE	MODEL	CAPACITY (WATTS) - EVAPORATING TEMPERATURE					SUPPLY	NOISE LEVEL	(WG) £ LIST EA
		-20	-25	-30	-35	-40			
MLU250	JEH2-0075-L-1	895	721	562	418	289	230.1	30	660.00
MLU300	JEH2-0175-L-1	2,011	1,631	1,277	947	643	230.1	35	1,128.00
MLU301	JEH2-0175-L-3	2,011	1,631	1,277	947	643	400.3	35	1,128.00
MLU305	JEH2-0225-L-1	3,149	2,572	2,044	1,567	1,139	230.1	38	1,281.00
MLU306	JEH2-0225-L-3	3,149	2,572	2,044	1,567	1,139	400.3	38	1,302.00
MLU310	JEH2-0350-L-3	4,402	3,420	2,567	1,845	1,252	400.3	38	1,301.00
MLU315	JEH2-0400-L-3	6,014	4,821	3,757	2,824	2,020	400.3	38	1,476.00
MLU330	JEH2-0725-L-3	8,548	6,983	5,549	4,244	3,070	400.3	40	2,669.00
MLU335	JEH2-0825-L-3	11,372	9,366	7,514	5,818	4,276	400.3	41	2,750.00

Please note that the above units are NOT suitable for use with R407F or R407A.

### LOW TEMPERATURE -20°C TO -40°C - SCROLL COMPRESSOR, R404A

MLU461	JEHS-0200-L-3	2,310	1,910	1,560	1,260	1,000	400.3	27	1,693.00
MLU466	JEHS-0300-L-3	3,000	2,480	2,040	1,645	1,315	400.3	28	1,826.00
MLU471	JEHS-0400-L-3	4,700	3,850	3,100	2,485	1,940	400.3	35	2,106.00
MLU476	JEHS-0500-L-3	5,550	4,600	3,750	3,000	2,330	400.3	36	2,173.00
MLU481	JEHS-0600-L-3	6,450	5,350	4,400	3,600	2,850	400.3	41	2,389.00
MLU485	JEHS-0750-L-3	7,750	6,490	5,350	4,320	3,390	400.3	41	3,525.00
MLU489	JEHS-1000-L-3	10,400	8,720	7,200	5,850	4,660	400.3	42	3,737.00

### LOW TEMPERATURE -20°C TO -40°C - SCROLL COMPRESSOR, R407F

MLU461	JEHS-0200-L-3	2,320	1,880	1,510	1,190	980	400.3	27	1,693.00
MLU466	JEHS-0300-L-3	3,090	2,510	2,020	1,620	1,310	400.3	28	1,826.00
MLU471	JEHS-0400-L-3	4,480	3,620	2,900	2,280	1,780	400.3	35	2,106.00
MLU476	JEHS-0500-L-3	5,380	4,360	3,510	2,770	2,170	400.3	36	2,173.00
MLU481	JEHS-0600-L-3	6,420	5,230	4,210	3,330	2,600	400.3	41	2,389.00

Where R07F capacities are not shown these units are not currently approved for this refrigerant

All capacities quoted at 32°C ambient in accordance with BS EN 13215:2000

Noise levels are quoted at 10m free field conditions at -25°C/+32°C conditions. Alternative conditions may produce different results.

## HOUSED LOW NOISE DIGITAL SCROLL CONDENSING UNITS

### R404A – MEDIUM TEMPERATURE TWIN SCROLL (1 DIGITAL, 1 FIXED SPEED) -20°C TO +5°C

CODE	MODEL	CAPACITY (WATTS) - EVAPORATING TEMPERATURE						SUPPLY	NOISE LEVEL	(WG) £ LIST EA
		5	0	-5	-10	-15	-20			
MLU575	JEHSDT-1200-M-3	30,700	26,100	22,000	18,400	15,200	12,400	400.3.50	TBA	5,721.00

Unit includes 1 Copeland digital scroll and 1 Copeland fixed speed scroll compressor, four condenser fans, fan speed control, microchannel condenser, electrical control panel, mains isolator, Carel electronic controller with LCD display, compressor HP switches, externally visible fault lights, electronic oil control, oil separator, internal ball valves and external service valves, liquid line drier and sight glass, pressure reliefvalve fitted to liquid receiver. Capacity data based on 10K superheat and OK subcooling.

## HOUSED LOW NOISE SCROLL CONDENSING UNITS - NEW GENERATION

OPTYMA PLUS™



### R404A- MEDIUM TEMPERATURE -20°C TO +10°C EVAPORATING (ALSO SUITABLE FOR R407A/R407F)

CODE	MODEL	CAPACITY (WATTS) - EVAPORATING TEMPERATURE							SUPPLY	NOISE LEVEL	(NA) £ LIST EA
		10	5	0	-5	-10	-15	-20			
MCL300	MPUM034MLPOOG	6,550	5,650	4,800	4,050	3,400	2,800	2,250	230.1	37	1,642.00
MCL305	MPUM034MLPOOE	6,550	5,650	4,800	4,050	3,400	2,800	2,250	400.3	37	1,614.00
MCL320	MPUM046MLPOOG	8,400	7,250	6,250	5,350	4,500	3,750	3,100	230.1	37	1,859.00
MCL325	MPUM046MLPOOE	8,400	7,250	6,250	5,350	4,500	3,750	3,100	400.3	37	1,833.00
MCL327	MPUM057MLPOOG	9,600	8,400	7,300	6,250	5,350	4,500	3,700	230.1	37	2,085.00
MCL329	MPUM057MLPOOE	9,600	8,400	7,300	6,250	5,350	4,500	3,700	400.3	37	2,053.00
MCL330	MPUM068MLPOOG	14,100	12,150	10,350	8,750	7,300	6,050	4,950	230.1	38	2,322.00
MCL335	MPUM068MLPOOE	14,100	12,150	10,350	8,750	7,300	6,050	4,950	400.3	38	2,287.00
MCL340	MPUM080MLPOOG	16,200	13,950	11,950	10,150	8,500	7,050	5,800	230.1	38	2,689.00
MCL355	MPUM080MLPOOE	16,200	13,950	11,950	10,150	8,500	7,050	5,800	400.3	38	2,415.00
MCL375	MPUM107MLPOOE	19,700	17,050	14,700	12,550	10,600	8,850	7,300	400.3	38	2,825.00
MCL380	MPUM125MLPOOE	25,000	21,750	18,650	15,750	13,050	10,700	7,850	400.3	44	3,932.00
MCL390	MPUM162MLPOOE	29,650	25,850	22,400	19,300	16,500	13,950	11,650	400.3	44	4,753.00

Capacity for R404A at 32°C ambient

Noise levels in dB(A) at 10m free field conditions

**COMPRESSORS**



Maneurop Compressors are supplied with anti-vibration mountings and braze-on connectors.

**Capacities**

- 1) R404A evap -10°C condensing +40°C
- 2) R404A evap -30°C, condensing +40°C
- 3) R407c evap +7.2°C condensing +54.4°C

'S' versions without sightglass or balance to special order.

Accessories page 14.

Use MTZ to replace MT compressor on R22.

**R134A/R404A/407A/407F/R507/R407C – LOW/MEDIUM/HIGH BACK PRESSURE (3) –30°C TO +15°C EVAPORATING**

CODE	MODEL	APPROX HP	C.C	CAPACITY		SUPPLY	SHELL TYPE	(MA) LIST EA
				WATTS	BTU/HR			
MAC404R	MTZ18/5ER(VE)	1.1/2	30	3,726	12,717	1 PH	S/GLASS + BAL	665.00
MAC405R	MTZ18/4ER(VE)	1.1/2	30	3,726	12,717	3 PH	S/GLASS + BAL	665.00
MAC002R	MTZ22/5ER(VE)	1.3/4	38	4,777	16,304	1 PH	S/GLASS + BAL	677.00
MAC004R	MTZ22/4ER(VE)	1.3/4	38	4,777	16,304	3 PH	S/GLASS + BAL	671.00
MAC007R	MTZ28/5ER(VE)	2.1/4	48	6,127	20,911	1 PH	S/GLASS + BAL	733.00
MAC009R	MTZ28/4ER(VE)	2.1/4	48	6,127	20,911	3 PH	S/GLASS + BAL	717.00
MAC012R	MTZ32/5ER(VE)	2.3/4	54	6,941	23,694	1 PH	S/GLASS + BAL	772.00
MAC022R	MTZ32/4ER(VE)	2.3/4	54	6,941	23,694	3 PH	S/GLASS + BAL	779.00
MAC034R	MTZ36/5ER(VE)	3	61	7,994	27,283	1 PH	S/GLASS + BAL	975.00
MAC042R	MTZ36/4ER(VE)	3	61	7,994	27,283	3 PH	S/GLASS + BAL	891.00
MAC062R	MTZ40/4ER(VE)	3.1/2	68	9,128	31,153	3 PH	S/GLASS + BAL	1,007.00
MAC072R	MTZ44/4ER(VE)	3.3/4	76	9,867	33,675	3 PH	S/GLASS + BAL	1,213.00
MAC082R	MTZ50/4ER(VE)	4	86	11,266	38,450	3 PH	S/GLASS + BAL	1,267.00
MAC084R	MTZ50/5ER(VE)	4	86	11,266	38,450	1 PH	S/GLASS + BAL	1,267.00
MAC092R	MTZ56/4ER(VE)	4.1/2	96	12,944	44,177	3 PH	S/GLASS + BAL	1,256.00
MAC102R	MTZ64/4ER(VE)	5	108	14,587	49,785	3 PH	S/GLASS + BAL	1,373.00
MAC112R	MTZ72/4ER(VE)	6	121	16,380	55,904	3 PH	S/GLASS + BAL	1,605.00
MAC122R	MTZ80/4ER(VE)	6.1/2	136	18,525	63,225	3 PH	S/GLASS + BAL	1,717.00
MAC142R	MTZ100/4ER(VE)	8.1/2	171	22,111	75,464	3 PH	S/GLASS + BAL	2,471.00
MAC162R	MTZ125/4ER(VE)	10	215	29,212	99,699	3 PH	S/GLASS + BAL	2,948.00
MAC172R	MTZ144/4ER(VE)	11.1/2	242	32,934	112,403	3 PH	S/GLASS + BAL	3,167.00
MAC182R	MTZ160/4ER(VE)	13	272	37,386	127,597	3 PH	S/GLASS + BAL	3,388.00

**R404A/R507 – LOW BACK PRESSURE (2) –40°C TO –10°C EVAPORATING**

MAC304	NTZ048-5LRI	1.3/4	48	1,430	4,880	1 PH	S/GLASS + BAL	616.00
MAC305	NTZ048-4LRI	1.3/4	48	1,430	4,880	3 PH	S/GLASS + BAL	616.00
MAC309	NTZ068-5LRI	2.1/4	68	2,140	7,304	1 PH	S/GLASS + BAL	732.00
MAC315	NTZ068-4LRI	2.1/4	68	2,140	7,304	3 PH	S/GLASS + BAL	732.00
MAC332	NTZ096-4LRI	3.1/2	96	3,090	10,546	3 PH	S/GLASS + BAL	907.00
MAC344	NTZ108-4LRI	3.3/4	108	3,570	12,184	3 PH	S/GLASS + BAL	955.00
MAC354	NTZ136-4LRI	4	136	4,510	15,392	3 PH	S/GLASS + BAL	1,207.00
MAC364	NTZ215-4LRI	7	215	7,140	24,369	3 PH	S/GLASS + BAL	2,216.00
MAC374	NTZ271-4LRI	8.1/2	272	9,000	30,716	3 PH	S/GLASS + BAL	2,402.00

**SCROLL COMPRESSORS**



Refrigeration scroll compressors with braze connections.

Internally protected (HOOP system).

For oil see page 14.

For compressor comparisons see section 7.

**R404A/R507/R134A/R22 – MEDIUM/HIGH BACK PRESSURE (1) –23°C TO +10°C EVAPORATING**

CODE	MODEL	APPROX HP	CAPACITY		SUPPLY	SHELL TYPE	(MA) LIST EA
			WATTS	BTU/HR			
MSC800	MLZ015T5LP9	2	3,800	12,969	1 PH	SIGHTGLASS	1,059.00
MSC805	MLZ015T4LP9	2	3,800	12,969	3 PH	SIGHTGLASS	1,090.00
MSC810	MLZ019T5LP9	2.5	4,800	16,382	1 PH	SIGHTGLASS	1,094.00
MSC815	MLZ019T4LP9	2.5	4,800	16,382	3 PH	SIGHTGLASS	1,125.00
MSC820	MLZ021T5LP9	3	5,100	17,406	1 PH	SIGHTGLASS	1,110.00
MSC825	MLZ021T4LP9	3	5,100	17,406	3 PH	SIGHTGLASS	1,147.00
MSC830	MLZ026T5LP9	3.5	6,400	21,843	1 PH	SIGHTGLASS	1,285.00
MSC835	MLZ026T4LP9	3.5	6,400	21,843	3 PH	SIGHTGLASS	1,325.00
MSC840	MLZ030T5LC9	5	7,700	26,280	1 PH	SIGHTGLASS	1,461.00
MSC845	MLZ030T4LC9	4	7,700	26,280	3 PH	SIGHTGLASS	1,461.00
MSC850	MLZ038T5LC9	5	9,200	31,399	1 PH	SIGHTGLASS	1,612.00
MSC855	MLZ038T4LC9	5	9,200	31,399	3 PH	SIGHTGLASS	1,612.00
MSC857	MLZ042T5LC9	5.5	10,357	35,348	1 PH	SIGHTGLASS	1,793.00
MSC860	MLZ045T5LC9	6	11,100	37,884	1 PH	SIGHTGLASS	1,793.00
MSC865	MLZ045T4LC9	6	11,100	37,884	3 PH	SIGHTGLASS	1,793.00
MSC870	MLZ048T4LC9	6.5	12,100	41,297	3 PH	SIGHTGLASS	1,951.00
MSC875	MLZ058T4LC9	7.5	14,400	49,147	3 PH	SIGHTGLASS	2,545.00
MSC880	MLZ066T4LP9	9	16,500	56,314	3 PH	SIGHTGLASS	2,820.00
MSC895	MLZ076T4LP9	10	19,000	64,846	3PH	SIGHTGLASS	3,098.00

## SCROLL COMPRESSORS



LT refrigeration with braze connections.

Duties for R404A, evap -30°C, condensing 40°C.

### R404A/R507 – LOW BACK PRESSURE (2) –40°C TO –10°C EVAPORATING

CODE	MODEL	APPROX HP	CAPACITY		SUPPLY	SHELL TYPE	(MA) LIST EA
			WATTS	BTU/HR			
MSC900	LLZ013T4LQ9	4	3,100	10,580	3 PH	SIGHTGLASS	1,643.00
MSC905	LLZ015T4LQ9	5	3,700	12,628	3 PH	SIGHTGLASS	1,828.00
MSC910	LLZ018T4LQ9	6	4,400	15,017	3 PH	SIGHTGLASS	1,975.00
MSC915	LLZ024T4LQ9	8	5,600	19,112	3 PH	SIGHTGLASS	2,769.00

Capacities quoted are for models without economiser.

## PERFORMER SCROLL COMPRESSORS



Capacity at cond +50°C.

3) -M/HBP Evap +5°C. R407c.

### R404A/R507 – LOW BACK PRESSURE (2) –40°C TO –10°C EVAPORATING

CODE	MODEL	APPROX HP	M <sup>3</sup> /h	CAPACITY		SHELL TYPE	CONNS *SEE NOTE	(MA) LIST EA
				WATTS	BTU/HR			
MSC035R	SZ084-4V	8.2	20	18,800	64,200	S/G + BAL	BRAZED*	1,921.00
MSC040R	SZ090-4V	8.7	21	19,900	67,900	S/G + BAL	BRAZED*	2,032.00
MSC045R	SZ100-4V	9.2	22	21,100	71,700	S/G + BAL	BRAZED*	2,178.00
MSC047R	SZ110-4V	10.4	25	24,000	81,900	S/G + BAL	BRAZED*	2,313.00
MSC052R	SZ120-4V	12.0	29	27,900	95,200	S/G + BAL	BRAZED*	2,416.00
MSC058R	SZ161-4V	15.5	38	36,000	124,900	S/G + BAL	BRAZED*	2,947.00
MSC060R	SZ175-4R	17.0	41	39,200	133,800	S/G + BAL	ROTALOCK	3,129.00
MSC065R	SZ185-4R	18.3	43	42,100	143,700	S/G + BAL	ROTALOCK	3,349.00
MSC095R	SZ240-4A	20.0	60	69,200	236,177	S/G + BAL	BRAZED*	5,452.00
MSC100R	SZ300-4A	25.0	76	85,500	291,808	S/G + BAL	BRAZED*	5,892.00

All models are three phase. Braze to Rotalock adaptors available – page 14.

## TANDEM MODELS



Twin compressor versions.

Triple and quadruple on request.

### R407C/R404A/R507/R134A MEDIUM BACK PRESSURE (3) –5°C TO +15°C EVAPORATING

MSC134R	SZ170-4	16.3	40	37,100	126,700	S/G + BAL	BRAZED	4,258.00
MSC136R	SZ180-4	17.2	42	39,200	133,800	S/G + BAL	BRAZED	4,477.00
MSC140R	SZ200-4	18.3	44	41,500	141,600	S/G + BAL	BRAZED	4,755.00
MSC142R	SZ220-4	20.8	50	47,300	161,400	S/G + BAL	BRAZED	5,049.00
MSC145R	SZ230-4	22.8	54	51,800	176,800	S/G + BAL	BRAZED	5,393.00
MSC147R	SZ242-4	24.1	58	55,000	187,700	S/G + BAL	BRAZED	5,492.00
MSC150R	SZ250-4	24.0	58	55,000	187,700	S/G + BAL	BRAZED	5,633.00
MSC155R	SZ285-4	27.9	67	63,500	216,900	S/G + BAL	BRAZED	5,926.00
MSC160R	SZ290-4	28.3	68	64,400	219,700	S/G + BAL	BRAZED	5,975.00
MSC170R	SZ310-4	30.3	73	69,000	235,500	S/G + BAL	BRAZED	6,304.00
MSC174R	SZ320-4A	31.7	75	72,200	246,500	S/G + BAL	BRAZED	6,320.00
MSC176R	SZ322-4	32.1	75	73,000	249,000	S/G + BAL	BRAZED	6,320.00
MSC180R	SZ350-4	33.9	81	77,200	263,400	S/G + BAL	BRAZED	6,594.00
MSC190R	SZ370-4	36.5	87	83,000	283,200	S/G + BAL	BRAZED	6,993.00

All models are three phase.

**INVERTER DRIVE COMPRESSORS**



**R134A/R404A/R507/R407C – LOW/MEDIUM/HIGH BACK PRESSURE (1) –30°C TO +15°C EVAPORATING**

CODE	MODEL	APPROX HP	C.C	CAPACITY		SUPPLY	SHELL TYPE	(MA) LIST EA
				WATTS	BTU/HR			
MAC612V	VTZ038-GNR1	1.3/4	38.12	1,920	4,960	3PH	S/GLASS + BAL	2,715.48
MAC614V	VTZ054-GNR1	2.3/4	53.86	2,890	7,110	3PH	S/GLASS + BAL	3,028.57
MAC616V	VTZ086-GNR1	4	85.64	3,720	12,830	3PH	S/GLASS + BAL	3,541.94
MAC618V	VTZ121-GNR1	6	120.94	5,730	16,170	3PH	S/GLASS + BAL	4,511.95
MAC620V	VTZ171-GNR1	8.1/2	171.26	7,720	25,040	3PH	S/GLASS + BAL	5,769.75
MAC622V	VTZ215-GNR1	10	215.44	10,310	32,450	3PH	S/GLASS + BAL	5,898.30
MAC624V	VTZ242-GNR1	11.1/2	241.87	11,070	31,690	3PH	S/GLASS + BAL	6,945.95

(1) R404A, evap -10°C, condensing 40°C, OK subcooling, 10K superheat.

The above codes and prices include a dedicated Danfoss CD302 inverter drive with local control panel, IP20 enclosure, RFI H2 class protection.

Models with motor code G (e.e VTZ054-GNR1) are suitable for 380-480v, 3ph power supply, 50/60Hz.

Maximum and minimum evaporating temperature range will depend upon the type of refrigerant being used.

**FREQUENCY LIMITS**

MODEL	R404A	R407C	R134a
VTZ038	35-90Hz	35-90Hz	35-90Hz
VTZ054	35-90Hz	35-90Hz	35-90Hz
VTZ086	30-90Hz	30-90Hz	30-90Hz
VTZ121	30-80Hz	30-85Hz	30-85Hz
VTZ171	30-90Hz	30-90Hz	30-90Hz
VTZ215	30-90Hz	30-90Hz	30-90Hz
VTZ242	30-80Hz	30-85Hz	30-85Hz

**TANDEM HERMETIC COMPRESSORS**



1) Capacity R407c at +7.2°C evap, +54.4°C condensing.

2) Capacity R404A at -30°C evap, +40°C condensing.

**R134A/R404A/R507/R407C – LOW/MEDIUM/HIGH BACK PRESSURE (1) –30°C TO +15°C EVAPORATING**

CODE	MODEL	APPROX HP	C.C	CAPACITY		SUPPLY	SHELL TYPE	(MA) LIST EA
				WATTS	BTU/HR			
MAC191R	MTZ200.T4SA	2 x 81/2	2 x 171	44,222	150,928	3PH	S/GLASS	4,712.00
MAC201R	MTZ250.T4SA	2 x 10	2 x 215	58,424	199,399	3PH	S/GLASS	4,974.00
MAC206R	MTZ288.T4SA	2 x 111/2	2 x 242	65,868	224,805	3PH	S/GLASS	5,446.00
MAC211R	MTZ320.T4SA	2 x 13	2 x 272	74,772	255,194	3PH	S/GLASS	5,569.00

**R134A/R404A/R507/R407C – LOW/MEDIUM/HIGH BACK PRESSURE (2) –40°C TO -20°C EVAPORATING**

MAC375R	NTZ340.T4SA	2 x 7	2 x 215	14,280	48,737	3PH	S/GLASS	6,370.00
MAC377R	NTZ542.T4SA	2 x 81/2	2 x 272	18,000	61,433	3PH	S/GLASS	6,891.00

## COMPRESSORS ACCESSORIES



1

### STARTING EQUIPMENT

CODE	DESCRIPTION	SUITABLE FOR	(MB) £ LIST EA
MAS631	1PHASE CSR2 (HST) ELECTRICS KIT	MTZ18/5-MTZ28/5, NTZ048/5 - NTZ068/5	98.21
MAS633	1 PHASE CSR2 (HST) ELECTRICS KIT	MTZ32/5- - MTZ36/5	100.45
MAS635	1 PHASE CSR2 (HST) ELECTRICS KIT	MTZ50/5	128.24
MAS642	1 PHASE CSR2 (HST) PRE-WIRED BOX	MTZ18/5-MTZ28/5, NTZ048/5 - NTZ068/5	253.61
MAS643	1 PHASE CSR2 (HST) PRE-WIRED BOX	MTZ32/5- - MTZ36/5	253.61
MAS650	STARTING RELAY	PSC, CSR2 ELECTRICS	73.62
MAS666	10MFD CAPACITOR 440V	PSC, CSR2 ELECTRICS	14.23
MAS670	20MFD CAPACITOR 440V	PSC, CSR2 ELECTRICS	17.11
MAS672	25MFD CAPACITOR 440V	PSC, CSR2 ELECTRICS	31.61
MAS674	30MFD CAPACITOR 440V	PSC, CSR2 ELECTRICS	36.82
MAS676	100MFD CAPACITOR 330V	PSC, CSR2 ELECTRICS	32.72
MAS678	135MFD CAPACITOR 330V	PSC, CSR2 ELECTRICS	33.99

### CRANKCASE HEATERS – MUST BE FITTED

MAS587	30 WATT PTC 200-600 VOLT HEATER	ALL RECIP. MODELS EXCEPT 8 CYL.	24.81
MAS595	HEAT TRANSFER PASTE	USE WITH MAS 587/588	4.44
MAS591	HEATER (BELT) 240 VOLT	SCROLL MODELS 084 to 160	69.32
MAS593	HEATER (BELT) 240 VOLT	SCROLL MODELS 240 to 300	86.26

### ROTOLOCK VALVES AND ANGLED (90°) ADAPTORS

MAS490	V01 3/8"ODS x 1" DISCHARGE VALVE	MT18, MT22, MT28	30.13
MAS500	V06 1/2" ODS x 1" SUCTION VALVE	MT18, MT22, MT28	32.52
MAS500	V06 1/2" ODS x 1" DISCHARGE VALVE	MT32, MT36, MT40, NTZ048, NTZ068	32.52
MAS505	V09 5/8" ODS x 1.1/4" SUCTION VALVE	MT32, MT36, MT40, NTZ048, NTZ068	32.52
MAS510	V04 3/4" ODS x 1.1/4" DISCHARGE VALVE	MT44, 50, 56, 64, 72, 80, LT40 to LT100, SM115, SM125	49.60
MAS515	V07 7/8" ODS x 1.3/4" SUCTION VALVE	MT44, MT50, MT56, MT64, MT72, MT80, LT40, LT44	58.78
MAS520	V05 7/8" ODS x 1.1/4" DISCHARGE VALVE	MT100, MT125, MT160, SM115, SM125	50.83
MAS525	V02 1.1/8" ODS x 1.3/4" SUCTION VALVE	MT80, 100, 125, 160, LT50, LT88, LT100, SM115, SM125	75.16
MAS528	V10 1.3/8" ODS x 1.3/4" SUCTION VALVE	SM115, SM125	127.93
MAS518	V08 1.3/8" ODS x 2.1/4" SUCTION VALVE	SM175, SM185	109.47
MAS513	V03 1.5/8" ODS x 2.1/4" SUCTION VALVE	SM175, SM185	101.76
MAS535	BRAZE TO ROTALOCK ADAPTOR	SM/SZ 084, 090, 100	66.07
MAS536	BRAZE TO ROTALOCK ADAPTOR	SM/SZ 110,120	44.30
MAS577	ROTOLOCK SEAL SET	MT/MTZ 18-160, all NTZ	8.42
MAS578	ROTOLOCK SEAL SET	MT/MTZ 200-320	16.25
MAS579	ROTOLOCK SEAL SET	ALL SCROLL	7.31

### MANEUROP OIL – THE ONLY OIL TO BE USED WHEN TOPPING-UP SYSTEM

MAS600	MANEUROP WHITE OIL – 2 LTR. CAN –160P	ALL MANEUROP COMPS. FOR R22/R502/R12/403a	35.18
MAS601	MANEUROP WHITE OIL – 5 LTR. CAN –160P	ALL MANEUROP COMPS. FOR R22/R502/R12/403a	67.21
MAS603	MANEUROP ESTER OIL – 1 LTR. CAN –160PZ	ALL MANEUROP (MTZ) R134A, R404A, R507, 407c	55.88
MAS602	MANEUROP ESTER OIL – 2 LTR. CAN –160PZ	ALL MANEUROP (MTZ) R134A, R404A, R507, 407c	99.28
MAS605	MANEUROP ESTER OIL – 1 LTR. CAN –160SZ	MANEUROP SCROLL (NOT MLZ), NTZ	58.06
MAS606	MANEUROP ESTER OIL – 2 LTR. CAN –160SZ	MANEUROP SCROLL (NOT MLZ), NTZ	102.87
MAS608	MANEUROP PVE OIL – 1 LTR. CAN – PVE320HV	MANEUROP MLZ SCROLL	115.64

### ACOUSTIC NOISE – REDUCTION COVERS

HUT001	ACOUSTIC HOOD – 1-CYL COMPRESSORS	MT/Z18 – MT/Z40, NTZ048 – NTZ068	128.00
HUT002	ACOUSTIC HOOD – 2-CYL COMPRESSORS	MT/Z44 – MT/Z80, NTZ096 – NTZ108	155.00
HUT003	ACOUSTIC HOOD – 4-CYL COMPRESSORS	MT/Z100 – MT/Z160, NTZ136 – NTZ271	203.00
HUT004	ACOUSTIC HOOD – SCROLL COMPRESSORS	SM/Z084, SM/Z090, SM/Z100	249.00
HUT005	ACOUSTIC HOOD – SCROLL COMPRESSORS	SM/Z110, SM/Z120	266.00
HUT006	ACOUSTIC HOOD – SCROLL COMPRESSORS	SM/Z115, SM/Z125	261.00
HUT007	ACOUSTIC HOOD – SCROLL COMPRESSORS	SM/Z175, SM/Z185	297.00
HUT008	ACOUSTIC HOOD – SCROLL COMPRESSORS	SM/Z160	267.00



**OPTYMA MCZC SINGLE FAN  
AIR COOLED CONDENSING  
UNITS**



Complete units fitted with crankcase heating, liquid receiver, service valves, HP/LP (HP can be set to auto or manual reset), GOMAX pressure lines, fully prewired to terminal box.

2) Capacity optimised for R404A at 32°C ambient.

**R404A/R507 MEDIUM/HIGH BACK PRESSURE (2) -30°C TO +10°C EVAPORATING**

CODE	MODEL	COMP. MODEL	CAPACITY WATTS		SUPPLY (50Hz)		RECEIVER LITRE	HOUSING SIZE	(NA) LIST £ EA
			0°C	-15°C	COMP.	FAN			
MCU154	MCZC030MTA02G	MTZ18	2,758	1,342	230.1	230.1	3	3	827.00
MCU158	MCZC030MTA02E	MTZ18	2,758	1,342	400.3	230.1	3	3	783.00
MCU164	MCZC038MTA02G	MTZ22	3,851	2,066	230.1	230.1	3	3	926.00
MCU168	MCZC038MTA02E	MTZ22	3,851	2,066	400.3	230.1	3	3	883.00
MCU185	MCZC048MTA02G	MTZ28	5,121	2,778	230.1	230.1	6	4	1,097.00
MCU188	MCZC048MTA02E	MTZ28	5,121	2,778	400.3	230.1	6	4	1,054.00
MCU204	MCZC054MTA02G	MTZ32	5,582	3,159	230.1	230.1	6	4	1,183.00
MCU208	MCZC054MTA02E	MTZ32	5,582	3,159	400.3	230.1	6	4	1,140.00
MCU238	MCZC060MTA02G	MTZ36	6,295	3,654	230.1	230.1	6	4	1,293.00
MCU242	MCZC060MTA02E	MTZ36	6,295	3,654	400.3	230.1	6	4	1,249.00
MCU270	MCZC068MTA02E	MTZ40	7,231	4,252	400.3	230.1	6	4	1,400.00
MCU300	MCZC086MTA02G	MTZ51	8,655	4,872	230.1	230.1	8	5	1,623.00
MCU304	MCZC086MTA02E	MTZ51	8,655	4,872	400.3	230.1	8	5	1,531.00
MCU322	MCZC096MTA02E	MTZ57	9,551	5,257	400.3	230.1	8	5	1,664.00
MCU352	MCZC108MTA02E	MTZ65	11,425	6,338	400.3	230.1	10	5	1,900.00
MCU362	MCZC121MTA02E	MTZ73	12,908	7,198	400.3	230.1	10	6	2,090.00
MCU380	MCZC136MTA02E	MTZ81	14,304	8,293	400.3	230.1	10	6	2,277.00
MCU396	MCZC171MTA02E	MTZ100	16,742	9,511	400.3	230.1	14	6	2,955.00

**OPTYMA LCHC SINGLE FAN  
AIR COOLED CONDENSING  
UNITS**



Specifications as for MCZC.

**R404A/R507 LOW BACK PRESSURE (2) -40°C TO -10°C EVAPORATING**

CODE	MODEL	COMP. MODEL	CAPACITY WATTS		SUPPLY (50Hz)		RECEIVER LITRE	HOUSING SIZE	(NA) LIST £ EA
			-20°C	-35°C	COMP.	FAN			
MCU433	LCHC048NTA02G	NTZ048	2,093	992	230.1	230.1	3.1	3	1,010.00
MCU434	LCHC048NTA02E	NTZ048	2,093	992	400.3	230.1	3.1	3	962.00
MCU445	LCHC068NTA02G	NTZ068	3,402	1,572	230.1	230.1	6	4	1,281.00
MCU446	LCHC068NTA02E	NTZ068	3,402	1,572	400.3	230.1	6	4	1,234.00
MCU454	LCHC096NTA02E	NTZ096	4,274	2,009	400.3	230.1	6	4	1,327.00
MCU464	LCHC108NTA02E	NTZ108	5,104	2,361	400.3	230.1	6	20	1,415.00
MCU474	LCHC136NTA02E	NTZ136	6,403	3,182	400.3	230.1	7.5	5	1,672.00
MCU484	LCHC215NTA02E	NTZ215	9,733	4,846	400.3	230.1	10	6	2,602.00
MCU494	LCHC271NTA02E	NTZ271	12,841	6,639	400.3	230.1	10	6	3,497.00

Twin fan LGHC units also available.  
Twin fan versions available to special order.  
Housed units to special order.

**OPTYMA MCUC SINGLE FAN  
AIR COOLED CONDENSING  
UNITS - SCROLL**

Specifications as for MCZC.

Fitted with MLZ scroll compressor.



**R404A/R507/R134A/R22 - MEDIUM/HIGH BACK PRESSURE (2) -20°C TO +10°C EVAPORATING**

CODE	MODEL	COMP. MODEL	CAPACITY WATTS		SUPPLY (50Hz)		RECEIVER LITRE	HOUSING SIZE	(NA) LIST £ EA
			0°C	-10°C	COMP.	FAN			
MSU205	MCUC034MLA02G	MLZ015	TBA	TBA	230.1	230.1	6	4	1,201.00
MSU210	MCUC034MLA02E	MLZ015	TBA	TBA	400.3	230.1	6	4	1,125.00
MSU215	MCUC043MLA02G	MLZ019	5,546	4,048	230.1	230.1	6	4	1,295.00
MSU220	MCUC043MLA02E	MLZ019	5,546	4,048	400.3	230.1	6	4	1,220.00
MSU225	MCUC057MLA02G	MLZ026	7,335	5,347	230.1	230.1	8	4	1,519.00
MSU230	MCUC057MLA02E	MLZ026	7,335	5,347	400.3	230.1	8	4	1,407.00
MSU235	MCUC068MLA02G	MLZ030	8,609	6,301	230.1	230.1	8	5	1,903.00
MSU240	MCUC068MLA02E	MLZ030	8,609	6,301	400.3	230.1	8	5	1,595.00
MSU250	MCUC080MLA02E	MLZ038	10,829	7,853	400.3	230.1	8	5	1,877.00
MSU260	MCUC107MLA02E	MLZ048	13,933	10,155	400.3	230.1	10	6	2,533.00

## COMPRESSOR RECEIVER SETS



1

Capacity at cond.,  
+45°C, Evap +5°C.

Units upto/including MCR80 are supplied fully enclosed for mounting outdoors. COMPACT housed versions are also available upto/including MCR40.

### R404A/407C/134A – LOW/MEDIUM/HIGH BACK PRESSURE

CODE	MODEL	APPROX. HP	C.C.	CAPACITY WATTS		SUPPLY	RECEIVER LITRE	CONNECTIONS		(NA) LIST £ EA
				R404A	R404C			SUCT. OD	LIQ. MF	
MCR019R	MCRZ18/5/R	1.1/2	30	3,999	3,721	240.1	3.4	1/2	3/8	1,369.00
MCR018R	MCRZ18/4/R	1.1/2	30	3,999	3,721	400.3	3.4	1/2	3/8	1,273.00
MCR023R	MCRZ22/5/R	1.3/4	38	5,124	4,726	240.1	3.4	1/2	3/8	1,429.00
MCR022R	MCRZ22/4/R	1.3/4	38	5,124	4,726	400.3	3.4	1/2	3/8	1,403.00
MCR029R	MCRZ28/5/R	2.1/4	48	6,530	6,030	240.1	5.2	1/2	3/8	1,463.00
MCR028R	MCRZ28/4/R	2.1/4	48	6,530	6,030	400.3	5.2	1/2	3/8	1,510.00
MCR033R	MCRZ32/5/R	2.3/4	54	7,570	6,800	240.1	5.2	5/8	1/2	1,559.00
MCR032R	MCRZ32/4/R	2.3/4	54	7,570	6,800	400.3	5.2	5/8	1/2	1,535.00
MCR036R	MCRZ36/4/R	3	61	8,549	7,795	400.3	5.2	5/8	1/2	1,565.00
MCR040R	MCRZ40/4/R	3.1/2	68	9,459	8,870	400.3	6.5	5/8	1/2	1,758.00
MCR050R	MCRZ50/4/R	4	86	12,614	10,982	400.3	11.0	7/8	3/4	2,041.00
MCR064R	MCRZ64/4/R	5	108	15,898	14,165	400.3	11.0	7/8	3/4	2,124.00
MCR080R	MCRZ80/4/R	6.1/2	136	20,048	17,942	400.3	11.0	1.1/8	3/4	2,266.00
MCR100R	MCRZ100/4/R	8.1/2	171	24,051	21,634	400.3	11.0	1.1/8	7/8	2,842.00
MCR125R	MCRZ125/4/R	10	215	30,484	28,497	400.3	14.5	1.1/8	7/8	3,149.00
MCR160R	MCRZ160/4/R	13	272	38,656	36,207	400.3	14.5	1.1/8	7/8	3,509.00

Larger liquid receivers on request.

## WATER COOLED UNITS

Supplied with suction and discharge valves, two way water regulator and Crankcase heater.

(Models with three way valve also available).

Brazed plate heat exchanger.

### R404A/407C/134A – LOW/MEDIUM/HIGH BACK PRESSURE

LWU600R	WME18-5M18	1.1/2	30	3,951	3,269	240.1	3.4	1/2	3/8	1,915.00
LWU610R	WME18-4M18	1.1/2	30	3,951	3,269	400.3	3.4	1/2	3/8	1,876.00
LWU620R	WME22-5M18	1.3/4	38	4,739	4,146	240.1	3.4	1/2	3/8	2,101.00
LWU630R	WME22-4M18	1.3/4	38	4,739	4,146	400.3	3.4	1/2	3/8	2,010.00
LWU640R	WME28-5M18	2.1/4	48	5,967	5,283	240.1	5.2	1/2	3/8	2,161.00
LWU650R	WME28-4M18	2.1/4	48	5,967	5,283	400.3	5.2	1/2	3/8	2,094.00
LWU660R	WME32-5M18	2.3/4	54	6,898	5,955	240.1	5.2	5/8	3/8	2,098.00
LWU670R	WME32-4M18	2.3/4	54	6,898	5,955	400.3	5.2	5/8	3/8	2,132.00
LWU680R	WME36-4M18	3	61	7,783	6,845	400.3	5.2	5/8	1/2	2,231.00
LWU690R	WME40-4M18	3.1/2	68	8,578	7,804	400.3	11.0	7/8	1/2	2,538.00
LWU700R	WME50-4M18	4	86	11,431	9,549	400.3	11.0	7/8	1/2	2,776.00
LWU710R	WME64-4M18	5	108	14,450	12,308	400.3	11.0	1.1/8	1/2	3,075.00
LWU720R	WME80-4M18	6.1/2	136	18,370	15,706	400.3	11.0	1.1/8	1/2	3,392.00
LWU730R	WME100-4M25	8.1/2	171	21,746	18,899	400.3	14.5	1.1/8	1/2	3,930.00
LWU740R	WME125-4M25	10	215	27,774	25,081	400.3	14.5	1.1/8	1/2	4,391.00
LWU750R	WME160-4M25	13	272	35,224	31,836	400.3	14.5	1.1/8	1/2	5,180.00

Units upto/including WM80 are supplied fully housed.

Capacity at 38°C cond.,  
0°C evap, 8k total superheat,  
water inlet temp, 15°C.

Water Connection Sizes.

WM18-40 – 15mm

WM50-100 – 22mm

WM125-160 – 28 mm

**CONDENSING UNIT  
ACCESSORIES****FAN MOTOR ASSEMBLIES – OPTYMA UNITS**

CODE	DESCRIPTION	(MB) £ LIST
MCU530	1PH MOTOR ASSEMBLY – MGZD030	171.05
MCU534	1PH MOTOR ASSEMBLY – MCZC030, MGZD038-054	243.42
MCU536	1PH MOTOR ASSEMBLY – MCZC038-060, MGZD060-096, LCHC068-096	269.74
MCU538	1PH MOTOR ASSEMBLY – MCZC068-096, MGZD108-121, LCHC108-136	378.29
MCU540	1PH MOTOR ASSEMBLY – MGZD136-171	410.09
MCU786	1PH MOTOR ASSEMBLY – MCZC108-171, MGZD215-242, LCHC215-271	1,084.44
MCU788	1PH MOTOR ASSEMBLY – MGZD271	982.46

Motor assembly includes motor, blade, guard and brackets.

**FAN MOTOR ASSEMBLIES – OPTYMA PLUS UNITS**

MCU800	1PH MOTOR ASSEMBLY (25W) – MPHCO18, LPHCO18-026	171.31
MCU802	1PH MOTOR ASSEMBLY (75W) – MPZC030-060, LPHCO48-068	179.26
MCU804	1PH MOTOR ASSEMBLY (130W) – MPZC086-215, LPHCO96-271	210.88
MCU806	FAN BLADE (14") – MPHCO18, LPHCO18-026	23.74
MCU808	FAN BLADE (16") – MPZC030-060, LPHCO48-068	36.92
MCU810	FAN BLADE (24") – MPZC086-215, LPHCO96-271	68.54

**FAN MOTOR ASSEMBLIES – BLUE STAR UNITS**

MCU530	1PH MOTOR ASSEMBLY – A3/B3/C3	171.05
MCU534	1PH MOTOR ASSEMBLY (S2) – D3/E3/F3	243.42
MCU536	1PH MOTOR ASSEMBLY – G3/H3	269.74
MCU538	1PH MOTOR ASSEMBLY – J3	378.29
MCU540	1PH MOTOR ASSEMBLY – K3/L3/M3/N3	410.09
MCU542	1PH MOTOR ASSEMBLY – P3/Q3	1,186.41
MCU550	3PH MOTOR ASSEMBLY – A3/B3/C3	211.62
MCU554	3PH MOTOR ASSEMBLY (S2) – D3/E3/F3	243.42
MCU556	3PH MOTOR ASSEMBLY – G3/H3	252.30
MCU558	3PH MOTOR ASSEMBLY – J3	370.62
MCU560	3PH MOTOR ASSEMBLY – K3/L3/M3/N3	534.00
MCU562	3PH MOTOR ASSEMBLY – P3/Q3	1,020.84

Motor assembly includes motor, blade, guard and brackets.

**SOFT STARTING EQUIPMENT**

CODE	DESCRIPTION	SUITABLE FOR	(MB) £ NET
MAS696	1 PHASE SOFT START 25A	MTZ 18-50, NTZ 048-068	238.01
MAS697	3 PHASE SOFT START 15A	MTZ 18-80, SZ 84-110, NTZ 048-215	396.00
MAS698	3 PHASE SOFT START 25A	MTZ 100-160, SZ 115-185, NTZ 271	722.49

## CELLAR COOLING SPLIT SYSTEMS - JCC2



## CELLAR COOLING SPLIT SYSTEMS - JCC2

CODE	DUTY KW	MAX PIPE RUN	SUPPLY	LIST £ (ZV)
JCC-25E	2.87	12m	230/1/50	1,253.00
JCC-40E	4.31	15m	230/1/50	1,606.00
JCC-50E	4.78	15m	230/1/50	1,829.00
JCC-60E	5.82	15m	230/1/50	2,051.00

All systems are pre-charged for 7.6m pipe run. Suitable down to 4°C (40°F).  
Outdoor wall bracket: BRAK048

Matched systems (unit coolers and condensing unit)

Rotary compressor, electronic controller, LP switch, low noise levels.

Cooler six fins per inch. Duties at cellar temperature of 12.7°C (55°F), ambient 32°C (90°F) on R410A.

Extended warranty: see inside back cover.

## CELLAR COOLING TWIN SPLIT SYSTEMS - CCS

Twin coolers matched to JEHS Fusion Scroll outdoor unit.

Systems are supplied with 2 x Danfoss T2 expansion valves and suitable orifices.

All cellar coolers are 230/1/50Hz power supply quoted on right is for the outdoor unit.

## CELLAR COOLING TWIN SPLIT SYSTEMS - CCS

CODE	DUTY KW	INDOOR UNIT (x2)	OUTDOOR UNIT (x1)	MAX PIPE RUN	SUPPLY	LIST £ (BM)
CCS7200-TWIN	7.2	JCC2-40E	JEHS-0300-M-1	50m	230/1/50	2,596.00
CCS8400-TWIN	8.4	JCC2-50E	JEHS-0350-M-1	50m	230/1/50	3,007.00
CCS10200-TWIN	10.2	JCC2-60E	JEHS-0400-M-1	50m	230/1/50	3,243.00
CCS7200T-TWIN	7.2	JCC2-40E	JEHS-0300-M-3	50m	400/3/50	2,596.00
CCS8400T-TWIN	8.4	JCC2-50E	JEHS-0350-M-3	50m	400/3/50	2,955.00
CCS10200T-TWIN	10.2	JCC2-60E	JEHS-0400-M-3	50m	400/3/50	3,212.000

Twin systems for R404A are supplied with a nitrogen holding charge only!  
Duties at cellar temperature of 10°C (50°F) with an ambient of 32°C (90°F)

## AMBIENT BEER COOLER SYSTEMS



## AMBIENT BEER COOLER SYSTEM

CODE	SUPPLY	WEIGHT (Kg)	FUSE RATING (Amps)	LIST £ (ZV)
JABC-1	230.1	12	6	694.00
JABC-KIT	-	-	-	22.00

The JABC-KIT consists of an outside wall grille, 2 internal door relief grilles, 1 x 500mm length of 150mm plastic ducting.

This wall mounted unit draws ambient air into the cellar when the outside ambient falls to +8°C or below, when wired in conjunction with an existing cellar cooling system savings of up to 40% can be achieved. Fresh air entry at rear as standard but base entry is also possible.

## CELLAR UNIT COOLER

*Cellartemp*



## R404A CELLAR UNIT COOLER/HEATER ONLY (R407F ON APPLICATION)

CODE	MODEL	NO. OF FANS	HEATER kW	CAPACITY		AIR THROW FT	EXP. VALVE	DIGITAL THERMOSTAT	(BM) LIST EA
				WATTS	BTU/HR				
SPE115	CTP 16-60	1	2.0	2,200	7,509	46	FITTED	FITTED	650.00
SPE125	CTP 16-70	1	2.0	2,530	8,635	46	FITTED	FITTED	670.00
SPE135	CTP 16-90	1	2.0	3,410	11,638	43	FITTED	FITTED	750.00
SPE145	CTP 26-125	2	2.5	4,510	15,392	49	FITTED	FITTED	850.00
SPE155	CTP 26-170	2	2.5	5,280	18,020	49	FITTED	FITTED	950.00
SPE165	CTP 36-200	3	2.5	7,590	25,904	53	FITTED	FITTED	1,132.00
SPE175	CTP 36-250	3	2.5	10,120	34,539	53	FITTED	FITTED	1,197.00

All units are single phase. For use with remote condensing units. Designed for "pumpdown" option.  
For matched systems see page 19.

Cellartemp cooler incorporates a digital heat/cool thermostat, expansion valve, electric space heater and solenoid valve.

Capacity based on 5°C. evap., 7°C. TD.

## OPTIONAL EXTRAS – CELLAR COOLERS

CODE	DESCRIPTION	£ EA
BRAK011	PAIR OF GALLOW BRACKETS FOR CTP COOLERS	50.00

**BEER CELLARS BELOW GROUND AT +10°C. REFRIGERANT R404A. USING KD HOUSED LOW NOISE UNITS WITH CELLARTEMP COOLERS**

PACKAGE CODE	ROOM VOLUME		DUTY (WATTS)		CONDENSING UNIT			EVAPORATOR NO. OF FANS	EXPANSION VALVE & ORIFICE	SOLENOID VALVE	CONTROL PANEL	NOT SUPPLIED	
	M3	FT3	REQUIRED	ACTUAL	MODEL	SUPPLY	NOISE LEVEL					LIQUID LINE	SUCTION LINE
QCS1900	21	750	1,750	1,900	PADO08M1	230.1	33	CTP16-60	PRE-FITTED	BUILT IN	3/8"	1/2"	
QCS2250	28	1,000	1,930	2,250	PADO10M1	230.1	33	CTP16-70	PRE-FITTED	BUILT IN	3/8"	1/2"	
QCS3250	42	1,500	2,770	3,250	PADO12M1	230.1	33	CTP16-90	PRE-FITTED	BUILT IN	3/8"	1/2"	
QCS3500	51	1,800	3,300	3,500	PALO15M1	230.1	32	CTP16-90	PRE-FITTED	BUILT IN	3/8"	1/2"	
QCS3700	57	2,000	3,660	3,700	IPALO15M1	230.1	32	CTP26-125	PRE-FITTED	BUILT IN	3/8"	5/8"	
QCS5100	85	3,000	4,400	5,100	IPALO20M1	230.1	32	CTP26-170	PRE-FITTED	BUILT IN	1/2"	3/4"	
QCS6050	125	4,400	5,540	6,050	IPALO25M1	230.1	32	CTP36-200	PRE-FITTED	BUILT IN	1/2"	3/4"	
QCS7200	141	5,000	6,000	7,200	IPALO30M1	230.1	39	CTP36-200	PRE-FITTED	BUILT IN	1/2"	7/8"	
QCS8000	148	5,250	7,325	8,000	IPALO30M1	230.1	39	CTP36-250	PRE-FITTED	BUILT IN	1/2"	7/8"	
QCS8001	148	5,250	7,325	8,000	IPALO36M1	230.1	39	CTP36-200	PRE-FITTED	BUILT IN	1/2"	7/8"	
QCS8600	175	6,183	7,835	8,600	IPALO36M1	230.1	39	CTP36-250	PRE-FITTED	BUILT IN	1/2"	7/8"	
QCS10000T	245	8,660	9,375	10,000	IPALO40M3	400.3	39	CTP36-250	PRE-FITTED	BUILT IN	1/2"	7/8"	

PAD units use Danfoss compressors. PAL units use Copeland scroll compressors. Units ending M1 are 1 phase, ending M3 are 3 phase. Noise levels are in dB(A) at 10m free field. CTP evaporators are fitted with electric space heaters to provide heating to the cellar in addition to cooling. Off cycle defrost.

**BEER CELLARS BELOW GROUND AT +10°C. REFRIGERANT R404A. USING KD HOUSED LOW NOISE UNITS WITH UNIVAP COOLERS**

PACKAGE CODE	ROOM VOLUME	DUTY (WATTS)		CONDENSING UNIT			EVAPORATOR NO. OF FANS	EXPANSION VALVE & ORIFICE	SOLENOID VALVE	CONTROL PANEL	NOT SUPPLIED	
		REQUIRED	ACTUAL	MODEL	SUPPLY	NOISE LEVEL					LIQUID LINE	SUCTION LINE
CCS1910	21	750	1,750	1,910	PADO08M1	230.1	33	DM2-ED	V10S3	ECP200	3/8"	1/2"
CCS2360	28	1,000	1,930	2,360	PADO10M1	230.1	33	DM3-ED	V10S3	ECP200	3/8"	1/2"
CCS3327	42	1,500	2,770	3,327	PADO12M1	230.1	33	DM4-ED	V10S3	ECP200	3/8"	1/2"
CCS3770	57	2,000	3,660	3,770	IPALO15M1	230.1	32	DM6-ED	V10S3	ECP200	3/8"	1/2"
CCS5100	85	3,000	4,400	5,100	IPALO20M1	230.1	32	TCH/E4	V10S3	ECP200	3/8"	5/8"
CCS6000	113	4,000	6,000	6,000	IPALO25M1	230.1	32	TCM/E5	V13S4	ECP200	1/2"	3/4"
CCS7640	140	5,000	7,325	7,640	IPALO30M1	230.1	39	TCH/E5	V13S4	ECP200	1/2"	3/4"
CCS10200T	226	8,000	9,375	10,200	IPALO40M3	400.3	39	TCH/E6	V13S4	ECP300	1/2"	7/8"
CCS12700T	283	10,000	11,600	12,700	2PALO50M3	400.3	40	TCH/E7	V13S4	ECP300	1/2"	7/8"

PAD units use Danfoss compressors. PAL units use Copeland scroll compressors. Units ending M1 are 1 phase, ending M3 are 3 phase. Noise levels are in dB(A) at 10m free field. Evaporators are for off-cycle defrost.

**BEER CELLARS ABOVE GROUND AT +10°C. REFRIGERANT R404A. USING KD HOUSED LOW NOISE UNITS WITH CELLARTEMP COOLERS**

PACKAGE CODE	ROOM VOLUME		DUTY (WATTS)		CONDENSING UNIT			EVAPORATOR NO. OF FANS	EXPANSION VALVE & ORIFICE	SOLENOID VALVE	CONTROL PANEL	NOT SUPPLIED	
	M3	FT3	REQUIRED	ACTUAL	MODEL	SUPPLY	NOISE LEVEL					LIQUID LINE	SUCTION LINE
QCS1900	14	500	1,705	1,900	PADO08M1	230.1	33	CTP16-60	PRE-FITTED	BUILT IN	3/8"	1/2"	
QCS2250	21	750	2,100	2,250	PADO10M1	230.1	33	CTP16-70	PRE-FITTED	BUILT IN	3/8"	1/2"	
QCS3250	28	1,000	2,430	3,250	PADO12M1	230.1	33	CTP16-90	PRE-FITTED	BUILT IN	3/8"	1/2"	
QCS3500	42	1,500	3,165	3,500	IPALO15M1	230.1	32	CTP16-90	PRE-FITTED	BUILT IN	3/8"	1/2"	
QCS3700	54	1,900	3,770	3,700	IPALO15M1	230.1	32	CTP26-125	PRE-FITTED	BUILT IN	3/8"	5/8"	
QCS5100	79	2,820	4,000	5,100	IPALO20M1	230.1	32	CTP26-170	PRE-FITTED	BUILT IN	1/2"	3/4"	
QCS6050	85	3,000	5,275	6,050	IPALO25M1	230.1	32	CTP36-200	PRE-FITTED	BUILT IN	1/2"	3/4"	
QCS7200	129	4,000	7,000	7,200	IPALO30M1	230.1	39	CTP36-200	PRE-FITTED	BUILT IN	1/2"	7/8"	
QCS8000	135	4,760	7,550	8,000	IPALO30M1	230.1	39	CTP36-250	PRE-FITTED	BUILT IN	1/2"	7/8"	
QCS8600	170	6,007	8,100	8,600	IPALO36M1	230.1	39	CTP36-250	PRE-FITTED	BUILT IN	1/2"	7/8"	
QCS10000T	226	8,000	8,610	10,000	IPALO40M3	400.3	39	CTP36-250	PRE-FITTED	BUILT IN	1/2"	7/8"	

PAD units use Danfoss compressors. PAL units use Copeland scroll compressors. Units ending M1 are 1 phase, ending M3 are 3 phase. Noise levels are in dB(A) at 10m free field. CTP evaporators are fitted with electric space heaters to provide heating to the cellar in addition to cooling. Off cycle defrost.

