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Thermofrost Cryo is a British independent wholesaler and distributor of refrigeration and air conditioning equipment, components, parts and ancillaries.

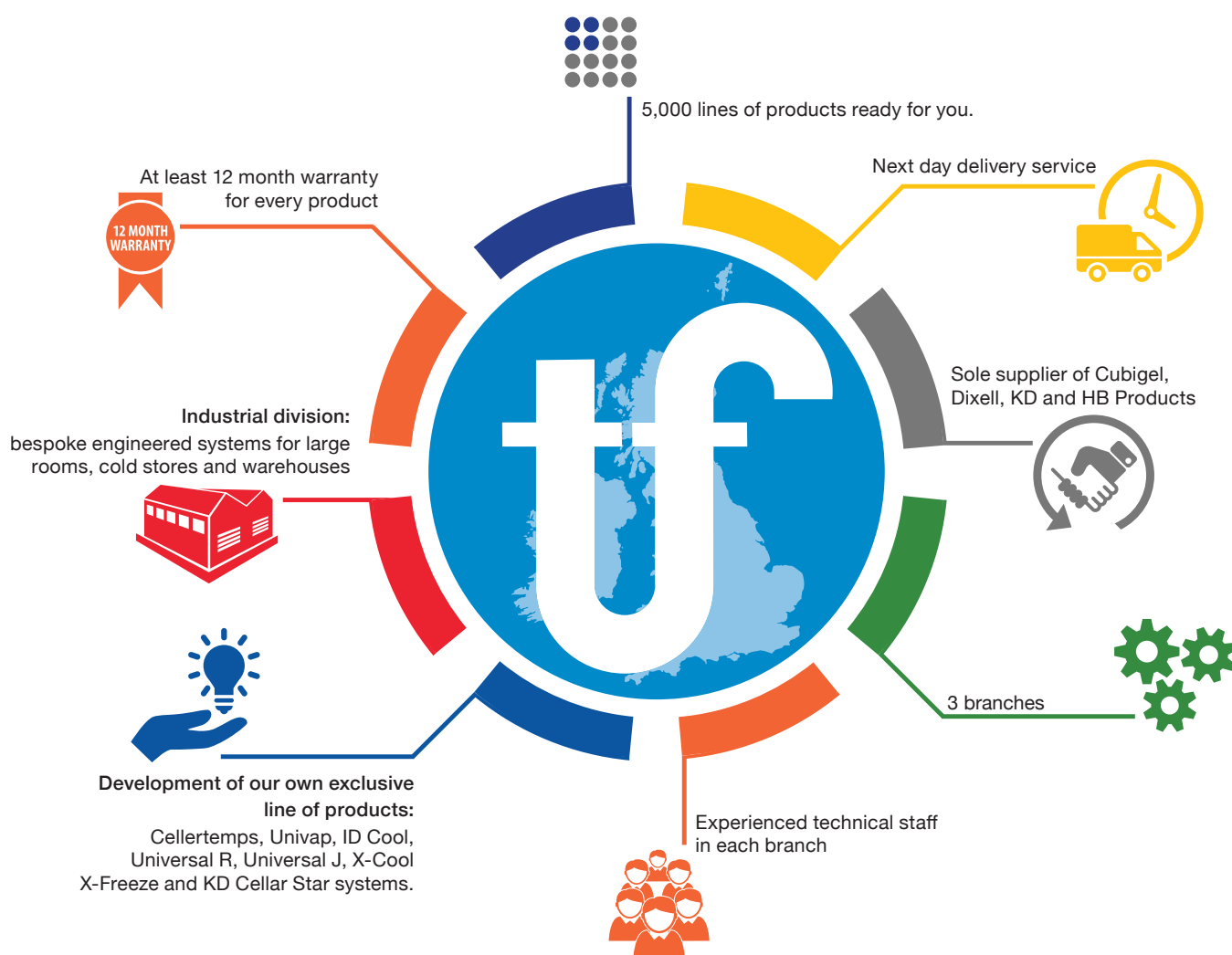
We are a national distributor with three strategically located branches in Manchester, Birmingham and London. This gives us the ability to offer a next day delivery service.

We provide a complete line of refrigeration, controls, air conditioning and electrical supplies from the world's best and up and coming manufacturers to three customer segments:

- | **Contractors/Installers of refrigeration equipment**
- | **Wholesalers**
- | **OEMs (Original equipment manufacturers)**

Our knowledgeable engineers are very experienced and have the technical skills to meet the unique requirements of our customers and find solutions quickly and efficiently.

With more than 44 years of experience in the RAC market, Thermofrost is known as the **'SPECIALISTS'**.



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ANNUAL PROMOTIONS



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Capacity

2.6 kW
3.5 kW
5.3 kW
6.5 kW

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ASH-18AIE2
ASH-24AIE2

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STANDARD NEXT WORKING DAY DELIVERY SERVICE

Our standard delivery service for the UK Mainland for orders over £50 net value excluding VAT. Not applicable to Ireland and offshore islands:

Next Working Day:	Free of charge
Before Noon:	£16.00
Before 10.00am:	£23.00
Before 9.00am:	£36.00
Saturday before noon:	£27.00
Saturday before 10.00am:	£35.00
Saturday before 9.00am:	£52.00

Please contact us for availability of services for your specific delivery destination. In some remote areas the service is not next working day and takes approximately 3 working days. Full in-transit tracking is provided if required with the above services. Additional charges apply for refrigerant cylinders.

LOW VALUE ORDERS

As Standard Next Working Day Delivery Service but for orders under £50 net value excluding VAT. Not applicable to Ireland and offshore islands.

Next working day:	£10.00
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Before noon, before 10.00am, before 9.00am and Saturday services are chargeable at the Standard Delivery Service rates plus the low value order charge.

First class post is an option at cost, but this is at the customers own risk as no tracking facilities are available and therefore we can accept no responsibility for deliveries which fail to arrive at their destination. For that reason we do not recommend using this service.

IRELAND AND OFFSHORE

Includes Northern Ireland, Channel Islands, Isles of Scilly, Isle of Man, Shetland & Orkney, offshore Scottish Islands. Please contact us for availability of services for your specific delivery destination

All Services: At cost

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Collections can be made from any of our branch locations during normal working hours, subject to availability.

Goods shipped via our Standard Delivery Service and Low Value Service may also be collected from any TNT depot. Please contact us if you wish to use this service. Normal Standard Delivery and Low Value Service charges apply.

Local deliveries using our own vehicles may also be available from our Manchester branch.

VAT is applicable to all prices.



CAPITAL EQUIPMENT

COMPRESSORS

Hermetic reciprocating

World largest manufacturer of 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.



B Range **NEW**

- Wider type of application
- 2.2 to 6.5 cc
- R134A, R600A, R290, R404A
- Water coolers, can/bottle coolers, small refrigerators and freezers.



L Range **NEW**

- The highest efficient range with propane (R290)
- 4.00 to 9.9 cc
- 134A, R404A
- Refrigerators, freezers, bottle coolers, ice cream freezers, vending machines, beer dispensers, soft drink dispensers and ice makers



P Range

- High efficiency model
- 12.00 to 16.00 cc
- R134A, R404A, R600A, R290, R507
- Household refrigerators, bottle coolers and freezers, can coolers, vending machines, ice cream freezers, beer dispensers and ice makers



X Range

- Designed to work under heavy duty conditions
- 16.00 to 23.00 cc
- R134A, R404A, R290, R407C, R507
- Large freezers, blast freezers, ice makers, Vending machines, display cabinets and soft drinks dispensers



S Range

- Top capacity range. Optimized to reduce vibration
- 18.00 to 34.42 cc
- R134A, R404A, R407C, R507
- Large freezers, soft drinks dispensers, blast freezers, air dryers, ice makers, air conditioning, vending machines, heat pumps, display cabinets

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	155.22
UNC800	ML60FB	1/6	5.5	262	894	C/V	F	158.05
UNC801	ML80FB	1/4	8.1	372	1,272	C/V	F	166.15
UNC802	ML90FB	1/3	9.8	407	1,391	C/V	F	173.17
UNC803	MLY12LAa	3/8	10.7	570	1,945	C/V	F	169.32
UNC704	MPT12LA	3/8	12.1	663	2,262	C/V	F	178.24
UNC805	MP14FB	1/2	14.0	628	2,146	C/V	F	193.17
UNC746	MPT14LA	1/2	14.0	779	2,658	C/V	F	240.09
UNC820	MX18FBa	5/8	18.0	814	2,782	C/V	F	310.45
UNC822	MX21FBa	2/3	21.0	936	3,199	C/V	F	318.23
UNC824	MX23FBa	2/3	23.0	1,064	3,636	C/V	F	322.53
UNC812	MS26FB-T	3/4	26.0	1,221	4,172	C/V	F	366.80
UNC813	MS26FB-V	3/4	26.0	1,221	4,172	C/V	F	378.74
UNC826	MS34FB-T	1	34.0	1,628	5,563	C/V	F	400.59
UNC817	MS34FB-V	1	34.0	1,628	5,563	C/V	F	413.61

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

UNC834	ML45TB	1/5	4.5	663	2,265	C/V	F	155.22
UNC836	ML60TB	1/4	5.7	814	2,782	C/V	F	145.15
UNC838	ML80TB	3/8	7.6	1,105	3,775	C/V	F	163.36
UNC840	ML90TB	3/8	8.8	1,326	4,530	C/V	F	165.49
UNC740	MLT12RA	3/8	10.7	1,738	5,928	C/V	F	182.31
UNC741	MPT12RA	3/8	12.1	1,960	6,688	C/V	F	227.93
UNC745	MPT14RA	1/2	14.3	2,210	7,541	C/V	F	240.09
UNC855	MX16TBa	5/8	16.0	2,378	8,126	C/V	F	302.61
UNC856	MX18TBa	3/4	18.0	2,710	9,259	C/V	F	305.26
UNC857	MX21TBa	7/8	21.0	3,047	10,411	C/V	F	340.11
UNC859	MS22TB-V	1	21.8	3,243	11,080	C/V	F	356.93
UNC850	MS26TB-T	1	26.0	4,011	13,705	C/V	F	348.39
UNC851	MS26TB-V	1	26.0	4,011	13,705	C/V	F	364.53
UNC852	MS34TB-T*	1.5/8	34.0	5,293	18,084	C/V	F	361.13
UNC853	MS34TB-V*	1.5/8	34.0	5,293	18,084	C/V	F	377.28

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

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

UNC340	NLY45LAa	1/6	4.6	205	699	C/V	F	128.05
UNC347	NLY60LAa	1/5	6.0	236	805	C/V	F	129.23
UNC352	NLY80LAa	1/4	8.1	356	1,215	C/V	F	170.75
UNC356	NLY90LAa	1/3	9.1	413	1,400	C/V	F	177.03
UNC362	NLY12LAa	3/8	10.7	488	1,665	C/V	F	181.40
UNC363	NPY12LAa	3/8	12.1	540	1,845	C/V	F	195.37
UNC366	NPY14LAa	1/2	14.3	651	2,221	C/V	F	202.75
UNC368	NPT16LA	1/2	16.2	756	2,579	C/V	F	208.53
UNC369	NPT18LA	5/8	18.0	866	2,956	C/V	F	215.23
UNC372	NX21FBa	3/4	20.7	907	3,095	C/V	F	328.88
UNC374	NX23FBa	7/8	23.2	1,002	3,419	C/V	F	354.85

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

UNC275	NLY45RAa	1/5	4.6	616	2,102	C/V	F	151.80
UNC279	NLY60RAa	1/4	6.0	837	2,856	C/V	F	159.18
UNC280	NLY75RAa	3/8	7.5	1,027	3,504	C/V	F	164.80
UNC282	NLY80RAa	3/8	8.1	1,111	3,791	C/V	F	166.62
UNC285	NLY90RAa	3/8	9.1	1,256	4,285	C/V	F	174.78
UNC286	NLY12RAa	1/2	10.7	1,454	4,960	C/V	F	180.99
UNC287	NPY12RAa	1/2	12.1	1,745	5,954	C/V	F	195.59
UNC291	NPT14RA	1/2	14.3	2,065	7,046	C/V	F	201.37
UNC294	NX21TBa	7/8	20.7	2,714	9,260	C/V	F	322.22

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

COMPRESSORS

Hermetic reciprocating

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	121.28
UNC920	GD40AA	1/10	4.1	95	324	C	S	133.04
UNC121	B43H	1/10	4.3	96	328	C	S	118.42
UNC933	GL45AAa	1/8	4.6	112	382	C	S	137.30
UNC935	GLY45AAa	1/8	4.6	121	413	C	S	141.03
UNC939	GL60AAa	1/6	6.0	147	502	C	S	148.39
UNC943	GLY60AAa	1/6	6.0	162	553	C	S	152.92
UNC945	GL80AAa	1/5	8.1	198	676	C	S	162.39
UNC953	GL90AAa	1/4	9.1	225	768	C	S	162.61
UNC960	GL99AAa	1/4	9.9	238	812	C	S	186.79
UNC958	GLM12LAa	1/3	10.7	262	894	C	S	175.43
UNC963	GP14CB	3/8	14.2	314	1071	C/V	F	192.78
UNC962	GP14FB	3/8	14.2	314	1071	C/V	F	194.13
UNC906	GP16CB	3/8	16.2	366	1249	C/V	F	207.96
UNC908	GP16FB	3/8	16.2	366	1249	C/V	F	234.56
UNC909	GPY16LAa	3/8	16.2	419	1430	C/V	F	215.86
UNC911	GX21FB	2/3	20.7	483	1648	C/V	F	301.83

Please note that once stock of the GD40AA has been exhausted, this compressor will be replaced by the B43H model.

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

UNC994	GD36MBd	1/10	3.6	314	1071	C/V	F	133.62
UNC145	B35GL	1/10	3.5	322	1100	C/V	S/F	118.93
UNC995	GD40MBd	1/8	4.1	361	1232	C/V	F	133.71
UNC151	B38G	1/8	3.8	345	1178	C/V	S/F	120.00
UNC968	GL45TB	1/6	4.5	409	1396	C/V	F	135.09
UNC969	GL60PB	1/5	5.7	523	1784	C	F	137.18
UNC970	GL60TB	1/5	5.7	523	1784	C/V	F	145.54
UNC971	GL80PB	1/5	7.6	663	2262	C	F	142.26
UNC972	GL80TB	1/5	7.6	663	2262	C/V	F	155.24
UNC973	GL90PB	1/4	8.9	791	2699	C	F	147.33
UNC974	GL90TB	1/4	8.9	791	2699	C/V	F	161.62
UNC999	GL11TB	3/8	11.0	977	3334	C/V	F	165.99
UNC261	GLY12RAa	3/8	10.7	1047	3572	C/V	F	180.06
UNC978	GP14TB	3/8	14.2	1198	4088	C/V	F	186.80
UNC262	GPY14RAa	3/8	14.3	1384	4722	C/V	F	192.34
UNC981	GP16TB	3/8	16.2	1442	4920	C/V	F	197.01
UNC264	GPY16RAa	1/2	16.1	1571	5361	C/V	F	204.35
UNC263	GX18TB	1/2	18.4	1663	5674	C/V	F	267.33
UNC267	GPT18RA	1/2	18.0	1739	5933	C/V	F	249.47
UNC266	GX21TB	5/8	20.7	1855	6329	C/V	F	282.13
UNC268	GX23TB	5/8	23.2	2070	7063	C/V	F	308.72
UNC986	GS26TB-T	3/4	25.9	2489	8492	C/V	F	339.95
UNC987	GS26TB-V	3/4	25.9	2489	8492	C/V	F	378.90
UNC989	GS30TB-V	7/8	30.0	2966	10120	C/V	F	441.30
UNC990	GS34TB-T	1	34.4	3409	11632	C/V	F	411.77
UNC991	GS34TB-V	1	34.4	3409	11632	C/V	F	426.73

Please note that once stocks of the GD36MBd and GD40MBd have been exhausted, these compressors will be replaced by the B35GL and B38G compressors respectively.



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.



EM Series

Hermetic reciprocating

Small size compressor with low noise and vibration levels. The EN series achieves the highest levels of efficiency available in their category. Ideal for domestic refrigeration and also for small commercial applications.



NE Series

Hermetic reciprocating

NE series compressors have two efficiency levels and are designed for commercial use. Compatible with variable speed technology VNEK. Ideal for dispensers, professional kitchens equipment, supermarket, bakeries equipment, horizontal freezers, icemakers, merchandisers, vending machines, wine coolers.



NT Series

Hermetic reciprocating

The NT series was developed to address the increasing demand for lower energy consumption and lower noise levels of commercial refrigeration equipment. Ideal for dispensers, professional kitchens equipment, supermarket and bakeries equipment, merchandisers, vending machines.



NJ Series

Hermetic reciprocating

The NJ series compressors offer the lowest noise levels in its category. They are equipped with an electric motor with internal protection. The series features versions with forced cooling and a low or high starting torque, ideal for refrigerated counters coolers for professional kitchens and cold rooms.

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			
EAC706	EMT2125GK	1/3	5.96	301	1,027	C/V	F	113.49
EAC721	NEK2134GK	1/2	8.78	464	1,583	C/V	F	137.08
EAC724	NEK2150GK	5/8	12.1	616	2,102	C/V	F	157.31
EAC727	NEK2168GK	3/4	14.3	704	2,402	C/V	F	174.16
EAC733	NT2178GK	7/8	17.4	788	2,689	C/V	F	220.23
EAC739	NT2180GK	1	20.4	934	3,187	C/V	F	230.34
EAC745	NT2192GK CSR	1.1/4	22.4	1,088	3,712	C/V	F	243.83
EAC747	NJ2192GK-V CSR	1.1/4	22.4	1,088	3,712	C/V	F	287.65
EAC751	NJ2212GK CSR	1.1/2	34.3	1,477	5,040	C/V	F	292.14
EAC752	NJ2212GK-V CSR	1.1/2	34.3	1,477	5,040	C/V	F	309.00

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

EAC800	EMT6144GK	1/6	3.97	680	2,320	C/V	F	98.88
EAC803	EMT6152GK	1/5	4.5	737	2,515	C/V	F	100.00
EAC806	EMT6165GK	1/4	5.2	881	3,006	C/V	F	107.87
EAC815	NEK6181GK	1/4	7.3	1,089	3,716	C/V	F	116.86
EAC818	NEK6210GK	1/3	8.7	1,303	4,446	C/V	F	122.48
EAC821	NEK6213GK	1/2	12.1	1,750	5,971	C/V	F	126.97
EAC827	NT6220GK CSR	5/8	14.5	2,119	7,230	C/V	F	234.84
EAC830	NT6222GK CSR	7/8	17.4	2,500	8,530	C/V	F	241.58
EAC833	NT6224GK CSR	1	20.4	3,512	11,983	C/V	F	253.94
EAC836	NT6226GK CSR	1	22.4	3,355	11,447	C/V	F	279.78
EAC840	NJ9226GK-V CSR	1	21.7	3,249	11,086	C/V	F	302.30
EAC842	NJ9232GK CSR	1.1/4	26.2	4,021	13,720	C/V	F	292.14
EAC843	NJ9232GK-V CSR	1.1/4	26.2	4,021	13,720	C/V	F	309.00
EAC845	NJ9238GK CSR	1.1/2	32.7	4,827	16,470	C/V	F	294.39

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

EAC627	NE2130Z	1/3	12.1	344	1,174	C/V	F	159.56
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COMPRESSORS

Hermetic reciprocating

R134A HIGH/MEDIUM BACK PRESSURE (8), -15°C TO +10°C

CODE	MODEL	APPROX HP	C.C	CAPACITY		CONTROL	COOLING	(KJ) LIST EA
				WATTS	BTU/HR			
EAC909	EMT6144Z	1/5	5.2	570	1,945	C/V	F	89.89
EAC911	EMT6160Z	1/4	6.7	720	2,457	C/V	F	97.82
EAC915	EMT6170Z	1/4	7.6	806	2,750	C/V	F	106.75
EAC921	NEK6170Z	1/4	8.4	837	2,856	C/V	F	107.87
EAC924	NEK6187Z	1/3	10.0	967	3,299	C/V	F	111.43
EAC927	NEK6210Z	1/3	12.1	1,140	3,890	C/V	F	142.70
EAC930	NEK6212Z	1/2	14.3	1,292	4,408	C/V	F	143.82
EAC933	NEK6214Z	1/2	16.8	1,486	5,070	C/V	F	183.15
EAC936	NT6215Z	5/8	17.4	1,608	5,486	C/V	F	209.00
EAC939	NT6220Z	3/4	22.4	2,016	6,879	C/V	F	261.81
EAC942	NJ6226Z CSR	1	34.3	2,969	10,130	C/V	F	329.18

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.



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

Capacities

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

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

Accessories pages 10 and 11. Use MTZ to replace MT compressor on R22.



MTZ Series

Hermetic reciprocating

Maneurop MTZ compressors are fully suction gas cooled. The MTZ series are hermetic reciprocating type and are designed for medium and high evaporating temperature applications. The MTZ models are charged with polyester oil.



NTZ Series

Hermetic reciprocating

The Maneurop NTZ series compressor is a range of hermetic reciprocating compressors for low evaporating temperature applications. The electrical motor is fully suction gas cooled.

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	1PH	S/GLASS + BAL	704.90
MAC405R	MTZ18/4ER(VE)	1.1/2	30	3,726	12,717	3PH	S/GLASS + BAL	704.90
MAC002R	MTZ22/5ER(VE)	1.3/4	38	4,777	16,304	1PH	S/GLASS + BAL	717.62
MAC004R	MTZ22/4ER(VE)	1.3/4	38	4,777	16,304	3PH	S/GLASS + BAL	711.26
MAC007R	MTZ28/5ER(VE)	2.1/4	48	6,127	20,911	1PH	S/GLASS + BAL	776.98
MAC009R	MTZ28/4ER(VE)	2.1/4	48	6,127	20,911	3PH	S/GLASS + BAL	760.02
MAC012R	MTZ32/5ER(VE)	2.3/4	54	6,941	23,694	1PH	S/GLASS + BAL	818.32
MAC022R	MTZ32/4ER(VE)	2.3/4	54	6,941	23,694	3PH	S/GLASS + BAL	825.74
MAC034R	MTZ36/5ER(VE)	3	61	7,994	27,283	1PH	S/GLASS + BAL	1,033.50
MAC042R	MTZ36/4ER(VE)	3	61	7,994	27,283	3PH	S/GLASS + BAL	944.46
MAC062R	MTZ40/4ER(VE)	3.1/2	68	9,128	31,153	3PH	S/GLASS + BAL	1,067.42
MAC072R	MTZ44/4ER(VE)	3.3/4	76	9,867	33,675	3PH	S/GLASS + BAL	1,285.78
MAC082R	MTZ50/4ER(VE)	4	86	11,266	38,450	3PH	S/GLASS + BAL	1,343.02
MAC084R	MTZ50/5ER(VE)	4	86	11,266	38,450	1PH	S/GLASS + BAL	1,343.02
MAC092R	MTZ56/4ER(VE)	4.1/2	96	12,944	44,177	3PH	S/GLASS + BAL	1,331.36
MAC102R	MTZ64/4ER(VE)	5	108	14,587	49,785	3PH	S/GLASS + BAL	1,455.38
MAC112R	MTZ72/4ER(VE)	6	121	16,380	55,904	3PH	S/GLASS + BAL	1,701.30
MAC122R	MTZ80/4ER(VE)	6.1/2	136	18,525	63,225	3PH	S/GLASS + BAL	1,820.02
MAC142R	MTZ100/4ER(VE)	8.1/2	171	22,111	75,464	3PH	S/GLASS + BAL	2,619.26
MAC162R	MTZ125/4ER(VE)	10	215	29,212	99,699	3PH	S/GLASS + BAL	3,124.88
MAC172R	MTZ144/4ER(VE)	11.1/2	242	32,934	112,406	3PH	S/GLASS + BAL	3,357.02
MAC182R	MTZ160/4ER(VE)	13	272	37,386	127,597	3PH	S/GLASS + BAL	3,591.28

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

MAC304	NTZ048-5LR1	1.3/4	48	1,430	4,880	1PH	S/GLASS + BAL	652.96
MAC305	NTZ048-4LR1	1.3/4	48	1,430	4,880	3PH	S/GLASS + BAL	652.96
MAC309	NTZ068-5LR1	2.1/4	68	2,140	7,304	1PH	S/GLASS + BAL	775.92
MAC315	NTZ068-4LR1	2.1/4	68	2,140	7,304	3PH	S/GLASS + BAL	775.92
MAC332	NTZ096-4LR1	3.1/2	96	3,090	10,546	3PH	S/GLASS + BAL	961.42
MAC344	NTZ108-4LR1	3.3/4	108	3,570	12,184	3PH	S/GLASS + BAL	1,012.30
MAC354	NTZ136-4LR1	4	136	4,510	15,392	3PH	S/GLASS + BAL	1,279.42
MAC364	NTZ215-4LR1	7	215	7,140	24,369	3PH	S/GLASS + BAL	2,348.96
MAC374	NTZ271-4LR1	8.1/2	272	9,000	30,716	3PH	S/GLASS + BAL	2,546.12

COMPRESSORS

Hermetic scroll



Copeland

Hermetic scroll

With Rotalock threaded stubs, oil sightglass and ester oil
Ability to start under any system load, without start components
Easy to service and maintain due to their compact size and lightweight, simple design
Engineered for optimum performance with today's chlorine-free refrigerants

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	



Panasonic

Scroll compressor

Panasonic refrigeration scroll compressor with braze connections. 3Ph compressors are also suitable for 440-460V/60Hz supply.

Capacities

(1) Capacity at +7.2°C evap, 54.4°C Cond (2) Capacity at -5°C evap, 55°C Cond

R407C/R134A/R404A, MEDIUM BACK PRESSURE (1), +12°C TO -15°C EVAPORATING, 220-240V/50HZ

CODE	MODEL	APPROX HP	C.C	CAPACITY			SHELL TYPE	CONNS	(AP) £ LIST EA
				R407C	R134A	R404A (2)			
PSC005	C-SBN261H5A	3.5	55.7	9,700	6,700	6,070	STD	BRAZED	484.00
PSC010	C-SBN301H5A	4	66.8	11,800	8,250	7,330	STD	BRAZED	534.00
PSC020	C-SBS180H15A	5	83.2	14,500	10,150	8,980	STD	BRAZED	628.00
PSC025	C-SBS200H15A	5.8	93.1	16,400	11,480	9,580	STD	BRAZED	779.00

R407C/R134A/R404A, MEDIUM BACK PRESSURE (1), +12°C TO -15°C EVAPORATING, 380-415V/50HZ

PSC030	C-SBN263H8A	3.5	55.7	9,600	6,500	6,280	STD	BRAZED	484.00
PSC035	C-SBN303H8G	4	66.8	11,600	8,000	7,540	S/G + BAL	BRAZED	537.00
PSC040	C-SBN353H8G	4.5	77.4	13,400	9,300	8,230	S/G + BAL	BRAZED	638.00
PSC045	C-SBN373H8G	5	83.2	14,500	10,010	9,160	S/G + BAL	BRAZED	650.00
PSC050	C-SBN453H8G	6	100.0	17,600	12,210	9,990	S/G + BAL	BRAZED	680.00
PSC055	C-SBS235H38B	7	110.2	19,500	13,500	11,870	S/G + BAL	BRAZED	754.00
PSC060	C-SCN603H8K	8	137.0	24,500	16,710	13,350	S/G + BAL	BRAZED	983.00
PSC065	C-SCN673H8K	9	148.8	26,500	18,000	16,180	S/G + BAL	BRAZED	1,141.00
PSC070	C-SCN753H8K	10	171.2	29,900	20,300	18,910	S/G + BAL	BRAZED	1,325.00
PSC075	C-SCN903H8K	12	205.4	34,900	24,610	21,710	S/G + BAL	BRAZED	1,371.00



Panasonic

Inverter scroll compressor

Capacities

(5) Capacity at -25°C evap, 45°C Cond (4) Capacity at -5°C evap, 45°C Cond (3) Capacity at -23.3°C evap, 48.9°C Cond

3Ph compressors are also suitable for 440-460V/60Hz supply

1

R404A, LOW BACK PRESSURE (3), -5°C TO -45°C EVAPORATING, 380-415V/50HZ

CODE	MODEL	APPROX HP	C.C	CAPACITY			SHELL TYPE	CONNS	(AP) £ LIST EA
				R404A	R407F	R449A			
PSC105	C-SCN373L8A	5	83.2	6,800	TBA	TBA	S/G	BRAZED	635.00
PSC110	C-SCN453L8H	6	104.0	8,100	TBA	TBA	S/G	BRAZED	1,748.00
PSC115	C-SCN523L8H	7	120.0	9,250	TBA	TBA	S/G	BRAZED	1,779.00
PSC120	C-SCN603L8H	8	137.0	10,500	TBA	TBA	S/G	BRAZED	1,810.00
PSC125	C-SCN753L8H	10	171.2	13,050	TBA	TBA	S/G	BRAZED	1,864.00

R410A, MEDIUM BACK PRESSURE (1), +12°C TO -15°C, 230-240V/50HZ

CODE	MODEL	APPROX HP	C.C	CAPACITY			SHELL TYPE	CONNS	(AP) £ LIST EA
				R410A					
PSC150	C-SBP120H15A	3.5	39.9	9,800	-	-	STD	BRAZED	493.00
PSC160	C-SBP160H15A	4.6	51.8	13,000	-	-	STD	BRAZED	547.00

R410A, MEDIUM BACK PRESSURE (1), +12°C TO -15°C, 380-415V/50HZ

PSC165	C-SBP120H38B	3.5	39.9	10,000	-	-	S/G + BAL	BRAZED	494.00
PSC170	C-SBP140H38B	4	46.4	11,700	-	-	S/G + BAL	BRAZED	530.00
PSC175	C-SBP160H38B	4.6	51.8	13,200	-	-	S/G + BAL	BRAZED	547.00
PSC180	C-SBP170H38B	5	54.8	14,200	-	-	S/G + BAL	BRAZED	578.00
PSC185	C-SBP205H38B	6	66.9	16,900	-	-	S/G + BAL	BRAZED	604.00
PSC190	C-SBP235H38B	7	76.0	19,600	-	-	S/G + BAL	BRAZED	893.00
PSC195	C-SCP270H38B	8	89.2	22,400	-	-	S/G + BAL	BRAZED	1,259.00
PSC200	C-SCP315H38B	10	104.1	26,000	-	-	S/G + BAL	BRAZED	1,294.00
PSC205	C-SCP360H38B	11	120.2	29,800	-	-	S/G + BAL	BRAZED	1,329.00
PSC210	C-SCP400H38B	12	131.9	32,800	-	-	S/G + BAL	BRAZED	1,364.00
PSC215	C-SCP435H38B	13	148.8	37,190	-	-	S/G + BAL	BRAZED	1,472.00
PSC220	C-SCP510H38B	15	171.2	43,900	-	-	S/G + BAL	BRAZED	1,578.00

Panasonic

Inverter scroll

R404A/R407F – MEDIUM BACK PRESSURE (4) +12°C TO -15°C EVAPORATING, 380-415V/50HZ

CODE	MODEL	APPROX HP	C.C	CAPACITY (W)		SHELL TYPE	CONNS	(AP) £ LIST EA
				R404A	R407F			
PSC300	C-SBS180H00B	5	55.7	12,980	TBA	S/G + BAL	BRAZED	1,194.80

R404A/R407F – LOW BACK PRESSURE (5) -5°C TO -45°C EVAPORATING, 380-415V/50HZ

PSC305	C-SCVN603L0J	8	144.1	15,500	TBA	S/G + BAL	BRAZED	2,458.61
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DRIVER FOR AC INVERTER

CODE	MODEL	APPLICATION	£ LIST EA
PSC900	SV-iG5A	HBP COMP	3,578.00
PSC905	SV-110iG5A	LBP COMP	3,579.00

ROTALOCK ADAPTORS

CODE	COMP TYPE	TYPE	CONN ODS X ROT	£ LIST EA
PSC700	C-SB MODELS	SUCTION	3/4 x 1.1/4	9.34
PSC705	C-SB MODELS	DISCH	5/8 x 1	8.96
PSC710	C-SC MODELS	SUCTION	1.1/8 x 1.3/4	11.28
PSC715	C-SC MODELS	SUCTION	7/8 x 1.1/4"	9.34

ROTALOCK VALVES

MAS520	C-SB MODELS	SUCTION	1.1/4 X 7/8	50.83
MAS500	C-SB MODELS	DISCH	1 x 1/2	32.52
MAS525	C-SC MODELS	SUCTION	1.3/4 x 1.1/8	75.16
MAS510	C-SC MODELS	DISCH	1.1/4 x 3/4	49.60

COMPRESSORS

Hermetic scroll



SZ Series

Hermetic scroll

Capacity at cond +50°C, MHBP evap +5°C, R407C

Danfoss Scroll compressor SZ series has the following features:

Gas circulation, motor cooling and oil behaviour are improved by a new patented motor cap design.

Part protection and assembly reduces internal leaks and increases life durability.

Improved part isolation reduces greatly acoustic levels.

Gas intake design induces higher resistance to liquid slugging.

R404A/R507 – MEDIUM BACK PRESSURE +10°C TO –15°C EVAPORATING

CODE	MODEL	APPROX HP	M³/H	CAPACITY		SHELL TYPE	CONNS *SEE NOTES	(MA) LIST EA
				WATTS	BTU/HR			
MSC035R	SZ084-4V	8.7	20	18,800	64,200	S/G + BAL	BRAZED*	2,036.26
MSC040R	SZ090-4V	8.7	21	19,900	67,900	S/G + BAL	BRAZED*	2,153.92
MSC045R	SZ100-4V	9.2	22	21,100	71,700	S/G + BAL	BRAZED*	2,308.68
MSC047R	SZ110-4V	10.4	25	24,000	81,900	S/G + BAL	BRAZED*	2,451.78
MSC052R	SZ120-4V	12.0	29	27,900	95,200	S/G + BAL	BRAZED*	2,560.96
MSC058R	SZ161-4V	15.5	38	36,000	124,900	S/G + BAL	BRAZED*	3,123.82
MSC060R	SZ175-4R	17.0	41	39,200	133,800	S/G + BAL	ROTALOCK	3,316.74
MSC065R	SZ185-4R	18.3	43	42,100	143,700	S/G + BAL	ROTALOCK	3,549.94
MSC095R	SZ240-4A	20.0	60	69,200	236,177	S/G + BAL	BRAZED*	5,779.12
MSC100R	SZ300-4A	25.0	76	85,500	291,808	S/G + BAL	BRAZED*	6,245.52

All models are three phase. Braze to Rotalock adaptors available - page 11. Tandem, triple and quad scrolls available.

Maneurop Accessories

STARTING EQUIPMENT

CODE	DESCRIPTION	SUITABLE FOR	(MB) £ LIST EA
MAS631	1PHASE CSR2 (HST) ELECTRICS KIT	MTZ18/5-MTZ28/5, NTZ048/5 - NTZ068/5	102.63
MAS633	1 PHASE CSR2 (HST) ELECTRICS KIT	MTZ32/5- - MTZ36/5	104.97
MAS635	1 PHASE CSR2 (HST) ELECTRICS KIT	MTZ50/5	134.01
MAS642	1 PHASE CSR2 (HST) PRE-WIRED BOX	MTZ18/5-MTZ28/5, NTZ048/5 - NTZ068/5	265.02
MAS643	1 PHASE CSR2 (HST) PRE-WIRED BOX	MTZ32/5- - MTZ36/5	265.02
MAS650	STARTING RELAY	PSC, CSR2 ELECTRICS	76.93
MAS666	10MFD CAPACITOR 440V	PSC, CSR2 ELECTRICS	14.87
MAS670	20MFD CAPACITOR 440V	PSC, CSR2 ELECTRICS	17.88
MAS672	25MFD CAPACITOR 440V	PSC, CSR2 ELECTRICS	33.03
MAS674	30MFD CAPACITOR 440V	PSC, CSR2 ELECTRICS	38.48
MAS676	100MFD CAPACITOR 330V	PSC, CSR2 ELECTRICS	34.19
MAS678	135MFD CAPACITOR 330V	PSC, CSR2 ELECTRICS	35.52

CRANKCASE HEATERS - MUST BE FITTED

MAS587	30 WATT PTC 200-600V HEATER	ALL RECIP MODELS EXCEPT 8 CYL	25.93
MAS591	HEATER (BELT) 240V	SCROLL MODELS 084 TO 160	72.44
MAS593	HEATER (BELT) 240V	SCROLL MODELS 240 TO 300	90.14

Maneurop Accessories

ROTALOCK VALVES AND ANGLED (90°) ADAPTORS

CODE	DESCRIPTION	SUITABLE FOR	(MB) £ LIST EA
MAS490	V01 3/8"ODS x 1" DISCHARGE VALVE	MTZ18, MTZ22, MTZ28	31.49
MAS500	V06 1/2"ODS x 1" SUCTION VALVE	MTZ18, MTZ22, MTZ28	33.98
MAS500	V06 1/2"ODS x 1" DISCHARGE VALVE	MTZ32, MTZ36, MTZ40, NTZ048, NTZ068	33.98
MAS505	V09 5/8"ODS x 1.1/4" SUCTION VALVE	MTZ32, MTZ36, MTZ40, NTZ048, NTZ068	33.98
MAS510	V04 3/4"ODS x 1.1/4" DISCHARGE VALVE	MTZ44, 50, 56, 64, 72, 80, NTZ096-271, SZ115-125	51.83
MAS515	V07 7/8"ODS x 1.3/4" SUCTION VALVE	MTZ44, 50, 56, 64, 72, 80, NTZ096, 108	61.43
MAS520	V05 7/8"ODS x 1.1/4" DISCHARGE VALVE	MTZ100, 125, 160, SZ115-125	53.12
MAS525	V02 1.1/8"ODS x 1.3/4" SUCTION VALVE	MTZ80, 100, 125, 160, NTZ136-271, SZ115-125	78.54
MAS528	V10 1.3/8"ODS x 1.3/4" SUCTION VALVE	SZ115-125	133.69
MAS518	V08 1.3/8"ODS x 2.1/4" SUCTION VALVE	SZ175-185	114.40
MAS513	V03 1.5/8"ODS x 2.1/4" SUCTION VALVE	SZ175-185	106.34
MAS535	BRAZE TO ROTALOCK ADAPTOR	SM/SZ084, 090, 100	69.04
MAS536	BRAZE TO ROTALOCK ADAPTOR	SM/SZ 110, 120	46.29
MAS577	ROTALOCK SEAL SET	MTZ18-160, all NTZ	8.80
MAS578	ROTALOCK SEAL SET	MTZ200-320	16.98
MAS579	ROTALOCK SEAL SET	ALL SCROLL	7.64

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

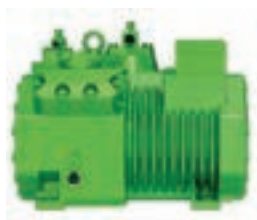
CODE	DESCRIPTION	SUITABLE FOR	(MB) £ LIST EA
MAS600	MANEUROP WHITE OIL - 2LTR CAN-160P	ALL MANEUROP COMPS FOR R22/502/12/403a	36.76
MAS601	MANEUROP WHITE OIL - 5LTR CAN-160P	ALL MANEUROP COMPS FOR R22/502/12/403a	70.23
MAS603	MANEUROP ESTER OIL - 1LTR CAN-160PZ	ALL MANEUROP MTZ, R134A, R404A, R407C, R507	58.39
MAS602	MANEUROP ESTER OIL - 2.5LTR CAN-160PZ	ALL MANEUROP MTZ, R134A, R404A, R407C, R507	103.75
MAS605	MANEUROP ESTER OIL - 1LTR CAN-160SZ	MANEUROP SCROLL (NOT MLZ) & NTZ	60.67
MAS606	MANEUROP ESTER OIL - 2.5LTR CAN-160SZ	MANEUROP SCROLL (NOT MLZ) & NTZ	107.50
MAS608	MANEUROP PVE OIL - 1LTR CAN-PVE320HV	MANEUROP MLZ SCROLL	120.84

ACOUSTIC NOISE REDUCTION COVERS

CODE	DESCRIPTION	SUITABLE FOR	(MB) £ LIST EA
HUT001	ACOUSTIC HOOD - 1 CYL COMPRESSORS	MTZ18-MTZ40; NTZ048-NTZ068	133.76
HUT002	ACOUSTIC HOOD - 2 CYL COMPRESSORS	MTZ44-MTZ80; NTZ096-NTZ108	161.98
HUT003	ACOUSTIC HOOD - 4 CYL COMPRESSORS	MTZ100-MTZ160; NTZ136-NTZ271	212.14
HUT004	ACOUSTIC HOOD - SCROLL COMPRESSORS	SM/Z084, SM/Z090, SM/Z100	260.21
HUT005	ACOUSTIC HOOD - SCROLL COMPRESSORS	SM/Z110, SM/Z120	277.97
HUT006	ACOUSTIC HOOD - SCROLL COMPRESSORS	SM/Z115, SM/Z125	272.75
HUT007	ACOUSTIC HOOD - SCROLL COMPRESSORS	SM/Z175, SM/Z185	310.37
HUT008	ACOUSTIC HOOD - SCROLL COMPRESSORS	SM/Z160	279.02

COMPRESSORS

Semi-hermetic



Ecoline

Semi hermetic compressor

The ECOLINE range is the creative advancement of the proven, robust and powerful semi-hermetic reciprocating compressors from BITZER. It combines high efficiency, smooth running, a wide range of applications, flexibility in refrigerant selection, solid design and high reliability.

BITZER ECOLINE - CENTRIFIGAL LUBRICATION

CODE	MODEL	SUPPLY	(RL) £ LIST
BTC100	2KES-05Y	3PH	1,502.28
BTC102	2JES-07Y	3PH	1,518.48
BTC104	2HES-1Y	3PH	1,533.60
BTC108	2HES-2Y	3PH	1,562.76
BTC112	2GES-2Y	3PH	1,562.76
BTC116	2FES-2Y	3PH	1,1628.64
BTC120	2FES-3Y	3PH	1,706.40
BTC122	2EES-2Y	3PH	2,273.40
BTC124	2EES-3Y	3PH	2,451.60
BTC126	2DES-2Y	3PH	2,364.12
BTC128	2DES-3Y	3PH	2,464.56
BTC130	2CES-3Y	3PH	2,451.60
BTC132	2CES-4Y	3PH	2,558.52
BTC134	4FES-3Y	3PH	2,657.88
BTC136	4FES-5Y	3PH	2,935.44
BTC138	4EES-4Y	3PH	2,722.68
BTC140	4EES-6Y	3PH	3,120.12
BTC142	4DES-5Y	3PH	3,420.36
BTC144	4DES-7Y	3PH	3,595.32
BTC164	4CES-6Y	3PH	3,757.32
BTC148	4CES-9Y	3PH	3,903.12
BTC200	4VES-7Y	PWS	4,894.56
BTC202	4VES-10Y	PWS	5,092.20
BTC204	4TES-9Y	PWS	5,024.16
BTC206	4TES-12Y	PWS	5,244.48
BTC208	4PES-12Y	PWS	5,450.76
BTC210	4PES-15Y	PWS	5,687.28
BTC212	4NES-14Y	PWS	6,137.64
BTC214	4NES-20Y	PWS	6,513.48

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 motors for codes BTC100 to BTC148, Part Wind start motors for codes BTC200 to BTC214.

Tandem compressors, also available, 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 ECOLINE - OIL PUMP LUBRICATION

CODE	MODEL	SUPPLY	(RL) £ LIST
BTC284	6GE-40Y	PWS	12,559.32
BTC286	6FE-44Y	PWS	14,248.44
BTC290	6FE-50Y	PWS	14,632.92
BTC292	8GE-50Y	PWS	17,496.00
BTC294	8GE-60Y	PWS	17,898.84
BTC296	8FE-60Y	PWS	18,520.92
BTC298	8FE-70Y	PWS	19,438.91



BITZER STAGE 2 Semi hermetic compressor

The semi-hermetic reciprocating compressors, which compress the refrigerant in two stages, are optimized for the low-temperature refrigeration range. Liquid sub cooling significantly increases the cooling capacity and efficiency of the entire system.

BTC360	S4T-5.2Y 2 STAGE	PWS	6,611.76
BTC362	S4N-8.2Y 2 STAGE	PWS	7,282.44
BTC364	S4G-12.2Y 2 STAGE	PWS	10,063.44
BTC366	S6J-16.2Y 2STAGE	PWS	12,507.48
BTC368	S6H-20.2Y 2 STAGE	PWS	12,823.92
BTC370	S6G-25.2Y 2 STAGE	PWS	14,356.44
BTC372	S6F-30.2Y 2 STAGE	PWS	16,891.20

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 BTC284 to BTC372

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 compressors, also available, 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.

CONDENSING UNITS

Hermetic reciprocating



cubigel[®]
compressors

Hermetic reciprocating condensing unit

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.

TB3_2F are twin fan, low profile.

Condensing units for R290 on request.

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	348	183	C	-	3/8	1/4	5	221.54
UNU968	CGL45TB3	1/6	348	183	C/V	0.9	3/8	1/4	5	255.03
UNU969	CGL60PB2	1/5	473	232	C	-	3/8	1/4	5	234.42
UNU970	CGL60TB3	1/5	473	232	C/V	0.9	3/8	1/4	5	263.05
UNU972	CGL80TB3	1/4	534	285	C/V	0.9	3/8	1/4	5	265.13
UNU974	CGL90TB3	1/4	650	341	C/V	0.9	3/8	1/4	5	280.87
UNU630	CGLY12RA2	3/8	810	422	C	-	3/8	1/4	2 or 5	279.53
UNU635	CGLY12RA3	3/8	810	422	C/V	0.9	3/8	1/4	2 or 5	291.59
UNU975	CGP12PB2	3/8	859	448	C	-	3/8	1/4	2 or 5	280.04
UNU976	CGP12TB3	3/8	859	448	C/V	0.9	3/8	1/4	2 or 5	297.13
UNU978	CGP14TB3	3/8	945	498	C/V	0.9	3/8	1/4	2 or 5	347.40
UNU980	CGPY16RA3	3/8	1149	644	C/V	1.1	3/8	3/8	2 or 5	380.72
UNU981	CGX18TB3	5/8	1269	674	C/V	1.1	3/8	3/8	2 or 5	464.72
UNU983	CGX21TB3	5/8	1429	759	C/V	1.1	3/8	3/8	2 or 5	481.07
UNU985	CGX23TB3	5/8	1602	906	C/V	1.1	3/8	3/8	3 or 5	492.08
UNU987	CGS26TB3	3/4	1851	989	C/V	2.4	5/8	3/8	3 or 5	502.96
UNU989	CGS30TB3	7/8	2207	1134	C/V	2.4	5/8	3/8	3 or 5	549.49
UNU991	CGS34TB3	1	2386	1283	C/V	2.4	5/8	3/8	3 or 5	579.07

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

UNU802	CML90FB3	1/3	-	596	C/V	1.1	3/8	1/4	5	286.94
UNU780	CMLY12LAa3	3/8	-	842	C/V	1.1	3/8	1/4	5	313.74
UNU803	CMPT12LAa3	3/8	-	907	C/V	1.1	3/8	1/4	5	326.18
UNU805	CMP14FB3	1/2	-	857	C/V	1.1	3/8	1/4	5	340.87
UNU806	CMPT14LA3	1/2	-	959	C/V	1.1	3/8	3/8	2 or 5	330.73
UNU807	CMX18FBa3	5/8	-	1123	C/V	1.1	3/8	3/8	2 or 5	491.16
UNU809	CMX21FBa3	3/4	-	1369	C/V	1.1	3/8	3/8	2 or 5	494.30
UNU812	CMX23FBa3	7/8	-	1542	C/V	1.1	3/8	3/8	2 or 5	497.33
UNU813	CMS26FB3	3/4	-	1905	C/V	2.4	1/2	3/8	3 or 5	518.62
UNU815	CMS30FB3	7/8	-	2053	C/V	2.4	5/8	3/8	3 or 5	539.76
UNU817	CMS34FB3	1	-	2396	C/V	2.4	5/8	3/8	3 or 5	560.82

CONDENSING UNITS

Hermetic reciprocating

1

R404A/R407C 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		
UNU834	CML45TB3	1/5	541	328	C/V	0.9	3/8	1/4	5	267.72
UNU836	CML60TB3	1/4	675	409	C/V	0.9	3/8	1/4	5	292.50
UNU838	CML80TB3	3/8	936	567	C/V	1.1	3/8	1/4	2 or 5	300.26
UNU840	CML90TB3	3/8	1064	646	C/V	1.1	3/8	3/8	2 or 5	315.91
UNU797	CMLT12RA3	1/2	1450	850	C/V	1.1	3/8	3/8	2 or 5	406.27
UNU841	CMPT12RA3	1/2	1631	958	C/V	2.4	3/8	3/8	3 or 5	430.58
UNU845	CMPT14RA3	1/2	1848	1080	C/V	2.4	3/8	3/8	3 or 5	461.90
UNU854	CMX18TB3a*	7/8	1882	1206	C/V	2.4	3/8	3/8	3 or 5	530.11
UNU864	CMX21TB3a*	1	2107	1265	C/V	2.4	3/8	3/8	6	591.29
UNU866	CMX21TB3aL*	1	1841	1164	C/V	2.4	3/8	3/8	3 or 5	512.23
UNU857	CMS22TB3	1	2331	1354	C/V	2.4	1/2	3/8	6	608.89
UNU851	CMS26TB3	1.3/8	3030	1853	C/V	2.4	5/8	3/8	6	681.95
UNU852	CMS26TB3L	1.3/8	2733	1652	C/V	2.4	5/8	3/8	3 or 5	551.32
UNU858	CMS26TB3_2F	1.3/8	2990	1834	C/V	2.4	5/8	3/8	-	722.16
UNU853	CMS34TB3	1.5/8	3984	2424	C/V	2.4	5/8	3/8	6	703.47
UNU859	CMS34TB3_2F	1.5/8	3705	2237	C/V	2.4	5/8	3/8	-	752.18

*Units marked with an asterisk are limited to -15°C as the lowest evaporating temperature.
Units with suffix _2F are have a twin fan condenser.

