



PRODUCT GUIDE

The Refrigeration & Air Conditioning Specialists



www.flynn-refrigeration.com



FLYNN

REFRIGERATION

Welcome to Flynn Refrigeration

Flynn Refrigeration supply refrigeration and air conditioning products and services to the marine sector. Our key product range includes compressors, air conditioning systems, air conditioning units, refrigerated air dryers, spare parts, tools and a wide range of products that are used to control these systems.

With more than 30 years' experience, we have a good understanding of the requirements of ship owners, fleet managers and trading companies within the industry.

Having worked with a wide range of clients, we have developed good working relationships with management and Chief Engineers of many vessels and can respond to all levels of requirements. Our highly-focused team have a firm understanding of customer needs and can deal with urgent situations when required.

This product guide has been designed with vessel operators in mind. It includes key information such as part numbers and part manuals for the most commonly used compressors and products - and because we understand the importance of having the resources and information available to quickly and accurately select the parts required to ensure that the refrigeration and air conditioning on board is kept in good running order and regular maintenance is carried out, enquiry forms can be easily downloaded from within the product guide.

Quality Assurance

We adhere to ISO 9001 standards to maintain our level of service, and regularly monitor our performance to ensure customers are kept up to date from initial enquiry, through to quotation and order confirmation stages.

We are dedicated to supplying the highest quality products at the most competitive price, and our friendly team are committed to providing an excellent service throughout the process.

We are also ISO 14001 accredited and are committed to reducing our environmental impact through sourcing environmentally-friendly packaging and minimising the amount of plastic we consume.

Global Partnerships

Over the years, we have built strong, lasting partnerships with representatives and agents around the world.

Combined with our bespoke solutions and a friendly, adaptive team, these relationships enable us to connect with customers in many different countries - improving communication, response and delivery times.

To find out more, please visit our website www.flynn-refrigeration.com



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Section A

Open compressors and spares



Compressors

We can supply a vast range of refrigeration and air conditioning compressors and spares for all leading brands. Within this product guide, we have provided detailed information on commonly used compressors and spares, which we hope will assist with your selection.

Additionally, we can provide compressors and spares for the following:

BITZER																	
0	I	II	III	IV	V	VI	VII	2T.2	2N.2	4T.2	4P.2	4N.2	4H.2	4G.2	6H.2	6G.2	6F.2
BOCK																	
F1	F2	F3	F4	F5	F6	F13	F14/1166	F14/1366	F16/1751	F16/2051							
CARRIER																	
5F20	5F30	5F40	5F60	5H40	5H60	5H80	5H120	5H46	5H66	5H86	5H126						
SABROE																	
CM024	CM026	CM028	SMC104S	SMC104L	SMC106S	SMC106L	SMC108S	SMC108L	SMC112S	SMC112L	SMC116S						
BLISSFIELD																	
CB-993	CA-991	CD-994	CC-992	CE-995	CG-99216	CH-9954	CJ-99182	CK-99302	CM-9921								
COPELAND																	
CB65	CB125	CB205	CB355	CB500	CB1605	2CK34	2CK38	2CK46	2CK56								
2CC63	2CC68	2CC75	4CC63	4CC68	4CC75	6CC68	6CC75	8CC68	8CC75								
DEBICA																	
3W92S	6W92S	10W92S															
DORIN																	
OVT-A	OVTM-A	1HVS	2GVS	3LVS	41VSR+VSM	51VSR+VSM	62VS	67VS	80VS								
DUNHAM BUSH																	
205DCFN	255DHF/N	266DCFN	316DHF/N	307DCFN	357DHF/N												
358DCFN	408DHF/N	409DCFN	509DHF/N	511DCFN	511DHF/N												
FRASCOLD																	
C180	C190R	C190	C350	C810	C950	C1100	C2900	C3300									
GRAM																	
HC2075	HC4075	HC6075	HC8075	HC6100	HC8100	HC8125											
GRASSO																	
AC480	AC580	AC680	AC780	AC880	AC1080	AC1280	AC1680	RC46	RC66								
RC86	RC29	RC49	RC69	RC211	RC311	RC411	RC611	RC911	RC1211								
HALL																	
VA54	VB54	VC54	VD92	VE92	VF92	VG92											
MYCOM																	
SE50	SE70	SE100	4C	6C	8C	62C	4K	6K	8K	12K	4WA	6WA	8WA				
42WA	62WA	4L	6L	8L	4WB	6WB	8WB	12WB	16WB	42WB	62WB	124WB	SWF62				
STAL																	
P22	P24	P2	P3	P4	P5	P6	P8	P10	P12	U2	U4	U6	U8				
YORK																	
F35S/FS32	F62S/FS62	F92S/FS92	RS/RW42	RS/RW62	RS/RW82												
RS/RW122	RS/RW162	RS/RW44	RS/RW64	RS/RW124	RS/RWW164												