**BEER CELLARS ABOVE GROUND AT +10°C. REFRIGERANT R404A. USING KD HOUSED LOW NOISE UNITS WITH UNIVAP COOLERS**

PACKAGE CODE	ROOM VOLUME	DUTY (WATTS)		CONDENSING UNIT			EVAPORATOR NO. OF FANS	EXPANSION VALVE & ORIFICE	SOLENOID VALVE	CONTROL PANEL	NOT SUPPLIED	
		REQUIRED	ACTUAL	MODEL	SUPPLY	NOISE LEVEL					LIQUID LINE	SUCTION LINE
CCS1910	14	500	1,705	1,910	PADO08M1	230.1	33	DM2-ED	V10S3	ECP200	3/8"	1/2"
CCS2360	28	1,000	2,430	2,360	PADO10M1	230.1	33	DM3-ED	V10S3	ECP200	3/8"	1/2"
CCS3570	42	1,500	3,165	3,570	PADO12M1	230.1	33	DM5-ED	V10S3	ECP200	3/8"	1/2"
CCS3770	57	2,000	3,980	3,770	IPALO15M1	230.1	32	DM6-ED	V10S3	ECP200	3/8"	5/8"
CCS5100	85	3,000	5,270	5,100	IPALO20M1	230.1	32	TCH/E4	V10S3	ECP200	3/8"	5/8"
CCS7640	113	4,000	6,740	7,640	IPALO30M1	230.1	39	TCH/E5	V13S4	ECP200	1/2"	3/4"
CCS8540	140	5,000	7,820	8,540	IPALO36M1	230.1	39	TCM/E6	V13S4	ECP200	1/2"	3/4"
CCS8890	226	8,000	8,610	8,890	IPALO36M3	230.1	39	TCH/E7	V13S4	ECP300	1/2"	7/8"
CCS12560T	283	10,000	12,450	12,560	2PALO50M3	400.3	40	TCH/E8	V13S4	ECP300	1/2"	7/8"

PAD units use Danfoss compressors. PAL units use Copeland scroll compressors. Units ending M1 are 1 phase, ending M3 are 3 phase. Noise levels are in dB(A) at 10m free field. Evaporators are for off-cycle defrost and are single phase. Complete packages include all items as shown in the above tables, excepting liquid and suction lines which are available to separate order.

## HUBBARD SEMI-HERMETIC CONDENSING UNITS

# Frascold



Fitted with HP/LP, liquid receiver with pressure relief valve, service valves, vibration eliminator, prewired. Oil diff switch (on units with oil pump).

Capacities quoted at 32°C for R404A with a suction return gas temperature of +20°C. No liquid subcooling.

(Photo shows dressed unit).

CODE	MODEL	APPROX. HP	CAPACITY			SUPPLY		RECEIVER LITRE	HOUSING SIZE	DRIER & S/GLASS	(RP) LIST £
			0°C	-15°C	-35°C	COMP.	FAN				
HUB300	SA 0.5-4A	0.5	2,530	1,610	650	230.1	230.1	2.4	01	A	2,105.00
HUB302	SA 0.5-4A	0.5	2,530	1,610	650	400.3	230.1	2.4	01	A	1,858.00
HUB304	SA 0.5-5A	0.5	-	1,870	770	230.1	230.1	2.4	01	A	2,107.00
HUB306	SA 0.5-5A	0.5	-	1,870	770	400.3	230.1	2.4	01	A	1,858.00
HUB308	SA 0.7-5A	0.75	3,380	2,080	820	230.1	230.1	2.4	02	A	2,223.00
HUB310	SA 0.7-5A	0.75	3,380	2,080	820	400.3	230.1	2.4	02	A	1,997.00
HUB312	SA 0.7-6A	0.75	-	2,010	840	230.1	230.1	2.4	01	A	2,114.00
HUB314	SA 0.7-6A	0.75	-	2,010	840	400.3	230.1	2.4	01	A	1,887.00
HUB316	SA 1-6A	1.0	3,670	2,260	900	230.1	230.1	2.4	02	A	2,233.00
HUB318	SA 1-6A	1.0	3,670	2,260	900	400.3	230.1	2.4	02	A	1,994.00
HUB320	SA 1-7A	1.0	-	2,700	1,100	230.1	230.1	2.4	02	A	2,231.00
HUB322	SA 1-7A	1.0	-	2,700	1,100	400.3	230.1	2.4	02	A	2,005.00
HUB324	SA 1.5-7A	1.5	4,990	3,000	1,170	230.1	230.1	5.7	03	A	2,469.00
HUB326	SA 1.5-7A	1.5	4,990	3,000	1,170	400.3	230.1	5.7	03	A	2,265.00
HUB328	SA 1.5-9B	1.5	-	3,270	1,380	230.1	230.1	2.4	02	A	2,333.00
HUB330	SA 1.5-9B	1.5	-	3,270	1,380	400.3	230.1	2.4	02	A	2,097.00
HUB332	SA 2-10B	2.0	6,540	4,110	1,680	230.1	230.1	5.7	03	A	2,608.00
HUB334	SA 2-10B	2.0	6,540	4,110	1,680	400.3	230.1	5.7	03	A	2,380.00
HUB336	SA 2-10B/2	2.0	7,140	4,340	1,740	230.1	230.1	5.7	04	A	2,892.00
HUB338	SA 2-10B/2	2.0	7,140	4,340	1,740	400.3	230.1	5.7	04	A	2,674.00
HUB340	SA 2-11D	2.0	6,910	4,420	1,830	400.3	230.1	5.7	03	A	2,474.00
HUB342	SA 2-11D/2	2.0	7,840	4,780	1,910	400.3	230.1	5.7	04	A	2,766.00
HUB344	SA 2-13D	2.0	-	5,080	2,190	400.3	230.1	5.7	03	A	2,490.00
HUB346	SA 2-13D/2	2.0	-	5,600	2,310	400.3	230.1	5.7	04	A	2,766.00
HUB348	SA 3-13D	3.0	-	5,050	-	400.3	230.1	5.7	03	B	2,554.00
HUB350	SA 3-13D/2	3.0	9,000	5,560	-	400.3	230.1	5.7	05	B	3,064.00
HUB352	SA 2-15D	2.0	-	-	2,540	400.3	230.1	5.7	03	A	2,484.00
HUB354	SA 3-15D	3.0	-	5,460	2,410	400.3	230.1	5.7	03	B	2,554.00
HUB356	SA 3-18D	3.0	-	6,210	2,950	400.3	230.1	5.7	03	B	2,582.00
HUB358	SA 3-18D/2	3.0	-	7,050	3,130	400.3	230.1	5.7	04	B	2,862.00
HUB360	SA 4-16D/2	4.0	11,010	6,910	-	400.3	230.1	7.0	05	B	3,361.00
HUB362	SA 4-18D/2	4.0	11,720	7,410	-	400.3	230.1	7.0	05	B	3,376.00
HUB364	SA 4-16F/2	4.0	11,110	6,940	-	400.3	230.1	7.0	05	B	3,727.00
HUB366	SA 4-19F/2	4.0	12,590	8,080	3,570	400.3	230.1	7.0	05	B	3,742.00
HUB368	SA 4-24F/2	4.0	-	9,500	4,360	400.3	230.1	7.0	05	B	3,803.00
HUB370	SA 5-19F/2	5.0	14,210	8,650	-	400.3	230.1	12.0	08	C	4,605.00
HUB372	SA 5-25F/2	5.0	-	10,000	4,640	400.3	230.1	7.0	05	B	3,937.00
HUB374	SA 7-25Q/2	7.5	-	11,000	4,770	400.3	400.3	12.0	08	D	4,990.00
HUB376	SA 5-28Q/2	5.0	-	10,720	5,110	400.3	230.1	7.0	05	B	4,205.00
HUB378	SA 7-28Q/2	7.5	18,750	11,650	-	400.3	400.3	12.0	08	D	5,103.00
HUB380	SA 5-33S/2	5.0	-	-	5,600	400.3	230.1	7.0	06	C	4,494.00
HUB382	SA 7-33S/2	7.5	21,610	13,600	-	400.3	400.3	12.0	08	C	5,546.00
HUB384	SA 7-39S/2	7.5	-	15,290	7,010	400.3	400.3	12.0	08	C	5,573.00
HUB386	SA 10-39S/2	10.0	27,480	17,190	-	400.3	400.3	19.0	09	F	6,561.00
HUB388	SA 10-51S/2	10.0	-	19,070	8,820	400.3	400.3	12.0	08	C	5,815.00
HUB390	SA 15-51S/2 PWS	15.0	33,150	20,910	-	400.3	400.3	19.0	09	F	6,711.00
HUB392	SA 15-56S/2 PWS	15.0	-	23,290	10,170	400.3	400.3	19.0	09	F	6,904.00
HUB394	SA 20-56S/2 PWS	20.0	37,900	23,890	-	400.3	400.3	19.0	09	E	7,062.00
HUB396	SA 20-59V/2 PWS	20.0	38,170	24,250	-	400.3	400.3	19.0	09	E	8,273.00
HUB398	SA 15-71V/2 PWS	15.0	-	-	11,180	400.3	400.3	12.0	08	D	7,441.00
HUB400	SA 25-71V/2 PWS	25.0	42,380	27,500	-	400.3	400.3	19.0	09	E	8,499.00
HUB402	SA 20-84V/2 PWS	20.0	-	30,900	14,770	400.3	400.3	19.0	09	F	8,445.00
HUB404	SA 30-84V/2 PWS	30.0	-	33,238	-	400.3	400.3	19.0	10	E	9,709.00
HUB406	SA 25-106Z/2 PWS	25.0	-	39,263	18,142	400.3	400.3	19.0	10	E	10,960.00
HUB408	SA 30-126Z/2 PWS	30.0	-	43,906	21,026	400.3	400.3	19.0	10	E	11,181.00

For housings, driers/sightglasses and other accessories see page 21.  
For full application range of each unit, please contact our technical department.  
Compressor/receiver sets: Prices on Application

## FRASCOLD ACCESSORIES




## OUTDOOR HOUSINGS

CODE	MODEL	DESCRIPTION	(RP) £ LIST
HUB502	A4898-01	HOUSING SIZE 01	246.00
HUB504	A4898-02	HOUSING SIZE 02	269.00
HUB506	A4898-03	HOUSING SIZE 03	291.00
HUB508	A4898-04	HOUSING SIZE 04	356.00
HUB510	A4898-05	HOUSING SIZE 05	392.00
HUB512	A4898-06	HOUSING SIZE 06	414.00
HUB514	A4898-08	HOUSING SIZE 08	505.00
HUB516	A4898-09	HOUSING SIZE 09	590.00
HUB518	A4898-10	HOUSING SIZE 10	712.00

## CRANKCASE HEATERS

CODE	DESCRIPTION	(RP) £ LIST
HUB530	SA 0.5 TO SA 14-18D/2	115.00
HUB532	SA 4-16F/2 TO SA 20-56S/2	115.00
HUB534	SA 20-59V/2 TO SA 30-126Z/2	151.00

## LIQUID LINE DRIER &amp; SIGHTGLASS

HUB540	SIZE A	119.00
HUB542	SIZE B	118.00
HUB544	SIZE C	172.00
HUB546	SIZE D	181.00
HUB548	SIZE E	446.00
HUB550	SIZE F	275.00

## CONTROL CIRCUIT ISOLATOR

HUB555	TYPE 1	175.00
HUB556	TYPE 2	220.00

## FAN SPEED CONTROLLER

HUB580	SINGLE PHASE FANS	202.00
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## OTHER OPTIONS

HUB588	CONDENSER HP SWITCH	137.00
HUB590	AUTO LP SWITCH	102.00

Oil separators from £425.00.

Oil return solenoid and SG: from £239.00.

Capacity control (available from 7hp): POA.

Suction line accumulator from POA.

Crankcase regulator from POA.

All options factory fitted.

## BITZER SEMI-HERMETIC CONDENSING UNITS



New Ecoline compressor, unit fitted with crankcase heater, liquid receiver with shut off valve (relief valve connection from LH104E upwards), ester oil.

Capacities are quoted at 32°C ambient with R404A and a suction gas return temperature of +20°C.

Units with 2 stage compressors (BTU184 to BTU194) have an evap temp range of -30°C to -60°C.

CODE	MODEL	CAPACITY (WATTS)			SUPPLY		RECEIVER KG	(R1) LIST £
		0°C	-15°C	-35°C	COMP.	FAN		
BTU100	LH32E/2KES-05Y	2,860	1,640	535	400.3	230.1	2.9	2,457.00
BTU102	LH32E/2JES-0.7Y	3,640	2,160	785	400.3	230.1	2.9	2,465.00
BTU106	LH33E/2HES-1Y	4,260	2,610	1,000	400.3	230.1	2.9	2,490.00
BTU110	LH33E/2HES-2Y	4,370	2,670	1,020	400.3	230.1	2.9	2,512.00
BTU114	LH33E/2GES-2Y	4,770	2,980	1,210	400.3	230.1	2.9	2,512.00
BTU118	LH44E/2GES-2Y	5,050	310	1,230	400.3	230.1	5.4	2,651.00
BTU122	LH44E/2FES-2Y	-	3,650	1,470	400.3	230.1	5.4	2,711.00
BTU126	LH44E/2FES-3Y	5,760	3,640	1,470	400.3	230.1	5.4	2,780.00
BTU128	LH44E/2EES-2Y	-	4,460	1,860	400.3	230.1	5.4	3,293.00
BTU130	LH64E/2EES-3Y	8,710	5,240	2,020	400.3	230.1	7.5	4,069.00
BTU132	LH53E/2DES-2Y	-	5,640	2,340	400.3	230.1	5.4	3,643.00
BTU134	LH64E/2DES-3Y	9,950	6,110	2,430	400.3	230.1	7.5	4,078.00
BTU136	LH64E/2CES-3Y	-	7,270	3,030	400.3	230.1	7.5	4,069.00
BTU138	LH84E/2CES-4Y	12,630	7,720	3,120	400.3	230.1	12.5	4,605.00
BTU140	LH64E/4FES-3Y	-	7,670	3,240	400.3	230.1	7.5	4,252.00
BTU142	LH84E/4FES-5Y	13,490	8,180	3,340	400.3	230.1	12.5	4,942.00
BTU144	LH64E/4EES-4Y	-	9,170	3,990	400.3	230.1	7.5	4,312.00
BTU146	LH84E/4EES-6Y	15,910	9,810	4,030	400.3	230.1	12.5	5,107.00
BTU148	LH84E/4DES-5Y	-	11,420	4,860	400.3	230.1	12.5	5,384.00
BTU150	LH104E/4DES-7Y	20,350	12,320	5,040	400.3	230.1	14.4	7,062.00
BTU152	LH84E/4CES-6Y	-	13,130	5,620	400.3	230.1	12.5	5,685.00
BTU154	LH114E/4CES-9Y	24,500	14,770	5,970	400.3	230.1	14.4	7,786.00
BTU156	LH104E/4TES-9Y	-	17,050	6,950	400.3	230.1	14.4	8,373.00
BTU158	LH114E/4TES-12Y	29,000	17,700	7,060	400.3	230.1	14.4	8,983.00
BTU160	LH114E/4PES-12Y	-	19,430	7,610	400.3	230.1	14.4	9,169.00
BTU162	LH135E/4PES-15Y	36,150	21,200	7,880	400.3	230.1	28.8	11,805.00
BTU164	LH124E/4NES-14Y	-	23,000	9,430	400.3	230.1	28.8	10,385.00
BTU168	LH135E/4NES-20Y	41,100	24,800	9,810	400.3	230.1	28.8	12,552.00
BTU170	LH135E/4JE-15Y	-	28,100	11,580	400.3	230.1	28.8	14,112.00
BTU172	LH135E/4JE-22Y	44,400	27,350	10,900	400.3	230.1	28.8	14,497.00
BTU174	LH135E/4HE-18Y	-	31,800	13,650	400.3	230.1	28.8	14,131.00
BTU176	LH135E/4HE-25Y	49,250	31,300	13,120	400.3	230.1	28.8	14,516.00
BTU178	LH135E/4GE-23Y	-	35,500	15,920	400.3	230.1	28.8	15,039.00
BTU180	LH135E/6JE-25Y	-	37,800	16,380	400.3	230.1	28.8	15,874.00
BTU182	LH135E/6HE-28Y	-	41,700	18,920	400.3	230.1	28.8	16,155.00
BTU184	LH104E/S4T-5.2Y	-	-	6,120	400.3	230.1	14.4	9,901.00
BTU186	LH104E/S4N-8.2Y	-	-	8,610	400.3	230.1	14.4	10,511.00
BTU188	LH124E/S4G-12.2Y	-	-	13,580	400.3	230.1	28.8	14,144.00
BTU190	LH135E/6J-16.2Y	-	-	19,220	400.3	230.1	28.8	18,220.00
BTU192	LH135E/S6H-20.2Y	-	-	22,000	400.3	230.1	28.8	18,514.00
BTU194	LH135E/S6G-25.2Y	-	-	25,000	400.3	230.1	28.8	19,923.00

## BITZER SEMI-HERMETIC CONDENSING UNITS



## ECOSTAR VARIABLE SPEED - HOUSED - R404A, R134A, R407F, R407A

CODE	MODEL	CAPACITY (WATTS)			SUPPLY		RECEIVER KG	(R2) LIST £
		-5°C	-20°C	-35°C	COMP.	FAN		
BTU450	LHV6/2DES-3.F1Y	5,610-15,150	3,050-8,510	1,420-3,920	400.3	230.1	12.5	13,026.00
BTU452	LHV6/4FES-5.F1Y	7,430-19,030	4,010-11,080	1,900-5,360	400.3	230.1	12.5	13,702.00
BTU454	LHV6/4EES-6.F1Y	9,230-22,450	4,970-13,400	2,320-6,490	400.3	230.1	17.3	14,425.00
BTU456	LHV6/4DES-7.F3Y	11,060-28,600	5,980-16,620	2,830-7,950	400.3	230.1	25.0	15,587.00
BTU458	LHV6/4CES-9.F3Y	13,280-32,950	7,140-19,550	3,330-9,300	400.3	230.1	25.0	16,789.00
BTU460	LHV7E/4DE-7.F3Y	11,150-29,000	6,020-16,760	2,840-8,030	400.3	230.1	20.2	15,587.00
BTU462	LHV7E/4CE-9.F3Y	13,400-33,450	7,200-19,730	3,340-9,400	400.3	230.1	20.2	16,758.00

Capacities are quoted at 30Hz and 87Hz, 32°C ambient with R404A, suction gas return temperature +20°C. The above units are also suitable for R134a, R407F and R407A, capacities available on request.

NOTE: LHV7E units will not be available until Q3 of 2015.



## BITZER SEMI-HERMETIC CONDENSING UNITS



### ECOSTAR VARIABLE SPEED - HOUSED - R134A ONLY

CODE	MODEL	CAPACITY (WATTS)			SUPPLY		RECEIVER KG	(RZ) LIST £
		5°C	-5°C	-15°C	COMP.	FAN		
BTU455	LHV6/4DES-5.F1Y	9,930-27,100	6,450-18,120	3,970-11,220	400.3	230.1	28.7	14,700.00
BTU457	LHV6/4CES-6.F1Y	12,100-32,050	7,920-22,050	4,930-13,890	400.3	230.1	28.7	15,110.00
BTU460	LHV7E/4DE-7.F3Y	9,990-27,300	6,480-18,240	3,980-11,310	400.3	230.1	23.2	15,587.00
BTU462	LHV7E/4CE-9.F3Y	12,180-32,400	7,960-22,200	4,950-14,000	400.3	230.1	23.2	16,758.00
BTU463	LHV7E/4VE-7.F3Y	13,060-34,050	8,460-23,300	5,130-14,142	400.3	230.1	23.2	17,883.00
BTU465	LHV7E/4TE-9.F3Y	15,620-39,400	10,200-27,400	6,250-17,450	400.3	230.1	23.2	17,995.00
BTU467	LHV7E/4PE-12.F3Y	17,880-43,450	11,580-30,300	6,980-19,300	400.3	230.1	23.2	18,365.00
BTU469	LHV7E/4NE-14.F3Y	-	13,630-34,600	8,320-22,600	400.3	230.1	23.2	18,959.00

The above units are suitable for R134a refrigerant only, capacities are quoted at 30Hz and 87Hz using this refrigerant in an ambient of 32°C with a suction gas return temperature of +20°C.

Units include semi-hermetic compressor complete with frequency inverter for stepless capacity control, twin fan air cooled condenser, liquid receiver with shut off valve and sight glass, pressure relief valve connection. Suction and discharge lines, liquid line includes fitted drier and sight glass. Weatherproof housing, protective holding charge, electrical switchboard including main switch, contactors, programmable controller for compressor speed and unit control with connections for analogue inputs, HP & LP transducers, electronic fan speed control, all electrical components are pre-wired, HP pressure switch. OLC-K1 oil level monitoring included except on BTU450 model. LHV7E models will also include a factory fitted LP pressure switch as standard.

Optional extras for LHV7E units include a fitted oil separator with check valve, and a Delta PII oil pressure sensor, please enquire for these additional prices.

NOTE: LHV7E units will not be available until Q3 of 2015.

## ACCESSORIES AND OPTIONS

For LH Units.

### DRESSING – STANDARD MODELS

CODE	MODEL	(R) £ LIST
BTU700	Dress LH32E/2KES-0.5Y to LH44E/2FES-3Y	678.00
BTU702	Dress LH44E/2EES-2Y to LH64E/2CES-3Y	678.00
BTU704	Dress LH84E/2CES-4Y	678.00
BTU706	Dress LH64E/2FES-3Y to LH64E/4EES-4Y	678.00
BTU708	Dress LH84E/4DES-5Y to LH84E/4CES-6Y	678.00
BTU710	Dress LH104E/4DES-7Y	1,191.00
BTU712	Dress LH114E/4CES-9Y to LH135E/4PES-15Y	1,191.00
BTU714	Dress LH124E/4NES-14Y to LH135E/6HE-28Y	1,743.00

Fitted HP/LP switch wired to a terminal strip, liquid line drier/sight glass, liquid line to outer unit edge (up to LH84E only).

### WEATHERPROOF HOUSINGS

BTU600	Housing LH32E units	647.00
BTU605	Housing LH33E units	647.00
BTU610	Housing LH44E units	647.00
BTU615	Housing LH53E units	647.00
BTU620	Housing LH64E units	1,172.00
BTU625	Housing LH84E units	1,172.00
BTU630	Housing LH104E units	2,641.00
BTU635	Housing LH114E units	2,641.00
BTU640	Housing LH124E units	3,305.00
BTU645	Housing LH135E units	3,305.00

### FITTED OIL SEPARATOR

BTU562	LH32E/2KES-0.5Y to LH84E/2CES-4Y	744.00
BTU569	LH64E/4FES-3Y to LH114E/4TES-12Y	979.00
BTU572	LH114E/4PES-12Y to LH135E/6HE-28Y	1,304.00

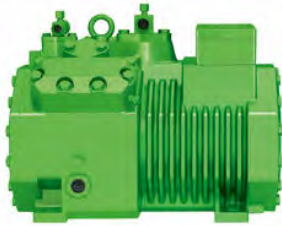
Includes return oil line, sight glass and check valve

### PRESSURE RELIEF VALVE ADAPTORS

CODE	DESCRIPTION	(RP) £ LIST
B366001-03	1.1/4" Rotalock x 7/8" ODS 90° (FOR ECOSTAR UNITS)	26.00
B5268-09-0001	7/8" ODS x 1/2" FPT straight (FOR ECOSTAR UNITS)	31.00
B366005-03	1.1/4" Rotalock x 1/2" FPT straight (FOR LH_E UNITS)	25.00

Ecostar units: Both the B366001-03 and B5268-09-0001 are required to fit a 1/2" MPT pressure relief valve. LH\_E condensing units use the B366005-03 to fit a 1/2" MPT pressure relief valve.

## BITZER SEMI-HERMETIC COMPRESSORS



New Ecoline compressors.

## BITZER COMPRESSORS - CENTRIFUGAL LUBRICATION

CODE	MODEL	SUPPLY	(RL) £ LIST
BTC100	2KES-05Y	3PH	1,370.00
BTC102	2JES-07Y	3PH	1,385.00
BTC104	2HES-1Y	3PH	1,399.00
BTC108	2HES-2Y	3PH	1,426.00
BTC112	2GES-2Y	3PH	1,426.00
BTC116	2FES-2Y	3PH	1,486.00
BTC120	2FES-3Y	3PH	1,557.00
BTC122	2EES-2Y	3PH	2,074.00
BTC124	2EES-3Y	3PH	2,236.00
BTC126	2DES-2Y	3PH	2,157.00
BTC128	2DES-3Y	3PH	2,246.00
BTC130	2CES-3Y	3PH	2,236.00
BTC132	2CES-4Y	3PH	2,334.00
BTC134	4FES-3Y	3PH	2,425.00
BTC136	4FES-5Y	3PH	2,678.00
BTC138	4EES-4Y	3PH	2,484.00
BTC140	4EES-6Y	3PH	2,846.00
BTC142	4DES-5Y	3PH	3,120.00
BTC144	4DES-7Y	3PH	3,280.00
BTC146	4CES-6Y	3PH	3,428.00
BTC148	4CES-9Y	3PH	3,561.00

BTC160	22EES-4Y TANDEM	3PH	4,230.00
BTC162	22EES-6Y TANDEM	3PH	4,561.00
BTC164	22DES-4Y TANDEM	3PH	4,396.00
BTC166	22DES-6Y TANDEM	3PH	4,585.00
BTC168	22CES-6Y TANDEM	3PH	4,561.00
BTC170	22CES-8Y TANDEM	3PH	4,759.00
BTC172	44FES-6Y TANDEM	3PH	4,946.00
BTC174	44FES-10Y TANDEM	3PH	5,466.00
BTC176	44EES-8Y TANDEM	3PH	5,066.00
BTC178	44EES-12Y TANDEM	3PH	5,804.00
BTC180	44DES-10Y TANDEM	3PH	6,362.00
BTC182	44DES-14Y TANDEM	3PH	6,684.00
BTC184	44CES-12Y TANDEM	3PH	6,987.00
BTC186	44CES-18Y TANDEM	3PH	7,259.00

BTC200	4VES-7Y	PWS	4,465.00
BTC202	4VES-10Y	PWS	4,645.00
BTC204	4TES-9Y	PWS	4,583.00
BTC206	4TES-12Y	PWS	4,784.00
BTC208	4PES-12Y	PWS	4,972.00
BTC210	4PES-15Y	PWS	5,188.00
BTC212	4NES-14Y	PWS	5,599.00
BTC214	4NES-20Y	PWS	5,942.00

BTC230	44VES-14Y TANDEM	PWS	8,922.00
BTC232	44VES-20Y TANDEM	PWS	9,280.00
BTC234	44TES-18Y TANDEM	PWS	9,158.00
BTC236	44TES-24Y TANDEM	PWS	9,553.00
BTC238	44PES-24Y TANDEM	PWS	9,935.00
BTC240	44PES-30Y TANDEM	PWS	10,367.00
BTC242	44NES-28Y TANDEM	PWS	11,019.00
BTC244	44NES-40Y TANDEM	PWS	11,876.00

Compressors are supplied with ester oil charge, protective holding charge, suction and discharge valves, 4 anti-vibration mounts, motor PTC sensor with electronic control SE-B1, terminal box enclosure IP65, crankcase heater.

Direct on line start motots for codes BTC100 to BTC186, Part Wind start motors for codes BTC200 to BTC244.

Tandem compressor are supplied with 2 x built-in motors, crankcase heaters, ester oil charge, 1 x suction and 2 x discharge valves, 8 anti-vibration mounts, motors with PTC sensors, 2 x SE-B1 electronic controls, terminal boxes IP65.

**BITZER SEMI-HERMETIC  
COMPRESSORS**


New Ecoline compressors.

**BITZER COMPRESSORS - OIL PUMP LUBRICATION**

CODE	MODEL	SUPPLY	(RL) £ LIST
BTC260	4JE-15Y	PWS	7,367.00
BTC262	4JE-22Y	PWS	7,724.00
BTC264	4HE-18Y	PWS	7,363.00
BTC268	4HE-25Y	PWS	7,746.00
BTC270	4GE-23Y	PWS	8,261.00
BTC272	4GE-30Y	PWS	8,605.00
BTC273	4FE-28Y	PWS	8,568.00
BTC274	6JE-25Y	PWS	9,075.00
BTC275	4FE-35Y	PWS	8,922.00
BTC276	6JE-33Y	PWS	10,428.00
BTC278	6HE-28Y	PWS	9,353.00
BTC280	6HE-35Y	PWS	10,727.00
BTC282	6GE-34Y	PWS	10,727.00
BTC284	6GE-40Y	PWS	11,457.00
BTC286	6FE-44Y	PWS	12,998.00
BTC290	6FE-50Y	PWS	13,349.00
BTC292	8GE-50Y	PWS	15,961.00
BTC294	8GE-60Y	PWS	16,328.00
BTC296	8FE-60Y	PWS	16,896.00
BTC298	8FE-70Y	PWS	17,733.00

BTC312	44JE-30Y TANDEM	PWS	15,112.00
BTC314	44JE-44Y TANDEM	PWS	16,698.00
BTC316	44HE-36Y TANDEM	PWS	15,154.00
BTC318	44HE-50Y TANDEM	PWS	16,735.00
BTC320	44GE-46Y TANDEM	PWS	17,200.00
BTC322	44GE-60Y TANDEM	PWS	17,879.00
BTC324	66JE-50Y TANDEM	PWS	18,881.00
BTC326	66JE-66Y TANDEM	PWS	21,581.00
BTC328	66HE-56Y TANDEM	PWS	19,440.00
BTC330	66HE-70Y TANDEM	PWS	22,184.00
BTC332	66GE-68Y TANDEM	PWS	22,184.00
BTC334	66GE-80Y TANDEM	PWS	23,648.00
BTC336	66FE-88Y TANDEM	PWS	26,733.00
BTC338	66FE-100Y TANDEM	PWS	27,436.00

BTC360	S4T-5.2Y 2 STAGE	PWS	6,032.00
BTC362	S4N-8.2Y 2 STAGE	PWS	6,643.00
BTC364	S4G-12.2Y 2 STAGE	PWS	9,180.00
BTC366	S6J-16.2Y 2STAGE	PWS	11,410.00
BTC368	S6H-20.2Y 2 STAGE	PWS	11,699.00
BTC370	S6G-25.2Y 2 STAGE	PWS	13,097.00
BTC372	S6F-30.2Y 2 STAGE	PWS	15,409.00

BTC390	S66J-32.2Y 2 STAGE TANDEM	PWS	23,457.00
BTC392	S66H-40.2Y 2 STAGE TANDEM	PWS	24,744.00
BTC394	S66G-50.2Y 2 STAGE TANDEM	PWS	27,535.00
BTC396	S66F-60.2Y 2 STAGE TANDEM	PWS	32,170.00

Compressors are supplied with ester oil charge, protective holding charge, suction and discharge valves, 4 anti-vibration mounts, motor PTC sensor with electronic control SE-B2, terminal box enclosure IP54, crankcase heater.

Part Wind start motors for codes BTC260 to BTC396

Two stage compressors are supplied with ester oil charge, protective holding charge, suction and discharge valves, 4 anti-vibration mounts, motor PTC sensors with electronic control SE-B2, terminal box enclosure IP54, built-in pressure relief valve from type SJ-16.2Y (BTC366) interstage pressure line, de-superheating expansion valve, sight glass, drier, solenoid valve (R404A)

Tandem compressor are supplied with 2 x built-in motors, crankcase heaters, ester oil charge, 1 x suction and 2 x discharge valves, 8 anti-vibration mounts, motors with PTC sensors, 2 x SE-B2 electronic controls, terminal boxes IP54.

## COIL BLOCKS

1



Please contact our Technical Department for duties.

Due to packing and handling considerations, our next day delivery service may not be available for these products.

### COIL BLOCK – MODEL NT/H

210mm x 140mm, 10 x 1/2" tubes, 8mm fin space

CODE	MODEL	OVERALL LENGTH (mm)	(RK) £ LIST
COIL 260	NT/H 50	500	69.29
COIL 270	NT/H 70	700	81.69
COIL 280	NT/H 90	900	92.79
COIL 200	NT/H 110	1,100	105.95
COIL 210	NT/H 130	1,300	116.28
COIL 220	NT/H 150	1,500	126.13
COIL 230	NT/H 170	1,700	114.78
COIL 240	NT/H 190	1,900	154.63
COIL 250	NT/H 210	2,100	175.65

### COIL BLOCK – MODEL MD

250mm x 140mm, 14 x 1/2" tubes, 5mm fin space

COIL 805	MD-70	700	112.08
COIL 800	MD-90	900	169.16
COIL 801	MD-110	1,100	207.11
COIL 802	MD-130	1,300	235.77
COIL 803	MD-150	1,500	260.78
COIL 804	MD-170	1,700	292.37

### COIL BLOCK – MODEL PB

140mm x 105mm, 12 x 1/2" tubes, 8mm fin space

COIL 305	PB 50	500	79.23
COIL 310	PB 70	700	91.83
COIL 315	PB 90	900	102.19
COIL 320	PB 110	1,100	108.81
COIL 325	PB 130	1,300	118.96
COIL 330	PB 150	1,500	125.49
COIL 335	PB 170	1,700	133.38
COIL 340	PB 190	1,900	146.83
COIL 345	PB 210	2,100	163.50

### COIL BLOCK – MODEL PB/2

140mm x 105mm, 12 x 1/2" tubes, 5mm fin space

COIL 355	PB/2/70	700	102.85
COIL 360	PB/2/90	900	109.14
COIL 365	PB/2/110	1,100	121.32
COIL 370	PB/2/130	1,300	129.63
COIL 375	PB/2/150	1,500	139.15
COIL 380	PB/2/170	1,700	149.70

### COIL BLOCK – MODEL PB/3

210mm x 105mm, 16 x 1/2" tubes, 5mm fin space

CODE	MODEL	OVERALL LENGTH (mm)	(RK) £ LIST
COIL 400	PB/3/50	500	101.25
COIL 405	PB/3/70	700	134.45
COIL 410	PB/3/90	900	153.23
COIL 415	PB/3/110	1,100	172.48
COIL 420	PB/3/130	1,300	192.54
COIL 425	PB/3/150	1,500	209.71
COIL 430	PB/3/170	1,700	228.47
COIL 435	PB/3/190	1,900	250.01

### COIL BLOCK – MODEL PB/4

280mm x 105mm, 24 x 1/2" tubes, 5mm fin space

COIL 507	PB/4/50	500	185.59
COIL 505	PB/4/70	700	211.24
COIL 510	PB/4/90	900	232.58
COIL 515	PB/4/110	1,100	251.69
COIL 520	PB/4/130	1,300	273.59
COIL 525	PB/4/150	1,500	299.86
COIL 530	PB/4/170	1,700	326.447

### COIL BLOCK – MODEL TR/011

110mm x 70mm, 6 x 1/2" tubes, 8mm fin space

COIL 765	TR 5011	500	52.65
COIL 775	TR 7011	700	62.05
COIL 785	TR 9011	900	66.20
COIL 705	TR 11011	1,100	71.37
COIL 715	TR 13011	1,300	80.08
COIL 725	TR 15011	1,500	87.25
COIL 735	TR 17011	1,700	93.25
COIL 745	TR 19011	1,900	106.46

### COIL BLOCK – MODEL TR/015

140mm x 70mm, 8 x 1/2" tubes, 8mm fin space

COIL 770	TR 5015	500	60.46
COIL 780	TR 7015	700	70.82
COIL 790	TR 9015	900	81.26
COIL 710	TR 11015	1,100	87.67
COIL 720	TR 13015	1,300	101.87
COIL 730	TR 15015	1,500	111.26
COIL 740	TR 17015	1,700	119.10
COIL 750	TR 19015	1,900	128.35

### COIL BLOCK – MODEL 4T

130mm x 100mm, 24 x 3/8" tubes, 4mm fin space

COIL 900	4T6R	485	93.88
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**COOLERS FOR CABINETS  
VA/VP RANGE**



Models with tangential fans also available.

**4.5MM FIN SPACING – SINGLE PHASE MOTORS – WHITE FINISH**

CODE	MODEL	CAPACITY WATTS		AIR THROW M	CONNECTIONS		NO. OF FANS	TXV EQUAL	(BF) LIST £ EA
		(1)	(2)		INLET	OUTLET			
EVB330	VA 1	372	294	3	3/8"	3/8"	2	INT	123.00
EVB332	VA 2	440	348	3	3/8"	3/8"	2	INT	151.00
EVB336	VP 1	224	177	3	3/8"	3/8"	1	INT	86.00
EVB338	VP 2	372	294	3	3/8"	3/8"	2	INT	123.00
EVB340	VP 3	440	348	3	3/8"	3/8"	2	INT	151.00
EVB342	VS 1	224	177	3	3/8"	3/8"	1	INT	103.00
EVB344	VS 2	372	294	3	3/8"	3/8"	2	INT	142.00
EVB346	VS 3	440	348	3	3/8"	3/8"	2	INT	165.00

VA central mounted. VP back mounted. VS ceiling mounted. White finish.  
Air throw at 0.25 m/s.

**LIGHT COMMERCIAL  
CR RANGE**



Ceiling mounted (wall with kit)  
See page 30 for accessories,  
page 87 for drain line heaters.

**4.5MM FIN SPACING – DUAL FIN SPACING – SINGLE PHASE MOTORS – WHITE FINISH**

EVB011	CR 1	350	277	4	3/8"	3/8"	1	INT	148.00
EVB021	CR 2	390	308	4	3/8"	3/8"	1	INT	158.00
EVB031	CR 3	460	363	4	3/8"	3/8"	1	INT	175.00
EVB041	CR 4	1,040	822	4	3/8"	3/8"	2	INT	214.00
EVB051	CR 5	1,100	869	4	1/2"	5/8"	2	EXT	277.00
EVB061	CR 6	1,390	1,098	4	1/2"	5/8"	3	EXT	336.00
EVB071	CR 7	1,750	1,383	4	1/2"	5/8"	4	EXT	434.00

Air throw at 0.25 m/s.

**COMMERCIAL  
MA RANGE**



Compact ceiling mounted.  
See page 30 for defrost heaters.

**5.5MM FIN SPACING – SINGLE PHASE MOTORS – WHITE FINISH**

EVB350	MA 1	930	735	7	3/8"	3/8"	1	INT	151.00
EVB355	MA 2	1,070	845	7	3/8"	3/8"	1	INT	166.00
EVB360	MA 3	1,890	1,493	7	1/2"	5/8"	2	EXT	285.00
EVB365	MA 4	2,210	1,746	7	1/2"	7/8"	2	EXT	308.00
EVB370	MA 5	2,850	2,252	7	1/2"	7/8"	3	EXT	415.00
EVB375	MA 6	3,350	2,647	7	1/2"	7/8"	3	EXT	436.00
EVB380	MA 7	3,810	3,010	7	1/2"	7/8"	4	EXT	542.00
EVB385	MA 8	4,450	3,516	7	1/2"	7/8"	4	EXT	572.00

Air throw at 0.25 m/s.

**COMMERCIAL  
TDM RANGE**



Compact ceiling mounted.  
Supplied complete with defrost  
heaters.

Capacities:

- 1) TL1, 0°C, DT1=8K R404A
- 2) TL1, -18°C, DT1=7K R404A

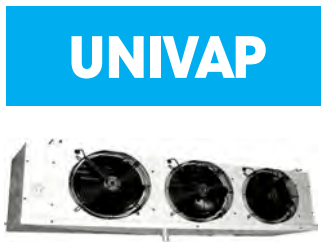
For drain line heaters see page 87.

**6.0MM FIN SPACING – SINGLE PHASE MOTORS – WHITE FINISH – ELECTRIC DEFROST**

KEV100	TDM1-ED	1,223	975	7	1/2"	5/8"	2	EXT	272.00
KEV105	TDM2-ED	1,694	1,352	7	1/2"	5/8"	2	EXT	296.00
KEV110	TDM3-ED	2,514	2,006	7.5	1/2"	5/8"	3	EXT	372.00
KEV115	TDM4-ED	2,869	2,289	7.5	1/2"	3/4"	3	EXT	420.00
KEV120	TDM5-ED	3,279	2,617	8	1/2"	3/4"	4	EXT	460.00
KEV125	TDM6-ED	3,825	3,052	8	1/2"	7/8"	4	EXT	482.00

Air throw at 0.25 m/s.

## COMMERCIAL TM RANGE



1

Ceiling mounted.

Drain fitting: LFFT261

Capacities:

- 1) TL1, 0°C, DT1=8K R404A
- 2) TL1, -18°C, DT1=7K R404A

Drain line heaters: page 87.

### 3.5MM FIN SPACING – SINGLE PHASE MOTORS – WHITE FINISH

CODE	MODEL	CAPACITY WATTS		AIR THROW M	CONNECTIONS		NO. OF FANS	TXV EQUAL	(BF) LIST £ EA
		(1)	(2)		INLET	OUTLET			
EVB104	TCH/E 1	1,700	1,343	9	1/2"	7/8"	1	EXT	361.00
EVB109	TCH/E 2	2,250	1,778	9	1/2"	7/8"	1	EXT	385.00
EVB114	TCH/E 3	3,490	2,757	9	5/8"	7/8"	2	EXT	546.00
EVB119	TCH/E 4	4,520	3,571	9	5/8"	7/8"	2	EXT	603.00
EVB124	TCH/E 5	6,840	5,404	9	7/8"	1.1/8"	3	EXT	881.00
EVB129	TCH/E 6	9,010	7,118	9	7/8"	1.1/8"	4	EXT	1,134.00
EVB134	TCH/E 7	11,040	8,722	9	7/8"	1.1/8"	5	EXT	1,401.00
EVB139	TCH/E 8	13,430	10,610	9	7/8"	1.1/8"	6	EXT	1,685.00
EVB144	TCH/E 9	15,840	12,514	9	7/8"	1.1/8"	6	EXT	1,780.00

### 5.5MM FIN SPACING – SINGLE PHASE MOTORS – WHITE FINISH

EVB154	TCM/E 1	1,320	1,043	10	1/2"	7/8"	1	EXT	348.00
EVB159	TCM/E 2	1,750	1,383	10	1/2"	7/8"	1	EXT	370.00
EVB164	TCM/E 3	2,640	2,086	10	5/8"	7/8"	2	EXT	525.00
EVB169	TCM/E 4	3,530	2,789	10	5/8"	7/8"	2	EXT	573.00
EVB172	TCM/E 5	5,420	4,282	10	7/8"	1.1/8"	3	EXT	844.00
EVB179	TCM/E 6	7,270	5,743	10	7/8"	1.1/8"	4	EXT	1,084.00
EVB184	TCM/E 7	8,590	6,786	10	7/8"	1.1/8"	5	EXT	1,340.00
EVB189	TCM/E 8	10,550	8,335	10	7/8"	1.1/8"	6	EXT	1,613.00
EVB194	TCM/E 9	12,930	10,215	10	7/8"	1.1/8"	6	EXT	1,688.00

### 3.5MM FIN SPACING – SINGLE PHASE MOTORS – WHITE FINISH – ELECTRIC DEFROST

EVB104E	TCH/E 1ED	1,700	1,343	9	1/2"	7/8"	1	EXT	440.00
EVB109E	TCH/E 2ED	2,250	1,778	9	1/2"	7/8"	1	EXT	464.00
EVB114E	TCH/E 3ED	3,490	2,757	9	5/8"	7/8"	2	EXT	639.00
EVB119E	TCH/E 4ED	4,520	3,571	9	5/8"	7/8"	2	EXT	684.00
EVB124E	TCH/E 5ED	6,840	5,404	9	7/8"	1.1/8"	3	EXT	978.00
EVB129E	TCH/E 6ED	9,010	7,118	9	7/8"	1.1/8"	4	EXT	1,266.00
EVB134E	TCH/E 7ED	11,040	8,722	9	7/8"	1.1/8"	5	EXT	1,534.00
EVB139E	TCH/E 8ED	13,430	10,610	9	7/8"	1.1/8"	6	EXT	1,833.00
EVB144E	TCH/E 9ED	15,840	12,514	9	7/8"	1.1/8"	6	EXT	1,927.00

### 5.5MM FIN SPACING – SINGLE PHASE MOTORS – WHITE FINISH – ELECTRIC DEFROST

EVB154E	TCM/E 1ED	1,320	1,043	10	1/2"	7/8"	1	EXT	428.00
EVB159E	TCM/E 2ED	1,750	1,383	10	1/2"	7/8"	1	EXT	449.00
EVB164E	TCM/E 3ED	2,640	2,086	10	5/8"	7/8"	2	EXT	613.00
EVB169E	TCM/E 4ED	3,530	2,789	10	5/8"	7/8"	2	EXT	668.00
EVB172E	TCM/E 5ED	5,420	4,282	10	7/8"	1.1/8"	3	EXT	941.00
EVB179E	TCM/E 6ED	7,270	5,743	10	7/8"	1.1/8"	4	EXT	1,213.00
EVB184E	TCM/E 7ED	8,590	6,786	10	7/8"	1.1/8"	5	EXT	1,473.00
EVB189E	TCM/E 8ED	10,550	8,335	10	7/8"	1.1/8"	6	EXT	1,760.00
EVB194E	TCM/E 9ED	12,930	10,215	10	7/8"	1.1/8"	6	EXT	1,836.00

**DUAL DISCHARGE  
TS/SR RANGE**



Ceiling mounted.

Capacities:

- 1) TL1, 0°C, DT1=8K R404A
  - 2) TL1, -18°C, DT1=7K R404A
- See page 30 for defrost heaters.

**3.2MM FIN SPACING – SINGLE PHASE MOTORS – WHITE FINISH**

CODE	MODEL	CAPACITY WATTS		AIR THROW M	CONNECTIONS		NO. OF FANS	TXV EQUAL	(BF) LIST £ EA
		(1)	(2)		INLET	OUTLET			
EVB316	TSH1	2,390	1,888	8	1/2"	5/8"	1	INT	439.00
EVB317	TSH2	4,200	3,318	8	1/2"	7/8"	2	EXT	640.00
EVB318	TSH3	6,980	5,514	8	5/8"	1.1/8"	3	EXT	864.00
EVB319	TSH4	8,590	6,786	8	5/8"	1.1/8"	4	EXT	1,168.00
EVB320	TSH5	11,470	9,061	8	5/8"	1.5/8"	5	EXT	1,410.00
EVB321	TSH6	13,000	10,270	8	5/8"	1.5/8"	6	EXT	1,698.00

**5.5MM FIN SPACING – SINGLE PHASE MOTORS – WHITE FINISH**

EVB242	SR1	1,000	790	3.5	1/2"	5/8"	1	INT	210.00
EVB244	SR2	1,890	1,493	3.5	1/2"	5/8"	2	EXT	319.00
EVB246	SR3	3,030	2,394	3.5	5/8"	7/8"	3	EXT	455.00
EVB248	SR4	4,060	3,207	3.5	5/8"	7/8"	4	EXT	541.00

**5.5MM FIN SPACING – SINGLE PHASE MOTORS – WHITE FINISH**

EVB323	TSM1	1,850	1,462	9	1/2"	5/8"	1	INT	424.00
EVB324	TSM2	3,530	2,789	9	1/2"	7/8"	2	EXT	608.00
EVB325	TSM3	5,630	4,448	9	5/8"	1.1/8"	3	EXT	812.00
EVB326	TSM4	7,160	5,656	9	5/8"	1.1/8"	4	EXT	1,103.00
EVB327	TSM5	9,330	7,371	9	5/8"	1.5/8"	5	EXT	1,327.00
EVB328	TSM6	10,830	8,556	9	5/8"	1.5/8"	6	EXT	1,592.00

**DUAL DISCHARGE  
LOW VELOCITY L RANGE**



Ceiling mounted.

See page 30 for defrost heaters.

**3.2MM FIN SPACING – SINGLE PHASE MOTORS – WHITE FINISH**

EVB401	LAH 1	2,420	1,912	3	1/2"	5/8"	2	INT	470.00
EVB402	LAH 2	3,140	2,481	3	1/2"	5/8"	2	INT	582.00
EVB403	LAH 3	4,910	3,879	3	1/2"	7/8"	2	EXT	772.00
EVB404	LAH 4	5,700	4,503	3	1/2"	7/8"	2	EXT	856.00
EVB405	LAH 5	7,020	5,546	3	5/8"	1.1/8"	2	EXT	1,060.00
EVB406	LAH 6	8,660	6,841	3	5/8"	1.1/8"	2	EXT	1,372.00

**6.0MM FIN SPACING – SINGLE PHASE MOTORS – WHITE FINISH**

EVB411	LAM 1	1,720	1,359	3	1/2"	5/8"	2	INT	445.00
EVB412	LAM 2	2,350	1,857	3	1/2"	5/8"	2	INT	561.00
EVB413	LAM 3	3,460	2,733	3	1/2"	7/8"	2	EXT	739.00
EVB414	LAM 4	4,100	3,239	3	1/2"	7/8"	2	EXT	810.00
EVB415	LAM 5	4,880	3,855	3	5/8"	1.1/8"	2	EXT	994.00
EVB416	LAM 6	6,660	5,261	3	5/8"	1.1/8"	2	EXT	1,271.00

Air throw at 0.25 m/s.

## ACCESSORIES AND SPARES

# UNIVAP

1

### HEATERS AND SPARES – CR RANGE

CODE	DESCRIPTION	(BG) £ LIST
EVB551	HEATER KIT – CR1 + CR2	25.00
EVB552	HEATER KIT – CR3	30.00
EVB553	HEATER KIT – CR4	30.00
EVB554	HEATER KIT – CR5	35.00
EVB555	HEATER KIT – CR6	40.00
EVB556	HEATER KIT – CR7	45.00
EVB081	WALL MOUNTING KIT – CR1 +CR2 (WHITE)	33.00
EVB083	WALL MOUNTING KIT – CR3 (WHITE)	43.00
EVB085	WALL MOUNTING KIT – CR4 (WHITE)	46.00
EVB087	WALL MOUNTING KIT – CR5 (WHITE)	48.00
EVB089	WALL MOUNTING KIT – CR6 (WHITE)	50.00
EVB091	WALL MOUNTING KIT – CR7 (WHITE)	65.00
EVB494	HEATER FOR EVB081 WALL MOUNTING KIT	24.00
EVB495	HEATER FOR EVB083 WALL MOUNTING KIT	31.00
EVB496	HEATER FOR EVB085 WALL MOUNTING KIT	33.00
EVB497	HEATER FOR EVB087 WALL MOUNTING KIT	35.00

Replacement fan motor: EBM010 (page 84).

### HEATERS AND SPARES – TC RANGE

EVB510	HEATER KIT – TC1 + TC2	102.00
EVB511	HEATER KIT – TC3 + TC4	120.00
EVB512	HEATER KIT – TC5	125.00
EVB513	HEATER KIT – TC6	181.00
EVB514	HEATER KIT – TC7	213.00
EVB515	HEATER KIT – TC8 + TC9	232.00
EVB811	MOTOR – FOR ALL MODELS	40.50
BRAK011	PAIR OF GALLOWS BRACKETS	50.00

### HEATERS AND SPARES – MA RANGE

EVB650	HEATER KIT – MA 1 + MA 2	41.00
EVB655	HEATER KIT – MA 3 + MA 4	53.00
EVB660	HEATER KIT – MA 5 + MA 6	67.00
EVB665	HEATER KIT – MA 7 + MA 8	78.00
EVB813	MOTOR – ALL MODELS	36.50

### DEFROST HEATER KITS – TS/SR RANGE

EVB704	HEATER KIT – TS1	65.00
EVB705	HEATER KIT – TS2	75.00
EVB706	HEATER KIT – TS3	78.00
EVB707	HEATER KIT – TS4	107.00
EVB708	HEATER KIT – TS5	122.00
EVB709	HEATER KIT – TS6	141.00
EVB711	HEATER KIT – SR1	41.00
EVB713	HEATER KIT – SR2	54.00
EVB715	HEATER KIT – SR3	69.00
EVB717	HEATER KIT – SR4	75.00

For motors use EVB811 for TS range, EVB813 for SR range.

### DEFROST HEATER KITS – LA RANGE

EVB580	HEATER KIT – LA 1	101.00
EVB581	HEATER KIT – LA 2	130.00
EVB582	HEATER KIT – LA 3	140.20
EVB583	HEATER KIT – LA 4	152.00
EVB584	HEATER KIT – LA 5	198.00
EVB585	HEATER KIT – LA 6	216.00
EVB811	MOTOR – ALL L MODELS	40.50



UNIVAP REMOTE  
CONDENSERS

UNIVAP



Horizontal (H) or Vertical (V) air flow versions.

CODE	MODEL	CAPACITY (kW)		NO. OF FANS	dB(A) @ 10m	(BF) £ EA
		HIGH SPEED	LOW SPEED			
ACC200	CF40 1-2 H	6.1	5.0	1	33	519.00
ACC202	CF40 1-2 V	6.1	5.0	1	33	548.00
ACC205	CF40 1-3 H	9.1	8.0	1	33	551.00
ACC207	CF40 1-3 V	9.1	8.0	1	33	579.00
ACC210	CF40 1-4 H	10.1	9.0	1	33	583.00
ACC212	CF40 1-4 V	10.1	9.0	1	33	611.00
ACC215	CF40 2-2 H	11.1	10.0	2	36	867.00
ACC217	CF40 2-2 V	11.1	10.0	2	36	896.00
ACC220	CF40 2-3 H	17.0	15.0	2	36	920.00
ACC222	CF40 2-3 V	17.0	15.0	2	36	949.00
ACC225	CF40 2-4 H	21.0	17.0	2	36	977.00
ACC227	CF40 2-4 V	21.0	17.0	2	36	1,006.00
ACC230	CF40 3-2 H	22.0	18.0	3	37	1,194.00
ACC232	CF40 3-2 V	22.0	18.0	3	37	1,224.00
ACC235	CF40 3-3 H	26.0	23.0	3	37	1,270.00
ACC237	CF40 3-3 V	26.0	23.0	3	37	1,301.00
ACC240	CF40 3-4 H	32.0	27.0	3	37	1,444.00
ACC242	CF40 3-4 V	32.0	27.0	3	37	1,474.00

Fans are 230/1/50-60Hz and can be wired for high (1,350rpm) or low (1,000rpm) speed.