R290 MEDIUM/HIGH BACK PRESSURE, -15°C TO +10°C EVAPORATING

UNU268	CNLY45RAa3N	1/5	510	288	C/V	0.9	3/8	1/4	2 or 5	287.23
UNU270	CNLY60RAa3N	1/4	694	395	C/V	0.9	3/8	1/4	2 or 5	312.58
UNU272	CNLY75RAa3N	3/8	877	473	C/V	1.1	3/8	1/4	2 or 5	320.54
UNU274	CNLY80RAa3N	3/8	920	524	C/V	1.1	3/8	1/4	2 or 5	321.66
UNU276	CNLY90RAa3N	3/8	951	541	C/V	1.1	3/8	1/4	2 or 5	337.77
UNU278	CNPY12RAa3N	1/2	1483	826	C/V	2.4	3/8	3/8	3 or 5	442.12
UNU293	CNPT14RA3N	1/2	1759	979	C/V	2.4	3/8	3/8	3 or 5	458.24
UNU296	CNX18TBa3M	7/8	1934	1101	C/V	2.4	3/8	3/8	3 or 5	530.35
UNU298	CNX18TBa3N	7/8	1934	1101	C/V	2.4	3/8	3/8	3 or 5	607.46
UNU300	CNX21TBa3N	1	2278	1180	C/V	2.4	3/8	3/8		621.38

Models with a suffix N are rated for up to 43°C ambient, models with suffix M are rated up to 38°C ambient.

CONDENSING UNITS

Hermetic reciprocating



Optyma

MCZC

Capacity:

2) Optimised for R404A at 32°C ambient.

Maneurop condensing unit Optyma MCZC series. R404A/R507 are the main refrigerants for MBP commercial refrigeration, also suitable for R407A and R407F. Optyma™ condensing units can work from -30°C up to +10°C evaporating temperature. Units include dual HP/LP switch with Gomax pressure lines, crankcase heater, liquid receiver, and fully pre-wired terminal box as standard.

R404A/R507/R134A/R407A/R407F - MEDIUM/HIGH BACK PRESSURE (2) -20°C TO +10°C EVAPORATING

CODE	MODEL	COMP. MODEL	CAPACITY (WATTS)		SUPPLY (50Hz)		RECEIVER (LITRE)	(NA) LIST £ EA
			0°C	-15°C	COMP	FAN		
MCU154	MCZC030MTA02G	MTZ18	2,950	1,550	230.1	230.1	3	876.62
MCU158	MCZC030MTA02E	MTZ18	2,950	1,550	400.3	230.1	3	829.98
MCU164	MCZC038MYA02G	MTZ22	4,000	2,150	230.1	230.1	3	981.56
MCU168	MCZC038MTA02E	MTZ22	4,000	2,150	400.3	230.1	3	935.98
MCU185	MCZC048MTA02G	MTZ28	5,300	2,900	230.1	230.1	6	1,162.82
MCU188	MCZC048MTA02E	MTZ28	5,300	2,900	400.3	230.1	6	1,117.24
MCU204	MCZC054MTA02G	MTZ32	5,800	3,300	230.1	230.1	6	1,253.98
MCU208	MCZC054MTA02E	MTZ32	5,800	3,300	400.3	230.1	6	1,208.40
MCU238	MCZC060MTA02G	MTZ36	6,550	3,800	230.1	230.1	6	1,370.58
MCU242	MCZC060MTA02E	MTZ36	6,550	3,800	400.3	230.1	6	1,323.94
MCU029	MGZD068MTA02E	MTZ40	8,500	4,800	400.3	230.1	8	1,512.62
MCU304	MCZC086MTA02E	MTZ50	8,950	5,050	400.3	230.1	8	1,669.50
MCU322	MCZC096MTA02E	MTZ056	9,900	5,500	400.3	230.1	8	1,763.84
MCU352	MCZC108MTA02E	MTZ064	11,850	6,600	400.3	230.1	8	2,014.00
MCU039	MGZD121MTA02E	MTZ072	13,700	7,600	400.3	230.1	10	2,228.12
MCU041	MGZD136MTA02E	MTZ080	16,200	9,200	400.3	230.1	10	2,397.72
MCU396	MCZC171MTA02E	MTZ100	17,300	9,950	400.3	230.1	14	3,132.30

Models with prefix MCZC are single condenser fan, models with prefix MGZD are twin condenser fan.

Optyma

LCQC/LGQC

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

CODE	MODEL	COMP. MODEL	CAPACITY (WATTS)		SUPPLY (50Hz)		RECEIVER (LITRE)	(NA) LIST £ EA
			-20°C	-35°C	COMP	FAN		
MCU433	LCQC048NTA02G	NTZ048	2,000	900	230.1	230.1	3	1,070.60
MCU434	LCQC048NTA02E	NTZ048	2,000	900	400.3	230.1	3	1,019.72
MCU445	LCQC068NTA02G	NTZ068	3,350	1,650	230.1	230.1	6	1,357.86
MCU446	LCQC068NTA02E	NTZ068	3,350	1,650	400.3	230.1	6	1,308.04
MCU454	LCQC096NTA02E	NTZ096	4,050	1,850	400.3	230.1	6	1,406.62
MCU465	LGQC108NTA02E	NTZ108	5,050	2,350	400.3	230.1	8	1,818.96
MCU475	LGQC136NTA02E	NTZ136	6,400	3,000	400.3	230.1	8	2,109.40

Models with prefix LCQC are single condenser fan, models with prefix LGQC are twin condenser fan.

CONDENSING UNITS

Hermetic reciprocating

Maneurop

Condensing units accessories

FAN MOTOR ASSEMBLIES - OPTYMA UNITS

CODE	MODEL	(MB) £ LIST
MCU530	1PH MOTOR ASSEMBLY – MGZD030	178.75
MCU534	1PH MOTOR ASSEMBLY – MCZC030, MGZD038-054	254.37
MCU536	1PH MOTOR ASSEMBLY – MCZC038-060, MGZD060-096, LCHC068-096	281.88
MCU538	1PH MOTOR ASSEMBLY – MCZC068-096, MGZD108-121, LCHC108-136	395.31
MCU540	1PH MOTOR ASSEMBLY – MGZD136-171	428.54
MCU786	1PH MOTOR ASSEMBLY – MCZC108-171, MGZD215-242, LCHC215-271	1,133.24
MCU788	1PH MOTOR ASSEMBLY – MGZD271	1,026.67

Motor assembly includes motor, blade, guard and brackets.

FAN MOTOR ASSEMBLIES – OPTYMA PLUS UNITS

CODE	MODEL	(MB) £ LIST
MCU800	1PH MOTOR ASSEMBLY (25W) – MPH018, LPHC018-026	179.02
MCU802	1PH MOTOR ASSEMBLY (75W) – MPZC030-060, LPHC048-068	187.33
MCU804	1PH MOTOR ASSEMBLY (130W) – MPZC086-215, LPHC096-271	220.37
MCU806	FAN BLADE (14”) – MPH018, LPHC018-026	24.81
MCU808	FAN BLADE (16”) – MPZC030-060, LPHC048-068	38.58
MCU810	FAN BLADE (24”) – MPZC086-215, LPHC096-271	71.62

FAN MOTOR ASSEMBLIES – BLUE STAR UNITS

CODE	MODEL	(MB) £ LIST
MCU530	1PH MOTOR ASSEMBLY – A3/B3/C3	178.75
MCU534	1PH MOTOR ASSEMBLY (S2) – D3/E3/F3	254.37
MCU536	1PH MOTOR ASSEMBLY – G3/H3	281.88
MCU538	1PH MOTOR ASSEMBLY – J3	395.31
MCU540	1PH MOTOR ASSEMBLY – K3/L3/M3/N3	428.54
MCU542	1PH MOTOR ASSEMBLY – P3/Q3	1,239.80
MCU550	3PH MOTOR ASSEMBLY – A3/B3/C3	221.14
MCU554	3PH MOTOR ASSEMBLY (S2) – D3/E3/F3	254.37
MCU556	3PH MOTOR ASSEMBLY – G3/H3	263.65
MCU558	3PH MOTOR ASSEMBLY – J3	387.30
MCU560	3PH MOTOR ASSEMBLY – K3/L3/M3/N3	558.03
MCU562	3PH MOTOR ASSEMBLY – P3/Q3	1,066.78

Motor assembly includes motor, blade, guard and brackets.

SOFT STARTING EQUIPMENT

CODE	MODEL	SUITABLE FOR	(MB) £ LIST
MAS696	1 PHASE SOFT START 25A	MTZ 18-50, NTZ 048-068	248.72
MAS697	3 PHASE SOFT START 15A	MTZ 18-80, SZ 84-110, NTZ 048-215	309.32
MAS698	3 PHASE SOFT START 25A	MTZ 100-160, SZ 115-185, NTZ 271	755.00

CONDENSING UNITS

Semi-hermetic



Ecostar

Semi-hermetic condensing unit

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

CODE	MODEL	CAPACITY (WATTS)			SUPPLY		RECEIVER KG	(RZ) LIST £
		-5°C	-20°C	-35°C	COMP.	FAN		
BTU430	LHV5E/2DES-3.F1Y	1,940-6,450	1,460-4,240	950-2,340	400.3	230.1	19.2	11,375.00
BTU432	LHV5E/4FE-5.F1Y	2,590-8,820	1,940-5,760	1,280-3,220	400.3	230.1	19.2	12,567.00
BTU434	LHV5E/4EE-6.F1Y	-	2,590-7,210	1,570-3,650	400.3	230.1	19.2	12,919.00
BTU440	LHV7E/4FE-5.F1Y	5,960-18,710	3,000-9,990	1,250-4,220	400.3	230.1	19.2	12,232.00
BTU442	LHV7E/4EE-6.F1Y	7,270-20,400	3,670-11,430	-	400.3	230.1	19.2	12,849.00
BTU460	LHV7E/4DE-7.F3Y	10,720-28,550	5,330-14,950	2,160-6,100	400.3	230.1	20.2	13,336.00
BTU462	LHV7E/4CE-9.F3Y	13,110-33,750	6,620-18,410	2,770-7,840	400.3	230.1	20.2	14,335.00

Capacities are quoted at ambient 32°C with R407F, suction gas return temperature of +20°C.

The above units are also suitable for R404A, R407A, and R134a.

LHV7E models will also include a factory fitted LP pressure switch as standard.

All units except BTU430 include a fitted oil pressure switch (Delta PII) as standard.

Models BTU460 and BTU462 also include refrigerant injection system.

ECOSTAR VARIABLE SPEED - HOUSED, R134A ONLY

CODE	MODEL	CAPACITY (WATTS)			SUPPLY		RECEIVER KG	(RZ) LIST £
		+5°C	-5°C	-15°C	COMP.	FAN		
BTU444	LHV7E/4DE-5.F1Y	8,190-25,000	5,340-17,360	3,450-11,140	400.3	230.1	23.2	12,580.00
BTU446	LHV7E/4CE-6.F1Y	9,960-29,200	6,550-20,600	4,080-13,610	400.3	230.1	23.3	12,929.00
BTU460	LHV7E/4DE-7.F3Y	9,990-27,300	6,480-18,240	3,980-11,310	400.3	230.1	23.2	13,336.00
BTU462	LHV7E/4CE-9.F3Y	12,180-32,400	7,960-22,200	4,950-14,000	400.3	230.1	23.2	14,335.00
BTU463	LHV7E/4VE-7.F3Y	13,060-34,050	8,460-23,300	5,130-14,142	400.3	230.1	23.2	15,294.00
BTU465	LHV7E/4TE-9.F3Y	15,620-39,400	10,200-27,400	6,250-17,450	400.3	230.1	23.2	15,390.00
BTU467	LHV7E/4PE-12.F3Y	17,880-43,450	11,580-30,300	6,980-19,300	400.3	230.1	23.2	15,705.00
BTU469	LHV7E/4NE-14.F3Y	-	13,630-34,600	8,320-22,600	400.3	230.1	23.2	16,211.00

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. All 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.

LHV7E models will also include a factory fitted LP pressure switch as standard.

All units except BTU430 include a fitted oil pressure switch (Delta PII) as standard.

Models BTU460 and BTU462 also include refrigerant injection system.

Optional extras for LHV7E units include a fitted oil separator with check valve, coated condenser coil and refrigerant injection. Please enquire for additional prices.

CONDENSING UNITS

Semi-hermetic



Bitzer - LHE Series

Semi-hermetic condensing unit

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.

The compact, robust condensing units with semi-hermetic reciprocating compressors are universal. Thanks to individual compressor and condenser combinations, they operate optimally and with low sound levels even in high ambient temperatures. **Units are supplied with crankcase heater, liquid receiver (relief valve connection from LH104E upwards) and ester oil.**

1

CODE	MODEL	CAPACITY (WATTS)			SUPPLY		RECEIVER KG	(RI) LIST £
		0°C	-15°C	-35°C	COMP.	FAN		
BTU100	LH32E/2KES-05Y	2,860	1,640	535	400.3	230.1	2.9	2,693.52
BTU102	LH32E/2JES-0.7Y	3,640	2,160	785	400.3	230.1	2.9	2,702.16
BTU106	LH33E/2HES-1Y	4,260	2,610	1,000	400.3	230.1	2.9	2,729.16
BTU110	LH33E/2HES-2Y	4,370	2,670	1,020	400.3	230.1	2.9	2,754.00
BTU114	LH33E/2GES-2Y	4,770	2,980	1,210	400.3	230.1	2.9	2,754.00
BTU118	LH44E/2GES-2Y	5,050	3,100	1,230	400.3	230.1	5.4	2,906.28
BTU122	LH44E/2FES-2Y	-	3,650	1,470	400.3	230.1	5.4	2,972.16
BTU126	LH44E/2FES-3Y	5,760	3,640	1,470	400.3	230.1	5.4	3,046.68
BTU128	LH44E/2EES-2Y	-	4,460	1,860	400.3	230.1	5.4	3,609.36
BTU130	LH64E/2EES-3Y	8,710	5,240	2,020	400.3	230.1	7.5	4,460.40
BTU132	LH53E/2DES-2Y	-	5,640	2,340	400.3	230.1	5.4	3,993.84
BTU134	LH64E/2DES-3Y	9,950	6,110	2,430	400.3	230.1	7.5	4,470.12
BTU136	LH64E/2CES-3Y	-	7,270	3,030	400.3	230.1	7.5	4,460.40
BTU138	LH84E/2CES-4Y	12,630	7,720	3,120	400.3	230.1	12.5	5,047.92
BTU140	LH64E/4FES-3Y	-	7,670	3,240	400.3	230.1	7.5	4,661.28
BTU142	LH84E/4FES-5Y	13,490	8,180	3,340	400.3	230.1	12.5	5,417.28
BTU144	LH64E/4EES-4Y	-	9,170	3,990	400.3	230.1	7.5	4,727.16
BTU146	LH84E/4EES-6Y	15,910	9,810	4,030	400.3	230.1	12.5	5,598.72
BTU148	LH84E/4DES-5Y	-	11,420	4,860	400.3	230.1	12.5	5,902.20
BTU150	LH104E/4DES-7Y	20,350	12,320	5,040	400.3	230.1	14.4	7,741.44
BTU152	LH84E/4CES-6Y	-	13,130	5,620	400.3	230.1	12.5	6,231.60
BTU154	LH114E/4CES-9Y	24,500	14,770	5,970	400.3	230.1	14.4	8,535.24
BTU156	LH104E/4TES-9Y	-	17,050	6,950	400.3	230.1	14.4	9,178.92
BTU158	LH114E/4TES-12Y	29,000	17,700	7,060	400.3	230.1	14.4	9,847.44
BTU160	LH114E/4PES-12Y	-	19,430	7,610	400.3	230.1	14.4	10,051.56
BTU162	LH135E/4PES-15Y	36,150	21,200	7,880	400.3	230.1	28.8	12,940.56
BTU164	LH124E/4NES-14Y	-	23,000	9,430	400.3	230.1	28.8	11,384.28
BTU168	LH135E/4NES-20Y	41,100	24,800	9,810	400.3	230.1	28.8	13,759.20
BTU170	LH135E/4JE-15Y	-	28,100	11,580	400.3	230.1	28.8	15,469.92
BTU172	LH135E/4JE-22Y	44,400	27,350	10,900	400.3	230.1	28.8	15,891.12
BTU174	LH135E/4HE-18Y	-	31,800	13,650	400.3	230.1	28.8	15,490.44
BTU176	LH135E/4HE-25Y	49,250	31,300	13,120	400.3	230.1	28.8	15,912.72
BTU178	LH135E/4GE-23Y	-	35,500	15,920	400.3	230.1	28.8	16,486.20
BTU180	LH135E/6JE-25Y	-	37,800	16,380	400.3	230.1	28.8	17,400.96
BTU182	LH135E/6HE-28Y	-	41,700	18,920	400.3	230.1	28.8	17,708.76
BTU184	LH104E/S4T-5.2Y	-	-	6,120	400.3	230.1	14.4	10,854.00
BTU186	LH104E/S4N-8.2Y	-	-	8,610	400.3	230.1	14.4	11,522.52
BTU188	LH124E/S4G-12.2Y	-	-	13,580	400.3	230.1	28.8	15,504.48
BTU190	LH135E/6J-16.2Y	-	-	19,220	400.3	230.1	28.8	19,972.44
BTU192	LH135E/S6H-20.2Y	-	-	22,000	400.3	230.1	28.8	20,295.36
BTU194	LH135E/S6G-25.2Y	-	-	25,000	400.3	230.1	28.8	21,839.76
BTU250	LH265E/4JE-15Y	50,000	30,100	12,010	400.3	230.1	37.5	18,253.08
BTU254	LH265E/4HE-18Y	56,000	34,400	14,200	400.3	230.1	37.5	18,270.36
BTU260	LH265E/4GE-30Y	61,200	38,000	15,730	400.3	230.1	37.5	19,612.80
BTU264	LH265E/4FE-35Y	68,500	44,200	19,190	400.3	230.1	37.5	20,252.16
BTU272	LH265E/6HE-35Y	72,400	45,900	19,310	400.3	230.1	37.5	21,903.48
BTU276	LH265E/6GE-40Y	77,500	50,700	22,100	400.3	230.1	37.5	22,692.96

CONDENSING UNITS

Semi-hermetic

Bitzer

Condensing units accessories

DRESSING - STANDARD MODELS

CODE	MODEL	(Rt) £ LIST
BTU700	Dress LH32E/2KES-0.5Y to LH44E/2FES-3Y	743.04
BTU702	Dress LH44E/2EES-2Y to LH64E/2CES-3Y	743.04
BTU704	Dress LH84E/2CES-4Y	743.04
BTU706	Dress LH64E/2FES-3Y to LH64E/4EES-4Y	743.04
BTU708	Dress LH84E/4DES-5Y to LH84E/4CES-6Y	743.04
BTU710	Dress LH104E/4DES-7Y	1,305.72
BTU712	Dress LH114E/4CES-9Y to LH135E/4PES-15Y	1,305.72
BTU714	Dress LH124E/4NES-14Y to LH135E/6HE-28Y	1,910.52

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	709.56
BTU605	Housing LH33E units	709.56
BTU610	Housing LH44E units	709.56
BTU615	Housing LH53E units	709.56
BTU620	Housing LH64E units	1,285.20
BTU625	Housing LH84E units	1,285.20
BTU630	Housing LH104E units	1,859.76
BTU635	Housing LH114E units	1,859.76
BTU640	Housing LH124E units	2,286.36
BTU645	Housing LH135E units	2,286.36

FITTED OIL SEPARATOR

BTU562	LH32E/2KES-0.5Y to LH84E/2CES-4Y	815.40
BTU569	LH64E/4FES-3Y to LH114E/4TES-12Y	1,073.52
BTU572	LH114E/4PES-12Y to LH135E/6HE-28Y	1,429.92

Includes return oil line, sight glass and check valve.

PRESSURE RELIEF VALVE ADAPTORS

B366001-03	1.1/4" Rotalock x 7/8" ODS 90° (FOR ECOSTAR UNITS)	28.08
B5268-09-0001	7/8" ODS x 1/2" FPT straight (FOR ECOSTAR UNITS)	33.48
B366005-03	1.1/4" Rotalock x 1/2" FPT straight (FOR LH_E UNITS)	27.00

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.

CONDENSING UNITS

Semi-hermetic



Hubbard - SA Series

Semi hermetic condensing unit

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

Hubbard semi hermetic condensing unit comes fitted with pressure relief valve, service valves, vibration eliminator and are prewired. Oil differential switch (on unit with oil pump).

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CODE	MODEL	APPROX HP	CAPACITY (WATTS)			SUPPLY		RECEIVER KG	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	2,147.10
HUB302	SA 0.5-4A	0.5	2,530	1,610	650	400.3	230.1	2.4	01	A	1,895.16
HUB304	SA 0.5-5A	0.5	-	1,870	770	230.1	230.1	2.4	01	A	2,149.14
HUB306	SA 0.5-5A	0.5	-	1,870	770	400.3	230.1	2.4	01	A	1,895.16
HUB308	SA 0.7-5A	0.75	3,380	2,080	820	230.1	230.1	2.4	02	A	2,267.46
HUB310	SA 07-5A	0.75	3,380	2,080	820	400.3	230.1	2.4	02	A	2,036.94
HUB312	SA 0.7-6A	0.75	-	2,010	840	230.1	230.1	2.4	01	A	2,156.28
HUB314	SA 0.7-6A	0.75	-	2,010	840	400.3	230.1	2.4	01	A	1,924.74
HUB316	SA 1-6A	1.0	3,670	2,260	900	230.1	230.1	2.4	02	A	2,277.66
HUB318	SA 1-6A	1.0	3,670	2,260	900	400.3	230.1	2.4	02	A	2,033.88
HUB320	SA 1-7A	1.0	-	2,700	1,100	230.1	230.1	2.4	02	A	2,275.62
HUB322	SA 1-7A	1.0	-	2,700	1,100	400.3	230.1	2.4	02	A	2,045.10
HUB324	SA 1.5-7A	1.5	4,990	3,000	1,170	230.1	230.1	5.7	03	A	2,518.38
HUB326	SA 1.5-7A	1.5	4,990	3,000	1,170	400.3	230.1	5.7	03	A	2,310.30
HUB328	SA 1.5-9B	1.5	-	3,270	1,380	230.1	230.1	2.4	02	A	2,379.66
HUB330	SA 1.5-9B	1.5	-	3,270	1,380	400.3	230.1	2.4	02	A	2,138.94
HUB332	SA 2-10B	2.0	6,540	4,110	1,680	230.1	230.1	5.7	03	A	2,660.16
HUB334	SA 2-10B	2.0	6,540	4,110	1,680	400.3	230.1	5.7	03	A	2,427.60
HUB336	SA 2-10B/2	2.0	7,140	4,340	1,740	230.1	230.1	5.7	04	A	2,949.84
HUB338	SA 2-10B/2	2.0	7,140	4,340	1,740	400.3	230.1	5.7	04	A	2,727.48
HUB340	SA 2-11D	2.0	6,910	4,420	1,830	400.3	230.1	5.7	03	A	2,523.48
HUB342	SA 2-11D/2	2.0	7,840	4,780	1,910	400.3	230.1	5.7	04	A	2,821.32
HUB344	SA 2-13D	2.0	-	5,080	2,190	400.3	230.1	5.7	03	A	2,539.80
HUB346	SA 2-13D/2	2.0	-	5,600	2,310	400.3	230.1	5.7	04	A	2,821.32
HUB348	SA 3-13D	3.0	-	5,050	-	400.3	230.1	5.7	03	B	2,605.08
HUB350	SA 3-13D/2	3.0	9,000	5,560	-	400.3	230.1	5.7	05	b	3,125.28
HUB352	SA 2-15D	2.0	-	-	2,540	400.3	230.1	5.7	03	A	2,533.68
HUB354	SA 3-15D	3.0	-	5,460	2,410	400.3	230.1	5.7	03	B	2,605.08
HUB356	SA 3-18D	3.0	-	6,210	2,950	400.3	230.1	5.7	03	B	2,633.64
HUB358	SA 3-18D/2	3.0	-	7,050	3,130	400.3	230.1	5.7	04	B	2,919.24
HUB360	SA 4-16D/2	4.0	11,010	6,910	-	400.3	230.1	7.0	05	B	3,428.22
HUB362	SA 4-18D/2	4.0	11,720	7,410	-	400.3	230.1	7.0	05	B	3,443.52
HUB364	SA 4-16F/2	4.0	11,110	6,940	-	400.3	230.1	7.0	05	B	3,801.54
HUB366	SA 4-19F/2	4.0	12,590	8,080	3,570	400.3	230.1	7.0	05	B	3,816.84
HUB368	SA 4-24F/2	4.0	-	9,500	4,360	400.3	230.1	7.0	05	B	3,879.06
HUB370	SA 5-19F/2	5.0	14,210	8,650	-	400.3	230.1	12.0	08	C	4,697.10
HUB372	SA 5-25F/2	5.0	-	10,000	4,640	400.3	230.1	7.0	05	B	4,015.74
HUB374	SA 7-25Q/2	7.0	-	11,000	4,770	400.3	230.1	12.0	08	D	5,089.80
HUB376	SA 5-28Q/2	5.0	-	10,720	5,110	400.3	230.1	7.0	05	B	4,289.10
HUB378	SA 7-28Q/2	7.5	18,750	11,650	-	400.3	230.1	12.0	08	D	5,205.06
HUB380	SA 5-33S/2 PWS	5.0	-	-	5,600	400.3	230.1	7.0	06	C	5,047.98
HUB382	SA 7-33Q/2 PWS	7.5	21,610	13,600	-	400.3	230.1	12.0	08	C	5,656.92
HUB384	SA 8-42S/2 PWS	8.0	-	17,000	7,255	400.3	230.1	12.0	08	C	5,684.46
HUB386	SA 12-42S/2 PWS	10.0	29,700	17,700	-	400.3	230.1	19.0	09	F	6,692.22
HUB388	SA 10-52S/2 PWS	10.0	-	19,070	8,820	400.3	230.1	12.0	08	C	5,931.30
HUB390	SA 15-51S/2 PWS	15.0	33,150	20,910	-	400.3	400.3	19.0	09	F	6,845.22
HUB392	SA 15-56S/2 PWS	15.0	-	23,290	10,170	400.3	400.3	19.0	09	F	7,042.08
HUB394	SA 20-56S/2 PWS	20.0	37,900	23,890	-	400.3	400.3	19.0	09	E	7,203.24
HUB396	SA 20-59V/2 PWS	20.0	38,170	24,250	-	400.3	400.3	19.0	09	E	8,438.46
HUB398	SA 15-71V/2 PWS	15.0	-	-	11,180	400.3	400.3	12.0	08	D	7,589.82

CONDENSING UNITS

Semi-hermetic



Hubbard - SA Series

Semi hermetic condensing unit

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

Hubbard semi hermetic condensing unit comes fitted with pressure relief valve, service valves, vibration eliminator and **are** prewired. Oil differential switch (on unit with oil pump).

CODE	MODEL	APPROX HP	CAPACITY (WATTS)			SUPPLY		RECEIVER KG	HOUSING SIZE	DRIER & S/GLASS	(RP) LIST £
			0°C	-15°C	-35°C	COMP.	FAN				
HUB400	SA 25-71V/2 PWS	25.0	42,380	27,500	-	400.3	400.3	19.0	09	E	8,668.98
HUB402	SA 20-84V/2 PWS	20.0	-	30,900	14,770	400.3	400.3	19.0	09	F	8,613.90
HUB404	SA 30-84V/2 PWS	30.0	-	33,238	-	400.3	400.3	19.0	10	E	9,903.18
HUB406	SA 25-106Z/2 PWS	25.0	-	39,263	18,142	400.3	400.3	19.0	10	E	11,179.20
HUB408	SA 30-126Z/2 PWS	30.0	-	43,906	21,026	400.3	400.3	19.0	10	E	11,404.62

For full application range of each unit, please contact our technical department.
Compressor/receiver sets: Prices on Application

PACKAGED HOUSED CONDENSING UNITS

KD condensing units

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Thermofrost Cryo best selling condensing units



KD Hermetic reciprocating

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

KD Hermetic condensing units are ideally suited for commercial applications, cellar cooling, petrol forecourts and freezer rooms.

Product features:

- High efficiency internally grooved copper tube
- Corrosion resistant blue fin coating
- Service valves for easy and quick installation
- Liquid line drier and sight glass
- Fan speed controller
- Adjustable HP/LP switch
- Liquid receiver with fusible plug, liquid shut off valve and charging port
- Factory fitted oil separator included on low temperature models
- Fully pre-wired and electrical isolator fitted.
- Fitted with Cubigel compressors (PAD) and Maneurop NTZ compressors (1PAD, 2PAD).



KD Scroll

KD Scroll condensing units are ideally suited to convenience stores, forecourts and cold room applications, particularly for outdoor installation in noise sensitive locations.

Product advantages:

- Energy efficient - ECA approved (1PAL020M - 2PAL075M)
- Corrosion resistant - Blue fin condenser coil
- Multi refrigerant
- Fan speed controller
- Adjustable HP / LP switch
- Low noise levels
- Wide application range
- Copeland scroll compressor
- External mains isolator
- Liquid line drier and sight glass



KD Semi-hermetic

The KD GOLIATH is the largest capacity reduced noise housed semi-hermetic condensing unit manufactured by KD, designed for large cold stores and freezer rooms.

Product features:

- Bock semi-hermetic compressor
- Multi refrigerant
- Impingement oil separator
- Large volume suction accumulator
- Liquid receiver with refrigerant specific relief valve
- Fully wired electrical control box
- Liquid line drier and sight glass
- Blue fin protected condenser coil
- Fan speed control for head pressure control
- HP/LP pressure switch
- Vibration eliminators
- External pressure gauges
- Acoustically lined compressor compartment

Duties are quoted at an ambient of 32°C with a suction gas superheat of 10K.

PACKAGED HOUSED CONDENSING UNITS

KD condensing units

KD

Hermetic condensing units

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

CODE	MODEL	CAPACITY (WATTS) - EVAPORATING TEMPERATURE °C						SUPPLY	NOISE LEVEL	(WJ) £ LIST EA
		5	0	-5	-10	-15	-20			
KDU020	PAD005M1	1372	1271	1040	859	701	564	230.1	33	691.80
KDU030	PAD008M1	2002	1691	1442	1191	987	805	230.1	33	723.75
KDU035	PAD010M1	2486	2127	1767	1475	1215	983	230.1	33	754.60
KDU040	PAD012M1	3736	3159	2689	2218	1827	1473	230.1	33	879.08

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

KDU045	PAC012M1	2600	2172	1780	1431	1122	848	230.1	33	886.79
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R404A - LOW TEMPERATURE HERMETIC UNITS, -20°C TO -45°C

CODE	MODEL	CAPACITY (WATTS) - EVAPORATING TEMPERATURE °C						SUPPLY	NOISE LEVEL	(WJ) £ LIST EA
		-20	-25	-30	-35	-40	-45			
KDU410	PAD016L1	1888	1528	1207	931	688	497	230.1	33	1,165.49
KDU430	1PAD018L1	2406	1876	1401	1007	675	403	230.1	38	1,361.58
KDU432	1PAD018L3	2406	1876	1401	1007	675	403	400.3	38	1,343.95
KDU435	1PAD023L1	3494	2811	2197	1640	1182	793	230.1	40	1,391.32
KDU437	1PAD023L3	3494	2811	2197	1640	1182	793	400.3	40	1,372.59
KDU442	1PAD035L3	4433	3472	2644	1923	1370	963	400.3	44	1,541.14
KDU452	1PAD050L3	6291	4972	3893	2911	2120	1502	400.3	45	1,755.95
KDU457	2PAD075L3	9712	7694	6032	4558	3227	2166	400.3	46	3,009.57
KDU462	2PAD100L3	13411	10815	8479	6431	4643	3202	400.3	46	3,505.29

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

KD

Hermetic scroll condensing units

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

CODE	MODEL	CAPACITY (WATTS) - EVAPORATING TEMPERATURE °C							SUPPLY	NOISE LEVEL	(WJ) £ LIST EA
		10	5	0	-5	-10	-15	-20			
KDS095	1PAL015M1	4893	4200	3550	3000	2495	2015	1650	230.1	32	1,072.96
KDS100	1PAL020M1	6800	5800	4950	4150	3450	2815	2260	230.1	32	1,180.92
KDS102	1PAL020M3	6800	5800	4950	4150	3450	2815	2260	400.3	32	1,154.48
KDS105	1PAL025M1	7900	6800	5850	4950	4150	3450	2820	230.1	32	1,194.13
KDS107	1PAL025M3	7900	6800	5850	4950	4150	3450	2820	400.3	32	1,166.59
KDS110	1PAL030M1	9600	8250	7100	6000	5000	4150	3400	230.1	39	1,287.77
KDS112	1PAL030M3	9600	8250	7100	6000	5000	4150	3400	400.3	39	1,259.13
KDS121	1PAL036M1	11300	9750	8350	7000	5900	4900	4000	230.1	39	1,438.69
KDS123	1PAL036M3	11300	9750	8350	7000	5900	4900	4000	400.3	39	1,405.64
KDS135	1PAL040M3	12640	10850	9350	7960	6660	5550	4560	400.3	39	1,520.21
KDS145	2PAL050M3	15900	13650	11800	10050	8400	7000	5750	400.3	40	1,643.59
KDS150	2PAL075M3	20900	17950	15300	13100	11100	9210	7580	400.3	40	2,061.09
KDS153	2PAL090M3	27100	23700	20300	17400	14750	12250	10100	400.3	40	2,833.68
KDS155	2PAL100M3	31400	27400	23800	20100	17000	14050	11500	400.3	40	2,979.83
KDS185	PAUP050M3	15900	13650	11800	10050	8400	7000	5750	400.3	40	1,643.59

PACKAGED HOUSED CONDENSING UNITS

KD condensing units

1

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

CODE	MODEL	CAPACITY (WATTS) - EVAPORATING TEMPERATURE °C							SUPPLY	NOISE LEVEL	(WH) £ LIST EA
		7	5	0	-5	-10	-15	-20			
KDS100	1PAL020M1	-	5800	4580	4050	3350	2740	-	230.1	32	1,180.92
KDS102	1PAL020M3	-	5800	4580	4050	3350	2740	-	400.3	32	1,154.48
KDS105	1PAL025M1	-	6650	5650	4700	3900	3150	-	230.1	32	1,194.13
KDS107	1PAL025M3	-	6650	5650	4700	3900	3150	-	400.3	32	1,166.59
KDS110	1PAL030M1	-	8450	7150	5950	4900	3950	-	230.1	39	1,287.77
KDS112	1PAL030M3	-	8450	7150	5950	4900	3950	-	400.3	39	1,259.13
KDS121	1PAL036M1	-	9600	8050	6700	5550	4550	-	230.1	39	1,438.69
KDS123	1PAL036M3	-	9600	8050	6700	5550	4550	-	400.3	39	1,405.64
KDS135	1PAL040M3	-	10700	9000	7550	6250	5100	-	400.3	39	1,520.21
KDS145	2PAL050M3	-	14000	11950	10050	8350	6900	-	400.3	40	1,643.59
KDS150	2PAL075M3	-	18400	15600	13150	10900	8800	-	400.3	40	2,061.09
KDS153	2PAL090M3	-	26100	22400	18800	15550	12350	-	400.3	40	2,833.68
KDS155	2PAL100M3	-	28500	24400	20400	16850	13500	-	400.3	40	2,979.83
KDS185	PAUP050M3	-	1400	11950	10050	8350	6900	-	400.3	40	1,643.59

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

CODE	MODEL	CAPACITY (WATTS) - EVAPORATING TEMPERATURE °C							SUPPLY	NOISE LEVEL	(WH) £ LIST EA
		-10	-15	-20	-25	-30	-35	-40			
KDS250	1PAL030L3	4850	4050	3350	2740	2220	1770	1380	400.3	39	1,800.01
KDS255	1PAL035L3	5800	4850	4050	3350	2735	2200	1730	400.3	39	1,817.64
KDS260	1PAL040L3	6850	5750	4800	3900	3150	2500	1940	400.3	39	1,865.01
KDS265	2PAL050L3	8450	7100	5900	4850	3900	3100	2375	400.3	40	2,015.93
KDS270	2PAL060L3	9750	8150	6800	5650	4600	3700	2900	400.3	40	2,128.29
KDS275	2PAL075L3	11850	10000	8400	6950	5650	4550	3500	400.3	40	3,096.60
KDS285	PAUP050L3	8450	7100	5900	4850	3900	3100	2375	400.3	40	2,015.93
KDS290	PAUP060L3	9750	8150	6800	5650	4600	3700	2900	400.3	40	2,127.19

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

CODE	MODEL	CAPACITY (WATTS) - EVAPORATING TEMPERATURE °C					SUPPLY	NOISE LEVEL	(WH) £ LIST EA
		-20	-25	-30	-35	-40			
KDS250	1PAL030L3	3150	2580	2040	1585	1280	400.3	39	1,800.01
KDS255	1PAL035L3	3950	3200	2540	1980	1595	400.3	39	1,817.64
KDS260	1PAL040L3	4620	3720	2930	2290	1850	400.3	39	1,865.01
KDS265	2PAL050L3	5550	4330	3510	2790	2300	400.3	40	2,015.93
KDS270	2PAL060L3	6600	5350	4250	3400	2765	400.3	40	2,128.29
KDS275	2PAL075L3	8270	6720	5360	4250	3480	400.3	40	3,096.60
KDS285	PAUP050L3	5550	4330	3510	2790	2300	400.3	40	2,015.93
KDS290	PAUP060L3	6600	5350	4250	3400	2765	400.3	40	2,127.19

KD

Semi-hermetic condensing units

R404A - MEDIUM TEMPERATURE, -30°C TO +5°C

CODE	MODEL	CAPACITY (WATTS) - EVAPORATING TEMPERATURE °C								SUPPLY	(WS) £ LIST EA
		5	0	-5	-10	-15	-20	-25	-30		
KDH005	PA150SMG3	44,400	37,800	31,600	26,300	21,600	17,500	13,900	10,800	400.3	4,802.98
KHD010	PA200SMG3	49,800	42,600	36,000	29,700	24,400	19,800	15,600	12,100	400.3	5,636.89
KDH015	PA250SMG3	60,600	51,600	4,300	35,800	29,400	23,600	18,800	14,600	400.3	6,562.23
KDH020	PA300SMG3	69,300	59,400	49,600	41,500	34,100	27,500	21,800	16,700	400.3	7,322.34

R407F - MEDIUM TEMPERATURE, -30°C TO +5°C

KDH005	PA150SMG3	46,400	39,300	32,800	26,800	21,700	17,300	13,400	10,100	400.3	4,802.98
KHD010	PA200SMG3	52,800	44,900	37,600	30,800	25,600	19,900	15,400	11,600	400.3	5,636.89
KDH015	PA250SMG3	63,300	53,500	44,400	36,500	29,500	23,440	18,000	13,500	400.3	6,562.23
KDH020	PA300SMG3	72,100	61,100	51,100	41,700	33,700	26,500	-	-	400.3	7,322.34

Units include Bock semi-hermetic compressor, oil separator, suction accumulator, liquid receiver with refrigerant specific relief valve, electrical box, liquid line drier/sight glass, fan speed controller, dual HP/LP switch, oil differential pressure switch, suction and discharge vibration eliminators, external LP and HP pressure gauges, crankcase heater. Compressor compartment is acoustically lined for compressor noise reduction.

Duties are quoted at an ambient of 32°C with a suction gas superheat of 10K.

PACKAGED HOUSED CONDENSING UNITS

Hermetic reciprocating



Fusion

Hermetic reciprocating condensing unit

J&E Hall condensing units have all required components factory fitted as standard. Fusion units are supplied with a reciprocating compressor.

Units with pre-fix JEHR use Tecumseh compressors except JEHR-0150, which uses Maneurop, 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.*

Microchannel condenser S1/S2 models.

Duty at 32°C ambient, R404A.

For wall brackets see page 72.

Noise levels in dB(A) at 10m.

*MLU040, 057, 065 and 070 not fitted with these items.

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

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

CODE	MODEL	CAPACITY (WATTS) - EVAPORATING TEMPERATURE °C						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	598.05
MLU057	JEHR-0067-B1-M-1	2,712	2,244	1,847	1,497	1,225	948	230.1	30	646.80
MLU065	JEHR-0100-B1-M-1	3,100	2,593	2,148	1,760	1,495	1,134	230.1	30	682.50
MLU070	JEHR-0113-B1-M-1	3,746	3,149	2,616	2,143	1,761	1,362	230.1	30	761.25
MLU080	JEHR-0140-B2-M-1	4,934	4,096	3,376	2,756	2,220	1,762	230.1	34	914.55
MLU082	JEHR-0140-B2-M-3	4,934	4,096	3,376	2,759	2,220	1,762	400.3	34	914.55
MLU090	JEHR-0150-B2-M-1	5,536	4,556	4,048	2,956	2,312	1,763	230.1	37	1,023.75
MLU092	JEHR-0150-B2-M-3	5,536	4,556	4,048	2,956	2,312	1,763	400.3	37	1,023.75
MLU115	JEH2-0400-M-3	-	11,819	9,870	8,106	6,527	5,133	400.3	37	1,437.45
MLU135	JEH2-0825-M-3	-	18,614	15,904	13,370	11,010	8,826	400.3	42	2,516.85
MLU140	JEH2-1000-M-3	-	21,115	18,476	15,947	13,528	11,219	400.3	42	2,815.05

Models JEH2-0400-M-3 to JEH2-1000-M-3 are limited availability, once stock is sold these will be replaced by scroll models

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	598.05
MLU057	JEHR-0067-B1-M-1	3,034	2,432	1,934	1,510	1,187	-	230.1	30	646.80
MLU065	JEHR-0100-B1-M-1	3,469	2,810	2,249	1,775	1,449	-	230.1	30	682.50
MLU070	JEHR-0113-B1-M-1	4,191	3,412	2,739	2,162	1,706	-	230.1	30	761.25
MLU080	JEHR-0140-B2-M-1	5,521	4,439	3,534	2,780	2,151	-	230.1	34	914.55
MLU082	JEHR-0140-B2-M-3	5,521	4,439	3,534	2,780	2,151	-	400.3	34	914.55
MLU090	JEHR-0150-B2-M-1	-	4,240	3,500	2,800	2,240	1,600	230.1	37	1,023.75
MLU092	JEHR-0150-B2-M-3	-	4,240	3,500	2,800	2,240	1,600	400.3	37	1,023.75
MLU115	JEH2-0400-M-3	-	10,280	10,060	8,240	6,590	5,100	400.3	37	1,437.45
MLU135	JEH2-0825-M-3	-	19,710	16,850	14,090	11,450	-	400.3	42	2,516.85
MLU140	JEH2-1000-M-3	-	-	20,450	17,170	14,130	-	400.3	42	2,815.05

Models JEH2-0400-M-3 to JEH2-1000-M-3 are limited availability, once stock is sold these will be replaced by scroll models

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

CODE	MODEL	CAPACITY (WATTS) - EVAPORATING TEMPERATURE °C						SUPPLY	NOISE LEVEL	(WG) £ LIST EA
		-20	-25	-30	-35	-40				
MLU303	JEHR-0175-B2-L-1	2,011	1,631	1,277	947	643		230.1	35	1,184.40
MLU304	JEHR-0175-B2-L-3	2,011	1,631	1,277	947	643		400.3	35	1,184.40
MLU307	JEHR-0225-B2-L-1	3,149	2,572	2,044	1,567	1,139		230.1	38	1,262.10
MLU308	JEHR-0225-B2-L-3	3,149	2,572	2,044	1,567	1,139		400.3	38	1,345.05
MLU330	JEH2-0725-L-3	8,548	6,983	5,549	4,244	3,070		400.3	40	2,802.45
MLU335	JEH2-0825-L-3	11,372	9,366	7,514	5,818	4,276		400.3	41	2,887.50

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

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.

PACKAGED HOUSED CONDENSING UNITS

Hermetic reciprocating/scroll



Optyma Slim NEW

Hermetic reciprocating/scroll condensing unit

Optyma™ Slim Pack is the new cost-effective packaged condensing unit with a new condenser technology - Micro Channel Heat Exchanger. Danfoss has developed Optyma™ Slim Pack to meet all customers' needs in MBP and LBP applications. Reliability, compactness and low cost make the Danfoss Optyma™ Slim Pack condensing unit an optimal cooling solution for refrigeration. This condensing unit is dedicated for cold, fermentation and storage rooms in all kinds of convenience stores or restaurants. Units include dual HP/LP switch, liquid line drier and sight glass, liquid receiver and service valves.