Capacities are based on R404A, 15K TD to EN327.

Condensers are R410A ready.

Noise levels in dB(A) are shown for low speed fan configuration.

## NEW SP GREEN LINE



GEA Küba GmbH



Ceiling mounted.

Aluminium casing, smooth powder coated (RAL9018).

Fans wired to terminal box (SP23 models), hinged fans with integrated terminal box (SP30-45 models).

Accessories include hinged drip tray, Shut-Up defrost system with adapter, coated coils and EC fans.

For SPA coolers:

NB1 = TL1 +10°C DT = 10K

NB2 = TL1 0°C DT = 8K

For SPB coolers:

NB2 = TL1 0°C DT = 8K

NB3 = TL1 -18°C DT = 7K

Air throw measured at 0.5m/sec.

Extended 24 months parts warranty.

## COMMERCIAL – MARKET PLUS SP 4.0MM FIN SPACING – WHITE

CODE	MODEL	CAPACITY Kw NB1	CAPACITY Kw NB2	AIR THROW M	NO. OF FANS	(BN) £ EA
KUSP010	SPA 23-F21	1.9	1.3	7	1	368.00
KUSP020	SPA 23-F31	2.4	1.6	6	1	442.00
KUSP030	SPA 30-F21	3.1	2.1	10	1	498.00
KUSP040	SPA 30-F31	3.9	2.6	10	1	527.00
KUSP050	SPA 35-F21	5.2	3.5	18	1	661.00
KUSP060	SPA 35-F31	6.5	4.3	17	1	734.00
KUSP070	SPA 35-F41	7.4	5.0	16	1	832.00
KUSP080	SPA 45-F31	11.4	7.6	24	1	1,021.00
KUSP090	SPA 45-F41	12.9	8.7	23	1	1,107.00
KUSP100	SPA 23-F32	4.7	3.1	12	2	653.00
KUSP110	SPA 30-F22	6.3	4.2	16	2	806.00
KUSP120	SPA 30-F32	7.8	5.2	15	2	841.00
KUSP130	SPA 35-F22	10.5	7.0	24	2	1,092.00
KUSP140	SPA 35-F32	13.2	8.9	22	2	1,262.00
KUSP150	SPA 35-F42	14.9	10.0	21	2	1,404.00
KUSP160	SPA 45-F32	22.8	15.3	30	2	1,703.00
KUSP170	SPA 45-F42	25.9	17.4	29	2	1,852.00
KUSP180	SPA 23-F33	7.2	4.8	15	3	1,029.00
KUSP190	SPA 30-F23	9.6	6.4	19	3	1,129.00
KUSP200	SPA 30-F33	11.7	7.9	19	3	1,209.00
KUSP210	SPA 35-F23	15.3	10.2	27	3	1,604.00
KUSP220	SPA 35-F33	19.4	13.0	26	3	1,760.00
KUSP230	SPA 35-F43	22.2	14.9	25	3	1,938.00
KUSP240	SPA 45-F33	34.3	22.9	33	3	2,562.00
KUSP250	SPA 45-F43	39.5	26.6	32	3	2,785.00
KUSP260	SPA 23-F34	9.4	6.3	18	4	1,209.00
KUSP270	SPA 30-F24	12.7	8.5	22	4	1,478.00
KUSP280	SPA 30-F34	15.4	10.3	21	4	1,555.00
KUSP290	SPA 35-F24	20.6	13.7	30	4	2,027.00
KUSP300	SPA 35-F34	26.1	17.5	28	4	2,376.00
KUSP310	SPA 35-F44	29.8	20.0	27	4	2,488.00
KUSP320	SPA 45-F34	44.8	30.0	36	4	3,253.00
KUSP330	SPA 45-F44	51.9	34.9	35	4	3,550.00
KUSP340	SPA 35-F45	36.8	24.7	29	5	3,641.00

## WITH ELECTRIC DEFROST

CODE	MODEL	(BN) £ EA
KUSP010E	SPA 23-F21	415.00
KUSP020E	SPA 23-F31	499.00
KUSP030E	SPA 30-F21	557.00
KUSP040E	SPA 30-F31	633.00
KUSP050E	SPA 35-F21	727.00
KUSP060E	SPA 35-F31	808.00
KUSP070E	SPA 35-F41	915.00
KUSP080E	SPA 45-F31	1,124.00
KUSP090E	SPA 45-F41	1,217.00
KUSP100E	SPA 23-F32	718.00
KUSP110E	SPA 30-F22	887.00
KUSP120E	SPA 30-F32	925.00
KUSP130E	SPA 35-F22	1,201.00
KUSP140E	SPA 35-F32	1,388.00
KUSP150E	SPA 35-F42	1,544.00
KUSP160E	SPA 45-F32	1,873.00
KUSP170E	SPA 45-F42	2,037.00
KUSP180E	SPA 23-F33	1,132.00
KUSP190E	SPA 30-F23	1,242.00
KUSP200E	SPA 30-F33	1,329.00
KUSP210E	SPA 35-F23	1,764.00
KUSP220E	SPA 35-F33	1,936.00
KUSP230E	SPA 35-F43	2,132.00
KUSP240E	SPA 45-F33	2,818.00
KUSP250E	SPA 45-F43	3,063.00
KUSP260E	SPA 23-F34	1,329.00
KUSP270E	SPA 30-F24	1,611.00
KUSP280E	SPA 30-F34	1,710.00
KUSP290E	SPA 35-F24	2,230.00
KUSP300E	SPA 35-F34	2,614.00
KUSP310E	SPA 35-F44	2,699.00
KUSP320E	SPA 45-F34	3,578.00
KUSP330E	SPA 45-F44	3,905.00
KUSP340E	SPA 35-F45	4,005.00

## COMMERCIAL – MARKET PLUS SP 7.0MM FIN SPACING-WHITE

CODE	MODEL	CAPACITY Kw NB2	CAPACITY Kw NB3	AIR THROW M	NO. OF FANS	(BN) £ EA
KUSP350	SPB 23-F21	0.9	0.6	7	1	356.00
KUSP360	SPB 23-F31	1.2	0.8	7	1	401.00
KUSP370	SPB 30-F21	1.5	1.1	11	1	455.00
KUSP380	SPB 30-F31	2.0	1.4	11	1	505.00
KUSP390	SPB 35-F21	2.4	1.6	19	1	557.00
KUSP400	SPB 35-F31	3.3	2.4	19	1	668.00
KUSP410	SPB 35-F41	4.0	2.9	18	1	728.00
KUSP420	SPB 45-F31	5.6	4.0	26	1	887.00
KUSP430	SPB 45-F41	6.8	5.1	25	1	1,058.00
KUSP440	SPB 23-F32	2.3	1.7	12	2	581.00
KUSP450	SPB 30-F22	3.0	2.1	17	2	698.00
KUSP460	SPB 30-F32	4.0	2.9	16	2	787.00
KUSP470	SPB 35-F22	4.9	3.3	25	2	917.00
KUSP480	SPB 35-F32	6.6	4.5	24	2	1,092.00
KUSP490	SPB 35-F42	8.0	5.8	24	2	1,248.00
KUSP500	SPB 45-F32	11.3	8.0	32	2	1,591.00
KUSP510	SPB 45-F42	13.6	10.3	31	2	1,753.00
KUSP520	SPB 23-F33	3.5	2.5	16	3	821.00
KUSP530	SPB 30-F23	4.5	3.0	20	3	1,017.00
KUSP540	SPB 30-F33	6.0	4.3	20	3	1,069.00
KUSP550	SPB 35-F23	7.2	5.3	28	3	1,239.00
KUSP560	SPB 35-F33	9.8	7.2	28	3	1,363.00
KUSP570	SPB 35-F43	11.9	8.8	27	3	1,619.00
KUSP580	SPB 45-F33	16.9	12.1	35	3	2,187.00
KUSP590	SPB 45-F43	20.6	14.9	34	3	2,298.00
KUSP600	SPB 23-F34	4.6	3.5	18	4	958.00
KUSP610	SPB 30-F24	6.0	4.2	23	4	1,196.00
KUSP620	SPB 30-F34	7.9	6.0	22	4	1,300.00
KUSP630	SPB 35-F24	9.7	6.9	31	4	1,545.00
KUSP640	SPB 35-F34	13.2	9.5	30	4	1,864.00
KUSP650	SPB 35-F44	16.0	11.6	30	4	2,146.00
KUSP660	SPB 45-F34	22.3	16.7	38	4	2,685.00
KUSP670	SPB 45-F44	27.2	20.6	37	4	3,045.00
KUSP680	SPB 35-F45	19.8	14.9	31	5	3,156.00

## WITH ELECTRIC DEFROST

CODE	MODEL	(BN) £ EA
KUSP350E	SPBE 23-F21	410.00
KUSP360E	SPBE 23-F31	457.00
KUSP370E	SPBE 30-F21	545.00
KUSP380E	SPBE 30-F31	606.00
KUSP390E	SPBE 35-F21	619.00
KUSP400E	SPBE 35-F31	748.00
KUSP410E	SPBE 35-F41	815.00
KUSP420E	SPBE 45-F31	985.00
KUSP430E	SPBE 45-F41	1,175.00
KUSP440E	SPBE 23-F32	645.00
KUSP450E	SPBE 30-F22	775.00
KUSP460E	SPBE 30-F32	866.00
KUSP470E	SPBE 35-F22	1,009.00
KUSP480E	SPBE 35-F32	1,201.00
KUSP490E	SPBE 35-F42	1,398.00
KUSP500E	SPBE 45-F32	1,711.00
KUSP510E	SPBE 45-F42	1,928.00
KUSP520E	SPBE 23-F33	976.00
KUSP530E	SPBE 30-F23	1,118.00
KUSP540E	SPBE 30-F33	1,176.00
KUSP550E	SPBE 35-F23	1,363.00
KUSP560E	SPBE 35-F33	1,499.00
KUSP570E	SPBE 35-F43	1,781.00
KUSP580E	SPBE 45-F33	2,340.00
KUSP590E	SPBE 45-F43	2,506.00
KUSP600E	SPBE 23-F34	1,044.00
KUSP610E	SPBE 30-F24	1,315.00
KUSP620E	SPBE 30-F34	1,430.00
KUSP630E	SPBE 35-F24	1,699.00
KUSP640E	SPBE 35-F34	2,088.00
KUSP650E	SPBE 35-F44	2,339.00
KUSP660E	SPBE 45-F34	2,926.00
KUSP670E	SPBE 45-F44	3,319.00
KUSP680E	SPBE 35-F45	3,409.00

**GREEN LINE COOLERS**



GEA Küba GmbH



Compact, ceiling mounted.  
Smooth powder coated casing (RAL9018).  
Hinged double drip tray. Fans wired to terminal box.  
Single phase.

**LIGHT COMMERCIAL – JUNIOR DF – 4.5MM FIN SPACING – WHITE**

CODE	MODEL	CAPACITY Kw (1)	CAPACITY Kw (2)	AIR THROW METRES	NO. OF FANS	(BN) £ EA
KUBA900	DFA011E	0.46	0.37	5	1	168.00
KUBA901	DFA021E	0.56	0.45	5	1	190.00
KUBA902	DFA031E	0.67	0.54	5	1	224.00
KUBA905	DFA022E	1.12	0.89	6	2	297.00
KUBA906	DFA032E	1.34	1.07	6	2	335.00
KUBA908	DFA023E	1.68	1.34	9	3	422.00
KUBA909	DFA033E	2.01	1.61	9	3	517.00

**WITH ELECTRIC DEFROST**

CODE	MODEL	(BN) £ EA
KUBA900E	DFAE011E	179.00
KUBA901E	DFAE021E	207.00
KUBA902E	DFAE031E	240.00
KUBA905E	DFAE022E	323.00
KUBA906E	DFAE032E	370.00
KUBA908E	DFAE023E	433.00
KUBA909E	DFAE033E	584.00

**LIGHT COMMERCIAL – JUNIOR DF – 7.0MM FIN SPACING – WHITE**

CODE	MODEL	CAPACITY Kw (1)	CAPACITY Kw (2)	AIR THROW METRES	NO. OF FANS	(BN) £ EA
KUBA911	DFB011E	0.40	0.32	5	1	190.00
KUBA912	DFB021E	0.48	0.38	5	1	213.00
KUBA913	DFB031E	0.61	0.49	5	1	240.00
KUBA915	DFB022E	0.96	0.77	6	2	310.00
KUBA916	DFB032E	1.22	0.97	6	2	358.00
KUBA918	DFB023E	1.44	1.15	9	3	414.00
KUBA919	DFB033E	1.83	1.46	9	3	512.00

**WITH ELECTRIC DEFROST**

CODE	MODEL	(BN) £ EA
KUBA911E	DFBE011E	213.00
KUBA912E	DFBE021E	235.00
KUBA913E	DFBE031E	258.00
KUBA915E	DFBE022E	325.00
KUBA916E	DFBE032E	392.00
KUBA918E	DFBE023E	437.00
KUBA919E	DFBE033E	582.00

**LIGHT COMMERCIAL – COMPACT DF – 4.5MM FIN SPACING – WHITE**

CODE	MODEL	CAPACITY Kw (1)	CAPACITY Kw (3)	AIR THROW METRES	NO. OF FANS	(BN) £ EA
KUBA924	DFA051D	1.66	2.51	7	1	420.00
KUBA925	DFA061D	2.14	3.27	9	1	464.00
KUBA926	DFA071D	2.53	3.86	9	1	556.00
KUBA930	DFA052D	3.32	4.89	9	2	664.00
KUBA931	DFA062D	4.28	6.58	11	2	782.00
KUBA932	DFA072D	5.06	7.40	11	2	935.00
KUBA934	DFA063D	6.42	9.26	12	3	1,176.00
KUBA935	DFA073D	7.59	11.16	12	3	1,336.00
KUBA937	DFA064D	8.56	12.70	16	4	1,475.00
KUBA939	DFA074D	10.12	15.60	16	4	1,831.00

**WITH ELECTRIC DEFROST**

CODE	MODEL	(BN) £ EA
KUBA924E	DFAE051D	455.00
KUBA925E	DFAE061D	548.00
KUBA926E	DFAE071D	651.00
KUBA930E	DFAE052D	722.00
KUBA931E	DFAE062D	849.00
KUBA932E	DFAE072D	1,069.00
KUBA934E	DFAE063D	1,256.00
KUBA935E	DFAE073D	1,444.00
KUBA937E	DFAE064D	1,732.00
KUBA939E	DFAE074D	1,880.00



Capacities (R404A)  
1) TL1 0°C, DT = 8K  
2) TL2 -18°C, DT1 = 7K  
3) TL3 +10°C, DT1 = 10K  
Airsthrow measured at airspeed of 0.5m/s.

**LIGHT COMMERCIAL – COMPACT DF – 7.0MM FIN SPACING – WHITE**

CODE	MODEL	CAPACITY Kw (1)	CAPACITY Kw (2)	AIR THROW METRES	NO. OF FANS	(BN) £ EA
KUBA942	DFB051D	1.52	1.21	7	1	420.00
KUBA943	DFB061D	1.81	1.45	9	1	464.00
KUBA944	DFB071D	2.19	1.75	9	1	556.00
KUBA946	DFB052D	3.04	2.43	9	2	664.00
KUBA947	DFB062D	3.62	2.89	11	2	782.00
KUBA948	DFB072D	4.38	3.50	11	2	935.00
KUBA950	DFB063D	5.43	4.34	12	3	1,176.00
KUBA951	DFB073D	6.57	5.25	12	3	1,336.00
KUBA953	DFB064D	7.24	5.78	16	4	1,475.00
KUBA954	DFB074D	8.76	7.00	16	4	1,831.00

**WITH ELECTRIC DEFROST**

CODE	MODEL	(BN) £ EA
KUBA942E	DFBE051D	455.00
KUBA943E	DFBE061D	548.00
KUBA944E	DFBE071D	651.00
KUBA946E	DFBE052D	722.00
KUBA947E	DFBE062D	849.00
KUBA948E	DFBE072D	1,069.00
KUBA950E	DFBE063D	1,256.00
KUBA951E	DFBE073D	1,444.00
KUBA953E	DFBE064D	1,732.00
KUBA954E	DFBE074D	1,880.00

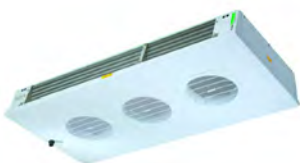
For drain line heaters see page 87.

EXTENDED WARRANTY APPLICABLE: SEE INSIDE BACK COVER.

## GREEN LINE COOLERS



GEA Küba GmbH



Low profile ceiling mounted. Smooth powder coated casing (RAL9018) three speed fans wired to terminal box. Manual speed switching control available (optional extra).

Capacities (R404A) at highest fan speed.

1) TL1 0°C, DT = 8K

2) TL2 +10°C, DT1 = 10K

Airthrow measured at airspeed of 0.5m/s.



## DUAL DISCHARGE – COMFORT DP – 4.5MM FIN SPACING – WHITE

CODE	MODEL	CAPACITY Kw (1)	CAPACITY Kw (2)	AIR THROW METRES	NO. OF FANS	(BN) £ EA
KUBA960	DPA031C	3.69	5.41	2 x 11	1	929.00
KUBA961	DPA041C	4.26	6.25	2 x 9	1	1,028.00
KUBA964	DPA032C	7.38	10.80	2 x 12	2	1,392.00
KUBA965	DPA042C	8.52	12.50	2 x 10	2	1,488.00
KUBA968	DPA033C	11.10	16.30	2 x 13	3	1,902.00
KUBA969	DPA043C	12.80	18.80	2 x 11	3	2,053.00
KUBA972	DPA034C	14.80	21.70	2 x 14	4	2,474.00
KUBA973	DPA044C	17.00	25.00	2 x 12	4	2,673.00

## WITH ELECTRIC DEFROST

CODE	MODEL	(BN) £ EA
KUBA960E	DPAE031C	1,069.00
KUBA961E	DPAE041C	1,151.00
KUBA964E	DPAE032C	1,563.00
KUBA965E	DPAE042C	1,718.00
KUBA968E	DPAE033C	2,131.00
KUBA969E	DPAE043C	2,278.00
KUBA972E	DPAE034C	2,771.00
KUBA973E	DPAE044C	2,963.00

## DUAL DISCHARGE – COMFORT DP – 7.0MM FIN SPACING – WHITE WITH ELECTRIC DEFROST

CODE	MODEL	CAPACITY Kw (1)	CAPACITY Kw (2)	AIR THROW METRES	NO. OF FANS	(BN) £ EA
KUBA978E	DPBE031C	2.98	4.37	2 x 11	1	1,140.00
KUBA979E	DPBE041C	3.72	5.46	2 x 9	1	1,276.00
KUBA982E	DPBE032C	5.96	8.75	2 x 12	2	1,660.00
KUBA983E	DPBE042C	7.44	10.90	2 x 10	2	1,720.00
KUBA986E	DPBE033C	8.94	13.10	2 x 13	3	2,252.00
KUBA987E	DPBE043C	11.20	16.40	2 x 11	3	2,494.00
KUBA989E	DPBE034C	11.90	17.50	2 x 14	4	2,796.00
KUBA990E	DPBE044C	14.90	21.80	2 x 12	4	3,134.00

## UNDER COUNTER – GASTRO FM – 4.5MM FIN SPACING – WHITE

CODE	MODEL	CAPACITY Kw (1)	AIR THROW METRES	NO. OF FANS	(BN) £ EA
KUBA080	FMA011D	0.14	4	1	179.00
KUBA082	FMA021D	0.18	4	1	182.00
KUBA084	FMA022D	0.26	4	2	236.00
KUBA086	FMA032D	0.29	4	2	277.00
KUBA088	FMA042D	0.33	4	2	328.00

Air throw figure is for single side air discharge, this is reduced to 3m if double sided air discharge is used.

Extended warranty applicable: see inside back cover.

EXTENDED WARRANTY APPLICABLE: SEE INSIDE BACK COVER.

**BLUE LINE COOLERS**



GEA Küba GmbH



DE.(E) 071 - 091C

**LIGHT COMMERCIAL, MODELS DEA.D classic**

Options include anti-corrosion protection, electric space heaters, glycol versions.

**SINGLE PHASE MOTORS – WHITE FINISH (RAL9018) – 4.5MM FIN SPACING**

CODE	MODEL	CAPACITY Kw (1)	CAPACITY Kw (2)	AIR THROW METRES	NO. OF FANS	(BN) £ EA
KUBA320	DEA071D	1.90	1.51	9	1	619.00
KUBA324	DEA081D	2.10	1.67	9	1	636.00
KUBA328	DEA091D	2.35	1.87	9	1	681.00
KUBA332	DEA072D	3.80	3.02	11	2	967.00
KUBA336	DEA082D	4.20	3.34	11	2	995.00
KUBA340	DEA092D	4.70	3.74	11	2	1,187.00
KUBA344	DEA083D	6.30	5.01	12	3	1,597.00
KUBA348	DEA093D	7.05	5.60	12	3	1,659.00
KUBA352	DEA084D	8.40	6.68	16	4	1,846.00
KUBA356	DEA094D	9.40	7.47	16	4	2,092.00

Capacities:

- 1) TL1 0°C, DT1 = 8K, R404A, to Eurovent
- 2) TL1 -18°C, DT1 = 7K, R404A, to Eurovent.

**WITH ELECTRIC DEFROST**

CODE	MODEL	(BN) £ EA
KUBA320E	DEAE071D	704.00
KUBA324E	DEAE081D	739.00
KUBA328E	DEAE091D	785.00
KUBA332E	DEAE072D	1,071.00
KUBA336E	DEAE082D	1,120.00
KUBA340E	DEAE092D	1,309.00
KUBA344E	DEAE083D	1,745.00
KUBA348E	DEAE093D	1,809.00
KUBA352E	DEAE084D	2,019.00
KUBA356E	DEAE094D	2,265.00

**SINGLE PHASE MOTORS – WHITE FINISH (RAL9018) – 7.0MM FIN SPACING**

CODE	MODEL	CAPACITY Kw (1)	CAPACITY Kw (2)	AIR THROW METRES	NO. OF FANS	(BN) £ EA
KUBA360	DEB071D	1.53	1.22	10	1	593.00
KUBA364	DEB081D	1.80	1.43	10	1	616.00
KUBA368	DEB091D	2.00	1.59	10	1	656.00
KUBA372	DEB072D	3.06	2.43	12	2	959.00
KUBA376	DEB082D	3.60	2.86	12	2	990.00
KUBA380	DEB092D	4.00	3.18	12	2	1,169.00
KUBA384	DEB083D	5.40	4.29	14	3	1,485.00
KUBA388	DEB093D	6.00	4.77	14	3	1,608.00
KUBA392	DEB084D	7.20	5.72	17	4	1,702.00
KUBA396	DEB094D	8.00	6.36	17	4	1,825.00

Capacities:

- 1) TL1 0°C, DT1 = 8K, R404A, to Eurovent
- 2) TL1 -18°C, DT1 = 7K, R404A, to Eurovent.

Air throw at airspeed of 0.5 m/s.

**WITH ELECTRIC DEFROST**

CODE	MODEL	(BN) £ EA
KUBA360E	DEBE071D	681.00
KUBA364E	DEBE081D	728.00
KUBA368E	DEBE091D	755.00
KUBA372E	DEBE072D	1,065.00
KUBA376E	DEBE082D	1,114.00
KUBA380E	DEBE092D	1,295.00
KUBA384E	DEBE083D	1,635.00
KUBA388E	DEBE093D	1,757.00
KUBA392E	DEBE084D	1,875.00
KUBA396E	DEBE094D	2,002.00



DZBE (E) F41 - F61

**DUAL DISCHARGE, MODELS DZ classic**

Selected models from the range. Other models and options POR

**THREE PHASE MOTORS – WHITE FINISH (RAL9018) – 7MM FIN SPACING**

CODE	MODEL	CAPACITY Kw (1)	CAPACITY Kw (2)	AIR THROW METRES	NO. OF FANS	(BN) £ EA
KUBA1322	DZB45-F41	6.0	4.8	2 x 12	1	2,719.00
KUBA1324	DZB50-F61	11.4	9.1	2 x 25	1	3,595.00
KUBA1326	DZB56-F61	15.0	12.0	2 x 17	1	4,083.00
KUBA1332	DZB50-F62	22.8	18.2	2 x 18	2	5,598.00
KUBA1334	DZB56-F62	30.0	24.0	2 x 20	2	6,600.00
KUBA1340	DZB50-F63	34.2	27.3	2 x 21	3	8,179.00
KUBA1342	DZB56-F63	45.0	36.0	2 x 23	3	10,332.00
KUBA1350	DZB56-F64	60.0	48.0	2 x 26	4	12,902.00
KUBA1351	DZB56-F84	70.8	56.6	2 x 26	4	14,651.00

Capacities:

- 1) TL1 0°C, DT1 = 8K, R404A
- 2) TL1 -18°C, DT1 = 7K, R404A

Air throw at 0.5 m/s..

**WITH ELECTRIC DEFROST**

CODE	MODEL	(BN) £ EA
KUBA1322E	DZBE45-F41	2,985.00
KUBA1324E	DZBE50-F61	4,004.00
KUBA1326E	DZBE56-F61	4,513.00
KUBA1332E	DZBE50-F62	6,138.00
KUBA1334E	DZBE56-F62	7,325.00
KUBA1340E	DZBE50-F63	8,858.00
KUBA1342E	DZBE56-F63	11,077.00
KUBA1350E	DZBE56-F64	13,881.00
KUBA1351E	DZBE56-F84	15,786.00

EXTENDED WARRANTY APPLICABLE: SEE INSIDE BACK COVER.

## NEW SG BLUE LINE COOLERS



GEA Küba GmbH



Options: insulated drip tray, stainless steel casing, hot gas defrost, Shut-up defrost system, defrost hood, heated fan rings. Airthrow quoted at airspeed of 0.5m/sec.

Alternative fin spacings: 4.5mm and 12.0mm.

## 7.0MM FIN SPACING – WHITE FINISH

CODE	MODEL	CAPACITY Kw (1)	CAPACITY Kw (2)	AIR THROW METRES	NO. OF FANS	(BN) £ EA
KUSG550	SGB 23-F21	0.9	0.5	12	1	564.00
KUSG560	SGB 23-F31	1.2	0.8	11	1	620.00
KUSG570	SGB 30-F21	1.5	1.0	17	1	683.00
KUSG580	SGB 30-F31	1.9	1.3	16	1	763.00
KUSG590	SGB 35-F21	2.5	1.6	31	1	993.00
KUSG600	SGB 35-F31	3.4	2.3	30	1	1,033.00
KUSG610	SGB 35-F41	4.1	2.8	29	1	1,192.00
KUSG620	SGB 35-F61	6.2	4.4	26	1	1,478.00
KUSG630	SGB 45-F31	5.6	3.7	42	1	1,653.00
KUSG640	SGB 45-F41	6.7	4.6	41	1	1,740.00
KUSG650	SGB 45-F51	8.0	5.4	40	1	1,787.00
KUSG660	SGB 23-F22	1.8	1.2	17	2	1,009.00
KUSG670	SGB 23-F32	2.3	1.6	17	2	1,105.00
KUSG680	SGB 30-F22	3.0	1.9	22	2	1,319.00
KUSG690	SGB 30-F32	3.9	2.7	22	2	1,502.00
KUSG700	SGB 35-F22	4.9	3.3	36	2	1,764.00
KUSG710	SGB 35-F32	6.8	4.6	36	2	1,978.00
KUSG720	SGB 35-F42	8.3	5.8	35	2	2,304.00
KUSG730	SGB 35-F62	12.4	8.9	31	2	2,789.00
KUSG740	SGB 45-F32	11.3	7.4	47	2	2,844.00
KUSG750	SGB 45-F42	13.5	9.4	47	2	3,019.00
KUSG760	SGB 45-F52	16.0	10.8	46	2	3,138.00
KUSG770	SGB 23-F23	2.7	1.8	21	3	1,422.00
KUSG780	SGB 23-F33	3.5	2.4	20	3	1,533.00
KUSG790	SGB 30-F23	4.3	3.0	26	3	1,764.00
KUSG800	SGB 30-F33	5.9	4.1	25	3	2,018.00
KUSG810	SGB 35-F23	7.7	4.8	40	3	2,574.00
KUSG820	SGB 35-F33	10.3	7.0	39	3	3,035.00
KUSG830	SGB 35-F43	12.2	8.6	38	3	3,337.00
KUSG840	SGB 35-F63	17.3	12.6	35	3	3,837.00
KUSG850	SGB 45-F33	17.0	11.2	51	3	4,203.00
KUSG860	SGB 45-F43	20.9	13.9	50	3	4,425.00
KUSG870	SGB 45-F53	23.2	16.5	49	3	4,592.00
KUSG880	SGB 23-F24	3.6	2.4	23	4	1,851.00
KUSG890	SGB 23-F34	4.8	3.2	23	4	1,955.00
KUSG900	SGB 30-F24	6.0	3.9	28	4	2,367.00
KUSG910	SGB 30-F34	8.1	5.3	28	4	2,701.00
KUSG920	SGB 35-F24	10.1	6.6	42	4	3,345.00
KUSG930	SGB 35-F34	13.3	9.3	42	4	3,718.00
KUSG940	SGB 35-F44	16.9	11.4	41	4	4,187.00
KUSG950	SGB 35-F64	24.3	17.8	37	4	4,568.00
KUSG960	SGB 45-F34	22.4	15.1	53	4	5,259.00
KUSG970	SGB 45-F44	27.2	18.8	53	4	5,934.00
KUSG980	SGB 45-F54	31.4	22.1	52	4	6,697.00
KUSG990	SGB 23-F25	4.5	2.9	25	5	2,280.00
KUSG1000	SGB 23-F35	6.0	4.1	24	5	2,375.00
KUSG1010	SGB 30-F25	7.4	5.0	30	5	2,947.00
KUSG1020	SGB 30-F35	10.0	6.8	29	5	3,249.00
KUSG1030	SGB 35-F25	13.0	7.9	44	5	4,115.00
KUSG1040	SGB 35-F35	17.7	11.0	43	5	4,806.00
KUSG1050	SGB 35-F45	20.8	14.5	42	5	5,005.00
KUSG1060	SGB 35-F65	31.2	22.6	39	5	6,046.00
KUSG1070	SGB 45-F35	28.7	18.3	55	5	7,070.00
KUSG1080	SGB 45-F45	35.1	22.8	54	5	7,309.00

Capacities:  
 1) TL1 0°C, DT1 = 8K, R404A to Eurovent  
 2) TL1 -18°C, DT1 = 7K, R404A

## WITH ELECTRIC DEFROST

CODE	MODEL	(BN) £ EA
KUSG550E	SGBE 23-F21	675.00
KUSG560E	SGBE 23-F31	731.00
KUSG570E	SGBE 30-F21	802.00
KUSG580E	SGBE 30-F31	898.00
KUSG590E	SGBE 35-F21	1,073.00
KUSG600E	SGBE 35-F31	1,216.00
KUSG610E	SGBE 35-F41	1,438.00
KUSG620E	SGBE 35-F61	1,621.00
KUSG630E	SGBE 45-F31	1,827.00
KUSG640E	SGBE 45-F41	1,923.00
KUSG650E	SGBE 45-F51	2,002.00
KUSG660E	SGBE 23-F22	1,108.00
KUSG670E	SGBE 23-F32	1,208.00
KUSG680E	SGBE 30-F22	1,414.00
KUSG690E	SGBE 30-F32	1,629.00
KUSG700E	SGBE 35-F22	1,875.00
KUSG710E	SGBE 35-F32	2,272.00
KUSG720E	SGBE 35-F42	2,526.00
KUSG730E	SGBE 35-F62	3,035.00
KUSG740E	SGBE 45-F32	3,273.00
KUSG750E	SGBE 45-F42	3,472.00
KUSG760E	SGBE 45-F52	3,607.00
KUSG770E	SGBE 23-F23	1,525.00
KUSG780E	SGBE 23-F33	1,629.00
KUSG790E	SGBE 30-F23	1,946.00
KUSG800E	SGBE 30-F33	2,216.00
KUSG810E	SGBE 35-F23	2,701.00
KUSG820E	SGBE 35-F33	3,337.00
KUSG830E	SGBE 35-F43	3,678.00
KUSG840E	SGBE 35-F63	4,131.00
KUSG850E	SGBE 45-F33	4,830.00
KUSG860E	SGBE 45-F43	4,965.00
KUSG870E	SGBE 45-F53	5,283.00
KUSG880E	SGBE 23-F24	1,955.00
KUSG890E	SGBE 23-F34	2,058.00
KUSG900E	SGBE 30-F24	2,502.00
KUSG910E	SGBE 30-F34	2,884.00
KUSG920E	SGBE 35-F24	3,504.00
KUSG930E	SGBE 35-F34	3,932.00
KUSG940E	SGBE 35-F44	4,481.00
KUSG950E	SGBE 35-F64	4,886.00
KUSG960E	SGBE 45-F34	5,656.00
KUSG970E	SGBE 45-F44	6,451.00
KUSG980E	SGBE 45-F54	7,213.00
KUSG990E	SGBE 23-F25	2,391.00
KUSG1000E	SGBE 23-F35	2,495.00
KUSG1010E	SGBE 30-F25	3,138.00
KUSG1020E	SGBE 30-F35	3,488.00
KUSG1030E	SGBE 35-F25	4,385.00
KUSG1040E	SGBE 35-F35	5,124.00
KUSG1050E	SGBE 35-F45	5,442.00
KUSG1060E	SGBE 35-F65	6,554.00
KUSG1070E	SGBE 45-F35	7,515.00
KUSG1080E	SGBE 45-F45	7,873.00

EXTENDED WARRANTY APPLICABLE: SEE INSIDE BACK COVER.

REMOTE CONDENSERS  
TYPE MS


GEA Küba GmbH



For both vertical and horizontal discharge (configure on site, fans supplied unfitted).

Capacity on R404A,  
15K TD to EN327.

Larger Condensers available on request

## 4 POLE SINGLE PHASE MOTORS

CODE	MODEL	CAPACITY (kW)	NO. OF FANS	dB(A) @ 10m	(BN) £ EA
KUBA2000	MSA N03-1x1A	6.6	1	39	508.00
KUBA2005	MSA N03-1x1B	8.2	1	39	604.00
KUBA2010	MSA N03-1x1C	8.7	1	39	694.00
KUBA2015	MSA N03-1x2A	13.2	2	42	769.00
KUBA2020	MSA N03-1x2B	16.4	2	42	901.00
KUBA2025	MSA N03-1x2C	17.5	2	42	1,027.00
KUBA2030	MSA N03-1x3A	19.7	3	44	986.00
KUBA2035	MSA N03-1x3B	24.6	3	44	1,181.00
KUBA2040	MSA N03-1x3C	26.2	3	44	1,356.00

## 6 POLE SINGLE PHASE MOTORS

KUBA2045	MSA L03-1x1A	5.1	1	30	508.00
KUBA2050	MSA L03-1x1B	6.1	1	30	604.00
KUBA2055	MSA L03-1x1C	6.5	1	30	694.00
KUBA2060	MSA L03-1x2A	10.2	2	33	769.00
KUBA2065	MSA L03-1x2B	12.2	2	33	901.00
KUBA2070	MSA L03-1x2C	12.9	2	33	1,027.00
KUBA2075	MSA L03-1x3A	15.3	3	35	986.00
KUBA2080	MSA L03-1x3B	18.3	3	35	1,181.00
KUBA2085	MSA L03-1x3C	19.3	3	35	1,356.00

ECOBRAZE BRAZED PLATE  
HEAT EXCHANGERS

Copper brazed BHPE.  
Plate material AISI 316/1.4401  
stainlesssteel.

Rated up to 30 bar and +200°C.  
Models suitable for evaporators,  
condensers, oil coolers,  
economisers, subcoolers, heating,  
process cooling etc.

HFC refrigerants, glycol, ethanol,  
water etc.

MODEL	MAX. NO. OF PLATES	MAX. WATER FLOW (M3/HR)	HEIGHT (MM)	WIDTH (MM)	(TA) £ EA
GBS 100	50	4	204	74	PRICES ON APPLICATION
GBS 200	50	6	231	90	
GBS 220	50	6	328	90	
GBS 240	50	6	464	90	
GBS 300	50	10	173	124	
GBS 400	100	10	335	124	
GBS 418	50	6	282	127	
GBS 420	100	10	282	127	
GBS 500	100	10	532	124	
GBS 525	100	10	525	118	
GBS 700L	150	27	532	271	
GBS 700M	150	27	532	271	
GBS 757	160	27	543	281	
GBS 760	130	70	519	257	
GBS 800	260	70	532	271	
GBS 900	260	70	802	271	
GBS 910	200	70	783	318	
GBS 1000H	360	160	875	386	
GBS 1000L	360	160	875	386	

## VIBRATION ELIMINATORS



Stainless steel brazed 'BX' construction with copper ODS tube ends for easy brazing

CODE	SWP PSIG	CONNECTION	(BA) £ LIST EA
JTAG102	400	1/4" ODS	13.75
JTAG103	400	3/8" ODS	13.75
JTAG104	400	1/2" ODS	14.50
JTAG105	400	5/8" ODS	14.50
JTAG106	400	3/4" ODS	16.75
JTAG108	400	7/8" ODS	15.75
JTAG109	400	1.1/8" ODS	23.60
JTAG110	400	1.3/8" ODS	24.85
JTAG111	400	1.5/8" ODS	37.50
JTAG112	400	2.1/8" ODS	43.70
JTAG113	330	2.5/8" ODS	93.50

## SUCTION LINE ACCUMULATORS



CODE	PART NO.	CONNECTION (ODS)	CAPACITY (LITRES)	(BA) £ LIST EA
LRRA175	1010437P	5/8"	1.6	30.45
LRRA185	1010429P	3/4"	2.3	35.70
LRRA190	1010668P	7/8"	2.3	38.85
LRRA195	1010442P	7/8"	3.4	47.25
LRRA200	1010049P	1.1/8"	5.6	68.38
LRRA205	1010052P	1.3/8"	7.8	90.84
LRRA215	1010055P	1.5/8"	11.0	106.96
LRRA220	1010060P	2.1/8"	24.5	172.31

## OIL SEPARATORS

Oil return connection 1/4" flare



CODE	MODEL	CONNECTION (ODS)	VOLUME (LITRES)	CAPACITY (KW)			(BA) £ LIST EA
				R404A	R407A	R134A	
OSEP101	103.0151.A	1/2"	1.5	9.0	10.0	8.0	65.89
OSEP102	103.0117.A	5/8"	1.8	26.0	29.0	22.0	70.88
OSEP103	103.0153.A	7/8"	1.8	34.0	38.0	29.0	74.55
OSEP104	103.0154.A	1.1/8"	2.2	41.0	45.0	35.0	79.80
OSEP105	103.0121.A	1.3/8"	2.2	49.0	54.0	42.0	82.43

Do not select connection smaller than discharge line.

## MOLECULAR SIEVE DRIERS SUITABLE FOR R134A, R404A, R507



CODE	SIZE	CONNECTION (INLET x OUTLET)	(LA) £ LIST EA
GFD201	5 GRAM (XH7)	3/8" x 0.120"	1.25
GFD205	10 GRAM (XH7)	1/4" x 0.100"	1.55
GFD210	15 GRAM (XH7)	1/4" x 0.100"	1.82
GFD213	15 GRAM (XH7)	3/16" x 0.100"	1.82
GFD215	20 GRAM (XH7)	1/4" x 0.100"	2.75
GFD218	20 GRAM (XH7)	3/8" x 0.120"	3.00
GFD220	30 GRAM (XH7)	1/4" x 0.100"	3.30

## COPPER ACCUMULATORS



CODE	STYLE	CONNECTION	DIMENSIONS	(LA) £ LIST EA
GFA010	SINGLE INLET	3/8"	200mm x 24mm DIA	2.40
GFA020	SINGLE INLET	5/16"	200mm x 30mm DIA	3.40
GFA030	SINGLE INLET	3/8"	300mm x 30mm DIA	4.90
GFA090	DOUBLE INLET	5/16"	140mm x 30mm DIA	2.96
GFA100	DOUBLE INLET	5/16"	200mm x 30mm DIA	3.22



LIQUID LINE DRIERS



CATCH ALL SOLID CORE, ACTIVATED ALUMINA & MOLECULAR SIEVE, FLARE CONNECTIONS

CODE	MODEL	CONNECTION SIZE	FLOW CAPACITY TONS @ 1PSI (LIQUID LINE)				(RE) £ LIST EA
			R134A	R407C	R404A/507	R410A	
SPOR104	C-032	1/4"	1.3	1.3	1.0	1.4	7.82
SPOR106	C-032F	1/4"*	1.3	1.3	1.0	1.4	7.90
SPOR107	C-052	1/4"	1.9	1.9	1.4	2.0	10.21
SPOR110	C-053	3/8"	3.8	3.8	2.7	4.0	10.21
SPOR113	C-082	1/4"	1.9	1.9	1.4	2.0	11.95
SPOR116	C-083	3/8"	4.2	4.2	3.0	4.4	11.95
SPOR119	C-084	1/2"	7.9	8.0	5.9	8.5	12.31
SPOR125	C-163	3/8"	4.2	4.2	3.0	4.4	15.34
SPOR128	C-164	1/2"	9.3	9.3	6.8	9.8	16.59
SPOR131	C-165	5/8"	12.6	12.7	9.2	13.4	16.88
SPOR134	C-303	3/8"	4.2	4.2	3.0	4.4	30.44
SPOR137	C-304	1/2"	9.3	9.3	6.8	9.8	30.44
SPOR140	C-305	5/8"	13.6	13.7	9.9	14.5	30.60
SPOR153	C-414	1/2"	10.5	10.5	7.6	11.1	46.12
SPOR156	C-415	5/8"	14.5	14.6	10.6	15.4	46.91

\*SPOR106: this drier has a 1/4" male flare inlet and 1/4" female flare outlet.

SOLID CORE, ACTIVATED ALUMINA & MOLECULAR SIEVE, SOLDER CONNECTIONS

SPOR105	C-032S	1/4"	1.3	1.3	1.0	1.4	7.82
SPOR107	C-052S	1/4"	1.9	1.9	1.4	2.0	10.21
SPOR111	C-053S	3/8"	4.3	4.3	3.1	4.5	10.21
SPOR114	C-082S	1/4"	1.9	1.9	1.4	2.0	11.95
SPOR117	C-083S	3/8"	4.7	4.7	3.4	5.0	11.95
SPOR120	C-084S	1/2"	8.8	8.8	6.4	9.4	12.31
SPOR126	C-163S	3/8"	4.7	4.7	3.4	5.0	15.34
SPOR129	C-164S	1/2"	10.1	10.1	7.3	10.7	16.59
SPOR132	C-165S	5/8"	14.5	14.6	10.6	15.5	16.88
SPOR135	C-303S	3/8"	4.7	4.7	3.4	5.0	30.44
SPOR138	C-304S	1/2"	10.1	10.1	7.3	10.7	30.44
SPOR141	C-305S	5/8"	15.2	14.8	9.2	15.3	30.60
SPOR143	C-306S	3/4"	17.8	17.4	10.8	18.0	31.25
SPOR145	C-307S	7/8"	19.5	19.1	11.9	19.7	31.25
SPOR147	C-309S	1.1/8"	22.3	21.8	13.6	22.6	35.33
SPOR154	C-414S	1/2"	11.4	11.4	8.3	12.1	46.12
SPOR159	C-609S	1.1/8"	30.4	30.7	22.3	32.4	70.69

HEAT PUMP DRIERS



REVERSIBLE HEAT PUMP DRIER – NEW INSTALLATIONS

CODE	MODEL	CONNECTION SIZE	FLOW CAPACITY TONS*		INSTALLATION LENGTH (MM)	SHELL DIA (MM)	(RE) £ LIST EA
			R407C	R410A			
SPOR220	HPC-103	3/8" FL	3.1	3.3	171	76	29.02
SPOR222	HPC-103S	3/8" ODS	3.1	3.3	149	76	29.02
SPOR224	HPC-104	1/2" FL	4.1	4.4	176	76	29.43
SPOR225	HPC-104S	1/2" ODS	4.1	4.4	152	76	29.43
SPOR232	HPC-105	5/8" FL	5.1	5.4	184	76	30.75
SPOR233	HPC-105S	5/8" ODS	5.1	5.4	160	76	30.75

REVERSIBLE HEAT PUMP DRIER – CLEAN UP AFTER BURNOUT

SPOR226	HPC-163HH	3/8" FL	3.4	3.5	198	76	49.20
SPOR228	HPC-164HH	1/2" FL	3.6	3.8	202	76	49.20
SPOR230	HPC-165HH	5/8" FL	4.5	4.6	210	76	50.21

\*Rated capacity at 1psi pressure drop.

DRIER SHELLS- LIQUID LINE



LIQUID LINE SHELL WITH 1/4" FEMALE PIPE CONNECTION AND PIPE PLUG

CODE	MODEL	CONNECTION SIZE	FLOW CAPACITY KW @ 1PSI (LIQUID LINE)			NO. OF CORES	CORE PART NUMBER	(RE) £ LIST EA
			R134A	R407C	R404A/507			
SPOR241	C-R424G	1/2"	36.6	36.9	26.7	1	RCW-42	104.52
SPOR242	C-R425G	5/8"	44.0	44.0	32.0	1	RCW-42	104.52
SPOR244	C-R427G	7/8"	59.4	59.8	43.6	1	RCW-42	130.53
SPOR246	C-485G	5/8"	47.1	47.5	34.5	1		141.10
SPOR248	C-487G	7/8"	77.0	77.4	56.3	1		141.10
SPOR250	C-967G	7/8"	126.0	127.0	62.1	2	RCW-48	161.42
SPOR252	C-969G	1.1/8"	157.0	158.0	115.0	2	OR	161.42
SPOR254	C-1449G	1.1/8"	190.0	192.0	140.0	3	RC-4864	198.72
SPOR256	C-14411G	1.3/8"	216.0	217.0	158.0	3	OR	198.72
SPOR258	C-19211G	1.3/8"	272.0	273.0	198.0	4	RC-4864-HH	233.80
SPOR260	C-19213G	1.5/8"	319.0	320.0	233.0	4		233.80

FOR 'T' FEATURE (ACCESS PRESSURE TAP FITTING) SPECIAL ORDER ONLY ADD EXTRA 8.22

REPLACEABLE CORE DRIER WITH EXTRA LARGE ODF CONNS, FLANGE PLATE DRILLED, TAPPED AND SUPPLIED WITH 1/4" PIPE PLUG

SPOR262	C-489-G	1.1/8"	139.0	140.0	102.0	1		155.81
SPOR264	C-4811-G	1.3/8"	169.0	165.0	102.0	1	RCW-48	161.10
SPOR266	C-4813-G	1.5/8"	176.0	172.0	109.0	1	OR	161.10
SPOR268	C-9611-G	1.3/8"	229.0	225.0	141.0	2	RC-4864	187.16
SPOR270	C-9613-G	1.5/8"	250.0	243.0	151.0	2	OR	193.15
SPOR272	C-14413-G	1.5/8"	278.0	271.0	168.0	3	RC-4864-HH	238.30
SPOR274	C-19217-G	2.1/8"	335.0	337.0	244.0	4		386.30

CORES



FILTER DRIERS CORES, FOR HCFC, HFC AND CFC REFRIGERANTS

CODE	MODEL	TYPE	APPLICATION	(RE) £ LIST EA
SPOR280	RCW-42	HIGH CAPACITY	SUCT/LIQ	29.98
SPOR281	RC-4864	STANDARD	SUCT/LIQ	19.90
SPOR282	RC-4864-HH	WAX REMOVAL	SUCT	31.50
SPOR283	RCW-48	HIGH CAPACITY	SUCT/LIQ	34.04
SPOR284	RPE-48-BD	FELT ELEMENT	SUCT	23.80

DRIER SHELLS - SUCTION LINE



REPLACEABLE SUCTION FILTER SHELL WITH ACCESS VALVE

CODE	MODEL	CONNECTION SIZE	FLOW CAPACITY KW @ -5°C (SUCTION LINE)			NO. OF ELEMENTS	ELEMENT PART NUMBER	(RE) £ LIST EA
			R134A	R22	R404A/507			
SPOR500	RSF-487-T	7/8"	17.6	24.6	24.6	1	RPE-48-DB	151.45
SPOR502	RSF-489-T	1.1/8"	24.6	45.7	38.7	1	RPE-48-DB	151.45
SPOR504	RSF-4811-T	1.3/8"	35.2	59.8	56.3	1	RPE-48-DB	158.60
SPOR506	RSF-4813-T	1.5/8"	45.7	73.9	70.3	1	RPE-48-DB	167.85
SPOR508	RSF-4817-T	2.1/8"	59.8	98.5	95.0	1	RPE-48-DB	175.76
SPOR510	RSF-4821-T	2.5/8"	80.9	127.0	123.0	1	RPE-48-DB	216.78
SPOR512	RSF-9617-T	2.1/8"	70.3	106.0	102.0	2	RPE-48-DB	239.37
SPOR514	RSF-9621-T	2.5/8"	91.4	144.0	141.0	2	RPE-48-DB	275.13
SPOR516	RSF-9625-T	3.1/8"	123.0	200.0	193.0	2	RPE-48-DB	296.82

**BURNOUT DRIERS**

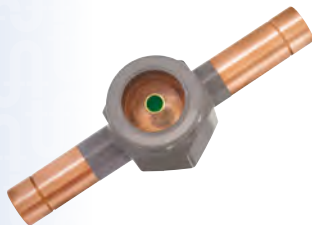
**CATCH ALL BURNOUT DRIERS, SOLID CORE, CHARCOAL STYLE**



CODE	MODEL	CONNECTION	INSTALLATION LENGTH (MM)	SHELL DIA (MM)	(RE) £ LIST EA
SPOR070	C-052HH	1/4" MALE FLARE	132	62	15.05
SPOR076	C-083HH	3/8" MALE FLARE	154	67	19.02
SPOR082	C-163HH	3/8" MALE FLARE	171	76	23.91
SPOR085	C-164HH	1/2" MALE FLARE	176	76	25.73
SPOR088	C-165HH	5/8" MALE FLARE	184	76	26.22
SPOR091	C-303HH	3/8" MALE FLARE	246	76	46.33
SPOR094	C-304HH	1/2" MALE FLARE	251	76	46.33
SPOR097	C-305HH	5/8" MALE FLARE	259	76	46.33
SPOR098	C-305-S-HH	5/8" ODF SOLDER	235	76	46.33
SPOR100	C-417-S-HH	7/8" ODF SOLDER	249	76	64.39
SPOR102	C-609-S-HH	1.1/8" ODF SOLDER	406	76	98.62

**SIGHTGLASSES**

**SEE ALL, FOR CFC, HCFC, AND HFC REFRIGERANTS INC R410A**



CODE	PART NO.	CONNECTION	(RE) £ LIST EA
SPOR002	SA-12	1/4" MALE FLARE	14.07
SPOR003	SA-13	3/8" MALE FLARE	14.62
SPOR004	SA-14	1/2" MALE FLARE	18.27
SPOR005	SA-15	5/8" MALE FLARE	19.03
SPOR007	SA-12FM	1/4" MALE x FEMALE FLARE	14.48
SPOR008	SA-13FM	3/8" MALE x FEMALE FLARE	14.50
SPOR009	SA-14FM	1/2" MALE x FEMALE FLARE	18.89
SPOR012	SA-12S	1/4" ODF SOLDER	14.48
SPOR013	SA-13S	3/8" ODF SOLDER	14.50
SPOR014	SA-14S	1/2" ODF SOLDER	19.15
SPOR015	SA-15S	5/8" ODF SOLDER	19.46
SPOR016	SA-17S	7/8" ODF SOLDER	28.37
SPOR017	SA-19S	1.1/8" ODF SOLDER	31.36
SPOR018	SA-211	1.3/8" ODF SOLDER	62.01
SPOR019	SA-213	1.5/8" ODF SOLDER	71.08
SPOR020	SA-217	2.1/8" ODF SOLDER	90.09

**REPLACEMENT INDICATORS**

CODE	PART NO.	SUITABILITY	(RE) £ LIST EA
SPOR022	K-SA-4	SA-12 TO SA-19	3.48
SPOR024	AC-20	SA-211, 213, 217	20.79

**SIGHTGLASSES**



CODE	PART NO.	CONNECTION	(RE) £ LIST EA
DPAR245	KSG-2S	1/4" EXT SOLDER	13.27
DPAR246	KSG-3S	3/8" EXT SOLDER	13.27
DPAR248	KSG-4S	1/2" EXT SOLDER	15.52
DPAR249	KSG-5S	5/8" EXT SOLDER	15.52
DPAR251	KSG-7S	7/8" EXT SOLDER	22.58
DPAR252	KSG-9S	1.1/8" EXT SOLDER	23.44
DPAR230	KSG 2	1/4" FL	13.27
DPAR231	KSG 3	3/8" FL	13.27
DPAR233	KSG 4	1/2" FL	15.52
DPAR234	KSG 5	5/8" FL	15.52
DPAR192	KSG-2MF	1/4" FL x FEM.FL	13.27
DPAR193	KSG-3MF	3/8" FL x FEM.FL	13.27
DPAR194	KSG-4MF	1/2" FL x FEM.FL	15.52
DPAR196	KSG-5MF	5/8" FL x FEM.FL	15.52

## LIQUID LINE FILTER DRIERS



Suitable for HCFC, HFC and CFC refrigerants.

CODE		MODEL	CONNECTION SIZE	FLOW CAPACITY KW @ 1PSI (LIQUID LINE)				(CA) £ LIST EA
FLARE	ODS			R134A	R407C	R404A	R410A	
EPAR100	EPAR120	032	1/4"	6.0	6.2	4.4	6.5	6.86
EPAR102	EPAR122	052	1/4"	6.5	6.7	4.7	7.0	8.52
EPAR103	EPAR123	053	3/8"	16.9	17.3	12.2	18.2	8.80
EPAR104	EPAR124	082	1/4"	7.1	7.2	5.1	7.6	9.98
EPAR105	EPAR125	083	3/8"	17.4	17.8	12.5	18.7	10.08
EPAR106	EPAR126	084	1/2"	26.3	26.9	19.0	28.3	10.31
EPAR107	EPAR127	162	1/4"	7.1	7.2	5.1	7.6	12.67
EPAR108	EPAR128	163	3/8"	19.2	19.7	13.9	20.7	12.88
EPAR109	EPAR130	164	1/2"	34.6	35.6	25.1	37.4	13.08
EPAR110	EPAR131	165	5/8"	46.6	47.8	33.7	50.3	13.31
EPAR111	EPAR134	303	3/8"	19.7	20.2	14.2	21.2	21.68
EPAR112	EPAR132	304	1/2"	38.0	38.9	27.4	40.9	21.79
EPAR113	EPAR133	305	5/8"	48.4	49.5	35.0	52.1	22.12
EPAR116	EPAR136	415	5/8"	51.5	52.8	37.2	55.6	35.21

## FILTER DRIER CORES

To suit Parker shells and most other 48 cubic inch shells (except PCK 100). For HCFC, HFC and CFC refrigerants.

CODE	MODEL	APPLICATION	TYPE	(CA) £ LIST EA
GPAR157	PCX48	SUCTION AND LIQUID	HIGH CAP. DRIER	24.40
GPAR153	PFE-48BF	SUCTION LINES	FILTER	37.79
GPAR155	Z48	LIQUID	SUPER HIGH CAP DRIER	66.51
GPAR152	PCK100	SUCTION AND LIQUID	DRIER	46.77

For drier core comparisons see section 7.

## SUCTION LINE FILTER (BURN-OUT) DRIERS



For HCFC, HFC and CFC refrigerants.

Solid core high acid pick-up with inlet and outlet access fittings.

CODE	MODEL	CONNECTION	INSTALLATION LENGTH INS	SHELL DIAMETER INS	(CA) £ LIST EA
FPAR101	SLD8-3V	3/8" FLARE	5.13	3	38.74
FPAR100	SLD8-3SV	3/8" ODS	3.13	3	39.62
FPAR103	SLD8-4V	1/2" FLARE	5.38	3	38.74
FPAR102	SLD8-4SV	1/2" ODS	3.13	3	38.74
FPAR111	SLD13-5V	5/8" FLARE	5.82	4	52.26
FPAR104	SLD13-5SV	5/8" ODS	3.45	4	52.26
FPAR105	SLD13-6SV	3/4" ODS	3.45	4	48.87
FPAR110	SLD13-7SV	7/8" ODS	3.47	4	48.87
FPAR106	SLD27-7SV	7/8" ODS	5.47	4	52.26
FPAR107	SLD27-9SV	1.1/8" ODS	5.36	4	61.60
FPAR108	SLD54-11SV	1.3/8" ODS	9.17	4	95.45
FPAR109	SLD54-13SV	1.5/8" ODS	9.17	4	105.63

## LIQUID LINE DRIERS



Solid core.

Suitable for HFC and HCFC refrigerants including R410a.

CODE		SIZE	CONNECTION	MODEL NO. FLARE	MODEL NO. SOLDER	(CA) £ LIST EA
FLARE	ODS					
SANH050	SANH085	032	1/4"	DTG-B03024-901	DTG-B03020-901	4.41
SANH052	SANH087	052	1/4"	DTG-B05024-901	DTG-B05020-901	5.58
SANH054	SANH089	053	3/8"	DTG-B05034-901	DTG-B05030-901	5.69
SANH056	SANH091	082	1/4"	DTG-B08024-901	DTG-B08020-901	6.62
SANH058	SANH093	083	3/8"	DTG-B08034-901	DTG-B08030-901	6.62
SANH060	SANH095	084	1/2"	DTG-B08044-901	DTG-B08040-901	6.65
SANH062	SANH097	163	3/8"	DTG-B16034-901	DTG-B16030-901	7.68
SANH064	SANH099	164	1/2"	DTG-B16044-901	DTG-B16040-901	8.00
SANH066	SANH101	165	5/8"	DTG-B16054-901	DTG-B16050-901	8.21
SANH068	SANH103	303	3/8"	DTG-B30034-901	DTG-B30030-901	13.32
SANH070	SANH105	304	1/2"	DTG-B30044-901	DTG-B30040-901	13.32
SANH072	SANH107	305	5/8"	DTG-B30054-901	DTG-B30050-901	13.32

LIQUID LINE SIGHTGLASS



With moisture indicator.

CODE	MODEL	CONNECTION	(AA) £ LIST EA
SANH130	SYJ-A02040-000	1/4" FL	7.85
SANH132	SYJ-A02060-000	3/8" FL	8.40
SANH134	SYJ-A02080-000	1/2" FL	12.75
SANH136	SYJ-A02100-000	5/8" FL	13.50
SANH140	SYJ-A00040-000	1/4" EXT SOLDER	7.85
SANH142	SYJ-A00060-000	3/8" EXT SOLDER	8.40
SANH144	SYJ-A00080-000	1/2" EXT SOLDER	12.75
SANH146	SYJ-A00100-000	5/8" EXT SOLDER	13.50
SANH148	SYJ-A00120-000	3/4" EXT SOLDER	17.20
SANH150	SYJ-A00140-000	7/8" EXT SOLDER	18.40
SANH160	SYJ-A02040-100	1/4" MxF FL	7.89
SANH162	SYJ-A02060-100	3/8" MxF FL	8.57
SANH164	SYJ-A02080-100	1/2" MxF FL	11.20
SANH166	SYJ-A02100-100	5/8" MxF FL	11.80

SERVICE DRIERS



CODE	MODEL	TYPE	CONNECTIONS		(CA) £ LIST EA
			INLET	OUTLET	
EPAR250	MMS-80	10 GRAM	1/4" ODS	1/4" ODS	4.51
EPAR252	MMS-200	20 GRAM	1/4"-3/8" ODS	1/4"-3/8" ODS	11.15
EPAR253	712	10 GRAM	1/4" ODS	0.092 ODS	6.33
EPAR254	319	30 GRAM	5/16" ODS	0.130 ODS	11.55
EPAR255	619	10 GRAM	1/4" ODS	0.092 ODS	8.96
EPAR256	620	20 GRAM	1/4"-5/16" ODS	0.130 ODS	11.55

STOP VALVES WITH ACCESS FITTING



CODE	PART NO.	CONNECTION	(AA) £ LIST EA
APAR172	QL 170-6-6	3/8" ODS EXT	13.04
APAR173	QL 170-8-8	1/2" ODS EXT	19.98
APAR174	QL 170-10-10	5/8" ODS EXT	20.95

BALL STOP VALVES



Safe working pressure 45 Bar  
temperature range -40 to +150°C  
Bi-directional.  
Also available with Schrader valve.

CODE	PART NO.	CONNECTION	PORT MM	(AA) £ LIST EA
APAR300	BV2	1/4"	10	25.40
APAR302	BV3	3/8"	10	26.20
APAR304	BV4	1/2"	10	26.20
APAR306	BV5	5/8"	16	26.75
APAR308	BV6	3/4"	16	38.04
APAR310	BV7	7/8"	20	41.15
APAR312	BV9	1.1/8"	25	49.28
APAR314	BV11	1.3/8"	32	88.69
APAR316	BV13	1.5/8"	38	111.02
APAR318	BV17	2.1/8"	50	154.73
APAR320	BV21	2.5/8"	62	216.24
APAR322	BV25	3.1/8"	64	431.65

BALL STOP VALVES



Safe working pressure 45 Bar  
temperature range -40 to +150°C  
Bi-directional.  
Also available with Schrader valve.

CODE	MODEL	CONNECTION	PORT MM	(AA) £ LIST EA
TEDF020	TF-VABS-1/4	1/4"	8	8.05
TEDF022	TF-VABS-3/8	3/8"	8	8.62
TEDF024	TF-VABS-1/2	1/2"	10	9.01
TEDF026	TF-VABS-5/8	5/8"	13	10.82
TEDF028	TF-VABS-3/4	3/4"	17	13.74
TEDF030	TF-VABS-7/8	7/8"	20	18.20
TEDF032	TF-VABS-1.1/8	1.1/8"	25	22.52
TEDF034	TF-VABS-1.3/8	1.3/8"	32	37.08
TEDF036	TF-VABS-1.5/8	1.5/8"	40	54.53
TEDF038	TF-VABS-2.1/8	2.1/8"	52	81.70
TEDF040	TF-VABS-2.5/8	2.5/8"	62	128.07



## CHECK VALVES



Maximum working pressure 46 bar, temperature -50°C to +140°C.

CODE	MODEL	CONNECTION	(AA) £ LIST EA
SANH200	YCVS5-22GSHC-1	1/4" EXT SOLDER	8.52
SANH202	YCVS8-33GSHC-1	3/8" EXT SOLDER	9.69
SANH204	YCVS10-44GSHC-1	1/2" EXT SOLDER	12.59
SANH206	YCVS13-55GSHC-1	5/8" EXT SOLDER	19.53
SANH208	YCVS17-66GSHC-1	3/4" EXT SOLDER	34.07
SANH210	YCVS17-77GSHC-1	7/8" EXT SOLDER	34.07
SANH222	YCVS20-77GSHC-1	7/8" ANGLE SOLDER	46.86
SANH224	YCVS26-99GSHC-1	1.1/8" ANGLE SOLDER	126.90
SANH226	YCVS31-BBGSHC-1	1.3/8" ANGLE SOLDER	142.95
SANH228	YCVS31-DDGSHC-1	1.5/8" ANGLE SOLDER	142.95

## PRESSURE RELIEF VALVES



CODE	PART NO.	PRESSURE	CONNECTION		(AA) £ LIST EA
			INLET	OUTLET	
BMUL210	AH15001	400 PSI	1/4" MPT	3/8" FL	56.25
BMUL217	AH15502	400 PSI	3/8" MPT	3/8" FL	56.25
BMUL250	AH15504	400 PSI	1/2" MPT	5/8" FL	71.12
BMUL287	AH15509	400 PSI	1/4" MPT	ATMOS	39.69
BMUL290	AH17430	400 PSI	3/8" MPT	ATMOS	47.96

Other pressure settings on request.

Brass body. Neoprene seat disc. Lead seal and locking wire.

## FUSIBLE PLUGS



CODE	MODEL	CONNECTION/TEMP	(AA) £ LIST EA
BMUL352	A15214	1/8" MPT, 75°C	3.47
BMUL351	A14019	1/4" MPT, 75°C	4.46
BMUL353	A14022	3/8" MPT, 75°C	5.45

## SUCTION TO LIQUID LINE HEAT EXCHANGERS



CODE	PART NO.	CONNECTION	CAPACITY KW (R404A)	(RE) £ LIST EA
LRRH100	HX1/2	1/2" x 1/4"	0.37	45.32
LRRH105	HX3/4	5/8" x 3/8"	0.56	46.35
LRRH110	HX1/2	5/8" x 3/8"	0.75	48.41
LRRH115	HX1.1/2	7/8" x 3/8"	1.12	58.71
LRRH120	HX2	1.1/8" x 3/8"	1.50	76.22
LRRH125	HX3	1.1/8" x 1/2"	2.24	77.25
LRRH130	HX5	1.3/8" x 5/8"	3.73	138.02
LRRH135	HX7.1/2	1.5/8" x 5/8"	5.60	141.11
LRRH140	HX10	2.1/8" x 7/8"	7.46	257.50
LRRH145	HX15	2.1/8" x 7/8"	11.19	486.16
LRRH150	HX20	2.1/8" x 1.1/8"	14.92	495.43

## LIQUID RECEIVERS



Fitted with valve on the outlet. Fusible plug supplied but not fitted. (No valves or plug on Rotolock models)

CODE	STYLE	CONNECTION	CAPACITY LITRES	(BA) £ LIST EA
LRCR160	VERTICAL	3/8" ODS	2.3	50.47
LRCR180	VERTICAL	3/8" ODS	3.4	56.39
LRCR230	VERTICAL	3/8" ODS	5.6	69.94
LRCR240	VERTICAL	1/2" ODS	6.9	73.84
LRCR270	VERTICAL	1/2" ODS	10.0	93.29
LRCR290	VERTICAL	5/8" ODS	14.5	104.93
LRCR325	VERTICAL	ROTOLOCK	24.5	127.31
LRCR585	HORIZONTAL	ROTOLOCK	40.0	668.34
LRCR595	HORIZONTAL	ROTOLOCK	60.0	775.09
LRCR600	HORIZONTAL	ROTOLOCK	80.0	813.94

## LINE TAP VALVES



CODE	PART NO.	LINE SIZE	(AA) £ LIST EA
CWAG100	QTM1	1/4", 5/16", 3/8"	3.70
CWAG101	QT2	1/2", 5/8"	3.85
LTG030	BPV31	1/4", 5/16", 3/8"	2.99

**COPPER FITTINGS  
COUPLINGS**



Solder to Solder. Style: WC400.

CODE	PART NO.	SIZE	BOX	(DA) £ LIST EA
KCFT102	W1003	1/4"	100	0.31
KCFT103	W1009	3/8"	50	0.22
KCFT104	W1017	1/2"	50	0.29
KCFT105	W1022	5/8"	100	0.25
KCFT106	W1028	3/4"	25	0.62
KCFT107	W1034	7/8"	50	0.43
KCFT108	W1047	1.1/8"	25	0.90
KCFT109	W1055	1.3/8"	25	1.56
KCFT110	W1063	1.5/8"	10	2.05
KCFT111	W1072	2.1/8"	1	3.41
KCFT112	W1082	2.5/8"	1	7.73
KCFT114	W10100	3.5/8"	1	20.99
KCFT115	W10107	4.1/8"	1	25.38

**COUPLINGS, REDUCING**

Solder to Solder. Style: WC400R.



Mueller fittings are to ASME B16.22 specifications.

KCFT138	W1005	1/4" x 1/8"	50	1.70
KCFT140	W1011	3/8" x 1/4"	50	1.70
KCFT141	W1019	1/2" x 3/8"	50	0.60
KCFT142	W1021	1/2" x 1/4"	50	0.60
KCFT143	W1023	5/8" x 1/2"	50	0.58
KCFT144	W1025	5/8" x 3/8"	50	0.58
KCFT145	W1027	5/8" x 1/4"	100	0.58
KCFT146	W1029	3/4" x 5/8"	100	1.38
KCFT148	W1031	3/4" x 3/8"	100	1.38
KCFT149	W1035	7/8" x 3/4"	100	0.96
KCFT150	W1036	7/8" x 5/8"	50	0.96
KCFT151	W1037	7/8" x 1/2"	50	0.96
KCFT153	W1049	1.1/8" x 7/8"	25	1.81
KCFT154	W1050	1.1/8" x 3/4"	25	1.81
KCFT155	W1051	1.1/8" x 5/8"	25	1.81
KCFT156	W1052	1.1/8" x 1/2"	25	1.81
KCFT157	W1056	1.3/8" x 1.1/8"	10	2.51
KCFT158	W1058	1.3/8" x 7/8"	10	2.51
KCFT159	W1060	1.3/8" x 5/8"	10	2.51
KCFT160	W1064	1.5/8" x 1.3/8"	10	4.16
KCFT161	W1065	1.5/8" x 1.1/8"	10	4.16
KCFT162	W1067	1.5/8" x 7/8"	10	4.16
KCFT163	W1069	1.5/8" x 5/8"	10	4.16
KCFT164	W1073	2.1/8" x 1.5/8"	1	6.42
KCFT165	W1074	2.1/8" x 1.3/8"	1	6.42
KCFT166	W1075	2.1/8" x 1.1/8"	1	6.42
KCFT167	W1077	2.1/8" x 7/8"	1	6.42
KCFT168	W1079	2.1/8" x 5/8"	1	6.42
KCFT169	W1083	2.5/8" x 2.1/8"	1	14.15
KCFT170	W1084	2.5/8" x 1.5/8"	1	14.15
KCFT171	W1085	2.5/8" x 1.3/8"	1	14.15
KCFT172	W1086	2.5/8" x 1.1/8"	1	14.15
KCFT173	W1093	3.1/8" x 2.5/8"	1	18.28
KCFT174	W1094	3.1/8" x 2.1/8"	1	18.28
KCFT175	W1095	3.1/8" x 1.5/8"	1	18.28
KCFT179	W10101	3.5/8" x 3.1/8"	1	27.32

**UNIONS**

Solder to Solder. Style: WC407



KCFT191	W8003	5/8"	25	3.18
KCFT193	W8005	1.1/8"	10	7.42

See also our Industrial Price List.

## FITTING REDUCERS



Fitting to Solder. Style: WC403.

CODE	PART NO.	SIZE	BOX	(DA) £ LIST EA
KCFT195	W1306	3/8" x 1/4"	50	0.66
KCFT196	W1312	1/2" x 3/8"	50	0.88
KCFT197	W1314	1/2" x 1/4"	50	0.88
KCFT198	W1315	5/8" x 1/2"	50	0.72
KCFT199	W1317	5/8" x 3/8"	50	0.72
KCFT200	W1320	3/4" x 5/8"	100	1.50
KCFT202	W1322	3/4" x 3/8"	100	1.50
KCFT203	W1325	7/8" x 3/4"	100	1.08
KCFT204	W1326	7/8" x 5/8"	50	1.08
KCFT205	W1327	7/8" x 1/2"	50	1.08
KCFT206	W1337	1.1/8" x 7/8"	25	1.73
KCFT207	W1338	1.1/8" x 3/4"	25	1.73
KCFT208	W1339	1.1/8" x 5/8"	25	1.73
KCFT209	W1340	1.1/8" x 1/2"	20	1.73
KCFT210	W1343	1.3/8" x 1.1/8"	10	2.80
KCFT211	W1345	1.3/8" x 7/8"	10	2.80
KCFT212	W1347	1.3/8" x 5/8"	10	2.80
KCFT213	W1350	1.5/8" x 1.3/8"	10	3.55
KCFT214	W1351	1.5/8" x 1.1/8"	10	3.55
KCFT215	W1353	1.5/8" x 7/8"	10	3.55
KCFT217	W1358	2.1/8" x 1.5/8"	1	6.76
KCFT219	W1360	2.1/8" x 1.1/8"	1	6.76
KCFT220	W1362	2.1/8" x 7/8"	1	6.76
KCFT221	W1364	2.1/8" x 5/8"	1	6.76
KCFT222	W1367	2.5/8" x 2.1/8"	1	13.43
KCFT223	W1368	2.5/8" x 1.5/8"	1	13.43
KCFT224	W1369	2.5/8" x 1.3/8"	1	13.43
KCFT225	W1370	2.5/8" x 1.1/8"	1	13.43
KCFT226	W1376	3.1/8" x 2.5/8"	1	16.87
KCFT227	W1377	3.1/8" x 2.1/8"	1	16.87
KCFT228	W1378	3.1/8" x 1.5/8"	1	16.87
KCFT229	W1379	3.1/8" x 1.3/8"	1	16.87
KCFT230	W1381	3.5/8" x 3.1/8"	1	21.79
KCFT231	W1382	3.5/8" x 2.5/8"	1	21.79
KCFT232	W1383	3.5/8" x 2.1/8"	1	21.79
KCFT233	W1386	4.1/8" x 3.5/8"	1	33.65
KCFT234	W1387	4.1/8" x 3.1/8"	1	33.65

## ADAPTORS

Solder to MPT. Style: WC401.



KCFT284	W1115	3/8" x 1/4"	50	3.77
KCFT288	W1125	1/2" x 3/8"	50	2.44
KCFT292	W1131	5/8" x 1/2"	100	0.74
KCFT298	W1146	7/8" x 3/4"	50	1.38
KCFT302	W1163	1.1/8" x 1.0"	25	3.25
KCFT306	W1171	1.3/8" x 1.1/4"	20	4.78
KCFT307	W1172	1.3/8" x 1.0"	10	4.78
KCFT310	W1179	1.5/8" x 1.1/2"	10	5.51
KCFT311	W1180	1.5/8" x 1.1/4"	10	9.00
KCFT313	W1187	2.1/8" x 2.0"	1	9.32
KCFT314	W1188	2.1/8" x 1.1/2"	1	14.47

## ADAPTORS

Solder to FPT. Style: WC402.



KCFT326	W1215	3/8" x 1/4"	50	2.46
KCFT330	W1225	1/2" x 3/8"	50	2.48
KCFT335	W1233	5/8" x 1/4"	50	1.55
KCFT336	W1238	3/4" x 3/4"	50	2.32
KCFT339	W1246	7/8" x 3/4"	25	1.63
KCFT341	W1263	1.1/8" x 1.0"	25	3.35
KCFT350	W1287	2.1/8" x 2.0"	1	11.75



**ELBOWS 90° SHORT RADIUS**



Solder to Solder.  
Style: WE500 and WE500R.  
Low Pressure Drop Design

CODE	PART NO.	SIZE	BOX	(DA) £ LIST EA
KCFT380	W2003	1/4"	50	0.88
KCFT381	W2009	3/8"	50	0.88
KCFT382	W2017	1/2"	50	0.91
KCFT383	W2022	5/8"	100	0.91
KCFT384	W2028	3/4"	50	1.81
KCFT385	W2034	7/8"	50	1.63
KCFT386	W2047	1.1/8"	25	2.22
KCFT387	W2084	1.3/8"	25	2.40
KCFT388	W2085	1.5/8"	10	3.77
KCFT389	W2086	2.1/8"	10	8.81
KCFT390	W2087	2.5/8"	5	14.60
KCFT391	W2088	3.1/8"	2	20.59
KCFT392	W2089	3.5/8"	2	67.39
KCFT397	W2011	3/8" x 1/4"	50	2.80
KCFT398	W2019	1/2" x 3/8"	50	1.70
KCFT399	W2023	5/8" x 1/2"	50	3.00
KCFT402	W2030	3/4" x 1/2"	50	2.04
KCFT403	W2035	7/8" x 3/4"	50	1.99
KCFT404	W2036	7/8" x 5/8"	50	1.99
KCFT405	W2037	7/8" x 1/2"	50	1.99
KCFT406	W2049	1.1/8" x 7/8"	25	3.85
KCFT411	W2077	1.5/8" x 1.3/8"	5	13.30
KCFT412	W2078	2.1/8" x 1.5/8"	5	16.85

**ELBOWS 90° LONG RADIUS**

Solder to Solder. Style: WE500L.



KCFT414	W2715	1/4"	50	1.38
KCFT416	W2716	3/8"	50	1.38
KCFT417	W2717	1/2"	50	1.66
KCFT418	W2722	5/8"	50	1.45
KCFT419	W2728	3/4"	50	1.55
KCFT420	W2734	7/8"	25	2.00
KCFT421	W2747	1.1/8"	10	2.92
KCFT423	W2055	1.3/8"	10	4.63
KCFT424	W2063	1.5/8"	5	6.18
KCFT425	W2072	2.1/8"	5	16.31
KCFT426	W2082	2.5/8"	5	31.04
KCFT427	W2092	3.1/8"	2	43.88
KCFT428	W2093	3.5/8"	1	137.20
KCFT429	W2095	4.1/8"	1	137.20

**ELBOWS 90° SHORT RADIUS**

Fitting to Solder. Style: WE503.



KCFT439	W2305	1/4"	50	2.20
KCFT440	W2312	3/8"	50	2.20
KCFT441	W2321	1/2"	50	1.27
KCFT442	W2326	5/8"	50	1.14
KCFT443	W2330	3/4"	25	2.22
KCFT444	W2334	7/8"	25	1.90
KCFT445	W2344	1.1/8"	25	2.99
KCFT446	W2384	1.3/8"	25	4.74
KCFT447	W2385	1.5/8"	10	6.07
KCFT448	W2386	2.1/8"	10	12.92
KCFT449	W2387	2.5/8"	5	21.58

**ELBOWS 90° LONG RADIUS**

Fitting to Solder. Style: WE503L.



KCFT454	W2817	1/2"	50	3.79
KCFT455	W2822	5/8"	50	2.90
KCFT456	W2828	3/4"	25	3.11
KCFT457	W2834	7/8"	25	3.49
KCFT458	W2847	1.1/8"	10	5.11
KCFT459	W2350	1.3/8"	10	7.57
KCFT460	W2355	1.5/8"	5	10.16
KCFT461	W2359	2.1/8"	5	16.88
KCFT462	W2363	2.5/8"	5	32.08
KCFT463	W2368	3.1/8"	2	47.60

## ELBOWS 45° LONG RADIUS

Solder to Solder. Style: WE504.



CODE	PART NO.	SIZE	BOX	(DA) £ LIST EA
KCFT486	W3012	3/8"	50	2.15
KCFT487	W3021	1/2"	50	1.70
KCFT488	W3026	5/8"	50	0.65
KCFT489	W3030	3/4"	50	3.26
KCFT490	W3034	7/8"	25	1.10
KCFT491	W3044	1.1/8"	25	2.83
KCFT492	W3050	1.3/8"	10	3.92
KCFT493	W3055	1.5/8"	10	4.70
KCFT494	W3059	2.1/8"	10	7.82
KCFT495	W3063	2.5/8"	5	16.70
KCFT496	W3067	3.1/8"	2	24.88
KCFT497	W3070	3.5/8"	2	42.37
KCFT498	W3073	4.1/8"	2	52.27

## EQUAL TEES

Solder to Solder. Style: WT600.



KCFT569	W40302	3/16"	50	2.05
KCFT570	W40306	1/4"	100	1.98
KCFT571	W40313	5/16"	50	2.05
KCFT572	W4000	3/8"	50	1.98
KCFT573	W4001	1/2"	50	1.45
KCFT574	W4006	5/8"	50	0.52
KCFT575	W4017	3/4"	25	3.17
KCFT576	W4031	7/8"	25	1.27
KCFT577	W4048	1.1/8"	10	3.70
KCFT578	W4068	1.3/8"	5	5.58
KCFT579	W4084	1.5/8"	5	7.73
KCFT580	W40102	2.1/8"	5	11.99
KCFT581	W40123	2.5/8"	2	30.14
KCFT583	W40190	3.5/8"	1	112.70
KCFT584	W40200	4.1/8"	1	99.60

## REDUCING TEES

Last size is the branch.

Solder to Solder.

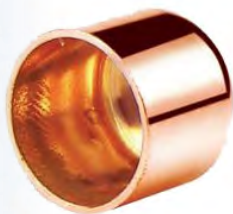
WT600R. RR. BH.



KCFT587	W40368	1/4" x 1/4" x 3/8"	50	5.11
KCFT592	W4016	3/8" x 3/8" x 5/8"	50	3.11
KCFT594	W40324	3/8" x 3/8" x 1/4"	50	3.48
KCFT599	W4015	1/2" x 1/2" x 5/8"	50	3.11
KCFT600	W4002	1/2" x 1/2" x 3/8"	50	3.85
KCFT604	W4004	1/2" x 3/8" x 3/8"	50	5.09
KCFT609	W4067	5/8" x 5/8" x 1.1/8"	10	5.09
KCFT610	W4047	5/8" x 5/8" x 7/8"	25	2.90
KCFT611	W4029	5/8" x 5/8" x 3/4"	25	8.48
KCFT614	W4014	5/8" x 5/8" x 1/4"	50	3.85
KCFT616	W4010	5/8" x 1/2" x 1/2"	50	3.96
KCFT619	W40367	5/8" x 3/8" x 1/2"	50	4.63
KCFT622	W4018	3/4" x 3/4" x 5/8"	25	5.05
KCFT623	W4019	3/4" x 3/4" x 1/2"	25	5.05
KCFT633	W4032	7/8" x 7/8" x 3/4"	25	1.38
KCFT634	W4033	7/8" x 7/8" x 5/8"	25	1.38
KCFT635	W4034	7/8" x 7/8" x 1/2"	25	1.38
KCFT641	W4043	7/8" x 5/8" x 5/8"	25	1.73
KCFT649	W4049	1.1/8" x 1.1/8" x 7/8"	5	4.57
KCFT650	W4050	1.1/8" x 1.1/8" x 3/4"	10	4.57
KCFT651	W4051	1.1/8" x 1.1/8" x 5/8"	10	4.57
KCFT652	W4052	1.1/8" x 1.1/8" x 1/2"	10	4.57
KCFT668	W4069	1.1/8" x 1.3/8" x 1.1/8"	5	6.61
KCFT654	W4056	1.1/8" x 7/8" x 7/8"	10	5.39
KCFT656	W4058	1.1/8" x 7/8" x 5/8"	10	5.39
KCFT660	W40235	1.1/8" x 3/4" x 3/4"	10	5.39
KCFT667	W40100	1.3/8" x 1.3/8" x 1.5/8"	5	13.54
KCFT672	W4073	1.3/8" x 1.1/8" x 1.3/8"	5	6.96
KCFT669	W4070	1.3/8" x 1.3/8" x 7/8"	5	6.61
KCFT670	W4071	1.3/8" x 1.3/8" x 5/8"	5	6.61
KCFT673	W4074	1.3/8" x 1.1/8" x 1.1/8"	5	8.54
KCFT675	W4076	1.3/8" x 1.1/8" x 5/8"	5	8.54
KCFT679	W4080	1.3/8" x 7/8" x 7/8"	5	8.54
KCFT684	W4086	1.5/8" x 1.5/8" x 1.1/8"	5	7.57
KCFT685	W4085	1.5/8" x 1.5/8" x 1.3/8"	5	7.57
KCFT686	W4088	1.5/8" x 1.5/8" x 5/8"	5	7.57
KCFT739	W40151	3.1/8" x 3.1/8" x 2.5/8"	2	37.98
KCFT750	W40155	3.1/8" x 2.5/8" x 1.3/8"	2	61.91

**TUBE CAPS**

Solder. Style: WC415.



CODE	PART NO.	SIZE	BOX	(DA) £ LIST EA
KCFT900	W7002	1/4"	50	0.30
KCFT901	W7004	3/8"	50	0.31
KCFT902	W7006	1/2"	50	0.52
KCFT903	W7007	5/8"	100	0.26
KCFT904	W7008	3/4"	50	0.59
KCFT905	W7009	7/8"	50	0.46
KCFT906	W7011	1.1/8"	50	1.08
KCFT907	W7012	1.3/8"	25	1.54
KCFT908	W7013	1.5/8"	25	2.22
KCFT909	W7014	2.1/8"	1	4.12
KCFT910	W7015	2.5/8"	1	12.76
KCFT911	W7016	3.1/8"	1	17.58
KCFT912	W7017	3.5/8"	1	62.82

**RETURN BENDS**

Solder to Solder. Style: WE512.



KCFT915	W6020	3/8" x 1.1/2"	25	1.10
KCFT921	W6035	1/2" x 1.29/32"	50	1.67
KCFT922	W6032	1/2" x 1.1/2"	50	1.81
KCFT928	W6056	5/8" x 2.1/4"	25	4.37
KCFT930	W6051	5/8" x 1.9/16"	25	3.07
KCFT934	W6074	3/4" x 2.1/8"	10	5.41
KCFT935	W6073	3/4" x 2.0"	10	10.20
KCFT939	W6092	7/8" x 2.1/2"	10	5.50
KCFT940	W60110	1.1/8" x 3.0"	5	11.29
KCFT942	W60121	1.3/8" x 3.3/4"	5	17.86
KCFT943	W60131	1.5/8" x 4.1/2"	1	22.44
KCFT944	W60140	2.1/8" x 5.1/2"	1	58.20

**SUCTION LINE P - TRAPS**

Solder to Solder. Style: WE554P.



KCFT945	W60999	5/8"	10	10.80
KCFT946	W61008	3/4"	10	15.43
KCFT947	W61000	7/8"	5	15.24
KCFT948	W61001	1.1/8"	3	17.92
KCFT949	W61002	1.3/8"	4	28.32
KCFT950	W61003	1.5/8"	1	42.89
KCFT951	W61009	2.1/8"	1	87.77

**PIPE SADDLES**



KCSD100	PS-2	1/8"	100	0.08
KCSD101	PS-4	1/4"	100	0.08
KCSD103	PS-6	3/8"	100	0.12
KCSD105	PS-8	1/2"	100	0.12
KCSD106	PS-10	5/8"	100	0.16
KCSD107	PS-12	3/4"	100	0.20
KCSD108	PS-14	7/8"	100	0.25
KCSD109	PS-18	1.1/8"	100	0.37
KCSD110	PS-22	1.3/8"	100	0.46
KCSD112	PS-26	1.5/8"	100	0.65
KCSD113	PS-34	2.1/8"	100	0.82
KCSD114	PS-42	2.5/8"	100	1.10
KCSD120	PS-46	1/4" x 3/8"	100	0.18
KCSD126	PS-610	3/8" x 5/8"	100	0.22
KCSD127	PS-612	3/8" x 3/4"	100	0.22
KCSD128	PS-1012	5/8" x 3/4"	100	0.26

While stocks last

## FLARE NUTS



CODE	PART NO.	SIZE	(EA) £ LIST EA
LFFT100	N4-4	LONG 1/4"	2.74
LFFT102	N4-6	LONG 3/8"	3.25
LFFT103	N4-8	LONG 1/2"	4.22
LFFT104	N4-10	LONG 5/8"	4.93
LFFT105	N4-12	LONG 3/4"	9.53
LFFT108	NR4-64	LONG 3/8" x 1/4" RED	4.24
LFFT112	NS4-3	SHORT 3/16"	2.59
LFFT113	NS4-4	SHORT 1/4"	0.82
LFFT114	NS4-5	SHORT 5/16"	1.93
LFFT115	NS4-6	SHORT 3/8"	1.18
LFFT116	NS4-8	SHORT 1/2"	1.50
LFFT117	NS4-10	SHORT 5/8"	2.09
LFFT118	NS4-12	SHORT 3/4"	5.38
LFFT119	NS4-14	SHORT 7/8"	6.68
LFFT121	NRS4-64	SHRT 3/8" x 1/4" RED	4.04
LFFT123	NRS4-86	SHRT 1/2" x 3/8" RED	3.74
LFFT124	NRS4-108	SHRT 5/8" x 1/2" RED	4.08
LFFT125	NRS4-1210	SHRT 3/4" x 5/8" RED	8.45

## FLARE TO SOLDER SWIVEL CONNECTORS

Stek Couplings



LFFT004	KRCY2	1/4" FL x ODS	2.59
LFFT006	KRCY3	3/8" FL x ODS	3.19
LFFT008	KRCY4	1/2" FL x ODS	3.86
LFFT010	KRCY5	5/8" FL x ODS	5.46
LFFT012	KRCY6	3/4" FL x ODS	11.70
LFFT014	KRCY7	7/8" FL x ODS	11.70
LFFT026	KRCY32	3/8" FL TO 1/4" ODS	3.95
LFFT028	KRCY43	1/2" FL TO 3/8" ODS	3.95
LFFT030	KRCY54	5/8" FL x 1/2" ODS	5.46
LFFT036	KRCY45	1/2" FL x 5/8" ODS	5.46

## HALF UNIONS

Flare x MPT.



LFFT126	U1-4A	1/4" FL x 1/8" MPT	2.60
LFFT127	U1-4B	1/4" FL x 1/4" MPT	1.66
LFFT128	U1-4C	1/4" FL x 3/8" MPT	1.88
LFFT133	U1-6A	3/8" FL x 1/8" MPT	2.56
LFFT134	U1-6B	3/8" FL x 1/4" MPT	2.23
LFFT135	U1-6C	3/8" FL x 3/8" MPT	2.95
LFFT138	U1-8B	1/2" FL x 1/4" MPT	2.95
LFFT141	U1-8E	1/2" FL x 3/4" MPT	11.12
LFFT143	U1-10C	5/8" FL x 3/8" MPT	4.24
LFFT144	U1-10D	5/8" FL x 1/2" MPT	3.43
LFFT145	U1-10E	5/8" FL x 3/4" MPT	4.38
LFFT147	U1-12D	3/4" FL x 1/2" MPT	6.28
LFFT148	U1-12E	3/4" FL x 3/4" MPT	5.10

Other combinations available on request.

## UNIONS

Flare to flare and flare to flare reducing.



LFFT152	U2-4	1/4" FL	1.44
LFFT154	U2-6	3/8" FL	1.66
LFFT155	U2-8	1/2" FL	2.52
LFFT156	U2-10	5/8" FL	7.81
LFFT157	U2-12	3/4" FL	10.01
LFFT160	UR2-64	3/8" x 1/4" FL	2.52
LFFT161	UR2-65	3/8" x 5/16" FL	4.19
LFFT162	UR2-84	1/2" x 1/4" FL	4.19
LFFT163	UR2-86	1/2" x 3/8" FL	4.19
LFFT165	UR2-108	5/8" x 1/2" FL	4.21
LFFT167	UR2-1210	3/4" x 5/8" FL	8.33

Other combinations available on request.

**FEMALE CONNECTORS**

Flare x FPT.



**REDUCERS**

F. Flare to Flare.



**CONNECTORS**

F. Flare to F. Flare.



**SWIVEL-CONNECTOR**

F. Flare to F. Flare.



**FEMALE CONNECTORS**

F. Flare to Solder.



**ELBOWS**



**TEES**

Last size is branch.



CODE	PART NO.	SIZE	(EA) £ LIST EA
LFFT170	U3-4A	1/4" FL x 1/8" FPT	1.56
LFFT171	U3-4B	1/4" FL x 1/4" FPT	1.56
LFFT172	U3-4C	1/4" FL x 3/8" FPT	7.49
LFFT176	U3-6B	3/8" FL x 1/4" FPT	7.49
LFFT196	UR3-46	1/4" FFL x 3/8" FL	4.37
LFFT197	UR3-48	1/4" FFL x 1/2" FL	4.76
LFFT200	UR3-64	3/8" FFL x 1/4" FL	5.57
LFFT202	UR3-68	3/8" FFL x 1/2" FL	8.47
LFFT204	UR3-84	1/2" FFL x 1/4" FL	5.92
LFFT205	UR3-86	1/2" FFL x 3/8" FL	6.61
LFFT206	UR3-810	1/2" FFL x 5/8" FL	8.33
LFFT207	UR3-106	5/8" FFL x 3/8" FL	15.12
LFFT208	UR3-108	5/8" FFL x 1/2" FL	8.44
LFFT209	UR3-1012	5/8" FFL x 3/4" FL	10.48

Other combinations available on request.

LFFT210	U4-4	1/4" FFL	2.78
LFFT211	U4-6	3/8" FFL	4.08
LFFT212	U4-8	1/2" FFL	7.44
LFFT213	U4-10	5/8" FFL	14.12
LFFT215	US4-4	1/4" FFL SWIVEL	4.99
LFFT217	US4-6	3/8" FFL SWIVEL	5.77
LFFT218	US4-8	1/2" FFL SWIVEL	7.09
LFFT219	US4-10	5/8" FFL SWIVEL	7.68

LFFT227	US3-66	3/8" FL x 3/8" ODS	2.45
LFFT230	US3-88	1/2" FL x 1/2" ODS	5.57
LFFT236	US3-1010	5/8" FL x 5/8" ODS	8.27

LFFT245	E1-4A	1/4" FL x 1/8" MPT	4.93
LFFT246	E1-4B	1/4" FL x 1/4" MPT	7.22
LFFT252	E1-6B	3/8" FL x 1/4" MPT	4.88
LFFT256	E1-8C	1/2" FL x 3/8" MPT	5.70
LFFT261	E1-10E	5/8" FL x 3/4" MPT	10.10
LFFT268	E2-8	1/2" FL UNION	4.99

LFFT320	T1-4A	1/4" FL x 1/4" FL x 1/8" MPT	6.78
LFFT321	T1-4B	1/4" FL x 1/4" FL x 1/4" MPT	7.86
LFFT333	T2-4	1/4" FL	7.94
LFFT334	T2-6	3/8" FL	3.64
LFFT336	T2-8	1/2" FL	7.64

Other combinations available on request.

## FLARE PLUGS



## F. FLARE SEAL CAPS



## PIPE PLUGS (MPT)



CODE	PART NO.	SIZE	(EA) £ LIST EA
LFFT361	P2-4	PLUG 1/4" FL	0.74
LFFT363	P2-6	PLUG 3/8" FL	1.50
LFFT364	P2-8	PLUG 1/2" FL	2.34
LFFT365	P2-10	PLUG 5/8" FL	2.81
LFFT366	P2-12	PLUG 3/4" FL	7.27
LFFT368	N5-4	CAP NUT 1/4" FL	0.82
LFFT370	N5-6	CAP NUT 3/8" FL	1.19
LFFT371	N5-8	CAP NUT 1/2" FL	1.43
LFFT372	N5-10	CAP NUT 5/8" FL	1.58
LFFT373	N5-12	CAP NUT 3/4" FL	9.42
LFFT376	P3.A	PLUG 1/8" MPT	1.66
LFFT377	P3.B	PLUG 1/4" MPT	2.27
LFFT378	P3.C	PLUG 3/8" MPT	4.24

## FLARE BONNETS + GASKETS



LFFT390	B1-3	BONNET 3/16" FL	0.52
LFFT391	B1-4	BONNET 1/4" FL	0.56
LFFT393	B1-6	BONNET 3/8" FL	0.74
LFFT394	B1-8	BONNET 1/2" FL	0.74
LFFT395	B1-10	BONNET 5/8" FL	0.80
LFFT396	B1-12	BONNET 3/4" FL	1.03
LFFT401	B2-4	GASKET 1/4" FL	0.26
LFFT403	B2-6	GASKET 3/8" FL	0.48
LFFT404	B2-8	GASKET 1/2" FL	0.48
LFFT405	B2-10	GASKET 5/8" FL	0.48
LFFT406	B2-12	GASKET 3/4" FL	1.07

## ACCESS FITTINGS



CODE	PART NO.	DESCRIPTION	(EA) £ LIST EA
LFFT412	UV-4U	ACCESS x 3/8", 5/16", 1/4" ODS + 1/8" MPT	6.38
LFFT900	VAX-4	ACCESS x 1/4" EXT. ODS	1.50
LFFT426	VAX-5	ACCESS x 5/16" EXT. ODS	5.77
LFFT915	VAU-24	ACCESS x 1/4" ODS + 1/8" MPT	3.68
LFFT439	VU-4	ACCESS x 1/4" F.FL	3.68
LFFT421	VC-4	SPARE SEAL CAPS	0.72
LFFT455	VVC-1	SPARE VALVE CORE	0.72

Images for illustration purposes only.

**ACCESS TEES**



Images for illustration purposes only.

CODE	PART NO.	CONNECTIONS			(EA) £ LIST EA
		RUN	RUN	BRANCH	
LFFT440	VTR-24	ACCESS	1/8" MPT / 1/4" ODS	ACCESS	7.44
LFFT443	VTS-46	1/4" ODS	1/4" ODS	ACCESS	6.06
LFFT925	VST-44SW	ACCESS	1/4" F.Swivel	1/4" FL	11.66
LFFT448	VST-4	ACCESS	1/4" FL	1/4" F.Swivel	11.66

**TUBE CLAMPING SYSTEM**



CODE	FOR TUBE SIZE (O.D.)	BOX QTY	(HA, ZL) £ LIST EA
BVT025	1/4	50	1.44
BVT037	3/8	50	1.44
BVT050	1/2	50	1.44
BVT062	5/8	50	1.49
BVT075	3/4	25	1.65
BVT087	7/8	25	1.93
BVT112	1.1/8	25	2.32
BVT137	1.3/8	25	2.86
BVT162	1.5/8	20	4.38
BVT212	2.1/8	10	6.76
BVT262	2.5/8	10	7.63
BRAK740	SINGLE ALUMINIUM CHANNEL 3M		7.70

**WALL BRACKETS - HEAVY DUTY**



CODE	PART NO.	SIZE	MAX. LOAD	(HA) £ LIST EA
BRAK032	B49418	18" (455MM)	1,000 LBS (453 KG)	26.50
BRAK034	B49424	24" (610MM)	950 LBS (430 KG)	40.50
BRAK036	B49430	30" (760MM)	900 LBS (408 KG)	44.25
BRAK040	B49442	42" (1,065MM)	700 LBS (318 KG)	59.75

For pipe, condensing units etc. Sold singly.

**MOUNTING NUTS**



CODE	PART NO.	SUITABILITY	(HA) £ LIST EA
BRAK064	BMT-8	8MM THREAD	0.76
BRAK066	BMT-10	10MM THREAD	0.77
BRAK068	BMT-12	12MM THREAD	0.78

Slide into above wall brackets.

**ANTI-VIBRATION MOUNTS**



CODE	PART NO.	TYPE	LOADING	(HA) £ LIST EA
BRAK801	NVD-1A	MOUNT	11 TO 20 KG	10.36
BRAK902	CNP9	3" x 3" PAD	204 KG MAX	2.02
BRAK990	FF250S	RUBBER BLOCK	125 KG MAX	10.00
BRAK991	FF400S	RUBBER BLOCK	200 KG MAX	13.45
BRAK992	FF600S	RUBBER BLOCK	300 KG MAX	15.95
BRAK993	FF1000S	RUBBER BLOCK	500 KG MAX	34.45
BRAK994	FF250UNI	RUBBER BLOCK	125 KG MAX (25 KG PER INSERT)	10.00

For condensing units.

**THREADED ROD AND SET SCREWS**

BRAK950	THREADED ROD M10 – 1 METRE (NYLON)	3.30
BRAK960	COMBINED NUT AND WASHER M10	0.17
BRAK970	SET SCREWS – ZINC PLATED STEEL M8 x 50MM	0.25
BRAK975	SET SCREWS – ZINC PLATED STEEL M10 x 50MM	0.26

## SOLENOID VALVES



Bodies and coils supplied separately.

### NORMALLY CLOSED VALVES

CODE	MODEL NO.	CONNECTION SIZE	PORT SIZE (MM)	(RE) £ LIST EA
SPOR301	A3F1	1/4" FL	2.6	31.19
SPOR303	B6F1	3/8" FL	4.8	39.45
SPOR305	B9F2	3/8" FL	7.1	47.96
SPOR307	B10F2	1/2" FL	7.9	60.01
SPOR309	E3S120	1/4" EXT	2.6	31.19
SPOR311	E6S130	3/8" EXT	4.8	39.45
SPOR313	E9S230	3/8" EXT	7.1	47.96
SPOR315	E10S240	1/2" EXT	7.9	60.01
SPOR317	E14S250	5/8" EXT	11.1	64.71
SPOR319	E19S270	7/8" EXT	15.1	105.76
SPOR321	E25S290	1.1/8" EXT	19.8	155.55
SPOR324	E35S1110	1.3/8" EXT	25.4	249.27
SPOR325	E42S2130	1.5/8" EXT	33.3	381.29
SPOR327	E42S2170	2.1/8" EXT	33.3	393.51

SPOR301-311 use MKC – 1 coil; others use MKC-2.

### NORMALLY OPEN VALVES

SPOR329	OE9S230	3/8" EXT	7.1	86.08
SPOR331	OE10S240	1/2" EXT	7.9	94.70
SPOR333	OE14S250	5/8" EXT	11.1	104.17
SPOR335	OE19S270	7/8" EXT	15.1	149.68
SPOR337	OE25S290	1.1/8" EXT	19.8	203.71
SPOR339	OE34S2110	1.3/8" EXT	25.4	323.71
SPOR341	OE42S2130	1.5/8" EXT	33.3	470.78
SPOR343	OE42S2170	2.1/8" EXT	33.3	484.14

Use OMKC coils.

### SOLENOID COILS

SPOR451	MKC-1	220-240V AC	22.54
SPOR452	MKC-1	120V AC	22.54
SPOR454	MKC-1	24V AC	22.54
SPOR460	MKC-2	220-240V AC	24.19
SPOR461	MKC-2	120V AC	24.19
SPOR464	MKC-2	24V AC	24.19
SPOR470	OMKC-2	220-240V AC	24.19

### HOT GAS DEFROST VALVES

CODE	MODEL NO.	DISCHARGE	SUCTION/EVAP	(RE) £ LIST EA
SPOR485	10G79B	7/8" ODF	1.1/8" ODF	313.86
SPOR487	10G711B	7/8" ODF	1.3/8" ODF	325.96
SPOR489	10G711C	7/8" ODF	1.3/8" ODF	345.71

Use MKC-1 coil for all the above valves.



**SOLENOID VALVES (SCEM)**



Prices for body only.  
Ruby seals.

CODE	PART NO.	CONNECTION SIZE	PORT SIZE (MM)	(AA) £ LIST EA
JPAR095	V3F2	1/4" FL	2.5mm	24.49
JPAR100	V4F2	1/4" FL	3mm	24.49
JPAR105	V4F3	3/8" FL	3mm	24.49
JPAR110	V10F3	3/8" FL	8mm	42.37
JPAR115	V13F4	1/2" FL	10mm	44.55
JPAR120	V19F5	5/8" FL	15mm	57.96
JPAR130	V4S2	1/4" EXT	3mm	28.94
JPAR135	V10S3	3/8" EXT	8mm	42.37
JPAR140	V13S4	1/2" EXT	10mm	44.55
JPAR145	V19S5	5/8" EXT	15mm	66.86
JPAR150	V23S6	3/4" EXT	18mm	95.84
JPAR155	V23S7	7/8" EXT	18mm	100.29
JPAR160	V23S9	1.1/8" EXT	18mm	129.23

**COILS**

DIN style, complete with PG9 connector.

CODE	MODEL NO.	VOLTAGE	(AA) £ LIST EA
JPAR650	RT14	240V AC	13.33
JPAR652	RT14	110V AC	13.33
JPAR654	RT14	24V AC	13.33
JPAR540	CD21	12V DC	27.73
JPAR541	CD21	24V DC	27.73

**SOLENOID VALVES**



Prices for body only.  
Terminal box coil illustrated.

CODE	PART NO.	CONNECTION SIZE	PORT SIZE (MM)	(RQ) £ LIST EA
DAN604	EVR3	1/4" FL	3.3	28.26
DAN606	EVR3	3/8" FL	3.3	28.26
DAN608	EVR3	1/4" EXT	3.3	27.40
DAN610	EVR3	3/8" EXT	3.3	27.40
DAN612	EVR6	3/8" FL	6.0	37.20
DAN614	EVR6	1/2" FL	6.0	37.43
DAN616	EVR6	3/8" EXT	6.0	36.08
DAN618	EVR6	1/2" EXT	6.0	36.08
DAN620	EVR10	1/2" FL	10.0	53.28
DAN622	EVR10	5/8" FL	10.0	53.28
DAN624	EVR10	1/2" EXT	10.0	51.77
DAN626	EVR10	5/8" EXT	10.0	51.77
DAN628	EVR15	5/8" FL	14.0	89.44
DAN630	EVR15	5/8" EXT	14.0	86.88
DAN632	EVR15	7/8" EXT	14.0	86.88
DAN634	EVR20	1.1/8" EXT	22.0	136.75

**COILS**

CODE	DESCRIPTION	VOLTAGE	(RQ) £ LIST EA
DAN680	COIL 10W TERMINAL BOX	230V AC	19.95
DAN682	COIL 10W 1M CABLE	230V AC	19.95
DAN684	COIL 10W 1M CABLE	24V AC	19.95

**SOLENOID VALVES**



Prices for body only.

CODE	PART NO.	CONNECTION SIZE	PORT SIZE (MM)	(AA) £ LIST EA
SANH010	MDF-A03-2L001	1/4" FL	2mm	12.40
SANH012	MDF-A03-3L001	1/4" FL	3mm	12.40
SANH014	MDF-A03-6L001	3/8" FL	6mm	17.00
SANH016	MDF-A03-10L	1/2" FL	10mm	26.80
SANH018	MDF-A03-15L001	5/8" FL	15mm	32.20
SANH020	MDF-A03-2H001	1/4" EXT	2mm	12.40
SANH022	MDF-A03-3H001	1/4" EXT	3mm	12.40
SANH024	MDF-A03-6H001	3/8" EXT	6mm	17.00
SANH026	MDF-A03-10H001	1/2" EXT	10mm	26.80
SANH028	MDF-A03-15H001	5/8" EXT	15mm	32.20
SANH030	MDF-A03-20H001	7/8" EXT	20mm	81.15
SANH032	MDF-A03-20H003	1.1/8" EXT	20mm	88.45

**COILS**

With DIN style connector.

CODE	DESCRIPTION	VOLTAGE	(AA) £ LIST EA
SANH040	MDF6003	220-240 50/60HZ AC	12.50
SANH042	MDF6001	24V 50/60 AC	12.50

**SOLENOID VALVES**



SEV prices include 240 volt coil.

NEV prices for body only.

CODE	PART NO.	CONNECTION	(KD) £ LIST EA
PSAG808	SEV-502BXF	1/4" FL	28.50
PSAG809	SEV-603BXF	3/8" FL	29.00

CODE	PART NO.	DESCRIPTION	(KD) £ LIST EA
PSAG901	NEV-202DXF	1/4" ODS ANGLE BODY	10.18
PSAG902	NEV-603DXF	5/16" ODS ANGLE BODY	16.20
PSAG910	NEV-MOAJ503C1	240 VOLT COIL, LEAD 600M	6.76
PSAG911	NEV-MOAE500C1	115 VOLT COIL, LEAD 600M	8.10
PSAG914	NEV-MOAJ502B1	240 VOLT COIL, LEAD 1M	7.38

**4 WAY REVERSING VALVES**



Suitable for R410A, R407C, R134a, R404A, R22.

Other voltages on request.

CODE	MODEL	NOMINAL CAPACITY (R410A)	(BI) £ LIST EA
PSAG710	STF-0101G	4.2 KW BODY	19.56
PSAG715	STF-0201G	7.9 KW BODY	21.54
PSAG720	STF-0301G	9.6 KW BODY	24.22
PSAG725	STF-0401G	17.6 KW BODY	46.55
PSAG730	STF-0712G	29.9 KW BODY	90.02
PSAG735	STF-1511G	33.2 KW BODY	152.58
PSAG740	STF-2011G	42.5 KW BODY	190.71
PSAG745	STF-2501G	64.2 KW BODY	322.75
PSAG750	STF-3001	90.7 KW BODY	550.16
PSAG755	STF-4001	126 KW BODY	782.44
PSAG760	STF-5001	158 KW BODY	1,093.29
PSAG765	VHV-6001	242 KW BODY	2,207.60
PSAG780	STF-01AJ504F1 240V	240 VOLT COIL	7.79
PSAG785	STF-01AB500A1 24V	24 VOLT COIL	9.25

For valve selection please contact our Engineering Department

**WATER REGULATING VALVES**



Pressure actuated.