1

R404A - LOW TEMPERATURE -40°C TO -10°C, (ALSO SUITABLE FOR R452A)

CODE	MODEL	CAPACITY (WATTS) - EVAPORATING TEMPERATURE °C							SUPPLY	NOISE LEVEL	(NA) £ LIST EA
		-40	-35	-30	-25	-20	-15	-10			
MSP005	LSQM014MPW05G	-	440	580	730	890	1,070	1,260	230.1	29	1,267.20
MSP010	LSQM018MPW05G	-	480	640	820	1,010	1,230	1,460	230.1	29	1,330.40
MSP015	LSQM026AJW05G	450	640	870	1,140	1,450	1,810	2,220	230.1	36	1,505.40
MSP020	LSQM034AJW05G	600	830	1,100	1,430	1,810	2,250	2,750	230.1	37	1,628.30
MSP025	LSQM048NTW05G	650	980	1,380	1,850	2,400	3,020	3,710	230.1	40	1,701.80
MSP030	LSQM048NTW05E	670	1,000	1,390	1,850	2,370	2,960	3,610	400.3	40	1,701.80
MSP035	LSQM074FHW05G	980	1,440	1,970	2,580	3,270	4,030	4,880	230.1	44	1,775.90
MSP035	LSQM074FHW05E	990	1,430	1,970	2,590	3,290	4,070	4,930	400.3	44	1,775.90
MSP040	LSQM068NTW05G	1,190	1,610	2,110	2,690	3,360	4,100	4,910	230.1	40	1,806.80
MSP045	LSQM068NTW05E	1,170	1,630	2,160	2,770	3,450	4,200	5,020	400.3	40	1,806.80
MSP050	LSQM067LLW05E	2,020	2,600	3,280	4,060	4,970	6,000	7,160	400.3	40	2,729.80
MSP055	LSQM084LLW05E	2,440	3,110	3,910	4,850	5,940	7,180	8,580	400.3	42	2,830.60
MSP060	LSQM098LLW05E	2,840	3,610	4,520	5,590	6,820	8,220	9,790	400.3	43	2,996.30

R404A - MEDIUM TEMPERATURE -20°C TO +10°C, (ALSO SUITABLE FOR R134A, R407A/F, R448A, R449A)

CODE	MODEL	CAPACITY (WATTS) - EVAPORATING TEMPERATURE °C							SUPPLY	NOISE LEVEL	(NA) £ LIST EA
		-20	-15	-10	-5	0	5	10			
MSP100	MSXM034MLW05G	2,370	2,890	3,480	4,140	4,880	5,700	6,610	230.1	38	1,740.80
MSP105	MSXM034MLW05E	2,250	2,790	3,400	4,070	4,820	5,640	6,530	400.3	38	1,740.80
MSP110	MSXM046MLW05G	3,150	3,820	4,580	5,420	6,350	7,370	8,480	230.1	38	1,789.90
MSP115	MSXM046MLW05E	3,110	3,770	4,510	5,340	6,260	7,270	8,390	400.3	38	1,789.90
MSP120	MSXM057MLW05G	3,620	4,380	5,240	6,190	7,230	8,370	9,610	230.1	38	1,840.40
MSP125	MSXM057MLW05E	3,630	4,390	5,250	6,200	7,250	8,400	9,640	400.3	38	1,822.80
MSP130	MSXM068MLW05G	4,830	5,930	7,180	8,590	10,180	11,950	13,900	230.1	39	2,406.50
MSP135	MSXM068MLW05E	4,830	5,930	7,180	8,590	10,180	11,950	13,910	400.3	39	2,225.90
MSP140	MSXM080MLW05G	5,500	6,810	8,270	9,890	11,650	13,540	15,540	230.1	39	2,470.70
MSP145	MSXM080MLW05E	5,710	6,950	8,350	9,930	11,680	13,610	15,720	400.3	39	2,265.80
MSP150	MSXM099MLW05E	6,640	8,060	9,650	11,420	13,380	15,520	17,850	400.3	39	2,645.30
MSP155	MSXM108MLW05E	7,150	8,650	10,320	12,170	14,210	16,460	18,930	400.3	39	2,913.30

Fully housed condensing unit fitted with liquid line drier & sight glass, liquid receiver, microchannel condenser, service valves, contactor and overload. Models with MP, AJ, FH and NT in their model numbers are fitted with reciprocating compressors, models with LL or ML in their models numbers are fitted with scroll compressors. All have crankcase heaters.

PACKAGED HOUSED CONDENSING UNITS

Hermetic scroll



Fusion

Hermetic scroll condensing unit

The latest generation small and medium sized commercial units offer multi refrigerant options and improved access. The units offer advanced features including microchannel condenser coils for reduced refrigerant charge and increased efficiencies.

Units with pre-fix JEHS use Copeland scroll compressors.

Copeland scroll 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.

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

CODE	MODEL	CAPACITY (WATTS) - EVAPORATING TEMPERATURE °C						SUPPLY	NOISE LEVEL	(WG) £ LIST EA
		10	5	0	-5	-10	-15			
MLU403	JEHS-0200-B2-M-1	6,970	5,920	5,000	4,190	3,490	2,880	230.1	33	1,161.30
MLU407	JEHS-0200-B2-M-3	6,970	5,920	5,000	4,190	3,490	2,880	400.3	33	1,161.30
MLU409	JEHS-0250-B2-M-1	8,260	7,020	5,950	5,020	4,210	3,530	230.1	36	1,202.25
MLU411	JEHS-0250-B2-M-3	8,260	7,020	5,950	5,020	4,210	3,530	400.3	36	1,202.25
MLU417	JEHS-0300-B2-M-1	9,470	8,070	6,850	5,800	4,890	4,110	230.1	36	1,252.65
MLU418	JEHS-0300-B2-M-3	9,470	8,070	6,850	5,800	4,890	4,110	400.3	36	1,252.65
MLU422	JEHS-0350-B2-M-1	10,300	8,840	7,570	6,440	5,460	4,610	230.1	40	1,349.25
MLU424	JEHS-0350-B2-M-3	10,300	8,840	7,750	6,440	5,460	4,610	400.3	40	1,349.25
MLU427	JEHS-0350-B3-M-1	-	10,040	8,500	7,100	5,900	4,850	230.1	35	1,556.10
MLU429	JEHS-0350-B3-M-3	-	10,040	8,500	7,100	5,900	4,850	400.3	35	1,501.50
MLU430	JEHS-0400-B3-M-1	-	11,298	9,590	8,040	6,690	5,500	230.1	34	1,438.50
MLU432	JEHS-0400-B3-M-3	-	11,298	9,590	8,040	6,690	5,500	400.3	34	1,438.50
MLU434	JEHS-0500-B3-M-3	-	13,420	11,450	9,650	8,050	6,650	400.3	35	1,478.40
MLU437	JEHS-0600-B3-M-3	-	15,150	12,950	10,900	9,150	7,550	400.3	40	1,715.70
MLU439	JEHS-0680-B3-M-3	-	16,090	13,800	11,650	9,850	8,150	400.3	40	1,871.85
MLU442	JEHS-0800-B4-M-3	-	19,686	16,950	14,350	12,000	9,770	400.3	44	2,515.80
MLU452	JEHS-1000-B4-M-3	-	-	19,100	16,550	14,200	11,900	400.3	44	2,815.05

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	1,161.30
MLU407	JEHS-0200-B2-M-3	-	5,410	4,690	3,980	3,300	2,670	400.3	33	1,161.30
MLU409	JEHS-0250-B2-M-1	-	6,400	5,570	4,750	3,970	3,260	230.1	36	1,202.25
MLU411	JEHS-0250-B2-M-3	-	6,400	5,570	4,750	3,970	3,260	400.3	36	1,202.25
MLU417	JEHS-0300-B2-M-1	-	7,350	6,510	5,610	4,710	3,860	230.1	36	1,252.65
MLU418	JEHS-0300-B2-M-3	-	7,350	6,510	5,610	4,710	3,860	400.3	36	1,252.65
MLU422	JEHS-0350-B2-M-1	-	8,040	7,020	5,960	4,900	-	230.1	40	1,349.25
MLU424	JEHS-0350-B2-M-3	-	8,040	7,020	5,960	4,900	-	400.3	40	1,349.25
MLU427	JEHS-0350-B3-M-1	-	10,250	8,570	7,090	5,780	-	230.1	35	1,556.10
MLU429	JEHS-0350-B3-M-3	-	10,250	8,570	7,090	5,780	-	400.3	35	1,501.50
MLU430	JEHS-0400-B3-M-1	-	12,600	10,600	8,770	7,180	-	230.1	34	1,438.50
MLU432	JEHS-0400-B3-M-3	-	12,600	10,600	8,770	7,180	-	400.3	34	1,438.50
MLU434	JEHS-0500-B3-M-3	-	15,200	12,750	10,600	8,700	-	400.3	35	1,478.40
MLU437	JEHS-0600-B3-M-3	-	17,500	14,800	12,300	10,050	-	400.3	40	1,715.70
MLU439	JEHS-0680-B3-M-3	-	18,720	16,030	13,470	11,190	-	400.3	40	1,871.85
MLU442	JEHS-0800-B4-M-3	-	20,130	17,330	14,450	11,790	-	400.3	44	2,515.80
MLU452	JEHS-1000-B4-M-3	-	24,930	21,510	18,180	15,080	-	400.3	44	2,815.05

PACKAGED HOUSED CONDENSING UNITS

Hermetic scroll

J&E Hall - Fusion

Hermetic scroll condensing unit

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

CODE	MODEL	CAPACITY (WATTS) - EVAPORATING TEMPERATURE °C					SUPPLY	NOISE LEVEL	(WG) £ LIST EA
		-20	-25	-30	-35	-40			
MLU463	JEHS-0200-B2-L-3	2,310	1,910	1,560	1,260	1,000	400.3	27	1,777.65
MLU466	JEHS-0300-B2-L-3	3,000	2,480	2,040	1,645	1,315	400.3	28	1,917.30
MLU473	JEHS-0400-B3-L-3	4,700	3,850	3,100	2,485	1,940	400.3	35	2,211.30
MLU478	JEHS-0500-B3-L-3	5,550	4,600	3,750	3,000	2,330	400.3	36	2,281.65
MLU483	JEHS-0600-B3-L-3	6,450	5,350	4,400	3,600	2,850	400.3	41	2,508.45
MLU487	JEHS-0750-B4-L-3	7,750	6,490	5,350	4,320	3,390	400.3	41	2,757.30

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

MLU463	JEHS-0200-B2-L-3	2,320	1,880	1,510	1,190	980	400.3	27	1,777.65
MLU466	JEHS-0300-B2-L-3	3,090	2,510	2,020	1,620	1,310	400.3	28	1,917.30
MLU473	JEHS-0400-B3-L-3	4,480	3,620	2,900	2,280	1,780	400.3	35	2,211.30
MLU478	JEHS-0500-B3-L-3	5,380	4,360	3,510	2,770	2,170	400.3	36	2,281.65
MLU483	JEHS-0600-B3-L-3	6,420	5,230	4,210	3,330	2,600	400.3	41	2,508.45
MLU487	JEHS-0750-B4-L-3	7,750	6,490	5,350	4,320	3,390	400.3	41	2,757.30

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.



J&E Hall - Fusion digital single scroll

Hermetic scroll condensing unit

With a capacity up to 16kW the single scroll is an ideal solution for convenience stores, supermarkets and petrol forecourts. The digital single scroll compressor capacity control matches varying display case loads and provides an energy efficient solution for commercial refrigeration applications. The units are also suitable for multi cabinet systems.

R404A - MEDIUM TEMPERATURE DIGITAL SCROLL -20°C TO +5°C, ALSO SUITABLE FOR R407F/A

CODE	MODEL	CAPACITY (WATTS) - EVAPORATING TEMPERATURE °C						SUPPLY	NOISE LEVEL	(WG) £ LIST EA
		5	0	-5	-10	-15	-20			
MLU550	JEHSD-0600-M-3	15,822	13,545	11,550	9,660	8,033	6,615	400.3.50	41	2,936.85

Unit includes Copeland digital scroll compressor, single condenser fan, fan speed controller, electrical control panel, mains isolator, Carel electronic controller with LCD display, oil separator, external suction and liquid valves, liquid line drier and sight glass. Capacity based on 10K suction superheat and 0K subcooling. Noise level in dB(A) is measured at 10m distance in free field conditions.



J&E Hall - Fusion digital twin scroll

Hermetic scroll condensing unit

With a capacity up to 31kW the digital twin scroll is an ideal solution for larger convenience store applications and is a packaged alternative to multi compressor racks.

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

CODE	MODEL	CAPACITY (WATTS) - EVAPORATING TEMPERATURE °C						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	6,007.05

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 relief valve fitted to liquid receiver. Capacity data at 10K suction superheat and 0K subcooling, noise level in dB(A) is measured at 10m distance in free field conditions.

PACKAGED HOUSED CONDENSING UNITS

Inverter scroll



Inverter scroll

i-cool is a new generation of multi refrigerant inverter driven low noise condensing unit.

These units are particularly suitable for small and medium sites such as convenience stores, petrol forecourts, cold rooms and many other applications, targeting customers who care about flexibility, reliability and energy savings.

MEDIUM TEMPERATURE UNITS, R404A

CODE	MODEL	DUTY (KW) @ 30-90HZ, EVAP TEMP°C								SUPPLY	NO. OF COMPS	NO. OF COND FANS	(AR) £ NET EA
		-20	-15	-10	-5	0	5	10	15				
ISU005	SAPTXiN-4.5 MHP	-	780-3,058	1,150-4,034	1,590-5,032	2,090-6,033	2,590-7,041	3,050-8,090	-	230/1	1	1	3,250.14
ISU010	SAPTXiSs-10 MHP	1,230-6,420	1,530-7,950	1,910-9,680	2,390-11,680	2,980-13,970	3,710-16,550	4,750-19,430	-	400/3	1	1	3,474.94
ISU020	SAPTXiSs-17D MHP	1,350-11,920	1,700-14,540	2,140-17,510	2,720-20,930	3,430-24,850	4,320-29,320	5,390-34,350	-	400/3	2	2	4,755.71
ISU030	SAPTXiSs-21D MHP	1,350-14,320	1,700-17,200	2,140-20,480	2,720-24,190	3,430-28,400	4,320-33,160	5,390-38,480	-	400/3	2	2	4,811.60
ISU040	SAPTXiSs-26D MHP	-	4,050-21,730	5,000-25,420	6,170-29,610	7,620-34,410	9,380-39,860	11,500-46,030	-	400/3	2	2	7,846.10
ISU050	SAPTXiSs-29D MHP	-	4,050-23,990	5,000-28,040	6,170-32,610	7,620-37,810	9,380-43,710	11,500-50,380	-	400/3	2	2	8,121.81

SAPTXiN-4.5 MHP unit is fitted with a reciprocating compressor, min speed 20Hz, max speed 80Hz

MEDIUM TEMPERATURE UNITS, R134A

ISU010	SAPTXiSs-10 MHP	-	-	-	2,158-7,900	2,724-9,659	3,437-11,777	4,322-14,291	5,402-17,229	400/3	1	1	3,474.94
ISU020	SAPTXiSs-17D MHP	-	-	1,742-11,470	2,200-13,877	2,783-16,772	3,519-20,236	4,437-24,332	5,562-29,110	400/3	2	2	4,755.71
ISU030	SAPTXiSs-21D MHP	-	-	1,742-13,811	2,200-16,618	2,738-19,974	3,519-23,962	4,437-28,646	5,562-34,074	400/3	2	2	4,811.60
ISU030	SAPTXiSs-21D MHP	1,350-14,320	1,700-17,200	2,140-20,480	2,720-24,190	3,430-28,400	4,320-33,160	5,390-38,480	-	400/3	2	2	4,811.60
ISU040	SAPTXiSs-26D MHP	-	4,050-21,730	5,000-25,420	6,170-29,610	7,620-34,410	9,380-39,860	11,500-46,030	-	400/3	2	2	7,846.10
ISU050	SAPTXiSs-29D MHP	-	4,050-23,990	5,000-28,040	6,170-32,610	7,620-37,810	9,380-43,710	11,500-50,380	-	400/3	2	2	8,121.81

LOW TEMPERATURE UNITS, R404A

CODE	MODEL	DUTY (KW) @ 30-75HZ, EVAP TEMP°C							SUPPLY	NO. OF COMPS	NO. OF COND FANS	(AR) £ NET EA
		-40	-35	-30	-25	-20	-15	-10				
ISU100	SAPTXiSs-10 LP	1,060-6,940	1,580-8,490	2,100-10,360	2,690-12,630	3,400-15,340	4,260-18,530	5,310-22,230	400/3	1	1	5,058.47
ISU110	SAPTXiSs-17D LP	1,090-11,090	1,620-13,700	2,180-16,790	2,810-20,410	3,570-24,730	4,520-29,810	5,690-35,720	400/3	2	2	7,572.58

Capacity data at 32°C ambient, max ambient 43°C with some limitations.

i-Cool units include noise reducing housing, inverter drive, HP/LP switch, LP switch for manual safety mode (driver failure), suction line accumulator, liquid receiver, liquid line drier/sight glass, fan speed controller, oil separator, fully wired electrical box, crankcase heater and electronic controller.

Units have two large access doors for easy access to all components.



Irack ^{NEW} Inverter rack system

CODE	REF.	DUTY (KW) @ 30-80HZ, EVAP TEMP°C						RECEIVER L	RACK LIST PRICE	HOUSING PRICE	COND KOBOL	BUILT ON TOP PRICE
		-10 °C / +45 °C		-5 °C / +45 °C		0 °C / +45 °C						
		MINIMUM	MAXIMUM	MINIMUM	MAXIMUM	MINIMUM	MAXIMUM					
IRK015	2xC-SBN453H8B + 1xC-SBS180H00B	2.77	33.40	3.58	41.42	4.38	49.43	50	10,353.00	1,676.00	CHN210L	3,049.00
IRK020	3xC-SBN373H8G + 1xC-SBS180H00B	2.77	38.10	3.58	46.98	4.38	55.93	70	12,084.00	2,096.00	CHN212L	3,049.00
IRK045	2xC-SCN603H8H + 1xC-SBVN373L0B	3.75	42.30	4.74	55.49	5.73	65.77	50	12,147.00	1,676.00	CHN212L	3,049.00
IRK050	3xC-SBS235H38B + 1xC-SBVN373L0B	3.75	50.70	4.74	62.81	5.73	74.64	70	12,288.00	2,096.00	CHN306L	4,391.00
IRK055	3xC-SCN603H8H + 1xC-SBVN373L0B	3.75	56.10	4.74	74.36	5.73	88.26	90	14,983.00	2,096.00	CHN311L	4,391.00
IRK060	4xC-SBS235H38B + 1xC-SBVN373L0B	3.75	62.70	4.74	77.83	5.73	92.59	90	14,508.00	2,515.00	CHN311L	4,391.00
IRK065	4xC-SCN603H8H + 1xC-SBVN373L0B	3.75	69.90	4.74	93.23	5.73	110.75	120	17,362.00	2,515.00	CHN311L	4,391.00

CELLAR COOLING EQUIPMENT



Cellar Star Cooling system **NEW**

The new KD Cellar Star is a high performance cooling only system designed to control cellar temperature to maintain beer and wine in optimum condition using refrigerant R410A. Fitted with rotary compressor, LP switch, R410A expansion valve, liquid receiver and refrigerant pre-charge.

KD 'CELLAR STAR' - CELLAR COOLING SYSTEMS R410A

OUTDOOR UNIT	CODE	(WK) LIST PRICE	INDOOR UNIT	CODE	(WK) LIST PRICE	DUTY (KW)	MAX PIPE RUN (M)	POWER SUPPLY	(WK) SYSTEM LIST PRICE
PAP015M1	KDCU010	611.00	SC040	KDCC010	642.00	3.83	25m	230/1/50	1,253.00
PAP020M1	KDCU015	841.00	SC045	KDCC015	765.00	4.94	25m	230/1/50	1,606.00
PAP025M1	KDCU020	920.00	SC050	KDCC020	909.00	5.74	25m	230/1/50	1,829.00
PAP028M1	KDCU025	1002.00	SC070	KDCC025	1049.00	7.59	25m	230/1/50	2,051.00

Systems are suitable for applications from +4°C up to +16°C
Optional wall mounting brackets for SC cooler = KDCC100 @ £20.00 list price
Rotary compressor, digital electronic controller, LP switch, thermostatic expansion valve, R410A, microchannel condenser, weatherproof housing, refrigerant charge.
Duties quoted above are at +12.7°C cellar temperature, ambient 32°C, R410A refrigerant.



Cellartemp Cooling system

R404A SYSTEMS

OUTDOOR CODE	OUTDOOR UNIT	INDOOR CODE	INDOOR UNIT	DUTY (WATTS)	(BM) £ LIST
KDU030	PAD008M1	SPE115	CTP16-60	1,900	POA
KDU035	PAD010M1	SPE125	CTP16-70	2,250	POA
KDU040	PAD012M1	SPE135	CTP16-90	3,250	POA
KDS095	1PAL015M1	SPE135	CTP16-90	3,500	POA
KDS095	1PAL015M1	SPE145	CTP26-125	3,700	POA
KDS100	1PAL020M1	SPE155	CTP26-170	5,100	POA
KDS105	1PAL025M1	SPE165	CTP36-200	6,050	POA
KDS110	1PAL030M1	SPE165	CTP36-200	7,200	POA
KDS110	1PAL030M1	SPE175	CTP36-250	8,000	POA
KDS121	1PAL036M1	SPE175	CTP36-250	8,600	POA
KDS135	1PAL040M3	SPE175	CTP36-250	10,000	POA

R134A SYSTEMS

KDU045	PAC012M1	SPE115A	CTP16-60	2,190	POA
KDS095	1PAL015M1	SPE135A	CTP16-90	2,600	POA
KDS100	1PAL020M1	SPE145A	CTP26-125	3,550	POA
KDS105	1PAL025M1	SPE145A	CTP26-125	3,900	POA
KDS110	1PAL030M1	SPE155A	CTP26-170	5,050	POA
KDS121	1PAL036M1	SPE165A	CTP36-200	6,000	POA
KDS135	1PAL040M3	SPE175A	CTP36-250	7,250	POA
KDS145	2PAL050M3	SPE175A	CTP36-250	7,900	POA
KDS145	2PAL050M3	SPE175A	CTP36-250	8,500	POA

R407F SYSTEMS

KDS100	1PAL020M1	SPE155F	CTP26-170	5,150	POA
KDS100	1PAL020M1	SPE165F	CTP36-200	5,450	POA
KDS110	1PAL030M1	SPE165F	CTP36-200	7,400	POA
KDS121	1PAL036M1	SPE175F	CTP36-250	8,700	POA
KDS135	1PAL040M3	SPE175F	CTP36-250	9,500	POA

See pages 49&50 for above and below ground cellar selections.

CELLAR COOLING EQUIPMENT



J&E Hall
International

JCC

Cellar cooling system

The JCC cellar cooler range provides a cost effective and reliable solution designed to maintain temperatures required for beer and wine cellars. 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.

CELLAR COOLING SYSTEMS R410A & R404A

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

All systems are pre-charged for 7.6m pipe run. Suitable down to 4°C (40°F). For pipe runs over 15m a suitable fan speed controller must be installed.

Outdoor wall bracket: BRAK048

Suggested fan speed controller: XV105D (DIXL820) + sensor (DIXL974)

Air throw of cooler = 8m

Matched systems (unit coolers and condensing unit)

Extended warranty: see inside back cover.



J&E Hall

Ambient beer cooler

The unit consists of a fan motor, washable filter, controllers, air damper, a pre-wired electrical control box all housed within a powder coated steel casing. Operation is via two electronic temperature controls – one an ambient controller and the other a cellar controller.

CELLAR COOLING SYSTEMS R410A & R404A

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.

BEER CELLARS ABOVE GROUND - BEER CELLAR @ +10°C, ABOVE GROUND, R404A

ROOM VOLUME M3	FT3	DUTY (WATTS)		CONDENSING UNIT		EVAPORATOR MODEL	NO. OF FANS	EXPANSION VALVE & ORIFICE	SOLENOID VALVE	CONTROL PANEL
		REQUIRED	ACTUAL	MODEL	SUPPLY					
79	2,820	4,000	5,150	1PAL020M1	230.1	32	CTP26-170	2	PRE-FITTED	BUILT-IN
85	3,000	5,275	5,450	1PAL020M1	230.1	32	CTP36-200	3	PRE-FITTED	BUILT-IN
129	4,000	7,000	7,400	1PAL030M1	230.1	39	CTP36-200	3	PRE-FITTED	BUILT-IN
135	4,760	7,550	7,800	1PAL030M1	230.1	39	CTP36-250	3	PRE-FITTED	BUILT-IN
170	6,000	8,100	8,700	1PAL036M1	230.1	39	CTP36-250	3	PRE-FITTED	BUILT-IN
226	8,000	8,610	9,500	1PAL040M3	400.3	40	CTP36-250	3	PRE-FITTED	BUILT-IN

NOT SUPPLIED (15M RUN)

LIQUID LINE	SUCTION LINE
3/8"	5/8"
3/8"	5/8"
3/8"	3/4"
3/8"	3/4"
1/2"	3/4"
1/2"	3/4"

BEER CELLARS ABOVE GROUND - BEER CELLAR @ +10°C, ABOVE GROUND, R134A

ROOM VOLUME M3	FT3	DUTY (WATTS)		CONDENSING UNIT		EVAPORATOR MODEL	NO. OF FANS	EXPANSION VALVE & ORIFICE	SOLENOID VALVE	CONTROL PANEL
		REQUIRED	ACTUAL	MODEL	SUPPLY					
21	750	2,100	2,190	PAC012M1	230.1	33	CTP16-60	1	PRE-FITTED	BUILT-IN
28	1,000	2,430	2,600	1PAL015M1	230.1	32	CTP16-90	1	PRE-FITTED	BUILT-IN
42	1,500	3,165	3,550	1PAL020M1	230.1	32	CTP26-125	2	PRE-FITTED	BUILT-IN
54	1,900	3,770	3,900	1PAL025M1	230.1	32	CTP26-125	2	PRE-FITTED	BUILT-IN
79	2,820	4,000	5,050	1PAL030M1	230.1	39	CTP26-170	2	PRE-FITTED	BUILT-IN
85	3,000	5,275	6,000	1PAL036M1	230.1	39	CTP36-200	3	PRE-FITTED	BUILT-IN
129	4,000	7,000	7,250	1PAL040M3	400.3	39	CTP36-250	3	PRE-FITTED	BUILT-IN
135	4,760	7,550	7,900	2PAL050M3	400.3	40	CTP36-200	3	PRE-FITTED	BUILT-IN
170	6,000	8,100	8,500	2PAL050M3	400.3	40	CTP36-250	3	PRE-FITTED	BUILT-IN

NOT SUPPLIED (15M RUN)

LIQUID LINE	SUCTION LINE
1/4"	1/2"
3/8"	5/8"
3/8"	5/8"
3/8"	5/8"
3/8"	3/4"
3/8"	3/4"
3/8"	3/4"
3/8"	7/8"
1/2"	7/8"

BEER CELLARS ABOVE GROUND - BEER CELLAR @ +10°C, ABOVE GROUND, R407F

ROOM VOLUME M3	FT3	DUTY (WATTS)		CONDENSING UNIT		EVAPORATOR MODEL	NO. OF FANS	EXPANSION VALVE & ORIFICE	SOLENOID VALVE	CONTROL PANEL
		REQUIRED	ACTUAL	MODEL	SUPPLY					
79	2,820	4,000	5,150	1PAL020M1	230.1	32	CTP26-170	2	PRE-FITTED	BUILT-IN
85	3,000	5,275	5,450	1PAL020M1	230.1	32	CTP36-200	3	PRE-FITTED	BUILT-IN
129	4,000	7,000	7,400	1PAL030M1	230.1	39	CTP36-200	3	PRE-FITTED	BUILT-IN
135	4,760	7,550	7,800	1PAL030M1	230.1	39	CTP36-250	3	PRE-FITTED	BUILT-IN
170	6,000	8,100	8,700	1PAL036M1	230.1	39	CTP36-250	3	PRE-FITTED	BUILT-IN
226	8,000	8,610	9,500	1PAL040M3	400.3	40	CTP36-250	3	PRE-FITTED	BUILT-IN

NOT SUPPLIED (15M RUN)

LIQUID LINE	SUCTION LINE
3/8"	5/8"
3/8"	5/8"
3/8"	3/4"
3/8"	3/4"
1/2"	3/4"
1/2"	3/4"

PAD units use either Danfoss or Cubigel compressor. PAL units use Copeland scroll compressors. Units ending in M1 are 1ph, ending in M3 are 3ph. Noise levels are in dB(A) at 10m free field.
CTP evaporators are fitted with electric space heater to provide heating to cellar in additions to cooling. Off cycle defrost.

CELLAR PACKAGES

Below ground

BEER CELLARS BELOW GROUND - BEER CELLAR @ +10°C, BELOW GROUND, R404A

ROOM VOLUME		DUTY (WATTS)		CONDENSING UNIT		EVAPORATOR		EXPANSION VALVE & ORIFICE	SOLENOID VALVE	CONTROL PANEL
M3	FT3	REQUIRED	ACTUAL	MODEL	SUPPLY	NOISE LEVEL	MODEL			
21	750	1,750	1,900	PAD008M1	230.1	33	CTP16-60	PRE-FITTED	PRE-FITTED	BUILT-IN
28	1,000	1,930	2,250	PAD010M1	230.1	33	CTP16-70	PRE-FITTED	PRE-FITTED	BUILT-IN
42	1,500	2,770	3,250	PAD012M1	230.1	33	CTP16-90	PRE-FITTED	PRE-FITTED	BUILT-IN
51	1,800	3,300	3,500	1PAL015M1	230.1	32	CTP16-90	PRE-FITTED	PRE-FITTED	BUILT-IN
57	2,000	3,660	3,700	1PAL015M1	230.1	32	CTP26-125	PRE-FITTED	PRE-FITTED	BUILT-IN
85	3,000	4,400	5,100	1PAL020M1	230.1	32	CTP26-170	PRE-FITTED	PRE-FITTED	BUILT-IN
125	4,400	5,540	6,050	1PAL025M1	230.1	32	CTP36-200	PRE-FITTED	PRE-FITTED	BUILT-IN
141	5,000	6,000	7,200	1PAL030M1	230.1	39	CTP36-200	PRE-FITTED	PRE-FITTED	BUILT-IN
148	5,250	7,325	8,000	1PAL030M1	230.1	39	CTP36-250	PRE-FITTED	PRE-FITTED	BUILT-IN
148	5,250	7,325	8,000	1PAL036M1	230.1	39	CTP36-200	PRE-FITTED	PRE-FITTED	BUILT-IN
175	6,183	7,835	8,600	1PAL036M1	230.1	39	CTP36-250	PRE-FITTED	PRE-FITTED	BUILT-IN
245	8,660	9,375	10,000	1PAL040M3	400.3	39	CTP36-250	PRE-FITTED	PRE-FITTED	BUILT-IN

NOT SUPPLIED (15M RUN)

LIQUID LINE	SUCTION LINE
3/8"	1/2"
3/8"	1/2"
3/8"	1/2"
3/8"	1/2"
3/8"	5/8"
1/2"	3/4"
1/2"	3/4"
1/2"	7/8"
1/2"	7/8"
1/2"	7/8"
1/2"	7/8"

BEER CELLARS BELOW GROUND - BEER CELLAR @ +10°C, BELOW GROUND, R134A

ROOM VOLUME		DUTY (WATTS)		CONDENSING UNIT		EVAPORATOR		EXPANSION VALVE & ORIFICE	SOLENOID VALVE	CONTROL PANEL
M3	FT3	REQUIRED	ACTUAL	MODEL	SUPPLY	NOISE LEVEL	MODEL			
28	1,000	1,930	2,190	PAC012M1	230.1	33	CTP16-60	PRE-FITTED	PRE-FITTED	BUILT-IN
42	1,500	2,770	2,600	1PAL015M1	230.1	32	CTP16-90	PRE-FITTED	PRE-FITTED	BUILT-IN
51	1,800	3,300	3,550	1PAL020M1	230.1	32	CTP26-125	PRE-FITTED	PRE-FITTED	BUILT-IN
57	2,000	3,600	3,900	1PAL025M1	230.1	32	CTP26-125	PRE-FITTED	PRE-FITTED	BUILT-IN
85	3,000	4,400	5,050	1PAL030M1	230.1	39	CTP26-170	PRE-FITTED	PRE-FITTED	BUILT-IN
125	4,400	5,540	6,000	1PAL036M1	230.1	39	CTP36-200	PRE-FITTED	PRE-FITTED	BUILT-IN
141	5,000	6,000	7,250	1PAL040M3	400.3	39	CTP36-250	PRE-FITTED	PRE-FITTED	BUILT-IN
148	5,250	7,325	7,900	2PAL050M3	400.3	40	CTP36-200	PRE-FITTED	PRE-FITTED	BUILT-IN
175	6,183	7,835	8,500	2PAL050M3	400.3	40	CTP36-250	PRE-FITTED	PRE-FITTED	BUILT-IN

NOT SUPPLIED (15M RUN)

LIQUID LINE	SUCTION LINE
1/4"	1/2"
3/8"	5/8"
3/8"	5/8"
3/8"	5/8"
3/8"	5/8"
3/8"	3/4"
3/8"	3/4"
3/8"	3/4"
3/8"	7/8"
1/2"	7/8"

BEER CELLARS BELOW GROUND - BEER CELLAR @ +10°C, BELOW GROUND, R407F

ROOM VOLUME		DUTY (WATTS)		CONDENSING UNIT		EVAPORATOR		EXPANSION VALVE & ORIFICE	SOLENOID VALVE	CONTROL PANEL
M3	FT3	REQUIRED	ACTUAL	MODEL	SUPPLY	NOISE LEVEL	MODEL			
85	3,000	4,400	5,150	1PAL020M1	230.1	32	CTP26-170	PRE-FITTED	PRE-FITTED	BUILT-IN
125	4,400	5,540	5,450	1PAL020M1	230.1	32	CTP36-200	PRE-FITTED	PRE-FITTED	BUILT-IN
141	5,000	6,000	6,150	1PAL025M1	230.1	32	CTP36-200	PRE-FITTED	PRE-FITTED	BUILT-IN
148	5,250	7,325	7,400	1PAL030M1	230.1	39	CTP36-200	PRE-FITTED	PRE-FITTED	BUILT-IN
175	6,183	7,835	8,700	1PAL036M1	230.1	39	CTP36-250	PRE-FITTED	PRE-FITTED	BUILT-IN
245	8,660	9,375	9,500	1PAL040M3	400.3	40	CTP36-250	PRE-FITTED	PRE-FITTED	BUILT-IN

NOT SUPPLIED (15M RUN)

LIQUID LINE	SUCTION LINE
3/8"	5/8"
3/8"	5/8"
3/8"	3/4"
3/8"	3/4"
1/2"	3/4"
1/2"	3/4"

PAD units use either Danfoss or Cubigel compressor. PAL units use Copeland scroll compressors. Units ending in M1 are 1ph, ending in M3 are 3ph. Noise levels are in dB(A) at 10m free field. CTP evaporators are fitted with electric space heater to provide heating to cellar in additions to cooling. Off cycle defrost.



TDM Range Commercial cooler

Capacities:

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

The KD TDM is a low profile air cooler, with 6 mm fin spacing making it suitable for both chiller and freezer room applications.

6.0MM FIN SPACING - SINGLE-PHASE MOTORS - WHITE FINISH WITH PRE-FITTED EXANSION VALVE

CODE	MODEL	CAPACITY WATTS		AIR THROW M	CONNECTIONS		NO. OF FANS	TXV EQUAL	(WL) LIST £ EA
		(1)	(2)		INLET	OUTLET			
KEV100	TDM1-ED	1,223	975	7	1/2"	5/8"	2	EXT	299.64
KEV105	TDM2-ED	1,694	1,352	7	1/2"	5/8"	2	EXT	326.07
KEV110	TDM3-ED	2,514	2,006	7.5	1/2"	5/8"	3	EXT	409.80
KEV115	TDM4-ED	2,869	2,289	7.5	1/2"	3/4"	3	EXT	462.67
KEV120	TDM5-ED	3,279	2,617	8	1/2"	3/4"	4	EXT	506.74
KEV125	TDM6-ED	3,825	3,052	8	1/2"	7/8"	4	EXT	530.97

Air throw at 0.25 m/s.



CSD 35 Evaporator

Capacities:

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

The KD CSD 35 comes factory fitted with all the features below as standard:

Pre fitted expansion valve on all models.

Increased air throw with factory fitted air straightener.

Low noise Ziehl-Abegg fan motor.

Capacity range – 3.0 to 19.0 kw (EN 328)

High efficiency inner grooved copper tube (DIA 3/8").

Powder painted aluminium case.

PVC Terminal Box (IP66)

Electric defrost

Double drain pan

6.0MM FIN SPACING - SINGLE-PHASE MOTORS - WHITE FINISH WITH PRE-FITTED EXANSION VALVE

CODE	MODEL	CAPACITY WATTS		AIR THROW M	CONNECTIONS		NO. OF FANS	(WL) LIST £ EA
		(1)	(2)		INLET	OUTLET		
KEV300	CSD35-020M	3,001	2,200	23	1/2"	7/8"	1	663.16
KEV305	CSD35-030M	4,616	3,416	21	1/2"	7/8"	1	778.83
KEV310	CSD35-040M	6,154	4,554	25	5/8"	7/8"	2	1,000.25
KEV315	CSD35-050M	7,789	5,764	24	5/8"	1.1/8"	2	1,161.09
KEV320	CSD35-075M	9,403	6,958	23	5/8"	1.3/8"	2	1,238.20
KEV325	CSD35-100M	14,214	10,518	25	7/8"	1.3/8"	3	1,698.67
KEV330	CSD35-120M	15,794	11,688	26	7/8"	1.5/8"	4	1,996.10
KEV335	CSD35-150M	19,033	14,084	27	7/8"	1.5/8"	4	2,093.04

EVAPORATORS



KD
Cool prep

REFRIGERATION CASSETTE STYLE COOLER - COOL-PREP

CODE	MODEL	CAPACITY WATTS		AIR THROW M ³ /HR	CONNECTIONS		NO. OF FANS	TXV EQUAL	(BF) LIST £ EA
		(3)	(4)		INLET	OUTLET			
KEV200	CHW057H	3,763	3,746	2,520	1/2"	7/8"	1	EXT	1,230.00
KEV205	CHW087H	5,736	5,723	2,640	5/8"	1.1/8"	1	EXT	1,418.00
KEV210	CHW115H	6,244	6,184	3,180	5/8"	1.1/8"	2	EXT	1,565.00
KEV215	CHW131H	7,616	7,559	4,080	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 4.0mm 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	6,700	1PAL025M1
CHW-131H	7,000	1PAL025M1

Based on R404A with an ambient of 32°C.



UNIVAP

VA/VP Range Coolers for cabinets

4.5 mm fin spacing, single phase motor and white finish. VA for central mounting, VP for back mounting and VS for ceiling mounting.

Capacities: 1) TLI 0°C, DTI=8K, R404A 2) TLI -18°C, DTI=7K, R404A

VA/VP RANGE - 4.5MM FIN SPACING - SINGLE PHASE MOTORS - WHITE FINISH

CODE	MODEL	CAPACITY WATTS (1)	AIR THROW M	CONNECTIONS		NO. OF FANS	TXV EQUAL	(BF) LIST £ EA
				INLET	OUTLET			
EVB330	VA 1	460	3	3/8"	3/8"	2	INT	138.15
EVB332	VA 2	550	3	3/8"	3/8"	2	INT	169.60
EVB336	VP 1	280	3	3/8"	3/8"	1	INT	96.60
EVB338	VP 2	460	3	3/8"	3/8"	2	INT	138.15
EVB340	VP 3	550	3	3/8"	3/8"	2	INT	169.60
EVB342	VS 1	280	3	3/8"	3/8"	1	INT	115.69
EVB344	VS 2	460	3	3/8"	3/8"	2	INT	159.49
EVB346	VS 3	550	3	3/8"	3/8"	2	INT	185.33



CR Range

Light commercial cooler

4.5/9.0 mm dual fin spacing, single phase motor and white finish. Ceiling mount as standard, optional wall mounting kit available.

CR RANGE - 4.5MM FIN SPACING - DUAL FIN SPACING - SINGLE PHASE MOTORS - WHITE

CODE	MODEL	CAPACITY WATTS		AIR THROW M	CONNECTIONS		NO. OF FANS	TXV EQUAL	(BF) LIST £ EA
		(1)	(2)		INLET	OUTLET			
EVB011	CR 1	350	277	4	3/8"	3/8"	1	INT	166.23
EVB021	CR 2	390	308	4	3/8"	3/8"	1	INT	177.47
EVB031	CR 3	460	363	4	3/8"	3/8"	1	INT	196.56
EVB041	CR 4	1,040	822	4	3/8"	3/8"	2	INT	240.37
EVB051	CR 5	1,100	869	4	1/2"	5/8"	2	EXT	311.13
EVB061	CR 6	1,390	1,098	4	1/2"	5/8"	3	EXT	377.40
EVB071	CR 7	1,750	1,383	4	1/2"	5/8"	4	EXT	487.47



MA Range

Light commercial cooler

5.5 mm fin spacing, single phase motor and white finish. Ceiling mount as standard.

MA RANGE - 5.5MM FIN SPACING - DUAL FIN SPACING - SINGLE PHASE MOTORS - WHITE

CODE	MODEL	CAPACITY WATTS		AIR THROW M	CONNECTIONS		NO. OF FANS	TXV EQUAL	(BF) LIST £ EA
		(1)	(2)		INLET	OUTLET			
EVB350	MA 1	1,000	800	7	3/8"	3/8"	1	INT	169.60
EVB355	MA 2	1,100	880	7	3/8"	3/8"	1	INT	186.45
EVB360	MA 3	1,900	1,520	7	1/2"	5/8"	2	EXT	320.10
EVB365	MA 4	2,300	1,840	7	1/2"	7/8"	2	EXT	345.95
EVB370	MA 5	2,900	2,320	7	1/2"	7/8"	3	EXT	466.13
EVB375	MA 6	3,400	2,720	7	1/2"	7/8"	3	EXT	489.72
EVB380	MA 7	3,900	3,120	7	1/2"	7/8"	4	EXT	608.77
EVB385	MA 8	4,500	3,600	7	1/2"	7/8"	4	EXT	642.47



TC Range

Commercial cooler

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

With 3.5 or 5.5 mm spacing, single phase motor, white finish and some models with electric defrost.

TC RANGE - 3.5MM FIN SPACING - SINGLE-PHASE MOTORS - WHITE CASING 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	1,900	1,520	9	1/2"	7/8"	1	EXT	405.48
EVB109	TCH/e 2	2,500	2,000	9	1/2"	7/8"	1	EXT	432.43
EVB114	TCH/e 3	3,900	3,120	9	5/8"	7/8"	2	EXT	613.27
EVB119	TCH/e 4	5,000	4,000	9	5/8"	7/8"	2	EXT	677.29
EVB124	TCH/e 5	7,600	6,080	9	7/8"	1.1/8"	3	EXT	989.54
EVB129	TCH/e 6	10,000	8,000	9	7/8"	1.1/8"	4	EXT	1,273.71
EVB134	TCH/e 7	12,200	9,760	9	7/8"	1.1/8"	5	EXT	1,573.60
EVB139	TCH/e 8	14,800	11,840	9	7/8"	1.1/8"	6	EXT	1,892.59
EVB144	TCH/e 9	17,500	14,000	9	7/8"	1.1/8"	6	EXT	1,999.30

TC RANGE - 5.5MM FIN SPACING - SINGLE-PHASE MOTORS - WHITE CASING FINISH

EVB154	TCM/e 1	1,500	1,200	10	1/2"	7/8"	1	EXT	390.87
EVB159	TCM/e 2	2,000	1,600	10	1/2"	7/8"	1	EXT	415.58
EVB164	TCM/e 3	3,000	2,400	10	5/8"	7/8"	2	EXT	589.68
EVB169	TCM/e 4	4,000	3,200	10	5/8"	7/8"	2	EXT	643.59
EVB172	TCM/e 5	6,000	4,800	10	7/8"	1.1/8"	3	EXT	947.98
EVB179	TCM/e 6	8,000	6,400	10	7/8"	1.1/8"	4	EXT	1,217.55
EVB184	TCM/e 7	9,600	7,680	10	7/8"	1.1/8"	5	EXT	1,505.09
EVB189	TCM/e 8	11,800	9,440	10	7/8"	1.1/8"	6	EXT	1,811.72
EVB194	TCM/e 9	14,300	11,440	10	7/8"	1.1/8"	6	EXT	1,895.96

EVAPORATORS

TC Range

Commercial cooler

TC RANGE - 3.5MM FIN SPACING - SINGLE-PHASE MOTORS - WHITE CASING FINISH - ELECTRIC DEFROST

CODE	MODEL	CAPACITY WATTS		AIR THROW M	CONNECTIONS		NO. OF FANS	TXV EQUAL	(BF) LIST £ EA
		(1)	(2)		INLET	OUTLET			
EVB104E	TCH/e 1-ED	1,900	1,520	9	1/2"	7/8"	1	EXT	494.21
EVB109E	TCH/e 2-ED	2,500	2,000	9	1/2"	7/8"	1	EXT	521.17
EVB114E	TCH/e 3-ED	3,900	3,120	9	5/8"	7/8"	2	EXT	717.73
EVB119E	TCH/e 4-ED	5,000	4,000	9	5/8"	7/8"	2	EXT	768.27
EVB124E	TCH/e 5-ED	7,600	6,080	9	7/8"	1.1/8"	3	EXT	1,098.49
EVB129E	TCH/e 6-ED	10,000	8,000	9	7/8"	1.1/8"	4	EXT	1,421.97
EVB134E	TCH/e 7-ED	12,200	9,760	9	7/8"	1.1/8"	5	EXT	1,722.99
EVB139E	TCH/e 8-ED	14,800	11,840	9	7/8"	1.1/8"	6	EXT	2,058.83
EVB144E	TCH/e 9-ED	17,500	14,000	9	7/8"	1.1/8"	6	EXT	2,164.41

TC RANGE - 5.5MM FIN SPACING - SINGLE-PHASE MOTORS - WHITE CASING FINISH - ELECTRIC DEFROST

EVB154E	TCM/e 1-ED	1,500	1,200	10	1/2"	7/8"	1	EXT	480.73
EVB159E	TCM/e 2-ED	2,000	1,600	10	1/2"	7/8"	1	EXT	504.32
EVB164E	TCM/e 3-ED	3,000	2,400	10	5/8"	7/8"	2	EXT	688.52
EVB169E	TCM/e 4-ED	4,000	3,200	10	5/8"	7/8"	2	EXT	750.30
EVB172E	TCM/e 5-ED	6,000	4,800	10	7/8"	1.1/8"	3	EXT	1,056.93
EVB179E	TCM/e 6-ED	8,000	6,400	10	7/8"	1.1/8"	4	EXT	1,362.44
EVB184E	TCM/e 7-ED	9,600	7,680	10	7/8"	1.1/8"	5	EXT	1,654.47
EVB189E	TCM/e 8-ED	11,800	9,440	10	7/8"	1.1/8"	6	EXT	1,976.83
EVB194E	TCM/e 9-ED	14,300	11,440	10	7/8"	1.1/8"	6	EXT	2,062.20



TS/SR Range

Dual discharge cooler

1) TL1, 0°C, DT1=8K R404A 2) TL1, -18°C, DT1=7K R404A
3.2 or 5.5 mm spacing, single phase motors and white finish.

TS RANGE - 3.2MM FIN SPACING - SINGLE-PHASE MOTORS - WHITE CASING FINISH

CODE	MODEL	CAPACITY WATTS		AIR THROW M	CONNECTIONS		NO. OF FANS	TXV EQUAL	(BF) LIST £ EA
		(1)	(2)		INLET	OUTLET			
EVB316	TSH/e 1	2,400	1,920	8	1/2"	5/8"	1	EXT	493.09
EVB317	TSH/e 2	3,600	2,880	8	1/2"	7/8"	2	EXT	718.85
EVB318	TSH/e 3	7,000	5,600	8	5/8"	1.1/8"	3	EXT	970.45
EVB319	TSH/e 4	8,600	6,880	8	5/8"	1.1/8"	4	EXT	1,311.90
EVB320	TSH/e 5	11,500	9,200	8	5/8"	1.5/8"	5	EXT	1,583.71
EVB321	TSH/e 6	13,000	10,400	8	5/8"	1.5/8"	6	EXT	1,907.19

TS RANGE - 3.2MM FIN SPACING - SINGLE-PHASE MOTORS - WHITE CASING FINISH

EVB323	TSM/e 1	1,800	1,440	9	1/2"	5/8"	1	EXT	476.24
EVB324	TSM/e 2	3,600	2,880	9	1/2"	7/8"	2	EXT	682.91
EVB325	TSM/e 3	5,400	4,320	9	5/8"	1.1/8"	3	EXT	912.04
EVB326	TSM/e 4	7,200	5,760	9	5/8"	1.1/8"	4	EXT	1,238.89
EVB327	TSM/e 5	9,500	7,600	9	5/8"	1.5/8"	5	EXT	1,490.49
EVB328	TSM/e 6	11,000	8,800	9	5/8"	1.5/8"	6	EXT	1,788.13

SR RANGE - 5.5MM FIN SPACING - SINGLE PHASE MOTORS - WHITE CASING FINISH

EVB242	SR 1	1,000	800	3.5	1/2"	5/8"	1	INT	235.87
EVB244	SR 2	2,000	1,600	3.5	1/2"	5/8"	2	EXT	358.30
EVB246	SR 3	3,100	2,480	3.5	5/8"	7/8"	3	EXT	511.06
EVB248	SR 4	4,100	3,280	3.5	5/8"	7/8"	4	EXT	607.65



LA Range

Low speed dual discharge

3.2 or 6.0 mm fin spacing, single phase motor and white finish.