CODE	PART NO.	CONNECTION SIZE	TYPE	(BI) £ LIST EA
QSAG440	AWR-1203	3/8" FPT	2 WAY	63.30
QSAG441	AWR-1504	1/2" FPT	2 WAY	65.00
QSAG442	AWR-2006	3/4" FPT	2 WAY	74.97
QSAG443	AWR-2510	1" FPT	2 WAY	133.19
QSAG444	AWR-3212	1.1/4" FPT	2 WAY	175.48
QSAG460	SWR-1203	3/8" FPT	3 WAY	146.36
QSAG461	SWR-1504	1/2" FPT	3 WAY	155.57
QSAG462	SWR-2006	3/4" FPT	3 WAY	168.13
QSAG463	SWR-2510	1" FPT	3 WAY	253.16
QSAG464	SWR-3212	1.1/4" FPT	3 WAY	296.66

For valve comparisons see page 116.

**PRESSURE REGULATORS & HEAD PRESSURE CONTROL VALVES**



ORIT-10

**CRANKCASE PRESSURE REGULATORS**

CODE	VALVE TYPE	RANGE (PSIG)	CONNECTION SIZE	(RE) £ LIST EA
SPOR620	CROT-6	0/60	5/8" FL	91.53
SPOR622	CROT-6	0/60	5/8" ODF	92.56
SPOR624	CROT-6	0/60	7/8" ODF	92.56
SPOR626	CROT-6	0/60	1.1/8" ODF	100.09
SPOR628	CROT-6	30/110	5/8" FL	94.31
SPOR630	CROT-6	30/110	5/8" ODF	107.30
SPOR632	CROT-6	30/110	7/8" ODF	95.73
SPOR634	CROT-6	30/110	1.1/8" ODF	96.61
SPOR636	CROT-10	0/60	7/8" ODF	130.66
SPOR638	CROT-10	0/60	1.1/8" ODF	130.66
SPOR640	CROT-10	0/60	1.3/8" ODF	137.63
SPOR642	CROT-10	30/110	7/8" ODF	133.01
SPOR644	CROT-10	30/110	1.1/8" ODF	133.35
SPOR646	CROT-10	30/110	1.3/8" ODF	140.46

**EVAPORATOR PRESSURE REGULATORS**

SPOR680	ORIT-6	0/50	5/8" ODF	90.56
SPOR681	ORIT-6	0/50	7/8" ODF	90.56
SPOR682	ORIT-6	30/110	5/8" ODF	90.56
SPOR683	ORIT-6	30/110	7/8" ODF	90.56
SPOR684	ORIT-10	0/50	7/8" ODF	147.16
SPOR685	ORIT-10	0/50	1.1/8" ODF	147.16
SPOR686	ORIT-10	0/50	1.3/8" ODF	152.81
SPOR687	ORIT-10	30/110	1.3/8" ODF	152.81

**HEAD PRESSURE CONTROL VALVES**

SPOR691	ORI-6-65/225	65/225	5/8" ODF	98.87
SPOR692	ORI-6-65/225	65/225	7/8" ODF	103.85
SPOR693	ORI-6-65/225	65/225	1.1/8" ODF	103.85
SPOR695	ORI-10-65/225	65/225	1.1/8" ODF	160.47
SPOR696	ORI-10-65/225	65/225	1.3/8" ODF	160.47

CODE	VALVE TYPE	OPERATION	CONNECTION SIZE	(RE) £ LIST EA
SPOR677	ORD-4-20	BYPASS	5/8" ODF	43.20

To be used in conjunction with ORI head press control valves.

**FLOCON SOLENOID VALVES**



Pilot operated, low pressure drop. 240v 50Hz coil included.

CODE	TYPE	SIZE		FLOW COEF		(BC) £ LIST EA
		PORT	CONNECTION	Cv	Kv	
RFL0852	S81	5/8"	7/8"	3.3	2.82	339.90
RFL0858	S81	7/8"	1.1/8"	5.1	4.37	339.90
RFL0864	S81	1.1/8"	1.3/8"	8.1	6.93	357.41
RFL0870	S81	1.3/8"	1.5/8"	11.3	9.67	406.85
RFL0878	S81	1.3/8"	2.1/8"	11.3	9.67	406.85
RFL0882	S82	1.5/8"	2.1/8"	18.0	15.39	694.22
RFL0886	S82	2.1/8"	2.1/8"	18.0	15.39	694.22
RFL0888	S82	2.1/8"	2.5/8"	27.0	23.08	742.63
RFL0890	S82	2.5/8"	2.5/8"	36.0	30.77	742.63

All connections ODS. Other combinations of port/connection available. See also our Industrial Price List for steel versions of the S8. Other coil voltages on request.

## FLOCON PRESSURE REGULATORS



**Type A8**

For Suction, Discharge and Liquid Lines.

Opens when inlet pressure rises above set point.

CODE	TYPE	SIZE		FLOW COEF		(BC) £ LIST EA
		PORT	CONNECTION	Cv	Kv	
RFL0300	A8A	3/8"	5/8"	1.5	1.28	218.36
RFL0304	A8A	3/8"	1.1/8"	1.5	1.28	231.75
RFL0306	A8A	5/8"	5/8"	3.3	2.82	218.36
RFL0310	A8A	5/8"	1.1/8"	3.3	2.82	231.75
RFL0314	A8A	7/8"	7/8"	5.1	4.37	231.75
RFL0316	A8A	7/8"	1.1/8"	5.1	4.37	231.75
RFL0342	A81	1.1/8"	1.1/8"	8.1	6.93	301.79
RFL0344	A81	1.1/8"	1.3/8"	8.1	6.93	334.75
RFL0350	A81	1.3/8"	1.1/8"	11.3	9.67	301.79
RFL0352	A81	1.3/8"	1.3/8"	11.3	9.67	334.75
RFL0354	A81	1.3/8"	1.5/8"	11.3	9.67	357.41
RFL0356	A81	1.3/8"	2.1/8"	11.3	9.67	393.46
RFL0900	A82	1.5/8"	1.5/8"	18.0	15.39	490.28
RFL0904	A82	2.1/8"	2.1/8"	27.0	23.08	589.16
RFL0908	A82	2.5/8"	2.5/8"	36.0	30.77	634.48

Standard Range A/D, 250mm Hg to 28 bar (109 Hg to 400 psig). Regulates inlet pressure. All connections ODS. Other combinations of port/connection also available. See also our Industrial Price List for steel versions of the A8.

## FLOCON COMPACT SUCTION PRESSURE REGULATORS TYPE 'PORT'

RSPT302	PORT 03-07	3/8"	7/8"	1.5	1.28	194.67
RSPT304	PORT 03-09	3/8"	1.1/8"	1.5	1.28	194.67
RSPT326	PORT 03-11	3/8"	1.3/8"	1.5	1.28	233.81
RSPT308	PORT 05-07	5/8"	7/8"	3.3	2.82	194.67
RSPT310	PORT 05-09	5/8"	1.1/8"	3.3	2.82	194.67
RSPT330	PORT 05-13	5/8"	1.5/8"	3.3	2.82	268.83
RSPT314	PORT 07-07	7/8"	7/8"	5.1	4.37	194.67
RSPT316	PORT 07-09	7/8"	1.1/8"	5.1	4.37	194.67
RSPT336	PORT 07-11	7/8"	1.3/8"	5.1	4.37	233.81
RSPT338	PORT 07-13	7/8"	1.5/8"	5.1	4.37	268.83
RSPT340	PORT 09-07	1.1/8"	7/8"	8.1	6.93	194.67
RSPT342	PORT 09-09	1.1/8"	1.1/8"	8.1	6.93	194.67
RSPT344	PORT 09-11	1.1/8"	1.3/8"	8.1	6.93	233.81
RSPT346	PORT 09-13	1.1/8"	1.5/8"	8.1	6.93	268.83
RSPT348	PORT 09-17	1.1/8"	2.1/8"	8.1	6.93	268.83
RSPT350	PORT 11-09	1.3/8"	1.1/8"	11.3	9.67	194.67
RSPT352	PORT 11-11	1.3/8"	1.3/8"	11.3	9.67	233.81
RSPT354	PORT 11-13	1.3/8"	1.5/8"	11.3	9.67	268.83
RSPT356	PORT 11-17	1.3/8"	2.1/8"	11.3	9.67	268.83
RSPT900	PORT 13-13	1.5/8"	1.5/8"	18.0	15.39	388.31
RSPT901	PORT 13-17	1.5/8"	2.1/8"	18.0	15.39	456.56
RSPT902	PORT 13-21	1.5/8"	2.5/8"	18.0	15.39	501.61
RSPT903	PORT 17-13	2.1/8"	1.5/8"	27.0	23.08	388.31
RSPT904	PORT 17-17	2.1/8"	2.1/8"	27.0	23.08	456.56
RSPT905	PORT 17-21	2.1/8"	2.5/8"	27.0	23.08	501.61
RSPT907	PORT 21-17	2.5/8"	2.1/8"	36.0	30.77	456.56
RSPT908	PORT 21-21	2.5/8"	2.5/8"	36.0	30.77	501.61

Range "A" - 250mm Hg to 8 bar (109 to 120 psig). Regulates inlet pressure. Other combinations available. PORT valves are also available with electric shut-off feature (S)PORT and in non-ferrous construction PORT2 and (S)PORT2.

**FLOCON WIDE-RANGE PRESSURE REGULATORS**



**Type A8S**

With Electric Shut-Off Feature.  
“S” Feature – Regulating when energized; closed when de-energized.

Standard Voltage:  
**240 Volts, 50 Hertz. DIN coil.**

CODE	TYPE	SIZE		FLOW COEF		(BC) £ LIST EA
		PORT	CONNECTION	Cv	Kv	
RFL0384	A8AS	3/8"	1.1/8"	1.5	1.28	380.07
RFL0386	A8AS	5/8"	5/8"	3.3	2.82	366.68
RFL0388	A8AS	5/8"	7/8"	3.3	2.82	380.07
RFL0390	A8AS	5/8"	1.1/8"	3.3	2.82	380.07
RFL0394	A8AS	7/8"	7/8"	5.1	4.37	380.07
RFL0396	A8AS	7/8"	1.1/8"	5.1	4.37	380.07
RFL0422	A81S	1.1/8"	1.1/8"	8.1	6.93	448.05
RFL0424	A81S	1.1/8"	1.3/8"	8.1	6.93	484.10
RFL0432	A81S	1.3/8"	1.3/8"	11.3	9.67	484.10
RFL0434	A81S	1.3/8"	1.5/8"	11.3	9.67	505.73
RFL0909	A82S	1.5/8"	1.5/8"	18.0	15.39	601.52
RFL0913	A82S	2.1/8"	2.1/8"	27.0	23.08	701.43
RFL0917	A82S	2.5/8"	2.5/8"	36.0	30.77	787.95

Standard Range A/D, 250mm Hg to 28 bar (10" Hg to 400 psig). Regulates inlet pressure. All connections ODS. Other combinations of port/connection also available. See our Industrial Price List for Steel versions.

**FLOCON WIDE-RANGE PRESSURE REGULATORS**



**Type A8B**

With Wide Opening Feature.  
“B” Feature – Wide open when energized; regulating when de-energized.

Standard Voltage:  
**240 Volts, 50 Hertz. DIN coil.**

RFL0468	A8AB	5/8"	7/8"	3.3	2.82	419.21
RFL0470	A8AB	5/8"	1.1/8"	3.3	2.82	419.21
RFL0474	A8AB	7/8"	7/8"	5.1	4.37	419.21
RFL0476	A8AB	7/8"	1.1/8"	5.1	4.37	419.21
RFL0502	A81B	1.1/8"	1.1/8"	8.1	6.93	489.25
RFL0512	A81B	1.3/8"	1.3/8"	1.3	9.67	523.24
RFL0514	A81B	1.3/8"	1.5/8"	11.3	9.67	543.84
RFL0918	A82B	1.5/8"	1.5/8"	18.0	15.39	724.09
RFL0922	A82B	2.1/8"	2.1/8"	27.0	23.08	826.06
RFL0926	A82B	2.5/8"	2.5/8"	36.0	30.77	872.41

Standard Range A/D, 250mm Hg to 28 bar (10" Hg to 400 psig). Regulates inlet pressure. All connections ODS. Other combinations of port/connection also available.

**FLOCON DIFFERENTIAL PRESSURE REGULATORS**



**Type A8L**

“L” Feature – Maintains a set pressure difference between inlet and outlet.

RFL0540	A8AL	3/8"	5/8"	1.5	1.28	280.16
RFL0546	A8AL	5/8"	5/8"	3.3	2.82	280.16
RFL0554	A8AL	7/8"	7/8"	5.1	4.37	292.52
RFL0556	A8AL	7/8"	1.1/8"	5.1	4.37	292.52
RFL0582	A81L	1.1/8"	1.1/8"	8.1	6.93	362.56
RFL0590	A81L	1.3/8"	1.1/8"	11.3	9.67	362.56
RFL0592	A81L	1.3/8"	1.3/8"	11.3	9.67	395.52
RFL0594	A81L	1.3/8"	1.5/8"	11.3	9.67	418.18
RFL0945	A82L	1.5/8"	1.5/8"	18.0	15.39	553.11
RFL0949	A82L	2.1/8"	2.1/8"	27.0	23.08	650.96
RFL0953	A82L	2.5/8"	2.5/8"	36.0	30.77	695.25

Standard Range “A” –0 to 6.3 bar (0 to 90 psig). All connections ODS. Other combinations of port/connection also available.

## DIFFERENTIAL PRESSURE REGULATOR



### Type A8BL

With Wide Opening Feature.  
 "BL" Feature – Wide open when energized; regulating pressure differential when de-energized.  
 Standard Voltage:  
**240 Volts, 50 Hertz. DIN coil.**

CODE	TYPE	SIZE		FLOW COEF		(BC) £ LIST EA
		PORT	CONNECTION	Cv	Kv	
RFL0626	A8ABL	5/8"	5/8"	3.3	2.82	479.98
RFL0628	A8ABL	5/8"	7/8"	3.3	2.82	479.98
RFL0630	A8ABL	5/8"	1.1/8"	3.3	2.82	479.98
RFL0634	A8ABL	7/8"	7/8"	5.1	4.37	479.98
RFL0636	A8ABL	7/8"	1.1/8"	5.1	4.37	479.98
RFL0662	A81BL	1.1/8"	1.1/8"	8.1	6.93	542.81
RFL0664	A81BL	1.1/8"	1.3/8"	8.1	6.93	576.80
RFL0670	A81BL	1.3/8"	1.1/8"	11.3	9.67	542.81
RFL0672	A81BL	1.3/8"	1.3/8"	11.3	9.67	576.80
RFL0674	A81BL	1.3/8"	1.5/8"	11.3	9.67	598.43
RFL0676	A81BL	1.3/8"	2.1/8"	11.3	9.67	638.60
RFL0954	A82BL	1.5/8"	1.5/8"	18.0	15.39	760.14
RFL0958	A82BL	2.1/8"	2.1/8"	27.0	23.08	859.02
RFL0962	A82BL	2.5/8"	2.5/8"	36.0	30.77	903.31

Standard Range "A" –0 to 6.3 bar (0 to 90 psig). All connections ODS. Other combinations of port/connection also available.

## FLOCON CRANKCASE (OUTLET) PRESSURE REGULATORS

### Type A80E

"O" Feature – Regulates outlet pressure.

RFL0706	A8AOE	5/8"	5/8"	3.3	2.82	233.98
RFL0714	A8AOE	7/8"	7/8"	5.1	4.37	246.17
RFL0742	A810E	1.1/8"	1.1/8"	8.1	6.93	328.57
RFL0750	A810E	1.3/8"	1.1/8"	11.3	9.67	328.57
RFL0752	A810E	1.3/8"	1.3/8"	11.3	9.67	339.90
RFL0754	A810E	1.3/8"	1.5/8"	11.3	9.67	364.62
RFL0756	A810E	1.3/8"	2.1/8"	11.3	9.67	402.73
RFL0927	A820E	1.5/8"	1.5/8"	18.0	15.39	565.47
RFL0931	A820E	2.1/8"	2.1/8"	27.0	23.08	665.38
RFL0932	A820E	2.1/8"	2.5/8"	27.0	23.08	709.67

A8 standard range A/D-250mm Hg to 28 bar (10"Hg to 400psig)  
 A82 standard range A-250mm Hg to 6.3 bar (10"Hg to 90psig)  
 Regulates outlet pressure. All connections ODS.  
 Other combinations of port/connection also available.

## FLOCON HOT GAS BYPASS REGULATORS

### Type A9

Opens when outlet pressure falls below set point. "E" is externally equalised.

RFL0208	A9	3/8"	5/8"	0.42	0.36	192.61
RFL0219	A9E	3/8"	5/8"	0.42	0.36	192.61
RFL0210	A9	5/8"	5/8"	1.40	1.20	192.61
RFL0220	A9E	5/8"	5/8"	1.40	1.20	192.61
RFL0214	A9	7/8"	7/8"	2.67	2.30	259.56
RFL0224	A9E	7/8"	7/8"	2.67	2.30	259.56
RFL0216	A9	1.1/8"	1.1/8"	3.58	3.10	334.75
RFL0226	A9E	1.1/8"	1.1/8"	3.58	3.10	334.75

Standard Range 'A' –250mm Hg to 8 bar (10" to 120 psig). Optional range B 5.6 to 1.5 bar (80 to 220 psig). Codes above show range 'A' valve stock codes.

## HOT GAS BYPASS REGULATORS



### Type A9S

With Electric Shut-off.  
 "S" Feature – Regulating when energised; closed when de-energised. "SE" – externally equalised.

Standard Voltage:  
**240 Volts, 50 Hertz.**

RFL0229	A9S	3/8"	5/8"	0.42	0.36	341.96
RFL0237	A9SE	3/8"	5/8"	0.42	0.36	341.96
RFL0230	A9S	5/8"	5/8"	1.40	1.20	341.96
RFL0238	A9SE	5/8"	5/8"	1.40	1.20	341.96
RFL0234	A9S	7/8"	7/8"	2.67	2.30	407.88
RFL0242	A9SE	7/8"	7/8"	2.67	2.30	407.88
RFL0236	A9S	1.1/8"	1.1/8"	3.58	3.10	484.10
RFL0244	A9SE	1.1/8"	1.1/8"	3.58	3.10	484.10

Standard Range "A" –250mm Hg to 8 bar (10" to 120 psig). Optional range B 5.6 to 1.5 bar (80 to 220 psig). For larger valves see our Industrial Price List.

**WIDE-RANGE  
THERMOSTATIC EXPANSION  
VALVES**



Parkers' Balanced Port design allows each valve to operate over a wide capacity band. Evaporator temperatures from -40 to +10°C.

CODE	TYPE	REFRIGERANT	CAPACITY RANGE (TONS)	EQUALISER	INLET/OUTLET CONNECTIONS	MOP (PSI)	(AA) £ LIST EA
IPAR820	CE-A-JW	R134a	1/4 - 1	EXTERNAL	3/8" x 1/2" FL		61.37
IPAR823	CE-C-JW	R134a	1.1/2 - 3	EXTERNAL	3/8" x 1/2" FL		63.15
IPAR850	C-A-SX35	R404A	1/4 - 1	INTERNAL	3/8" x 1/2" FL	35	59.64
IPAR851	C-A-SW	R404A	1/4 - 1	INTERNAL	3/8" x 1/2" FL		57.87
IPAR855	CE-A-SX35	R404A	1/4 - 1	EXTERNAL	3/8" x 1/2" FL	35	63.15
IPAR856	CE-A-SW	R404A	1/4 - 1	EXTERNAL	3/8" x 1/2" FL		61.37
IPAR862	CE-B-SW	R404A	1 - 2	EXTERNAL	3/8" x 1/2" FL		63.15
IPAR860	CE-C-SX35	R404A	1.1/2 - 4	EXTERNAL	3/8" x 1/2" FL	35	64.88
IPAR861	CE-C-SW	R404A	1.1/2 - 4	EXTERNAL	3/8" x 1/2" FL		63.15
IPAR620	C-A-VW	R407c/R22	1/2 - 1.1/2	INTERNAL	3/8" x 1/2" FL		57.87
IPAR624	C-C-VW	R407c/R22	3.1/2 - 5	INTERNAL	3/8" x 1/2" FL		59.64
IPAR630	CE-A-VW	R407c/R22	1/2 - 1.1/2	EXTERNAL	3/8" x 1/2" FL		61.37
IPAR634	CE-C-VW	R407c/R22	3.1/2 - 5	EXTERNAL	3/8" x 1/2" FL		63.15
IPAR635	CE-C-VX100	R407c/R22	3.1/2 - 5	EXTERNAL	3/8" x 1/2" FL	100	64.88

**CONSTANT PRESSURE  
VALVES**

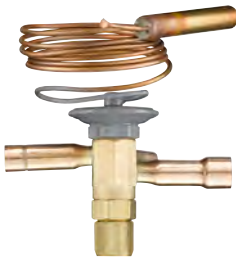


CODE	MODEL	CAPACITY (NOMINAL TONS)	CONNECTIONS	(AA) £ LIST EA
IPAR050	A2	1 - 2	1/4" x 1/2" FL	38.49
IPAR070	AS	1/4" - 1	1/4" x 3/8" ODS	34.01

\*Constant pressure expansion valves are not refrigerant specific. Capacities quoted are for R404A, capacities for other refrigerants will vary.

## EXPANSION VALVES - BALANCED PORT

## PARKER R SERIES, ADJUSTABLE SUPERHEAT, SOLDER CONNECTION, 1.5M CAPILLARY BALANCED PORT DESIGN

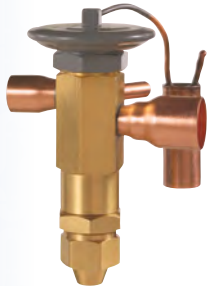


CODE	MODEL	REFRIGERANT	CAPACITY RANGE		EQUALIZER	MOP (PSI)	CONNECTIONS	(RE) £ LIST EA
			(TONS)	(KW)				
SPEV005	ERSE-1-C	R404A	1	3.5	EXTERNAL	-	3/8" X 1/2"	73.30
SPEV010	ERSE-1-ZP	R404A	1	3.5	EXTERNAL	35	3/8" X 1/2"	73.30
SPEV015	ERSE-1.1/2-C	R404A	1.1/2	5.3	EXTERNAL	-	3/8" X 1/2"	73.30
SPEV020	ERSE-1.1/2-ZP	R404A	1.1/2	5.3	EXTERNAL	35	3/8" X 1/2"	73.30
SPEV025	ERSE-2-C	R404A	2	7.0	EXTERNAL	-	3/8" X 1/2"	73.30
SPEV030	ERSE-2-ZP	R404A	2	7.0	EXTERNAL	35	3/8" X 1/2"	73.30
SPEV035	ERSE-3-C	R404A	3	11.0	EXTERNAL	-	1/2" X 5/8"	73.30
SPEV040	ERSE-3-ZP	R404A	3	11.0	EXTERNAL	35	1/2" X 5/8"	73.30
SPEV045	ERSE-4-C	R404A	4	14.0	EXTERNAL	-	1/2" X 7/8"	73.30
SPEV050	ERSE-4-ZP	R404A	4	14.0	EXTERNAL	35	1/2" X 7/8"	73.30
SPEV055	ERSE-6-C	R404A	6	21.1	EXTERNAL	-	5/8" X 7/8"	73.30
SPEV060	ERSE-6-ZP	R404A	6	21.1	EXTERNAL	35	5/8" X 7/8"	73.30
SPEV065	ERJE-1-C	R134A	1	3.5	EXTERNAL	-	3/8" X 1/2"	73.30
SPEV070	ERJE-1.1/2-C	R134A	1.1/2	5.3	EXTERNAL	-	3/8" X 1/2"	73.30
SPEV075	ERJE-2-C	R134A	2	7.0	EXTERNAL	-	3/8" X 1/2"	73.30
SPEV080	ERJE-3-C	R134A	3	11.0	EXTERNAL	-	3/8" X 1/2"	73.30
SPEV085	ERJE-4-CP60	R134A	4	14.0	EXTERNAL	60	1/2" X 5/8"	73.30
SPEV090	ERJE-5-CP60	R134A	5	17.6	EXTERNAL	60	5/8" X 7/8"	73.30
SPEV100	ERZE-1-CP180	R410A	1	3.5	EXTERNAL	180	3/8" X 1/2"	73.30
SPEV102	ERZE-1-GA	R410A	1	3.5	EXTERNAL	-	3/8" X 1/2"	73.30
SPEV105	ERZE-1.1/2-CP180	R410A	1.1/2	5.3	EXTERNAL	180	3/8" X 1/2"	73.30
SPEV107	ERZE-1.1/2-GA	R410A	1.1/2	5.3	EXTERNAL	-	3/8" X 1/2"	73.30
SPEV110	ERZE-2-CP180	R410A	2	7.0	EXTERNAL	180	3/8" X 1/2"	73.30
SPEV112	ERZE-2-GA	R410A	2	7.0	EXTERNAL	-	3/8" X 1/2"	73.30
SPEV115	ERZE-3-CP180	R410A	3	11.0	EXTERNAL	180	3/8" X 1/2"	73.30
SPEV117	ERZE-3-GA	R410A	3	11.0	EXTERNAL	-	3/8" X 1/2"	73.30
SPEV120	ERZE-4-CP180	R410A	4	14.0	EXTERNAL	180	3/8" X 1/2"	73.30
SPEV122	ERZE-4-GA	R410A	4	14.0	EXTERNAL	-	3/8" X 1/2"	73.30
SPEV125	ERZE-5-CP180	R410A	5	17.6	EXTERNAL	180	3/8" X 1/2"	73.30
SPEV127	ERZE-5-GA	R410A	5	17.6	EXTERNAL	-	3/8" X 1/2"	73.30
SPEV130	ERZE-6-CP180	R410A	6	21.1	EXTERNAL	180	1/2" X 5/8"	73.30
SPEV132	ERZE-6-GA	R410A	6	21.1	EXTERNAL	-	1/2" X 5/8"	73.30
SPEV135	ERZE-8-CP180	R410A	8	28.0	EXTERNAL	180	1/2" X 7/8"	73.30
SPEV137	ERZE-8-GA	R410A	8	28.0	EXTERNAL	-	1/2" X 7/8"	73.30
SPEV140	ERZE-8-CP180	R410A	8	28.0	EXTERNAL	180	5/8" X 7/8"	73.30
SPEV142	ERZE-8-GA	R410A	8	28.0	EXTERNAL	-	5/8" X 7/8"	73.30
SPEV145	ERZE-12.1/2-CP180	R410A	12.1/2	44.0	EXTERNAL	180	5/8" X 7/8"	92.45
SPEV147	ERZE-12.1/2-GA	R410A	12.1/2	44.0	EXTERNAL	-	5/8" X 7/8"	92.45
SPEV150	ERZE-12.1/2-CP180	R410A	12.1/2	44.0	EXTERNAL	180	5/8" X 1.1/8"	92.45
SPEV152	ERZE-12.1/2-GA	R410A	12.1/2	44.0	EXTERNAL	-	5/8" X 1.1/8"	92.45
SPEV155	ERZE-15-CP180	R410A	15	53.0	EXTERNAL	180	5/8" X 7/8"	92.45
SPEV157	ERSE-15-GA	R410A	15	53.0	EXTERNAL	-	5/8" X 7/8"	92.45
SPEV160	ERZE-15-CP180	R410A	15	53.0	EXTERNAL	180	5/8" X 1.1/8"	92.45
SPEV162	ERZE-15-GA	R410A	15	53.0	EXTERNAL	-	5/8" X 1.1/8"	92.45

GA charge is an anti-hunting charge for air conditioning applications.



**EXPANSION VALVES  
- SOLDER CONNECTIONS**



General purpose RAC valve with fixed inlet strainer.

**PARKER S SERIES, ADJUSTABLE SUPERHEAT, SOLDER CONNECTION, 1.5M CAPILLARY**

CODE	MODEL	REFRIGERANT	CAPACITY RANGE		EQUALIZER	MOP (PSI)	CONNECTIONS	(RE) £ LIST EA
			(TONS)	(KW)				
SPTV330	SJE-2	R134A	2	7.03	EXTERNAL		1/2" X 5/8" ODS	86.91
SPTV332	SJE-2.1/2	R134A	2.1/2	8.79	EXTERNAL		1/2" X 7/8" ODS	86.91
SPTV334	SJE-3	R134A	3	10.60	EXTERNAL		1/2" X 7/8" ODS	86.91
SPTV336	SJE-5	R134A	5	17.60	EXTERNAL		5/8" X 7/8" ODS	86.91
SPTV338	SJE-6	R134A	6	21.10	EXTERNAL		5/8" X 7/8" ODS	86.91
SPTV340	SJE-10	R134A	10	35.20	EXTERNAL		7/8" X 1.1/8" ODS	92.82
SPTV342	SNE-2	R407C	2	7.03	EXTERNAL		1/2" X 5/8" ODS	86.91
SPTV344	SNE-3	R407C	3	10.60	EXTERNAL		1/2" X 5/8" ODS	86.91
SPTV346	SNE-4	R407C	4	14.10	EXTERNAL		1/2" X 7/8" ODS	86.91
SPTV348	SNE-5	R407C	5	17.60	EXTERNAL		1/2" X 7/8" ODS	86.91
SPTV350	SNE-8	R407C	8	28.10	EXTERNAL		5/8" X 7/8" ODS	86.91
SPTV352	SNE-10	R407C	10	35.20	EXTERNAL		5/8" X 7/8" ODS	86.91
SPTV354	SNE-15	R407C	15	52.80	EXTERNAL		7/8" X 1.1/8" ODS	92.82
SPTV356	SSE-2	R404A	2	7.03	EXTERNAL		1/2" X 5/8" ODS	86.91
SPTV358	SSE-2-ZP	R404A	2	7.03	EXTERNAL	35	1/2" X 5/8" ODS	86.91
SPTV360	SSE-3	R404A	3	10.60	EXTERNAL		1/2" X 7/8" ODS	86.91
SPTV362	SSE-3-ZP	R404A	3	10.60	EXTERNAL	35	1/2" X 7/8" ODS	86.91
SPTV364	SSE-4	R404A	4	14.10	EXTERNAL		1/2" X 7/8" ODS	86.91
SPTV366	SSE-4-ZP	R404A	4	14.10	EXTERNAL	35	1/2" X 7/8" ODS	86.91
SPTV368	SSE-6	R404A	6	21.10	EXTERNAL		5/8" X 7/8" ODS	86.91
SPTV370	SSE-6-ZP	R404A	6	21.10	EXTERNAL	35	5/8" X 7/8" ODS	86.91
SPTV372	SSE-7	R404A	7	24.60	EXTERNAL		5/8" X 7/8" ODS	86.91
SPTV374	SSE-7-ZP	R404A	7	24.60	EXTERNAL	35	5/8" X 7/8" ODS	86.91
SPTV376	SSE-10	R404A	10	35.20	EXTERNAL		7/8" X 1.1/8" ODS	92.82
SPTV378	SSE-10-ZP	R404A	10	35.20	EXTERNAL	35	7/8" X 1.1/8" ODS	92.82

**EXPANSION VALVES  
- BALANCED PORT**



**PARKER EBS SERIES, ADJUSTABLE SUPERHEAT, SOLDER CONNECTION, 1.5M CAPILLARY  
BALANCED PORT DESIGN**

SPTV380	EBSJE-5-C	R134A	5	17.6	EXTERNAL	-	5/8" X 7/8"	79.97
SPTV382	EBSJE-7-C	R134A	7	24.6	EXTERNAL	-	5/8" X 7/8"	79.97
SPTV384	EBSJE-9-C	R134A	9	31.7	EXTERNAL	-	7/8" X 1.1/8"	105.54
SPTV386	EBSJE-12-C	R134A	12	42.2	EXTERNAL	-	7/8" X 1.3/8"	105.54
SPTV388	EBSNE-8-C	R407C	8	28.1	EXTERNAL	-	5/8" X 7/8"	79.97
SPTV390	EBSNE-11-C	R407C	11	38.7	EXTERNAL	-	5/8" X 7/8"	79.97
SPTV392	EBSNE-15-C	R407C	15	52.8	EXTERNAL	-	7/8" X 1.1/8"	105.54
SPTV394	EBSNE-20-C	R407C	20	70.3	EXTERNAL	-	7/8" X 1.3/8"	105.54
SPTV396	EBSSE-6-C	R404A	6	21.1	EXTERNAL		5/8" X 7/8"	79.97
SPTV398	EBSSE-6-ZP	R404A	6	21.1	EXTERNAL	35	5/8" X 7/8"	79.97
SPTV400	EBSSE-7.1/2-C	R404A	7.1/2	26.4	EXTERNAL	-	5/8" X 7/8"	79.97
SPTV402	EBSSE-7.1/2-ZP	R404A	7.1/2	26.4	EXTERNAL	35	5/8" X 7/8"	79.97
SPTV404	EBSSE-10-C	R404A	10	35.2	EXTERNAL	-	7/8" X 1.1/8"	105.54
SPTV406	EBSSE-10-ZP	R404A	10	35.2	EXTERNAL	35	7/8" X 1.1/8"	105.54
SPTV408	EBSSE-13-C	R404A	13	45.7	EXTERNAL	-	7/8" X 1.1/8"	105.54
SPTV410	EBSSE-13-ZP	R404A	13	45.7	EXTERNAL	35	7/8" X 1.3/8"	105.54

**EXPANSION VALVES  
- BALANCED PORT**



**PARKER O SERIES, ADJUSTABLE SUPERHEAT, SOLDER CONNECTIONS, 1.5M CAPILLARY  
BALANCED PORT DESIGN**

SPTV412	OJE-9-C	R134A	9	31.7	EXTERNAL	-	7/8" X 1.1/8"	129.12
SPTV414	OJE-12-C	R134A	12	42.2	EXTERNAL	-	7/8" X 1.3/8"	129.12
SPTV416	OJE-16-C	R134A	16	56.3	EXTERNAL	-	1.1/8" X 1.3/8"	129.12
SPTV418	OJE-23-C	R134A	23	80.9	EXTERNAL	-	1.1/8" X 1.3/8"	236.42
SPTV420	OJE-32-C	R134A	32	113.0	EXTERNAL	-	1.1/8" X 1.3/8"	236.42
SPTV422	OJE-40-C	R134A	40	141.0	EXTERNAL	-	1.1/8" X 1.3/8"	236.42
SPTV424	ONE-15-C	R407C	15	52.8	EXTERNAL	-	7/8" X 1.1/8"	129.12
SPTV426	ONE-20-C	R407C	20	70.3	EXTERNAL	-	7/8" X 1.3/8"	129.12
SPTV428	ONE-30-C	R407C	30	106.0	EXTERNAL	-	1.1/8" X 1.3/8"	129.12
SPTV430	ONE-40-C	R407C	40	141.0	EXTERNAL	-	1.1/8" X 1.3/8"	236.42
SPTV432	ONE-55-C	R407C	55	193.0	EXTERNAL	-	1.1/8" X 1.3/8"	236.42
SPTV434	ONE-70-C	R407C	70	246.0	EXTERNAL	-	1.1/8" X 1.3/8"	236.42
SPTV436	OSE-9-C	R404A	9	31.7	EXTERNAL	-	7/8" X 1.1/8"	129.12
SPTV440	OSE-12-C	R404A	12	42.2	EXTERNAL	-	7/8" X 1.3/8"	129.12
SPTV444	OSE-21-C	R404A	21	73.9	EXTERNAL	-	1.1/8" X 1.3/8"	129.12
SPTV448	OSE-30-C	R404A	30	106.0	EXTERNAL	-	1.1/8" X 1.3/8"	236.42
SPTV452	OSE-35-C	R404A	35	123.0	EXTERNAL	-	1.1/8" X 1.3/8"	236.42
SPTV456	OSE-45-C	R404A	45	158.0	EXTERNAL	-	1.1/8" X 1.3/8"	236.42

## COMBINED EEV AND SHUT OFF SOLENOID VALVE



CODE	MODEL	DESCRIPTION	NOMINAL COOLING CAPACITY					(AJ) £ LIST EA
			R404A	R134a	R407F	R507	R410a	
DIXL1800	EX3-200	ELECTRONIC EXP VALVE + SOLENOID VALVE	1.10	1.24	1.77	1.08	1.92	CALL FOR PRICE
DIXL1801	EX3-300	ELECTRONIC EXP VALVE + SOLENOID VALVE	2.30	2.59	3.70	2.26	4.01	
DIXL1802	EX3-400	ELECTRONIC EXP VALVE + SOLENOID VALVE	3.70	4.17	5.95	3.64	6.46	
DIXL1803	EX3-500	ELECTRONIC EXP VALVE + SOLENOID VALVE	6.00	6.77	9.65	5.90	10.47	
DIXL1804	EX3-600	ELECTRONIC EXP VALVE + SOLENOID VALVE	9.70	10.94	15.61	9.54	16.93	
DIXL1805	EX3-700	ELECTRONIC EXP VALVE + SOLENOID VALVE	12.30	13.87	19.79	12.10	21.46	
DIXL1806	EX3-800	ELECTRONIC EXP VALVE + SOLENOID VALVE	13.70	15.45	22.04	13.48	23.91	
DIXL1807	EX3-900	ELECTRONIC EXP VALVE + SOLENOID VALVE	17.50	19.74	28.16	17.22	30.54	

Unlike conventional Stepper Type EEV's, this combined EEV and Solenoid valve will automatically shut 100% shut if power fails, so there is no need for a separate liquid line solenoid valve or a battery back up that would normally be required to drive valve shut on power failure.

Evaporating temperature -50°C ÷ +20°C : Liquid temperature -30°C ÷ +75°C.  
For more detailed information the manufacturer's data sheet is available on request.  
For driver, see Dixell XEV22D (P/N DIXL813).

## ELECTRONIC EXPANSION VALVES STEPPER TYPE



CODE	MODEL	DESCRIPTION	REQUIRES COIL PART NO.	NOMINAL COOLING CAPACITY KW*				(AA) £ LIST EA
				R134a	R407C**	R404A R507C	R410a	
SANH800	DPF-(TS1)3.2C-01	ELECTRONIC EXP VALVE (BODY)	SANH810	21.6	28	29.6	33.6	52.94
SANH801	DPF-(S03)4.0C-01	ELECTRONIC EXP VALVE (BODY)		32.3	42	29.4	50.4	85.50
SANH802	DPF-(S03)4.5C-01	ELECTRONIC EXP VALVE (BODY)	SANH811	40.4	52.5	36.8	63	86.45
SANH803	DPF-(S03)5.5C-01	ELECTRONIC EXP VALVE (BODY)		53.9	70	49	84	86.48
SANH804	DPF-(S03)6.5C-01	ELECTRONIC EXP VALVE (BODY)		80.9	105	73.5	126	86.63
SANH810	PQ-M10012-000001	VALVE COIL						19.76
SANH811	PQ-M03012-000001	VALVE COIL						52.99

\* Nominal working conditions: Condensing temperature 38°C, Evaporating temperature 5°C : Sub-cooling 0°K, Superheat 0°K  
\*\* R407C data based on dew point conditions  
For more detailed information the manufacturer's data sheet is available on request.  
For driver, see Dixell XEV22D (P/N DIXL813).

## INTERCHANGEABLE ORIFICE EXPANSION VALVE



### VALVE BODY

CODE	MODEL	REFRIGERANT	INLET	OUTLET	EQUALISER	(AJ) £ LIST EA
SANH440	RFKA04-4.0-23	R134A	3/8" FLARE	1/2" FLARE	INTERNAL	22.00
SANH442	RFKA04E-4.0-19	R134A	3/8" FLARE	1/2" FLARE	EXTERNAL	26.35
SANH444	RFKA04-4.0-30	R134A	3/8" FLARE	1/2" ODS	INTERNAL	22.00
SANH446	RFKA04E-4.0-31	R134A	3/8" FLARE	1/2" ODS	EXTERNAL	26.35
SANH448	RFKA03-3.4-21	R404A	3/8" FLARE	1/2" FLARE	INTERNAL	21.30
SANH450	RFKA03E-3.4-15	R404A	3/8" FLARE	1/2" FLARE	EXTERNAL	25.60
SANH452	RFKA03-3.4-09	R404A	3/8" FLARE	1/2" ODS	INTERNAL	21.30
SANH454	RFKA03E-3.4-10	R404A	3/8" FLARE	1/2" ODS	EXTERNAL	25.60
SANH456	RFKA02-5.2-24	R407C	3/8" FLARE	1/2" FLARE	INTERNAL	21.30
SANH458	RFKA02E-5.2-20	R407C	3/8" FLARE	1/2" FLARE	EXTERNAL	25.60
SANH460	RFKA02-5.2-32	R407C	3/8" FLARE	1/2" ODS	INTERNAL	21.30
SANH462	RFKA02E-5.2-18	R407C	3/8" FLARE	1/2" ODS	EXTERNAL	25.60

### ORIFICE

CODE	MODEL	NOMINAL CAPACITY (KW)			(AA) £ LIST EA
		R134a	R404A	R407C	
SANH480	0X	0.62	0.76	1.09	4.92
SANH481	00	1.10	1.34	1.70	4.92
SANH482	01	2.18	3.06	3.62	4.92
SANH483	02	2.77	4.15	5.00	4.92
SANH484	03	4.07	6.01	7.02	4.92
SANH485	04	5.56	8.73	9.92	4.92
SANH486	05	8.35	12.50	14.80	4.92
SANH487	06	12.00	15.80	20.20	4.92

### SOLDER ADAPTORS - TO CONVERT FLARE INLET TO SOLDER (ODS)

CODE	PART NO.	CONNECTION	(AA) £ LIST EA
SANH490	RFKA-038-01	3/8" x 3/8"	2.90
SANH491	RFKA-038-05	3/8" x 1/4"	2.90

Nominal capacities are quoted at evap +5°C, condensing 38°C, superheat 6K and subcooling 4K  
Full capacity tables are available on request.

## T2 EXPANSION VALVES




Interchangeable orifice expansion valves.

## VALVE BODIES - INTERNALLY EQUALISED

CODE	MODEL	REFRIGERANT	EQUALIZER	INLET/OUTLET CONNECTIONS	MOP (PSI)	
DAN100	TX-2-(N)	R22	INTERNAL	3/8" FL X 1/2" ODS	-	37.31
DAN102	TX-2-(N)	R22	INTERNAL	3/8" FL X 1/2" FL	-	37.31
DAN125	TN-2-(N)	R134A	INTERNAL	3/8" FL X 1/2" ODS	-	28.73
DAN130	TN-2-(N)	R134A	INTERNAL	3/8" FL X 1/2" FL	-	28.73
DAN151	TS-2-(N)	R404A	INTERNAL	3/8" FL X 1/2" ODS	-	28.73
DAN150	TS-2-(N)	R404A	INTERNAL	3/8" FL X 1/2" FL	-	28.73
DAN152	TS-2-(NL)	R404A	INTERNAL	3/8" FL X 1/2" ODS	50	28.73
DAN154	TS-2-(NL)	R404A	INTERNAL	3/8" FL X 1/2" FL	50	28.73
DAN175	TZ-2-(N)	R407C	INTERNAL	3/8" FL X 1/2" ODS	-	28.73

## VALVE BODIES - EXTERNALLY EQUALISED

DAN108	TEX-2-(N)	R22	EXTERNAL	3/8" FL X 1/2" ODS	-	59.83
DAN112	TEX-2-(N)	R22	EXTERNAL	3/8" FL X 1/2" FL	-	55.75
DAN132	TEN-2-(N)	R134A	EXTERNAL	3/8" FL X 1/2" ODS	-	45.96
DAN136	TEN-2-(N)	R134A	EXTERNAL	3/8" FL X 1/2" FL	-	45.96
DAN160	TES-2-(N)	R404A	EXTERNAL	3/8" FL X 1/2" ODS	-	45.96
DAN162	TES-2-(N)	R404A	EXTERNAL	3/8" FL X 1/2" FL	-	44.58
DAN163	TES-2-(NL)	R404A	EXTERNAL	3/8" FL X 1/2" ODS	50	45.96
DAN164	TES-2-(NL)	R404A	EXTERNAL	3/8" FL X 1/2" FL	50	44.58
DAN180	TEZ-2-(N)	R407C	EXTERNAL	3/8" FL X 1/2" ODS	-	45.96
DAN185	TEZ-2-(N)	R407C	EXTERNAL	3/8" FL X 1/2" FL	-	44.58
DAN188	TE-2-(N)	R407A/F	EXTERNAL	3/8" FL X 1/2" ODS	-	54.85

## ORIFICES (FLARE VALVE)

CODE	MODEL	NOMINAL DUTY (KW)				(RQ) £ LIST EA
		R134a	R407A	R407F	R407C	
DAN195	CX	0.4	0.38	1.0	0.50	10.61
DAN200	00	0.9	0.70	2.0	1.1	10.61
DAN202	01	1.8	1.6	4.0	2.7	10.61
DAN204	02	2.6	2.1	5.6	3.8	10.61
DAN206	03	4.6	4.2	9.5	5.6	10.61
DAN208	04	6.7	6.0	14.8	8.6	10.61
DAN210	05	8.6	7.7	19.5	11.3	10.61
DAN212	06	10.5	9.1	23.3	16.7	10.61

## ORIFICES (SOLDER VALVE)

DAN214	CX	0.4	0.38	1.0	0.50	10.61
DAN216	00	0.9	0.70	2.0	1.1	10.61
DAN218	01	1.8	1.6	4.0	2.7	10.61
DAN220	02	2.6	2.1	5.6	3.8	10.61
DAN222	03	4.6	4.2	9.5	5.6	10.61
DAN224	04	6.7	6.0	14.8	8.6	10.61
DAN226	05	8.6	7.7	19.5	11.3	10.61
DAN228	06	10.5	9.1	23.3	16.7	10.61

## SOLDER ADAPTORS - TO CONVERT FLARE INLET TO SOLDER (ODS)

CODE	PART NO.	SIZE (BODY & TUBE)	(RQ) £ LIST EA
DAN240	068-2060	3/8" Flare x 3/8" ODS	8.69
DAN242	068-2062	3/8" Flare x 1/4" ODS	8.69



**LP** Low Pressure Range  
**MNL** Manual Reset  
**FAN** Condenser Fan Control  
**OIL** Oil Differential

**HP** High Pressure Range  
**INTML** Internal Manual Reset  
**AUTO** Automatic Rest  
**DS** Dual signal HP and LP sides

**FD** Fixed Differential  
**DIFF** Differential Pressure

For Pressure control comparisons see Section 7

## COMMERCIAL PRESSURE SWITCHES



Type SNS/HNS/ANS.



Type DNS.

## STANDARD MODELS

CODE	PART NO.	TYPE	RANGE PSI	RESET	(AC*AG) £ LIST EA
MSAG153	SNS-C106X	Standard LP	20"V-85	AUTO	24.42
MSAG155	SNS-C130X	Standard HP	71-426	AUTO	25.48
MSAG168	SNS-C130XQ	HP Cutout	113-426	AUTO, FD	24.77
MSAG170	ANS-C130XB	FAN	71-426	AUTO	26.12
MSAG201	SNS-C106XM2	LP	20"V-85	MNL	27.48
MSAG202	SNS-C130XM2	LP	71-426	MNL	27.48
MSAG203	HNS-C130XM1	HP	113-426	MNL	24.40
MSAG164	SNS-C130XMI	HP	113-426	MNL	26.84
MSAG220	DNS-D306X	Standard LP/HP	20"V-85, 113-426	AUTO, AUTO	41.56
MSAG221	DNS-D606X	LP/HP, DS	20"V-85, 113-426	AUTO, AUTO	47.34
MSAG225	DNS-D306XM	Standard LP/HP	20"V-85, 113-426	AUTO, MNL	42.92
MSAG226	DNS-D606XM	LP/HP, DS	20"V-85, 113-426	AUTO, MNL	48.72
MSAG227	DNS-D606XMM	LP/HP, DS	20"V-85, 113-426	MNL, MNL	49.10

## DOUBLE BELLOWS MODELS (ON HP ONLY) – PED & TUV

MSAG235	SNS-2C130T	Standard HP	113-426	AUTO	42.57
MSAG236	SNS-2C130TM1	HP cutout	113-426	MNL	43.57
MSAG238	DNS-2D306T	Standard LP/HP	20"V-85, 113-426	AUTO/AUTO	59.83
MSAG239	DNS-2D306TM	Standard LP/HP	20"V-85, 113-426	AUTO/MNL	60.79
MSAG240	DNS-2D306TS	LP/HP	20"V-85, 113-426	AUTO/INTM	74.00

UL and low voltage/ampage models on request.

## OIL & DIFFERENTIAL PRESSURE CONTROLS

Supplied with mounting bracket.



CODE	PART NO.	TYPE	TIME DELAY (SECS)	RESET	(AC) £ LIST EA
MSAG260	ONS-C106X Q34	OIL	45	MNL	103.45
MSAG261	ONS-C106X Q35	OIL	90	MNL	103.45
MSAG262	ONS-C106X Q36	OIL	110	MNL	103.45
MSAG266	WNS-C106X	DIFF	0	AUTO	75.28

## OEM PRESSURE SWITCHES FIXED SETTING



CODE	PART NO.	TYPE	SETTING	RESET	CONNECTION	(AC*AG) £ LIST EA
MSAG100	LTB-A301	LP	OFF28PSI	AUTO	SOLDER	17.30
MSAG101	LTB-A304	LP	OFF28PSI	AUTO	1/4 F. FLARE	18.36
MSAG102	LTB-X307	LP	OFF10PSI	AUTO	SOLDER	17.30
MSAG110	HTB-A301	HP/FAN	OFF355PSI	AUTO	SOLDER	18.62
MSAG120	FTB-A301	HP	OFF355PSI	MNL	SOLDER	20.57

## OEM PRESSURE SWITCHES FIXED SETTING



All SPST. (SPDT to special order).  
 Approvals: CE, TUV, UL and UL-C.  
 Flare has schrader depressor.  
 Electrical connection:  
 1,500mm flying leads.

MSAG052	061F7505	HP	OFF261PSI	AUTO	1/4 SOLDER	12.82
MSAG053	061F7506	HP	OFF261PSI	AUTO	1/4 F. FLARE	12.82
MSAG054	061F7508	HP	OFF377PSI	AUTO	1/4 SOLDER	12.82
MSAG083	061F9714	HP	OFF377PSI	MANUAL	1/4 SOLDER	15.51
MSAG055	061F7509	HP	OFF377PSI	AUTO	1/4 F. FLARE	12.82
MSAG084	061F9713	HP	OFF377PSI	MANUAL	1/4 F. FLARE	15.51
MSAG056	061F7513	HP	OFF406PSI	AUTO	1/4 SOLDER	12.82
MSAG057	061F7514	HP	OFF406PSI	AUTO	1/4 F. FLARE	12.82
MSAG085	061F9522	HP	OFF406PSI	MANUAL	1/4 F. FLARE	15.51
MSAG058	061F7516	HP	OFF609PSI	AUTO	1/4 SOLDER	12.82
MSAG059	061F7517	HP	OFF609PSI	AUTO	1/4 F. FLARE	12.82
MSAG003	061F7519	LP	OFF7PSI	AUTO	1/4 SOLDER	12.62
MSAG004	061F7520	LP	OFF7PSI	AUTO	1/4 F. FLARE	12.62
MSAG005	061F7522	LP	OFF10PSI	AUTO	1/4 SOLDER	12.62
MSAG006	061F7523	LP	OFF10PSI	AUTO	1/4 F. FLARE	12.62
MSAG007	061F7525	LP	OFF25PSI	AUTO	1/4 SOLDER	12.62
MSAG008	061F7526	LP	OFF25PSI	AUTO	1/4 F. FLARE	12.62

Other pressure settings available.



**ACCESSORIES**

CODE	PART NO.	LENGTH	(AC) £ LIST EA
MSAG270	AD01	1M PRESSURE COUPLER	4.30
MSAG271	AD06	1M PRESSURE COUPLER C/W SCHRAEDER	4.86
MSAG274	AE01	L SHAPED MOUNTING BRACKET	1.76
MSAG275	SB3	LONGER L SHAPED BRACKET	3.22
MSAG276	AE07	STANDARD FLAT MOUNTING BRACKET	3.22

**BASIC THERMOSTAT**



CODE	PART NO.	RANGE (C)	DIFF (C)	CAPILLARY	FUNCTION	(QA) £ LIST EA
RCL300	TSWM-35	-35/+35	3	1.7m	HEAT OR COOL	8.83

**BIMETALLIC STATS**



For defrost termination, fan delay, limit switch etc.

CODE	PART NO.	RANGE (C)	MOUNT	(AC*AG) £ LIST EA
PSAG445	12-1670L10	CLOSE -3, OPEN +10	3/8 PIPE	12.34
PSAG446	12-167F10	OPEN -3, CLOSE +10	3/8 PIPE	12.34
PSAG447	04PM-1007B10	SPDT -1/+10	3/8, 1/2 PIPE	22.55
PSAG448	04PM-1008B10	SPDT -8/+10	3/8, 1/2 PIPE	22.55
PSAG460	12-1679F43	OPEN 33, CLOSE 43	3/8 PIPE	11.30
PSAG450	23-215235	OPEN 80, MNL	BASE	7.81
PSAG449	CLIP*	5/8, 3/4 PIPE CLIP FOR 04 -		0.67

**FAN SPEED CONTROL**



Pressure sensing, remote mounted. To IP54.