L RANGE - 3.2MM FIN SPACING - SINGLE PHASE MOTORS - WHITE CASING FINISH

CODE	MODEL	CAPACITY WATTS (1)	CAPACITY WATTS (2)	AIR THROW M	CONNECTIONS INLET	CONNECTIONS OUTLET	NO. OF FANS	TXV EQUAL	(BF) LIST £ EA
EVB401	LAH 1	2,500	2,000	3	1/2"	5/8"	2	EXT	527.90
EVB402	LAH 2	3,500	2,800	3	1/2"	5/8"	2	EXT	653.70
EVB403	LAH 3	5,000	4,000	3	1/2"	7/8"	2	EXT	867.11
EVB404	LAH 4	6,000	4,800	3	1/2"	7/8"	2	EXT	961.46
EVB405	LAH 5	7,500	6,000	3	5/8"	1.1/8"	2	EXT	1,190.59
EVB406	LAH 6	9,000	7,200	3	5/8"	1.1/8"	2	EXT	1,541.03

L RANGE - 6.0MM FIN SPACING - SINGLE PHASE MOTORS - WHITE CASING FINISH

EVB411	LAM 1	2,000	1,660	3	1/2"	5/8"	2	EXT	499.82
EVB412	LAM 2	3,000	2,400	3	1/2"	5/8"	2	EXT	630.12
EVB413	LAM 3	4,000	3,200	3	1/2"	7/8"	2	EXT	830.05
EVB414	LAM 4	5,000	4,000	3	1/2"	7/8"	2	EXT	909.79
EVB415	LAM 5	6,000	4,800	3	5/8"	1.1/8"	2	EXT	1,116.46
EVB416	LAM 6	8,000	6,400	3	5/8"	1.1/8"	2	EXT	1,427.59

Univap

Heaters and spares

CR Range

CODE	DESCRIPTION	(BG) LIST £
EVB551	HEATER KIT - CR1 + CR 2	26.00
EVB552	HEATER KIT - CR 3	31.20
EVB553	HEATER KIT - CR 4	31.20
EVB554	HEATER KIT - CR 5	36.40
EVB555	HEATER KIT - CR 6	41.60
EVB556	HEATER KIT - CR 7	46.80
EVB081	WALL MOUNTING KIT CR 1 + CR 2 (WHITE)	34.32
EVB083	WALL MOUNTING KIT CR 3 (WHITE)	44.72
EVB085	WALL MOUNTING KIT CR 4 (WHITE)	47.84
EVB087	WALL MOUNTING KIT CR 5 (WHITE)	49.92
EVB089	WALL MOUNTING KIT CR 6 (WHITE)	52.00
EVB091	WALL MOUNTING KIT CR 7 (WHITE)	67.60
EVB494	HEATER FOR EVB081 WALL MOUNTING KIT	24.96
EVB495	HEATER FOR EVB083 WALL MOUNTING KIT	32.24
EVB495	HEATER FOR EVB085 WALL MOUNTING KIT	34.32
EVB497	HEATER FOR EVB087 WALL MOUNTING KIT	36.40

Replacement fan motor - EBM010

TC Range

EVB510	HEATER KIT - TC 1 + TC 2	106.08
EVB511	HEATER KIT - TC 3 + TC 4	124.80
EVB512	HEATER KIT - TC 5	130.00
EVB513	HEATER KIT - TC 6	188.24
EVB514	HEATER KIT - TC 7	221.52
EVB515	HEATER KIT - TC 8 + TC 9	241.28
EVB811	FAN MOTOR - ALL MODELS	42.12
BRAK011	PAIR OF GALLOWS BRACKETS	50.00

EVAPORATORS

Univap

Heaters and spares

MA Range

CODE	DESCRIPTION	(BG) LIST £
EVB650	HEATER KIT - MA 1 + MA 2	42.64
EVB655	HEATER KIT - MA 3 + MA 4	55.12
EVB660	HEATER KIT - MA 5 + MA 6	69.68
EVB665	HEATER KIT - MA 7 + MA 8	81.12
EVB813	FAN MOTOR - ALL MODELS	37.96

TS/SR Range

EVB704	HEATER KIT - TS 1	67.60
EVB705	HEATER KIT - TS 2	78.00
EVB706	HEATER KIT - TS 3	81.12
EVB707	HEATER KIT - TS 4	111.28
EVB708	HEATER KIT - TS5	126.88
EVB709	HEATER KIT - TS 6	146.64
EVB711	HEATER KIT - SR 1	42.60
EVB713	HEATER KIT - SR 2	56.16
EVB715	HEATER KIT - SR 3	71.76
EVB717	HEATER KIT - SR 4	78.00
EVB811	FAN MOTOR - TS RANGE	42.12
EVB813	FAN MOTOR - SR RANGE	37.96

LA Range

EVB580	HEATER KIT - LA 1	105.04
EVB581	HEATRE KIT - LA 2	135.20
EVB582	HEATER KIT - LA 3	145.60
EVB583	HEATER KIT - LA 4	158.08
EVB584	HEATER KIT - LA 5	205.92
EVB585	HEATER KIT - LA 6	224.64
EVB811	FAN MOTOR - ALL MODELS	42.12



SP Green Line Commercial cooler

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.

4.00 mm (SPA) or 7.0mm (SPB) fin spacing

Maximum energy efficiency due to low power consumption and great overall system efficiency.

Performance-optimized heat exchanger, with the best fan system available today.

Innovative hygienic design assures thorough cleaning of heat exchanger and fan.

COMMERCIAL - MARKET PLUS SP, 4.0MM FIN SPACING - WHITE

CODE	MODEL	CAPACITY		AIR THROW M	NO. OF FANS	(BN) LIST £ EA
		KW NB1	KW NB2			
KUSP010	SPA 23-F21	1.9	1.3	7	1	423.83
KUSP020	SPA 23-F31	2.1	1.6	6	1	499.08
KUSP030	SPA 30-F21	3.1	2.1	10	1	562.31
KUSP040	SPA 30-F31	3.9	2.6	10	1	595.06
KUSP050	SPA 35-F21	5.2	3.5	18	1	746.37
KUSP060	SPA 35-F31	6.5	4.3	17	1	828.79
KUSP070	SPA 35-F41	7.4	5.0	16	1	939.44
KUSP080	SPA 45-F31	11.4	7.6	24	1	1,152.86
KUSP090	SPA 45-F41	12.9	8.7	23	1	1,249.96
KUSP094	SPA 45-F51	15.6	10.5	27	1	1,605.64
KUSP096	SPA 45-F71	16.7	11.3	24	1	1,843.89
KUSP100	SPA 23-F32	4.7	3.1	12	2	737.33
KUSP110	SPA 30-F22	6.3	4.2	16	2	910.09
KUSP120	SPA 30-F32	7.8	5.2	15	2	949.61
KUSP130	SPA 35-F22	10.5	7.0	24	2	1,233.02
KUSP140	SPA 35-F32	13.2	8.9	22	2	1,424.97
KUSP150	SPA 35-F42	14.9	10.0	21	2	1,585.31
KUSP160	SPA 45-F32	22.8	15.3	30	2	1,922.93
KUSP170	SPA 45-F42	25.9	17.4	29	2	2,091.17
KUSP174	SPA 45-F52	30.6	20.6	32	2	2,629.77
KUSP176	SPA 45-F72	33.4	22.7	30	2	3,197.72
KUSP180	SPA 23-F33	7.2	4.8	15	3	1,161.89
KUSP190	SPA 30-F23	9.6	6.4	19	3	1,274.80
KUSP200	SPA 30-F33	11.7	7.9	19	3	1,365.14
KUSP210	SPA 35-F23	15.3	10.2	27	3	1,811.14
KUSP220	SPA 35-F33	19.4	13.0	26	3	1,987.29
KUSP230	SPA 35-F43	22.2	14.9	25	3	2,188.27
KUSP240	SPA 45-F33	34.3	22.9	33	3	2,892.86
KUSP250	SPA 45-F43	39.5	26.6	32	3	3,144.66
KUSP254	SPA 45-F53	47.6	32.1	36	3	4,031.03
KUSP256	SPA 45-F73	48.8	33.0	33	3	4,510.92
KUSP260	SPA 23-F34	9.4	6.3	18	4	1,365.14
KUSP270	SPA 30-F24	12.7	8.5	22	4	1,668.87
KUSP280	SPA 30-F34	15.4	10.3	21	4	1,755.82
KUSP290	SPA 35-F24	20.6	13.7	30	4	2,288.77
KUSP300	SPA 35-F34	26.1	17.5	28	4	2,682.84
KUSP310	SPA 35-F44	29.8	20.0	27	4	2,809.30
KUSP320	SPA 45-F34	44.8	30.0	36	4	3,673.10
KUSP330	SPA 45-F44	51.9	34.9	35	4	4,008.45
KUSP334	SPA 45-F54	62.5	42.1	38	4	5,015.64
KUSP336	SPA 45-F74	66.9	45.6	36	4	5,977.67
KUSP340	SPA 35-F45	36.8	24.7	29	5	4,111.20

WITH ELECTRIC DEFROST

CODE	MODEL	(BN) LIST £ EA
KUSP010E	SPAE 23-F21	468.60
KUSP020E	SPAE 23-F32	563.45
KUSP030E	SPAE 30-F21	628.94
KUSP040E	SPAE 30-F31	714.75
KUSP050E	SPAE 35-F21	820.89
KUSP060E	SPAE 35-F31	912.35
KUSP070E	SPAE 35-F41	1,033.17
KUSP080E	SPAE 45-F31	1,269.15
KUSP090E	SPAE 45-F41	1,374.17
KUSP094E	SPAE 45-F51	1,843.89
KUSP096E	SPAE 45-F71	2,055.03
KUSP100E	SPAE 23-F32	810.72
KUSP110E	SPAE 30-F22	1,001.55
KUSP120E	SPAE 30-F32	1,044.46
KUSP130E	SPAE 35-F22	1,356.10
KUSP140E	SPAE 35-F32	1,567.25
KUSP150E	SPAE 35-F42	1,743.39
KUSP160E	SPAE 45-F32	2,114.88
KUSP170E	SPAE 45-F42	2,300.06
KUSP174E	SPAE 45-F52	2,922.21
KUSP176E	SPAE 45-F72	3,463.08
KUSP180E	SPAE 23-F33	1,278.19
KUSP190E	SPAE 30-F23	1,402.39
KUSP200E	SPAE 30-F33	1,500.63
KUSP210E	SPAE 35-F23	1,991.80
KUSP220E	SPAE 35-F33	2,186.02
KUSP230E	SPAE 35-F43	2,407.33
KUSP240E	SPAE 45-F33	3,181.92
KUSP250E	SPAE 45-F43	3,458.56
KUSP254E	SPAE 45-F53	4,330.26
KUSP256E	SPAE 45-F73	4,915.15
KUSP260E	SPAE 23-F34	1,500.63
KUSP270E	SPAE 30-F24	1,819.05
KUSP280E	SPAE 30-F34	1,930.83
KUSP290E	SPAE 35-F24	2,517.98
KUSP300E	SPAE 35-F34	2,951.57
KUSP310E	SPAE 35-F44	3,047.55
KUSP320E	SPAE 45-F34	4,040.06
KUSP330E	SPAE 45-F44	4,409.30
KUSP334E	SPAE 45-F54	5,599.41
KUSP336E	SPAE 45-F74	6,415.77
KUSP340E	SPAE 35-F45	4,522.21

EVAPORATORS

SP Green Line Commercial cooler

COMMERCIAL - MARKET PLUS SP, 7.0MM FIN SPACING - WHITE

CODE	MODEL	CAPACITY		AIR THROW M	NO. OF FANS	(BN) LIST £ EA
		KW NB2	KW NB3			
KUSP350	SPB 23-F21	0.9	0.6	7	1	401.97
KUSP360	SPB 23-F31	1.2	0.8	7	1	452.79
KUSP370	SPB 30-F21	1.5	1.1	11	1	513.76
KUSP380	SPB 30-F31	2.0	1.4	11	1	570.22
KUSP390	SPB 35-F21	2.4	1.6	19	1	628.94
KUSP400	SPB 35-F31	3.3	2.4	19	1	754.27
KUSP410	SPB 35-F41	4.0	2.9	18	1	822.01
KUSP420	SPB 45-F31	5.6	4.0	26	1	1,001.55
KUSP430	SPB 45-F41	6.8	5.1	25	1	1,194.63
KUSP434	SPB 45-F51	8.7	6.5	31	1	1,404.65
KUSP436	SPB 45-F71	10.3	7.9	29	1	1,636.13
KUSP440	SPB 23-F32	2.3	1.8	12	2	656.04
KUSP450	SPB 30-F22	3.0	2.1	17	2	788.14
KUSP460	SPB 30-F32	4.0	2.9	16	2	888.64
KUSP470	SPB 35-F22	4.9	3.3	25	2	1,035.43
KUSP480	SPB 35-F32	6.6	4.5	24	2	1,233.02
KUSP490	SPB 35-F42	8.0	5.8	24	2	1,409.17
KUSP500	SPB 45-F32	11.3	8.0	32	2	1,796.47
KUSP510	SPB 45-F42	13.6	10.3	31	2	1,979.39
KUSP514	SPB 45-F52	17.2	13.3	37	2	2,301.19
KUSP516	SPB 45-F72	20.7	15.9	34	2	2,822.85
KUSP520	SPB 23-F33	3.5	2.5	16	3	927.03
KUSP530	SPB 30-F23	4.5	3.0	20	3	1,148.34
KUSP540	SPB 30-F33	6.0	4.3	20	3	1,207.06
KUSP550	SPB 35-F23	7.2	5.3	28	3	1,399.01
KUSP560	SPB 35-F33	9.8	7.2	28	3	1,539.02
KUSP570	SPB 35-F43	11.9	8.8	27	3	1,828.08
KUSP580	SPB 45-F33	16.9	12.1	35	3	2,469.43
KUSP590	SPB 45-F43	20.6	14.9	34	3	2,594.76
KUSP594	SPB 45-F53	26.4	19.1	40	3	3,437.10
KUSP596	SPB 45-F73	30.4	24.2	38	3	3,976.83
KUSP600	SPB 23-F34	4.6	3.5	18	4	1,081.72
KUSP610	SPB 30-F24	6.0	4.2	23	4	1,350.45
KUSP620	SPB 30-F34	7.9	6.0	22	4	1,467.88
KUSP630	SPB 35-F24	9.7	6.9	31	4	1,744.53
KUSP640	SPB 35-F34	13.2	9.5	30	4	2,104.72
KUSP650	SPB 35-F44	16.0	11.6	30	4	2,423.13
KUSP660	SPB 45-F34	22.3	16.7	38	4	3,031.75
KUSP670	SPB 45-F44	27.2	20.6	37	4	3,438.24
KUSP674	SPB 45-F54	34.9	26.4	43	4	4,387.84
KUSP676	SPB 45-F74	41.5	31.9	40	4	5,305.83
KUSP680	SPB 35-F45	19.8	14.9	31	5	3,563.57

WITH ELECTRIC DEFROST

CODE	MODEL	(BN) LIST £ EA
KUSP350E	SPBE 23-F21	462.95
KUSP360E	SPBE 23-F31	516.02
KUSP370E	SPBE 30-F21	615.39
KUSP380E	SPBE 30-F31	684.26
KUSP390E	SPBE 35-F21	698.94
KUSP400E	SPBE 35-F31	844.60
KUSP410E	SPBE 35-F41	920.25
KUSP420E	SPBE 45-F31	1,112.21
KUSP430E	SPBE 45-F41	1,326.75
KUSP434E	SPBE 45-F51	1,580.80
KUSP436E	SPBE 45-F71	1,860.82
KUSP440E	SPBE 23-F32	728.30
KUSP450E	SPBE 30-F22	875.09
KUSP460E	SPBE 30-F32	977.84
KUSP470E	SPBE 35-F22	1,139.31
KUSP480E	SPBE 35-F32	1,356.10
KUSP490E	SPBE 35-F42	1,578.54
KUSP500E	SPBE 45-F32	1,931.96
KUSP510E	SPBE 45-F42	2,176.98
KUSP514E	SPBE 45-F52	2,506.69
KUSP516E	SPBE 45-F72	3,122.08
KUSP520E	SPBE 23-F33	1,102.04
KUSP530E	SPBE 30-F23	1,262.38
KUSP540E	SPBE 30-F33	1,327.87
KUSP550E	SPBE 35-F23	1,539.02
KUSP560E	SPBE 35-F33	1,692.59
KUSP570E	SPBE 35-F43	2,011.00
KUSP580E	SPBE 45-F33	2,642.19
KUSP590E	SPBE 45-F43	2,829.62
KUSP594E	SPBE 45-F53	3,437.10
KUSP596E	SPBE 45-F73	4,425.11
KUSP600E	SPBE 23-F34	1,178.82
KUSP610E	SPBE 30-F24	1,484.82
KUSP620E	SPBE 30-F34	1,614.67
KUSP630E	SPBE 35-F24	1,918.41
KUSP640E	SPBE 35-F34	2,357.64
KUSP650E	SPBE 35-F44	2,641.06
KUSP660E	SPBE 45-F34	3,303.86
KUSP670E	SPBE 45-F44	3,747.62
KUSP674E	SPBE 45-F54	4,801.10
KUSP676E	SPBE 45-F74	5,717.96
KUSP680E	SPBE 35-F45	3,849.24



SP Green Line - Junior DF

Light commercial cooler

Capacities (R404A)

1) TL1 0°C, DT = 8K 2) TL2 -18°C, DT1 = 7K 3) TL3 +10°C, DT1 = 10K

Airthrow measured at airspeed of 0.5m/s.

The Kuba Junior DF is supplied with the following product features:

4.5 mm (DFA) or 7.0mm (DPB) fin spacing

Ceiling mounted

Aluminium casing smooth powder coated (RAL9018)

Hinged double drip tray

Fans pre-wired to a terminal box

LIGHT COMMERCIAL - JUNIOR DF-4.5MM FIN SPACING-WHITE

CODE	MODEL	CAPACITY		AIR THROW M	NO. OF FANS	(BN) LIST £ EA
		KW (1)	KW (2)			
KUBA900	DFA011E	0.46	0.37	5	1	199.39
KUBA901	DFA021E	0.56	0.45	5	1	221.42
KUBA902	DFA031E	0.67	0.54	5	1	258.88
KUBA905	DFA022E	1.12	0.89	6	2	360.22
KUBA906	DFA032E	1.34	1.07	6	2	402.08
KUBA908	DFA023E	1.68	1.34	9	3	514.45
KUBA909	DFA033E	2.01	1.61	9	3	615.79

WITH ELECTRIC DEFROST

CODE	MODEL	(BN) LIST £ EA
KUBA900E	DFAE011E	211.51
KUBA901E	DFAE021E	241.25
KUBA902E	DFAE031E	278.70
KUBA905E	DFAE022E	385.56
KUBA906E	DFAE032E	437.34
KUBA908E	DFAE023E	524.36
KUBA909E	DFAE033E	687.40

LIGHT COMMERCIAL - JUNIOR DF-7.0MM FIN SPACING-WHITE

CODE	MODEL	KW (1)	KW (2)	AIR THROW M	NO. OF FANS	(BN) LIST £ EA
KUBA911	DFB011E	0.40	0.32	5	1	222.52
KUBA912	DFB021E	0.48	0.38	5	1	247.86
KUBA913	DFB031E	0.61	0.49	5	1	278.70
KUBA915	DFB022E	0.96	0.77	6	2	373.44
KUBA916	DFB032E	1.22	0.97	6	1	414.20
KUBA918	DFB023E	1.44	1.15	9	3	503.43
KUBA919	DFB033E	1.83	1.46	9	3	609.18

WITH ELECTRIC DEFROST

CODE	MODEL	(BN) LIST £ EA
KUBA911E	DFBE011E	247.86
KUBA912E	DFBE021E	269.89
KUBA913E	DFBE031E	296.33
KUBA915E	DFBE022E	388.86
KUBA916E	DFBE032E	462.67
KUBA918E	DFBE023E	527.67
KUBA919E	DFBE033E	686.30



Compact DF

Light commercial, ceiling mounted

Capacities (R404A)

1) TL1 0°C, DT = 8K 2) TL2 -18°C, DT1 = 7K 3) TL3 +10°C, DT1 = 10K

Airthrow measured at airspeed of 0.5m/s.

The Kuba Compact DF is supplied with the following product features:

4.5 mm (DFA) or 7.0mm (DFB) fin spacing

Compact ceiling mounted

Aluminium casing

Hinged double drip tray

Fans wired to terminal box

LIGHT COMMERCIAL - COMPACT DF-4.5MM FIN SPACING-WHITE

CODE	MODEL	CAPACITY		AIR THROW M	NO. OF FANS	(BN) LIST £ EA
		KW (1)	KW (3)			
KUBA924	DFA051D	1.66	2.51	7	1	474.24
KUBA925	DFA061D	2.14	3.27	9	1	523.92
KUBA926	DFA071D	2.53	3.86	9	1	627.80
KUBA930	DFA052D	3.32	4.89	9	2	749.75
KUBA931	DFA062D	4.28	6.58	11	2	882.99
KUBA932	DFA072D	5.06	7.40	11	2	1,055.75
KUBA934	DFA063D	6.42	9.26	12	3	1,327.87
KUBA935	DFA073D	7.59	11.16	12	3	1,508.53
KUBA937	DFA064D	8.56	12.70	16	4	1,665.49
KUBA939	DFA074D	10.12	15.60	16	4	2,067.46

WITH ELECTRIC DEFROST

CODE	MODEL	(BN) LIST £ EA
KUBA924E	DFAE051D	513.76
KUBA925E	DFAE061D	618.77
KUBA926E	DFAE071D	735.08
KUBA930E	DFAE052D	815.24
KUBA931E	DFAE062D	958.65
KUBA932E	DFAE072D	1,207.06
KUBA934E	DFAE063D	1,418.20
KUBA935E	DFAE073D	1,630.48
KUBA937E	DFAE064D	1,955.67
KUBA939E	DFAE074D	2,122.78

EVAPORATORS

Green line cooler - Compact DF

Light commercial, ceiling mounted

LIGHT COMMERCIAL - COMPACT DF-7.0MM FIN SPACING-WHITE

CODE	MODEL	CAPACITY		AIR THROW M	NO. OF FANS	(BN) LIST £ EA
		KW (1)	KW (2)			
KUBA942	DFB051D	1.52	1.21	7	1	474.24
KUBA943	DFB061D	1.81	1.45	9	1	523.92
KUBA944	DFB071D	2.19	1.75	9	1	627.80
KUBA946	DFB052D	3.04	2.43	9	2	749.75
KUBA947	DFB062D	3.62	2.89	11	2	882.99
KUBA948	DFB072D	4.38	3.50	11	2	1,055.75
KUBA950	DFB063D	5.43	4.34	12	3	1,327.87
KUBA951	DFB073D	6.57	5.25	12	3	1,508.53
KUBA953	DFB064D	7.24	5.78	16	4	1,665.49
KUBA954	DFB074D	8.76	7.00	16	4	2,067.46

WITH ELECTRIC DEFROST

CODE	MODEL	(BN) LIST £ EA
KUBA942E	DFBE051D	513.76
KUBA943E	DFBE061D	618.77
KUBA944E	DFBE071D	735.08
KUBA946E	DFBE052D	815.24
KUBA947E	DFBE062D	958.65
KUBA948E	DFBE072D	1,207.06
KUBA950E	DFBE063D	1,418.20
KUBA951E	DFBE073D	1,630.48
KUBA953E	DFBE064D	1,955.67
KUBA954E	DFBE074D	2,122.78



Green line cooler - Comfort DP

Dual discharge cooler

Capacities (R404A) at the highest fan speed:

1) TL1 0°C, DT = 8K 2) TL2 +10°C, DT1 = 10K

Airthrow measured at airspeed of 0.5m/s.

The Kuba Comfort DP is supplied with the following product features:

4.5 mm (DPA) or 7.0mm (DPB) fin spacing

Low profile ceiling mounted

Integrated air baffles ensure low air speeds (up to 0.8 m/s) in the cold room, guiding the air to the ceiling of the cell, thereby reaching far into the room.

DUAL DISCHARGE-COMFORT DP-4.5MM DIN SPACING-WHITE

CODE	MODEL	CAPACITY		AIR THROW M	NO. OF FANS	(BN) LIST £ EA
		(1)	(2)			
KUBA960	DPA031C	3.69	5.41	2 x 11	1	1,023.39
KUBA961	DPA041C	4.26	6.25	2 x 9	1	1,132.45
KUBA964	DPA032C	7.38	10.80	2 x 12	2	1,533.43
KUBA965	DPA042C	8.52	12.50	2 x 10	2	1,639.18
KUBA968	DPA033C	11.10	16.30	2 x 13	3	2,095.24
KUBA969	DPA043C	12.80	18.80	2 x 11	3	2,261.59
KUBA972	DPA034C	14.80	21.70	2 x 14	4	2,725.36
KUBA973	DPA044C	17.00	25.00	2 x 12	4	2,944.58

WITH ELECTRIC DEFROST

CODE	MODEL	(BN) LIST £ EA
KUBA960E	DPAE031C	1,177.61
KUBA961E	DPAE041C	1,267.94
KUBA964E	DPAE032C	1,721.80
KUBA965E	DPAE042C	1,892.55
KUBA968E	DPAE033C	2,347.51
KUBA969E	DPAE043C	2,509.45
KUBA972E	DPAE034C	3,052.53
KUBA973E	DPAE044C	3,264.04

DUAL DISCHARGE-COMFORT DP-7.0MM FINSPACING-WHITE-ELECTRIC DEFROST

CODE	MODEL	CAPACITY		AIR THROW M	NO. OF FANS	(BN) LIST £ EA
		(1)	(2)			
KUBA978E	DPBE031C	2.98	4.37	2 x 11	1	1,255.82
KUBA979E	DPBE041C	3.72	5.46	2 x 9	1	1,405.64
KUBA982E	DPBE032C	5.96	8.72	2 x 12	2	1,828.66
KUBA983E	DPBE042C	7.44	10.90	2 x 10	2	1,894.75
KUBA986E	DPBE033C	8.94	13.10	2 x 13	3	2,480.80
KUBA987E	DPBE043C	11.20	16.40	2 x 11	3	2,747.39
KUBA989E	DPBE034C	11.90	17.50	2 x 14	4	3,080.07
KUBA990E	DPBE044C	14.90	21.80	2 x 12	4	3,452.41



Green line cooler - Gastro FM

Under counter cooler

Air throw figure is for single side air discharge, this is reduced to 3m if double sided air discharge is used.
The gastro FM is the mighty mini for tough circumstances in refrigerated counters & refrigeration units used in food service.

UNDER COUNTER - GASTRO FM - 4.5 MM FIN SPACING - WHITE

CODE	MODEL	CAPACITY KW (1)	AIR THROW METRES	NO. OF FANS	(BN) LIST £ EA
KUBA080	FMA011D	0.14	4	1	202.12
KUBA082	FMA021D	0.18	4	1	205.50
KUBA084	FMA022D	0.26	4	2	266.48
KUBA086	FMA032D	0.29	4	2	312.78
KUBA088	FMA042D	0.33	4	2	370.36



Blue line cooler - DE Professional (DEA and DEB)

Commercial cooler, ceiling mounted

4.5 or 7.00 mm fin spacing
High performance ceiling unit that covers a large scope for commercial applications
Compact ceiling unit for complex refrigeration tasks in small and low spaces.
DE professional is able to maintain all temperature ranges with maximum precision.
The DE professional can cope with challenging environmental conditions

LIGHT COMMERCIAL - MODELS DEA.D CLASSIC

Options include anti-corrosion protection, electric space heaters, glycol coolers

Capacities:

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

SINGLE PHASE MOTORS - WHITE FINISH - 4.5MM FIN SPACING

CODE	MODEL	CAPACITY KW (1)	CAPACITY KW (2)	AIR THROW M	NO. OF FANS	(BN) LIST £ EA
KUBA320	DEA071D	1.90	1.51	9	1	698.94
KUBA324	DEA081D	2.10	1.67	9	1	718.13
KUBA328	DEA091D	2.35	1.87	9	1	768.95
KUBA332	DEA072D	3.80	3.02	11	2	1,091.88
KUBA336	DEA082D	4.20	3.34	11	2	1,123.50
KUBA340	DEA092D	4.70	3.74	11	2	1,340.29
KUBA344	DEA083D	6.30	5.01	12	3	1,803.24
KUBA348	DEA093D	7.05	5.60	12	3	1,873.25
KUBA352	DEA084D	8.40	6.68	16	4	2,084.39
KUBA356	DEA094D	9.40	7.47	16	4	2,362.16

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.

SINGLE PHASE MOTORS - WHITE FINISH - 7.0MM FIN SPACING

KUBA360	DEB071D	1.53	1.22	10	1	669.59
KUBA364	DEB081D	1.80	1.43	10	1	695.55
KUBA368	DEB091D	2.00	1.59	10	1	740.72
KUBA372	DEB072D	3.06	2.43	12	2	1,082.85
KUBA376	DEB082D	3.60	2.86	12	2	1,117.85
KUBA380	DEB092D	4.00	3.18	12	2	1,319.97
KUBA384	DEB083D	5.40	4.29	14	3	1,676.78
KUBA388	DEB093D	6.00	4.77	14	3	1,815.66
KUBA392	DEB084D	7.20	5.72	17	4	1,921.80
KUBA396	DEB094D	8.00	6.36	17	4	2,060.69

WITH ELECTRIC DEFROST

CODE	MODEL	(BN) LIST £ EA
KUBA320E	DEAE071D	794.91
KUBA324E	DEAE081D	834.44
KUBA328E	DEAE091D	886.38
KUBA332E	DEAE072D	1,209.31
KUBA336E	DEAE082D	1,264.64
KUBA340E	DEAE092D	1,478.05
KUBA344E	DEAE083D	1,970.35
KUBA348E	DEAE093D	2,042.62
KUBA352E	DEAE084D	2,279.74
KUBA356E	DEAE094D	2,557.51

WITH ELECTRIC DEFROST

KUBA360E	DEBE071D	768.95
KUBA364E	DEBE081D	822.01
KUBA368E	DEBE091D	852.51
KUBA372E	DEBE072D	1,202.54
KUBA376E	DEBE082D	1,257.86
KUBA380E	DEBE092D	1,462.24
KUBA384E	DEBE083D	1,846.15
KUBA388E	DEBE093D	1,983.90
KUBA392E	DEBE084D	2,117.14
KUBA396E	DEBE094D	2,260.54

EVAPORATORS



Blue line cooler - DZ Production

Commercial cooler

Capacities:

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

Air throw at 0.5 m/s.

The dual discharge cooler Küba DZ production is suitable for large production and food preparation areas such as butchery and dairy applications.

The low profile ceiling design allows for better use of space as well as perfect cooling distribution.

DUAL DISCHARGE, MODELS DZ CLASSIC

Selected models from the range, other models and options POR

THREE-PHASE MOTORS - WHITE FINISH - 7.0MM FIN SPACING

CODE	MODEL	CAPACITY		AIR THROW	NO. OF	(BN) LIST
		KW (1)	KW (2)	METRES	FANS	£ EA
KUBA1322	DZB45-F41	6.00	4.80	2 x 12	1	2,995.25
KUBA1324	DZB50-F61	11.40	9.10	2 x 25	1	2,960.25
KUBA1326	DZB56-F61	15.00	12.00	2 x 17	1	4,497.83
KUBA1332	DZB50-F62	22.80	18.20	2 x 18	2	9,166.76
KUBA1334	DZB56-F62	30.00	24.00	2 x 20	2	7,270.56
KUBA1340	DZB50-F63	34.20	27.30	2 x 21	3	9,009.99
KUBA1342	DZB56-F63	45.00	36.00	2 x 23	3	11,381.73
KUBA1350	DZB56-F64	60.00	48.00	2 x 26	4	14,212.84
KUBA1351	DZB56-F84	70.80	56.60	2 x 26	4	16,139.54

WITH ELECTRIC DEFROST

CODE	MODEL	(BN) LIST
		£ EA
KUBA1322E	DZBE45-F41	3,288.28
KUBA1324E	DZBE50-F61	4,410.81
KUBA1326E	DZBE56-F61	4,971.52
KUBA1332E	DZBE50-F62	6,761.62
KUBA1334E	DZBE56-F62	8,069.22
KUBA1340E	DZBE50-F63	9,757.97
KUBA1342E	DZBE56-F63	12,202.42
KUBA1350E	DZBE56-F64	15,291.31
KUBA1351E	DZBE56-F84	17,389.96



Blue line cooler - SG Commercial

SG Commercial coolers with factory fitted electric defrost as standard.

Capacities:

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

Whether you have extreme storage conditions or need long-term food freshness – the SG commercial is the answer to your requirements and ensures the long term value of your refrigerated product.

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.

SINGLE PHASE - 7.0MM FIN SPACING - WHITE FINISH

CODE	MODEL	CAPACITY		AIR THROW	NO. OF	(BN) LIST
		KW (1)	KW (2)	METRES	FANS	£ EA
KUSG550E	SGBE 23-F21	0.9	0.5	12	1	762.18
KUAS560E	SGBE 23-F31	1.2	0.8	11	1	825.41
KUSG570E	SGBE 30-F21	1.5	1	17	1	905.57
KUSG580E	SGBE 30-F31	1.9	1.3	16	1	1,013.97
KUSG590E	SGBE 35-F21	2.5	1.6	31	1	1,211.57
KUSG600E	SGBE 35-F31	3.4	2.3	30	1	1,373.03
KUSG610E	SGBE 35-F41	4.1	2.8	29	1	1,623.70
KUSG620E	SGBE 35-F61	5.3	3.7	28	1	1,830.34
KUSG630E	SGBE 45-F31	5.6	3.7	42	1	2,062.94
KUSG640E	SGBE 45-F41	6.7	4.6	41	1	2,171.34
KUSG650E	SGBE 45-F51	8.0	5.4	40	1	2,260.54
KUSG660E	SGBE 23-F22	1.8	1.2	17	2	1,251.09
KUSG670E	SGBE 23-F32	2.3	1.6	17	2	1,364.00
KUSG680E	SGBE 30-F22	3.0	1.9	22	2	1,596.60
KUSG690E	SGBE 30-F32	3.9	2.7	22	2	1,839.37
KUSG700E	SGBE 35-F22	4.9	3.3	36	2	2,117.14
KUSG710E	SGBE 35-F32	6.8	4.6	36	2	2,565.41
KUSG720E	SGBE 35-F42	8.3	5.8	35	2	2,852.21
KUSG730E	SGBE 35-F62	10.6	7.6	34	2	3,426.95
KUSG740E	SGBE 45-F32	11.3	7.4	47	5	3,695.68
KUSG750E	SGBE 45-F42	13.5	9.4	47	2	3,920.37
KUSG760E	SGBE 45-F52	16.0	10.8	46	2	4,072.81
KUSG770E	SGBE 23-F23	2.7	1.8	21	3	1,721.94
KUSG780E	SGBE 23-F33	3.5	2.4	20	3	1,839.37

Blue line cooler - SG Commercial

Commercial cooler

SINGLE PHASE - 7.0MM FIN SPACING - WHITE FINISH

CODE	MODEL	CAPACITY		AIR THROW METRES	NO. OF FANS	(BN) LIST £ EA
		KW (1)	KW (2)			
KUSG790E	SGBE 30-F23	4.3	3.0	26	3	2,197.31
KUSG800E	SGBE 30-F33	5.9	4.1	25	3	2,502.17
KUSG810E	SGBE 35-F23	7.7	4.8	40	3	3,049.81
KUSG820E	SGBE 35-F33	10.3	7.0	39	3	3,767.95
KUSG830E	SGBE 35-F43	12.2	8.6	38	3	4,152.98
KUSG840E	SGBE 35-F63	15.1	11.0	37	3	4,664.48
KUSG850E	SGBE 45-F33	17.0	11.2	51	3	5,453.75
KUSG860E	SGBE 45-F43	20.9	13.9	50	3	5,606.19
KUSG870E	SGBE 45-F53	23.2	16.5	49	3	5,965.25
KUSG880E	SGBE 23-F24	3.6	2.4	23	4	2,207.47
KUSG890E	SGBE 23-F34	4.8	3.2	23	4	2,323.77
KUSG900E	SGBE 30-F24	6.0	3.9	28	4	2,825.11
KUSG910E	SGBE 30-F34	8.1	5.3	28	4	3,256.44
KUSG920E	SGBE 35-F24	10.1	6.6	42	4	3,956.51
KUSG930E	SGBE 35-F34	13.3	9.3	42	4	4,439.78
KUSG940E	SGBE 35-F44	16.9	11.4	41	4	5,059.68
KUSG950E	SGBE 35-F64	24.3	17.8	37	4	5,516.98
KUSG960E	SGBE 45-F34	22.4	15.1	53	4	6,386.42
KUSG970E	SGBE 45-F44	27.2	18.8	53	4	7,284.09
KUSG980E	SGBE 45-F54	31.4	22.1	52	4	8,144.49
KUSG990E	SGBE 23-F25	4.5	2.9	25	4	2,699.78
KUSG1000E	SGBE 23-F35	6.0	4.1	24	5	2,817.21
KUSG1010E	SGBE 30-F25	7.4	5.0	30	5	3,543.24
KUSG1020E	SGBE 30-F35	10.0	6.8	29	5	3,938.44
KUSG1030E	SGBE 35-F25	13.0	7.9	44	5	4,951.28
KUSG1040E	SGBE 35-F35	17.7	11.0	43	5	5,785.71
KUSG1050E	SGBE 35-F42	20.8	14.5	42	5	6,144.78
KUSG1060E	SGBE 35-F65	26.6	19.0	41	5	7,400.38
KUSG1070E	SGBE 45-F35	28.7	18.3	55	5	8,485.49
KUSG1080E	SGBE 45-F45	35.1	22.8	54	5	8,889.72



GBS Series

Plate heat exchanger – Ecobraz

Heat Exchangers of the GBS-Series are the solid all-rounders among all brazed plate heat exchangers from Kelvion.

Equipped with the proven technical features like Safety Chamber™, Delta Injection™ and Full Flow System™ the units are ideal for applications of all sizes with max. 200°C / 392°F and up to 40 bar / 580 psi.

CODE	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	

EVAPORATORS



Coil Blocks

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 spacing

CODE	MODEL	OVERALL LENGTH (MM)	(RK) LIST £ EA
COIL260	NT/H 50	500	70.68
COIL270	NT/H 70	700	83.32
COIL280	NT/H 90	900	94.65
COIL200	NT/H 110	1,100	108.07
COIL210	NT/H 130	1,300	118.61
COIL220	NT/H 150	1,500	128.65
COIL230	NT/H 170	1,700	117.08
COIL240	NT/H190	1,900	157.72
COIL250	NT/H 210	2,100	179.16

COIL BLOCK -MODEL MD 250mm x 140mm, 14 x 1/2" tubes, 5mm fin spacing

COIL805	MD-70	700	114.32
COIL800	MD-90	900	172.54
COIL801	MD-110	1,100	211.25
COIL802	MD-130	1,300	240.49
COIL803	MD-150	1,500	266.00
COIL804	MD-170	1,700	298.22

COIL BLOCK-MODEL PB 140mm x 105mm, 12 x 1/2" tubes, 8mm fin spacing

COIL305	PB 50	500	80.82
COIL310	PB 70	700	93.67
COIL315	PB 90	900	104.23
COIL320	PB 110	1,100	110.99
COIL325	PB 130	1,300	121.34
COIL330	PB 150	1,500	128.00
COIL335	PB 170	1,700	136.05
COIL340	PB 190	1,900	149.77
COIL345	PB 210	2,100	166.77

COIL BLOCK-MODEL PB/2 140mm x 105mm, 12 x 1/2" tubes, 5mm fin spacing

COIL355	PB/2/70	700	104.91
COIL360	PB/2/90	900	111.32
COIL365	PB/2/110	1,100	123.75
COIL370	PB/2/130	1,300	132.22
COIL375	PB/2/150	1,500	141.93
COIL380	PB/2/170	1,700	152.69

COIL BLOCK-MODEL PB/3 210mm x 105mm, 16 x 1/2" tubes, 5mm fin spacing

COIL400	PB/3/50	500	103.28
COIL405	PB/3/70	700	137.14
COIL410	PB/3/90	900	156.30
COIL415	PB/3/110	1,100	175.93
COIL420	PB/3/130	1,300	196.39
COIL425	PB/3/150	1,500	213.90
COIL430	PB/3/170	1,700	233.04
COIL435	PB/3/170	1,900	255.01

COIL BLOCK -MODEL PB/4 280mm x 105mm, 24 x 1/2" tubes, 5mm fin spacing

CODE	MODEL	OVERALL LENGTH (MM)	(RK) LIST £ EA
COIL507	PB/4/50	500	161.76
COIL505	PB/4/70	700	215.47
COIL510	PB/4/90	900	237.23
COIL515	PB/4/110	1,100	256.72
COIL520	PB/4/130	1,300	279.06
COIL525	PB/4/150	1,500	305.86
COIL530	PB/4/170	1,700	333.99

COIL BLOCK-MODEL TR/011 110mm x 70mm, 6 x 1/2" tubes, 8mm fin spacing

COIL765	TR 5011	500	53.70
COIL775	TR 7011	700	63.29
COIL785	TR 9011	900	67.52
COIL705	TR 11011	1,100	72.80
COIL715	TR 13011	1,300	81.68
COIL725	TR 15011	1,500	89.00
COIL735	TR 17011	1,700	95.12
COIL745	TR 19011	1,900	108.59

COIL BLOCK-MODEL TR/015 140mm x 70mm, 8 x 1/2" tubes, 8mm fin spacing

COIL770	TR 5015	500	61.67
COIL780	TR 7015	700	72.24
COIL790	TR 9015	900	82.89
COIL710	TR 11015	1,100	89.42
COIL720	TR 13015	1,300	103.91
COIL730	TR 15015	1,500	113.49
COIL740	TR 17015	1,700	121.48
COIL750	TR 19015	1,900	130.92

COIL BLOCK-MODEL 4T 130mm x 100mm, 24 x 3/8" tubes, 4mm fin spacing

COIL900	4T6R	485	95.76
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AIR COOLED CONDENSERS



UNIVAP

CF Range

Remote air condensers - commercial and industrial refrigeration

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.

REMOTE AIR COOLED CONDENSERS -SINGLE PHASE MOTORS - WHITE CASING FINISH.

CODE	MODEL	CAPACITY (KW)		NO. OF FANS	DB(A) @ 10M	(BF) LIST £ EA
		HIGH SPEED	LOW SPEED			
ACC200	CF40 1-2 H	6.1	5.0	1	33	582.94
ACC202	CF40 1-2 V	6.1	5.0	1	33	615.51
ACC205	CF40 1-3 H	9.1	8.0	1	33	618.88
ACC207	CF40 1-3 V	9.1	8.0	1	33	650.33
ACC210	CF40 1-4 H	10.1	9.0	1	33	654.83
ACC212	CF40 1-4 V	10.1	9.0	1	33	686.28
ACC215	CF40 2-2 H	11.1	10.0	2	36	973.81
ACC217	CF40 2-2 V	11.1	10.0	2	36	1,006.39
ACC220	CF40 2-3 H	17.0	15.0	2	36	1,033.34
ACC222	CF40 2-3 V	17.0	15.0	2	36	1,065.92
ACC225	CF40 2-4 H	21.0	17.0	2	36	1,097.37
ACC227	CF40 2-4 V	21.0	17.0	2	36	1,129.94
ACC230	CF40 3-2 H	22.0	18.0	3	37	1,341.10
ACC232	CF40 3-2 V	22.0	18.0	3	37	1,374.80
ACC235	CF40 3-3 H	26.0	23.0	3	37	1,426.46
ACC237	CF40 3-3 V	26.0	23.0	3	37	1,461.28
ACC240	CF40 3-4 H	32.0	27.0	3	37	1,621.90
ACC242	CF40 3-4 V	32.0	27.0	3	37	1,655.60

Fans are 230v/1ph/50-60Hz and can be wired for high (1,325rpm) or low (900rpm) speed.

Capacities are based on R404A, 15K TD to EN327

Condensers are suitable for R410A

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

AIR COOLED CONDENSERS



KÜBA MS

Remote condenser

Fully weatherproof air-cooled condensers

Capacity range is from 5 to 27.6kW

Two fan speed options, giving 18 models in total

Suitable for use in most refrigeration and air conditioning condenser applications

Eurovent certified Unit can be installed either vertically or horizontally

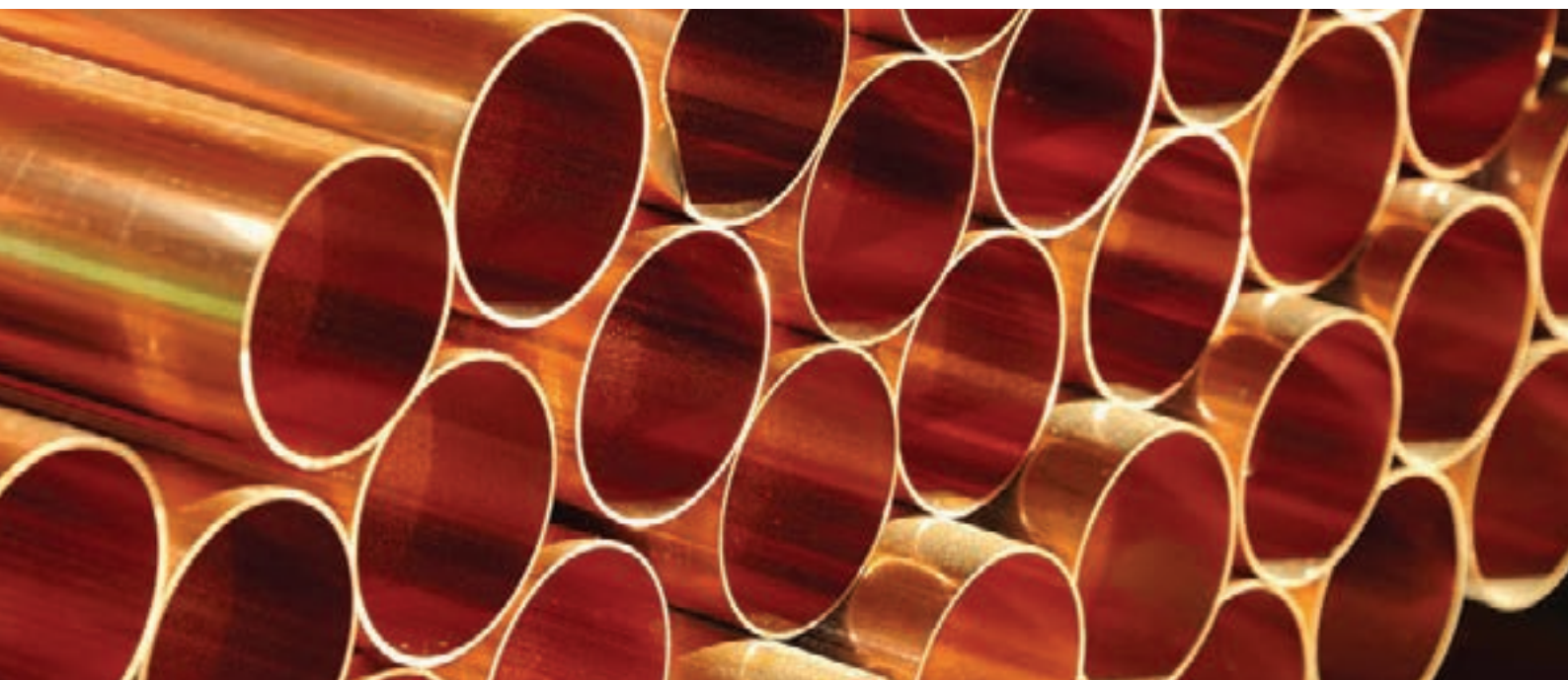
Capacities shown are at 15Ktd to ENV327

4 POLE SINGLE-PHASE MOTORS

CODE	MODEL	CAPACITY (KW)	NO. OF FANS	DB(A) @ 10M	(BF) LIST £ EA
KUBA2000	MSA N03-1x1A	6.6	1	39	573.60
KUBA2005	MSA N03-1x1B	8.2	1	39	682.00
KUBA2010	MSA N03-1x1C	8.7	1	39	783.62
KUBA2015	MSA N03-1x2A	13.2	2	42	868.31
KUBA2020	MSA N03-1xB2	16.4	2	42	1,017.36
KUBA2025	MSA N03-1x2C	17.5	2	42	1,159.63
KUBA2030	MSA N03-1x3A	19.7	3	44	1,113.33
KUBA2035	MSA N03-1x3B	24.6	3	44	1,333.52
KUBA2040	MSA N03-1x3C	26.2	3	44	1,531.11

6 POLE SINGLE-PHASE MOTORS

KUBA2045	MSA L03-1x1A	5.1	1	30	573.60
KUBA2050	MSA L03-1x1B	6.1	1	30	682.00
KUBA2055	MSA L03-1x1C	6.5	1	30	783.62
KUBA2060	MSA L03-1x2A	10.2	2	33	868.31
KUBA2065	MSA L03-1xB2	12.2	2	33	1,017.36
KUBA2070	MSA L03-1x2C	12.9	2	33	1,159.63
KUBA2075	MSA L03-1x3A	15.3	3	35	1,113.33
KUBA2080	MSA L03-1x3B	18.3	3	35	1,333.52
KUBA2085	MSA L03-1x3C	19.3	3	35	1,531.11



LINE COMPONENTS

DRIERS

We also sell copper tube, insulation and refrigerant. See supplementary price list for more details



Molecular sieve drier
Spun copper drier

CODE	SIZE	CONNECTION (INLET x OUTLET)	(LA) £ LIST EA
GFD201	5 GRAM (XH7)	3/8" x 0.120"	1.38
GFD205	10 GRAM (XH7)	1/4" x 0.100"	1.71
GFD210	15 GRAM (XH7)	1/4" x 0.100"	2.00
GFD213	15 GRAM (XH7)	3/16" x 0.100"	2.00
GFD215	20 GRAM (XH7)	1/4" x 0.100"	3.03
GFD218	20 GRAM (XH7)	3/8" x 0.120"	3.30
GFD200	30 GRAM (XH7)	1/4" x 0.100"	3.63



DTG series
Liquid line drier

The filter driers of series DTG are used in refrigeration system with unidirectional flow to absorb moisture and acid in the system and to filter out the impurities.

FLARE	CODE ODS	SIZE	CONNECTION	MODEL NO. FLARE	MODEL NO. ODS	(CA) £ LIST EA
SANH050	SANH085	32	1/4"	DTG-B03024-901	DTG-B03020-901	5.15
SANH052	SANH087	52	1/4"	DTG-B05024-901	DTG-B05020-901	6.52
SANH054	SANH089	53	3/8"	DTG-B05034-901	DTG-B05030-901	6.65
SANH056	SANH091	82	1/4"	DTG-B08024-901	DTG-B08020-901	7.74
SANH058	SANH093	83	3/8"	DTG-B08034-901	DTG-B08030-901	7.74
SANH060	SANH095	84	1/2"	DTG-B08044-901	DTG-B08040-901	7.77
SANH062	SANH097	163	3/8"	DTG-B16034-901	DTG-B16030-901	8.97
SANH064	SANH099	164	1/2"	DTG-B16044-901	DTG-B16040-901	9.35
SANH066	SANH101	165	5/8"	DTG-B16054-901	DTG-B16050-901	9.60
SANH068	SANH103	303	3/8"	DTG-B30034-901	DTG-B30030-901	15.56
SANH070	SANH105	304	1/2"	DTG-B30044-901	DTG-B30040-901	15.56
SANH072	SANH107	305	5/8"	DTG-B30054-901	DTG-B30050-901	15.56

Solid core.

Suitable for HFC and HCFC refrigerants including R410a.



Catch all Liquid line drier

The Liquid Line Sealed Model Filter-driers - Sporlan Catch-All® Series provide unparalleled control of the most harmful contaminants in HVAC&R systems. Moisture, acids, and solid debris are effectively captured to ensure the long life, efficiency, and capacity of today's high performance air-conditioning and refrigeration systems.

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	8.29
SPOR106	C-032F	1/4"	1.3	1.3	1.0	1.4	8.37
SPOR107	C-052	1/4"	1.9	1.9	1.4	2.0	10.82
SPOR110	C-053	3/8"	3.8	3.8	2.7	4.0	10.82
SPOR113	C-082	1/4"	1.9	1.9	1.4	2.0	12.67
SPOR116	C-083	3/8"	4.2	4.2	3.0	4.4	12.67
SPOR119	C-084	1/2"	7.9	8.0	5.9	8.5	13.05
SPOR125	C-163	3/8"	4.2	4.2	3.0	4.4	16.26
SPOR128	C-164	1/2"	9.3	9.3	6.8	9.8	17.59
SPOR131	C-165	5/8"	12.6	12.7	9.2	13.4	17.89
SPOR134	C-303	3/8"	4.2	4.2	3.0	4.4	32.27
SPOR137	C-304	1/2"	9.3	9.3	6.8	9.8	32.27
SPOR140	C-305	5/8"	13.6	13.7	9.9	14.5	32.44
SPOR153	C-414	1/2"	10.5	10.5	7.6	11.1	48.89
SPOR156	C-415	5/8"	14.5	14.6	10.6	15.4	49.73

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

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

SPOR105	C-032S	1/4"	1.3	1.3	1.0	1.4	8.29
SPOR107	C-052S	1/4"	1.9	1.9	1.4	2.0	10.82
SPOR111	C-053S	3/8"	4.3	4.3	3.1	4.5	10.82
SPOR114	C-082S	1/4"	1.9	1.9	1.4	2.0	12.67
SPOR117	C-083S	3/8"	4.7	4.7	3.4	5.0	12.67
SPOR120	C-084S	1/2"	8.8	8.8	6.4	9.4	13.05
SPOR126	C-163S	3/8"	4.7	4.7	3.4	5.0	16.26
SPOR129	C-164S	1/2"	10.1	10.1	7.3	10.7	17.59
SPOR132	C-165S	5/8"	14.5	14.6	10.6	15.5	17.89
SPOR135	C-303S	3/8"	4.7	4.7	3.4	5.0	32.27
SPOR138	C-304S	1/2"	10.1	10.1	7.3	10.7	32.27
SPOR141	C-305S	5/8"	15.2	14.8	9.2	15.3	32.44
SPOR143	C-306S	3/4"	17.8	17.4	10.8	18.0	33.13
SPOR145	C-307S	7/8"	19.5	19.1	11.9	19.7	33.13
SPOR147	C-309S	1.1/8"	22.3	21.8	13.6	22.6	37.45
SPOR154	C-414S	1/2"	11.4	11.4	8.3	12.1	48.89
SPOR159	C-609S	1.1/8"	30.4	30.7	22.3	32.4	74.93

DRIERS



Parker - Catch all Heat pump drier

These filter-driers are easy to install - even on compact units - because they are designed for installation in the reversing liquid line. The smaller HPC-100 Series, using the standard Catch-All core, is designed specifically for new installations and for use on OEM equipment.

REVERSIBLE HEAT PUMP DRIER-NEW INSTALLATIONS

CODE	MODEL	CONNECTION SIZE	FLOW CAPACITY TONS*		INSTALL LENGTH (MM)	SHELL DIA (MM)	(RE) £ LIST EA
			R407C	R410A			
SPOR220	HPC-103	3/8" FL	3.1	3.3	171	76	30.76
SPOR222	HPC-103S	3/8" ODS	3.1	3.3	149	76	30.76
SPOR224	HPC-104	1/2" FL	4.1	4.4	176	76	31.20
SPOR225	HPC-104S	1/2" ODS	4.1	4.4	152	76	31.20
SPOR232	HPC-105	5/8" FL	5.1	5.4	184	76	32.60
SPOR233	HPC-105S	5/8" ODS	5.1	5.4	160	76	32.60

REVERSIBLE HEAT PUMP DRIER-NEW INSTALLATIONS

SPOR226	HPC-163HH	3/8" FL	3.4	3.5	198	76	52.15
SPOR228	HPC-164HH	1/2" FL	3.6	3.8	202	76	52.15
SPOR230	HPC-165HH	5/8" FL	4.5	4.6	210	76	53.20



HTG series Drier shell suction and liquid line

The filter driers with replaceable core (HTG series) are used in liquid line and suction line of refrigerating, freezing and air conditioning system. Use Sanhua SH48 drier cores.

CODE	MODEL	CONNECTION SIZE	FLOW CAPACITY KW @ 1PSI (LIQUID LINE)				NO. OF CORES	(AA) £ LIST EA
			R134A	R407C	R404A/507	R410A		
SANH540	HTG-A48050-901	5/8"	65.5	45.9	67.6	67.6	1	69.98
SANH542	HTG-A48070-901	7/8"	104.7	73.5	108.2	108.2	1	69.98
SANH544	HTG-A48090-901	1.1/8"	150.5	105.7	155.4	155.4	1	69.98
SANH546	HTG-A48110-901	1.3/8"	202.7	142.5	209.3	209.3	1	69.98
SANH548	HTG-A48130-901	1.5/8"	248.9	174.4	256.6	256.6	1	69.98
SANH550	HTG-A48170-901	2.1/8"	353.5	248.2	364.7	364.7	1	74.34
SANH552	HTG-A48210-901	2.5/8"	392.7	276.2	405.7	405.7	1	83.10
SANH554	HTG-A96050-901	5/8"	65.5	45.9	67.6	67.6	2	85.94
SANH556	HTG-A96070-901	7/8"	104.7	73.5	108.2	108.2	2	85.94
SANH558	HTG-A96090-901	1.1/8"	150.5	105.7	155.4	155.4	2	85.94
SANH560	HTG-A96110-901	1.3/8"	202.7	142.5	209.3	209.3	2	85.94
SANH562	HTG-A96130-901	1.5/8"	248.9	174.7	256.6	256.6	2	85.94
SANH564	HTG-A96170-190	2.1/8"	353.5	248.2	364.7	364.7	2	91.31
SANH566	HTG-A96210-910	2.5/8"	392.7	276.2	405.7	405.7	2	102.05
SANH568	HTG-B44050-901	5/8"	65.5	45.9	67.6	67.6	3	102.05
SANH570	HTG-B44070-901	7/8"	104.7	73.5	108.2	108.2	3	102.05
SANH572	HTG-B44090-901	1.1/8"	150.5	105.7	155.4	155.4	3	102.05
SANH574	HTG-B44110-901	1.3/8"	202.7	142.5	209.3	209.3	3	102.05
SANH576	HTG-B44130-901	1.5/8"	248.9	174.4	256.6	256.6	3	102.05
SANH578	HTB-B44170-901	2.1/8"	353.5	248.2	364.7	364.7	3	102.05
SANH580	HTG-B44210-901	2.5/8"	392.7	276.2	405.7	405.7	3	109.33
SANH582	HTG-B92050-901	5/8"	65.6	45.9	67.6	67.6	4	120.97
SANH584	HTG-B92070-901	7/8"	104.7	73.5	108.2	108.2	4	120.97
SANH586	HTG-B92090-901	1.1/8"	150.5	105.7	155.4	155.4	4	120.97
SANH588	HTG-B92110-901	1.3/8"	202.7	142.5	209.3	209.3	4	120.97
SANH590	HTG-B92130-901	1.5/8"	248.9	174.4	256.6	256.6	4	120.97
SANH592	HTG-B92170-901	2.1/8"	353.5	248.2	364.7	364.7	4	120.97
SANH594	HTG-B92210-901	2.5/8"	392.7	276.2	405.7	405.7	4	120.97



Sanhua Filter drier core

CODE	MODEL	TYPE	APPLICATION	(AA) £ LIST EA
SANH596	SH48-A30	ACID REMOVAL	SUCT	9.99
SANH597	SH48-A80	STANDARD	LIQ	10.92
SANH598	SH48-A00	HIGH CAPACITY	LIQ	11.57



Catch all Burnout drier

Select an HH Style Catch-All Filter-Drier if wax problems occur on low temperature systems. In addition to their wax removal ability, these filter-driers will remove all of the other harmful contaminants that the standard filter-driers remove.

CATCH ALL BURNOUT DRIERS, SOLID CORE, CHARCOAL STYLE

CODE	MODEL	CONNECTION SIZE	INSTALL LENGTH (MM)	SHELL DIA (MM)	(RE) £ LIST EA
SPOR070	C-052HH	1/4" MALE FLARE	132	62	15.95
SPOR076	C-083HH	3/8" MALE FLARE	154	67	20.16
SPOR082	C-163HH	3/8" MALE FLARE	171	76	25.35
SPOR085	C-164HH	1/2" MALE FLARE	176	76	27.27
SPOR088	C-165HH	5/8" MALE FLARE	184	76	27.79
SPOR091	C-303HH	3/8" MALE FLARE	246	76	49.11
SPOR094	C-304HH	1/2" MALE FLARE	251	76	49.11
SPOR097	C-305HH	5/8" MALE FLARE	259	76	49.11
SPOR098	C-305-S-HH	5/8" ODF SOLDER	235	76	49.11
SPOR100	C-417-S-HH	7/8" ODF SOLDER	249	76	68.25
SPOR102	C-609-S-HH	1.1/8" ODF SOLDER	406	76	104.54



SLD series Burnout suction line drier

For HCFC, HFC and CFC refrigerants.
Solid core high acid pick-up with inlet and outlet access fittings.

CODE	MODEL	CONNECTION SIZE	INSTALL LENGTH (MM)	SHELL DIA (MM)	(CA) £ LIST EA
FPAR101	SLD8-3V	3/8" FLARE	5.13	3	41.07
FPAR100	SLD8-3VS	3/8" ODS	3.13	3	42.00
FPAR103	SLD8-4V	1/2" FLARE	5.38	3	41.07
FPAR102	SLD8-4SV	1/2" ODS	3.13	3	41.07
FPAR111	SLD13-5V	5/8" FLARE	5.82	4	55.40
FPAR104	SLD13-5SV	5/8" ODS	3.45	4	55.40
FPAR105	SLD13-6SV	3/4" ODS	3.45	4	51.80
FPAR110	SLD13-7SV	7/8" ODS	3.47	4	51.80
FPAR106	SLD27-7SV	7/8" ODS	5.47	4	55.40
FPAR107	SLD27-9SV	1.1/8" ODS	5.36	4	65.30
FPAR108	SLD54-11SV	1.3/8" ODS	9.17	4	101.18
FPAR109	SLD54-13SV	1.5/8" ODS	9.17	4	111.97

SIGHTGLASSES



SYJ Series Liquid line sightglass

Sight glasses are installed after the filter drier in liquid line of refrigerating systems, in order to observe property changes of the refrigerant (liquid/vapour) and to indicate the moisture level by colours.

CODE	MODEL	CONNECTION	(AA) £ LIST EA
SANH130	SYJ-A02040-000	1/4" FL	9.18
SANH132	SYJ-A02060-000	3/8" FL	9.81
SANH134	SYJ-A02080-000	1/2" FL	14.89
SANH136	SYJ-A02100-000	5/8" FL	15.77
SANH140	SYJ-A00040-000	1/4" EXT SOLDER	9.18
SANH142	SYJ-A00060-000	3/8" EXT SOLDER	9.81
SANH144	SYJ-A00080-000	1/2" EXT SOLDER	14.89
SANH146	SYJ-A00100-000	5/8" EXT SOLDER	15.77
SANH148	SYJ-A00120-000	3/4" EXT SOLDER	20.10
SANH150	SYJ-A00140-000	7/8" EXT SOLDER	21.49
SANH160	SYJ-A02040-100	1/4" MxF.FL	9.22
SANH162	SYJ-A02060-100	3/8" MxF.FL	10.02
SANH164	SYJ-A02080-100	1/2" MxF.FL	13.08
SANH166	SYJ-A02100-100	5/8" MxF.FL	13.78



See All Liquid line sightglass

Parker Sporlan SEE-ALL moisture and liquid indicator combines two functions of moisture and liquid indicator into a single economical product.

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

CODE	PART NO.	CONNECTION	(RE) £ LIST EA
SPOR002	SA-12	1/4" MALE FLARE	14.91
SPOR003	SA-13	3/8" MALE FLARE	15.50
SPOR004	SA-14	1/2" MALE FLARE	19.37
SPOR005	SA-15	5/8" MALE FLARE	20.17
SPOR007	SA-12FM	1/4" MALE x FEMALE FLARE	15.35
SPOR008	SA-13FM	3/8" MALE x FEMALE FLARE	15.37
SPOR009	SA-14FM	1/2" MALE x FEMALE FLARE	20.02
SPOR012	SA-12S	1/4" ODF SOLDER	15.35
SPOR013	SA-13S	3/8" ODF SOLDER	15.37
SPOR014	SA-14S	1/2" ODF SOLDER	20.30
SPOR015	SA-15S	5/8" ODF SOLDER	20.63
SPOR016	SA-17S	7/8" ODF SOLDER	30.07
SPOR017	SA-19S	1.1/8" ODF SOLDER	33.24
SPOR018	SA-211	1.3/8" DOF SOLDER	65.73
SPOR019	SA-213	1.5/8" ODF SOLDER	75.35
SPOR020	SA-217	2.1/8" ODF SOLDER	95.50

REPLACEMENT INDICATORS

CODE	PART NO.	SUITABILITY	(RE) £ LIST EA
SPOR022	K-SA-4	SA-12 TO SA-19	3.69
SPOR024	AC-20	SA-211, 213, 217	22.04



KSG Series Liquid line sightglass

Parker World Series™ KSG moisture and liquid line sight glasses allow a visual indication of colour, flow and refrigerant quality in a refrigeration or air-conditioning systems.

KSG, FOR CFC, HCFC AND HFC REFRIGERANTS INC R410A

CODE	MODEL	CONNECTION SIZE	(RE) £ LIST EA
DPAR245	KSG-2S	1/4" EXT SOLDER	14.07
DPAR246	KSG-3S	3/8" EXT SOLDER	14.07
DPAR248	KSG-4S	1/2" EXT SOLDER	16.45
DPAR249	KSG-5S	5/8" EXT SOLDER	16.45
DPAR251	KSG-7S	7/8" EXT SOLDER	23.94
DPAR252	KSG-9S	1.1/8" EXT SOLDER	24.85
DPAR230	KSG-2	1/4" FL	14.07
DPAR231	KSG-3	3/8" FL	14.07
DPAR233	KSG-4	1/2" FL	16.45
DPAR234	KSG-5	5/8" FL	16.45
DPAR192	KSG-2MF	1/4" FL x FEM.FL	14.07
DPAR193	KSG-3MF	3/8" FL x FEM.FL	14.07
DPAR194	KSG-4MF	1/2" FL x FEM.FL	16.45
DPAR196	KSG-5MF	5/8" FL x FEM.FL	16.45



Stop valves With access fittings

All Brass body and stem.

3/8" to 5/8" ODF sweat extended copper connections.

Rugged brass construction provides universal replacement for other valves.

CODE	PART NO.	CONNECTION	(AA) £ LIST EA
APAR172	QL-170-6-6	3/8" ODS EXT	13.82
APAR173	QL-170-8-8	1/2" ODS EXT	21.18
APAR174	QL-170-10-10	5/8" EXT ODS	22.21



SBV Series Ball stop valve

SBV valves are typically used in commercial refrigeration and air conditioning applications in order to open and shut off suction or liquid flow by operating the valve stem. Safe working pressure 45 Bar temperature range -40 to +120°C Bi-directional. UL/CSA and PED certified.

CODE	PART NO.	CONNECTION	KV M3/HR	(AA) £ LIST EA
SANH500	SBV(M)-A2YHSY-1-S	1/4"	1.9	11.33
SANH502	SBV(M)-A3YHSY-2-S	3/8"	5.5	11.33
SANH504	SBV(M)-A4YHSY-1-S	1/2"	10.2	11.74
SANH506	SBV(M)-A5YHSY-1-S	5/8"	13.8	11.79
SANH508	SBV(M)-A6YHSY-1-S	3/4"	19.5	14.48
SANH510	SBV(M)-A7YHSY-1-S	7/8"	28.0	15.65
SANH512	SBV(M)-A9YHSY-1-S	1.1/8"	51.5	22.02
SANH514	SBV(M)-A11YHSY-1-S	1.3/8"	80.0	42.28
SANH516	SBV(M)-A13YHSY-2-S	1.5/8"	119.8	51.57
SANH518	SBV(M)-A17YHSY-1-S	2.1/8"	225.0	87.60
SANH520	SBV(M)-A21YHSY-2-S	2.5/8"	305.0	128.31
SANH522	SBV(M)-A25YSHY-2-S	3.1/8"	635.0	220.70
SANH524	SBV(M)-A29YHSY-1-S	3.5/8"	805.0	345.57
SANH526	SBV(M)-A33YHSY-2-S	4.1/8"	950.0	537.58

VALVES



TF VABS series

Ball stop valve

The TF-VABS ball valves have been exclusively designed and manufactured for refrigerating systems operating with all refrigerant fluids (except NH₃). Safe working pressure 45 Bar temperature range -40 to +150°C Bi-directional. Also available with Schrader valve.

CODE	PART NO.	CONNECTION	KV M3/HR	(AA) £ LIST EA
TEDF060	TF-VABS-1/4*	1/4"	8	9.20
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

*TEDF060 model includes schrader valve.



YCV Series

Check valve

Piston type check valves are designed for installation in commercial refrigerating systems and in residential or industrial air conditioning plants. They are used to control the unidirectional flow of refrigerant so as to prevent backflow. 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	9.95
SANH202	YCVS8-33GSHC-1	3/8" EXT SOLDER	11.32
SANH204	YCVS10-44GSHC-1	1/2" EXT SOLDER	14.71
SANH206	YCVS13-55GSHC-1	5/8" EXT SOLDER	22.82
SANH208	YCVS17-66GSHC-1	3/4" EXT SOLDER	39.80
SANH210	YCVS17-77GSHC-1	7/8" EXT SOLDER	39.80
SANH222	YCVS20-77GSHC-1	7/8" ANGLE SOLDER	54.74
SANH224	YCVS26-99GSHC-1	1.1/8" ANGLE SOLDER	148.23
SANH226	YCVS31-BBGSHC-1	1.3/8" ANGLE SOLDER	166.97
SANH228	YCVS31-DDGSHC-1	1.5/8" ANGLE SOLDER	166.97



Pressure relief valve

Streamline's pressure relief valves are designed and engineered to provide high-volume discharge primarily for use on liquid receiver applications above the liquid refrigerant level. Compatible with all CFC, HCFC and HFC refrigerants and oils. Operating temperature ranges from -40° C to 150° C

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

COPPER FITTINGS



Couplings Copper fittings

The most complete range of HVACR products in sizes from 1/4" OD to 4.1/8" OD
State of the art manufacturing process provides consistent wall thickness.
Meets ASME B16.22 standard.
Approved up to 700psig (selected diameters)
Constructed of high grade copper or bronze materials.

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 reduced Solder to Solder. Style: WC400R

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

COPPER FITTINGS



Unions

Solder to Solder. Style: WC407

CODE	PART NO.	SIZE	BOX	(DA) £ LIST EA
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

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



Adapter - Female
Solder to MPT

CODE	PART NO.	SIZE	BOX	(DA) £ LIST EA
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



Adapter - Male
Solder to FPT

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



90° Elbow - Short radius
Solder to solder
Low pressure drop design.

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

COPPER FITTINGS



90° Elbow - Long radius
Solder to solder

CODE	PART NO.	SIZE	BOX	(DA) £ LIST EA
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



90° Elbow - Short radius
Fitting to solder

CODE	PART NO.	SIZE	BOX	(DA) £ LIST EA
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



90° Elbow - Long radius
Fitting to solder

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



45° Elbow - Long radius
Solder to solder

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

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

COPPER FITTINGS



Reducing tees
Solder to solder

CODE	PART NO.	SIZE	BOX	(DA) £ LIST EA
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

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

COPPER/FLARE FITTINGS



Return bends
Solder to solder

CODE	PART NO.	SIZE	BOX	(DA) £ LIST EA
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



P Type - Pressure
Solder to solder

CODE	PART NO.	SIZE	BOX	(DA) £ LIST EA
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



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 FITTINGS



Swivel connectors
Flare to solder

CODE	PART NO.	SIZE	(EA) £ LIST EA
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.

FLARE FITTINGS



Female connectors
Flare x FPT



Reducers
Female flare to flare

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.



Connectors
Female flare to female flare

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



Connectors - Swivel
Female flare to female flare

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



Connectors - Female
Female flare to solder

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



Elbows

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

FLARE FITTINGS



Tees

CODE	PART NO.	SIZE	(EA) £ LIST EA
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. Last size is the branch.



Flare plugs

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



Seal caps - female flare

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



Pipe plugs MPT

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 | LINE COMPONENTS



Various access fittings

CODE	PART NO.	SIZE	(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



Various access tees

CODE	PART NO.	RUN	CONNECTIONS RUN	BRANCH	(EA) £ LIST EA
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

LINE COMPONENTS



LETT

Vibration eliminators

Vibration eliminators are used to avoid the vibrations induced by the compressor. They also help to reduce noise. Furthermore, its unique speciality allows vertical installation too. The possibility of water condensation in the lower side has been eliminated, therefore, no problem even at temperatures below 0°C (32°F).

CODE	SWP (BAR)	CONNECTION	(BA) £ LIST EA
VIBE102	35	1/4" ODS	13.75
VIBE103	35	3/8" ODS	13.75
VIBE104	35	1/2" ODS	14.50
VIBE105	35	5/8" ODS	14.50
VIBE106	35	3/4" ODS	16.75
VIBE108	35	7/8" ODS	15.75
VIBE110	35	1.1/8" ODS	23.60
VIBE111	35	1.3/8" ODS	24.85

Stainless steel braided with copper ODS tube ends.
TIG welded construction.



FRIGOMEC

Suction line accumulators

Suction accumulators are built with two deep-drawn caps and copper connections.

CODE	PART NO.	CONNECTION (ODS)	CAPACITY (LITRES)	(BA) £ LIST EA
LRRRA175	1010437P	5/8"	1.6	30.45
LRRRA185	1010429P	3/4"	2.3	35.70
LRRRA190	1010668P	7/8"	2.3	38.85
LRRRA195	1010442P	7/8"	3.4	47.25
LRRRA200	1010049P	1.1/8"	5.6	68.38
LRRRA205	1010052P	1.3/8"	7.8	90.84
LRRRA215	1010055P	1.5/8"	11.0	106.96
LRRRA220	1010060P	2.1/8"	24.5	172.31



FRIGOMEC

Oil separators

Up to 90% separation with a working temperature range of -10°C to +120°C.
Maximum working pressure 33bar (45bar on request).
PED category I and II.

CODE	MODEL	CONNECTION (ODS)	VOLUME (LITRES)	CPACITY (KW)			(BA) £ LIST EA
				R404A	R407A	R134A	
0SEP101	103.0151.A	1/2"	1.5	9.0	10.0	8.0	65.89
0SEP102	103.0117.A	5/8"	1.8	26.0	29.0	22.0	70.88
0SEP103	103.0153.A	7/8"	1.8	34.0	38.0	29.0	74.55
0SEP104	103.0154.A	1.1/8"	2.2	41.0	45.0	35.0	79.80
0SEP105	103.0121.A	1.3/8"	2.2	49.0	54.0	42.0	82.43

LINE COMPONENTS | ANCILLARIES ITEMS



FRIGOMEC

Liquid receivers

A range of vertical or horizontal receivers rated at 33bar (45bar on request).
Fitted with a valve on the refrigerant outlet and supplied with a fusible plug (not fitted).
Models with rotalock connections are not supplied with valves or a fusible plug.

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



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



Service driers

CODE	MODEL	TYPE	CONNECTIONS		(CA) £ LIST EA
			INLET	OUTLET	
EPAR250	MMS-80	10 GRAM	1/4" ODS	1/4" ODS	4.78
EPAR252	MMS-200	20 GRAM	1/4"-3/8" ODS	1/4"-3/8" ODS	11.82
EPAR253	712	10 GRAM	1/4" ODS	0.092" ODS	6.71
EPAR254	319	30 GRAM	5/16" ODS	0.130" ODS	12.24
EPAR255	619	10 GRAM	1/4" ODS	0.092" ODS	9.50
EPAR256	620	20 GRAM	1/4"-5/16" ODS	0.130" ODS	12.24



Fusible plugs

CODE	MODEL	TYPE	(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

LINE COMPONENTS



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	49.04
LRRH105	HX3/4	5/8" x 3/8"	0.56	50.14
LRRH110	HX1/2	5/8" x 3/8"	0.75	52.40
LRRH115	HX1.1/2	7/8" x 3/8"	1.12	65.69
LRRH120	HX2	1.1/8" x 3/8"	1.50	82.43
LRRH125	HX3	1.1/8" x 1/2"	2.24	83.58
LRRH130	HX5	1.3/8" x 5/8"	3.73	149.26
LRRH135	HX7.1/2	1.5/8" x 5/8"	5.60	152.62
LRRH140	HX10	2.1/8" x 7/8"	7.46	278.51
LRRH145	HX15	2.1/8" x 7/8"	11.19	525.79
LRRH150	HX20	2.1/8" x 1.1/8"	14.92	535.82



Wall bracket suitable for packaged units

Scratch resistant, powder coated brackets (RAL7032).

CODE	PART NO.	UPRIGHT	SUPPORT ARM	MAX. LOAD (KG)	(ZL) £ LIST EA
BRAK082	CBR1-XXL	550mm	1000mm	250	79.90

Mounting nuts

Slide into above wall brackets.

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

Antivibration mounts

For condensing units.

CODE	PART NO.	TYPE	LOADING	(HA) £ LIST EA
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

Threaded rod and set screws

Other nuts/washers available.

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



VALVES

VALVES

Regulating valves



CRO(T) Series

Crankcase pressure regulator

The Sporlan Type CRO(T) crankcase pressure regulating valves have a brass body, extended copper connections, and inlet strainer. These valves are designed to prevent overloading of the compressor motor by limiting the crankcase pressure after defrost or during a pulldown cycle. When properly installed the valve will throttle the vapour flow from the evaporator back to the compressor suction.

CODE	VALVE TYPE	RANGE (PSIG)	CONNECTION SIZE	(RE) £ LIST EA
SPOR620	CROT-6	0/60	5/8" FL	97.02
SPOR622	CROT-6	0/60	5/8" ODF	98.11
SPOR624	CROT-6	0/60	7/8" ODF	98.11
SPOR626	CROT-6	0/60	1.1/8" ODF	106.10
SPOR628	CROT-6	30/110	5/8" FL	99.97
SPOR630	CROT-6	30/110	5/8" ODF	113.74
SPOR632	CROT-6	30/110	7/8" ODF	101.47
SPOR634	CROT-6	30/110	1.1/8" ODF	102.41
SPOR636	CROT-10	0/60	7/8" ODF	138.50
SPOR638	CROT-10	0/60	1.1/8" ODF	138.5
SPOR640	CROT-10	0/60	1.3/8" ODF	145.89
SPOR642	CROT-10	30/110	7/8" ODF	140.99
SPOR644	CROT-10	30/110	1.1/8" ODF	141.35
SPOR646	CROT-10	30/110	1.3/8" ODF	148.89



ORI(T) Series

Evaporator pressure control

The Sporlan Type ORI(T) evaporator regulating valves have a brass body, extended copper connections, and inlet strainer. The primary function of these valves, referred to as EPR valves, is to prevent the evaporator pressure from falling below a predetermined value or setting.

Head pressure control

The Sporlan ORI head pressure control valve is designed for installation in the liquid outlet of the condenser and before the liquid receiver. This valve responds to inlet pressure and maintains a constant head pressure during low ambient conditions.

EVAPORATOR PRESSURE REGULATORS

SPOR680	ORIT-6	0/50	5/8" ODF	95.99
SPOR681	ORIT-6	0/50	7/8" ODF	95.99
SPOR682	ORIT-6	30/110	5/8" ODF	95.99
SPOR683	ORIT-6	30/110	7/8" ODF	95.99
SPOR684	ORIT-10	0/50	7/8" ODF	155.99
SPOR685	ORIT-10	0/50	1.1/8" ODF	155.99
SPOR686	ORIT-10	0/50	1.3/8" ODF	161.98
SPOR687	ORIT-10	30/110	1.3/8" ODF	161.98

HEAD PRESSURE CONTROL VALVES

SPOR691	ORI-6-65/225	65/225	5/8" ODF	104.80
SPOR692	ORI-6-65/225	65/225	7/8" ODF	110.08
SPOR693	ORI-6-65/225	65/225	1.1/8" ODF	110.08
SPOR695	ORI-10-65/225	65/225	1.1/8" ODF	170.10
SPOR696	ORI-10-65/225	65/225	1.3/8" ODF	170.10



ORD Series

Head pressure differential valve

The ORD valve is a pressure differential valve that responds to changes in the pressure difference across the valve.

CODE	VALVE TYPE	OPERATION	CONNECTION SIZE	(RE) £ LIST EA
SPOR677	ORD-4-20	BYPASS	5/8" ODF	45.79



C-EC Series

Thermostatic expansion valve

The Parker C Series balance port thermostatic expansion valves have a brass bar stock body with flare connections, adjustable superheat, long lasting replaceable power element and inlet strainer. 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		65.05
IPAR823	CE-C-JW	R134a	1.1/2-3	EXTERNAL	3/8" x 1/2" FL		66.94
IPAR850	C-A-SX35	R404A	1/4-1	INTERNAL	3/8" x 1/2" FL	35	63.22
IPRA851	C-A-SW	R404A	1/4-1	INTERNAL	3/8" x 1/2" FL		61.34
IPAR855	CE-A-SX35	R404A	1/4-1	EXTERNAL	3/8" x 1/2" FL	35	66.94
IPAR856	CE-A-SW	R404A	1/4-1	EXTERNAL	3/8" x 1/2" FL		65.05
IPAR862	CE-B-SW	R404A	1-2	EXTERNAL	3/8" x 1/2" FL		66.94
IPAR860	CE-C-SX35	R404A	1.1/2-4	EXTERNAL	3/8" x 1/2" FL	35	68.77
IPAR861	CE-C-SW	R404A	1.1/2-4	EXTERNAL	3/8" x 1/2" FL		66.94
IPAR620	C-A-VW	R407C	1/2-1.1/2	INTERNAL	3/8" x 1/2" FL		61.34
IPAR624	C-C-VW	R407C	3.1/2-5	INTERNAL	3/8" x 1/2" FL		63.22
IPAR630	CE-A-VW	R407C	1/2-1.1/2	EXTERNAL	3/8" x 1/2" FL		65.05
IPAR634	CE-C-VW	R407C	3.1/2-5	EXTERNAL	3/8" x 1/2" FL		66.94
IPAR635	CE-C-VX100	R407C	3.1/2-5	EXTERNAL	3/8" x 1/2" FL	100	68.77



A Series TEV

Constant pressure expansion valve

One valve can be employed for all refrigerants. It has an adjustment range of 5"HG to 90 psig. Maintains constant evaporator pressure under all load conditions. Automatically protects against motor overloads during system start-up.

CODE	MODEL	CAPACITY (NOMINAL TONS)	CONNECTIONS	(AA) £ LIST EA
IPAR050	A2	1-2	1/4" x 1/2" FL	40.80
IPAR070	AS	1/4-1	1/4" x 3/8" ODS	36.05

VALVES

Expansion valves



R Series

Balanced port thermostatic expansion valve

The Sporlan Type ER balance port thermostatic expansion valves have a brass bar stock body. The balance port design provides perfect pin and port alignment and prevents pressure drop across the valve from influencing valve operation.

ADJUSTABLE SUPERHEAT, SOLDER CONNECTION, 1.5M CAPILLARY BALANCED PORT DESIGN

STOCK CODE	MODEL	REFRIGERANT	CAPACITY (TONS) (KW)		EQUALISER	MOP (PSI)	INLET/OUTLET CONNECTIONS	(RE) £ NET EA
SPEV005	ERSE-1-C	R404A	1	3.5	External	-	3/8" x 1/2"	81.59
SPEV010	ERSE-1-ZP	R404A	1	3.5	External	-	3/8" x 1/2"	81.59
SPEV015	ERSE-1.1/2-C	R404A	1.1/2	5.3	External	-	3/8" x 1/2"	81.59
SPEV020	ERSE-1.1/2-ZP	R404A	1.1/2	5.3	External	35	3/8" x 1/2"	81.59
SPEV025	ERSE-2-C	R404A	2	7.0	External	-	3/8" x 1/2"	81.59
SPEV030	ERSE-2-ZP	R404A	2	7.0	External	35	3/8" x 1/2"	81.59
SPEV035	ERSE-3-C	R404A	3	11.0	External	-	1/2" x 5/8"	81.59
SPEV040	ERSE-3-ZP	R404A	3	11.0	External	35	1/2" x 5/8"	81.59
SPEV045	ERSE-4-C	R404A	4	14.0	External	-	1/2" x 7/8"	81.59
SPEV050	ERSE-4-ZP	R404A	4	14.0	External	35	1/2" x 7/8"	81.59
SPEV055	ERSE-6-C	R404A	6	21.1	External	-	5/8" x 7/8"	81.59
SPEV060	ERSE-6-ZP	R404A	6	21.1	External	35	5/8" x 7/8"	81.59
SPEV065	ERJE-1-C	R134a	1	3.5	External	-	3/8" x 1/2"	81.59
SPEV070	ERJE-1.1/2-C	R134a	1.1/2	5.3	External	-	3/8" x 1/2"	81.59
SPEV075	ERJE-2-C	R134a	2	7.0	External	-	3/8" x 1/2"	81.59
SPEV080	ERJE-3-C	R134a	3	11.0	External	-	3/8" x 1/2"	81.59
SPEV085	ERJE-4-CP60	R134a	4	14.0	External	60	1/2" x 5/8"	81.59
SPEV090	ERJE-5-CP60	R134a	5	17.6	External	60	5/8" x 7/8"	81.59
SPEV100	ERZE-1-CP180	R410A	1	3.5	External	180	3/8" x 1/2"	81.59
SPEV102	ERZE-1-GA	R410A	1	3.5	External	-	3/8" x 1/2"	81.59
SPEV105	ERZE-1.1/2-CP180	R410A	1.1/2	5.3	External	180	3/8" x 1/2"	81.59
SPEV107	ERZE-1.1/2-GA	R410A	1.1/2	5.3	External	-	3/8" x 1/2"	81.59
SPEV110	ERZE-2-CP180	R410A	2	7.0	External	180	3/8" x 1/2"	81.59
SPEV112	ERZE-2-GA	R410A	2	7.0	External	-	3/8" x 1/2"	81.59
SPEV115	ERZE-3-CP180	R410A	3	11.0	External	180	3/8" x 1/2"	81.59
SPEV117	ERZE-3-GA	R410A	3	11.0	External	-	3/8" x 1/2"	81.59
SPEV120	ERZE-4-CP180	R410A	4	14.0	External	180	3/8" x 1/2"	81.59
SPEV122	ERZE-4-GA	R410A	4	14.0	External	-	3/8" x 1/2"	81.59
SPEV125	ERZE-5-CP180	R410A	5	17.6	External	180	3/8" x 1/2"	81.59
SPEV127	ERZE-5-GA	R410A	5	17.6	External	-	3/8" x 1/2"	81.59
SPEV130	ERZE-6-CP180	R410A	6	21.1	External	180	1/2" x 5/8"	81.59
SPEV132	ERZE-6-GA	R410A	6	21.1	External	-	1/2" x 5/8"	81.59
SPEV135	ERZE-8-CP180	R410A	8	28.0	External	180	1/2" x 7/8"	81.59
SPEV137	ERZE-8-GA	R410A	8	28.0	External	-	1/2" x 7/8"	81.59
SPEV140	ERZE-8-CP180	R410A	8	28.0	External	180	5/8" x 7/8"	81.59
SPEV142	ERZE-8-GA	R410A	8	28.0	External	-	5/8" x 7/8"	81.59
SPEV145	ERZE-12.1/2-CP180	R410A	12.1/2	44.0	External	180	5/8" x 7/8"	102.89
SPEV147	ERZE-12.1/2-GA	R410A	12.1/2	44.0	External	-	5/8" x 7/8"	102.89
SPEV150	ERZE-12.1/2-CP180	R410A	12.1/2	44.0	External	180	5/8" x 1.1/8"	102.89
SPEV152	ERZE-12.1/2-GA	R410A	12.1/2	44.0	External	-	5/8" x 1.1/8"	102.89
SPEV155	ERZE-15-CP180	R410A	15	53.0	External	180	5/8" x 7/8"	102.89
SPEV157	ERSE-15-GA	R410A	15	53.0	External	-	5/8" x 7/8"	102.89
SPEV160	ERZE-15-CP180	R410A	15	53.0	External	180	5/8" x 1.1/8"	102.89
SPEV162	ERZE-15-GA	R410A	15	53.0	External	-	5/8" x 1.1/8"	102.89

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



S Series

Thermostatic expansion valve

The Sporlan Type S thermostatic expansion valves have a brass bar stock body. The S valve has ODF connections.

ADJUSTABLE SUPERHEAT, SOLDER CONNECTIONS, 1.5M CAPILLARY BALANCED PORT DESIGN

STOCK CODE	MODEL	REFRIGERANT	CAPACITY (TONS)	(KW)	EQUALISER	MOP (PSI)	INLET/OUTLET CONNECTIONS	(RE) £ NET EA
SPTV330	SJE-2	R134A	2	7.03	External		1/2" x 5/8" ODS	96.74
SPTV332	SJE-2.1/2	R134A	2.1/2	8.79	External		1/2" x 7/8" ODS	96.74
SPTV334	SJE-3	R134A	3	10.60	External		1/2" x 7/8" ODS	96.74
SPTV336	SJE-5	R134A	5	17.60	External		5/8" x 7/8" ODS	96.74
SPTV338	SJE-6	R134A	6	21.10	External		5/8" x 7/8" ODS	96.74
SPTV340	SJE-10	R134A	10	35.20	External		7/8" x 1.1/8" ODS	103.31
SPTV342	SNE-2	R407A/C/F	2	7.03	External		1/2" x 5/8" ODS	96.74
SPTV344	SNE-3	R407A/C/F	3	10.60	External		1/2" x 5/8" ODS	96.74
SPTV346	SNE-4	R407A/C/F	4	14.10	External		1/2" x 7/8" ODS	96.74
SPTV348	SNE-5	R407A/C/F	5	17.60	External		1/2" x 7/8" ODS	96.74
SPTV350	SNE-8	R407A/C/F	8	28.10	External		5/8" x 7/8" ODS	96.74
SPTV352	SNE-10	R407A/C/F	10	35.20	External		5/8" x 7/8" ODS	96.74
SPTV354	SNE-15	R407A/C/F	15	52.80	External		7/8" x 1.1/8" ODS	103.31
SPTV356	SSE-2	R404A	2	7.03	External		1/2" x 5/8" ODS	96.74
SPTV358	SSE-2-ZP	R404A	2	7.03	External	35	1/2" x 5/8" ODS	96.74
SPTV360	SSE-3	R404A	3	10.60	External		1/2" x 7/8" ODS	96.74
SPTV362	SSE-3-ZP	R404A	3	10.60	External	35	1/2" x 7/8" ODS	96.74
SPTV364	SSE-4	R404A	4	14.10	External		1/2" x 7/8" ODS	96.74
SPTV366	SSE-4-ZP	R404A	4	14.10	External	35	1/2" x 7/8" ODS	96.74
SPTV368	SSE-6	R404A	6	21.10	External		5/8" x 7/8" ODS	96.74
SPTV370	SSE-6-ZP	R404A	6	21.10	External	35	5/8" x 7/8" ODS	96.74
SPTV372	SSE-7	R404A	7	24.60	External		5/8" x 7/8" ODS	96.74
SPTV374	SSE-7-ZP	R404A	7	24.60	External	35	5/8" x 7/8" ODS	96.74
SPTV376	SSE-10	R404A	10	35.20	External		7/8" x 1.1/8" ODS	103.31
SPTV378	SSE-10-ZP	R404A	10	35.20	External	35	7/8" x 1.1/8" ODS	103.31



Type EBS

Thermostatic expansion valve

The Sporlan Type EBS balance port thermostatic expansion valves have a brass bar stock body with extended ODF connections, adjustable superheat, long lasting replaceable power element and accessible internal parts.

ADJUSTABLE SUPERHEAT, SOLDER CONNECTIONS, 1.5M CAPILLARY BALANCED PORT DESIGN

STOCK CODE	MODEL	REFRIGERANT	CAPACITY (TONS)	(KW)	EQUALISER	MOP (PSI)	INLET/OUTLET CONNECTIONS	(RE) £ NET EA
SPTV380	EBSJE-5-C	R134a	5	17.6	External	-	5/8" x 7/8"	89.01
SPTV382	EBSJE-7-C	R134a	7	24.6	External	-	5/8" x 7/8"	89.01
SPTV384	EBSJE-9-C	R134a	9	31.7	External	-	7/8" x 1.1/8"	117.47
SPTV386	EBSJE-12-C	R134a	12	42.2	External	-	7/8" x 1.3/8"	117.47
SPTV388	EBSNE-8-C	R407A/C/F	8	28.1	External	-	5/8" x 7/8"	89.01
SPTV390	EBSNE-11-C	R407A/C/F	11	38.7	External	-	5/8" x 7/8"	89.01
SPTV392	EBSNE-15-C	R407A/C/F	15	52.8	External	-	7/8" x 1.1/8"	117.47
SPTV394	EBSNE-20-C	R407A/C/F	20	70.3	External	-	7/8" x 1.3/8"	117.47
SPTV396	EBSSE-6-C	R404A	6	21.1	External		5/8" x 7/8"	89.01
SPTV398	EBSSE-6-ZP	R404A	6	21.1	External	35	5/8" x 7/8"	89.01
SPTV400	EBSSE-7.1/2-C	R404A	7.1/2	26.4	External	-	5/8" x 7/8"	89.01
SPTV402	EBSSE-7.1/2-ZP	R404A	7.1/2	26.4	External	35	5/8" x 7/8"	89.01
SPTV404	EBSSE-10-C	R404A	10	35.2	External	-	7/8" x 1.1/8"	117.47
SPTV406	EBSSE-10-ZP	R404A	10	35.2	External	35	7/8" x 1.1/8"	117.47
SPTV408	EBSSE-13-C	R404A	13	45.7	External	-	7/8" x 1.1/8"	117.47
SPTV410	EBSSE-13-ZP	R404A	13	45.7	External	35	7/8" x 1.3/8"	117.47

VALVES

Expansion valves



O Series

Thermostatic expansion valve

The Sporlan Type O balance port thermostatic expansion valves have a brass bar stock body with extended ODF connections, adjustable superheat, long lasting replaceable power element and accessible internal parts.

ADJUSTABLE SUPERHEAT, SOLDER CONNECTIONS, 1.5M CAPILLARY BALANCED PORT DESIGN

STOCK CODE	MODEL	REFRIGERANT	CAPACITY (TONS) (KW)		EQUALISER	MOP (PSI)	INLET/OUTLET CONNECTIONS	(RE) £ NET EA
SPTV412	OJE-9-C	R134a	9	31.7	External	-	7/8" x 1.1/8"	143.71
SPTV414	OJE-12-C	R134a	12	42.2	External	-	7/8" x 1.3/8"	143.71
SPTV416	OJE-16-C	R134a	16	56.3	External	-	1.1/8" x 1.3/8"	143.71
SPTV418	OJE-23-C	R134a	23	80.9	External	-	1.1/8" x 1.3/8"	263.14
SPTV420	OJE-32-C	R134a	32	113.0	External	-	1.1/8" x 1.3/8"	263.14
SPTV422	OJE-40-C	R134a	40	141.0	External	-	1.1/8" x 1.3/8"	263.14
SPTV424	ONE-15-C	R407A/C/F	15	52.8	External	-	7/8" x 1.1/8"	143.71
SPTV426	ONE-20-C	R407A/C/F	20	70.3	External	-	7/8" x 1.3/8"	143.71
SPTV428	ONE-30-C	R407A/C/F	30	106.0	External	-	1.1/8" x 1.3/8"	143.71
SPTV430	ONE-40-C	R407A/C/F	40	141.0	External	-	1.1/8" x 1.3/8"	263.14
SPTV432	ONE-55-C	R407A/C/F	55	193.0	External	-	1.1/8" x 1.3/8"	263.14
SPTV434	ONE-70-C	R407A/C/F	70	246.0	External	-	1.1/8" x 1.3/8"	263.14
SPTV436	OSE-9-C	R404A	9	31.7	External	-	7/8" x 1.1/8"	143.71
SPTV440	OSE-12-C	R404A	12	42.2	External	-	7/8" x 1.3/8"	143.71
SPTV444	OSE-21-C	R404A	21	73.9	External	-	1.1/8" x 1.3/8"	143.71
SPTV448	OSE-30-C	R404A	30	106.0	External	-	1.1/8" x 1.3/8"	263.14
SPTV452	OSE-35-C	R404A	35	123.0	External	-	1.1/8" x 1.3/8"	263.14
SPTV456	OSE-45-C	R404A	45	158.0	External	-	1.1/8" x 1.3/8"	263.14



RFKH Series

Thermostatic expansion valve

RFKH series thermostatic expansion valves are used to adjust mass flow of refrigerant into the evaporator while controlling the refrigerant's superheat at the outlet of the evaporator. They can be used for various refrigerants under all working conditions.