CODE	MODEL	REFRIGERANT	LOAD (AMP)	TYPE	(AC*AG) £ LIST EA
PSAG002	RGE-ZIL4-7DS	R404A/407c/134a	1ph, 3	CUT OFF OR MIN. SPEED	79.65
PSAG003	RGE-ZIL6-7DS	R410A	1ph, 3	CUT OFF OR MIN. SPEED	88.63
PSAG010	RGE-ZIN4-7DS	R404A/407c/134a	1ph, 4	CUT OFF OR MIN. SPEED	99.35
PSAG011	RGE-ZIN6-7DS	R410A	1ph, 4	CUT OFF OR MIN. SPEED	132.98
PSAG025	RGE-ZIP4-7DS	R404A/407c/134a	1ph, 6	CUT OFF OR MIN. SPEED	137.55
PSAG012	RGE-ZIP6-7DS	R410A	1ph, 6	CUT OFF OR MIN. SPEED	158.34
PSAG045	RGE-ZIQ4-7DS	R404A/407c/134a	1ph, 8	CUT OFF OR MIN. SPEED	152.84
PSAG013	RGE-ZIQ6-7DS	R410A	1ph, 8	CUT OFF OR MIN. SPEED	186.80
PSAG066	RGE-X3R4-7	R404A/407c/134a	3ph, 5	CUT OFF OR MIN. SPEED	396.21
PSAG016	RGE-X3R6-7DS	R410A	3ph, 5	CUT OFF OR MIN. SPEED	468.58

Please check that your motor is suitable for speed control. R407c versions suitable for R22.

**FAN SPEED CONTROL**

Pressure sensing, direct mounted. To IP65.



CODE	MODEL	REFRIGERANT	LOAD (AMP)	TYPE	(AC*AG) £ LIST EA
PSAG080	XGE-4C	R404A/407c/134a	1ph, 3	CUT OFF	75.36
PSAG082	XGE-6C	R410A	1ph, 3	CUT OFF	75.36
PSAG084	XGE-4M	R404A/407c/134a	1ph, 3	MIN SPEED	75.36
PSAG086	XGE-6M	R410A	1ph, 3	MIN SPEED	72.81
PSAG088	XGE-AE01*	MOUNTING BRACKET			6.20

Please check that your motor is suitable for speed control.

**FLOW SWITCH**

Type FQS.



CODE	PART NO.	TYPE	SUITABILITY	(AC) £ LIST EA
QSAG160	FQS-U30G	PADDLE	1" TO 6" PIPE DIA	119.14





**ID COOL, CHILL, FREEZE**



CODE	MODEL	PRE-PROGRAMMED CONTROLLER FOR:	COMP. RELAY	PROBE INC.	SUPPLY	(AB) £ LIST EA
PELX603	ID COOL	REFRIGERATORS – OFF CYCLE DEFROST	12A	1 x NTC	230V AC	22.10
PELX667	ID CHILL	CHILLERS – ELECTRICAL DEFROST	12A	2 x NTC	230V AC	30.50
PELX669	ID FREEZE	FREEZERS – ELECTRICAL DEFROST	12A	2 x NTC	230V AC	30.50

Range: ID cool +3°C to +15°C, Chill -15°C to +5°C; Freeze -40°C to -10°C. Chill and Freeze have three relays and include fan delay.

Pre-programmed for desired application.

Ideal for service replacement and original equipment.

**ID PLUS SERIES**

Multi-function refrigeration controllers.



32 x 74mm IP65.

CODE	MODEL	DEFROST TYPE	ALARM TYPE	MAX RANGE °C	PROBE INC.	COMP. RELAY	SUPPLY	(AB) £ LIST EA	
PELX583	ID PLUS 902	NONE	VISUAL	-55/150	NO	8A	12V	40.57	
PELX584	ID PLUS 961	OFF CYCLE	VISUAL	-55/150	NO	12A	12V	41.33	
PELX585	ID PLUS 971	TIME/TEMP	BUZZER	-55/150	NO	12A	12V	51.45	
PELX586	ID PLUS 974	TIME/TEMP FAN DELAY	BUZZER	-55/150	NO	12A	12V	54.94	
PELX594	ID PLUS 902	NONE	VISUAL	-55/150	NO	8A	230V	37.38	
PELX595	ID PLUS 961	OFF CYCLE	VISUAL	-55/150	NO	12A	230V	38.14	
PELX596	ID PLUS 971	TIME/TEMP	BUZZER	-55/150	NO	12A	230V	47.52	
PELX597	ID PLUS 974	TIME/TEMP FAN DELAY	BUZZER	-55/150	NO	12A	230V	50.55	
PELX598	ID PLUS 978	TIME/TEMP FAN DELAY	RELAY	-55/150	NO	10A	230V	59.03	
PELX599	UNICARD USB/TTL PROGRAMMING KEY (OPTIONAL)*								58.63

ID PLUS 902 = Thermostat. All others are Multifunction Refrigeration Controllers. Pre-programmed for NTC probes but can be changed by parameter for PTC and PT1000 probes.

Actual temperature range depends on probe type used.

\*The Unicard key allows programming of ID Plus controllers from a PC using Eliwell's Device Manager software which can be downloaded free from [www.eliwell.it](http://www.eliwell.it)

**CONTROLLERS WITH RTC & SPLIT CONTROLLERS**



CODE	MODEL	DEFROST TYPE	ALARM TYPE	RTC	PROBE INC.	COMPRESSOR RELAY	SUPPLY	(AB) £ LIST EA
PELX685	ID985LX	TIME/TEMP FAN DELAY	VISUAL	YES	NO	8A	12V AC/DC	95.82
PELX800	IS972LX	TIME/TEMP FAN DELAY	VISUAL	NO	NO	AS EWEM	FROM EWEM	51.22
PELX803	EWEM233	SLAVE FOR IS972LX 15A 230V				15A	230V	30.83
PELX810	C0000110	1 METRE CABLE, IS972LX TO EWEM233						3.92
PELX812	C0000112	3 METRE CABLE, IS972LX TO EWEM233						8.61

RTC = Real Time Clock for defrost etc. ID985LX can also be configured for twin evaporator defrost.

**DIGITAL LCD THERMOMETER BATTERY POWERED**



CODE	MODEL	RESOLUTION	ALARM TYPE	MAX RANGE °C	PROBE INC.	PROBE TYPE	SUPPLY	(AB) £ LIST EA
PELE113	EWTL300	1	-	-20/70	YES	PTC	1.5V	12.39

Battery is supplied with item.



by Schneider Electric

**DIGITAL THERMOSTATS  
IC PLUS SERIES**



Standard 32 x 74mm IP65.

CODE	MODEL	TYPE	ALARM TYPE	MAX RANGE °C	PROBE INC.	PROBE TYPE	SUPPLY	(AB) £ LIST EA
PELX920	IC PLUS 902	SINGLE STAGE	NONE	ACCORDING TO PROBE	NO	NTC/PTC	230V AC	53.36
PELX921	IC PLUS 902/A	SINGLE STAGE	RELAY		NO	NTC/PTC	230V AC	60.46
PELX922	IC PLUS 902	SINGLE STAGE	NONE		NO	PT100/TcK/J	230V AC	64.91
PELX923	IC PLUS 915	2 STAGE OR DEADBAND	NONE		NO	NTC/PTC	230V AC	66.70
PELX924	IC PLUS 915	2 STAGE OR DEADBAND	NONE		NO	PT100/TcK/J	230V AC	72.91
PELX930	IC PLUS 902	SINGLE STAGE	NONE		NO	NTC/PTC	12V	50.69
PELX931	IC PLUS 902/A	SINGLE STAGE	RELAY		NO	NTC/PTC	12V	54.24
PELX932	IC PLUS 902/A	SINGLE STAGE	NONE		NO	PT100/TcK/J	12V	62.24
PELX933	IC PLUS 915	2 STAGE OR DEADBAND	NONE		NO	NTC/PTC	12V	64.03
PELX934	IC PLUS 915	2 STAGE OR DEADBAND	NONE		NO	PT100/TcK/J	12V	70.25

Max range is restricted by probe type. Resolution = 1°C or 0.1°C selectable by parameter.  
Probe type selectable by parameter.

**DIGITAL THERMOMETERS  
EM PLUS SERIES**



Standard 32 x 74mm IP65.

CODE	MODEL	RESOLUTION	MAX RANGE °C	INPUT TYPE	SUPPLY	(AB) £ LIST EA
PELX460	EM PLUS 600	0.1	-50c to +140c*	PTC / NTC	12 - 24Vac/dc	36.81
PELX461	EM PLUS 600	0.1	-50c to +140c*	PTC / NTC	230Vac	35.05
PELX462	EM PLUS 600	0.1	-150c to +1350C*	PT100/TcJ,K	12 - 24Vac/dc	37.70
PELX463	EM PLUS 600	0.1	-150c to +1350C*	PT100/TcJ,K	230Vac	37.70

\*Max range is restricted by range of probe used. Probe not supplied.

**PRESSURE HUMIDITY  
DIGITAL DISPLAY  
EM PLUS SERIES**



Standard 32 x 74mm IP65.

CODE	MODEL	RESOLUTION	MAX RANGE °C	INPUT TYPE	SUPPLY	(AB) £ LIST EA
PELX464	EM PLUS 600	0.1	-1999 to + 1999	V/I **	12Vac/dc	33.60
PELX465	EM PLUS 600	0.1	-1999 to + 1999	V/I **	230Vac	36.29

\*Max range is restricted by range of probe used. Probe not supplied

\*\* Input is voltage or current, selectable by parameter H00. 0-20mA / 4-20mA / 0-1V / 0-5V / 0-10V

**PRESSURE HUMIDITY  
DIGITAL CONTROLLERS  
IC PLUS SERIES**



Standard 32 x 74mm IP65.

CODE	MODEL	TYPE	ALARM TYPE	MAX RANGE °C	PROBE INC.	INPUT TYPE	SUPPLY	(AB) £ LIST EA
PELX925	IC PLUS 902	SINGLE STAGE	NONE	ACCORDING TO PROBE	NO	HUMIDITY OR PRESSURE	230V AC	64.91
PELX926	IC PLUS 915	2 STAGE OR DEADBAND	NONE		NO		230V AC	72.91
PELX935	IC PLUS 902	SINGLE STAGE	NONE		NO		12V	62.24
PELX936	IC PLUS 915	2 STAGE OR DEADBAND	NONE		NO		12V	70.25

Resolution = 1c(0.1) selectable by parameter.

Probe type selectable by parameter.

**PACK CONTROLLERS**



CODE	MODEL	REPLAY OUTPUTS	MAX COMPRESSORS	MAX FANS	ANALOGUE INPUTS	ANALOGUE OUTPUTS	SUPPLY	(AB) £ LIST EA
PELE768	EWCM9900	19	12	8	3	3	100-240V	534.53
PELE769	EWCM9100	13	11	8	2	2	100-240V	461.88

Price is for kit comprising DIN mount controller, keyboard and connecting cables. DIN 13 and 18.

We list a selection of the most popular models from the wide range that we stock.

Please contact us for models/variants not shown.

## SPEED CONTROL 1 PHASE



CODE	MODEL	CONTROL TYPE	LOAD	PHASE	INPUT	(AE) £ LIST EA
PELE500	FASEC33	CONDENSER	2A	1	PTC INCLUDED	35.21
PELE505	FASEC33/7A	CONDENSER	7A	1	PTC INCLUDED	45.65
PELE510	FASEC43	EVAPORATOR	2A	1	PTC INCLUDED	44.86
PELE520	FASEC53	MANUAL	2A	1	MANUAL	42.68
PELE530	OCTAL MOUNTING BASE FOR FASEC (NOT REQUIRED FOR PELE505)					2.11

IMPORTANT: Always check motor is suitable for speed control.

## TRANSFORMERS



CODE	MODEL	INPUT	OUTPUT	RATING	SUITABILITY	(AE) £ LIST EA
PELE210	TF111111	230V AC	12V AC	3VA	FOR 1X INSTRUMENT	3.75
PELE209	TF111113	110V AC	12V AC	3VA	FOR 1X INSTRUMENT	3.75
PELE212	TF111115	24V AC	12V AC	3VA	FOR 1X INSTRUMENT	4.83
PELE211	TF111126	230V AC	12V AC	10VA	FOR 5X INSTRUMENT	10.65

## TEMPERATURE SENSORS (PROBES)



CODE	MODEL	TYPE	CAP	TEMPERATURE RANGE	CABLE LENGTH	(AE) £ LIST EA
PELE320	SN7POA1500	PTC – IP67	STAINLESS	-30/+80°C	1.5M	3.56
PELE324	SN7T6H1502	PTC – IMMERSION IP68	STAINLESS	-50/+110°C	1.5M	3.15
PELE325	SN7POA3000	PTC – IP67	STAINLESS	-30/+80°C	3M	4.97
PELE330	SN7SOA1500	PTC – WATERPROOF – IP67	STAINLESS	-50/+110°C	1.5M	4.64
PELE329	SN607000	PTC – WALL BOX	-	-40/+120°C	0M	20.00
PELE338	S6.SH	PTC – HEATING	STEEL	-40/+150°C	1.5M	6.04
PELX320	SN8SOA1500	NTC – WATERPROOF – IP67	STAINLESS	-40/+110°C	1.5M	4.64
PELX321	SN8T6H1502	NTC – IMMERSION IP68	PLASTIC	-50/+110°C	1.5M	3.64
PELX322	SN691150	NTC – IP67	PLASTIC	-50/+120°C	1.5M	3.22
PELX325	SN8PCL1500	NTC – INSULATED FOR 230V*	PLASTIC	-30/+80°C	1.5M	4.52
PELX330	SN8SAA1500	NTC – INSULATED FOR 230V*	STAINLESS	-40/+110°C	1.5M	5.91
PELE300	SN100000	NI100 – STANDARD	STAINLESS	-20/+80°C	3M	11.49
PELE302	SN106000	NI100 – WATERPROOF	STAINLESS	-50/+150°C	3M	16.61
PELE305	SN200000	PT100 – STANDARD	STAINLESS	0/+350°C	3M	26.35
PELE318	SN603008	PTC – STAB TYPE INSERTION PROBE	STAINLESS	-50/+150°C	3M	21.84
CON490	PROBE EXTENSION CABLE				100M	40.50
CON491	PROBE EXTENSION CABLE				25M	10.50

Note: Avoid power cables and other sources of interference, particularly when extending probe cables.

## COPY CARD

CODE	MODEL	DESCRIPTION	(AE) £ LIST EA
PELX590	COPYCARD	PROGRAMMING KEY FOR ID & IC SERIES	24.57

## WALL MOUNTING BOXES & ACCESSORIES

CODE	MODEL	TYPE	MATERIAL	SUITABILITY	(BB) £ LIST EA
PELE216	EW BOX	WALL BOX	ABS	1 INSTRUMENT (32 X 74MM SERIES)	9.47
PELE215	EW BOX	WALL BOX	ABS	2 INSTRUMENT (32 X 74MM SERIES)	9.47
PELE221	EW BOX	WALL BOX	ABS	1 INSTRUMENT (32 X 74MM SERIES)+ 2 X SWITCHES	9.47
PELE223	EW BOX	WALL BOX	ABS	2 INSTRUMENT (32 X 74MM SERIES)+ 2 X SWITCHES	9.47
PELE225	IN111111	SWITCH	-	FITS WALL BOXES	2.13

ABS boxes 110W x 180H x 100D. Stainless Steel box 120W x 160H x 120D. PELE215 is horizontal format.

## PANELS



CODE	MODEL	RTC HACCP	CIRCUIT BREAKER	RELAYS	MAX. COMP RATING	SUPPLY	DEFROST	(AB) £ LIST EA
PELX485	EWRC500 NT	NO	NO	5	12A	230V 1PH	ELECTRIC / HOT GAS	107.52
PELX486	EWRC500 NT	NO	YES*	5	12A	230V 1PH	ELECTRIC / HOT GAS	122.85
PELX487	EWRC500 NT	YES	YES*	5	12A	230V 1PH	ELECTRIC / HOT GAS	133.35

Internal DIN Rail fitted for mounting larger relays. Hinges adjustable for RH or LH opening.

\* Panel comes fitted with circuit breaker accessible from front behind fold down clear flap.

RTC = Real Time Clock. HACCP = Alarm Event Recording (Hazard Analysis and Critical Control Point).

IP65 Seal





**HUMIDITY SENSORS**



CODE	MODEL	TYPE	RANGE %RH	OUTPUT	SUITABILITY	(BB) £ LIST EA
PELE980	EWHS314	HUMIDITY + TEMP*	5/98	4-20mA	ALL INSTRUMENTS	253.56
PELE975	EWHS284	HUMIDITY	15/90	4-20mA	ALL INSTRUMENTS	104.90

\*Temperature compensation PT100.

**PRESSURE SENSORS  
(TRANSDUCERS)**



CODE	MODEL	TYPE	RANGE BAR	OUTPUT	FITTING	SUITABILITY	(BB) £ LIST EA
PELE691	EWPA007	2 WIRE	-0.5/7	4-20mA	FLARE	ALL INSTRUMENTS	112.12
PELE696	EWPA030	2 WIRE	0/30	4-20mA	FLARE	ALL INSTRUMENTS	112.12

**TELEVIS GO  
MONITORING SYSTEMS**



CODE	MODEL	DESCRIPTION	MAX POINTS MONITORED	(BB) £ LIST EA
TEVS600	TELEVIS GO R2 LE/10 KIT	AUTOMATIC MONITORING UNIT c/w RS485 TO RS232 SERIAL ADAPTER	10	1738.36
TEVS601	TELEVIS GO R2 LE/30 KIT	AUTOMATIC MONITORING UNIT c/w RS485 TO RS232 SERIAL ADAPTER	30	1893.97
TEVS602	TELEVIS GO R2 LE/60 KIT	AUTOMATIC MONITORING UNIT c/w RS485 TO RS232 SERIAL ADAPTER	60	2098.49

**TELEVIS DATA & ALARM  
MODULES**



CODE	MODEL	FUNCTION	RS485 CONNECT.	(BB) £ LIST EA
TEVS100	EWTV200	DATA MODULE FOR DIRECT INPUTS FROM TEMPERATURE PROBES MAXIMUM NUMBER OF INPUTS PER MODULE = 3 (PTC)	DIRECT	111.97
TEVS105	EWTV240	DATA MODULE FOR DIRECT INPUTS FROM HUMIDITY SENSORS OR PRESSURE TRANSDUCERS. MAXIMUM NUMBER OF INPUTS PER MODULE = 3 (4-20mA)	DIRECT	122.81
TEVS107	EWTV270	ALARM MODULE FOR PLANT ALARMS MAXIMUM NUMBER OF INPUTS PER MODULE = 3(230V)	DIRECT	122.81
TEVS150	EWTV150	ADDRESS CONFIGURATOR TOOL FOR ABOVE MODULES		94.25

Data Modules have RS485 built in and require a 230V supply.

**SERIAL BUS**

CODE	MODEL	DESCRIPTION	TO USE WITH	(AB) £ LIST EA
TEVS261	130	RS485 SERIAL COMMS. EXTERNAL MODULE C/W CONNECTING CABLE	CONTROLLERS	36.57

We recommend Belden 8772 or equivalent for the network cable. Avoid running near power cables and other sources of electrical noise.

Run as a daisy chain without forming loops or spurs. Maintain correct polarity throughout entire network. Max length 1,000m.

Radio Adaptor available for wireless networks.

**FASCIA COVER**



CODE	MODEL	DESCRIPTION	(AK) £ LIST EA
DIXL919	WP COVER	PLEXIGLASS WEATHER PROOF FASCIA COVER	7.15

Suitable for most 32 x 74mm format controllers

**FILTERS, VOLTAGE DROP  
RESISTORS, SUPPRESSORS**

CODE	MODEL	APPLICATION	WIRING	(QA) £ LIST EA
PELE340	RT111111	24 VOLT TO 12 VOLT VOLTAGE DROP RESISTOR	IN SERIES	0.80
PELE342	FT111111	NOISE FILTER FOR INDUCTIVE COILS (250V AC)	IN PARALLEL	3.58
CON200		NOISE FILTER FOR MAINS SUPPLY (250V AC)	IN SERIES	17.33
CON210		VARIATOR VOLTAGE SPIKE SUPPRESSOR (25V AC)	IN PARALLEL	2.50





## DRIVERS FOR PULSED (ON/OFF) & STEPPER ELECTRONIC EXPANSION VALVES



CODE	MODEL	DESCRIPTION	TRANS INPUT	TEMP INPUT	SUPPLY	(AE) £ LIST EA
PELX375	V800/P1	EXPANSION VALVE DRIVER FOR ON/OFF TYPE (AC)	Use 4-20mA	Use NTC*	100-240V	202.65
PELX376	V800/P3	EXPANSION VALVE DRIVER FOR ON/OFF TYPE (DC)	Use 4-20mA	Use NTC*	100-240V	202.65
PELX377	IWK/V	CONFIGURATION KEYBOARD FOR V800			N/A	49.43
PELX378	XVD	EXPANSION VALVE DRIVER FOR STEPPER TYPE	Use 4-20mA	Use NTC*	24V	239.40
PELX379	SKP10	CONFIGURATION KEYBOARD FOR XVD			N/A	65.56
PELX380	TF111205	TRANSFORMER FOR XVD – 230/24V 35VA			230V	23.21
PELX381	ID985/V	CONTROLLER (FOR USE WITH V800 – OPTIONAL)			100-240V	202.65
PELX382	SN8DNB11502A0	FAST RESPONSE NTC PROBE 4 x 16 TPE RING				8.75
PELX383	SN8DEB21502C0	FAST RESPONSE NTC PROBE 6 x 20 TPE RING				6.32

WARNING: Use V800 for On/Off type valves and XVD for Stepper type valves. The V800 & XVD can work as a standalone driver or together with the ID985V controller. \*Probe not supplied, use rapid response NTC probe PELX382 or 383.

## GAS LEAK MONITORS

LKD100



LKD200



CODE	MODEL	DESCRIPTION	SENSOR	IP RATING	APPLICATIONS	GAS	SUPPLY	(AE) £ LIST EA
PELX700	LKD110	LEAK MONITOR	IR	IP41	NT	CO2	12/24V	706.63
PELX701	LKD100	LEAK MONITOR	SC	IP41	NT	R134A	12/24V	351.20
PELX702	LKD100	LEAK MONITOR	SC	IP41	NT	R404A	12/24V	351.20
PELX703	LKD100	LEAK MONITOR	SC	IP41	NT	NH3	12/24V	351.20
PELX704	LKD100	LEAK MONITOR	SC	IP41	NT	R290	12/24V	351.20
PELX705	LKD100	LEAK MONITOR	SC	IP41	NT	R507A	12/24V	351.20
PELX706	LKD100	LEAK MONITOR	SC	IP41	NT	R22	12/24V	351.20
PELX707	LKD100	LEAK MONITOR	SC	IP41	NT	R600	12/24V	351.20
PELX708	LKD210	LEAK MONITOR	IR	IP66	LT	CO2	12/24V	706.63
PELX709	LKD200	LEAK MONITOR	SC	IP66	LT	R134A	12/24V	373.76
PELX710	LKD200	LEAK MONITOR	SC	IP66	LT	R404A	12/24V	373.76
PELX711	LKD200	LEAK MONITOR	SC	IP66	LT	NH3	12/24V	373.76
PELX712	LKD200	LEAK MONITOR	SC	IP66	LT	R290	12/24V	373.76
PELX713	LKD200	LEAK MONITOR	SC	IP66	LT	R507A	12/24V	373.76
PELX714	LKD200	LEAK MONITOR	SC	IP66	LT	R410A	12/24V	373.76
PELX715	LKD200	LEAK MONITOR	SC	IP66	LT	R600	12/24V	373.76

Sensor Types IR = Infra Red, SC = Semiconductor. IP66 versions have external sensor heads for high humidity areas. All have volt free alarm relays for remote alarm or they can be connected to an Eliwell Televis monitoring system.

## USB DATALOGGERS

Records temperature/humidity



CODE	MODEL	APPLICATION	RANGE	(BB) £ LIST EA
LOGR600	USB-1	DATALOGGER – TEMPERATURE -	35°C/+80°C	36.95
LOGR602	USB-1-PRO	DATALOGGER – TEMPERATURE – EXTENDED RANGE	-40°C/+125°C	98.50
LOGR604	USB-2-LCD	DATALOGGER – TEMPERATURE AND HUMIDITY WITH ONBOARD LCD DISPLAY	-35°C/+80°C 0/100%RH	60.95
LOGR606	BAT-1	SPARE BATTERY	-	6.20

Battery powered and very simple to use, place one inside a coldstore or cabinet to record temperature/humidity. To download data, just plug it into a PC's USB port (software free download). Data can be displayed as a graph or table.

## CONTROL PANELS

Fitted with digital controls



Standard panel.

All panels to include door interlocked isolator, MCB protection, LED indicator lights, IP54 enclosure.

Dixell controller with XJ485CX connection for XWEB & sensors, terminal rail with connections for control circuit, drain line heater, door switch, coldroom lights, & crankcase heater.

## ELECTRIC DEFROST, DOL, 1 UNIT TO 1 EVAPORATOR

CODE	COMP FLA	COND FAN FLA	EVAP FANS FLA	ELEC DEFROST (MAX)	(BU) £ LIST EA
CONP400	20 amps 230v/1ph	3.0 amps 230v/1ph	2.0 amps 230v/1ph	3Kw 230v/1ph	580.45
CONP405	20 amps 230v/1ph	3.0 amps 230v/1ph	2.0 amps 230v/1ph	6.0Kw 400v/3ph	607.24
CONP410	22 amps/ph 400v/3ph	5.0 amps 230v/1ph	4.0 amps 230v/1ph	9.0Kw 400v/3ph	719.76
CONP415	35 amps/ph 400v/3ph	5.0 amps 230v/1ph	4.0 amps 230v/1ph	12.0Kw 400v/3ph	926.93

## ELECTRIC DEFROST, DOL, 1 UNIT, 2 EVAPORATORS

CONP420	22 amps/ph 400v/3ph	3.0 amps 230v/1ph	2 x 2.0 amps 230v/1ph	2 x 3.0Kw 230v/1ph	£996.59
CONP425	35 amps/ph 400v/3ph	8.0 amps 230v/1ph	2 x 4.0amps 230v/1ph	2 x 6.0Kw 400v/3ph	1,139.47

## OFF CYCLE DEFROST, DOL 1 UNIT TO 1 EVAPORATOR

CONP430	20 amps 230v/1ph	3.0 amps 230v/1ph	2.0 amps 230v/1ph	-	553.66
CONP435	22 amps/ph 400v/3ph	5.0 amps 230v/1ph	4.0 amps 230v/1ph	-	634.03

## ELECTRIC DEFROST PWS, 1 UNIT TO 1 EVAPORATOR (50/50 PWS)

CONP440	30amps/ph 400v/3ph	4.0 amps/ph 400v/3ph	5.0 amps/ph 400v/3ph	20.0Kw 400v/3ph	1,643.12
CONP445	60amps/ph 400v/3ph	4.0 amps/ph 400v/3ph	10.0 amps/ph 400v/3ph	40.0Kw 400v/3ph	1,861.01

## OFF CYCLE DEFROST, PWS, 1 UNIT TO 1 EVAPORATOR (50/50 PWS)

CONP450	30amps/ph 400v/3ph	4.0 amps/ph 400v/3ph	5.0 amps/ph 400v/3ph	-	1,400.22
CONP455	60amps/ph 400v/3ph	4.0 amps/ph 400v/3ph	10.0 amps/ph 400v/3ph	-	1,652.05



**COLDROOM PANELS**

IP65 Panels with big 25mm LED display.



Expert models.

CODE	MODEL	MAX COMP RATING	SUPPLY		DEFROST	(BB) £ LIST EA
			COMP	FAN		
CONP500	ECP200 HP1 CR	5A	1PH	1PH	OFF CYCLE	136.26
CONP510	ECP200 HP2	10A	1PH	1PH	ELECTRIC	155.00
CONP513	ECP200 EXPERT	10A	1PH	1PH	ELECTRIC	115.00
CONP511	ECP200 EXPERT – TWIN EVAP.	10A	1PH	1PH	ELECTRIC	194.42
CONP515	ECP300/200 VDM	8A	1PH	1PH	ELECTRIC	277.32
CONP520	ECP300/200 VS	8A/PHASE	3PH	1PH	OFF CYCLE	247.00
CONP525	ECP300U VD6 EXPERT – EVAP MODEL	N/A	N/A	1PH	ELECTRIC	295.00
CONP532	ECP300/200VD PD	8A/PHASE	3PH	1PH	ELECTRIC	330.74
CONP533	ECP300 VD4 EXPERT	10A/PHASE	3PH	1PH	ELECTRIC	482.87
CONP534	ECP300 VD7 EXPERT	20A/PHASE	3PH	1 & 3PH	ELECTRIC	603.59
CONP535	ECP400/200 VD PD	13A/PHASE	3PH	1PH	ELECTRIC	449.20
CONP540	ECP750/200 VD PD	20A/PHASE	3PH	1PH	ELECTRIC	476.63
CONP545	ECP1000/200 VD PD	25A/PHASE	3PH	1PH	ELECTRIC	586.41

Expert models have built-in circuit breakers.  
Some models also available with built-in datalogger.  
PD models are for pump down applications.

**DATALOGGER**



CODE	MODEL	FUNCTION	INPUT TYPE	(BB) £ LIST EA
CONP555	DL3	EXPERT SERIES 3 CHANNEL DATALOGGER	3 x NTC	291.00
CONP556	SD	SD CARD FOR DATA TRANSFER (OPTIONAL)	-	40.12
CONP557	SDR	SD CARD READER FOR PC (OPTIONAL)	-	38.83

SD Card and Card Reader are optional – they allow data to be transferred to a PC if required.  
CONP555 is supplied complete with probes.

**TRAPPED MAN ALARM**



CODE	MODEL	FUNCTION	VOLTAGE	(BB) £ LIST EA
CONP565	ECP-APE03	TRAPPED MAN ALARM PANEL WITH EMERGENCY PUSH BUTTON. AUDIO/VISUAL ALARM + VOLT FREE REMOTE ALARM RELAY. BATTERY BACK-UP	230V AC	148.40

Alarm relay can also be used to stop refrigeration/turn on room light etc.

**ALARM GSM MODEM**



CODE	MODEL	FUNCTION	VOLTAGE	(BB) £ LIST EA
CONP566	200GSM	DIAL OUT GSM ALARM MODEM	230V	118.68
CONP567	LBATT	LITHIUM BACK UP BATTERY	N/A	9.79

Can be connected to any device that has a volt free alarm relay. Can be programmed with up to 10 phone numbers. When triggered it calls programmed numbers. Recipient should know any call from this number indicates an alarm.  
SIM Card required (not supplied).

**SPEED CONTROLLER**



Suitable for EC fans

CODE	MODEL	ITEM	INPUTS	OUTPUT	RELAYS	SUPPLY	(BB) £ LIST EA
CONP660	DIN NANO FSC	FAN SPEED CONTROLLER	4-20mA + NTC*	0-10V	2	230V	140.70
DIXL570	PP30	PRESSURE TRANSDUCER 0-30 BAR					117.67
CONPS005	SONNTC3MPVC	NTC PROBE - 3 METRE					7.30

Relays are Fan Enabled and Alarm.  
\*NTC input is for dynamic ambient control, not required for fixed speed applications.



**UNIVERSAL SERVICE REPLACEMENTS**



CODE	MODEL	UNIVERSAL SERVICE REPLACEMENT FOR	PROBE(S) INC.	RELAY(S)	SUPPLY	(AJ) £ LIST EA
DIXL047	UNIVERSAL-J	THERMOSTATS (COOLING OR HEATING) & OFF CYCLE DEFROST CONTROLLERS – WORKS WITH NTC OR PTC	YES	1 x 20A	12V AC/DC	32.50
DIXL042	UNIVERSAL-R V4.0 DUAL VOLTAGE	THERMOSTATS (COOLING, HEATING OR DEADBAND) OFF CYCLE OR FORCED DEFROST – FAN CONTROL – 4TH RELAY FOR 2ND EVAPORATOR DEFROST/ALARM/LIGHT OR AUX WITH ALARM BUZZER – WORKS WITH NTC OR PTC – AUTO RECOGNITION	YES 2 x NTC	3 x 8A FAN x 7A	12V AC/DC & 230V AC	59.75

The Universal-J will replace most thermostats (cooling or heating) and Off Cycle Defrost controllers (see page 115 for details).  
The Universal-R will replace most thermostats (cooling or heating), Off Cycle Defrost and full Multi-Function Refrigeration Controllers (see page?)  
Will work with industry standard NTC or PTC probes (Universal-R can auto recognise probe type).

**REFRIGERATION THERMOSTATS & MULTI-FUNCTION CONTROLLERS-PRIME SERIES**



Standard 32 x 74mm IP65

CODE	MODEL	DEFROST TYPE	ALARM TYPE	MAX RANGE °C	PROBE(S) INC.	COMP. RELAY	SUPPLY	(AJ) £ LIST EA
DIXL773	XR10CX	NONE	VISUAL	-50 to +150	YES	20A	12V AC/DC	39.84
DIXL775	XR10CX	NONE	VISUAL	-50 to +150	YES	20A	230V AC	43.86
DIXL777	XR20CX	OFF CYCLE	VISUAL	-50 to +150	YES	20A	12V AC/DC	44.62
DIXL780	XR20CX	OFF CYCLE	VISUAL	-50 to +150	YES	20A	230V AC	45.75
DIXL782	XR30CX	OFF CYCLE	VISUAL+RELAY	-50 to +150	YES	20A	12V AC/DC	49.17
DIXL783	XR30CX	OFF CYCLE	VISUAL+RELAY	-50 to +150	YES	20A	230V AC	52.92
DIXL784	XR40CX	TIME/TIME or TEMP	VISUAL	-50 to +150	YES	20A	12V AC/DC	52.78
DIXL785	XR40CX	TIME/TIME or TEMP	VISUAL	-50 to +150	YES	20A	230V AC	57.14
DIXL787	XR60CX	TIME/TEMP+FAN DELAY	VISUAL	-50 to +150	YES	8A	12V AC/DC	52.72
DIXL788	XR60CX	TIME/TEMP+FAN DELAY	VISUAL	-50 to +150	YES	8A	230V AC	56.47
DIXL790	XR60CX	TIME/TEMP+FAN DELAY	VISUAL	-50 to +150	YES	15A	12V AC/DC	60.19
DIXL792	XR60CX	TIME/TEMP+FAN DELAY	VISUAL	-50 to +150	YES	15A	230V AC	64.63
DIXL794	XR70CX	TIME/TEMP+FAN DELAY	VISUAL+BUZZER+RELAY	-50 to +150	YES	5A	230V AC	73.54
DIXL796	XR72CX	TIME/TEMP+FAN DELAY	VISUAL+BUZZER+RELAY	-50 to +150	YES	2 x 5A	230V AC	78.20
DIXL791	XR64CX	TWIN EVAP	VISUAL	-50 to +150	NO	8A	230V AC	53.68

Range with probes supplied -30°C to -80°C. Extended range probes available, see accessories.

**MULTI-FUNCTION REFRIGERATION CONTROLLERS WITH REAL TIME CLOCKS\***



DIXL797	XR30CX	*RTC OFF CYCLE	VISUAL+RELAY	-50 to +150	NO	20A	230V AC	63.30
DIXL795	XR70CX	*RTC TIME/TEMP+FAN DELAY	VISUAL+BUZZER+RELAY	-50 to +150	NO	16A	230V AC	76.34

\*RTC (Real Time Clock) is for scheduling Defrosts or Energy Saving at specific times of day.

**MILK TANK CONTROLLERS**



Standard 32 x 74mm

CODE	MODEL	MAIN FUNCTIONS	PROBE(S) INC.	COMP. RELAY	SUPPLY	(AJ) £ LIST EA
DIXL152	XR80CX	COMPRESSOR + AGITATOR CONTROL + ALARM BUZZER	YES	20A	12V AC/DC	55.40

**DIXELL PANELS**

Coolmate



CODE	MODEL	MAX COMP. RATING	SUPPLY		DEFROST	(AJ) £ LIST EA
			COMP	FAN		
DIXL1500	XLR130 - COLDROOM PANEL OFF CYCLE DEFROST	20A	1PH	1PH	OFF CYCLE	132.50
DIXL1505	XLR170 - SINGLE OR TWIN EVAPORATOR	20A	1PH	1PH	ELECTRIC	144.50

Both models can be either wall or flush panel mounted.

XLR170's Auxiliary relay can be configured to control a second evaporator defrost, a second compressor or a heater bank.

Each panel requires 2 x NTC sensors (not included, use DIXL970).



**COMPACT THERMOMETERS**



**BASIC DIGITAL THERMOSTATS**



Standard 32 x 74mm IP65.  
Most models also available in 72 x 72mm and DIN rail formats.

CODE	MODEL	RESOLUTION	ALARM TYPE	MAX RANGE °C	PROBE(S) INC.	PROBE TYPE	SUPPLY	(AJ) £ LIST EA
DIXL430	XT11S	0.1	-	-30/80	YES	NTC	12V AC/DC	30.31
DIXL440	XT11S	0.1	-	-30/80	YES	NTC	230V AC	35.20
DIXL452	ADAPTOR MOUNT FOR 32 x 74 CUTOUT							0.92

CODE	MODEL	RESOLUTION	ALARM TYPE	MAX RANGE °C	PROBE(S) INC.	PROBE TYPE	SUPPLY	(AJ) £ LIST EA
DIXL180	XT110C	SINGLE STAGE	VISUAL	-55/150	NO	PTC/NTC	12V AC/DC	55.70
DIXL190	XT111C	SINGLE STAGE	RELAY + BUZZER	-55/150	NO	PTC/NTC	12V AC/DC	64.50
DIXL300	XT120C	TWO STAGE	VISUAL	-55/150	NO	PTC/NTC	12V AC/DC	63.27
DIXL310	XT121C	TWO STAGE	RELAY + BUZZER	-55/150	NO	PTC/NTC	12V AC/DC	70.69
DIXL340	XT130C	DEADBAND	VISUAL	-55/150	NO	PTC/NTC	12V AC/DC	58.51
DIXL350	XT131C	DEADBAND	RELAY + BUZZER	-55/150	NO	PTC/NTC	12V AC/DC	72.38

Maximum range is restricted by probe type and resolution (three digits with or without decimal point switched on).  
Resolution 1 (0.1) selectable by parameter.  
Probe type selectable by parameter.

**ACCESSORIES**



CODE	MODEL	DESCRIPTION	(AK) £ LIST EA
DIXL695	-	PROGRAMMING HOT KEY	7.02
DIXL996	C-BOX	SMALL WALL BOX 108W x 108H x 90D mm - IP55 FOR SINGLE INSTRUMENT	8.68
DIXL997	C-BOX2	LARGE WALL BOX 105W x 170H x 82D mm - IP55 FOR SINGLE INSTRUMENT	15.04
DIXL921	FA/CX	ADAPTER PANEL - 32x74 CX TO 185mm WIDE*	4.22
DIXL922	CXLS	ROCKER SWITCH - RED	2.97
DIXL923	CXLS	ROCKER SWITCH - GREEN	2.97
DIXL924	CXLS	ROCKER SWITCH - YELLOW	2.97
DIXL925	T92	EXTERNAL RELAY 30A	12.14

**ADVANCED REFRIGERATION THERMOSTATS & MULTI-FUNCTION CONTROLLERS**



Standard 32 x 74mm IP65.

CODE	MODEL	MAIN FUNCTIONS	PROBE INCLUDED	SUPPLY	(AJ) £ LIST EA
DIXL881	XR110C	THERMOSTAT - ON/OFF	NO - USE PTC/NTC	12V AC/DC	50.17
DIXL883	XR120C	THERMOSTAT + OFF CYCLE DEFROST	NO - USE PTC/NTC	12V AC/DC	48.17
DIXL884	XR130C	THERMOSTAT + OFF CYCLE DEFROST + AUX/ALARM RELAY	NO - USE PTC/NTC	12V AC/DC	59.54
DIXL885	XR140C	THERMOSTAT + TIME/TEMP DEFROST	NO - USE PTC/NTC	12V AC/DC	59.74
DIXL887	XR160C	THERMOSTAT + TIME/TEMP DEFROST + FAN DELAY	NO - USE PTC/NTC	12V AC/DC	65.25
DIXL889	XR170C	THERMOSTAT + TIME/TEMP DEFROST + FAN DELAY + AUX/ALARM RELAY	NO - USE PTC/NTC	12V AC/DC	69.14
DIXL083	XR164C	TWIN EVAPORATOR THERMOSTAT + TIME/TEMP DEFROST + FAN DELAY	NO - USE PTC/NTC	12V AC/DC	68.02
DIXL090	XR570C	THERMOSTAT + TIME/TEMP DEFROST + FAN DELAY + AUX/ALARM RELAY + RTC**	NO - USE PTC/NTC	12V AC/DC	107.51
DIXL081	XR170C	THERMOSTAT + TIME/TEMP DEFROST + FAN DELAY + AUX/ALARM RELAY + FSC***	NO - USE PTC/NTC	12V AC/DC	75.97
DIXL801	XR75CX	THERMOSTAT + TIME/TEMP DEFROST + FAN DELAY + AUX/ALARM RELAY + RTC**	NO USE PT1000 /NTC	230V AC	82.19
DIXL804	XR75CX	THERMOSTAT + TIME/TEMP DEFROST + FAN DELAY + AUX/ALARM RELAY	NO USE PT1000 /NTC	230V AC	71.97

\*\*RTC = Real Time Clock for defrost, \*\*\*FSC = 4-20mA output for Fan Speed Control.



DIGITAL THERMOMETERS



Standard 32 x 74mm IP65.

CODE	MODEL	RESOLUTION	ALARM TYPE	MAX RANGE °C	PROBE TYPE (NOT INCLUDED) SELECTABLE BY PARAMETER	SUPPLY	(AJ) £ LIST EA
DIXL417	XA100C	0.1	-	-999/+999	PTC/NTC/PT100/THERMO-COUPLE K, J OR S	12V AC/DC	56.22

Maximum range is restricted by probe type and resolution (three digits with or without decimal point switched on).

EXTENDED RANGE DIGITAL THERMOSTATS



Standard 32 x 74mm IP65.

CODE	MODEL	TYPE	ALARM TYPE	MAX RANGE °C	PROBE TYPE (NOT INCLUDED) SELECTABLE BY PARAMETER	SUPPLY	(AJ) £ LIST EA
DIXL200	XT110C	SINGLE STAGE	VISUAL	-999/+999	PTC/NTC/PT100/THERMO-COUPLE K, J OR S	12V AC/DC	60.56
DIXL210	XT111C	SINGLE STAGE	RELAY+BUZZER	-999/+999	PTC/NTC/PT100/THERMO-COUPLE K, J OR S	12V AC/DC	70.81
DIXL330	XT120C	TWO STAGE	VISUAL	-999/+999	PTC/NTC/PT100/THERMO-COUPLE K, J OR S	12V AC/DC	67.09
DIXL311	XT121C	TWO STAGE	RELAY+BUZZER	-999/+999	PTC/NTC/PT100/THERMO-COUPLE K, J OR S	12V AC/DC	80.41
DIXL342	XT130C	DEADBAND	VISUAL	-999/+999	PTC/NTC/PT100/THERMO-COUPLE K, J OR S	12V AC/DC	67.09
DIXL352	XT131C	DEADBAND	RELAY+BUZZER	-999/+999	PTC/NTC/PT100/THERMO-COUPLE K, J OR S	12V AC/DC	80.41

Maximum range is restricted by probe type and resolution (three digits with or without decimal point switched on).

MULTI-STAGE THERMOSTATS

DIN rail mount



CODE	MODEL	STAGES	ALARM TYPE	MAX RANGE °C	PROBE TYPE	SUPPLY	(AJ) £ LIST EA
DIXL383	XT160D	4	VISUAL	-999/+999	PTC/NTC/PT100/THERMO-COUPLE K, J OR S	230V AC	86.78
DIXL384	XT150D	3	RELAY	-999/+999	PTC/NTC/PT100/THERMO-COUPLE K, J OR S	24V AC/DC	89.01

Each relay can be individually programmed as heating or cooling and can be independent or linked. Probe type programmable via parameter – range according to probe type.

PRESSURE-HUMIDITY DIGITAL DISPLAY

4

Standard 32 x 74mm IP65.

CODE	MODEL	RESOLUTION	ALARM TYPE	MAX RANGE °C	*DISPLAY SELECTABLE BY PARAMETER	INPUT TYPE SELECTABLE BY PARAMETER	SUPPLY	(AJ) £ LIST EA
DIXL711	XA100C	0.1/1	-	-999/+999	%RH, BAR, PSI, G, F	4-20mA, 0-1V, 0-10V	12V AC/DC	86.78

Maximum range is restricted by input sensor type and resolution (3 digits with or without decimal point switched on). \*Illuminated symbol within display will indicate the unit of measurement as %RH, BAR, PSI, Degrees °C/°F or no symbol.

PRESSURE-HUMIDITY DIGITAL CONTROLLERS



Standard 32 x 74mm IP65.

CODE	MODEL	TYPE	ALARM TYPE	MAX RANGE °C	*DISPLAY SELECTABLE BY PARAMETER	INPUT TYPE SELECTABLE BY PARAMETER	SUPPLY	(AJ) £ LIST EA
DIXL701	XT110C	SINGLE STAGE	VISUAL	-999/+999	%RH, BAR, PSI, G, F	4-20mA, 0-1V, 0-10V	12V AC/DC	60.56
DIXL706	XT111C	SINGLE STAGE	RELAY+BUZZER	-999/+999	%RH, BAR, PSI, G, F	4-20mA, 0-1V, 0-10V	12V AC/DC	70.81
DIXL721	XT120C	TWO STAGE	VISUAL	-999/+999	%RH, BAR, PSI, G, F	4-20mA, 0-1V, 0-10V	12V AC/DC	67.09
DIXL726	XT121C	TWO STAGE	RELAY+BUZZER	-999/+999	%RH, BAR, PSI, G, F	4-20mA, 0-1V, 0-10V	12V AC/DC	80.41
DIXL728	XT130C	DEADBAND	VISUAL	-999/+999	%RH, BAR, PSI, G, F	4-20mA, 0-1V, 0-10V	12V AC/DC	67.09
DIXL729	XT131C	DEADBAND	RELAY+BUZZER	-999/+999	%RH, BAR, PSI, G, F	4-20mA, 0-1V, 0-10V	12V AC/DC	80.41

Maximum range is restricted by input sensor type and resolution (3 digits with or without decimal point switched on). \*Illuminated symbol within display will indicate the unit of measurement as %RH, BAR, PSI, Degrees °C/°F or no symbol.

COMBINED TEMPERATURE & HUMIDITY CONTROLLERS



Dual Display

CODE	MODEL	RANGE TEMP.	RANGE HUMIDITY	TEMP SENSOR	HUMIDITY SENSOR	H/V*	DEFROST RELAY	SUPPLY	(AJ) £ LIST EA
DIXL750	XH240L	-40/110°C	0-100% RH	USE NTC	USE XH20P	H*	NO	230V	114.59
DIXL752	XH260L	-40/110°C	0-100% RH	USE NTC	USE XH20P	H*	YES	230V	128.01
DIXL755	XH240V	-40/110°C	0-100% RH	USE NTC	USE XH20P	V*	NO	230V	115.77
DIXL757	XH260V	-40/110°C	0-100% RH	USE NTC	USE XH20P	V*	YES	230V	128.01

\*H = Controller in horizontal format, V = Controller in vertical format.



**COMPACT STEP & PACK CONTROLLERS**



Standard 32 x 74mm IP65.

CODE	MODEL	NUMBER OF OUTPUTS	INPUTS (CONFIGURABLE BY PARAMETER)	ALARM TYPE	SUPPLY	(AJ, AK) £ LIST EA	
DIXL510	XC440C	4	1 x PTC, NTC or 4-20mA	BUZZER + RELAY	12V AC/DC	115.96	
DIXL547	XC642C	*5	1 x PTC, NTC or 4-20mA + 1 x PTC FOR LIQUID INJECTION	BUZZER	12V AC/DC	125.63	
DIXL548	XC650C	**5	2 x PTC, NTC or 4-20mA	BUZZER	12V AC/DC	125.63	
DIXL556	XC645CX	4	2 x NTC (86K*) or 4.20mA/0.5V - FOR DIGITAL SCROLL	BUZZER	12V AC/DC	174.75	
DIXL549	CW15	MULTI-CONNECTOR BLOCK WITH 1.5m CABLES FOR XC640C/XC642C/XC650C					13.09
DIXL551	CAB/CJ15	CABLE & CONNECTOR FOR 4-20mA OUTPUT (XC650C ONLY)					2.12
DIXL557	CWC15-KIT	MULTI-CONNECTOR WITH 1.5m CABLES FOR XC645CX ONLY					16.26

CW15 cable connector is pre-wired with 1.5m cables – essential for XC640/XC642C & XC650C.

\*5th relay on XC642C is for liquid injection.

\*\*XC650C can control both compressors and condenser fans, relays are configurable. Also has 4-20mA output for fan speed control.

Use DIXL908 transformer (5VA). For XC645CX use Copeland NTC 87K probes.

**PACK CONTROLLERS**

144 x 72mm Panel Mount and DIN mount



CODE	MODEL	NO. OF OUTPUTS	INPUTS (CONFIGURABLE BY PARAMETER)	MOUNT	ALARM TYPE	SUPPLY	(AJ) £ LIST EA
DIXL575	XC706M	6	1 x NTC or 4-20mA COMPRESSOR ONLY	144x72mm PANEL	BUZZER+RELAY	230V	307.42
DIXL580	XC807M	7*	2 x NTC or 4-20mA COMPRESSORS & CONDENSER FANS	144x72mm PANEL	BUZZER+RELAY	230V	325.61
DIXL585	XC811M	11*	2 x NTC or 4-20mA COMPRESSORS & CONDENSER FANS	144x72mm PANEL	BUZZER+RELAY	230V	373.42
DIXL587	XC660D	6	2 x NTC or 4-20mA / 0-5V COMPRESSORS & CONDENSER FANS	DIN	BUZZER	90-260V AC	169.89

\* XC807M outputs configurable as Max 7 compressors / Max 4 fans but total outputs cannot exceed 7

\* XC811M outputs configurable as Max 9 compressors / Max 6 fans but total outputs cannot exceed 11

**SPLIT PACK CONTROL**



CODE	MODEL	RELAY OUTPUTS	SUCTION CIRCUITS	DISCHARGE CIRCUITS	ANALOGUE INPUTS*	ANALOGUE OUTPUTS*	ALARM TYPE	SUPPLY	(AJ) £ LIST EA	
DIXL598	XC1008D	8	1	1	2	2	RELAY	24V	336.11	
DIXL599	XC1011D	11	2	2	4	4	RELAY	24V	369.06	
DIXL596	XC1015D	15	2	2	4	4	RELAY	24V	462.26	
DIXL597	VGC810	USER INTERFACE / KEYPAD FOR DIXL596/598/599								154.38

The XC1008D can control 1 x suction and 1 x discharge circuit + analogue outputs for speed control on each

The XC1011D and XC1015D can control 2 x suction and 2 x discharge circuits + analogue outputs for speed control on each

\*Analogue inputs / outputs are configurable by parameter. Inputs 4-20mA or 0-5V. Outputs 4-20mA or 0-10V

**SPEED CONTROL**



CODE	MODEL	CONTROL TYPE	LOAD	PHASE	INPUT	(AJ) £ LIST EA
DIXL820	XV105D	CONDENSER FANS (SPEED INCREASE ON TEMP. RISE)	1PH 2.5A	1	TEMPERATURE – USE NTC	48.52
DIXL825	XV105D	EVAPORATOR FANS (SPEED DECREASE ON TEMP. RISE)	1PH 2.5A	1	TEMPERATURE – USE NTC	48.52
DIXL830	XV105D	CONDENSER OR EVAPORATOR	1PH 2.5A	1	PRESSURE - 4-20mA	48.52

IMPORTANT: The XV340G relies on the driven fans to provide cooling for the heat sink.

Always check motor is suitable for speed control.

**ELECTRONIC EXPANSION VALVE DRIVERS**



CODE	MODEL	DESCRIPTION	TRANSDUCER INPUT	TEMP. INPUT	MAXIMUM LOAD	SUPPLY	(AJ) £ LIST EA
DIXL812	XEV12D	DRIVER FOR PULSED (ON/OFF) TYPE EEV'S	USE 4-20mA	USE PT1000	30W	230V AC	108.63
DIXL813	XEV22D	DRIVER FOR STEPPER TYPE EEV'S	USE 4-20mA	USE PT1000	0.33A/0.9A*	24V AC/DC	147.44
DIXL814	TF20D*	230/24V AC 20VA TRANSFORMER – DIN MOUNT	-	-	-	-	31.83

PT1000 probe – use DIXL985 or DIXL986. Pressure transducer – use DIXL562. See below.

\*XEV22D requires TF20D transformer. Maximum valve load when using this transformer is – Uni-Polar valves 0.33A, Bi-Polar valves 0.9A.

**TRANSFORMERS**



CODE	MODEL	INPUT	OUTPUT	RATING	SUITABILITY	(AK) £ LIST EA
DIXL900	TF3	230V AC	12V AC	3VA	FOR 1 x INSTRUMENT	4.01
DIXL902	TF3-UL	115V AC	12V AC	3VA	FOR 1 x INSTRUMENT	5.58
DIXL904	TF3	24V AC	12V AC	3VA	FOR 1 x INSTRUMENT	5.46
DIXL908	TF5	230V AC	12V AC	5VA	FOR 2 x INSTRUMENTS (or 1 x INSTRUMENT WITH DUAL DISPLAY*)	7.56
DIXL910	TF5	110V AC	12V AC	5VA	FOR 2 x INSTRUMENTS (or 1 x INSTRUMENT WITH DUAL DISPLAY*)	7.91
DIXL912	TF5	24V AC	12V AC	5VA	FOR 2 x INSTRUMENTS (or 1 x INSTRUMENT WITH DUAL DISPLAY*)	8.12

Some instruments such as XC440C/XC650C & HACCP controllers have a dual display. These require a transformer with a 5VA rating.