Sanhua Interchangeable orifice valve now including R410A & R407F/R407A

VALVE BODY

CODE	MODEL	REFRIGERANT	INLET	OUTLET	EQUALISER	(AA) £ LIST EA
SANH441	RFKH04-2.9-23	R134a	3/8" FLARE	1/2" FLARE	INTERNAL	26.46
SANH443	RFKH04E-2.9-19	R134a	3/8" FLARE	1/2" FLARE	EXTERNAL	31.71
SANH445	RFKH04-2.9-30	R134a	3/8" FLARE	1/2" ODS	INTERNAL	26.46
SANH447	RFKH04E-2.9-31	R134a	3/8" FLARE	1/2" ODS	EXTERNAL	31.71
SANH449	RFKH03-4.8-21	R404A	3/8" FLARE	1/2" FLARE	INTERNAL	26.46
SANH451	RFKH03E-4.8-15	R404A	3/8" FLARE	1/2" FLARE	EXTERNAL	31.71
SANH453	RFKH03-4.8-09	R404A	3/8" FLARE	1/2" ODS	INTERNAL	26.46
SANH455	RFKH03E-4.8-10	R404A	3/8" FLARE	1/2" ODS	EXTERNAL	31.71
SANH457	RFKH02-6.3-24	R407C	3/8" FLARE	1/2" FLARE	INTERNAL	26.46
SANH459	RFKH02E-6.3-20	R407C	3/8" FLARE	1/2" FLARE	EXTERNAL	31.71
SANH461	RFKH02-6.3-32	R407C	3/8" FLARE	1/2" ODS	INTERNAL	26.46
SANH463	RFKH02E-6.3-18	R407C	3/8" FLARE	1/2" ODS	EXTERNAL	31.71
SANH465	RFKH07-6.0-43	R407A/F	3/8" FLARE	1/2" FLARE	INTERNAL	26.46
SANH467	RFKH07E-6.0-42	R407A/F	3/8" FLARE	1/2" FLARE	EXTERNAL	31.71
SANH469	RFKH07-6.0-45	R407A/F	3/8" FLARE	1/2" ODS	INTERNAL	26.46
SANH471	RFKH07E-6.0-46	R407A/F	3/8" FLARE	1/2" ODS	EXTERNAL	31.71
SANH473	RFKH05-7.6-66	R410A	3/8" FLARE	1/2" FLARE	INTERNAL	26.46
SANH475	RFKH05E-7.6-33	R410A	3/8" FLARE	1/2" FLARE	EXTERNAL	31.71
SANH477	RFKH05-7.6-35	R410A	3/8" FLARE	1/2" ODS	INTERNAL	26.46
SANH479	RFKH05E-7.6-34	R410A	3/8" FLARE	1/2" ODS	EXTERNAL	31.71

ORIFICE

CODE	MODEL	NOMINAL CAPACITY					(AA) £ LIST EA
		R134A	R404A	R407C	R407A/F	R410A	
SANH420	0X	0.69	0.70	1.00	1.00	1.10	5.75
SANH421	00	1.20	1.40	2.10	1.80	2.20	5.75
SANH422	01	2.10	2.80	4.00	3.70	4.50	5.75
SANH423	02	2.70	4.00	5.40	5.10	5.60	5.75
SANH424	03	4.40	6.80	9.20	8.30	10.00	5.75
SANH425	04	6.50	10.80	13.90	13.40	15.20	5.75
SANH426	05	8.60	14.10	18.50	17.60	19.10	5.75
SANH427	06	10.30	16.80	22.10	21.20	24.00	5.75

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"	3.39
SANH491	RFKA-038-05	3/8" X 1/4"	3.39

Nominal capacities are quoted at +4.4°C evaporating, 38°C condensing, liquid temp 37°C



T2

Thermostatic expansion valve

T2 Thermostatic expansion valves are used for liquid injection into evaporators on both refrigeration and air conditioning systems using fluorinated refrigerants. T 2/TE 2 is supplied with an interchangeable orifice assembly for easy stocking and service.

VALVE BODIES - INTERNALLY EQUALISED

STOCK CODE	MODEL	REFRIGERANT	EQUALISER	INLET/OUTLET CONNECTIONS	MOP (PSI)	(RQ) £ NET EA
DAN100	TX-2(N)	R22	Internal	3/8" FI x 1/2" ODS	-	38.80
DAN102	TX-2-(N)	R22	Internal	3/8" FI x 1/2" FI	-	38.80
DAN125	TN-2-(N)	R134a	Internal	3/8" FI x 1/2" ODS	-	29.88
DAN130	TN-2-(N)	R134a	Internal	3/8" FI x 1/2" FI	-	29.88
DAN151	TS-2-(N)	R404A	Internal	3/8" FI x 1/2" ODS	-	29.88
DAN150	TS-2-(N)	R404A	Internal	3/8" FI x 1/2" FI	-	29.88
DAN152	TS-2-(NL)	R404A	Internal	3/8" FI x 1/2" ODS	50	29.88
DAN154	TS-2-(NL)	R404A	Internal	3/8" FI x 1/2" FI	50	29.88
DAN175	TZ-2-(N)	R407C	Internal	3/8" FI x 1/2" FI	-	29.88

VALVE BODIES - EXTERNALLY EQUALISED

DAN108	TEX-2-(N)	R22	External	3/8" FI x 1/2" ODS	-	62.22
DAN112	TEX-2-(N)	R22	External	3/8" FI x 1/2" FI	-	57.98
DAN132	TEN-2-(N)	R134a	External	3/8" FI x 1/2" ODS	-	47.80
DAN136	TEN-2-(N)	R134a	External	3/8" FI x 1/2" FI	-	47.80
DAN160	TES-2-(N)	R404A	External	3/8" FI x 1/2" ODS	-	47.80
DAN162	TES-2-(N)	R404A	External	3/8" FI x 1/2" FI	-	46.36
DAN163	TES-2-(NL)	R404A	External	3/8" FI x 1/2" ODS	50	47.80
DAN164	TES-2-(NL)	R404A	External	3/8" FI x 1/2" FI	50	46.36
DAN180	TEZ-2-(N)	R407C	External	3/8" FI x 1/2" ODS	-	47.80
DAN185	TEZ-2-(N)	R407C	External	3/8" FI x 1/2" FI	-	46.36
DAN188	TE-2(N)	R407A/F	External	3/8" FI x 1/2" ODS	-	57.04

VALVES

Expansion valves



T2

Orifices for expansion valve - Strainer and label

Orifice assemblies with filters, designed for use with either solder adapter product configurations or standard product configurations.

ORIFICES (FLARE VALVE)

CODE	MODEL	NOMINAL DUTY (KW)				(RQ) £ LIST EA
		R134A	R404A	R407F	R407C	
DAN195	CX	0.4	0.38	1.0	0.50	11.03
DAN200	00	0.9	0.70	2.0	1.1	11.03
DAN202	01	1.8	1.6	4.0	2.7	11.03
DAN204	02	2.6	2.1	5.6	3.8	11.03
DAN206	03	4.6	4.2	9.5	5.6	11.03
DAN208	04	6.7	6.0	14.8	8.6	11.03
DAN210	05	8.6	7.7	19.5	11.3	11.03
DAN212	06	10.5	9.1	23.3	16.7	11.03

ORIFICES (SOLDER VALVE)

DAN214	CX	0.4	0.38	1.0	0.50	11.03
DAN216	00	0.9	0.70	2.0	1.1	11.03
DAN218	01	1.8	1.6	4.0	2.7	11.03
DAN220	02	2.6	2.1	5.6	3.8	11.03
DAN222	03	4.6	4.2	9.5	5.6	11.03
DAN224	04	6.7	6.0	14.8	8.6	11.03
DAN226	05	8.6	7.7	19.5	11.3	11.03
DAN228	06	10.5	9.1	23.3	16.7	11.03



T2

T2 Solder adapter

Orifice assemblies with filters, designed for use with either solder adapter product configurations or standard product configurations.

SOLDER ADAPTORS (TO CONVERT FLARE INLET TO ODS)

CODE	MODEL	SIZE (BODY & TUBE)	(RQ) £ LIST EA
DAN240	068-2060	3/8" Flare x 3/8" ODS	9.04
DAN242	068-2062	3/8" Flare x 1/4" ODS	9.04



SANHUA

DPF Series

Electronic expansion valve

This series of electronic expansion valves supports automatic adjustment of refrigerant flow rate and makes the system work under optimized conditions for the purpose of fast cooling or heating, precise temperature control and energy saving. Designed for use in refrigeration, air conditioning or heat pump applications.

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	57.26
SANH801	DPF-(S03)4.0C-01	ELECTRONIC EXP VALVE BODY	SANH810	32.3	42	29.4	50.4	92.47
SANH802	DPF-(S03)4.5C-01	ELECTRONIC EXP VALVE BODY	SANH811	40.4	52.5	36.8	63	92.47
SANH803	DPF-(S03)5.5C-01	ELECTRONIC EXP VALVE BODY	SANH811	53.9	70	49	84	92.47
SANH804	DPF-(S03)6.5C-01	ELECTRONIC EXP VALVE BODY	SANH811	80.9	105	73.5	126	93.69
SANH810	PQ-M10012-000001	VALVE COIL						21.37
SANH811	PQ-M03012-000001	VALVE COIL						57.31

* Nominal working conditions: Condensing temperature 38°C, Evaporating temperature 5°C : Sub-cooling 0°K, Superheat 0°K

For more detailed information the manufacturer's data sheet is available on request.

For driver, see Dixell XEV22D (P/N DIXL813).



dixell

EX3

Electronic expansion valve

The Dixell EX3 is an electronically operated expansion device that provides precise control of refrigerant flow and system superheat. The EX3 employs a high resolution, linear stepper motor in conjunction with a built-in solenoid to provide positive closure in the event of power interruption.

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).



Parker **SPORLAN**

A, B and E Series

Solenoid valves

The primary purpose of an electrically operated solenoid valve is to control automatically the flow of fluids, liquid or gas. Sporlan Solenoid Valves may be applied on a wide variety of application.

NORMALLY CLOSED VALVES

CODE	MODEL NO	CONNECTION SIZE	PORT SIZE MM	(RE) £ NET EA
SPOR301	A3F1	1/4" FL	2.6	33.06
SPOR303	B6F1	3/8" FL	4.8	41.82
SPOR305	B9F2	3/8" FL	7.1	50.84
SPOR307	B10F2	1/2" FL	7.9	63.61
SPOR309	E3S120	1/4" EXT	2.6	33.06
SPOR311	E6S130	3/8" EXT	4.8	41.82
SPOR313	E9S230	3/8" EXT	7.1	50.84
SPOR315	E10S240	1/2" EXT	7.9	63.61
SPOR317	E14S250	5/8" EXT	11.1	68.59
SPOR319	E19S270	7/8" EXT	15.1	112.11
SPOR321	E25S290	1.1/8" EXT	19.8	164.88
SPOR324	E35S1110	1.3/8" EXT	25.4	264.23
SPOR325	E42S2130	1.5/8" EXT	33.3	404.17
SPOR327	E42S2170	2.1/8" EXT	33.3	417.12

SPOR301-311 use MKC-1 coil, others use MKC-2.

NORMALLY OPEN VALVES

SPOR329	OE9S230	3/8" EXT	7.1	91.25
SPOR331	OE10S240	1/2" EXT	7.9	100.38
SPOR333	OE14S250	5/8" EXT	11.1	110.42
SPOR335	OE19S270	7/8" EXT	15.1	158.66
SPOR337	OE25S290	1.1/8" EXT	19.8	215.93
SPOR339	OE34S2110	1.3/8" EXT	25.4	343.13
SPOR341	OE42S2130	1.5/8" EXT	33.3	499.03
SPOR343	OE42S2170	2.1/8" EXT	33.3	513.19

Use OMKC-2 coils.

VALVES

Solenoid valves



MKC

Solenoid coils

Solenoid Coils convert electrical energy into linear motion to open or close a valve. They are used on Sporlan Solenoid and Pressure Regulating Valves.

CODE	MODEL	VOLTAGE	(RE) £ LIST EA
SPOR451	MKC-1	220-240 VAC	23.98
SPOR452	MKC-1	120 VAC	23.89
SPOR454	MKC-1	24 VAC, 50/60, JAQ	23.89
SPOR460	MKC-2	220-240 VAC	25.64
SPOR461	MKC-2	120 VAC	25.64
SPOR464	MKC-2	24 VAC	25.64
SPOR470	OMKC-2	220-240 VAC	25.64



10G79B / 10G711B / 10G711C

Hot gas defrost valves

Hot gas defrost valves are utilized in systems in which one or more compressors provide refrigeration to multiple refrigerated cases, both medium and low temperature.

CODE	MODEL	DISCHARGE	SUCTION/EVAP	(RE) £ LIST EA
SPOR485	10G79B	7/8" ODF	1.1/8" ODF	332.69
SPOR487	10G711B	7/8" ODF	1.3/8" ODF	345.52
SPOR489	10G711C	7/8" ODF	1.3/8" ODF	366.45

Use MKC-1 coils for above valves.



V Series

Ruby seat solenoid valves

V-Series is a new range of solenoid valves for the liquid line, suction line and hot gas service for refrigeration and AC applications.

SOLENOID VALVES (SCEM)

CODE	PART NO	CONNECTION SIZE	PORT SIZE (MM)	(AA) £ LIST EA
JPAR095	V3F2	1/4" FL	2.5mm	25.96
JPAR100	V4F2	1/4" FL	3mm	25.96
JPAR105	V4F3	3/8" FL	3mm	25.96
JPAR110	V10F3	3/8" FL	8mm	44.91
JPAR115	V13F4	1/2" FL	10mm	47.22
JPAR120	V19F5	5/8" FL	15mm	61.44
JPAR130	V4S2	1/4" EXT	3mm	30.68
JPAR135	V10S3	3/8" EXT	8mm	44.91
JPAR140	V13S4	1/2" EXT	10mm	47.22
JPAR145	V19S5	5/8" EXT	15mm	70.87
JPAR150	V23S6	3/4" EXT	18mm	101.59
JPAR155	V23S7	7/8" EXT	18mm	106.31
JPAR160	V23S9	1.1/8" EXT	18mm	136.98

COILS

CODE	MODEL NO	VOLTAGE	(AA) £ LIST EA
JPAR650	RT14	240 VAC	14.13
JPAR652	RT14	110 VAC	14.13
JPAR654	RT14	24 VAC	14.13
JPAR540	CD21	12 VDC	29.39
JPAR541	CD21	24 VDC	29.39



EVR Type Solenoid valves

Danfoss EVR solenoid valve (NC) is a normally closed, direct or servo operated solenoid valve for liquid, suction and hot gas lines with fluorinated refrigerants. EVR valves are supplied as separate components, i.e. valve body, coil and flanges.

CODE	PART NO	CONNECTION SIZE	PORT SIZE (MM)	(RQ) £ LIST EA
DAN604	EVR3	1/4" FL	3.3	29.39
DAN606	EVR3	3/8" FL	3.3	29.39
DAN608	EVR3	1/4" EXT	3.3	28.50
DAN610	EVR3	3/8" EXT	3.3	28.50
DAN612	EVR6	3/8" FL	6.0	38.69
DAN614	EVR6	1/2" FL	6.0	38.93
DAN616	EVR6	3/8" EXT	6.0	37.52
DAN618	EVR6	1/2" EXT	6.0	37.52
DAN620	EVR10	1/2" FL	10.0	55.41
DAN622	EVR10	5/8" FL	10.0	55.41
DAN624	EVR10	1/2" EXT	10.0	53.84
DAN626	EVR10	5/8" EXT	10.0	53.84
DAN628	EVR15	5/8" FL	14.0	93.02
DAN630	EVR15	5/8" EXT	14.0	90.36
DAN632	EVR15	7/8" EXT	14.0	90.36
DAN634	EVR20	1.1/8" EXT	22.0	142.22



EVR Type Solenoid valves coils

The Danfoss coil program consists of both the easy-to-handle Clip-On system and traditional coils with threaded fastener.

CODE	DESCRIPTION	VOLTAGE	(RQ) £ LIST EA
DAN680	COIL 10W TERMINAL BOX	230 VAC	20.75
DAN682	COIL 10W 1M CABLE	230VAC	21.79
DAN684	COIL 10W 1M CABLE	24 VAC	20.75



MDF Series Solenoid valve

Sanhua solenoid valves MDF series solenoid valves are direct operated or pilot operated solenoid valves, mainly used in refrigerant control of various devices such as refrigerating and freezing systems, air conditioners and heat pumps.

SOLENOID VALVES

CODE	PART NO	CONNECTION SIZE	PORT SIZE (MM)	(AA) £ LIST EA
SANH010	MDF-A03-2L001	1/4" FL	2mm	14.48
SANH012	MDF-A03-3L001	1/4" FL	3mm	14.48
SANH014	MDF-A03-6L001	3/8" FL	6mm	19.86
SANH016	MDF-A03-10L	1/2" FL	10mm	31.30
SANH018	MDF-A03-15L001	5/8" FL	15mm	37.62
SANH020	MDF-A03-2H001	1/4" EXT	2mm	14.48
SANH022	MDF-A03-3H001	1/4" EXT	3mm	14.48
SANH024	MDF-A03-6H001	3/8" EXT	6mm	19.86
SANH026	MDF-A03-10H001	1/2" EXT	10mm	31.30
SANH028	MDF-A03-15H001	5/8" EXT	15mm	37.62
SANH030	MDF-A03-20H001	7/8" EXT	20mm	94.79
SANH032	MDF-A03-20H003	1.1/8" EXT	20mm	103.31

Price for body only.

VALVES

Solenoid valves



MDF Series

Solenoid valve

With DIN style connector.

COILS

CODE	DESCRIPTION	VOLTAGE	(AA) £ LIST EA
SANH040	MDF6003	220-240 50/60Hz AC	14.61
SANH042	MDF6001	24V 50/60Hz	14.61



SAGInoMIYA

NEV Type

Solenoid valve

Direct operated, pilot operated, 2 way, normally closed valve. Normally open type is available.
For use with non-corrosive refrigerant. **NEV prices for body only (Below panel)**

SOLENOID VALVES

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



SEV Type

Solenoid valve

Pilot operated, 2 way, normally closed valve.
For non-corrosive refrigerant (liquid or gas) in refrigeration units. Also available for air application.
Can operate under no pressure difference. Can be installed horizontally and vertically.
SEV prices include 240 volt coil (Below panel)

SOLENOID VALVES

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



STF and VHV Type

Solenoid valve - 4 way reversing

Designed to lower the minimum operating pressure difference between high and low side. Pressure drop and valve leakage are minimized. Suitable for R410A, R407C, R134a, R404A, R22. Other voltages on request.

SOLENOID VALVES

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



AWR & SWR

Water regulating valves

Type: 2-way pressure actuated water regulating valves, open on pressure increase.

Type SWR: 3-way pressure actuated water regulating valves.

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

NEW KD CELLAR★STAR

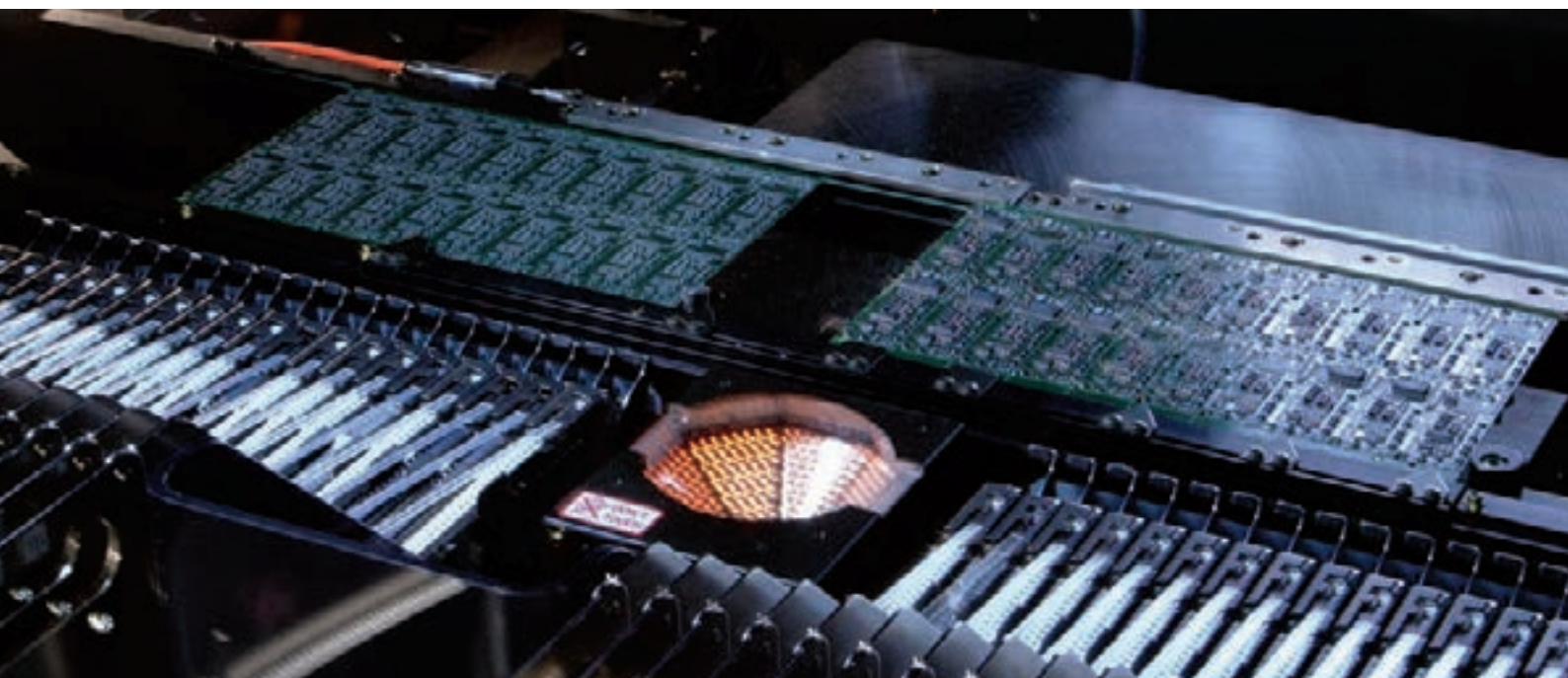


Cellar cooling system

The new KD Cellar Star is a high performance cooling system designed to control cellar temperature to maintain beer and wine in optimum condition.

Product features:

- Housed outdoor unit equipped with a rotary compressor
- Includes microchannel condenser, liquid receiver, refrigerant charge and service valves
- Acoustically lined compressor compartment for noise reduction
- Dixell electronic controller with off cycle defrost
- LP Safety switch
- R410A Sporlan expansion valve and contactor
- Long lasting white powder coated finish
- Indoor unit comes with hinged side panels for easy access



ELECTRONIC CONTROLS

ELECTRONIC CONTROLS



dixell®

Universal R

Electronic control - Universal replacement

Design to replace over 150 models of refrigeration/heating controllers in 32x74mm format
Easy and quick installation
Rapid set-up in 3 simple steps
Dual voltage power supply 12Vac/dc and 230Vac



Universal J

Electronic control - Universal replacement

Designed to replace the majority of 32x74mm *refrigeration* controllers in their most typical applications, the Universal-J offers a simple but effective solution and compliments it's "big brother", the Universal-R.
For Off Cycle Defrost and On/Off cooling / heating applications.

CODE	MODEL	UNIVERSAL SERVICE REPLACEMENT FOR	PROBE(S) INCL.	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	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 2XNTC	3 x 8A FAN x 7A		59.75



X Cool and X Freeze

Pre-programmed electronic controls

NEW

A new family of low cost 230V pre-programmed *refrigeration* controllers that come complete with temperature probes. X-Cool for all HT applications and X-Freeze for all HT and LT applications.

Standard 32 x 74mm IP65

CODE	MODEL	PRE-PROGRAMMED CONTROLLER FOR	COMP RELAY	PROBE INCL.	SUPPLY	(AJ) £ LIST EA
DIXL048	X-COOL	REFRIGERATORS - OFF CYCLE DEFROST	20A	1 x NTC	230V AC	19.95
DIXL049	X-FREEZE	CHILLERS & FREEZERS ELECTRICAL DEFROST	20A	2 x NTC	230V AC	27.88

-40C TO + 50C (X-FREEZE has 3 relays and includes fan delay)

Pre-programmed for desired application.



Prime CX (XR10CX-72CX)

Electronic control - General purpose

Innovative digital controllers dedicated to MT and LT refrigeration, heating options available.
Easy and intuitive programming mode.

CODE	MODEL	DEFROST TYPE	ALARM TYPE	MAX RANGE °C	PROBE(S) INCL.	COMP RELAY	SUPPLY	(AJ) £ LIST EA
DIXL773	XR10CX	NONE	VISUAL	-50 to +150	YES	20A	12V AC/DC	41.04
DIXL775	XR10CX	NONE	VISUAL	-50 to +150	YES	20A	230V AC	45.18
DIXL777	XR20CX	OFF CYCLE	VISUAL	-50 to +150	YES	20A	12V AC/DC	45.96
DIXL780	XR20CX	OFF CYCLE	VISUAL	-50 to +150	YES	20A	230V AC	47.12
DIXL782	XR30CX	OFF CYCLE	VISUAL+RELAY	-50 to +150	YES	20A	12V AC/DC	50.65
DIXL783	XR30CX	OFF CYCLE	VISUAL+RELAY	-50 to +150	YES	20A	230V AC	54.51
DIXL784	XR40CX	TIME/TIME or TEMP	VISUAL	-50 to +150	YES	20A	12V AC/DC	54.36
DIXL785	XR40CX	TIME/TIME or TEMP	VISUAL	-50 to +150	YES	20A	230V AC	58.85
DIXL787	XR60CX	TIME/TEMP+FAN DELAY	VISUAL	-50 to +150	YES	8A	12V AC/DC	54.30
DIXL788	XR60CX	TIME/TEMP+FAN DELAY	VISUAL	-50 to +150	YES	8A	230V AC	58.16
DIXL790	XR60CX	TIME/TEMP+FAN DELAY	VISUAL	-50 to +150	YES	15A	12V AC/DC	62.00
DIXL792	XR60CX	TIME/TEMP+FAN DELAY	VISUAL	-50 to +150	YES	15A	230V AC	66.57
DIXL794	XR70CX	TIME/TEMP+FAN DELAY	VISUAL+BUZZER+RELAY	-50 to +150	YES	5A	230V AC	75.75
DIXL796	XR72CX	TIME/TEMP+FAN DELAY	VISUAL+BUZZER+RELAY	-50 to +150	YES	2 x 5A	230V AC	80.55
DIXL791	XR64CX	TWIN EVAP	VISUAL	-50 to +150	NO	8A	230V AC	55.29

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

ELECTRONIC CONTROLS

Prime CX (XR10CX-72CX)

Multi refrigeration controllers with real time clocks

Innovative digital controllers dedicated to MT and LT refrigeration.

CODE	MODEL	DEFROST TYPE	ALARM TYPE	MAX RANGE °C	PROBE(S) INCL.	COMP RELAY	SUPPLY	(AJ) £ LIST EA
DIXL797	XR30CX	*RTC OFF CYCLE	VISUAL+RELAY	-50 to +150	NO	20A	230V AC	65.20
DIXL795	XR70CX	*RTC TIME/TEMP+FAN DELAY	VISUAL+BUZZER+RELAY	-50 to +150	NO	16A	230V AC	78.63

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



XR100 / 500

Advance refrigeration thermostat and multifunction controllers

Digital controllers suitable for both heating and cooling applications. Complete compressor and defrost management. Built in RS485 for direct connection to monitoring systems (models with 4-20mA output require external RS485 module)

CODE	MODEL	MAIN FUNCTIONS	PROBE INCLUDED	SUPPLY	(AJ) £ LIST EA
DIXL881	XR110C	THERMOSTAT – ON/OFF	NO – USE PTC/NTC	12V AC/DC	51.68
DIXL883	XR120C	THERMOSTAT + OFF CYCLE DEFROST	NO – USE PTC/NTC	12V AC/DC	49.62
DIXL884	XR130C	THERMOSTAT + OFF CYCLE DEFROST + AUX/ALARM RELAY	NO – USE PTC/NTC	12V AC/DC	61.33
DIXL885	XR140C	THERMOSTAT + TIME/TEMP DEFROST	NO – USE PTC/NTC	12V AC/DC	61.53
DIXL887	XR160C	THERMOSTAT + TIME/TEMP DEFROST + FAN DELAY	NO – USE PTC/NTC	12V AC/DC	67.21
DIXL889	XR170C	THERMOSTAT + TIME/TEMP DEFROST + FAN DELAY + AUX/ALARM RELAY	NO – USE PTC/NTC	12V AC/DC	71.21
DIXL083	XR164C	TWIN EVAPORATOR THERMOSTAT + TIME/TEMP DEFROST + FAN DELAY	NO – USE PTC/NTC	12V AC/DC	70.06
DIXL090	XR570C	THERMOSTAT + TIME/TEMP DEFROST + FAN DELAY + AUX/ALARM RELAY + RTC**	NO – USE PTC/NTC	12V AC/DC	110.74
DIXL081	XR170C	THERMOSTAT + TIME/TEMP DEFROST + FAN DELAY + AUX/ALARM RELAY + FSC***	NO – USE PTC/NTC	12V AC/DC	78.25
DIXL801	XR75CX	THERMOSTAT + TIME/TEMP DEFROST + FAN DELAY + AUX/ALARM RELAY + RTC**	NO USE PT1000/NTC	230V AC	78.25
DIXL804	XR75CX	THERMOSTAT + TIME/TEMP DEFROST + FAN DELAY + AUX/ALARM RELAY	NO USE PT1000/NTC	230V AC	74.13

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



XR80CX

Milk tank controller

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	57.06



XT100's

Basic digital thermostat

Universal controllers that manage temperature, humidity and pressure in industrial and commercial applications. One or two stage ON/OFF with direct or reverse action.

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	57.37
DIXL190	XT111C	SINGLE STAGE	RELAY + BUZZER	-55/150	NO	PTC/NTC	12V AC/DC	66.44
DIXL300	XT120C	TWO STAGE	VISUAL	-55/150	NO	PTC/NTC	12V AC/DC	65.17
DIXL310	XT121C	TWO STAGE	RELAY + BUZZER	-55/150	NO	PTC/NTC	12V AC/DC	72.81
DIXL340	XT130C	DEADBAND	VISUAL	-55/150	NO	PTC/NTC	12V AC/DC	60.27
DIXL350	XT131C	DEADBAND	RELAY + BUZZER	-55/150	NO	PTC/NTC	12V AC/DC	74.55

Standard 32 x 74mm IP65.

Most models also available in 72 x 72mm and DIN rail formats.

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.

ELECTRONIC CONTROLS



XT160D and 150D

Multi-stage thermostat

Innovative digital controllers dedicated to heating & cooling applications.

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	89.38
DIXL384	XT150D	3	RELAY	-999/+999	PTC/NTC/PT100/THERMO -COUPLE K, J OR S	24V AC/DC	91.68

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.



XT11S

Thermometer

Measurement unit integrated on display. 3VA max power absorption.

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	31.22
DIXL440	XT11S	0.1	–	-30/80	YES	NTC	230V AC	36.26
DIXL452	ADAPTOR MOUNT FOR 32 x 74 CUTOUT							0.95



XA100C

LED digital thermometer

Measurement unit integrated on display.

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	57.91

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



XH Series

Temperature and humidity controllers

Advanced multifunction controllers with temperature and humidity management
Cooling and heating action for safe storage of products
Defrost management

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	118.03
DIXL752	XH260L	-40/110°C	0-100% RH	USE NTC	USE XH20P	H*	YES	230V	131.85
DIXL755	XH240V	-40/110°C	0-100% RH	USE NTC	USE XH20P	V*	NO	230V	119.24
DIXL757	XH260V	-40/110°C	0-100% RH	USE NTC	USE XH20P	V*	YES	230V	131.85

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



XC Series

Compact step and pack controllers

Digital controller for managing up to four compressors or fans.
Electronic controllers for compact compressor racks management also with inverter.
Compressor types: Digital™, multi-stages, differing power, semi-hermetic, scroll and screw.

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	119.44
DIXL547	XC642C	*5	1 x PTC, NTC or 4-20mA + 1 x PTC FOR LIQUID INJECTION	BUZZER	12V AC/DC	129.40
DIXL548	XC650C	**5	2 x PTC, NTC or 4-20mA	BUZZER	12V AC/DC	129.40
DIXL556	XC645CX	4	2 x NTC (°) or 4.20mA/0.5V – FOR DIGITAL SCROLL	BUZZER	12V AC/DC	179.99
DIXL549	CW15		MULTI-CONNECTOR BLOCK WITH 1.5m CABLES FOR XC640C/XC642C/XC650C			13.48
DIXL551	CAB/CJ15		CABLE & CONNECTOR FOR 4-20mA OUTPUT (XC650C ONLY)			2.18
DIXL557	CWC15-KIT		MULTI-CONNECTOR WITH 1.5m CABLES FOR XC645CX ONLY			16.75

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 probe. Input from digital scroll.

ELECTRONIC CONTROLS



XC706M

Pack controllers

The XC706M controller is designed to manage compressors in a system such as a pack. The compressors can be simple, multistage or with different capacities. The controllers can convert LP pressure and display it as temperature.

CODE	MODEL	NO. OF OUTPUTS	INPUTS (CONFIGURABLE BY PARAMETER)	MOUNT	ALARM TYPE	SUPPLY	(A.J) £ LIST EA
DIXL575	XC706M	6	1 x NTC or 4-20mA COMPRESSOR ONLY	144x72mm PANEL	BUZZER+RELAY	230V	316.64
DIXL580	XC807M	7*	2 x NTC or 4-20mA COMPRESSORS & CONDENSER FANS	144x72mm PANEL	BUZZER+RELAY	230V	335.38
DIXL585	XC811M	11*	2 x NTC or 4-20mA COMPRESSORS & CONDENSER FANS	144x72mm PANEL	BUZZER+RELAY	230V	384.62
DIXL587	XC660D	6	2 x NTC or 4-20mA / 0-5V COMPRESSORS & CONDENSER FANS	DIN	BUZZER	90-260V AC	174.99

* 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



XC1000D

Split pack control

Controllers for compressor rack up to 15 compressors/fans. Up to: eight probe inputs. Up to: 15 configurable relays. Up to: 23 configurable d.i. Two analogue outputs for frequency compressors. Two analogue outputs for inverter for fans.

CODE	MODEL	RELAY OUTPUTS	SUCTION CIRCUITS	DISCHARGE CIRCUITS	ANALOGUE INPUTS*	ANALOGUE OUTPUTS*	ALARM TYPE	SUPPLY	(A.J) £ LIST EA
DIXL598	XC1008D	8	1	1	2	2	RELAY	24V	346.19
DIXL599	XC1011D	11	2	2	4	4	RELAY	24V	376.44
DIXL596	XC1015D	15	2	2	4	4	RELAY	24V	476.13
DIXL597	VGC810	USER INTERFACE / KEYPAD FOR DIXL596/598/599							159.01

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



XEV

Electronic expansion valve drivers

The XEV12D module is able to drive ON/OFF (Pulsed) electronic expansion valves. The XEV22D is designed to drive stepper type electronic expansion valves. These modules are able to regulate the superheat (SH) in order to obtain optimized performance.

CODE	MODEL	DESCRIPTION	TRANSDUCER INPUT	TEMP. INPUT	MAXIMUM LOAD	SUPPLY	(A.J) £ LIST EA
DIXL812	XEV12D	DRIVER FOR PULSED (ON/OFF) TYPE EEV'S	USE 4-20mA	USE PT1000	30W	230V AC	111.89
DIXL813	XEV22D	DRIVER FOR STEPPER TYPE EEV'S	USE 4-20mA	USE PT1000	0.33A/0.9A*	24V AC/DC	151.86
DIXL814	TF20D*	230/24V AC 20VA TRANSFORMER – DIN MOUNT	-	-	-	-	32.78

PT1000 probe – use DIXL985 or DIXL986. Pressure transducer – use DIXL562. Page 94

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



ID Cool / ChillFreeze

Electronic control

The new evolution controllers cover high to low temperatures with two controllers instead of three. Pre-programmed for cool, chill or freeze applications. Pre-set temperature, quickly and easily adjustable. Compatible with industry standard PTC and NTC probes.

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

Range: ID Cool 0°C to +10°C, ID ChillFreeze –40°C to +10°C. ChillFreeze have three relays and include fan delay.

Pre-programmed for desired application.

Ideal for service replacement and original equipment.

ELECTRONIC CONTROLS



ID Plus series

Electronic control

5 models cover the complete range of static and ventilated units.
Each model includes 4 default configurations for quick installation.

CODE	MODEL	DEFROST TYPE	ALARM TYPE	MAX RANGE °C	PROBE(S) INCL.	COMP RELAY	SUPPLY	(AB) £ LIST EA
PELX583	ID PLUS 902	NONE	VISUAL	-55/150	NO	8A	12V	41.79
PELX584	ID PLUS 961	OFF CYCLE	VISUAL	-55/150	NO	12A	12V	42.57
PELX585	ID PLUS 971	TIME/TEMP	BUZZER	-55/150	NO	12A	12V	52.99
PELX586	ID PLUS 974	TIME/TEMP FAN DELAY	BUZZER	-55/150	NO	12A	12V	56.59
PELX594	ID PLUS 902	NONE	VISUAL	-55/150	NO	8A	230V	38.50
PELX595	ID PLUS 961	OFF CYCLE	VISUAL	-55/150	NO	12A	230V	39.28
PELX596	ID PLUS 971	TIME/TEMP	BUZZER	-55/150	NO	12A	230V	48.95
PELX597	ID PLUS 974	TIME/TEMP FAN DELAY	BUZZER	-55/150	NO	12A	230V	52.07
PELX598	ID PLUS 978	TIME/TEMP FAN DELAY	RELAY	-55/150	NO	10A	230V	60.80
PELX599	UNICARD USB/TTL PROGRAMMING KEY (OPTIONAL)*							60.39

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



IS 972LX / ID985LX

The IS 972LX split controller is suited for application on normal or low temperature refrigeration units with fans and is composed of a master unit and slave power base connected by a quick coupling multipolar cable connection. *The ID985LX is an all in one controller with RTC.*

CODE	MODEL	DEFROST TYPE	ALARM TYPE	RTC	PROBE(S) INCL.	COMP RELAY	SUPPLY	(AB) £ LIST EA
PELX685	ID985LX	TIME/TEMP FAN DELAY	VISUAL	YES	NO	8A	12V AC/DC	98.69
PELX800	IS972LX	TIME/TEMP FAN DELAY	VISUAL	NO	NO	AS EWEM	FROM EWEM	52.76
PELX803	EWEM233	SLAVE FOR IS972LX 15A 230V					15A 230V	31.75
PELX810	C0000110	1 METRE CABLE, IS972LX TO EWEM233						4.04
PELX812	C0000112	3 METRE CABLE, IS972LX TO EWEM233						8.87

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



IC Plus series

Electronic control

IC Series are devices with single or double stage depending on the model. Outputs can be dependent, independent or with Neutral Zone and are used for temperature, pressure and humidity applications.

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	54.96
PELX921	IC PLUS 902/A	SINGLE STAGE	RELAY		NO	NTC/PTC	230V AC	62.27
PELX922	IC PLUS 902	SINGLE STAGE	NONE		NO	PT100/TcK/J	230V AC	66.86
PELX923	IC PLUS 915	2 STAGE OR DEADBAND	NONE		NO	NTC/PTC	230V AC	68.70
PELX924	IC PLUS 915	2 STAGE OR DEADBAND	NONE		NO	PT100/TcK/J	230V AC	75.10
PELX930	IC PLUS 902	SINGLE STAGE	NONE		NO	NTC/PTC	12V	52.21
PELX931	IC PLUS 902/A	SINGLE STAGE	RELAY		NO	NTC/PTC	12V	55.87
PELX932	IC PLUS 902	SINGLE STAGE	NONE		NO	PT100/TcK/J	12V	64.11
PELX933	IC PLUS 915	2 STAGE OR DEADBAND	NONE		NO	NTC/PTC	12V	65.95
PELX934	IC PLUS 915	2 STAGE OR DEADBAND	NONE		NO	PT100/TcK/J	12V	72.36

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

Probe type selectable by parameter.

Pressure humidity digital controller

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	66.86
PELX926	IC PLUS 915	2 STAGE OR DEADBAND	NONE		NO		230V AC	75.10
PELX935	IC PLUS 902	SINGLE STAGE	NONE		NO		12V	64.11
PELX936	IC PLUS 915	2 STAGE OR DEADBAND	NONE		NO		12V	72.36

Resolution = 1c(0.1) selectable by parameter.

Probe type selectable by parameter.

ELECTRONIC CONTROLS/ACCESSORIES



EM Plus 600 Electronic Digital Display

The EMPlus 600 is a device for displaying temperature, humidity and pressure in commercial refrigeration and industrial applications.

CODE	MODEL	RESOLUTION	MAX RANGE °C	INPUT TYPE	SUPPLY	(AB) £ LIST EA
PELX460	EM PLUS 600	0.1	-50c to +140c*	PTC / NTC	12 - 24V AC/DC	37.91
PELX461	EM PLUS 600	0.1	-50c to +140c*	PTC / NTC	230V AC	36.10
PELX462	EM PLUS 600	0.1	-150c to +1350C*	PT100/TcJ,K	12 - 24V AC/DC	38.83
PELX463	EM PLUS 600	0.1	-150c to +1350C*	PT100/TcJ,K	230V AC	38.83

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

Pressure humidity digital display

PELX464	EM PLUS 600	0.1	-1999 to + 1999	V/I **	12V AC/DC	34.61
PELX465	EM PLUS 600	0.1	-1999 to + 1999	V/I **	230V AC	37.38

*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



EWCM9900 / 9100 Pack controller

The new EWCM EO controllers allow you to manage cold room compressors reducing consumption to a minimum. All 9000 series models are fully configurable by the user to manage digital compressors and inverter, digital fans and inverter, up to 2 circuits.

CODE	MODEL	RELAY OUTPUTS	MAX COMPRESSORS	MAX FANS	ANALOGUE INPUTS	ANALOGUE OUTPUTS	SUPPLY	(AB) £ LIST EA
PELE768	EWCM9900	19	12	8	3	3	100-240V	550.57
PELE769	EWCM9100	13	11	8	2	2	100-240V	475.74

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



EWTL300 Battery operated LCD Thermometer

The EWTL 300/31 LCD digital thermometer with temperature probes connected to the instrument via a cable of length 1.5 metres.

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	12.76

Battery is supplied with item.

We list a selection of the most popular models from the wide range that we stock. Please contact us for models/variants not shown.



dixell® TF3 and TF5 Transformers

A series of transformers are available to adapt from line voltage to the controller's low voltage supply.

CODE	MODEL	INPUT	OUTPUT	RATING	SUITABILITY	(AK) £ LIST EA
DIXL900	TF3	230V AC	12V AC	3VA	FOR 1 x INSTRUMENT	4.13
DIXL902	TF3-UL	115V AC	12V AC	3VA	FOR 1 x INSTRUMENT	5.75
DIXL904	TF3	24V AC	12V AC	3VA	FOR 1 x INSTRUMENT	5.62
DIXL908	TF5	230V AC	12V AC	5VA	FOR 2 x INSTRUMENTS (or 1 x INSTRUMENT WITH DUAL DISPLAY*)	7.79
DIXL910	TF5	110V AC	12V AC	5VA	FOR 2 x INSTRUMENTS (or 1 x INSTRUMENT WITH DUAL DISPLAY*)	8.15
DIXL912	TF5	24V AC	12V AC	5VA	FOR 2 x INSTRUMENTS (or 1 x INSTRUMENT WITH DUAL DISPLAY*)	8.36

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

ELECTRONIC ACCESSORIES



dixell®

PTC, NTC and PT1000

Probes

The probes with PTC thermistor are designed for both cooling and heating applications.

The probes with NTC thermistor are designed for applications where high accuracy and short response time is important.

PT1000 probes are suitable for all applications where the temperature is between $-50 \div 120^{\circ}\text{C}$ and it is important to maintain precision over long distances.

CODE	MODEL	TYPE	CAP	TEMP. RANGE	CABLE LENGTH	(AK) £ LIST EA
DIXL950	S6	PTC – WATERPROOF – IP67	STAINLESS	$-30/+80^{\circ}\text{C}$	2m	4.90
DIXL956	S6.S	PTC – WATERPROOF – IP67	STAINLESS	$-50/+110^{\circ}\text{C}$	2m	6.20
DIXL957	S6.SH	PTC – HEATING APPLICATIONS	STAINLESS	$\text{MAX } +150^{\circ}\text{C}$	2m	7.55
DIXL965	N6F2	NTC – IP67 – INSULATED FOR 230V*	PLASTIC	$-30/+80^{\circ}\text{C}$	1.5m	5.06
DIXL967	NS6S	NTC – WATERPROOF – IP67	STAINLESS	$-40/+110^{\circ}\text{C}$	2m	5.49
DIXL970	NG6	NTC – WATERPROOF – IP67 – ENCAPSULATED	PLASTIC	$-40/+105^{\circ}\text{C}$	1.5m	3.42
DIXL971	NG6P	NTC – IMMERSION – IP68 – ENCAPSULATED	PLASTIC	$-40/+110^{\circ}\text{C}$	1.5m	6.32
DIXL974	NT6-67	NTC – ADJUSTABLE PIPE MOUNTING	PIPE	$-40/+110^{\circ}\text{C}$	1.5m	7.55
DIXL980	PT310	PT100 – 2 x WIRES	STAINLESS	$-70/+500^{\circ}\text{C}$	2m	49.59
DIXL981	PT6	PT100 – 3 x WIRES	STAINLESS	$-30/+80^{\circ}\text{C}$	2m	24.40
DIXL985	PMT6-67	PT1000 – SUITABLE FOR XEV VALVE DRIVER	PIPE	$-50/+120^{\circ}\text{C}$	1.5m	10.99
DIXL308	NPC10IS	NTC – STAB TYPE INSERTION PROBE – STAINLESS HANDLE	STAINLESS	$-40/+110^{\circ}\text{C}$	3m	45.99
DIXL309	SPC10IA	PTC – STAB TYPE INSERTION PROBE – STAINLESS HANDLE	STAINLESS	$-55/+150^{\circ}\text{C}$	3m	62.16
CON491	PROBE EXTENSION CABLE				25m	10.82

*Insulated for use with 230 volt models XT11S.

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



XH20P

Humidity sensor

XH20P humidity probes are suitable for all those applications where it is necessary to detect and control humidity. Such applications are: refrigeration, drying processes etc.

CODE	MODEL	TYPE	RANGE HUMIDITY %	OUTPUT	SUITABILITY	SUPPLY	(AK) £ LIST EA
DIXL940	XH20P	2 x WIRE	0-100%*	4-20mA	ALL INSTRUMENTS	FROM INSTRUMENT	103.40



Pressure transducer

Pressure transducers outputting a $4 \div 20$ mA or $0 \div 5$ V signal according to model.

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 RATIO METRIC 0-5V	0 - 15.0	0-5V	1/4 FLARE (F)	FROM INSTRUMENT	61.20
DIXL573	PPR30	3 WIRE RATIO METRIC 0-5V	0 - 30.0	0-5V	1/4 FLARE (F)	FROM INSTRUMENT	61.20
DIXL574	PPR45	3 WIRE RATIO METRIC 0-5V	0 - 45.0	0-5V	1/4 FLARE (F)	FROM INSTRUMENT	61.20

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.



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

ELECTRONIC ACCESSORIES



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 - YELLOW	2.97
DIXL924	CXLS	ROCKER SWITCH - GREEN	2.97
DIXL925	T92	EXTERNAL RELAY 30A	12.14



Transformers

Eliwell offers a series of transformers for all instruments having 32x74 front panel format with 12 Volt power supply.

CODE	MODEL	INPUT	OUTPUT	RATING	SUITABILITY	(AE) £ LIST EA
PELE210	TF111111	230V AC	12V AC	3VA	FOR 1X INSTRUMENT	3.86
PELE209	TF111113	110V AC	12V AC	3VA	FOR 1X INSTRUMENT	3.86
PELE212	TF111115	24V AC	12V AC	3VA	FOR 1X INSTRUMENT	4.97
PELE211	TF111126	230V AC	12V AC	10VA	FOR 5X INSTRUMENT	10.97



Probes

Temperature sensors

Temperature probes, PTC, NTC, PT100 etc. for various temperature ranges and cable lengths.

CODE	MODEL	TYPE	CAP	TEMP. RANGE	CABLE LENGTH	(AK) £ LIST EA
PELE320	SN7POA1500	PTC – IP67	STAINLESS	–30/+80°C	1.5M	3.67
PELE324	SN7T6H1502	PTC – IMMERSION IP68	STAINLESS	–50/+110°C	1.5M	3.24
PELE325	SN7POA3000	PTC – IP67	STAINLESS	–30/+80°C	3M	5.12
PELE330	SN7S0A1500	PTC – WATERPROOF – IP67	STAINLESS	–50/+110°C	1.5M	4.78
PELE329	SN607000	PTC – WALL BOX	–	–40/+120°C	0M	20.60
PELE338	S6.SH	PTC – HEATING	STEEL	–40/+150°C	1.5M	6.22
PELX320	SN8SOA1500	NTC – WATERPROOF – IP67	STAINLESS	–40/+110°C	1.5M	4.78
PELX321	SN8T6H1502	NTC – IMMERSION IP68	PLASTIC	–50/+110°C	1.5M	3.75
PELX322	SN691150	NTC – IP67	PLASTIC	–50/+120°C	1.5M	3.32
PELX325	SN8PCL1500	NTC – INSULATED FOR 230V*	PLASTIC	–30/+80°C	1.5M	4.66
PELX330	SN8SAA1500	NTC – INSULATED FOR 230V*	STAINLESS	–40/+110°C	1.5M	6.09
PELE300	SN100000	NI100 – STANDARD	STAINLESS	–20/+80°C	3M	11.83
PELE302	SN106000	NI100 – WATERPROOF	STAINLESS	–50/+150°C	3M	17.11
PELE305	SN200000	PT100 – STANDARD	STAINLESS	0/+350°C	3M	27.14
PELE318	SN603008	PTC – STAB TYPE INSERTION PROBE	STAINLESS	–50/+150°C	3M	22.50
CON490	PROBE EXTENSION CABLE				100M	41.72
CON491	PROBE EXTENSION CABLE				25M	10.82

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

ELECTRONIC ACCESSORIES



Copy card

CODE	MODEL	DESCRIPTION	(AK) £ LIST EA
PELX590	COPYCARD	PROGRAMMING KEY FOR ID & IC SERIES	25.31

Wall mounting boxes and accessories

CODE	MODEL	TYPE	MATERIAL	SUITABILITY	(BB) £ LIST EA
PELE216	EW BOX	WALL BOX	ABS	1 INSTRUMENT (32 X 74MM SERIES)	9.75
PELE215	EW BOX	WALL BOX	ABS	2 INSTRUMENT (32 X 74MM SERIES)	9.75
PELE221	EW BOX	WALL BOX	ABS	1 INSTRUMENT (32 X 74MM SERIES)+ 2 X SWITCHES	9.75
PELE223	EW BOX	WALL BOX	ABS	2 INSTRUMENT (32 X 74MM SERIES)+ 2 X SWITCHES	9.75
PELE225	IN111111	SWITCH	-	FITS WALL BOXES	2.19

ABS boxes 110W x 180H x 100D. PELE215 is horizontal format.



Humidity sensors

The humidity sensors of the EWHS series are designed to be connected to high-accuracy humidity measuring devices.

CODE	MODEL	TYPE	RANGE %RH	OUTPUT	SUITABILITY	(BB) £ LIST EA
PELE980	EWHS314	HUMIDITY + TEMP*	5/98	4-20mA	ALL INSTRUMENTS	283.99
PELE975	EWHS284	HUMIDITY	15/90	4-20mA	ALL INSTRUMENTS	117.49

*Temperature compensation PT100.



Pressure transducers

CODE	MODEL	TYPE	RANGE BAR	OUTPUT	FITTING	SUITABILITY	(BB) £ LIST EA
PELE691	EWPA007	2 WIRE	-0.5/7	4-20mA	FLARE	ALL INSTRUMENTS	238.99
PELE696	EWPA030	2 WIRE	0/30	4-20mA	FLARE	ALL INSTRUMENTS	117.49

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	22.75
CON210		VARISTOR VOLTAGE SPIKE SUPPRESSOR (25V AC)	IN PARALLEL	2.50



Expert Led

Led cold lighting room

The ceiling light EXPERT LED is the best solution for your cold room's lighting. It saves energy by using LED technology; furthermore the modern and thin design ensures the minimum space requirements.

CODE	MODEL	FUNCTION	LENGTH (MM)	LUMENS	SUPPLY	POWER ABSORBED	WEIGHT KG	(BB) £ LIST EA
CONP990	EXPERT LED60	LED LIGHTING UNIT	665	1750	230V AC	16W	0.65	93.82
CONP991	EXPERT LED120	LED LIGHTING UNIT	1157	3500	230V AC	32W	1.30	149.31

Suitable for NT & LT rooms. W93mm x H36mm. IP 65 rated, pre-wired with 1m cable. Intergrated drivers.



Expert series Cold room panels

CODE	MODEL	MAX COMP RATING	SUPPLY COMP	FAN	DEFROST	(BB) £ LIST EA
CONP500	ECP200 HP1 CR	5A	1PH	1PH	OFF CYCLE	151.58
CONP510	ECP200 HP2	10A	1PH	1PH	ELECTRIC	172.42
CONP513	ECP200 EXPERT	10A	1PH	1PH	ELECTRIC	124.20
CONP511	ECP200EXPERT - TWIN EVAP	10A	1PH	1PH	ELECTRIC	216.27
CONP515	ECP300/200 VDM	8A	1PH	1PH	ELECTRIC	308.49
CONP520	ECP300/200 VS	8A/PHASE	3PH	1PH	ELECTRIC	274.76
CONP525	ECP300 U VD6 EXPERT - EVAP MODEL	N/A	N/A	1PH	ELECTRIC	328.16
CONP526	ECP300 U VD12 EXPERT - EVAP MODEL	N/A	N/A	1/3PH	ELECTRIC	528.39
CONP532	ECP300/200VD PD	8A/PHASE	3PH	1PH	ELECTRIC	367.91
CONP533	ECP300 VD4 EXPERT	10A/PHASE	3PH	1PH	ELECTRIC	537.15
CONP534	ECP300 VD7 EXPERT	20A/PHASE	3PH	1/3PH	ELECTRIC	671.44
CONP535	ECP400/200VD PD	13A/PHASE	3PH	1PH	ELECTRIC	499.69
CONP540	ECP750/200VD PD	20A/PHASE	3PH	1PH	ELECTRIC	530.20
CONP545	ECP1000/200VD PD	25A/PHASE	3PH	1PH	ELECTRIC	652.32

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



Plus Expert series Datalogger

Allows up to three temperatures within the -45°C +99 °C range to be recorded at regular intervals. Temperatures stored and displayed for up to 1 year. Data transfer to PC via USB stick. Temperature probes included.

CODE	MODEL	FUNCTION	INPUT TYPE	(BB) £ LIST EA
CONP555	DL3	EXPERT SERIES 3 CHANNEL DATALOGGER	3 x NTC	323.71
CONP556	SD	SD CARD FOR DATA TRANSFER (OPTIONAL)	-	44.63
CONP557	SDR	SD CARD READER FOR PC (OPTIONAL)	-	43.20
CONP558	DL8	EXPERT SERIES 8 CHANNEL DATALOGGER	8 x NTC	404.80

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



ECP APE 03 Alarm system

Man trapped in cold room alarm kit: consisting of control unit with acoustic / visual warning, comes complete with buffer battery and luminous emergency in-room pushbutton.

CODE	MODEL	FUNCTION	VOL	(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	160.27

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

CONTROL PANELS



Expert GSM Alarm system

EXPERT GSM module sends an alarm phone call to report the anomaly of the cold room. It's able to send all the alarms of the cold room and also the power supply break.

CODE	MODEL	FUNCTION	VOLTAGE	(BB) £ LIST EA
CONP566	200GSM	DIAL OUT GSM ALARM MODEM	230V AC	132.02
CONP567	LBATT	LITHIUM BACK UP BATTERY	N/A	10.08

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 is an alarm. SIM Card required (not supplied).



dixell® XLR100 Coolmate Control panel

Advanced multifunction refrigeration controllers suitable for both heating and cooling applications. Temperature control can be performed on probe 1, probe 2 or by the difference between probe 1 and 2. Complete compressor and defrost management.

CODE	MODEL	MAX COMP RATING	SUPPLY COMP	FAN	DEFROST	(AJ) £ LIST EA
DIXL1500	XLR130 - COLDROOM PANEL OFF CYCLE DEFROST	20A	1PH	1PH	OFF CYCLE	136.48
DIXL1505	XLR170 - SINGLE OR TWIN EVAPORATOR	20A	1PH	1PH	ELECTRIC	148.84

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).



eliwell by Schneider Electric

IDPANEL 978 Control panel

Eliwell offers a series of transformers for all instruments having 32x74 front panel format with 12 Volt power supply.

CODE	MODEL	CONTROLLER	ISOLATOR	COMPRESSOR THERMAL RATING	DEFROST MAX	FAN MAX	AUX/ALARM	SUPPLY	£EA (BB) 1-4
PELX406	ID PANEL 978	ID PLUS 978	YES	5.5A - 8A	800W	800W	8A	230V 1PH	254.84
PELX407	ID PANEL 978	ID PLUS 978	YES	8A - 11A	800W	800W	8A	230V 1PH	254.84
PELX408	ID PANEL 978	ID PLUS 978	YES	3.7A - 5.5A	800W/PH	800W	8A	400V 3PH	262.00
PELX409	ID PANEL 978	ID PLUS 978	YES	5.5 - 6A	800W/PH	800W	8A	400V 3PH	262.00



EWRC 500 Control panel

The Coldface EWRC500LX manages the temperature control of a static or ventilated cold room.

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	110.75
PELX486	EWRC500 NT	NO	YES*	5	12A	230V 1PH	ELECTRIC / HOT GAS	126.54
PELX487	EWRC500 NT	YES	YES*	5	12A	230V 1PH	ELECTRIC / HOT GAS	137.35

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).



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 and 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	597.86
CONP405	20 amps 230v/1ph	3.0 amps 230v/1ph	2.0 amps 230v/1ph	6.0Kw 400v/3ph	625.46
CONP410	22 amps/ph 400v/3ph	5.0 amps 230v/1ph	4.0 amps 230v/1ph	9.0Kw 400v/3ph	741.35
CONP415	35 amps/ph 400v/3ph	5.0 amps 230v/1ph	4.0 amps 230v/1ph	12.0Kw 400v/3ph	954.74

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	1026.49
CONP425	35 amps/ph 400v/3ph	8.0 amps 230v/1ph	2 x 4.0amps 230v/1ph	2 x 6.0Kw 400v/3ph	1173.65

OFF CYCLE DEFROST, DOL 1 UNIT TO 1 EVAPORATOR

CONP430	20 amps 230v/1ph	3.0 amps 230v/1ph	2.0 amps 230v/1ph	-	570.27
CONP435	22 amps/ph 400v/3ph	5.0 amps 230v/1ph	4.0 amps 230v/1ph	-	653.05

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	1692.41
CONP445	60amps/ph 400v/3ph	4.0 amps/ph 400v/3ph	10.0 amps/ph 400v/3ph	40.0Kw 400v/3ph	1916.84

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	-	1442.23
CONP455	60amps/ph 400v/3ph	4.0 amps/ph 400v/3ph	10.0 amps/ph 400v/3ph	-	1701.61

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.

MONITORING SYSTEMS



dixell®

XWEB300D

Alarm and web based monitoring system

It is extremely well suited for 6 or 18 device installations such as petrol stations, mini-market, small storage centres. XWEB300D is the ideal solution for the remote assistance to the plant.

CODE	MODEL	DESCRIPTION	MAX. POINTS MONITORED	(AM) £ LIST EA
DIXL846	XWEB300D	AUTOMATIC MONITORING UNIT FOR SMALL SITES – DIN MOUNT	6	402.08
DIXL836	XWEB300D	AUTOMATIC MONITORING UNIT FOR SMALL SITES – DIN MOUNT	18	472.10



XWEB500D & XWEB500

Control and web based monitoring system

They are the ideal solution for medium installations up to 36 or 100 devices, such as petrol stations, supermarkets or storage centres. Their innovative and useful features make the instrument suitable for medium-large applications such as production and storage goods centres.

DIXL837	XWEB500D	AUTOMATIC MONITORING UNIT FOR SMALL SITES – DIN MOUNT	36	758.54
DIXL853	XWEB500	AUTOMATIC MONITORING UNIT FOR SMALL/MEDIUM SITES	100	959.05



XWEB3000 EVO

Control and web based monitoring system

XWEB3000 EVO is designed for larger installations with up to 247 devices such as supermarkets, hypermarkets or large storage and distribution centres as well as production and storage goods processing such as fast-food, restaurants and catering applications.

DIXL847	XWEB3000	FULL INTERNET BASED MONITORING UNIT FOR LARGE SITES	247	2443.25
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XWEB5000 EVO

Control and supervising web based system

XWEB5000 EVO is provided with a powerful supervisor engine suited for larger installations (with up to 247 devices) in the refrigeration, conditioning and building automation field, where it is necessary to program several different interactive actions that the controller has to perform.

DIXL845	XWEB5000	SUPERVISORY MONITORING UNIT WITH SYSTEM INTERACTIVE FEATURES INCLUDING COMPRESSOR RACK OPTIMIZATION*	247	3818.18
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XJM60D

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 XWEB83000 TO A LAN	XWEB3000	22.00
DIXL849	CAB/WEB/PC	CABLE FOR CONNECTING XWEB83000 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.

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.



by Schneider Electric

TelevisGo Monitoring system

TelevisGo is a device for monitoring, control and remote management of installations.

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	1790.51
TEVS601	TELEVIS GO R2 LE/30 KIT	AUTOMATIC MONITORING UNIT c/w RS485 TO RS232 SERIAL ADAPTER	30	1950.79
TEVS602	TELEVIS GO R2 LE/60 KIT	AUTOMATIC MONITORING UNIT c/w RS485 TO RS232 SERIAL ADAPTER	60	2161.44



TelevisGo Data & alarm modules

TelevisGo is a device for monitoring, control and remote management of installations.

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	115.33
TEVS105	EWTV240	DATA MODULE FOR DIRECT INPUTS FROM HUMIDITY SENSORS OR PRESSURE TRANSDUCERS. MAXIMUM NUMBER OF INPUTS PER MODULE = 3 (4-20mA)	DIRECT	126.49
TEVS107	EWTV270	ALARM MODULE FOR PLANT ALARMS MAXIMUM NUMBER OF INPUTS PER MODULE = 3(230V)	DIRECT	126.49
TEVS150	EWTV150	ADDRESS CONFIGURATOR TOOL FOR ABOVE MODULES		97.08

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

LKD200



LKD100

LKD100 and 200 Gas leak detector

The state-of-the-art LKD series gas sensors can detect a wide range of gases and refrigerants according to the model: R134a, R404a, NH3, R290, R507a, R600a, CO2.

CODE	MODEL	DESCRIPTION	SENSOR	IP RATING	APPLICATIONS	GAS	SUPPLY	(AE) £ LIST EA
PELX700	LKD110	LEAK MONITOR	IR	IP41	NT	CO2	12/24V	727.83
PELX701	LKD100	LEAK MONITOR	SC	IP41	NT	R134A	12/24V	361.74
PELX702	LKD100	LEAK MONITOR	SC	IP41	NT	R404A	12/24V	361.74
PELX703	LKD100	LEAK MONITOR	SC	IP41	NT	NH3	12/24V	361.74
PELX704	LKD100	LEAK MONITOR	SC	IP41	NT	R290	12/24V	361.74
PELX705	LKD100	LEAK MONITOR	SC	IP41	NT	R507A	12/24V	361.74
PELX706	LKD100	LEAK MONITOR	SC	IP41	NT	R22	12/24V	361.74
PELX707	LKD100	LEAK MONITOR	SC	IP41	NT	R600	12/24V	361.74
PELX708	LKD210	LEAK MONITOR	IR	IP66	LT	CO2	12/24V	727.83
PELX709	LKD200	LEAK MONITOR	SC	IP66	LT	R134A	12/24V	384.97
PELX710	LKD200	LEAK MONITOR	SC	IP66	LT	R404A	12/24V	384.97
PELX711	LKD200	LEAK MONITOR	SC	IP66	LT	NH3	12/24V	384.97
PELX712	LKD200	LEAK MONITOR	SC	IP66	LT	R290	12/24V	384.97
PELX713	LKD200	LEAK MONITOR	SC	IP66	LT	R507A	12/24V	384.97
PELX714	LKD200	LEAK MONITOR	SC	IP66	LT	R410A	12/24V	384.97
PELX715	LKD200	LEAK MONITOR	SC	IP66	LT	R600	12/24V	384.97

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.

MONITORING SYSTEMS | FAN SPEED CONTROLS

Monitoring system accessories

CODE	MODEL	DESCRIPTION	FOR 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.



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 pattress 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.



DIN NANO FSC

Fan Speed control

The DIN NANO FSC is a DIN rail electronic regulator which optimises the management of the condenser fans.

CODE	MODEL	ITEM	INPUTS	OUTPUTS	RELAYS	SUPPLY	(BB) £ LIST EA
CONP660	DIN NANO FSC	FAN SPEED CONTROLLER	4-20mA + NTC*	0-10V	2	230V AC	156.51
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.

FAN SPEED CONTROLS



dixell®

XV105D

Fan Speed control

Speed controller designed for single-phase A.C. motors up to 500w, with input for NTC, 4÷20ma. Chopped phase speed controllers to control pressure and temperature in refrigerating systems including cooling fans.

CODE	MODEL	CONTROL TYPE	LOAD	PHASE	INPUT	(A) £ LIST EA
DIXL820	XV105D	CONDENSER FANS (SPEED INCREASE ON TEMP. RISE)	1PH 2.5A	1	TEMPERATURE – USE NTC	49.98
DIXL825	XV105D	EVAPORATOR FANS (SPEED DECREASE ON TEMP. RISE)	1PH 2.5A	1	TEMPERATURE – USE NTC	49.98
DIXL830	XV105D	CONDENSER OR EVAPORATOR	1PH 2.5A	1	PRESSURE - 4-20mA	49.98

Always check motor is suitable for speed control.



FASEC 53

eliwell

by Schneider Electric

FASEC 33 / 43 / 53

Fan Speed control

FASEC 33 is an instrument designed to control speed and is particularly suitable for fan applications. Its standard version provides a triac output to drive a load up to 2.5 A. For larger condenser fans a 7A version is available.

FASEC 33

CODE	MODEL	CONTROL TYPE	LOAD	PHASE	INPUT	(A) £ LIST EA
PELE500	FASEC33	CONDENSER	2A	1	PTC INCLUDED	36.27
PELE505	FASEC33/7A	CONDENSER	7A	1	PTC INCLUDED	47.02
PELE510	FASEC43	EVAPORATOR	2A	1	PTC INCLUDED	46.21
PELE520	FASEC53	MANUAL	2A	1	MANUAL	43.96
PELE530	OCTAL MOUNTING BASE FOR FASEC (NOT REQUIRED FOR PELE505)					2.17

IMPORTANT: Always check motor is suitable for speed control.



SAGInoMIYA

RGE Model

Fan Speed control

Pressure sensing, direct mounted. To IP55

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 /ELECTROMECHANICAL CONTROLS



XGE Model

Fan Speed control

Suitable for controlling the speed of a condenser fan, chiller, freezer and air conditioning applications. Provides a stable condensing temperature all year round based on the refrigeration system head-pressure.

FAN SPEED CONTROL - AC FANS

CODE	MODEL	REFRIGERANT	RANGE (BAR)	LOAD (AMP)	TYPE	(AC) £ LIST EA
PSAG076	XGE-2C	R404A/407C/134A	8-18	1ph 3	CUT OFF	75.36
PSAG078	XGE-2M	R404A/407C/134A	8-18	1ph 3	MIN SPEED	75.36
PSAG080	XGE-4C	R404A/407C/134A	10-25	1ph 3	CUT OFF	75.36
PSAG082	XGE-6C	R410A	22-39	1ph 3	CUT OFF	75.36
PSAG084	XGE-4M	R404A/407C/134A	10-25	1ph 3	MIN SPEED	75.36
PSAG086	XGE-6M	R410A	22-39	1ph 3	MIN SPEED	75.36

FAN SPEED CONTROL - EC FANS **NEW**

CODE	MODEL	REFRIGERANT	RANGE (BAR)	OUTPUT	RATED CURRENT (MA)	(AC) £ LIST EA
PSAG090	XGE-2S-E	R404A/407C/134A	8-18	0-10	1	75.36
PSAG092	XGE-4S-E	R404A/407C/134A	10-25	0-10	1	75.36
PSAG094	XGE-6S-E	R410A	22-39	0-10	1	75.36
PSAG088	XGE-AE01	MOUNTING BRACKET ALL MODELS				6.20

Please check that your motor is suitable for speed control.

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



SAGInoMIYA

Type SYS

Pressure switches

Type SYS is standard model. Applicable for R410A (SYS – C140X0) to special order.

CODE	PART NO.	TYPE	RANGE (BAR)	RESET	(AC) £ LIST EA
MSAG502	SYS-C106X1C1A2	Standard LP	-50cm Hg - 6	AUTO	20.35
MSAG504	SYS-C110X1C1A2	Standard LP	1 - 10	AUTO	32.85
MSAG506	SYS-C103X1C1A2	Standard LP	-50cm Hg - 3	AUTO	20.35
MSAG512	SYS-C130X1C1A2	Standard HP	5 - 30	AUTO	33.25
MSAG520	SYS-C103X1M2C1A2	Standard LP	-50cm Hg - 6	MNL	30.80
MSAG525	SYS-C130X1M2C1A2	Standard HP	5 - 30	MNL	35.45



Type DYS

Pressure switches

Type DYS is dual pressure controls that is integrated with over pressure protection of the high pressure side and control of low pressure side of the refrigeration unit.

MSAG532	DYS-D306X1C1A2	Standard LP/HP	-50cmHg - 6, 8-30	AUTO, AUTO	28.45
MSAG534	DYS-D606X1C1A2	LP/HP, DS	-50cmHg - 6, 8-30	AUTO, AUTO	49.35
MSAG538	DYS-D606X1MC1A2	LP/HP, DS	-50cmHg - 6, 8-30	AUTO, MNL	53.25
MSAG542	DYS-D306X1MC1A2	Standard LP/HP	-50cmHg - 6, 8-30	AUTO, MNL	28.20

ELECTROMECHANICAL CONTROLS



Type SNS

Single function pressure control

High pressure cut out switches, auto and manual reset. Double bellows on HP side, PED and TÜV approved.

CODE	PART NO.	TYPE	RANGE (PSI)	RESET	(AC) £ LIST EA
MSAG235	SNS-2C130T	Standard HP	113-426	AUTO	42.57
MSAG236	SNS-2C130TM1	HP cutout	113-426	MNL	58.20

UL and low voltage/ampage models on request.



Type DNS

Dual pressure control

Dual high and low pressure switches in auto/manual reset configuration. Double bellows on HP side, PED and TÜV approved.

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.



Type ONS

Oil protection control

Provides dependable protection against major breakdown on pressure lubricated refrigeration compressors by guarding against low lubrication oil pressure.

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



Type WNS

Differential pressure control

For use on any application where the relationship between two pressures is critical to proper equipment operation.

CODE	PART NO.	TYPE	TIME DELAY (SECS)	RESET	(AC) £ LIST EA
MSAG266	WNS-C106X	DIFF	0	AUTO	75.28



Type LTB / ETB / HTB / FTB

Small pressure controls - High volume OEM item

Factory set pressure switch designed for use in refrigeration units of quantity production such as room air conditioner (heat pump), packaged air conditioner (heat pump), water chiller etc.

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

ELECTROMECHANICAL CONTROLS



Type ACB

Small pressure controls disc type - High volume OEM item

Designed to suit modern applications with its compact and various types of connections styles, such as air conditioning, automobile industries and others. Type ACB...High & medium pressure range. Flare has schrader depressor. Electrical connection: 1,500mm flying leads.

CODE	PART NO.	TYPE	SETTING	RESET	CONNECTION	(AC*AG) £ LIST EA
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.



Type FQS

Flow switch

For use on liquid lines such as water, ethylene glycol, or any non-corrosive fluid in chillers, pumps, condensers, boilers, etc. With S.P.D.T. contact mechanism.

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

Saginomiya accessories

CODE	PART NO.	DESCRIPTION	(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



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

ELECTROMECHANICAL CONTROLS



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



REX Microrex T31

ANALOG TIME SWITCH

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

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



Flash compact

CODE	MODEL	TYPE	MIN 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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ELECTROMECHANICAL CONTROLS

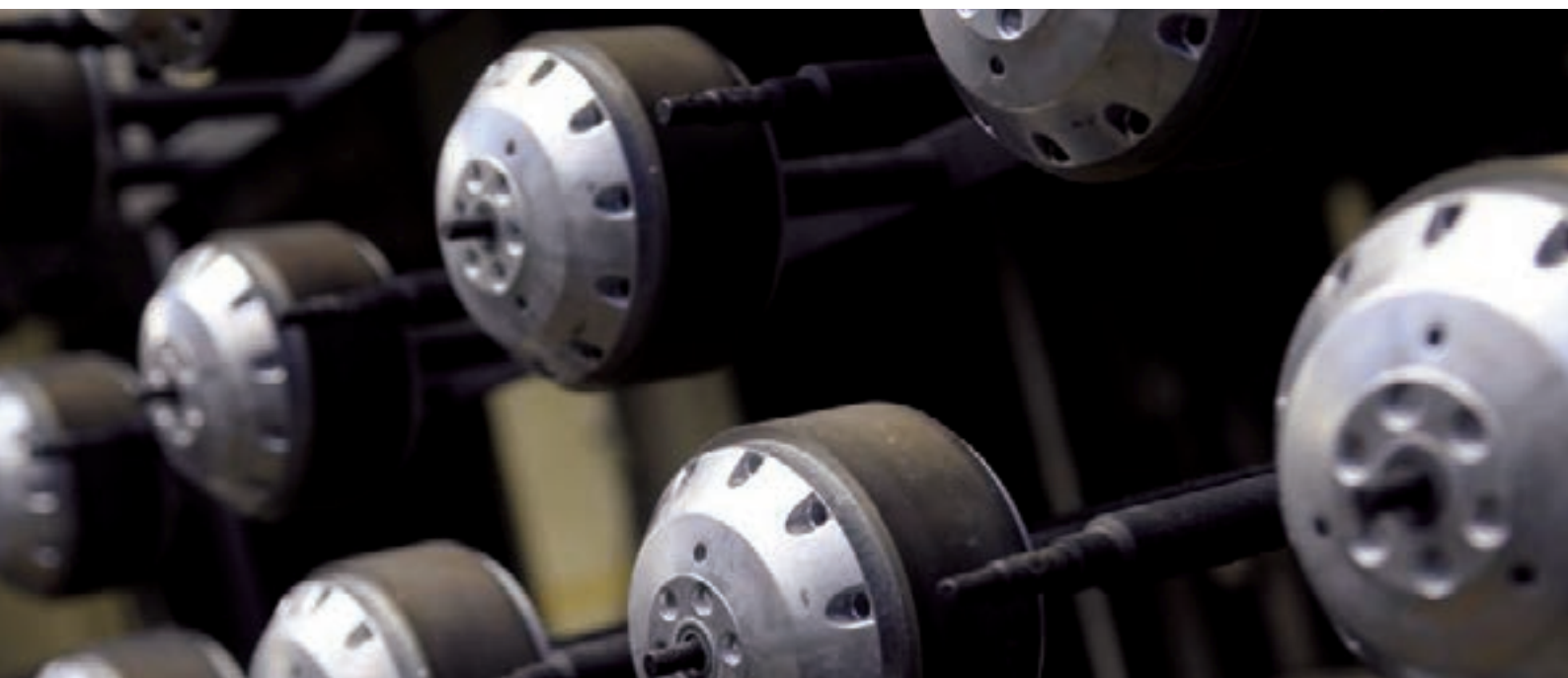


Service replacement thermostats

Flow switch

For use on liquid lines such as water, ethylene glycol, or any non-corrosive fluid in chillers, pumps, condensers, boilers, etc. With S.P.D.T. contact mechanism.

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



FANS AND PUMPS

FAN MOTORS



Pump house - PHF Multi fit

Universal fan motor

Universal, multi-fit fan motors, ideal for replacement in nearly all industrial and commercial refrigeration and ventilation equipment.

CODE	MODEL	OUTPUT NO. WATTS	(PA) £ LIST EA
FMT023	BU5	5	9.32
FMT053	BU7/10	10	9.77
FMT063	BU16	16	11.46
FMT073	BU25	25	16.03
FMT083	BU34	34	16.32

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



EUROMOTORS

Universal fan motor

The Euromotors universal fan motor has the following product features:

1,300 rpm 240 v 1 ph

Rotation anti-clockwise viewed from blade

3-hole front and back mounting with 18 mm base mount

Extended bolts to accept ring mount

FMT017	RA-5	5	14.08
FMT038	RA-7	7	14.65
FMT047	RA-10	10	15.44
FMT057	RA-16	16	17.61
FMT066	RA-25	25	22.87
FMT078	RA-34	34	25.64

SPECIAL MOTORS TO SUIT CERTAIN DANFOSS AND HUBBARD UNITS

FMT067	RA-25L*	25	29.73
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*Special motor for certain Danfoss/Hubbard units.



ebmpapst

Q Range

Fan motor - shaded pole

Multi-function design with 5w to 34w 1,300 rpm 230v.

CODE	MODEL	OUTPUT - NORMAL WATTS	(PZ) £ LIST EA
EBM010	M4Q45-BD01-75	5	13.19
EBM020	M4Q45-CA01-75	7	14.14
EBM030	M4Q45-CA03-75	10	16.12
EBM040	M4Q45-CF01-75	16	19.37
EBM050	M4Q45-EA01-75	25	22.22
EBM060	M4Q45-EF01-75	34	30.49



RM Range

Ring mounted motor assembly - suckers

Air over fan, over motor.

Ring mounted motor assembly sucker has the following product features:

1,300 rpm 230 v 1 ph

Painted steel rings

Aluminium blades

CODE	MODEL	BLADE DIAMETER (MM)	OUTPUT WATTS	(PA) £ LIST EA
FMR505	RM-6S	154	5	24.70
FMR510	RM-7S	172	5	24.93
FMR515	RM-8/5S	200	5	26.36
FMR518	RM-8/7S	200	7	27.29
FMR520	RM-9S	230	7	27.29
FMR525	RM-10S	250	10	27.84
FMR528	RM-10/16S	250	16	32.71
FMR530	RM-12/16S	300	16	38.94
FMR535	RM-12/25S	300	25	40.34
FMR538	RM-12/34S	300	34	42.41



Ring mounted motor assembly - blowers

Air over motor, over fan.

FMR506	RM-6B	154	5	24.70
FMR511	RM-7B	172	5	24.93
FMR516	RM-8B	200	5	26.36
FMR519	RM-8/7B	200	7	27.29
FMR521	RM-9B	230	7	27.29
FMR526	RM-10B	254	10	27.84
FMR529	RM-10/16B	254	16	32.71
FMR531	RM-12/16B	300	16	38.94
FMR536	RM-12/25B	300	25	40.34
FMR539	RM-12/34B	300	34	42.41



GR MOTORS

Fan motor - external rotor

The external fan motor is supplied with a run capacitor and all the models are single phase, sucker application. Three-phase and blower application available on request.

CODE	MODEL	BLADE DIA (MM)	AIR VOLUME M3/H	RPM	INPUT W	A	(PA) £ LIST EA
FMP010	C4M250SN	250	980	1,400	40	0.20	113.37
FMP015	C4M300SN	300	1,750	1,330	90	0.41	121.04
FMP025	C6M300SN	300	1,180	900	45	0.23	126.83
FMP028	C4M315S	315	2,100	1,350	110	0.50	133.03
FMP033	C4M350SN	350	2,650	1,320	120	0.57	141.35
FMP037	C4M350SN	350	2,650	1,350	140	0.65	145.75
FMP040	C6M350SN	350	1,800	720	60	0.30	136.42
FMP052	C4M400SN	400	3,000	1,300	130	0.58	148.78
FMP060	C6M400SN	400	2,050	870	65	0.28	146.01
FMP070	C6M450SN	400	3,000	870	100	0.45	159.48

FAN MOTORS



EMMEVI

Cross flow tangential fan - Single impeller

The TGA cross-flow blowers are used in: heating, refrigerating and air conditioning systems, automatic distributors, electro-medical devices, photocopying and microfilm reproducing machines, driers, extractor fans, various industrial applications.

CODE	MODEL	IMPELLER LENGTH (MM)	WATTS	(PF) £ LIST EA
FMC100	TGA-90	90	20	25.42
FMC103	TGA-120	120	20	25.16
FMC106	TGA-180	180	20	30.18
FMC109	TGA-240	240	20	35.23
FMC112	TGA-270	270	20	37.26
FMC115	TGA-300	300	30	39.78
FMC118	TGA-360	360	30	49.31
FMC121	TGA-420	420	30	56.29
FMC124	TGA-480	480	30	74.03

Cross flow tangential fan - Dual impeller

FMC206	TGD-180	180	30	51.85
FMC209	TGD-240	240	30	56.30
FMC212	TGD-270	270	30	60.30
FMC215	TGD-300	300	30	65.43
FMC218	TGD-360	360	30	71.80
FMC219	TGD-420	420	30	77.89
FMC221	TGD-480	480	30	84.32



OPEN FRAME

Complete motor, blade, bracket assembly.

CODE	MODEL	BLADE DIAMETER (MM)	WATTS	(PA) £ LIST EA
FMX010	AX09	96	15	13.59
FMX030	AX010/5	100	15	15.35
FMX050	AX013	130	15	16.01
FMX080	AX018/B	154	20	17.27
FMX100	AX017/C	170	30	19.75

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

OPEN FRAME – FROST FREE

With blade blower.

FMF100	NS10	102	10	12.60
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Axial square fan

The Sunon Axial square fan has a 240 volt complete with blade. Suitable for -10°C to +72°C.

CODE	MODEL	SIZE	(PA) £ LIST EA
FMA060	SF23080A-2083HSL	80 x 80 x 38mm	8.86
FMA260	DP201A-2123HST	120 x 120 x 38mm	7.70
FMA270	DP201AT-2122HST	120 x 120 x 25mm	9.35
FMA271	DP201AT-2122HBT	120 x 120 x 25mm	11.22
FMA600	FG-12 WIRE GUARD	120 x 120mm FANS	1.83
FMA605	A2-10 POWER LEAD	1m	1.09
FMA705	AF-120HBT (DP201A-2123HBT)	120 x 120 x 38mm	16.17
FMA710	AF-150 A2175HBT-TC	172 x 150 x 50mm	31.90
FMA720	AF-80 (SF23080A-2083HSL)	80 x 80 x 38mm	14.30
FMA725	SF23092A-2092HSL	92 x 92 x 25mm	9.41

HST = Sleeve bearing, terminal connection.

HSL = Sleeve bearing, flying leads.

HBT = Ball bearing, terminal connections.

HBL = Ball bearing, flying leads.



Axial fan motor - Motor sets

The outstanding features of axial fans are their low installation depth, low noise level and outstanding efficiency. Combined with GreenTech, the future-oriented EC Technology from ebm-papst, the axial fans become intelligent “energy-saving wonders” for an extremely wide range of applications.

CODE	MODEL	BLADE DIA (MM)	SPEED	PH	(PB) £ LIST EA
EBM498	A2E200-AF02-54	200	2-pole	1ph	POA
EBM528	A4E300-AA01-01	300	4-pole	1ph	POA
EBM531	A4E315-AC08-09	315	4-pole	1ph	POA
EBM535	A4E330-AB18-09	330	4-pole	1ph	POA



Axial fan motors with guard

EBM616	S4E300-AP26-30	300	4-pole	1ph	POA
EBM624	S4E330-AP18-30	330	4-pole	1ph	POA
EBM623	S4E350-AP12-68	350	4-pole	1ph	POA
EBM647	S4E400-AQ12-21	400	4-pole	1ph	POA
EBM653	S4E450-AP01-01	450	4-pole	1ph	POA



Centrifugal blower

Centrifugal fans with backward curved blades are used primarily for intake suction and do not require a scroll housing. They have high hydraulic efficiency.

EBM733	R2S133-AE17-05	133	2-pole	1ph	POA
EBM746	R2S133-AF50-18	133	2-pole	1ph	POA
EBM749	R2S175-AB56-01	175	2-pole	1ph	POA
EBM745	R2E190-AO26-05	190	2-pole	1ph	POA

FAN MOTORS

Compact ring mounted motor

Square, elliptical and round.

CODE	MODEL	BLADE DIA (MM)	SPEED	PH	(PB) £ LIST EA
EBM860	W2S130-AA03-01	130	2-pole	1ph	POA
EBM865	W2E142-BB01-01	142	2-pole	1ph	POA
EBM864	W2E143-AA09-01	143	2-pole	1ph	POA
EBM870	W2E200-HH38-01	200	2-pole	1ph	POA



AC Axial compact fans

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

CODE	MODEL	FRAME (MM)	SPEED	SUPPLY	(PB) £ LIST EA
PAP255	3656 (SF)	92	38	230.1	POA
PAP003	4650 N (SF)	120	38	230.1	POA
PAP004	4656 N (SF)	119	38	230.1	POA
PAP016	4656 TZ (S)	108 dia	37	230.1	POA
PAP005	4656 ZWR-903 (SF)	119	38	230.1	POA
PAP226	5656 S (SF)	135	38	230.1	POA
PAP275	5958 (SF)	127	38	230.1	POA
PAP303	8550 N (SF)	80	38	230.1	POA
PAP305	8556 N (SF)	80	38	230.1	POA
PAP451	9956 N (SF)	119	38	230.1	POA

SF = square frame, S = strut mounted



FB Range

Axial fan motor

Cost-efficient pressed-steel blades for use in short nozzles. Tried and tested fan with pressed-steel blades.

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



FC Range

Axial fan motor

Aerofoil section aluminium die-cast blade for use in aerodynamically designed air duct systems, available in full bell mouth plate design and cased design. High flexibility due to 100% speed controlled volume flow rate. Very smooth running and high durability due to dynamic balancing in 2 planes.

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

FAN MOTORS | BLADES AND BRACKETS



FE Range

Axial fan motor

Optimised for the food refrigeration sector, this series is being replaced by the FE2 series which is available in either AC or EC motor technology. Please enquire.

CODE	MODEL	BLADE DIA (MM)	SPEED	PH	(PC) £ LIST EA
ZHL352	FE045-4EQ (132141)	450	4-pole	1ph	POA
ZHL293	FE050-4EA (108307)	500	4-pole	1ph	POA
ZHL301	FE063-6EA (122706)	630	6 pole	1ph	POA
ZHL190	FE063-SDA (122745)	630	6-6 pole	3ph	POA
ZHL308	FE080-ADA (121159)	800	8-8 pole	3ph	POA
ZHL309	FE080-ADA (122871)	800	8-8 pole	3ph	POA
ZHL307	FE080-SDA (120816)	800	6-6 pole	3ph	POA
ZHL323	FE091-SDQ (106860)	910	6-6 pole	3ph	POA



ECM

Electrically commutated fan motor

The newest generation of ECM series motors are designed with advanced electronic control technology, which increases the efficiency of the motor.

CODE	MODEL	NOMINAL POWER	VOLTAGE	SPEED	(PA) £ LIST EA
FMT300	ECM7108A	2.5 - 7.5W	220-240V/50/60Hz	1,300	39.60
FMT305	ECM7112A	2.5 - 23.5W	220-240V/50/60Hz	1,300	44.00
FMT310	ECM7120A	2.5 - 32W	220-240V/50/60Hz	1,300	49.50



EUROMOTORS ITALIA

Fan brackets

Motor Supports for axial fans, subjected to galvanizing treatment in compliance with the RoHS directive.

CODE	MODEL	HEIGHT (MM)	(PA) £ LIST EA
FMB101	S56	56	1.08
FMB102	S72	72	1.08
FMB106	S84	84	1.31
FMB108	S109	109	2.28



VA Series

Fan blade suckers

Five blade aluminium impellers.

CODE	MM	DIAMETER	INCH	(PA) £ LIST EA
FAN550	154		6	2.29
FAN555	170		7	2.44
FAN560	200		8	2.71
FAN565	230		9	3.19
FAN570	250		10	3.54
FAN575	300		12	6.07



VP Series

Fan blade blowers

Five blade aluminium impellers.

FAN500	154		6	3.85
FAN505	170		7	4.26
FAN510	200		8	4.58
FAN515	230		9	5.34
FAN520	250		10	5.60
FAN525	300		12	6.07

PUMPS



Easy flow Pump

Tecnosystemi Easy flow pump has an innovative design with a reduced size of pump assembly and float housing.

CODE	MODEL	FLOW CAPACITY	MAX A/C UNIT CAP	DESCRIPTION	(TC) £ NET EA
TS-12170036	EF7	7 l/h	5 kw	Horizontal Connection	39.00
TS-12170093	EFV-7	7 l/h	5 kw	Vertical Connection	39.00
TS-12170037	EF11	11 l/h	10 kW	Horizontal Connection	45.00
TS-12170094	EFV-11	11 l/h	10 kW	Vertical Connection	45.00
TS-12170038	EF15	15 l/h	16 kW	Horizontal Connection	47.00
TS-12170046	EFV-15	15 l/h	16 kW	Vertical Connection	47.00

Easyflow pumps can be fitted into Eco Line trunking or can be used stand alone



Easy flow Pump kit

TS-12170042

Easy flow pump kit for high wall systems up to 10 kW cooling

74.00



Centrifugal condensate tank pumps

CODE	MODEL	FLOW CAPACITY	TANK CAPACITY	DESCRIPTION	(TC) £ NET EA
TS-12170027	TS120	120 l/h	0.2 l	TANK PUMP	39.00
TS-12170013	TS200	200 l/h	1.7 l	TANK PUMP	45.00
TS-12170012	TS380	380 l/h	1.7 l	TANK PUMP	59.00
TS-12170011	TS460	460 l/h	3.0 l	TANK PUMP	95.00



Condensate pump

CODE	PART NO.	NOMINAL CAPACITY (LITRES/HR)	CHECK VALVE	TYPE	(ZK) £ LIST EA
PUMP006	PH-2L	300	FITTED	LOW PROFILE MODEL	39.00
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



Hydron - DP30-S

CODE	MODEL	NOMINAL CAPACITY (LITRES/HR)	MAX DISCHARGE HEAD (METRES)	TYPE	(ZK) £ LIST EA
PUMP502	DP30-S	110	30	CABINET PUMP – LOW PROFILE	114.12

ELECTRICAL ACCESSORIES



SCHNEIDER ELECTRICS - Tesys K

Contactor and overload

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	C316FNA3N	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

CODE	MODEL	DESCRIPTION	(RJ) £ LIST EA
ELTR105	ICG-220	UNIVERSAL RELAY 1/12 TO 1/2 HP	6.31
ELTR115	PR-90	UNIVERSAL RELAY 1/2 TO 5 HP	20.20
ELTR110	PO-230	PUSH ON RELAY 1/12 TO 1/2 HP	6.31
ELTR145	RO-42	RELAY/OVERLOAD 1/4 TO 1/3 HP	11.03
ELTR150	RO-62	RELAY/OVERLOAD 1/6 TO 1/5 HP	11.03
ELTR120	PRO-42	PUSH-ON RELAY/OVERLOAD 1/4 TO 1/3 HP	11.03
ELTR125	PRO-62	PUSH-ON RELAY/OVERLOAD 1/6 TO 1/5 HP	11.03
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

Other capacitors available on request.

CONNECTORS AND TAPE

ELTR950	3/4" PVC	3/4" INSULATION TAPE	1.10
ELTR951	1" PVC	1" INSULATION TAPE	1.95
ELTR952	2" PVC	2" INSULATION TAPE	2.63



HEATED CONDENSATE TRAYS

ELTR807	31-220	CONDENSATE TRAY 1.30 LITRE (46oz) CAPACITY	56.61
ELTR808	70-220	CONDENSATE TRAY 1.30 LITRE (46oz) SELF REGULATING	85.71
ELTR810	75-220	CONDENSATE TRAY 2.10 LITRE (75oz) CAPACITY	98.90

ELECTRICAL ACCESSORIES

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	MODEL	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



SERVICE EQUIPMENT

REFRIGERATION TOOLS



TOOL KIT VALUE

Large carrier bag features a flaring tool, tube cutter, manifold gauge, digital clamp meter, tube expander, deburring tool and a ratchet spanner.

Code	(QH) £ LIST EA
TLQ915	189.99

SWAGING TOOLS



SP95

All in 1 swaging punch

CODE	PART NO.	SIZE	DESCRIPTION	(QA) £ LIST EA
TLT009	SP-95	1/4" – 5/8"	ALL IN ONE SWAGING PUNCH	9.54

FLARING TOOLS



195FC

Flaring tool

Flares seven sizes of tubing. Rugged forced steel slip-on yoke and hardened flaring bar.

TLT181	195FC	3/16" TO 5/8" INCLUSIVE	STANDARD SEVEN SIZE FLARING TOOL	60.20
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275FS

Imperial wide range flaring kit

Compact kit holds two flaring bars, one yoke for flaring 9 tube sizes.

TLT290	275FS	1/8" TO 3/4" INCLUSIVE	FLARING TOOL & SCREW TYPE SWAGER	164.78
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TF-VET19F

Flaring tool

TLQ953	TF-VET19F	1/4" TO 3/4" INCLUSIVE	TEDDINGTON ELECTRIC FLARING TOOL INC. CASE	235.00
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BENDING SPRINGS



102F04 / 102F06 / 102F08 / 102F10 / 102F12

Bending tool

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



364FHA04 / 364FHA06 / 364FHA08 / 364FHA10 / 364FHA12
Imperial straight handle benders

CODE	PART NO.	SIZE	DESCRIPTION	(QA) £ LIST EA
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



TODAY'S TOOLS - TTB-1
Imperial straight handle benders

TLQ636	TTB-1	BENDS 1/4", 5/16", 3/8" TUBE	PLASTIC TUBE BENDER	15.00
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ROTHENBERGER
Metal tube bender

TLR120	9.0614	BENDS 1/2", 5/8", 3/4", 7/8" TUBE	METAL TUBE BENDER	82.36
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HAND HYDRAULIC BENDER



HB251
Portable tube bender for copper tubing

TLT130	HB251	*BENDS 3/8" TO 7/8" INCLUSIVE	HANDTYPE CROSSBOW BENDER	462.98
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*Half hard and soft copper.



HB451
Portable tube bender for copper tubing

TLT132	HB451	*BENDS 1/4" TO 7/8" INCLUSIVE	HYDRAULIC CROSSBOW BENDER	621.38
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*Half hard and soft copper.