## TEMPERATURE SENSORS (PROBES)



CODE	MODEL	TYPE	CAP	TEMP. RANGE	CABLE LENGTH	(AK) £ LIST EA
DIXL950	S6	PTC – WATERPROOF – IP67	STAINLESS	-30/+80°C	2m	4.76
DIXL956	S6.S	PTC – WATERPROOF – IP67	STAINLESS	-50/+110°C	2m	6.02
DIXL957	S6.SH	PTC – HEATING APPLICATIONS	STAINLESS	MAX +150°C	2m	7.33
DIXL965	N6F2	NTC – IP67 – INSULATED FOR 230V*	PLASTIC	-30/+80°C	1.5m	4.91
DIXL967	NS6S	NTC – WATERPROOF – IP67	STAINLESS	-40/+110°C	2m	5.33
DIXL970	NG6	NTC – WATERPROOF – IP67 – ENCAPSULATED	PLASTIC	-40/+105°C	1.5m	3.32
DIXL971	NG6P	NTC – IMMERSION – IP68 – ENCAPSULATED	PLASTIC	-40/+110°C	1.5m	6.14
DIXL974	NT6-67	NTC – ADJUSTABLE PIPE MOUNTING	PIPE	-40/+110°C	1.5m	7.33
DIXL980	PT310	PT100 – 2 x WIRES	STAINLESS	-70/+500°C	2m	48.15
DIXL981	PT6	PT100 – 3 x WIRES	STAINLESS	-30/+80°C	2m	23.69
DIXL985	PMT6-67	PT1000 – SUITABLE FOR XEV VALVE DRIVER	PIPE	-50/+120°C	1.5m	10.67
DIXL308	NPC10IS	NTC – STAB TYPE INSERTION PROBE – STAINLESS HANDLE	STAINLESS	-40/+110°C	3m	44.65
DIXL309	SPC10IA	PTC – STAB TYPE INSERTION PROBE – STAINLESS HANDLE	STAINLESS	-55/+150°C	3m	60.35
DIXL491		PROBE EXTENSION CABLE			25m	10.50

\*Insulated for use with 230 volt models XT11S.

Note: Avoid power cables and other sources of interference, particularly when extending probe cables.

## HUMIDITY SENSOR



CODE	MODEL	TYPE	RANGE HUMIDITY %	OUTPUT	SUITABILITY	SUPPLY	(AK) £ LIST EA
DIXL940	XH20P	2 x WIRE	0-100%*	4-20mA	ALL INSTRUMENTS	FROM INSTRUMENT	100.39

## PRESSURE TRANSDUCERS



CODE	MODEL	TYPE	RANGE BAR	OUTPUT	FITTING	SUPPLY	(AK) £ LIST EA
DIXL560	PP07	2 x WIRE 4-20mA	-0.5 - 7.0	4-20mA	1/4 FLARE (M)	FROM INSTRUMENT	117.67
DIXL562	PP11	2 x WIRE 4-20mA	-0.5 - 11.0	4-20mA	1/4 FLARE (M)	FROM INSTRUMENT	117.67
DIXL570	PP30	2 x WIRE 4-20mA	0 - 30.0	4-20mA	1/4 FLARE (M)	FROM INSTRUMENT	117.67
DIXL571	PP50	2 x WIRE 4-20mA	0 - 50.0	4-20mA	1/4 FLARE (M)	FROM INSTRUMENT	117.67
DIXL572	PPR15	3 WIRE RATIOMETRIC 0-5V	0 - 15.0	0.5V	1/4 FLARE (F)	FROM INSTRUMENT	59.42
DIXL573	PPR30	3 WIRE RATIOMETRIC 0-5V	0 - 30.0	0.5V	1/4 FLARE (F)	FROM INSTRUMENT	59.42
DIXL574	PPR45	3 WIRE RATIOMETRIC 0-5V	0 - 45.0	0.5V	1/4 FLARE (F)	FROM INSTRUMENT	59.42

Ratiometric transducers are only suitable for Dixell instruments that accept a 0-5V input. Ratiometric transducers have a female flare fitting, others have male flare.

## WEB BASED MONITORING SYSTEMS

XWEB500



XWEB500D



CODE	MODEL	DESCRIPTION	MAX. POINTS MONITORED	(AM) £ LIST EA
DIXL846	XWEB300D	AUTOMATIC MONITORING UNIT FOR SMALL SITES – DIN MOUNT	6	390.37
DIXL836	XWEB300D	AUTOMATIC MONITORING UNIT FOR SMALL SITES – DIN MOUNT	18	458.35
DIXL837	XWEB500D	AUTOMATIC MONITORING UNIT FOR SMALL SITES – DIN MOUNT	36	736.45
DIXL853	XWEB500	AUTOMATIC MONITORING UNIT FOR SMALL/MEDIUM SITES	100	931.12
DIXL847	XWEB3000	FULL INTERNET BASED MONITORING UNIT FOR LARGE SITES	247	2,372.09
DIXL845	XWEB5000	SUPERVISORY MONITORING UNIT WITH SYSTEM INTERACTIVE FEATURES INCLUDING COMPRESSOR RACK OPTIMIZATION*	247	3,706.97

For use with Dixell RS485 compatible controllers. Full details on request.

All XWEB models use standard Web Browser software. Remote access via internet with any browser equipped PC.

\*Compressor rack optimization possible when used in conjunction with XC1008D and XC1015D pack controllers. Also available in XWEB500 to special order.

## MONITORING SYSTEM DATA & ALARM INPUT/OUTPUT MODULES



CODE	MODEL	FUNCTION	DISPLAY	SUPPLY	RS485 CONNECTION	(AM) £ LIST EA
DIXL861	XJM60D	CONFIGURABLE I/O MODULE – 6 x CHANNELS INPUTS = NTC/PTC/PT1000 TEMPERATURE PROBES, 4-20mA, 0-10V, 0-5V, DIGITAL AND PULSE OUTPUTS = 4 x RELAYS, 1 x ANALOGUE 4-20mA/0-10V	BUILT IN	24V AC	BUILT IN	154.65
DIXL595	TF10D	TRANSFORMER 230/24V AC 10VA				17.45

## MONITORING SYSTEM ACCESSORIES

CODE	MODEL	DESCRIPTION	FOR USE WITH	(AM) £ LIST EA
DIXL1552	XJ485	COMMS. MODULE FOR CONTROLLERS WITH EXTERNAL RS485 (INCL. CABLE)	CONTROLLERS	9.17
DIXL848	CAB/WEB/NET	CABLE FOR CONNECTING XWEB3000 TO A LAN	XWEB3000	22.00
DIXL849	CAB/WEB/PC	CABLE FOR CONNECTING XWEB3000 TO A PC	XWEB3000	17.88
DIXL877	-	MODEM KIT (FOR STANDARD ANALOGUE TELEPHONE LINE)	XWEB300/500 XWEB3000/5000	162.27

We recommend Belden 8772 or equivalent for the network cable. Avoid running near power cables and other sources of electrical noise. Run as a daisy chain without forming loops or spurs. Maintain correct polarity throughout entire network. Maximum length 1,000m.



**DATALOGGERS**



CODE	MODEL	DESCRIPTION	SUPPLY	(AM) £ LIST EA
DIXL806	XDL01	DATALOGGER BASE UNIT	-	90.48
DIXL807	XJDL40D	4 WAY PROBE MODULE FOR BASE UNIT*	230V AC	79.29
DIXL808	PW-DL	ADAPTER FOR CONNECTING SINGLE CONTROLLER TO BASE UNIT*	230V AC	40.21
DIXL809	BA6H	BATTERY BACK UP 1.2Ah – APPROX 6 HOURS	-	33.51

\*XDL01 Base Unit can be either connected to 1 x XJDL40D 4 way module or, via the PW-DL adapter, to 1x Dixell controller. XJDL04D inputs are 3 x NTC/Pt1000 + 1 x NTC/Pt1000/4-20mA.

**GAS LEAK MONITORS STAND ALONE**



CODE	MODEL	DESCRIPTION	GAS	SUPPLY	(BZ) £ LIST EA
GASD025	GD24	LEAK MONITOR IN IP21 HOUSING	*TO ORDER	24V	361.20
GASD026	GD230	LEAK MONITOR IN IP21 HOUSING	*TO ORDER	230V	361.20
GASD027	GS24	LEAK MONITOR IN IP54 HOUSING	*TO ORDER	24V	518.70
GASD028	GS230	LEAK MONITOR IN IP54 HOUSING	*TO ORDER	230V	518.70
GASD050	RM-HFC-832F	PATRESS BOX MOUNTING LEAK MONITOR FOR HOTEL / OFFICE ROOMS	R410A	24V	215.67
GASD070	GR24-MP-EC-NH3-100	LEAK MONITOR IN IP54 HOUSING - CONCENTRATIONS 0-100 PPM	NH3	24V	1,173.90
GASD071	GR24-MP-EC-NH3-1000	LEAK MONITOR IN IP54 HOUSING - CONCENTRATIONS 0-1000PPM	NH3	24V	1,173.90
GASD072	GR24-MP-EC-NH3-5000	LEAK MONITOR IN IP54 HOUSING - CONCENTRATIONS 0-5000PPM,	NH3	24V	1173.90

\*Please advise gas type at time of order. For RM-HFC-832F use a standard patress box (not supplied).

**GAS LEAK MONITORING PANELS & SENSORS**



GASD005	MPU-4C	MULTI-CHANNEL MONITORING PANEL FOR UP TO 4 X REMOTE SENSORS	AS SENSOR	230V	1,159.20
GASD007	MPU-6C	MULTI-CHANNEL MONITORING PANEL FOR UP TO 6 X REMOTE SENSORS	AS SENSOR	230V	1,415.40
GASD100	MP-D	REMOTE SENSOR IP21 HOUSING	*TO ORDER	FROM PANEL	174.30
GASD101	MP-DS	REMOTE SENSOR IP54 HOUSING	*TO ORDER	FROM PANEL	256.20
GASD102	MP-DR	REMOTE SENSOR - VENT LINE FITTING WITH BRASS SCREW CONNECTION	*TO ORDER	FROM PANEL	193.20
GASD150	MP-EC-NH3-100	REMOTE SENSOR IP54 HOUSING - CONCENTRATIONS 0-100 PPM	NH3	FROM PANEL	848.40
GASD151	MP-EC-NH3-1000	REMOTE SENSOR IP54 HOUSING - CONCENTRATIONS 0-1000PPM	NH3	FROM PANEL	848.40
GASD152	MP-EC-NH3-5000	REMOTE SENSOR IP54 HOUSING - CONCENTRATIONS 0-5000PPM	NH3	FROM PANEL	848.40

\*Please advise gas type at time of order  
Multi-Channel Infra-Red optical aspirated systems are also available for most gas types, please call to discuss your requirements.

**REX TIME CLOCKS**



Polar Rex

**DEFROST TIME CLOCK**

CODE	MODEL	DEFROST/DAY	FAN DELAY (MINS)	TERMINATION	(QA) £ LIST EA
REX105	POLAR REX KKT	1-12	1-60	TIME	57.90

**24HR TIME CLOCK**

CODE	MODEL	TYPE	MIN INTERVAL	STYLE	(QA) £ LIST EA
REX100	MICRO REX T31	24 HOUR	30 MINS	DIN RAIL	37.60

**FLASH COMPACT**



CODE	MODEL	TYPE	MINIMUM INTERVAL	RUNNING RESERVE	STYLE	(BZ) £ LIST EA
FLSH190	16009	24 HOUR	20 MINS	-	SLIMLINE	37.46
FLSH200	16022	24 HOUR	20 MINS	-	PLUG IN	39.15
FLSH210	16021	24 HOUR	20 MINS	72 HOUR	PLUG IN	52.88
FLSH220	16722	7 DAY	2 HOUR	-	PLUG IN	45.79
FLSH230	16721	7 DAY	2 HOUR	72 HOUR	PLUG IN	63.66

**FLASH DIGITAL**

FLSH125	123862	7 DAY	1 MIN	5 YEAR	2 CHANNEL	119.62
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## SERVICE REPLACEMENT THERMOSTATS



CODE	MODEL	APPLICATION	ALTERNATIVE MODEL	(DB) £ LIST EA
RAN010	VL1	COMPRESSOR REFRIGERATOR	VC1	7.00
RAN020	VL2	ELECTRIC ABSORPTION REFRIGERATOR	VA2	9.10
RAN030	VL3	FREEZER AND ICE CREAM CABINET	VF3	5.75
RAN040	VL4	COMP. REFRIGERATOR C/W PUSH BUTTON DEFROST	VP4	10.20
RAN050	VL5	FREEZER WITH STANDARD SIGNAL	VS5	10.72
RAN060	VL6	FREEZER WITH REVERSE SIGNAL	VR6	11.60
RAN070	VL7	BOTTLE AND BEVERAGE COOLER	VB7	6.35
RAN080	VL8	WINDOW AIR CONDITIONER	VW8	12.40
RAN090	VL9	TWO TEMPERATURE REFRIGERATOR	VT9	13.95
RAN100	VX-0	LARDER TYPE REFRIGERATOR	VX-0	9.35
RAN110	VTD9	TWO TEMP. REFRIGERATOR – ASSISTED DEFROST	VTD9	11.50
RAN120	VTD93	AS RAN110 BUT 3M CAPILLARY	-	11.75



## HBLT - WIRE LEVEL TRANSMITTER

HBLT-WIRE



CODE/MODEL	PROBE RANGE	CONNECTION (X)	VOLTAGE	(GM) £ LIST EA
HBLT-WIRE-X	300-4000MM	2,6	24V AC/DC	POA

ONE SENSOR - FITS NH3, HFC, CO2 - ON LAND OR SEA

## AMMONIA LEVEL TRANSMITTER

HBLT-A1 with bagraph



CODE/MODEL	PROBE RANGES AVAILABLE	CONNECTION (X)	VOLTAGE	(GM) £ LIST EA
HBLT-A1-***	280MM UP TO 3000MM	8	24V AC/DC	POA
HBLT-A1B-*** (BARGRAPH)	280MM UP TO 3000MM	8	24V AC/DC	POA
HBLT-A1-***U	6" UP TO 120"	2	24V AC/DC	POA
HBLT-A1B-***U (BARGRAPH)	6" UP TO 120"	2	24V AC/DC	POA

HBLT-A1 LENGTHS AVAILABLE - 280, 500, 800, 1200, 1500, 1700, 2200 and 3000mm  
HBLT-A1 (U) LENGTHS AVAILABLE - 6, 8, 12, 15.3, 19.2, 23.1, 30, 35, 45, 55, 65, 85, 105 and 120 inches

## SINGLE POINT SWITCHES

HBSR



HBSC2

HBLC-R-IP

CODE/MODEL	APPLICATION	CONNECTION (X)	VOLTAGE	(GM) £ LIST EA
HBSR-PNP/NC-X	REFRIGERANT	2,6	24V AC/DC	POA
HBSR-PNP/NO-X	REFRIGERANT	2,6	24V AC/DC	POA
HBLC-R-IP-X	LOW TEMP REFRIGERANT SENSOR	2	24V AC/DC	POA
HBSO-PNP/NC-X	OIL	1,2,5,6,7	24V AC/DC	POA
HBSO-PNP/NO-X	OIL	1,2,5,6,7	24V AC/DC	POA
HBSC2-PNP/NC-X	CO2	2,6	24V AC/DC	POA
HBSC2-PNP/NO-X	CO2	2,6	24V AC/DC	POA

## COMPRESSOR PROTECTION

HBCP ROD STYLE



CODE/MODEL	INSERT LENGTH/PIPE DIMENSIONS	CONNECTION (X)	VOLTAGE	(GM) £ LIST EA
HBCP-R-1.5-X	150 MM, FOR PIPE DIMENSIONS < 2"	2,6	24V AC/DC	POA
HBCP-R-3-X	300 MM, FOR PIPE DIMENSIONS > 2"	8,9	24V AC/DC	POA

## REFRIGERANT QUALITY SENSOR HBDX ROD STYLE



HBDX IN-LINE STYLE

CODE/MODEL	INSERT LENGTH/PIPE DIMENSIONS	CONNECTION (X)	VOLTAGE	(GM) £ LIST EA
HBDX-R-1.5-X (ROD STYLE)	150 MM, FOR PIPE DIMENSIONS < 2"	2,6	24V AC/DC	POA
HBDX-R-3-X (ROD STYLE)	300 MM, FOR PIPE DIMENSIONS > 2"	8,9	24V AC/DC	POA
HBDX-IN-DN** (IN LINE STYLE)	INSERT LENGTH 300MM	DN25, 40, 50 80 AND DN100	24V AC/DC	POA

### Thread types (x)

1 = 1/2" NPT      5 = 1/2" BSPP (G)      7 = 1 1/8" UNF      9 = 1" NPT  
2 = 3/4" NPT      6 = 3/4" BSPP      8 = 1" BSPP (G)

THE FULL RANGE OF HB PRODUCTS CAN BE FOUND ON OUR WEBSITE, FOR FURTHER INFORMATION ON APPLICATIONS OR SPECIFICATION THEN PLEASE CONSULT THE TECHNICAL DEPARTMENT

**UNIVERSAL FAN MOTORS**



CODE	MODEL	OUTPUT NO. WATTS	(PA) £ LIST EA
FMT023	BU5	5	8.47
FMT053	BU7/10	10	8.88
FMT063	BU16	16	10.42
FMT073	BU25	25	14.57
FMT083	BU34	34	14.84

Individually boxed motors. 10 watt may be used to replace 7 watt. Three tapped holes front and rear. Four corner bolts. Adjustable base mount.

**FAN BRACKETS**



CODE	MODEL	HEIGHT MM	(PA) £ LIST EA
FMB101	S56	56	0.98
FMB102	S72	72	0.98
FMB106	S84	84	1.19
FMB108	S109	109	2.07

**FAN BLADES**



CODE	DIAMETER		(PA) £ LIST EA
	MM	INCH	
FAN550	154	6	2.08
FAN555	170	7	2.22
FAN560	200	8	2.46
FAN565	230	9	2.90
FAN570	250	10	3.22
FAN575	300	12	5.52

**FAN BLADES  
ALUMINIUM BLOWERS**



CODE	DIAMETER		(PA) £ LIST EA
	MM	INCH	
FAN500	154	6	3.50
FAN505	170	7	3.87
FAN510	200	8	4.16
FAN515	230	9	4.85
FAN520	250	10	5.09
FAN525	300	12	5.52

**SUGGESTED  
COMBINATIONS**

Of motors, brackets and blades (suckers).

MOTOR		BRACKET		BLADE CODE	
CODE	WATTS	CODE	HEIGHT MM	CODE	DIAMETER
FMT017	5	FMB102	72	FAN555	170
FMT038	7	FMB102	72	FAN560	200
FMT047	10	FMB102	72	FAN565	230
FMT057	16	FMB106	84	FAN570	250
FMT066	25	FMB108	109	FAN575	300

## RING MOUNTED MOTOR ASSEMBLY – SUCKERS

– air over fan, over motor.



1,300 rpm 230v 1ph.  
painted steel rings, aluminium blades.

CODE	MODEL	BLADE DIAMETER MM	OUTPUT WATTS	(PA) £ LIST EA
FMR505	RM-6S	154	5	22.45
FMR510	RM-7S	172	5	22.66
FMR515	RM-8/5S	200	5	23.96
FMR518	RM-8/7S	200	7	24.81
FMR520	RM-9S	230	7	24.81
FMR525	RM-10S	250	10	25.31
FMR528	RM-10/16S	250	16	29.74
FMR530	RM-12/16S	300	16	35.40
FMR535	RM-12/25S	300	25	36.67
FMR538	RM-12/34S	300	34	38.55

## RING MOUNTED MOTOR ASSEMBLY – BLOWERS

– air over fan, over motor.



FMR506	RM-6B	154	5	22.45
FMR511	RM-7B	172	5	22.66
FMR516	RM-8B	200	5	23.96
FMR519	RM-8/7B	200	7	24.81
FMR521	RM-9B	230	7	24.81
FMR526	RM-10B	254	10	25.31
FMR529	RM-10/16B	254	16	29.74
FMR531	RM-12/16B	300	16	35.40
FMR536	RM-12/25B	300	25	36.67
FMR539	RM-12/34B	300	34	38.55

## UNIVERSAL FAN MOTORS



1,300 rpm 240V 1ph. Rotation anti-clockwise viewed from blade. 3-hole front and back mounting, 18mm base mount. Extended bolts to accept ring mount.

CODE	MODEL	OUTPUT WATTS	(PA) £ LIST EA
FMT017	RA-5	5	12.80
FMT038	RA-7	7	13.32
FMT047	RA-10	10	14.04
FMT057	RA-16	16	16.01
FMT066	RA-25	25	20.79
FMT078	RA-34	34	23.31

FMT067	RA-25L	25	27.03
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Special motors to suit certain Danfoss/Hubbard units.

## EXTERNAL ROTOR FAN MOTOR/BLADE/GUARD ASSEMBLIES



Supplied with run capacitor.

CODE	MODEL	BLADE DIA. (MM)	AIR VOLUME M <sub>3</sub> /h	RPM	INPUT		(PA) £ LIST EA
					W	A	
FMP010	C4M250SN	250	980	1,400	40	0.20	103.06
FMP015	C4M300SN	300	1,750	1,330	90	0.41	110.04
FMP025	C6M300SN	300	1,180	900	45	0.23	115.30
FMP028	C4M315S	315	2,100	1,350	110	0.50	120.94
FMP033	C4M350SN	350	2,650	1,320	120	0.57	128.50
FMP037	C4M350SN	350	2,650	1,350	140	0.65	132.50
FMP040	C6M350SN	350	1,800	720	60	0.30	124.02
FMP052	C4M400SN	400	3,000	1,300	130	0.58	135.25
FMP060	C6M400SN	400	2,050	870	65	0.28	132.74
FMP070	C6M450SN	450	3,000	870	100	0.45	144.98

Models shown are single phase and discharge through the guard ("suckers"). Three phase models, and opposite airflow on request.

**CROSS FLOW EMMEVI (TANGENTIAL) FANS**



**SINGLE IMPELLER**

CODE	MODEL	IMPELLER LENGTH MM	WATTS	(PF) £ LIST EA
FMC100	TGA-90	90	20	23.11
FMC103	TGA-120	120	20	22.87
FMC106	TGA-180	180	20	27.44
FMC109	TGA-240	240	20	32.03
FMC112	TGA-270	270	20	33.87
FMC115	TGA-300	300	30	36.16
FMC118	TGA-360	360	30	44.83
FMC121	TGA-420	420	30	51.17
FMC124	TGA-480	480	30	67.30

**DUAL IMPELLER**

FMC206	TGD-180	180	30	47.14
FMC209	TGD-240	240	30	51.18
FMC212	TGD-270	270	30	54.82
FMC215	TGD-300	300	30	59.48
FMC218	TGD-360	360	30	65.27
FMC219	TGD-420	420	30	70.81
FMC221	TGD-480	480	30	76.65

**OPEN FRAME**



Complete motor, blade, bracket assembly.

CODE	MODEL	BLADE DIAMETER MM	ABSORBED WATTS	(PA) £ LIST EA
FMX010	AX09	96	15	12.35
FMX030	AX010/5	100	15	13.95
FMX050	AX013	130	15	14.55
FMX080	AX015/B	154	20	15.70
FMX100	AX017/C	170	30	17.95

All blades aluminium except FMX010, 030 and 040 which are nylon. Height to motor centre 95mm.

**RING MOUNT**

with blade (sucker).

FMR005	MA15SX	100	14	29.95
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**OPEN FRAME 'FROST FREE'**

with blade (blower).

FMF100	NS10	102	10	11.45
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**SUNON®**

**AXIAL SQUARE FRAME FAN MOTOR ASSEMBLIES**



All 240 volt, complete with blade. Suitable for -10°C to +72°C Models ending:.

CODE	MODEL	SIZE	(PA) £ LIST EA
FMA 260	DP201A-2123HST	120 x 120 x 37mm	7.00
FMA 270	DP201AT-2122HST	120 x 120 x 25mm	8.50
FMA 060	SF23080A-2083HSL	80 x 80 x 38mm	8.05
FMA 605	A2-10	1m power lead	0.99

HST = Sleeve bearing, terminal connection.  
 HSL = Sleeve bearing, flying leads.  
 HBT = Ball bearing, terminal connections.  
 HBL = Ball bearing, flying leads.

# ebmpapst

## Q-RANGE MOTORS



5 watt to 34 watt 1,300rpm, 230v., 18mm and 26mm base mountings, 3-hole back and front mount.

CODE	MODEL	OUTPUT - NORMAL WATTS	(PZ) £ LIST EA
EBM010	M4Q45-BD01-75	5	11.99
EBM020	M4Q45-CA01-75	7	12.85
EBM030	M4Q45-CA03-75	10	14.65
EBM040	M4Q45-CF01-75	16	17.61
EBM050	M4Q45-EA01-75	25	20.20
EBM060	M4Q45-EF01-75	34	27.72

## AXIAL FAN/MOTOR SETS



CODE	MODEL	BLADE DIA. (MM)	SPEED	PH	(PB) £ LIST EA
EBM498	A2E 200-AF02-54	200	2-pole	1ph	131.11
EBM528	A4E 300-AA01-01	300	4-pole	1ph	154.89
EBM531	A4E 315-AC08-09	315	4-pole	1ph	151.70
EBM535	A4E 330-AB18-09	330	4-pole	1ph	154.78

## AXIAL FAN MOTORS WITH GUARD



EBM616	S4E 300-AP26-30	300	4-pole	1ph	156.36
EBM624	S4E 330-AP18-30	330	4-pole	1ph	162.62
EBM623	S4E 350-AP12-68	350	4-pole	1ph	180.75
EBM647	S4E 400-AQ12-21	400	4-pole	1ph	206.76
EBM653	S4E 450-AP01-01	450	4-pole	1ph	244.14

## CENTRIFUGAL BLOWERS

Backward curved, single inlet.



EBM733	R2S 133-AE17-05	133	2-pole	1ph	89.24
EBM746	R2S 133-AF50-18	133	2-pole	1ph	89.24
EBM749	R2S 175-AB56-01	175	2-pole	1ph	86.31
EBM745	R2E 190-A026-05	190	2-pole	1ph	90.74

## COMPACT RING MOUNTED MOTORS

Square, elliptical and round frames.

EBM860	W2S 130-AA03-01	130	2-pole	1ph	65.88
EBM865	W2E 142-BB01-01	142	2-pole	1ph	74.52
EBM864	W2E 143-AA09-01	143	2-pole	1ph	81.95
EBM870	W2E 200-HH38-01	200	2-pole	1ph	107.44

## AXIAL AC MOTORS

Square Frame (SF) and Strut (S) Mounted.



CODE	MODEL	FRAME (MM)	DEPTH (MM)	SUPPLY	(PB) £ LIST EA
PAP255	3656 (SF)	92	38	230v.1	26.66
PAP003	4650 N (SF)	120	38	230v.1	24.25
PAP004	4656 N (SF)	119	38	230v.1	29.69
PAP016	4656 TZ (S)	108 dia	37	230v.1	31.43
PAP005	4656 ZWR-903 (SF)	119	38	230v.1	34.20
PAP226	5656 S (SF)	135	38	230v.1	52.52
PAP275	5958 (SF)	127	38	230v.1	29.82
PAP303	8550 N (SF)	80	38	230v.1	23.84
PAP305	8556 N (SF)	80	38	230v.1	29.80
PAP451	9956 N (SF)	119	38	230v.1	31.87

### IMPORTANT NOTE

The models shown represent only a small selection of the total range available. For details on other EBM-Papst models, please call. A2E, A4E, S4E motors are supplied without capacitors which must be ordered separately. Some models may be subject to minimum order quantities as deemed necessary by the manufacturer.

## ZIEHL-ABEGG

### FB-RANGE AXIAL FAN MOTORS



350mm to 630mm dia.

CODE	MODEL	BLADE DIA. (MM)	SPEED	PH	(PC) £ LIST EA
ZHL259	FB035-4EK (107022)	350	4-pole	1ph	404.00
ZHL268	FB045-4EK (107023)	450	4-pole	1ph	434.00
ZHL267	FB045-VDK (101604)	450	4-4-pole	3ph	424.00
ZHL005	FB050-4EK (101634)	500	4-pole	1ph	384.00
ZHL277	FB050-VDK (120342)	500	4-4-pole	3ph	556.00
ZHL281	FB050-VDK (209083)	500	4-4-pole	3ph	549.00
ZHL007	FB056-VDK (101654)	560	4-4-pole	3ph	494.00
ZHL009	FB061-6EK (109785)	610	6-pole	1ph	402.00
ZHL010	FB061-6EK (124626)	610	6-pole	1ph	497.00
ZHL020	FB063-6EK (101680)	630	6-pole	1ph	424.00
ZHL030	FB063-8EK (101689)	630	8-pole	1ph	365.00
ZHL102	FB063-ADK (101687)	630	8-8-pole	3ph	548.00
ZHL132	FB063-SDK (210878)	630	6-6-pole	3ph	773.00

### FC-RANGE AXIAL FAN MOTORS

310mm to 1,250mm dia.

ZHL392	FC045-4EF (126644)	450	4-pole	1ph	580.00
ZHL413	FC056-4EQ (126610)	560	4-pole	1ph	732.00
ZHL414	FC056-VDA (135025)	560	4-4-pole	3ph	448.00
ZHL412	FC063-4DK (121601)	630	4-pole	3ph	987.00

### FE-RANGE AXIAL FAN MOTORS

310mm to 1,000mm dia.

ZHL352	FE045-4EQ (132141)	450	4-pole	1ph	585.00
ZHL293	FE050-4EA (108307)	500	4-pole	1ph	410.00
ZHL301	FE063-6EA (122706)	630	6-pole	1ph	676.00
ZHL190	FE063-SDA (122745)	630	6-6-pole	3ph	522.00
ZHL308	FE080-ADA (121159)	800	8-8-pole	3ph	1,079.00
ZHL309	FE080-ADA (122871)	800	8-8-pole	3ph	1,136.00
ZHL307	FE080-SDA (120816)	800	6-6-pole	3ph	841.00
ZHL323	FE091-SDQ (106860)	910	6-6-pole	3ph	1,689.00

#### POLE SPEEDS Synchronous Motor Speeds

2-pole = 3,000 rpm  
4-pole = 1,500 rpm

6-pole = 1,000 rpm  
8-pole = 750 rpm

10-pole = 600 rpm  
12-pole = 500 rpm

14-pole = 430 rpm  
16-pole = 375 rpm

#### IMPORTANT NOTE

The models shown represent only a small selection of the total range available. For details on other Ziehl-Abegg models, please contact us. Some models may be subject to minimum order quantities as deemed necessary by the manufacturer.

## CONTACTORS AND OVERLOADS



Mini contactor

CODE	MODEL	TYPE	RATING (A)	SUITABILITY	(QA) £ LIST EA
COND115	LC1 MINI	CONTACTOR	6A (AC3)	UP TO 1/2 HP 1ph (ACC)	19.97
COND125	LC1 MINI	CONTACTOR	9A (AC3)	UP TO 1 HP 1ph (ACC)	21.20
CON794	CE15CNC3K	CONTACTOR	12A (AC3)	UP TO MT64 (MANEUROP)	56.70
CON798	CE15DN3K	CONTACTOR	16A (AC3)	UP TO MT100 (MANEUROP)	63.20
CON800	CE15EN3K	CONTACTOR	23A (AC3)	UP TO MT160 (MANEUROP)	87.70
CON848	C316FNA3M	OVERLOAD RELAY	4.5-6.5A	UP TO MT36 3ph (MANEUROP)	50.76
CON850	C316FNA3M	OVERLOAD RELAY	6.0-8.5A	MT40-50 3ph (MANEUROP)	30.00
CON854	C316FNA3Q	OVERLOAD RELAY	10.0-14.0A	MT72-80 3ph (MANEUROP)	36.00
CON856	C316FNA3R	OVERLOAD RELAY	13.0-19.0A	MT100-125 3ph (MANEUROP)	36.00
CON858	C316FNA3S	OVERLOAD RELAY	18.0-24.0A	MT144-160 3ph (MANEUROP)	42.00
CON870	C316KNA3A	OVERLOAD RELAY	18.0-25A	MT160 3ph (MANEUROP)	65.00

## RELAYS, OVERLOADS AND CAPACITORS

Other capacitors available on request.

CODE	MODEL	DESCRIPTION	(RJ) £ LIST EA
ELTR105	ICG-220	UNIVERSAL RELAY 1/12 TO 1/2 HP	4.85
ELTR115	PR-90	UNIVERSAL RELAY 1/2 TO 5 HP	20.20
ELTR110	PO-230	PUSH ON RELAY 1/12 TO 1/2 HP	4.55
ELTR145	RO-42	RELAY/OVERLOAD 1/4 TO 1/3 HP	9.50
ELTR150	RO-62	RELAY/OVERLOAD 1/6 TO 1/5 HP	9.50
ELTR120	PRO-42	PUSH-ON RELAY/OVERLOAD 1/4 TO 1/3 HP	9.50
ELTR125	PRO-62	PUSH-ON RELAY/OVERLOAD 1/6 TO 1/5 HP	9.50
ELTR135	RCO-420	RELAY/CAPACITOR/OVERLOAD 1/4 TO 1/3 HP	14.50
ELTR140	RCO-620	RELAY/CAPACITOR/OVERLOAD 1/6 TO 1/5 HP	14.50
ELTR252		CAPACITOR 2 UF 415V	2.50
ELTR254		CAPACITOR 3 UF 440V	2.50
ELTR258		CAPACITOR 5 UF 450V	2.90
ELTR262		CAPACITOR 10 UF 450V	3.90
ELTR266		CAPACITOR 16 UF 450V	4.85
ELTR268		CAPACITOR 20 UF 450V	6.00
ELTR270		CAPACITOR 25 UF 450V	7.75
ELTR300		CAPACITOR 47-56 UF 250V	5.00
ELTR302		CAPACITOR 51-68 UF 280V	5.30
ELTR304		CAPACITOR 80-100 UF 280V	6.80
ELTR306		CAPACITOR 108-130 UF 280V	7.60
ELTR308		CAPACITOR 130-156 UF 260V	8.55
ELTR310		CAPACITOR 161-193 UF 280V	9.45
ELTR312		CAPACITOR 216-260 UF 250V	11.75

## CONNECTORS AND TAPE

ELTR905	STRIP 10	10 WAY STRIP CONNECTOR	2.45
ELTR907	STRIP 15	15 WAY STRIP CONNECTOR	2.70
ELTR909	STRIP 30	30 WAY STRIP CONNECTOR	5.25
ELTR949	1/2" PVC	1/2" INSULATION TAPE	1.00
ELTR950	3/4" PVC	3/4" INSULATION TAPE	1.10
ELTR951	1" PVC	1" INSULATION TAPE	1.85
ELTR952	2" PVC	2" INSULATION TAPE	2.50

## HEATED CONDENSATE TRAYS

ELTR805	30-220	CONDENSATE TRAY 0.88 LITRE (31oz) CAPACITY	29.31
ELTR807	31-220	CONDENSATE TRAY 1.30 LITRE (46oz) CAPACITY	33.65
ELTR808	70-220	CONDENSATE TRAY 1.30 LITRE (46oz) SELF REGULATING	64.63
ELTR810	75-220	CONDENSATE TRAY 2.10 LITRE (75oz) CAPACITY	65.00

## CABLE TIES

CODE	DESCRIPTION	(QA) £ LIST EA
BRAK782	140 x 3.6MM BLACK (100)	1.40
BRAK783	120 x 4.8MM BLACK (100)	2.00
BRAK784	200 x 4.8MM BLACK (100)	3.65



**ISOLATORS**



Complete with enclosure and facility to lock-off.

CODE	TYPE	RATING (A)	(QA) £ LIST EA
CON305	3 POLE, ENCLOSURE IP56	20	20.16
CON303	3 POLE, ENCLOSURE IP56	32	26.36
CON300	6 POLE, ENCLOSURE IP56	20	23.18
CON301	8 POLE, ENCLOSURE IP56	20	25.35
CON302	8 POLE, ENCLOSURE IP55	32	53.60
CON306	6 POLE + 1 AUXILIARY, IP65	40	50.66

**DRAIN LINE HEATERS**

Suitable for evaporator drain lines to -60°C.



CODE	TYPE	LENGTH	WATTS	VOLTAGE	(QA) £ LIST EA
HEAT001	DRAIN LINE	1m	50	MAINS	12.80
HEAT002	DRAIN LINE	2m	100	MAINS	14.75
HEAT003	DRAIN LINE	3m	150	MAINS	18.00
HEAT004	DRAIN LINE	4m	200	MAINS	18.50
HEAT005	DRAIN LINE	5m	250	MAINS	24.50
HEAT006	DRAIN LINE	6m	300	MAINS	27.00

Longer heaters also available. Heaters must only be on during defrost cycle.

**CRANKCASE HEATERS**

Wrap around type.

CODE	MODEL	DESCRIPTION	VOLTAGE	(QA) £ LIST EA
HEAT101	FCH-20	40 WATT WRAP AROUND HEATER	MAINS	24.30
HEAT111	FCH-30	45 WATT WRAP AROUND HEATER	MAINS	25.70
HEAT121	FCH-40	55 WATT WRAP AROUND HEATER	MAINS	26.10
HEAT130	FCH-50	65 WATT WRAP AROUND HEATER	MAINS	27.20
HEAT131	FCH-60	75 WATT WRAP AROUND HEATER	MAINS	31.63



**CONDENSATE PUMPS**



CODE	PART NO.	NOMINAL CAPACITY (LITRES/HR)	CHECK VALVE	TYPE	(ZK) £ LIST EA
PUMP005	VCC-20S	294	FITTED	LOW PROFILE MODEL	79.77
PUMP006	PH-2L	300	FITTED	LOW PROFILE MODEL	35.17
PUMP010	VCMA-20S	294	FITTED	STANDARD MODEL	70.56
PUMP015	VCL-24S	900	FITTED	HIGH CAPACITY MODEL	104.08
PUMP018	VCL-45S	1,560	EXTRA	HIGH CAPACITY MODEL	305.40
PUMP021	VCMA-10	266	FITTED	ECONOMY STD MODEL	59.53
PUMP310	PVC HOSE 1/4" ID x 30m REINFORCED - CLEAR				10.21
PUMP320	PVC HOSE 3/8" ID x 30m REINFORCED - CLEAR				14.15
PUMP330	PVC HOSE 1/2" ID x 30m REINFORCED - CLEAR				16.20
PUMP340	PVC HOSE 5/8" ID x 30m REINFORCED - CLEAR				21.87

For other pumps see our Air Conditioning price list. Hose also available in black.

**ASPEN COLD CABINET PUMPS**



CODE	MODEL	NOMINAL CAPACITY (LITRES/HR)	MAX DISCHARGE HEAD (METRES)	TYPE	(ZK) £ LIST EA
PUMP273	ERRP	225	35	CABINET PUMP - ECONOMY	199.50
PUMP273L	ERRP-L	190	21	CABINET PUMP - LOWPROFILE	179.50
PUMP274	SRRP	225	35	CABINET PUMP - STAINLESS STEEL	302.00

All models top inlet; side inlet on request.

## ULTRA FLEXIBLE REFRIGERATION HOSES



Suitable for HFC (including R410A) HCFC, CO2 and R290 refrigerants to UNI EN1736:2009. Other fittings available on request. Quadra-2 starter kit also available.



XBA02C



XCA02C

## QUADRA HOSE

CODE	MODEL	ID (MM)	COLOUR	LENGTH (M)	MWP BAR	TEMP °C	(FB) £ LIST EA
HOSE001	0780C	2.0	ORANGE	50	60	-45 TO +130	166.80
HOSE002	0780BC	2.0	BLACK	50	60	-45 TO +130	166.80
HOSE016	0789C	4.0	ORANGE	50	60	-45 TO +130	195.45
HOSE017	0789BC	4.0	BLACK	50	60	-45 TO +130	195.45
HOSE150	0786K	6.0	ORANGE	10	60	-45 TO +130	53.60
HOSE152	0786BK	6.0	BLACK	10	60	-45 TO +130	53.60

## QUADRA FITTINGS - CRIMPED - FOR 2mm (0780C)

CODE	MODEL	DESCRIPTION	(FC) £ LIST EA
HOFT016	XBA02C	1/4" FEMALE FLARE STRAIGHT CONNECTOR (WITH GASKET)	2.35
HOFT017	XBB02C	AS HOFT016 BUT WITH SCRAEDER PIN (WITH GASKET)	2.74
HOFT018	WDN22C	1/4" MALE FLARE CONNECTOR	4.87
HOFT015	XCA02C	1/4" FEMALE FLARE 90° ELBOW (WITH GASKET)	5.78
HOFT013	WPB0C1	TEE, CRIMP ON ALL ARMS	8.47
HOFT011	XPB0C2	TEE, 2 x CRIMP, 1/4 FEMALE FLARE BRANCH (WITH GASKET)	8.61

## QUADRA FITTINGS - CRIMPED - FOR 4mm (0789C)

HOFT024	XBA02M	1/4" FEMALE FLARE STRAIGHT CONNECTOR (WITH GASKET)	2.74
HOFT026	XCA02M	1/4" FEMALE FLARE 90° ELBOW (WITH GASKET)	7.26
HOFT030	WBA04M	3/8" FEMALE FLARE STRAIGHT CONNECTOR	5.04
HOFT032	WCA02M	3/8" FEMALE FLARE 90° ELBOW	10.15
HOFT034	WPBOM1	TEE, CRIMP ON ALL ARMS	10.90

## QUADRA FITTINGS - RE-USABLE - FOR 4mm (0789C)

HOFT020	XIA02M	1/4" FEMALE FLARE STRAIGHT CONNECTOR (WITH GASKET)	7.35
HOFT022	XJA02M	1/4" FEMALE FLARE 90° ELBOW (WITH GASKET)	11.05

## QUADRA FITTINGS - CRIMPED - FOR 6mm (0786K)

HOFT200	KBA02N	1/4" FEMALE FLARE STRAIGHT CONNECTOR	4.85
HOFT202	KCA02N	1/4" FEMALE FLARE 90° ELBOW	9.01
HOFT204	KBA04N	3/8" FEMALE FLARE STRAIGHT CONNECTOR	6.91
HOFT206	KCA04N	3/8" FEMALE FLARE 90° ELBOW	14.81

## QUADRA FITTINGS - ACCESSORIES

HOFT019	RTD2Z1	SCHRAEDER VALVE OPENING PIN FOR HOFT016	0.51
LFFT401	WRP502	COPPER GASKET FOR 1/4" FEMALE FLARE	0.26
LFFT403	WRP504	COPPER GASKET FOR 3/8" FEMALE FLARE	0.48

## QUADRA TOOLS

CODE	MODEL	DESCRIPTION	(FB) £ LIST EA
HOPK040	RXA007	HAND PLIER FOR QUADRA 2MM	148.05
HOPK050	RXA005	HYDRAULIC PLIER FOR QUADRA 4MM & 6MM	1,429.89
HOPK060	Q-CRIMP	BENCH CRIMPERS QUADRA 2MM, 4MM & 6MM (COMPRESSED AIR)	2,453.72
HOPK020	RXA004	HOSE CUTTING TOOL	13.88

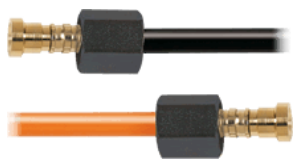
## QUADRA PRE-ASSEMBLED HOSES

CODE	MODEL	LENGTH (MM)	ID (MM)	FITTINGS (1/4" FEM FLARE)	(FB) £ LIST EA
HOSP050	CAF030	300	4	2 x STRAIGHT	6.83
HOSP055	CAF050	500	4	2 x STRAIGHT	7.63
HOSP060	CAF060	600	4	2 x STRAIGHT	8.03
HOSP065	CAF100	1,000	4	2 x STRAIGHT	9.67
HOSP070	CAF150	1,500	4	2 x STRAIGHT	11.74
HOSP075	CAF200	2,000	4	2 x STRAIGHT	13.81
HOSP110	CAG050	500	4	1 x STRAIGHT, 1 x 90°	11.67
HOSP120	CAG100	1,000	4	1 x STRAIGHT, 1 x 90°	13.86
HOSP125	CAG150	1,500	4	1 x STRAIGHT, 1 x 90°	16.03
HOSP160	CAH050	500	4	2 x 90°	15.30
HOSP170	CAH100	1,000	4	2 x 90°	17.48

Other lengths, combinations and sizes on request. Also zero vibration eliminators and infinity hoses.



Hand pliers



CAF

**FLEXIBLE PRESSURE HOSES**



285 suitable for R404A, R134a and R22.

**PARKER 285 HOSE AND FITTINGS – RE-USEABLE**

CODE	MODEL	DESCRIPTION	(AA) £ LIST EA
HPAR201	285-4	3/16" ID HOSE – 5 METRES	71.10
HPAR205	285-4	3/16" ID HOSE – 15 METRES	216.80
HPAR300	20621-4-4R	1/4" FL STRAIGHT CONNECTOR FOR 3/16" HOSE	5.51
HPAR340	23921-4-4R	1/4" FL 90 CONNECTOR FOR 3/16" HOSE	5.72
HPAR210	285-6	5/16" ID HOSE – 5 METRES	72.85
HPAR305	20621-6-6R	3/8" FL STRAIGHT CONNECTOR FOR 5/16" HOSE	7.80
HPAR345	23921-6-6R	3/8" FL 90 CONNECTOR FOR 5/16" HOSE	7.80
HPAR220	285-8	13/32" ID HOSE – 5 METRES	74.35
HPAR310	20621-8-8R	1/2" FL STRAIGHT CONNECTOR FOR 13/32" HOSE	6.00
HPAR350	23921-8-8R	1/2" FL 90 CONNECTOR FOR 13/32" HOSE	6.93
HPAR230	285-10	1/2" ID HOSE – 5 METRES	87.35
HPAR315	20621-10-10	5/8" FL STRAIGHT CONNECTOR FOR 1/2" HOSE	9.34
HPAR355	23921-10-10	5/8" FL 90 CONNECTOR FOR 1/2" HOSE	10.34
HPAR240	285-12	5/8" ID HOSE – 5 METRES	99.10
HPAR320	20821-12-12	3/4" FL STRAIGHT CONNECTOR FOR 5/8" HOSE	10.89
HPAR360	27921-12-12	3/4" FL 90 CONNECTOR FOR 5/8" HOSE	15.15

To SAE J51 Type D.

**COMPRESSOR OIL**



CODE	TYPE	BRAND	ISO GRADE	APPLICATION	LITRE	(QA) £ LIST EA
OIL010	ESTER ISO 32	HQ	32	HFC	1	20.40
OIL020	ESTER ISO 68	HQ	68	HFC	1	21.60
MOB010	ESTER EAL 22	MOBIL	22	HFC	5	111.93
MOB030	ESTER EAL 32	MOBIL	32	HFC	5	111.93
MOB040	ESTER EAL 68	MOBIL	68	HFC	5	111.93
MIN005	MINERAL 3GS	SUNISO	30	R22, R12, R502	4	20.84
MIN010	MINERAL 4GS	SUNISO	56	R22, R12, R502	4	20.84

For Maneurop oils see page 14.

**VALUE RANGE OF TOOLS**

TF-VE260N



TF-VRR24L

TF-VES100B



TF-VMG-R134A



TF-DDF-V2

CODE	MODEL	DESCRIPTION	(QH) £ LIST EA
TLQ906	TF-VE260N	VACUUM PUMP 2 STAGE 6 CFM (170 L/MIN) 230V	180.00
TLQ908	TF-VE260ND	VACUUM PUMP 2 STAGE 6 CFM (170 L/MIN) DUAL 220/110 VOLTS	225.00
TLQ910	TF-HPAV	VACUUM PUMP OIL 0.33 LITRES	2.85
TLQ920	TF-VRR24L	MINI RECOVERY UNIT 1 HP: HFC, HCFC, CFC	630.00
TLQ930	TF-VES100B	CHARGING & RECOVERY SCALES 100KG PROGRAMABLE, INCL. CASE	180.00
TLQ935	TF-VMG-2-R134A	MANIFOLD, GAUGES & LINES R134A/404A/22 INCL. CASE	59.50
TLQ937	TF-VMG-2-R410A	MANIFOLD, GAUGES & LINES R410A/407C/22/134a INCL. CASE	85.00
TLQ951	TF-VFT808IS	FLARING TOOL SET 3/16" – 3/4" WITH TUBE CUTTER & CASE	45.00
TLQ953	TF-VET19F	ELECTRIC FLARING TOOL 1/4" – 3/4" INCL. CASE	235.00
TLQ956	TF-VTC19	MINI TUBE CUTTER 1/8" – 3/4"	3.85
TLQ959	TF-VTC28B	TUBE CUTTER 1/8" – 1.1/8"	9.45
TLQ962	TF-VTC42	TUBE CUTTER 1/4" – 1.5/8"	17.25
TLQ970	TF-100BP	TUBE EXPANDER 3/8" – 1.1/8" WITH DEBURRER AND CASE	201.50
TLQ995	TF-DDF-V2	LEAK DETECTOR FOR HFC, HCFC, CFC REFRIGERANTS, INCL. CASE	65.00

CODE	DESCRIPTION	(QA) £ LIST EA
ELTR990	ADAPTOR 2 PIN EUROPEAN PLUG TO 3 PIN UK PLUG	2.50

## SWAGING TOOLS



CODE	PART NO.	SIZE	DESCRIPTION	(QA) £ LIST EA
TLT155	195SA	1/4", 3/8", 1/2" AND 5/8"	FLARING BAR WITH FOUR PUNCHES	97.91
TLT290	275FS	1/8" TO 3/4" INCLUSIVE	FLARING & SCREW TYPE SWAGING KIT	164.78
TLT009	SP-95	1/4"- 5/8"	ALL IN ONE SWAGING PUNCH	9.54

## FLARING TOOLS



TLQ951	TF-VFT8081S	3/16" TO 3/4" INCLUSIVE	TEDDINGTON SET INC. TUBE CUTTER & CASE	45.00
TLQ953	TF-VET19F	1/4" TO 3/4" INCLUSIVE	TEDDINGTON ELECTRIC FLARING TOOL INC. CASE	235.00
TLT181	195FC	3/16" TO 5/8" INCLUSIVE	STANDARD SEVEN SIZE FLARING TOOL	60.20
TLT195	300FB	3/16" TO 5/8" INCLUSIVE	TOOL FOR HIGH STRENGTH FLARES	94.77
TLT290	275FS	1/8" TO 3/4" INCLUSIVE	FLARING TOOL & SCREW TYPE SWAGER	164.78

## BLENDING SPRINGS



TLT050	102F04	BENDS 1/4" TUBE	INTERNAL BENDING SPRING	4.36
TLT052	102F06	BENDS 3/8" TUBE	INTERNAL BENDING SPRING	5.05
TLT054	102F08	BENDS 1/2" TUBE	INTERNAL BENDING SPRING	6.27
TLT056	102F10	BENDS 5/8" TUBE	INTERNAL BENDING SPRING	6.94
TLT058	102F12	BENDS 3/4" TUBE	INTERNAL BENDING SPRING	6.57

## STRAIGHT HAND BENDERS



TLT134	364FHA04	BENDS 1/4" TUBE	IMPERIAL HAND BENDER	76.88
TLT136	364FHA06	BENDS 3/8" TUBE	IMPERIAL HAND BENDER	85.56
TLT138	364FHA08	BENDS 1/2" TUBE	IMPERIAL HAND BENDER	109.32
TLT140	364FHA10	BENDS 5/8" TUBE	IMPERIAL HAND BENDER	162.08
TLT142	364FHA12	BENDS 3/4" TUBE	IMPERIAL HAND BENDER	182.80

## MULTI SIZE BENDERS

CODE	PART NO.	SIZE	DESCRIPTION	(QA) £ LIST EA
TLQ636	TTB-1	BENDS 1/4", 5/16", 3/8" TUBE	PLASTIC TUBE BENDER	15.00
TLR120	9.0614	BENDS 1/2", 5/8", 3/4", 7/8" TUBE	METAL TUBE BENDER	82.36

## HAND HYDRAULIC BENDERS



TLT130	HB251	*BENDS 3/8" TO 7/8" INCLUSIVE	HANDTYPE CROSSBOW BENDER	462.98
TLT132	HB451	*BENDS 1/4" TO 7/8" INCLUSIVE	HYDRAULIC CROSSBOW BENDER	621.38

\*Half hard and soft copper

## TUBE CUTTERS



TLT010	TC1000	CUTS 1/8" TO 1.1/8" TUBE	IMPERIAL STANDARD TUBE CUTTER	35.66
TLT013	TC1050	CUTS 1/8" TO 5/8" TUBE	MINI TUBE CUTTER	35.66
TLQ956	TF-VTC19	CUTS 1/8" TO 3/4" TUBE	TEDDINGTON MINI CUTTER	3.85
TLQ959	TF-VTC28B	CUTS 1/8" TO 1.1/8" TUBE	TEDDINGTON CUTTER	9.45
TLQ962	TF-VTC42	CUTS 1/4" TO 1.5/8" TUBE	TEDDINGTON CUTTER	17.25

## TUBE EXPANDERS



TE-6 SET

TLQ970	TF-100BP	3/8" TO 1.1/8" TUBE	TEDDINGTON SET INCL. CASE & DEBURRER	201.50
TLT361	TE-7	3/8" TO 1.3/8" TUBE	TUBE EXP. SET, SEVEN HEADS & CARRY CASE	561.88
TLT120	TE-6-01	SUITS ALL HEADS	EXPANDER TOOL ONLY	135.89
TLT121	H-3/8"	3/8" TUBE	HEAD ONLY	70.32
TLT122	H-1/2"	1/2" TUBE	HEAD ONLY	70.32
TLT123	H-5/8"	5/8" TUBE	HEAD ONLY	70.32
TLT124	H-3/4"	3/4" TUBE	HEAD ONLY	70.32
TLT125	H-7/8"	7/8" TUBE	HEAD ONLY	70.32
TLT126	H-1.1/8"	1.1/8" TUBE	HEAD ONLY	118.25
TLT127	H-1.3/8"	1.3/8" TUBE	HEAD ONLY	155.18
TLT128	H-1.5/8"	1.5/8" TUBE	HEAD ONLY	155.18

MANIFOLDS



CODE	PART NO.	DESCRIPTION	(QA) £ LIST EA
TLQ935	TF-VMG-2-R134A	TEDDINGTON 2 WAY MANIFOLD SET R134A/404A/22 INCL. CASE & LINES	59.50
TLQ937	TF-VMG-2-R410A	TEDDINGTON 2 WAY MANIFOLD SET R410A/407C/22/134a INCL. CASE & LINES	85.00

CODE	PART NO.	CONNECTION	DESCRIPTION	(QA) £ LIST EA
TLQ41652	41652	2 x R410A	2 WAY MANIFOLD WITH GAUGES R410A	73.92
TLQ41332	41332	2 x 1/4" NPT	2 WAY MANIFOLD WITH GAUGES R134a/404a/407C	57.60
TLQ46190	BRUTE	4 x 1/4" NPT	4 WAY MANIFOLD WITH GAUGES R134a/404A/407C	160.60
TLT412	QCS	1/4 FL x 5/16"	FEM R410A MANIFOLD ADAPTOR – STRAIGHT	8.86
TLT413	QCA	1/4 FL x 5/16"	FEM R410A MANIFOLD ADAPTOR – ELBOW	8.00

\*\*Please note – all above supplied without hoses unless indicated.