TUBE CUTTERS



TC1000
Imperial tube cutter

TLT010	TC1000	CUTS 1/8" TO 1.1/8" TUBE	IMPERIAL STANDARD TUBE CUTTER	35.66
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REFRIGERATION TOOLS

TUBE CUTTERS



TC1050
Tube cutter

CODE	PART NO.	SIZE	DESCRIPTION	(OA) £ LIST EA
TLT013	TC1050	CUTS 1/8" TO 5/8" TUBE	MINI TUBE CUTTER	35.66



TF-VTC19
Mini cutter

TLQ956	TF-VTC19	CUTS 1/8" TO 3/4" TUBE	TEDDINGTON MINI CUTTER	3.85
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TF-VTC28B/TF-VTC42
Cutter

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



TF-VFT808IS
Set including cutter and case

TLQ951	TF-VFT808IS	3/16" TO 3/4" INCLUSIVE	TEDDINGTON SET INC. TUBE CUTTER & CASE	45.00
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TUBE EXPANDERS



TEC-7
Complete kit in metal case for inch size tubing.
Contains: Tube expander, reamer and tube cutter.

TLT361	TE-7	3/8" TO 1.3/8" TUBE	TUBE EXP. SET, SEVEN HEADS & CARRY CASE	561.88
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TE-6-01
Expander tool only

TLT120	TE-6-01	SUITS ALL HEADS	EXPANDER TOOL ONLY	135.89
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H-3/8" to H-1.5/8"

Individual heads for ITE tube expanders

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

REFRIGERATION TOOLS



TF-100BP

Set including case and deburrer

CODE	PART NO.	SIZE	DESCRIPTION	(QA) £ LIST EA
TLQ970	TF-100BP	3/8" TO 1.1/8" TUBE	TEDDINGTON SET INCL. CASE & DEBURRER	201.50

MANIFOLDS



TF-VMG-2-R134A

Two way manifold set R134/404A/22, includes case and lines.

CODE	PART NO.	DESCRIPTION	(QH) £ LIST EA
TLQ935	TF-VMG-2-R134A	TEDDINGTON 2 WAY MANIFOLD SET R134A/404A/22 INCL. CASE & LINES	59.50



TF-VMG-2-R410A

Two way manifold set R410A/407C/22/134A, includes case and lines.

TLQ937	TF-VMG-2-R410A	TEDDINGTON 2 WAY MANIFOLD SET R410A/407C/22/134a INCL. CASE & LINES	85.00
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41652 / 41332 / BRUTE

Manifold with gauges

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



QCS/QCA

Quick couplers

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

REFRIGERATION TOOLS

CHARGING HOSES



TLQ21983 / TLQ21986 / TLQ29986 / TLQ29485

Hose set

CODE	PART NO.	SIZE	DESCRIPTION	(QA) £ LIST EA
TLQ21983	RYB	36" SET	YELLOW JACKET BLUE, RED, YELLOW HOSE SET	38.48
TLQ21986	RYB	72" SET	YELLOW JACKET BLUE, RED, YELLOW HOSE SET	56.95
TLQ29986	RYB	72" SET	YELLOW JACKET BLUE, RED, YELLOW HOSE SET C/W SEAL RIGHT FTG	88.07
TLQ29485	RYB	60" SET	YELLOW JACKET BLUE, RED, YELLOW HOSE SET C/W BALL VALVE	84.30

AUTO CLIMATE - 70083 / 10234

Hoses

TLS329	70083	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



ITE TOOLS - 16C / 17C / 26C / 27C / 19020 / E560

Hoses

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	5/16" MFL X 5/16" FFL	QUICK RELEASE HOSE COUPLER - STRAIGHT R410A	29.39
TLT705	27C	5/16" MFL X 5/16" FFL	QUICK RELEASE HOSE COUPLER - ELBOW R410A	34.94
TLQ19020	19020	1/4"	HOSE GASKETS (PACK OF TEN)	4.10
TLT479	E560	60"	VACUUM HOSE - YELLOW 3/8"	32.58

PRESSURE AND COMPOUND GAUGES



49063 / 49064 / 49131 / 49132 / 49135 / 49136

TLQ49063	49063	68mm	PRESSURE GAUGE - R134A/R404A/R407C (BAR)	17.50
TLQ49064	49064	68mm	COMPOUND GAUGE - R134A/R404A/R407C (BAR)	17.50
TLQ49131	49131	80mm	RED PRESSURE GAUGE - R134A/R404A/R407C (BAR/PSI)	20.89
TLQ49132	49132	80mm	BLUE COMPOUND GAUGE - R134A/R404A/R407C (BAR/PSI)	20.89
TLQ49135	49135	80mm	RED PRESSURE GAUGE - R410A (BAR/PSI)	20.89
TLQ49136	49136	80mm	BLUE COMPOUND GAUGE - R410A (BAR/PSI)	20.89

VACUUM PUMPS



TF-VE260N / TF-VE260ND

VE N SERIES - Dual Stage

Forced oil cycling system

Integrated body structure

Big sight glass for monitoring oil level

CODE	PART NO.	SIZE	DESCRIPTION	(QH) £ 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
TLQ910	TF-HPAV	0.33 LITRES	VACUUM PUMP OIL - TEDDINGTON	2.85

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



YJ93567 / 93092

Superevac pump

Isolation valve for oil changes without losing vacuum in the system
Built-in vacuum indicator gauge
Wide-mouth oil reservoir port for easier cleaner filling.

CODE	PART NO.	SIZE	DESCRIPTION	(QA) £ LIST EA
TLQ93567	YJ93567	6 CFM TWO STAGE	VACUUM PUMP	504.00
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.

DIGITAL CHARGING AND RECOVERY SCALE



TF-VES100B

Electronic charging scale

Accurate measurement
Weight up to 100 KG
Anti-collision
High precision valve
Automatic shut-off
Recycling weight
Can be set - convenient for operation.

CODE	PART NO.	SIZE/CAPACITY	DESCRIPTION	(QH) £ LIST EA
TLQ930	TF-VES100B	100kg	TEDDINGTON PROGRAMMABLE SCALES, INCL. CASE	180.00



WS-055

Weighing and recovery scale

WS 150

High capacity weighing scale

CODE	PART NO.	SIZE/CAPACITY	DESCRIPTION	(QA) £ LIST EA
TLT605	WS-055	50kg	ELECTRONIC CHARGING/RECOVERY SCALE	272.13
TLT601	WS-150	120kg	HIGH CAP. COMPUTER CHARGING SCALE	265.74

RECOVERY, RECYCLING AND RECHARGING



YJ-LTE

The smallest, lightest, most powerful unit in its class. Don't let the small size fool you. The YJ-LTE™ Refrigerant Recovery System is packed with the features you need at a price your budget can handle. Like a built in purge circuit which eliminates the need for external equipment and makes for easy clearing at the end of the job. And superior condenser performance which means the recovery tank stays cooler for a longer period of time, allowing you to recover more refrigerant without high-pressure cut-out. And it's simple to operate, too, with a single valve, single gauge control panel.

CODE	PART NO.	SIZE/CAPACITY	DESCRIPTION	(QH) £ LIST EA
TLQ95733	YJ-LTE	CFCs, HFCs HCFCs, R410A	RECOVERY UNIT 1/2 HP	733.82

REFRIGERATION TOOLS



TF-VRR24L-R32

Mini recovery unit

Economical Recovery Workhorse – New blow molded case. Simple easy to use design.

Recovers all commonly used refrigerants (CFC, HCFC, HFC including R 410A).

Built under the ISO 9001 - CE Certification and is compliant to Directive 2002/95/EC - Restriction of the Use of certain Hazardous Substances in Electrical and Electronic Equipment (RoHS)

CODE	PART NO.	SIZE/CAPACITY	DESCRIPTION	(QH) £ LIST EA
TLQ921	TF-VRR24L-R32	CFCs, HFCs HCFCs, R410A	TEDDINGTON RECOVERY UNIT 1 HP	650.00

Always use a filter between the recovery unit and the inlet hose.

AUTOMOTIVE



QVA103 / QVA105

Coupler

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



Coupler

TLQ41337		R134a	**HIGH SIDE COUPLER	38.41
TLQ41338		R134a	**LOW SIDE COUPLER	38.41

LEAK DETECTOR



TF-DDFV2

Hand held leak detector



EXTRA

Automatic halogen leak detector

Detects all halogenated refrigerants CFC, HFC and HCFC. Tricolour visual display. Ideal for refrigeration, air conditioning and automotive A/C maintenance.

CODE	PART NO.	RANGE	DESCRIPTION	(QH) £ LIST EA
TLQ995	TF-DDFV2	DETECTS 3 GRAMS PER YEAR	TEDDINGTON DETECTOR HFC, HCFC, CFC, INCL. CASE	65.00
TLT554	XTRA	DETECTS 2.8 GRAMS PER YEAR	HEATED DIODE, CFC, HCFC, HFC (ITE)	306.16



TODAY'S TOOLS

Leak detector

CODE	PART NO.	RANGE	DESCRIPTION	(QA) £ LIST EA
TLQ448			LEAK DETECTOR AEROSOL SPRAY	4.95
TLQ452			LEAK DETECTOR NON AEROSOL	10.80

REFRIGERATION TOOLS

THERMOMETER



DT-1630
Digital thermometer



Digi-alarm
Digital thermometer

CODE	PART NO.	FUNCTION	DESCRIPTION	(QA) £ LIST EA
TLT522	DT-1630	-50°C TO +300°C	HAND HELD DIGITAL THERMOMETER	32.65
TLQ69239	DIGI-ALARM	-50°C TO +200°C	DIGITAL HAND HELD WITH ALARMS	27.72

BRAZING EQUIPMENT



TODAY'S TOOLS - TC504
Brazing torch



ROTHENBERGER
MapPro Cylinder

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

PROTECTION KIT

BLYGOLD COIL DIY Protection kit

The coil protection kit can protect the vulnerable unit from corrosion and deterioration, thus preventing energy loss and an early replacement.

CODE	DESCRIPTION	(QA) £ LIST EA
TL604	DIY CORROSION PROTECTION KIT – SUFFICIENT FOR 1 SMALL EVAPORATOR COIL	59.00

SYSTEM SEALANTS



PRIMALEC

TLQ712	AC2944A SUPER-SEAL 1.5-5 TONS	42.95
TLQ717	AC2947A SUPER-SEAL UP TO 1.5 TONS	32.55
TLQ718	AC2948A SUPER-SEAL ADVANCED 5 TONS +	47.30
TLQ730	AC2973A DRY R MOISTURE ELIMINATOR, ACR 60 DROPS	36.75

REFRIGERATION TOOLS

REFRIGERATION PLIERS



ITE TOOLS - VG10

Locking vice grip pinch-off plier



ITE TOOLS - VG12

Locking piercing plier

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



ITE TOOLS - 105FF

Pinch off tool imperial

ITE TOOLS - VG12ING

Replacement spare needle and gasket for VG12

TLT346	105FF	1/4", 3/8", 1/2"	PINCH OFF TOOL	40.76
TLT350	VG12ING	1/4"	REPLACEMENT NEEDLE & GASKET FOR VG12	11.90

VALVE CORE REMOVERS



ITE TOOLS - MV3816 / MV3900

Core removal tools



YELLOW JACKET - 18975

4 in 1 ball valve tool

TLT004	MV3816	FITS 1/4"	VALVE CORE REMOVE TOOL	9.52
TLT028	MV3900	FITS 1/4"	VALVE CORE REMOVE TOOL	66.22
TLQ18975	18975	1/4"	4 IN 1 BALL VALVE TOOL	49.85

FIN COMB



AUTOCLIMATE - 2503-112

Fin Comb



ITE TOOLS - WB-1

Coil fin brush

CODE	PART NO.	SIZE	DESCRIPTION	(QA) £ LIST EA
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



ITE TOOLS - MIR-1

Circular telescoping pocket mirror

ITE TOOLS - MIR-5

Oval telescoping pocket mirror

TLT018	MIR1	32mm DIAMETER	40mm TELESCOPIC INSPECTION MIRROR	9.52
TLT023	MIR5		OBLONG INSPECTION MIRROR	5.54

IDENTIFICATION LABELS

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

Self adhesive labels 60 x 45mm, colour coded. Ester oil label has space to write type.

ACID TEST KITS

PARKER - TA-1

CODE	PART NO.	APPLICATION	DESCRIPTION	(QA) £ LIST EA
TLQ604	TA-1	ALL OILS	ONE SHOT ACID TEST KIT	13.13

REPAIR KITS

ITE TOOLS - L11575

Heat seal stick

CODE	PART NO.	SIZE	DESCRIPTION	(QA) £ LIST EA
TLT090	L11575	11.7 GRAMS	HEAT SEAL STICK	21.15

CAPILLARY TUBE TOOLS

ITE TOOLS - CTG-2

Capillary tube gauge

ITE TOOLS - CTP-1

Capillary tube cutter

TLT002	CTG-2	MULTI-SIZE	CAPILLARY TUBE GAUGE	57.00
TLT001	CTP-1		CAPILLARY TUBE CUTTER	11.11

CLEANING PRODUCTS

CODE	DESCRIPTION	(QA) £ LIST EA
Refrigeration		
TLQ340	CLEAN & SAFE 5 LITRE BOTTLE CSCC1	£15.99
TLQ342	CLEAN & SAFE AEROSOL SPRAY COILCLNR CSCC	£7.50
TLQ417	EASY FOAM NON ACID CON CLEANER 600ML	£7.92
TLQ420	GREASE GOBBLER CONDENSER SOLVENT 400ml	£7.92
TLQ421	EASY CLEAN UNIVERSAL COIL CLEANER 600ML	£7.92
TLQ427	EASY CARE EVAP CLEAN & DISINFECT 600 ML	£7.92
TLQ423	EASY FINISH DIFF/CASE CLEANER 600ML	£7.92
Air conditioning		
FRI007	FRIONETT PAN STRIPS (12 PER BOX)	£50.86
FRI030	FRIONETT ACTIV RTU TRIGGER SPRAY 0.75L	£9.35
FRI031	FRIONETT ACTIV (CONCENTRATE) 5L POLYCAN	£19.60
FRI032	FRIONETT ACTIV FOAM 500ML AEROSOL	£9.35
FRI033	FRIONETT ACTIV ONE SHOT 150ML AEROSOL	£10.85
TLQ568	SMELLY JELLY AIR COND FRESHNER WITH HOOK	£5.22

HOSES



QUADRA DN2

Refrigeration Hoses

The Quadra DN2 flexible thermoplastic capillary hose, in two colours orange and black, represent the most efficient and developed system for the connection of pressure gauges, pressure switches and pressure test points.

QUADRA DN4

Refrigeration Hoses

The Quadra DN4 flexible thermoplastic capillary hose, in two colours orange and black, are the ideal solution for equalizing and oil return lines.

The Quadra DN4 hoses have an internal diameter of 4 mm and therefore they can substitute copper rigid tubing of OD 6 mm or 1/4".

QUADRA DN6

Refrigeration Hoses

The Quadra DN6 flexible thermoplastic hose is the latest QUADRA development in the world of flexible hoses for air conditioning and refrigeration systems.

The Quadra DN6 is characterized by an internal diameter of 6 mm, and therefore they can substitute copper rigid tubing of OD 8 mm or 5/16".

CODE	PART NO.	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

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.



QUADRA DN2

Fittings - crimped

FOR 2MM (0780C)

CODE	PART NO.	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
HOFT123	XPB2C4	TEE 2xCRIMP 1x 1/4 FEMALE FLARE	9.43
HOFT124	XPB2C7	TEE 1xCRIMP 2x FEMALE FLARE 90 DEG	9.23
HOFT125	XPB2C3	TEE 1xCRIMP 2x1/4 FEMALE FLARE	9.69
HOFT126	XPA2C2	FITTING 3xCRIMP 1x 1/4 FEMALE FLARE	11.51
HOFT127	XPA2C3	FITTING 2xCRIMP 2x1/4 FEMALE FLARE	11.91
HOFT128	XPA2C4	FITTING 2xCRIMP 2x FEMALE FLARE	12.63
HOFT129	XPA2C5	FITTING 1xCRIMP 3x FEMALE FLARE	12.23



QUADRA DN4
Fittings - crimped

FOR 4MM (0789C)

CODE	PART NO.	DESCRIPTION	(FC) £ LIST EA
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 DN4
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 DN6
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
Hand plier



QUADRA
Hydraulic plier

CODE	PART NO.	DESCRIPTION	(FB) £ LIST EA
HOPK040	RXA007	HAND PLIER FOR QUADRA 2MM	148.05
HOPK050	RXA005	HYDRAULIC PLIER FOR QUADRA 4MM & 6MM	1,429.89



QUADRA
Electric crimping tool



QUADRA
Hose cutting tool

CODE	PART NO.	DESCRIPTION	(FB) £ LIST EA
HOPK065	RXA011	ELECTRIC CRIMPING PLIERS DN2/DN4/DN6	POA
HOPK020	RXA004	HOSE CUTTING TOOL	13.88

HOSES | COMPRESSOR OILS



285

Hose and fittings

Parker's 285 hose was designed to deliver consistency and reliability with a constant working pressure of 500 PSI in all sizes for air conditioning systems.

CODE	PART NO.	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	20821-6-6R	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.



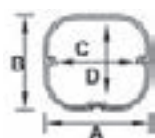
COMPRESSOR OILS

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

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

TRUNKING



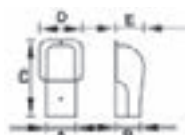
ECO LINE STANDARD TRUNKING - 2M LENGTH

CODE	MODEL	A	B	C	D	E	(TC) £ NET EA
TS-E11120060	T60-EXC	60	52	51	47	-	5.95
TS-E11120072	T72-EXC	72	64	60	59	-	7.50
TS-E11120010	T100-EXC	98	73	86	68	-	10.95



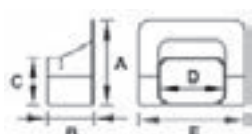
ECO LINE - TRUNKING PIPE RETAINER

TS-11125016	BLOCK T-60						0.40
TS-11125017	BLOCK T-72						0.45
TS-11125018	BLOCK T-72						0.50



ECO LINE - LINE WALL COVER

TS-E11124160	TM60-EXC	66	56	165	96	68	2.50
TS-E11124172	TM72-EXC	78	68	185	108	78	2.75
TS-E11124110	TM100-EXC	104	77	220	137	92	3.50



ECO LINE CORNER COVER

TS-E11122110	TA60-EXC	110	60	56	67	125	2.25
TS-E11122120	TA72-EXC	114	62	68	79	125	2.50
TS-E11122130	TA100-EXC	121	83	78	104	125	3.00

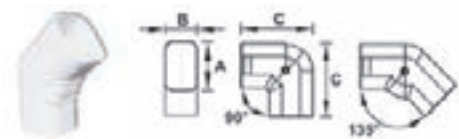


ECO LINE FLAT ELBOW

TS-E11120160	CP60-EXC	66	55	101	-	-	2.25
TS-E11120172	CP72-EXC	78	68	118	-	-	2.50
TS-E11120100	CP100-EXC	104	77	152	-	-	3.25



INSTALLATION ACCESSORIES



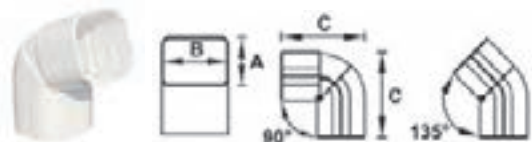
FLAT JOINTED ELBOW

CODE	MODEL	A	B	C	D	E	£ NET EA
TS-E11121111	CPS60-EXC	66	55	110	-	-	2.75
TS-E11121110	CPS72-EXC	78	68	130	-	-	3.50



LINE ELBOW

CODE	MODEL	A	B	C	D	E	(TC) £ NET EA
TS-E11120260	CA60-EXC	66	55	84	-	-	2.00
TS-E11120272	CA72-EXC	78	68	98	-	-	2.25
TS-E11120210	CA100-EXC	104	77	113	-	-	2.75



JOINTED ELBOW

TS-E11123111	CAS60-EXC	55	66	104	-	-	2.50
TS-E11123110	CAS72-EXC	68	78	120	-	-	3.00



COUPLING SLEEVE

TS-E11121060	MG60-EXC	66	55	50	-	-	1.75
TS-E11121072	MG72-EXC	78	68	50	-	-	2.00
TS-E11121100	MG100-EXC	104	77	50	-	-	2.25



WALL FLANGE

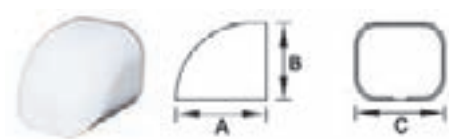
TS-E11122060	RM60-EXC	64	56	105	97	-	1.50
TS-E11122072	RM72-EXC	78	68	120	112	-	1.75
TS-E11122100	RM100-EXC	104	77	167	143	-	2.00



PIPE OUTLET END FITTING

TS-E11124060	TS60-EXC	66	55	75	30	60	1.95
TS-E11124072	TS72-EXC	78	68	90	35	67	2.25
TS-E11124100	TS100-EXC	104	77	110	35	67	2.50

INSTALLATION ACCESSORIES



END CAP

CODE	MODEL	A	B	C	D	E	(TC) £ NET EA
TS-E11122170	TC60-EXC	65	55	64	-	-	2.00
TS-E11122180	TC72-EXC	76	66	76	-	-	2.25
TS-E11122190	TC100-EXC	102	77	105	-	-	2.50



T-BRANCH

TS-E11123060	DT60-EXC	66	55	166	121	38	6.00
TS-E11123072	DT72-EXC	78	68	200	152	40	9.75
TS-E11123100	DT100-EXC	104	77	200	152	-	10.00



REDUCER

TS-E11123080	RC72/60-EXC	80	72	60	-	-	3.50
TS-E11123105	RC100/72-EXC	80	100	72	-	-	3.95

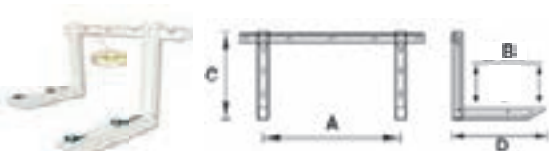
FITTINGS



STRAIGHT FITTINGS FOR HOSES

CODE	DESCRIPTION	(TC) £ NET EA
TS-11126366	16mm STRAIGHT CONNECTOR	1.50
TS-11126367	18mm STRAIGHT CONNECTOR	1.50
TS-11126368	20mm STRAIGHT CONNECTOR	1.50

OUTDOOR UNIT WALL BRACKETS



BRACKET WITH CROSSBAR MOD.

CODE	MODEL	MAX LOAD (KG)	A	B	C	D	E	(TC) £ NET EA
TS-111000071	SGL 100	100	750	355	400	430	-	16.00
TS-11000090	SGL 140	140	750	386	400	475	-	19.50
TS-111000136	TSMC 210	210	750	520	480	600	-	34.00

INSTALLATION ACCESSORIES

OUTDOOR UNIT MOUNTING BLOCKS



FLOOR MOUNTING BLOCKS

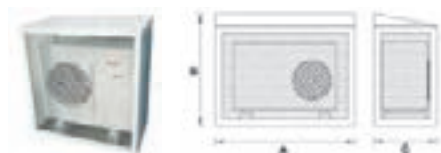
CODE	LENGTH (MM)	MAX LOAD (KG)	LOAD CAPACITY	DESCRIPTION	(TC) £ NET EA
TS-11105031	330	330	90KG	MOUNTING BLOCK	3.25
TS-11105032	400	400	170KG	MOUNTING BLOCK	3.95
TS-11105033	470	470	180KG	MOUNTING BLOCK	4.25
TS-11105036	1000	1000	300KG	MOUNTING BLOCK	6.25



CAPS FOR MOUNTING BLOCKS

TS-11105002	ALL	0.50
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SECURITY CAGES



SECURITY CAGE FOR OUTDOOR UNIT

CODE	MODEL	A	B	C	D	E	(TC) £ NET EA
TS-12000029	-	1000	700	450	-	-	195.00
TS-12000030	-	1100	1100	600	-	-	293.00
TS-12000031	-	1100	1400	600	-	-	275.00

ADJUSTABLE DEFLECTOR FOR INDOOR UNITS



CODE	LENGTH	A	B	C	D	E	(TC) £ NET EA
TS-12000040	850	260	26	50	-	-	65.00
TS-12000041	1050	260	26	50	-	-	75.00

LINE TAP VALVES



CODE	PART NO.	LINE SIZE	(AA) £ LIST EA
CWAG100	QT-1	1/4", 5/16", 3/8"	4.55
CWAG101	QT2	1/2", 5/8"	3.85
LTG030	BPV31	1/4", 5/16", 3/8"	2.99



INDUSTRIAL

INDUSTRIAL

Industrial/heavy commercial control valves



Type A8A

Commercial Pressure regulator

The A8 has a unique modular design that allows the commercial pressure regulator to be soldered into the line without disassembly, yet provides full access for disassembly, cleaning and servicing from the top only.

CODE	TYPE	SIZE		FLOW COEF	KV	(BC) £ LIST EA
		PORT	CONNECTION			
RFL0300	A8A	3/8"	5/8"	1.5	1.28	£244.86
RFL0304	A8A	3/8"	1.1/8"	1.5	1.28	£259.88
RFL0306	A8A	5/8"	5/8"	3.3	2.82	£244.86
RFL0310	A8A	5/8"	1.1/8"	3.3	2.82	£259.88
RFL0314	A8A	7/8"	7/8"	5.1	4.37	£259.88
RFL0316	A8A	7/8"	1.1/8"	5.1	4.37	£259.88
RFL0342	A81	1.1/8"	1.1/8"	8.1	6.93	£338.42
RFL0344	A81	1.1/8"	1.3/8"	8.1	6.93	£375.38
RFL0350	A81	1.3/8"	1.1/8"	11.3	9.67	£338.42
RFL0352	A81	1.3/8"	1.3/8"	11.3	9.67	£375.38
RFL0354	A81	1.3/8"	1.5/8"	11.3	9.67	£400.79
RFL0356	A81	1.3/8"	2.1/8"	11.3	9.67	£441.21
RFL0900	A82	1.5/8"	1.5/8"	18.0	15.39	£549.78
RFL0904	A82	2.1/8"	2.1/8"	27.0	23.08	£660.66
RFL0908	A82	2.5/8"	2.5/8"	36.0	30.77	£711.48

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.

Type A8AS

Commercial Pressure regulator

With electric shut-off regulator.

"S" feature regulating when energized; closed when de-energized.

Standard voltage: 240 volts, 50 Hertz and DIN coil.

RFL0384	A8AS	3/8"	1.1/8"	1.5	1.28	£426.20
RFL0386	A8AS	5/8"	5/8"	3.3	2.82	£411.18
RFL0388	A8AS	5/8"	7/8"	3.3	2.82	£426.20
RFL0390	A8AS	5/8"	1.1/8"	3.3	2.82	£426.20
RFL0394	A8AS	7/8"	7/8"	5.1	4.37	£426.20
RFL0396	A8AS	7/8"	1.1/8"	5.1	4.37	£426.20
RFL0422	A81S	1.1/8"	1.1/8"	8.1	6.93	£502.43
RFL0424	A81S	1.1/8"	1.3/8"	8.1	6.93	£542.85
RFL0432	A81S	1.3/8"	1.3/8"	11.3	9.67	£542.85
RFL0434	A81S	1.3/8"	1.5/8"	11.3	9.67	£567.11
RFL0909	A82S	1.5/8"	1.5/8"	18.0	15.39	£674.52
RFL0913	A82S	2.1/8"	2.1/8"	27.0	23.08	£786.56
RFL0917	A82S	2.5/8"	2.5/8"	36.0	30.77	£883.58

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.

Type A8AB

Commercial Pressure regulator

With wide opening feature.

"B" feature wide open when energized; regulating when de-energized.

Standard voltage: 240 volts, 50 Hertz and DIN coil.

CODE	TYPE	SIZE		FLOW COEF		(BC) £ LIST EA
		PORT	CONNECTION	CV	KV	
RFL0468	A8AB	5/8"	7/8"	3.3	2.82	£470.09
RFL0474	A8AB	7/8"	7/8"	5.1	4.37	£470.09
RFL0476	A8AB	7/8"	1.1/8"	5.1	4.37	£470.09
RFL0502	A81B	1.1/8"	1.1/8"	8.1	6.93	£470.09
RFL0512	A81B	1.3/8"	1.3/8"	1.3	9.67	£586.74
RFL0514	A81B	1.3/8"	1.5/8"	11.3	9.67	£609.84
RFL0918	A82B	1.5/8"	1.5/8"	18.0	15.39	£811.97
RFL0922	A82B	2.1/8"	2.1/8"	27.0	23.08	£926.31
RFL0926	A82B	2.5/8"	2.5/8"	36.0	30.77	£978.29

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.



Type A8AL

Differential pressure regulator

"L" feature maintains a set pressure difference between inlet and outlet.

RFL0540	A8AL	3/8"	5/8"	1.5	1.28	£314.16
RFL0546	A8AL	5/8"	5/8"	3.3	2.82	£314.16
RFL0554	A8AL	7/8"	7/8"	5.1	4.37	£328.02
RFL0556	A8AL	7/8"	1.1/8"	5.1	4.37	£328.02
RFL0582	A81L	1.1/8"	1.1/8"	8.1	6.93	£406.56
RFL0590	A81L	1.3/8"	1.1/8"	11.3	9.67	£406.56
RFL0592	A81L	1.3/8"	1.3/8"	11.3	9.67	£443.52
RFL0594	A81L	1.3/8"	1.5/8"	11.3	9.67	£468.93
RFL0945	A82L	1.5/8"	1.5/8"	18.0	15.39	£620.24
RFL0949	A82L	2.1/8"	2.1/8"	27.0	23.08	£729.96
RFL0953	A82L	2.5/8"	2.5/8"	36.0	30.77	£779.63

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

Type A8ABL

Differential pressure regulator

Differential pressure regulator, with wide opening feature.

"BL" feature wide open when energized; regulating pressure differential when de-energized.

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

RFL0626	A8ABL	5/8"	5/8"	3.3	2.82	£538.23
RFL0628	A8ABL	5/8"	7/8"	3.3	2.82	£538.23
RFL0630	A8ABL	5/8"	1.1/8"	3.3	2.82	£538.23
RFL0634	A8ABL	7/8"	7/8"	5.1	4.37	£538.23
RFL0636	A8ABL	7/8"	1.1/8"	5.1	4.37	£538.23
RFL0662	A81BL	1.1/8"	1.1/8"	8.1	6.93	£608.69
RFL0664	A81BL	1.1/8"	1.3/8"	8.1	6.93	£646.80
RFL0670	A81BL	1.3/8"	1.1/8"	11.3	9.67	£608.69
RFL0672	A81BL	1.3/8"	1.3/8"	11.3	9.67	£646.80
RFL0674	A81BL	1.3/8"	1.5/8"	11.3	9.67	£671.06
RFL0676	A81BL	1.3/8"	2.1/8"	11.3	9.67	£716.10
RFL0954	A82BL	1.5/8"	1.5/8"	18.0	15.39	£852.39
RFL0958	A82BL	2.1/8"	2.1/8"	27.0	23.08	£963.27
RFL0962	A82BL	2.5/8"	2.5/8"	36.0	30.77	£1,012.94

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

INDUSTRIAL

Industrial/heavy commercial control valves



Type A80E
Outlet (Crankcase) pressure regulator
Externally equalised

CODE	TYPE	SIZE		FLOW COEF		(BC) £ LIST EA
		PORT	CONNECTION	CV	KV	
RFL0706	A8AOE	5/8"	5/8"	3.3	2.82	£261.03
RFL0714	A8AOE	7/8"	7/8"	5.1	4.37	£274.08
RFL0742	A810E	1.1/8"	1.1/8"	8.1	6.93	£368.45
RFL0750	A810E	1.3/8"	1.1/8"	11.3	9.67	£368.45
RFL0752	A810E	1.3/8"	1.3/8"	11.3	9.67	£381.15
RFL0754	A810E	1.3/8"	1.5/8"	11.3	9.67	£407.72
RFL0756	A810E	1.3/8"	2.1/8"	11.3	9.67	£451.61
RFL0927	A820E	1.5/8"	1.5/8"	18.0	15.39	£634.10
RFL0931	A820E	2.1/8"	2.1/8"	27.0	23.08	£746.13
RFL0932	A820E	2.1/8"	2.5/8"	27.0	23.08	£795.80

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.



Type A9
Hot gas bypass regulator

A9 outlet pressure regulators utilize a compact design unique to the Refrigerating Specialties line of regulators, and are applied most typically as hot gas bypass or receiver pressure control valves. Four port sizes ranging from 3/8" (9mm) through 1-1/8" (28mm) are available.

RFL0208	A9	3/8"	5/8"	0.42	0.36	£215.99
RFL0210	A9	5/8"	5/8"	1.40	1.20	£215.99
RFL0214	A9	7/8"	7/8"	2.67	2.30	£291.06
RFL0216	A9	1.1/8"	1.1/8"	3.58	3.10	£375.38

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.

Type A9E
Hot gas bypass regulator

The A9E is an "externally equalized" outlet pressure regulator and is usually applied as a hot gas bypass regulator.

RFL0219	A9E	3/8"	5/8"	0.42	0.36	£215.99
RFL0220	A9E	5/8"	5/8"	1.40	1.20	£215.99
RFL0224	A9E	7/8"	7/8"	2.67	2.30	£291.06
RFL0226	A9E	1.1/8"	1.1/8"	3.58	3.10	£375.38



Type A9S / A9SE
Hot gas bypass regulator

A9S and A9SE regulators utilize a molded water resistant Class "H" solenoid coil with a general purpose coil and electric shut-off.

"S" feature regulating when energized; closed when de-energized. "SE" externally equalised.

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

RFL0229	A9S	3/8"	5/8"	0.42	0.36	£383.46
RFL0237	A9SE	3/8"	5/8"	0.42	0.36	£383.46
RFL0230	A9S	5/8"	5/8"	1.40	1.20	£383.46
RFL0238	A9SE	5/8"	5/8"	1.40	1.20	£383.46
RFL0234	A9S	7/8"	7/8"	2.67	2.30	£457.38
RFL0242	A9SE	7/8"	7/8"	2.67	2.30	£457.38
RFL0236	A9S	1.1/8"	1.1/8"	3.58	3.10	£542.85
RFL0244	A9SE	1.1/8"	1.1/8"	3.58	3.10	£542.85

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.



Level transmitter wire type

CODE/MODEL	PROBE RANGE/LENGTH	CONNECTION SIZE	VOLTAGE	OUTPUT	REFRIGERANT	£ LIST
HBLT-WIRE-2	600-4000mm	3/4 NPT	24v AC/DC	4-20mA	HFC's, NH3	£851.00
HBLT-WIRE-6	600-4000mm	3/4 BSPP	24v AC/DC	4-20mA	HFC's, NH3	£851.00

Refrigerant level control in external column. Can be stand alone level control or used to operate a modulating valve such as Parker PEV. Suitable as a service replacement for RTK, E+H, HANSEN, DANFOSS, PARKER
A new IP (Ice proof) version now available for low temperature applications, minus 50 deg C.



HB PRODUCTS

Level transmitter rod type

HBLC-CO2-***	200-3000mm	3/4 NPT/BSPP	24v AC/DC	4-20mA	CO2	POA length dependent
HBLC-HFC-***	200-3000mm	3/4 NPT/BSPP	24v AC/DC	4-20mA	HFC's	
HBLT-A1	280-3000mm or 6"-120"	3/4 NPT/1"BSPP	24v AC/DC	4-20mA	NH3	

Refrigerant level control. Can be column mounted or directly inserted in vessel. With or without built-in digital display.



HB PRODUCTS

Level transmitter controller

HBLT-C1	Panel mount	n/a	24v AC/DC	4-20mA	HFC's,NH3,CO2	£453.00
HBLT-C1-ENC	Self contained enclosure	n/a	100-240v AC	4-20mA	HFC's,NH3,CO3	£705.00

Standalone controller for above level probes if PLC is not used.



HB PRODUCTS

Single point switches

HBSR-PNP/NO	53mm	3/4NPT/BSPP	24v AC/DC	n/a	Liquid HFC's, NH3	£182.90
HBSR-PNP/NC	53mm	3/4NPT/BSPP	24v AC/DC	n/a	Liquid HFC's, NH3	£182.90
HBSO-PNP/NO	53mm	3/4NPT/BSPP	24v AC/DC	n/a	Oil all refrigerants	£182.90
HBSO-PNP/NC	53mm	3/4NPT/BSPP	24v AC/DC	n/a	Oil all refrigerants	£182.90
HBSC2-PNP/NO	53mm	3/4NPT/BSPP	24v AC/DC	n/a	Liquid CO2	£244.90
HBSC2-PNP/NC	53mm	3/4NPT/BSPP	24v AC/DC	n/a	Liquid CO2	£244.90

Single point liquid/oil switches. SSR high voltage available for all the above, IP (ice proof) available for liquid switches.



HB PRODUCTS

Dual phase switch

HBLN-NH3/Oil	150mm	3/4NPT & 1/2 & 3/4BSPP	24v DC	n/a	Oil/Liquid NH3	£472.50
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A dual phase switch that detects both oil and NH3 in vessels & evaporators.



HB PRODUCTS

Oil controller

HBOC/C	115mm	1/2 & 3/4NPT, 11/8UNF	24v AC/DC	n/a	Oil all refrigerants	£387.50
V100	n/a	1/4BSPP	24v AC/DC	n/a	Oil all refrigerants	£144.90

Programmable switch to control oil return via V100 solenoid, high pressure CO2 solenoids also available.



HB PRODUCTS

Ammonia oil return controller

CODE/MODEL	PROBE RANGE/LENGTH	CONNECTION SIZE	VOLTAGE	OUTPUT	REFRIGERANT	£ LIST
HBOR/C	115mm	3/4NPT/BSPP	24v AC/DC	n/a	Oil NH3	£390.60
E1 (ejector)	n/a	n/a	n/a	n/a	NH3 oil/liquid	£340.00

Specifically designed to monitor/regulate oil return from large NH3 systems via V100 & E1 ejector.



HB PRODUCTS

Ammonia compressor protector

HBCP-1.5	150mm	3/4NPT/BSPP	24v AC/DC	PNP-1A	HFC's, NH3	£1,071.00
HBCP-3	300mm	1" NPT/BSPP	24v AC/DC	PNP-1A	HFC's, NH3	£1,134.00

An instantaneous sensor that detects minute liquid droplets in the compressor suction and stops the compressor(s), less than 1 second reaction.



HB PRODUCTS

Vapour quality sensor DX

HBDX-R-2	190mm	3/4NPT/BSPP	24v AC/DC	4-20mA	HFC's, NH3	£1,102.50
HBDX-R-3	300mm	1"NPT/BSPP	24v AC/DC	4-20mA	HFC's, NH3	£1,134.00
HBDX-IN-3	300mm	DN25,40 & 50	24v AC/DC	4-20mA	HFC's, NH3	£1,745.00

Uniquely regulates superheat in direct expansion evaporators & PHX's to minimise energy consumption.
A self contained, programmable version also available which can control a modulating valve such as Parker PEV.



HB PRODUCTS

Vapour quality sensor flooded

HBXOVC-R-2	190mm	3/4NPT/BSPP	24v AC/DC	4-20mA	HFC's, NH3	£1,102.50
HBXOVC-R-3	300mm	1"NPT/BSPP	24v AC/DC	4-20mA	HFC's, NH3	£1,134.00
HBXOVC-INS-3	300mm	DN25,40 & 50*	24v AC/DC	4-20mA	HFC's, NH3	£1,745.00

This is specifically designed for flooded/pump overfeed plants and controls the amount of liquid carryover thus significantly improving system capacity & efficiency.
A self contained, programmable version also available which can control a modulating valve such as Parker PEV.
* Larger, bespoke versions available to special order.



HB PRODUCTS

Defrost controller

HBDF-10 MK2	10m	n/a	24v AC/DC	4-20mA	n/a	£630.00
HBDF-20 MK2	20m	n/a	24v AC/DC	4-20mA	n/a	£646.00
HBDF-30 MK2	30m	n/a	24v AC/DC	4-20mA	n/a	£661.50

A unique, programmable sensor designed to optimize defrost control and offer defrost energy savings of up to 40%.
MK2 version comes with temperature sensing defrost termination override.



HB PRODUCTS

Ammonium carbamate sensor

HBAC-NC	3/4NPT/BSPP	24v AC/DC	4-20mA	NH3/CO2	£513.50
HBAC-NO	3/4NPT/BSPP	24v AC/DC	4-20mA	NH3/CO2	£513.50

Instantaneous plant shut down in the event of NH3/CO2 cross contamination (ammonium carbamate formation).



HB PRODUCTS

Ammonia leak detector

HBGS	n/a	n/a	24v DC	4-20mA	NH3	£705.00
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Stand alone gas leak detector that can be monitored/controlled from plant PLC. Built-in visual LED display (3 levels) + manual re-set.



HB PRODUCTS

Ammonia/Glycol monitor

CODE/MODEL	PROBE RANGE/LENGTH	CONNECTION SIZE	VOLTAGE	OUTPUT	REFRIGERANT	£ LIST
HBPH-2W-9	100mm	1" NPT	20-28v DC	4-20mA	NH3/Brine	£891.50
HBPH-C1-ENC	Self contained enclosure	n/a	90-240v AC	4-20mA	NH3/Brine	£771.75

This clever unit monitors and manages small leakages of ammonia into glycol. Ideal for large plants.



HB PRODUCTS

Temperature sensor

HBTS-PT100	60 & 90mm	1/4NPT/BSPP	n/a	4-20mA	HFC's,NH3,CO2	£125.00
HBTS-PT1000	60 & 90mm	1/4NPT/BSPP	n/a	4-20mA	HFC's,NH3,CO2	£125.00

Temperature range minus 50 to plus 130 degrees C, 150 Bar max pressure.



HB PRODUCTS

Pressure transducers

HBPS-25-1/4	15mm	1/4NPT/BSPP	9-32v DC	4-20mA	HFC's,NH3,CO2	£105.00
HBPS-200-1/4	15mm	1/4NPT/BSPP	9-32v DC	4-20mA	HFC's,NH3,CO2	£155.00

Two pressure ranges, 0-25 & 0-200 bar, fast reacting (less than 1 second).

The above is an abridged selection from the HB Products range.
Various accessories & spare parts also available.
Please check our website for the full catalogue & detailed data sheets.
Discount pricing & OEM packages available on request.



HERL

Butt weld stop valve

CONNECTION SIZE	TYPE	PART NUMBER	LIST PRICE £	TYPE	PART NUMBER	LIST PRICE £
DN15	ANGLE	HRL-T6F-50	£94.38	STRAIGHT	HRL-T5F-50	£98.01
DN20	ANGLE	HRL-T6F-54	£100.43	STRAIGHT	HRL-T5F-54	£101.64
DN25	ANGLE	HRL-T6F-58	£116.16	STRAIGHT	HRL-T5F-58	£121.00
DN32	ANGLE	HRL-T6F-62	£133.10	STRAIGHT	HRL-T5F-62	£141.57
DN40	ANGLE	HRL-T6F-66	£159.72	STRAIGHT	HRL-T5F-66	£165.77
DN50	ANGLE	HRL-T6F-70	£179.08	STRAIGHT	HRL-T5F-70	£212.96
DN65	ANGLE	HRL-T6F-74	£279.51	STRAIGHT	HRL-T5F-74	£304.92
DN80	ANGLE	HRL-T6F-78	£352.11	STRAIGHT	HRL-T5F-78	£373.89
DN100	ANGLE	HRL-T6F-82	£406.56	STRAIGHT	HRL-T5F-82	£464.64
DN125	ANGLE	HRL-T6F-86	£626.78	STRAIGHT	HRL-T5F-86	£732.05
DN150	ANGLE	HRL-T6F-90	£847.00	STRAIGHT	HRL-T5F-90	£1,052.70
DN200	ANGLE	HRL-T6F-94	£1,639.55	STRAIGHT	HRL-T5F-94	£1,781.12

Stock valves c/w seal cap (hand wheel available) suitable for HFC's, NH3. Other refrigerants on request.
Larger sizes up to DN350 available to order.
Regulating, check, stop/check & strainers also available



HERL

Oil drain valve

CONNECTION SIZE	TYPE	PART NUMBER	LIST PRICE £
DN15	Weld	HRL-T38VE-02	188.76
DN15	Flanged	HRL-T38VE-55	355.74

INDUSTRIAL

Industrial electronic valves



HERL

Single pressure relief valve T21.1

CONNECTION SIZE	TYPE	PART NUMBER	LIST PRICE £
1/2" x 1" BSPP (G)	Screwed	HRL-T21-***	£220.22
1/2" x 1" MPT	Screwed	HRL-T21-***	£220.22
DN15/25	Flanged	HRL-T21F-***	£392.04
DN25/25	Flanged	HRL-T21F-***	£392.04

HERL

Single pressure relief valves T23.1V

DN15/25	Flanged	HRL-T23V-***	£516.67
DN20/25	Flanged	HRL-T23V-***	£516.67
DN25/32	Flanged	HRL-T23V-***	£531.19
DN32/40	Flanged	HRL-T23V-***	£611.05
DN40/50	Flanged	HRL-T23V-***	£671.55
DN50/65	Flanged	HRL-T23V-***	£680.02



HERL

Dual pressure relief valves T19F

DN15/25	Flanged	HRL-T19FGF-***	£1,398.76
DN25/25	Flanged	HRL-T19FGF-***	£1,756.92



HERL

Dual pressure relief valves T24V

DN15/25	Flanged	HRL-T24VGF-***	£1,618.98
DN20/25	Flanged	HRL-T24VGF-***	£1,629.26
DN25/32	Flanged	HRL-T24VGF-***	£1,737.56
DN32/32	Flanged	HRL-T24VGF-***	£1,914.22
DN32/40	Flanged	HRL-T24VGF-***	£2,167.11
DN40/50	Flanged	HRL-T24VGF-***	£2,307.47
DN50/65	Flanged	HRL-T24VGF-***	£2,383.70

*** Customer to specify set pressure.

For correct sizing contact Thermofrost.

All above relief valves back pressure dependant, back pressure independent available on request.

Stainless steel versions of Herl valves also available.

TEMPERATURE CONVERSION CHARTS

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
-43.8	-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	608
-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: $1^{\circ}\text{C} = 1.8^{\circ}\text{F}$; $1^{\circ}\text{F} = 0.56^{\circ}\text{C}$
 $^{\circ}\text{C} = 5/9 (^{\circ}\text{F} - 32)$; $(\frac{9}{5}^{\circ}\text{C}) + 32$

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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TO BE COOLED OR TO BE FROZEN, THAT IS THE QUESTION

A new family of low cost 230V pre-programmed controllers from Dixell that come complete with probes. Exclusively distributed in the UK by Thermofrost Cryo and selected partners.

NEW X-COOL



For all HT applications

NEW X-FREEZE



For all MT and LT applications

COMMERCIAL REFRIGERATION

CATALOGUE • 2017-18

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, KDScroll and Hermetic low noise 36 months, JCC cellar cooling 36 months, KD Cellar Cooling 24 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 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 manufacturers decision on the warranty claim will be conclusive and final.
8. E & OE accepted. Thermofrost and it's 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.



BIRMINGHAM

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F: 0121 622 7268

E: birminghamsales@thermofrostcryo.co.uk

Enquiries

T: 0121 622 6325



LONDON

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West Norwood
London SE27 0DA

Sales

T: 020 8655 7600

F: 020 8761 8081

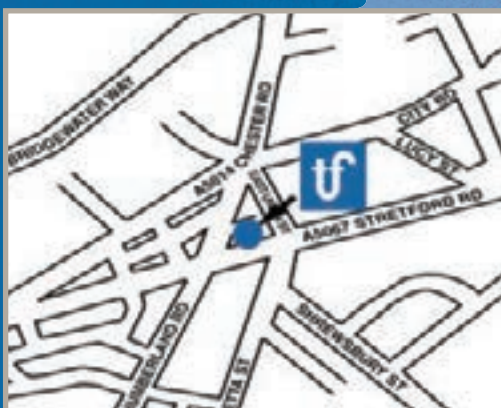
E: sales@thermofrostcryo.co.uk

Enquiries

T: 020 8655 7601

Accounts

T: 020 8655 7635



MANCHESTER

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Manchester M16 9AF

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T: 0161 872 2000

F: 0161 872 9929

E: manchestersales@thermofrostcryo.co.uk

Enquiries

T: 0161 872 1501

OPENING TIMES

From Monday to Friday

Birmingham 8.30 am to 5.00 pm • London 8.30 am to 5.00 pm • Manchester 8.30 am to 5.30 pm

KEY CONTACTS

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