CHARGING HOSES



CODE	PART NO.	SIZE	DESCRIPTION	(QA) £ LIST EA
TLT470	E303FT36	36" SET	BLUE, RED, YELLOW STANDARD HOSE SET	34.09
TLT475	E303FT72	72" SET	BLUE, RED, YELLOW STANDARD HOSE SET	49.32
TLT473	E336FTY	36" YELLOW	STANDARD HOSE	11.48
TLT480	HDA36Y	36" YELLOW	HEAVY DUTY HOSE – R404A, R410A, R134a, R22	18.01
TLT471	E336FTB	36" BLUE	STANDARD HOSE	11.48
TLT481	HDA36B	36" BLUE	HEAVY DUTY HOSE – R404A, R410A, R134a, R22	18.01
TLT472	E336FTR	36" RED	STANDARD HOSE	11.48
TLT482	HDA36R	36" RED	HEAVY DUTY HOSE – R404A, R410A, R134a, R22	18.01
TLT485	3HDA	36" SET	HEAVY DUTY HOSE – SET OF 3 x 36" R404A, R410A, R134a, R22	52.43
TLT487	3HDCA	36" SET	SET OF 3 x 36" – R410A	56.01
TLQ21983	RYB	36" SET	YELLOW JACKET BLUE, RED, YELLOW HOSES SET	38.48
TLQ21986	RYB	72" SET	YELLOW JACKET BLUE, RED, YELLOW HOSE SET	56.95
TLT486	3HDA	72" SET	HEAVY DUTY HOSE – SET OF 3 x 72" – R404A, R410A, R134a, R22	87.57
TLT489	3HDCA	72" SET	SET OF 3 x 72" – R410A	89.43
TLS329	40083	1/4"	HOSE GASKET 1/4" (PACKET OF SIX)	1.89
TLS350	10234	1/4" MFL x 1/4" FFL	QUICK SEAL ADAPTOR (STOPS RELEASE FROM HOSE)	12.31
TLS354	40560A	1/4" MFL x 1/4" FFL	CHARGING HOSE COUPLER C/W DEPRESSOR-STRAIGHT	5.98
TLT700	16C	1/4" MFL x 1/4" FFL	QUICK RELEASE HOSE COUPLER-STRAIGHT	26.13
TLT702	17C	1/4" MFL x 1/4" FFL	QUICK RELEASE HOSE COUPLER-ELBOW	30.81
TLT706	26C	R410A	QUICK RELEASE HOSE COUPLER-STRAIGHT	29.39
TLT705	27C	R410A	QUICK RELEASE HOSE COUPLER-ELBOW	34.94
TLQ19020	19020	1/4"	HOSE GASKETS (PACK OF TEN)	4.10
TLT479	E560	60"	VACUUM HOSE – YELLOW 3/8"	32.58

PRESSURE & COMPOUND GAUGES



TLQ49063	49063	68mm	PRESSURE GAUGE – R134a/R404A/R407C (BAR)	17.50
TLQ49064	49064	68mm	COMPOUND GAUGE – R134a/R404A/R407 (BAR)	17.50
TLT418	823BPC410	80mm	PRESSURE GAUGE – R410A	16.52
TLT419	825BPC410	80mm	COMPOUND GAUGE – R410A	16.52
TLT440	823BPC	80mm	PRESSURE GAUGE BAR/PSI/°C R12/22/502 (0-31 BAR)	16.52
TLT445	825BPC	80mm	COMPOUND GAUGE BAR/PSI/°C R12/22/502 (VAC TO 8 BAR)	16.52
TLT446	823BC/247	80mm	PRESSURE GAUGE BAR/°C R134a/R404a/R22/R407c	16.52
TLT447	825BC/247	80mm	COMPOUND GAUGE BAR/°C R134a/R404a/R22/R407c	16.52
TLT460	623BPC	60mm	PRESSURE GAUGE BAR/PSI/°C	10.28
TLT465	625BPC	60mm	COMPOUND GAUGE BAR/PSI/°C	10.28

VACUUM GAUGES

TLT699	827-VRP	80mm DIAL	RELATIVE VACUUM GAUGE 1,000 – 0mbar	13.88
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VACUUM PUMPS



TF-VE260N

CODE	PART NO.	SIZE	DESCRIPTION	(QA) £ LIST EA
TLQ906	TF-VE260N	6 CFM TWO STAGE	TEDDINGTON VACUUM PUMP (170 L/MIN)	180.00
TLQ908	TF-VE260ND	6 CFM TWO STAGE	TEDDINGTON VACUUM PUMP (170 L/MIN) DUAL VOLTAGE	225.00
TLQ93567	YJ93567	6 CFM TWO STAGE	VACUUM PUMP	504.00
TLQ910	TF-HPAV	0.33 LITRES	VACUUM PUMP OIL – TEDDINGTON	2.85
TLS600	13203	U.S. QUART (0.95 LITRES)	VACUUM PUMP OIL – ROBINAIR	6.21
TLS601	13204	U.S. GALLON (3.08 LITRES)	VACUUM PUMP OIL – ROBINAIR	17.68
TLQ93092	93092	U.S. QUART (0.95 LITRES)	VACUUM PUMP OIL – YELLOW JACKET	10.50

N.B. OIL CHANGE RECOMMENDED AFTER EVERY USE OF VACUUM PUMP.

## REFRIGERATION OIL PUMP

CODE	PART NO.	SIZE/CAPACITY	DESCRIPTION	(QA) £ LIST EA
TLQ77930	MAXFLOW	PUMPS 3.7oz PER STROKE	FITS ALL SIZE OIL CONTAINERS	124.63
TLQ77940	MAXFLOW	PUMPS 2.6oz PER STROKE	COMBINATION OIL PUMP	99.77

## DIGITAL CHARGING & RECOVERY SCALES



TF-VES100B

TLT605	WS-055	50kg	ELECTRONIC CHARGING/RECOVERY SCALE	272.13
TLT601	WS-150	120kg	HIGH CAP. COMPUTER CHARGING SCALE	265.74
TLQ930	TF-VES100B	100kg	TEDDINGTON PROGRAMMABLE SCALES, INCL. CASE	180.00

## RECOVERY, RECYCLING & RECHARGING



TF-VRR2L

TLQ95763	XLT	CFC's, HFC's, HCFC's, R410A	RECOVERY UNIT	1,031.99
TLQ920	TF-VRR24L	CFC's, HFC's, HCFC's, R410A	TEDDINGTON RECOVERY UNIT 1HP	630.00

## AUTOMOTIVE

CODE	PART NO.	SIZE/SUITABILITY	DESCRIPTION	(QA) £ LIST EA
TLT842	QVA103	R134a	**HIGH SIDE COUPLER	28.91
TLT843	QVA105	R134a	**LOW SIDE COUPLER	28.91
TLS595	UK30428	14mm x 1/4" MFL	**TO CONVERT ABOVE TO 1/4" FFL	3.99
TLQ41337		R134a	**HIGH SIDE COUPLER	38.41
TLQ41338		R134a	**LOW SIDE COUPLER	38.41

## LEAK DETECTORS



CODE	PART NO.	RANGE	DESCRIPTION	(QA) £ LIST EA
TLQ995	TF-DDFV2	DETECTS 3 GRAMS PER YEAR	TEDDINGTON DETECTOR HFC, HCFC, CFC, INCL. CASE	65.00
TLS508	16600	DETECTS 1/2oz PER YEAR	AUDIBLE/VISUAL CFC, HCFC, HFC (ROBINAIR)	177.96
TLT554	XTRA	DETECTS 2.8 GRAMS PER YEAR	HEATED DIODE, CFC, HCFC, HFC (ITE)	306.16
TLQ448			LEAK DETECTOR AEROSOL SPRAY	4.95
TLQ452			LEAK DETECTOR NON AEROSOL	10.80

## TEST EQUIPMENT



CODE	PART NO.	FUNCTION	DESCRIPTION	(QA) £ LIST EA
TLT530	ITE8090	DIGITAL CLAMP METER	AC CURRENT, VOLTAGE, RESISTANCE, FREQUENCY	129.06

## THERMOMETERS



PELE113	EWTL300	-20°C TO +70°C	PANEL THERMOMETER WITH 1.5 mtr. BUILT IN SENSOR	12.39
TLT522	DT.1630	-50°C TO +300°C	HAND HELD PROGR. DIGITAL THERMOMETER	32.65

## BRAZING EQUIPMENT

TX-504



TLR727	3.5740R	BRAZING KIT	USES DISPOSABLE OXYGEN AND MAXI GAS	185.45
TLR270	3.5741	930ml OXYGEN CYLINDER	FOR USE WITH TLR727	34.20
TLR285	3.5570	600ml MAXI GAS CYLINDER	FOR USE WITH TLR727	7.38
TLQ645	TX504	BRAZING TORCH	HAND HELD – USES MAPP GAS (UP TO 1950°C)	74.00
TLR329	3.5663	MAPP GAS CYLINDER	450 GRAM	12.80

## BLYGOLD COIL PROTECTION KIT

CODE	DESCRIPTION	(QA) £ LIST EA
TLS604	DIY CORROSION PROTECTION KIT – SUFFICIENT FOR 1 SMALL EVAPORATOR COIL	59.00

## COMPARATOR

REF199	PRESSURE/TEMPERATURE COMPARATOR – R404A, R507, R410A, R134a, R407c etc.	4.99
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**SYSTEM SEALANTS**

Complete with enclosure and facility to lock-off.

CODE	DESCRIPTION	(QA) £ LIST EA
TLQ711	AC2944K SUPERSEAL HVACR	39.92
TLQ712	AC2947K SUPERSEAL ACR	42.95
TLQ717	AC2947A SUPERSEAL UPTO 1.5 TONS	31.00
TLQ718	AC2948A SUPERSEAL ADVANCED 5 TONS+	31.00

**REFRIGERATION PLIERS**



CODE	PART NO.	SIZE	DESCRIPTION	(QA) £ LIST EA
TLT348	VG10		LOCKING PINCH-OFF PLIERS	38.63
TLT350	VG12	1/4"SAE	LOCKING PIERCING PLIERS	118.00
TLT346	105FF	1/4", 3/8", 1/2"	PINCH OFF TOOL	40.76

**RATCHET WRENCHES**



CODE	PART NO.	SIZE	DESCRIPTION	(QA) £ LIST EA
TLS002	2503-115	3/16" & 1/4" SQUARE, PLUS 1/2" & 9/16" HEX. OPENINGS	SERVICE WRENCH, REVERSIBLE RATCHET	4.30

**PROCESS TUBE ADAPTOR**

CODE	PART NO.	SIZE	DESCRIPTION	(QA) £ LIST EA
TLS580	12458	CONNECTS CHARGING HOSE TO PROCESS TUBE SIZE: 3/16", 1/4", 5/16", 3/8"	FAST EASY MEANS OF CONNECTING CHARGING LINES TO HERMETIC COMPR. PROCESS TUBES/PLAIN COPPER TUBE	113.51
TLT575	241-F03	1/4" ADAPTOR	CONNECTS LINE TO COMPRESSOR STUB	20.91

**VALVE CORE REMOVERS**



TLT004	MV3816	FITS 1/4"	VALVE CORE REMOVE TOOL	9.52
TLT028	MV3900	FITS 1/4"	VALVE CORE REMOVE TOOL	66.22
TLS590	40536		VALVE CORE KEY/CONTAINER C/W 6 CORES	6.69
LFFT455	VVC-1		SPARE VALVE CORES ONLY	0.72

**FIN COMB**



TLS015	2503-112	8,9,10,12,14,15 FINS PER INCH	6 IN 1 FIN STRAIGHTENER	5.50
TLT025	WB-1		FIN BRUSH	4.10

**INSPECTION MIRROR**



TLT018	MIR1	32mm DIAMETER	40mm TELESCOPIC INSPECTION MIRROR	9.52
TLT023	MIR5		OBLONG INSPECTION MIRROR	5.54

**IDENTIFICATION LABELS**

Self adhesive labels 60 x 45mm, colour coded. Ester oil label has space to write type.

LBL022		I.D. LABEL 60 x 45mm	R22 (PACKET OF 15) GREEN	2.85
LBL134		I.D. LABEL 60 x 45mm	R134A (PACKET OF 15) BLUE	2.85
LBL404		I.D. LABEL 60 x 45mm	R404A (PACKET OF 15) ORANGE	2.85
LBL407		I.D. LABEL 60 x 45mm	R407c (PACKET OF 15) BROWN	2.85
LBL410		I.D. LABEL 60 x 45mm	R410a (PACKET OF 15) PINK	2.85
LBL507		I.D. LABEL 60 x 45mm	R507 (PACKET OF 15) TURQUOISE	2.85
LBL001		I.D. LABEL 60 x 45mm	ESTER OIL (PACKET OF 15) WHITE	2.85

**ACID TEST KITS**

CODE	PART NO.	APPLICATION	DESCRIPTION	(QA) £ LIST EA
TLQ604	TA-1	ALL OILS	ONE SHOT ACID TEST KIT	13.13

**REPAIR KITS**

CODE	PART NO.	SIZE	DESCRIPTION	(QA) £ LIST EA
TLT090	L11575	11.7 GRAMS	HEAT SEAL STICK	21.15

**CAPILLARY TUBE TOOLS**

TLT002	CTG-2	MULTI-SIZE	CAPILLARY TUBE GAUGE	57.00
TLT001	CTP-1		CAPILLARY TUBE CUTTER	11.11

**URETHANE SEALANT**

TLS605		12oz. AEROSOL CAN	URETHANE FOAM SEALANT	10.00
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## CUBIGEL COMPRESSOR COMPARISONS - R404A

REFRIG.	APPLICATION	CUBIGEL	ELECTROLUX	ASPERA	L'UNITE	DANFOSS	NECCHI	TURK	
R404A	LBP	ML45FB		NEK2117GK	THB2378Z				
		ML60FB		NEK2125GK	THB2396Z	FR6CL		AE250ZC	
		ML80FB		NEK2130GK	AEZ2411Z	FR8.5CL		AE355ZC	
				NEK2134GK	AEZ2415Z			TA9EV A9R A9RV	AE375ZC
		ML90FB							
		MP12FB		NEK2150GK	AE1417Z CAE1417Z AE1420Z CAE2420Z	SC10CL SC12CL		TA11EV A11RV	
					NEK2168GK			A13R A13RV TA13EV	
		MP14FB							
		MX16FB	MR16FB			CAJ2428Z CAE2424Z	SC15CL		
		MX18FB	MK18FB MR18FB	NEK2178GK	CAJ2432Z AKL19ZS	SC18CL	TN17EV N17RV		
		MX21FB	MK21FB	NT2180GK	CAJ2440Z	SC21CL	TN21EV		
		MX23FB	MR22FB	NT2192GK					
		MX23FB	MK23FB					TN23EV	
		MS26FB			NT2212GK	CAJ2446Z CAJ2446L AKL26ZS			
		MS30FB							
MS34FB			NJ2212GK	CAJ2464Z					

For guide purposes only.

## CUBIGEL COMPRESSOR COMPARISONS - R404A

REFRIG.	APPLICATION	CUBIGEL	ELECTROLUX	ASPERA	L'UNITE	DANFOSS
R404A	HBP	ML40TB		EMT6144GK		
		ML45TB		MT6152GK	AEZ4425Z	
		ML60TB		NEK6165GK	AEK4430Z AE6MHG	
		ML80TB		NEK6181GK	AEZ3440Z AEZ4440Z AEZ9440Z	
		ML90TB		NEK6210GK	AE3450Z CAE4450Z CAE9450Z	
				NEK6213GK	CAE9460Z	SC12DLX
		MP12RB			AE12MG	
		MK16TB			CAJ9480Z	SC15DLX
		MX18TB	MR18TB	NT6222GK	CAJ9510Z	
		MS22TB		NT6226GK		
		MX21TB	MR22TB	NT6224GK		
		MS26TB		NJ9232GK	CAJ4513Z CAJ4517Z	

For guide purposes only. ACC compressors were previously called Electrolux, now renamed Cubigel.



**CUBIGEL COMPRESSOR  
COMPARISONS - R134A**

REFRIG.	APPLICATION	CUBIGEL	ASPERA	L'UNITE	DANFOSS	NECCHI	TURK
R134a	LBP	GD30AA	EMT22HLP	AZ1320Y	TL3F	ETR3	
		GD36AA	EMT36HLP	AZ1330Y		ETR3.5	
		GD40AA	EMT36HLP	AZ1335Y	TL4F	ETR4	AZ82YD
		GL45AA	EMT43HLP				
		GL50AB	EMT43HLP	AZ1339Y	TLS5F	ESC5, ETR5	AZ90YD
			EMT49HLP	AZ1355Y	TLS6F	ETR5.5	AZ107YD
		GL60AB			NL6F		AE123YD
		GL70AB	EMT60HLP		NL7F	ESC7, ESR7	AE148YD
						ESC7K, ESR7K	
		GL80AB	NB1116Z		NL9F	ESC8, ESR8	AE176YD
			NBT1118Z			ESC8K, ESR8K	
		GL90AA	NE1121Z	AEZ1365Y	FR10G	ESC9, ESR9	AE196YD
						ESC9K, ESR9K	
		GL99AA		AEZ1380Y			
					NL11F	ESC11, ESR11	
		GP12FB	NE2130Z	AE1410Y	FR11G	ESC11K, ESR11K	
		GP14FB		CAE2410Y			
		AE1412Y					
GP16FB		CAE2412Y					
GX18FB	NT2134Z			SC15FX	AE282YC		
GX21FB	NT2140Z			SC18FX			
				SC21FX			

For guide purposes only.

**CUBIGEL COMPRESSOR  
COMPARISONS - R134A**

REFRIG.	APPLICATION	CUBIGEL	ELECTROLUX	ASPERA	L'UNITE	DANFOSS	NECCHI	TURK
R134a	M/HBP				THB4410Y	TL3G		
		GD36MBH		EMT37HDP	THB4413Y			
			L45PX		THB4415Y	TL4G	ESC4H, ETR4H	
		GL45TB		EMT50HDP	THB4419Y			
		GL60PB	L57PX	NB5144Z		TL5G	ESC5H, ETR5H	
		GL60TB		NB6144Z	THB4422Y	FR6G		
						FR7.5G	ESC7H, ESR7H	AE560YD
		GL80PB		NE5160Z				
		GL80TB	L76TX	NE6160Z	AEZ4425Y			
		GL90PB		NE5170Z	AEZ3430Y			
		GL90TB	L88TY	NE6170Z	AEZ4430Y			AE666YC
		GP12TB	P12TY	NE6187Z		FR11G	ESC11H, ESR11H	AE881YC
		GP14TB	P14TY	NE6210Z	CAE4448Y			AE1024YC
		GK16TB		NEK6214Z	CAE4456Y		SC15GH	
		GX18TB	GK18TB	T6213Z	CAJ4461Y		SC18G	
			GR18TB					
		GX21TB		T6215Z				
GX23TB	GR22TB	T6217Z	CAJ4476Y					
GS26TB			CAJ4492Y					
GS34TB			CAJ4511Y					

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## CUBIGEL COMPRESSOR COMPARISONS - R22 (AND DROP-INS)

REFRIG.	APPLICATION	CUBIGEL	ELECTROLUX	ASPERA	L'UNITE	DANFOSS	NECCHI	KIRBY	
R22 (or drop in)	LBP			E2125E			A9EV		
						SC10C	A11EV		
					E2134E				
					T2136E		SC12C	A13EV	
				S15FN	T2140E		SC15BM		
								N17EV	
				S18FN	T2155E		SC18BM		
					T2168E			N21EV	
R22 (or drop in)	HBP	L45TN	L45TN	B6144E	AEZ4425E			AE5MHE	
				B6152E					
		L57TN	L57TN	B6165E	AEZ4430E			AE6MHE	
		L76TN	L76TN	B6181E	AEZ4440T			AE8ME	
					AEZ9440T				
		L88TN	L88TN	E6210E	CAE9450T			AE9ME	
					CAE9460T	SC10D			
		P12TN	P12TN	E7213E				AE12ME	
						SC12D			
					T6220E				
X18TN	R18TN		CAJ9510T			AK9455E			
S22TN	S22TN	J7225E							
		J9226E							
S26TN	S26TN	J7231F							
		J9232E							

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## MANEUROP COMPRESSOR COMPARISONS - R404A

MANEUROP	L'UNITE HERMETIQUE
MTZ18	CAJ4519Z TAJ4519Z
MTZ22	CAJD9520Z TAJD9520Z
MTZ28	CAJD9526Z TAJD9526Z FH4524Z TFH4524Z
MTZ32	FH4531Z TFH4531Z
MTZ36	
MTZ40	TAJD4538Z
MTZ44	TFH4540Z
MTZ45	TFH4540Z
MTZ50	FHD4548Z TFHD4548Z
MTZ51	FHD4548Z TFHD4548Z

MANEUROP	L'UNITE HERMETIQUE
MTZ64	TAJTR4551Z TAJTR4557Z TAG4553Z
MTZ65	TAJTR4551Z TAJTR4557Z TAG4553Z
MTZ72	TFHD4562Z TAG4561Z
MTZ73	TFHD4562Z TAG4561Z
MTZ80	TAG4573Z
MTZ81	TAG4573Z
MTZ100	TAGD4590Z
MTZ125	TAGD4610Z TAGD4612Z
MTZ144	TAGD4614Z
MTZ160	TAGD4615Z

## MANEUROP SCROLL COMPRESSOR COMPARISONS - R407C

MANEUROP SCROLL TECH	BRISTOL	COPELAND	SANYO	LG	DANFOSS PERFORMER
HRP034	H73C343	ZR34 ZH21		HQ034P HQ034Y	
HRP040	H73C403	ZR40 ZH26	C-SB261H C-SB263H	HQ040P HQ040Y	
HRP047 H73R483	H73C473	ZR48 ZH30	C-SB301H C-SB303H	HQ049P HQ049Y	
HRP054	H73R543				
HRP060	H73R633	ZR61 ZH38	C-SB371H C-SB373H	HQ061Y	
HLP072	H73R723	ZR72 ZH45	C-SB453H	HQ073Y	
HLP081	H73R813	ZR81		HQ081Y	SZ084
HCP094	H70R943	ZR90 ZH56	C-SC603H		SZ090 SZ100
HCP109	H70R104	ZR11			SZ110 SZ115
HCP120	H70R124	ZR12 ZR75	C-SC753H		SZ120 SZ125

For guide purposes only.

**MANEUROP COMPRESSOR COMPARISONS - R404A**

MANEUROP	COPELAND
MLZ015T5LP9	ZB15 K*E PFJ 524
MLZ015T4LP9	ZB15 K*E TFD 524
MLZ019T5LP9	ZB19 K*E PFJ 524
MLZ019T4LP9	ZB19 K*E TFD 524
MLZ021T5LP9	ZB21 K*E PFJ 524
MLZ021T4LP9	ZB21 K*E TFD 524
MLZ026T5LP9	ZB26 K*E PFJ 524
MLZ026T4LP9	ZB26 K*E TFD 524
MLZ030T4LP9	ZB30 K*E TFD 524
MLZ038T4LP9	ZB38 K*E TFD 524
MLZ045T5LP9	ZB42 K*E PFJ 524
MLZ045T4LP9	ZB45 K*E TFD 524
MLZ058T4LP9	ZB56 K*E TFD 524
MLZ076T4LP9	ZB75 K*E TFD 524

**MANEUROP COMPRESSOR COMPARISONS - R22 (AND DROP-INS)**

MANEUROP	L'UNITE HERMETIQUE	COPELAND	ASPERA	WESTINGHOUSE	MITSUBISHI	BRISTOL	SANYO
MT18 (MTZ18)	AJ5518	DCRA10150	J7238			H21B153	
MT22 (MTZ22)	T/AH8526 T/AN5524	SRA40200, DCRD10200 SRB40200	J7240 J7245 H7246		451V	H21B203	DH2
MT28 (MTZ28)	T/AH8532 T/AH5527	SCHC20200, DCRE10225 SRC40200	H7250 H7257 H2175 H6230		460V	H20B263	UC1 2.5
MT32 (MTZ32)	CAH4531 TAH4531 T/AH5531	SCHC20250, DCRG10250 SRD40225 SRK40250	H6238 H7265 H2195 H6238 H7265	CD030	473V	H21B283	
MT36 (MTZ36)	TAH8538	SRM40150, DCRJ10300			478V	H21A343	UC3
MT40 (MTZ40)	TAH5540	YHB20300, DCRK10325		CD036		H22A383	
MT44 (MTZ44)	TAH4525 TAH4540 TAH8548 TAG5546	YHC20350, DCRL10350 YRB20300 YRB20200	H2214 H6253 H7283	CD041	510V		
MT50 (MTZ50)		YRC20200 YRB0400, YHD60400 YHC20350	H23A463				
MT56 (MTZ56)	TAG4546 TAG5553	YRB0500 YRD60400 YHD60400 YRD20250	F2219 F6280 F7311	CD048	512Y		
MT64 (MTZ64)	TAG4553 TAG4534 TAG4561 TAG5561	YHE60500, DCRN0500 YRE60500 YRE20300	F2222 F6290 F7313			H23A613	
MT72 (MTZ72)	TAG4568 TAG5568		F2224 F6310 F7314	CD060	516Y		
MT80 (MTZ80)	TAG4573 TAG5573		F2227 F6311 F7316	CD072			
MT100 (MTZ100)	TAN5590	BRE0750, BRE0750	C4236 C7320 F2231 F6312 F7318	CD090	521Y		UC7.5
MT125 (MTZ125)	TAN5612	BRG1200, BRH21000	C7326		527Y		UC10
MT144 (MTZ144)	TAN5614						
MT160 (MTZ160)		BRK11200	C7333				UC15

For guide purposes only. Use Maneurop MTZ compressor to replace MT and others on R22.

## COMMERCIAL COOLERS DUTY BASED ON R404A, ROOM TEMPERATURE 8°C WITH 8 KTD.

UNIVAP	FRIMETAL	SEARLE	ECO	FRIGA-BOHN	CONTARDO	KUBA
TCM1		KS10-6 KS15-8 LPC40 NS14-6	CL16		NCF19	SPB011D
TCH1	FRM100	KS10-4 KS15-6 KS20-8	CL14 KL16	FPN130 SD021L MUC145		SPA011D
TCM2 MA3					NCF24	SPA021D
MA4 TCH2	CPD75 FRM120	KS15-4 KS20-6 BC23 BC27 KS20-4 NS25-6 KS25-8	KL25	SD027L SD024R MUC210 FPN200 SD030R SD035L SKL401.2 SDR038R	NCF36	SPA031D
TCM3 MA5		KS25-6 LPC80 KS25-4 BC34 NS28-6	CL34 KL33 KL37	SD048L FPN260 MUC285		SPB022D SPA041D
TCM4 MA7		KS35-8 NS37-6 BC43 KS35-6 KS40-8 KS35-4	SL40 CL46	SD052R MUC320 SD055L	NCF54	SPA022D DPA031C-N
MA8 TCH4	CPD150 FRM170	KS40-8 KS35-4	CL54 KL50	SKL402.2 MUC420		SPB051D SPA032D DPA041C-N
TCM5		LPC120 NS43-6 BC53 KS45-8				SPB042D SPB061D
	FRM230	KS40-6 KM50-8 KS45-6 KS40-4 KM50-6	CL56 SC60	SD062R SD073L MUC520	NCF73 NCF87	
	CPD200 CPD225	KS55-8 KS45-4	CL74 KL66	SD082R SD095L		SPA042D SPA051D
TCH5		BC66 LPC160 NS57-6 KS55-6 KM60-8	CL76	SK41.2 SKL403.2		SPA042D SPA061D
SKM1 TCM6		KM50-4 KM60-6	SL80 CL84	MUC620 SD104R		SPB043D DPA032C-N
SKH1 TCM7	FRM300	BC77 KS70-8 KS70-6 KM80-8	KL82 SC120	SKB06R SD110L		SPA043D SPB071D DPA042C-N
		KS55-4 KM60-4				
TCH6	CPD300	BC91 KS70-4 KM80-6		SD118R SD136L SK42.2 SKL404.2	NCF130	SPA043D SPB052D
TCM8	FRM340 FRM460	BC113	CL116 SC160	SD148L SD148R	NCF174	SPA071D SPA044D
TCH7	CPD400	KM95-8	SL120 CL134	SK43.2 MUC780		SPA052D SPB062D DPA033C-N

UNIVAP	FRIMETAL	SEARLE	ECO	FRIGA-BOHN	CONTARDO	KUBA
TCM9		KM80-4 KM95-6 KM115-8	CL146 SC140	SD158R SKB10R		SPA081D DPA043C-N SPA062D
TCH8		KM95-4 KM115-6	SL160 CL174	MUC960 SK44.2	NCF220	
TCH9	CPD500					SPD053D SPB072D DPA044C-N
	FRM580		SC180 CL196 SL200	SKB12R SK45.2		
		KM140-8	CL214 CL226 CL244 SL240	SKB16R		
		KM115-4 KM140-6 KM140-4 KM175-8 KM175-6 KM175-4				
				SKB24R		

## PANEL COOLERS DUTY BASED ON R404A, ROOM TEMPERATURE 8°C WITH 8 KTD.

UNIVAP	FRIMETAL	SEARLE	ECO	FRIGA-BOHN	CONTARDO	RUSSELL	KUBA
CR1 CR2		JG1	EVS40/B EVS60/B		HP5 EC4 HP8		DFB011D DFB011D
CR3	MVP21	TG1-5 JG2 TG1-7	EVS100/B	XR60	HP9 HS7 HS10 DA38	SPT17-10	DFA011D
	MVG25	JG3	EVS130/B	XR72 XR80 MR75 XR85	HS11		
	MVP42	DFT1-4 JG4 TG2-5 TG2-7		XR90 FPN70 XR100 XR105 XR122	EC9	SPT27-17	
MA1	MVG40	TG3-5 JG5 TG3-7			HS14 DA50 EC19 HS16		DFB022D
CR4 MA2 CR5	MVP64	TG3.5-5 JG6 TG3.5-7	EVS180/B	MR110 FPN100	DA75	SPT27-23	DFA022D DFA022D
CR6	MVP85	JG7 JG8 TG4-5 TG4-7	EVS290/B	MR135 FPN130	HS20 HS24 DA100 HS29		DFA032D
CR7	MVG80	DFT3-4 TG5-5 TG5-7	DL28		EC28	SPT37-35	DFA023D DFB033D DFB033D DFA033D
MA3 MA4		TG6-5 TG6-7 LDF1-6		MR210 FPN200 MR270		SPT37-47	DFA061C DFB071C
MA5	MVG120	TG7-5 LDF2-6 TG7-7					DFA071C DFB052C
MA6		TG8-7		FPN260			DFA052C DFB062C
MA7 MA8		LDF3-6	DL56				DFB062C DFA062C DFB072C

**DIXELL UNIVERSAL-R REPLACEMENT GUIDE. For guide purposes only.**

The Universal-R can replace all of the following controllers, providing all of their key functions. Some minor functions may not be offered. Note that the table below is not a comparison between the manufacturers listed.

LAE	SAE	INTEK	AKO	EVERY/EVCO	DIXELL	ELIWELL	CAREL	BETA	TEDDINGTON	DANFOSS
MTR11/T1RDS	RT31	RK31	EKV203	EC3-120	XR110C	EWPC901	IR32S	RD31	EK-R31	EKC204
MTR11/T1RES	RC31	RK32	EKV204	EC3-130	XR120C	EWPC902	IR32Y	RT31	EK-R32	EKC101
SDU11/T1RES	RC31-1000	RK33	EKV213	EC3-131	XR130C	EWPC961	IR32C	BL21	EK-R33	
SDU11/T1REBS	RC31- 0100	TK31	EKV222	EC3-110	XR140C	EWPC970	CR32S	RC31		
MCDU11/T1RDS	RC32- 0000	DK31 (PTC)	EKV231	EC3-111	XR150C	EWPC971	CR32T	BL32		
MCDU11/T1RDS/1	RC33		EKV241	EC3-180	XR160C	EWPC974	CR32X	RC32		
MCDU11/T1RDS/2	DC31 (PTC)		EKV251	EC3-181	XR170C	EWPC977A	CR32Y	BL33		
MCDU11/T1RDS/3			EKV253	EC3-185	XR10C	EWTC101	PJ32Y	RC33		
CDC112/T1RDS			FK200X	FK200A	XR20C	EWPC161	PJ32S	WH31		
CDC112/T1R3S			FK203A	FK201A	XR40C	EWPC161AR	PJ32X	RD21		
CDC112/T1RBS			FK203R	FK201T	XR60C	EWPC170	PJ32C	BL22		
SPU112			FK207Y	FK202A	XR02CX	EWPC171	IR33FSOEP00/C	BL23		
SDU12TORES			FK214A	FK202T	XR03CX	EWPC174	IR33F7EN00/C			
SDU12TOREB			FK215A	FK203B	XR04CX	EWPC174AR	IR33F7EN00/F			
SDU12TORD				FK203C	XR06CX	EWPC177A	PJ32M			
SDU12TORDC				FK203T	XR20CX	EWPC185	PJZERO			
LDU151E				FK214A	XR30CX	IC901	PJ32V			
LDU152E				EVK201	XR40CX	IC902	PJ32W			
CDC112T1R2				EVK211	XR60CX	ID961	PJ32Z			
CDC112T1R3B				EVK221	XR70CX	ID961LX	PJEZ-S			
MP1-15				EVK202		ID970	PJEZ-X			
MP1-15B4EA				EVK212		ID970LX	PJEZ-C			
LD1-15				EVK223		ID971	PJEZ-Y			
LD2-15				FK209A		ID971LX				
MTR6				FK214		ID974				
AT1-5						ID974LX				
AT2-5										
AD2-5										
AD3-5										
AH1-5										
AR1-5										

**PENN** – replaces the MR1PM12R-1C, MR1PM230R-1C, MR2PM12R-1C, MR3PM12R-2C and MR4PM12R-2C.

**DIXELL UNIVERSAL-J REPLACEMENT GUIDE. For guide purposes only.**

The Universal-J can replace all of the following controllers, providing all of their key functions. Some minor functions may not be offered. Note that the table below is not a comparison between the manufacturers listed.

LAE	SAE	INTEK	AKO	EVERY/EVCO	DIXELL	ELIWELL	CAREL	BETA	TEDDINGTON	DANFOSS
MTR11/T1RDS	DC31	DK31	AKO-14112/8	EC3-120	XR110C	EWPC901	IR32S	RD31	EK-R31	EKC201-084B7005
MTR11/T1RES	RT31	TK31	AKO-14123/9	EC3-130	XR120C	EWPC902	CR32S	BL31		EKC201-084B7011
SDU11/T1RES	RC31	RK31	AKO-14712/16	EC3-131	XR10C	EWPC961	PJ32S	RC31		EKC101
SDU11/T1REBS				EC3-133	XR20C	IC901	IR33FSOEP00/c	WH31		
SDU112				FK202A	XT110C	IC902	PJ32M	RD21		
LDU112				FK200X	XR02CX	ID961	PJZERO			
LDU151E				FK201X/A	XR20CX	ID961LX				
SDU12TOREB				FK202T						
SDU12TORD				FK200P						
SDU12TORDC				FK201Y/T						
SDU12TORES				FK207A						
LDU152E				FK250X						
MTR6				FK150P						
				FK151X						
				FK151A						
				FK515Y						
				FK151T						
				EVK201						
				EVK211						
				EVK221						
				EKV231						

## SOLENOID VALVE COMPARISONS. For guide purposes only.

SPORLAN SCEM	PARKER SCEM	SPORLAN	DANFOSS	ALCO	FLICA	TEDDINGTON	CASTEL	PARKER JE	SANHUA
V3F2	142IR	A3F1	EVR2*				1020/2	RB1F2	MDF-A03-2L
V4F2	142BR		EVR3	110RB2F2	MB 1/4	KDD/AF		RB3F2	MDF-A03-3L
V4F3	142AR	B6F1		110RB2F3	MB 3/8		1020/3	RB3F3*	
V8F3			EVR6						MDF-A03-6L
V10F3	145.5IR	B9F2*	EVR6*	200RB4F3*		KDD/AC*	1064/3*		
V13F4	145.5AR	B10F2*	EVR10	200RB6F4	MB 1/2	KDD/AG*	1070/4	RB6F4	MDF-A03-10L
V19F5	145.5BR		EVR15	200RB6F5*	MB 5/8	KDD/AH*	1070/5*	RB9F5*	MDF-A03-15L
V3S2			EVR2						MDF-A03-2H
V4S2	142.2ARSP	E3S120*	EVR3	110RB2T2	ML 1/4	KDD/AT	1028/2*		MDF-A03-3H
V8S3			EVR6						MDF-A03-6H
V10S3	145.6IRSP	E9S230*	EVR6*	200RB4T3*	ML 3/8	KDD/AS*	1068/3*	RB3E3*	
V13S4	145.6ARSP	E10S240*	EVR10	200RB6T4	ML 1/2	KDD/AJ*	1078/4	RB6E4	MDF-A03-10H
V19S5	145.6BRSP	E19S250	EVR15	240RA9T5	ML 5/8	KDD/AK*	1078/5*	RB9E5*	MDF-A03-15H
V23S6	145.6CRSP						1088/6*		
V23S7	145.6DRSP	E25S270	EVR20	240RA12T7*	ML 7/8		1088/7*	RB21E7	MDF-A03-20H
V23S9	145.6ERSP	E25S290	EVR20						MDF-A03-20H
	165.6ERSP	E33S290	EVR25	240RA16T9			1088/9	RB41E9	
	165.6FRSP	E33S2110	EVR25	240RA20T11				RB41E11	
		10G79B						RS55	
		10G711B						RS65	

\*Undersize port †Oversize port.

## FILTER DRIER CORE COMPARISON

For guide purposes only.

PARKER	SPORLAN	ALCO	KMP/VIRGINIA	MUELLER	HENRY	DANFOSS
PCX-48	RC-4864	H-48 D-48	VS-48S DC48B VS48H DC48H	A-16597 RCS-48 A-16590 RCH-48	848-C 848-CM	23U1020 DCR
Z48	RCW48	HX48				
PCK-100	RC-10098	W-100	VS-100H DC-100H		810-CM	
PFE-48BF	RFE-48BD		DC48F VS48F	A-16598 RFE-48	848-F	
	RFE-100				810-F	

**SAGINOMIYA WATER REGULATING VALVE COMPARISONS.** For guide purposes only.

2 WAY WATER REGULATING VALVES			3 WAY WATER REGULATING VALVES		
SAGINOMIYA	DANFOSS	PENN	SAGINOMIYA	DANFOSS	PENN
AWR 1203G (3/8)	WVFX 10 (3/8)	V 46AA 9600 (3/8)	SWR 1203G (3/8)	N/A	N/A
AWR 1504G (1/2)	WVFX 15 (1/2)	V 46AB 9600 (1/2)	SWR 1504G (1/2)	N/A	V 48AB 9002 (1/2)
AWR 2006G (3/4)	WVFX 20 (3/4)	V 46AC 9600 (3/4)	SWR 2006G (3/4)	N/A	V 48AC 9002 (3/4)
AWR 2510G (1)	WVFX 25 (1)	V 46AD 9600 (1)	SWR 2510G (1)	N/A	V 48AD 9002 (1)
AWR 3212G (1.1/4)	WVFX 32 (1.1/4)	V 46AE 9600 (1.1/4)	SWR 3212G (1.1/4)	N/A	V 48AE 9002 (1.1/4)

**SAGINOMIYA PRESSURE CONTROL COMPARISONS.** For guide purposes only.

CODE	SAGINOMIYA	RANCO	DANFOSS	PENN	TEDDINGTON
MSAG151	SNS-C102X			P77-AAA9302	
MSAG153	SNS-C106X	016-H6703	KP1-0601101	P77-AAA9300	TBV-AS13/13A/HS13
MSAG201	SNS-C106XM2	016-H6705	KP1-0601103	P77-BCA9300	
MSAG161	SNS-C110X			P77-AAA9301	
MSAG155	SNS-C130X	016-H6750	KP5-0601171	P77-AAA9350	TBV-BS15
MSAG170	ANS-C130BX			P77-AAA9351	
MSAG164	SNS-C130XM1	016-H6751	KP5-0601173	P77-BEA9350	TBV-BT15
MSAG220	DNS-D306X	017-H6701	KP15-0601241	P78-LCA9300	TBN-AA1/BA 1
MSAG221	DNS-D606X	017-H4701	KP15-0601265		
MSAG225	DNS-D306XM	017-H6705	KP15-0601243	P78-MCA9300	TBN-AB1/BB1
MSAG226	DNS-D606XM	017-H4705	KP15-0601264		
MSAG227	DNS-D606XMM	017-H4703/6703		P78-PGA9300	TBN-AC1/BC1
MSAG266	WNS-C106X		MP55-060B0299	P74-DA9300/9600	
MSAG260	ONS-C106XQ34		MP54-060B0166	P28DP-9640C	
MSAG263	ONS-C106XQ006		MP54-060B0167		
MSAG261	ONS-C106XQ35		MP54-060B0168	P28DP-9660C	
MSAG262	ONS-C106XQ36	P30-3801/5826/5827/5839	MP54-060B0169	P28DP-9680C	
MSAG248	ENS-C106XQ15			P45NBB9640/9660/9680/9381C	
MSAG235	SNS-2C130T	016-H6758	KP7W-0601190	P77-AAW9350	TBV-LS18
MSAG236	SNS-2C130TM1	016-H6759	KP7B-0601191	P77-BEB9350	TBV-LT18
MSAG237	SNS-2C130TS	016-H6760	KP7S-0601192	P77-BES9350	TBV-LW18
MSAG238	DNS-2D306T	017-H6758	KP17WW-0601267/KP17W-0601271	P78-LCW9300	
MSAG239	DNS-2D306TM	017-H6759	KP17B-0601268	P78-MCB9300	
MSAG240	DNS-2D306TS	017-H6760		P78-MCS9350	

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# COMMERCIAL REFRIGERATION | PRICE LIST • MAY 2015

## IMPORTANT INFORMATION

1. PAYMENT TERMS are strictly net 30 days monthly account for approved credit customers, otherwise cash or approved credit card.
2. CURRENT PRICES at time of despatch apply to all orders. Prices exclude VAT, which will be applied at the appropriate rate.
3. DELIVERY is free of charge by Next Working Day transport to all UK mainland addresses (incl. the Isle of Wight & Skye, but not Next Day to Skye) for orders over £50 net value excl. VAT. For UK offshore (incl. Northern Ireland, Channel Islands, Isles of Scilly, Isle of Man, all offshore Scottish Islands except Skye) delivery is chargeable at cost. For orders of under £50 net value within the UK, delivery is chargeable (details on request). Timed deliveries, weekend deliveries etc are at extra cost for all orders. Tail lift vehicles are available on request (subject to availability). For further information please see "delivery options" in the Company section of our website.
4. WARRANTY normally 12 months from date of invoice. Please refer to information below. Extended parts warranties: KUBA 24 months, Fusion low noise, KDSroll and Hermetic low noise 36 months, JCC cellar cooling 36 months.
5. MINIMUM ORDER value £25.00 excl. carriage and VAT.

## IMPORTANT INFORMATION

### PREAMBLE

1. These general conditions shall apply save as varied by specific agreement in writing and if these conditions conflict with any conditions of the Purchaser, these conditions shall prevail.

### FORMATION OF CONTRACT

2. The contract of sale shall be concluded by the issue of an invoice or delivery note by the Company containing these conditions and any representative of the Purchaser shall be deemed to have authority to contract on such items.

### DESCRIPTION OF GOODS

3. All data included in catalogues, circulars, advertisements and price lists of the Company shall be deemed to be approximate only.

### DELIVERY

- 4.1 Except as provided in clause 4.3 delivery of the goods shall take place when they are actually delivered to the Purchaser or his representatives or to the Purchaser's premises when the risk as to loss and damage in respect of the goods shall pass to the Purchaser.
- 4.2 Late delivery of goods does not entitle the Purchaser to do any of the following:
  - 4.2.1 reject the goods;
  - 4.2.2 terminate the contract;
  - 4.2.3 withhold payment.
- 4.3 If the Company is unable to deliver the goods because the Purchaser has not provided appropriate instructions, information, documents, licences or authorisations delivery of the goods shall be deemed to have taken place on the day the Company would have delivered them.
- 4.4 Risk in the goods passes to the Purchaser on delivery.

### PAYMENT

- 5.1 Prices are exclusive of V.A.T. and payment shall be due on the last day of the month following date of invoice.
- 5.2 Without prejudice to any other remedy available to the Company if payment is overdue, payment for all goods by the Purchaser to the Company shall become payable immediately and interest as allowed by the Late Payment of Commercial Debts (Interest Act 1998) shall be chargeable from the date of invoice and the Company may recover the goods as set out in clause 6.4.

### TITLE AND RISK

- 6.1 Ownership of the goods remains with the Company and will not pass to the Purchaser until one of the following events occurs:
  - 6.1.1 the Company is paid for all the goods and no other amounts are owed by the Purchaser in respect of other goods supplied by the Company.
  - 6.1.2 the Purchaser sells the goods in accordance with these conditions in which case ownership will pass to the Purchaser immediately before the goods are delivered to the Purchaser's customer.
- 6.2 Where the goods are attached to or incorporated in other goods or are altered by the Purchaser, ownership of the goods shall not pass to the Purchaser by virtue of the attachment, incorporation or alteration if the goods remain identifiable and, when attached or incorporated in other goods, can be detached or removed from them.
- 6.3 The Purchaser must store the goods separately from any other goods until one of the following events occurs:
  - 6.3.1 they become the Purchaser's property; or
  - 6.3.2 they are attached to or incorporated in other goods; or
  - 6.3.3 they are delivered to another buyer by the Purchaser.
- 6.4 If the Purchaser is overdue in paying for the goods or any other goods supplied by the Company, the Company may, if still the owner of the goods, recover and resell them. The Company may enter the Purchaser's premises for this purpose and may, if necessary, detach or remove the goods from any other goods. This does not affect any other right of the Company.
- 6.5 Until the Purchaser has paid the Company for all goods which the Company has supplied to the Purchaser:
  - 6.5.1 if the Purchaser sells the goods, the Purchaser shall hold the proceeds of sale on trust for the Purchaser in a separate bank account;
  - 6.5.2 the Company may trace the proceeds of sale that the Purchaser receives into any bank or other account which the Purchaser maintains;
  - 6.5.3 if the Purchaser sells the goods, the Purchaser may, by written demand, require the Purchaser to assign to the Company the Purchaser's rights to recover the price from its buyer; and
  - 6.5.4 the Purchaser must not assign to any other person any rights arising from a sale of the goods without the Company's consent.

### GUARANTEE AND WARRANTY

- 7.1 The guarantee period shall be 12 months from the date of invoice.
- 7.2 During such period the Company shall remedy any defects in the goods arising out of defective materials and/or workmanship provided that the Purchaser on discovering a defect shall give immediate notice verbally and in writing of such defects to the Company.
- 7.3 Immediately after giving such notice, the Purchaser shall return the defective goods (or any part thereof) to the Company at the Purchaser's risk and expense.
- 7.4 The Company shall repair or replace the goods within a reasonable period or at the option of the Company the invoiced price of such goods shall be refunded to the Purchaser thereby discharging the Company from any further liability for any consequential or other damages except that after repair or replacement the goods shall be guaranteed for the remainder of the guarantee period only.
- 7.5 The Company shall not be liable if the defects result from misapplication, misuse or other fault of the Purchaser in relation to the storage, handling, application or use of such goods (without prejudice to any term implied by law).
- 7.6 The Company shall endeavour to supply products suitable for the Purchaser's requirements but shall not be under any liability for failure of a product where no or incomplete or incorrect technical or other information as to its application or usage has been supplied.
- 7.7 If the goods are covered by a supplier's or manufacturer's guarantee the terms of such guarantee shall be deemed to be accepted by the Purchaser in substitution for the foregoing guarantee. The Purchaser shall be responsible for ascertaining which guarantee provisions apply.
- 7.8 These warranties and guarantees shall not apply if the Purchaser is in breach of these terms and conditions including the obligation to make payment.
- 7.9 Nothing in these conditions limits the Company's liability for personal injury or death arising from the negligence of the Company, its representatives or employees.

### RETURN OF GOODS

8. If the Purchaser wishes to return non-defective unused goods to the Company the Company may at its discretion accept such goods and credit the Purchaser with the price paid by the purchaser for the goods less a restocking charge provided that the goods are returned in a new condition suitable for resale.

### CANCELLATION

- 9.1 The Purchaser is not permitted to cancel this contract except if the Company commits a material breach of its obligations under the contract or with the written consent of the Company.
- 9.2 If the Company consents to cancellation under clause 9.1 the Purchaser shall indemnify the Company for all liquidated damages and losses incurred as a result of the cancellation.

### INSOLVENCY

- 10.1 If the Purchaser:
  - 10.1.1 being a company;
  - 10.1.1.1 has a petition presented for its winding up; or
  - 10.1.2 passes a resolution for voluntary winding-up (other than for the purpose of a bona fide amalgamation or reconstruction); or
  - 10.1.3 enters into a voluntary arrangement with its creditors; or
  - 10.1.4 becomes subject to an administration order; or
  - 10.1.5 has a receiver appointed of all or any of its assets; or
- 10.2 being an individual or firm;
  - 10.2.1 becomes bankrupt or insolvent; or
  - 10.2.2 enters into a voluntary agreement with creditors then the Company shall be entitled to treat the contract as being at an end or suspend any further deliveries under the contract. If the goods have been delivered but not paid for, the price shall become due immediately regardless of any previous arrangement to the contrary.

### LIMITED LIABILITY

- 11.1 The Company shall be under no liability if it is unable to perform a contract of sale (including delays in delivery) for any reason beyond its control including Act of God, fire, inclement or exceptional weather conditions, official or unofficial industrial action, hostilities, shortage of labour, shortage of materials, failure of power or other supplies, governmental orders or intervention by any other cause whatsoever of an unexpected and exceptional nature.
- 11.2 If circumstances under clause 11.1 continue for a period exceeding 3 months the Company may terminate the contract.

### APPLICABLE LAW

12. The law relating to these Terms and Conditions shall be English Law and the Purchaser shall submit to the exclusive jurisdiction of the English Courts.

## IMPORTANT WARRANTY INFORMATION

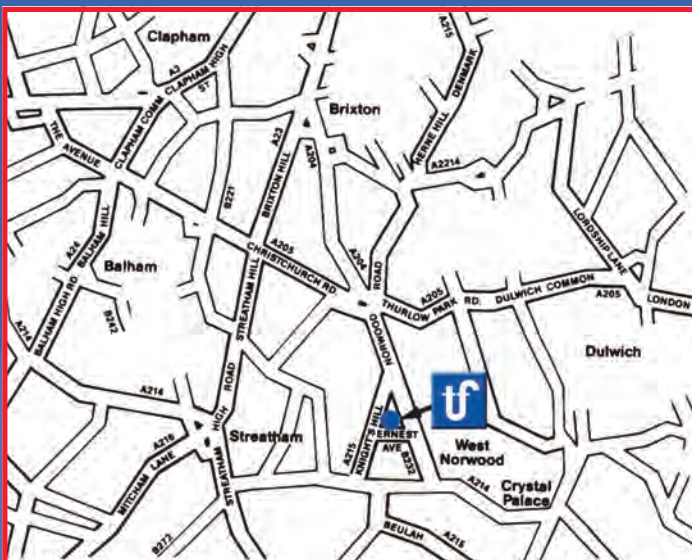
1. Removal of the warranty number label from a compressor or condensing unit AUTOMATICALLY invalidates the warranty. Please quote the warranty number on any correspondence. Removal of serial numbers and manufacturers data plates may also invalidate the warranty.
2. Connection stubs on compressors MUST be sealed before return, or warranty will be invalid. All refrigerant contained within the product must be removed before sealing.
3. Should you request an "advance warranty replacement," this will be invoiced pending the return and processing of the item being replaced. You will be requested to provide an order for advance replacement.
4. Warranty procedures on hermetic compressors may involve cutting open the shell, rendering the compressor unusable even if no fault is subsequently found.
5. Warranty items cannot generally be returned to the claimant after the warranty process has commenced, even if no fault is found. In the event that it is possible to return an item, we reserve the right to apply a processing charge.
6. All returns must be accompanied by a warranty returns form, which can be downloaded from our website.
7. When a warranty item is returned to the manufacturer for examination, the manufacturer's decision on the warranty claim will be conclusive and final.
8. E & OE accepted. Thermofrost and its agents make every reasonable effort to ensure the accuracy and validity of the information provided in this price list. However, as policies, price points, dates, conditions, and information are continually changing, we reserve the right to change at any time without notice and make no warranties or representations as to its accuracy.



**Thermofrost Cryo**

REFRIGERATION & AIR CONDITIONING

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### BIRMINGHAM

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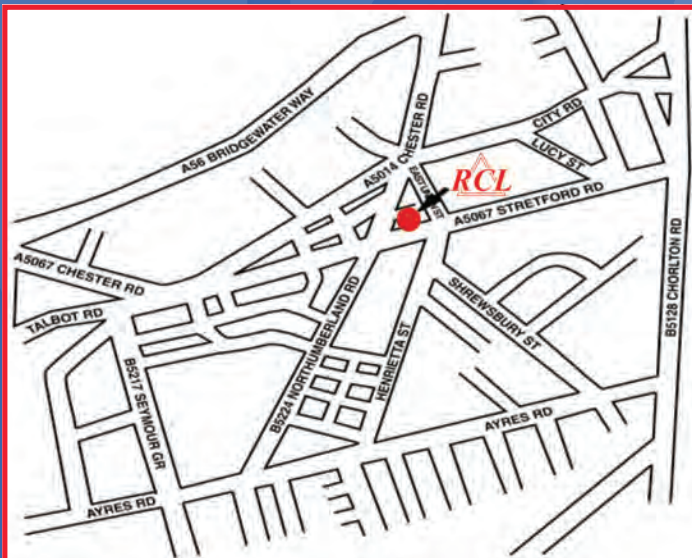
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