Bitzer III-Y

Complete with suction and discharge stop valves, and charged with Ester Oil

PART NO	ITEM NO.	DESCRIPTION	QTY PER COMPRESSOR
310001-01	6	Eccentric Shaft	1
374018-02	7	Shaft Seal Assembly Complete HFC	1
372003-01	21	O Ring	1
361802-01	22	Sight Glass	1
325000-23	26	Thrust Spring	1
386002-01	27	Ball	1
302003-01	38	Eccentric	1
315107-07	39	Key for Eccentric Complete	1
315107-08	43	Key for Eccentric Complete	1
302239-04	48	Connecting Rod / Piston Assembly	2
372403-01	55	Gasket Body / Cylinder	1
304050-04	61	Valve Plate Assembly Complete	1
372503-01	74	Gasket Cylinder / Valve Plate	1
372603-01	75	Gasket Valve / Cylinder Head	1
361315-02	84	Discharge Shut-off Valve Complete	1
362000-02	91	Suction Strainer	1
361315-10	93	Suction Shut-off Valve Complete	1
372800-04	101	Gasket Set Complete	1

We always recommend the use of genuine compressor spares. However, we can offer aftermarket spares, if required. Please state this when sending your enquiry.

When possible, please also provide the full name plate including the make, model and serial number, so that we can offer the latest version available.

We can offer a range of drive belts, couplings and pressure gauges. Please refer to index for page numbers.

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Bitzer IV-Y

Complete with suction and discharge stop valves, and charged with Ester Oil

PART NO	ITEM NO.	DESCRIPTION	QTY PER COMPRESSOR
311104-09	2	Bearing Bush	1
311104-06	3	Bearing Bush	1
311104-07	3+4	Bearing Bush	2
310002-01	6	Eccentric Shaft	1
374018-03	7	Shaft Seal Assembly Complete	1
312003-15	21	O Ring	1
361802-02	22	Sight Glass	1
320501-02	25	Spring, Compensating Disc	1
325000-24	26	Thrust Spring	1
386002-02	27	Ball	1
372310-02	28	Gasket (Body / Back Cover)	1
302014-01	38	Eccentric	1
315107-09	39	Key for Eccentric Complete	1
315107-10	43	Key for Eccentric Complete	1
302239-05	48	Connecting Rod / Piston Assembly	1
382300-35	54	Piston Ring	1
372404-01	55	Gasket Body / Cylinder	1
304050-05	61	Valve Plate Assy Complete	1
372504-01	74	Gasket Cylinder / Valve Plate	1
372604-01	75	Gasket Valve Plate / Cylinder Head	1
361315-10	84	Discharge Shut-Off Valve Complete	1
362001-03	91	Suction Strainer	1
361310-05	93	Suction Shut-Off Valve Complete	1
372800-05	101	Gasket Set Complete	1

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Bitzer V-Y

Complete with suction and discharge stop valves, and charged with Ester Oil

PART NO	ITEM NO.	DESCRIPTION	QTY PER COMPRESSOR
311104-08	2+3	Bearing Bush	2
311104-09	4+5	Bearing Bush (Back / Inner)	2
310003-01	6	Eccentric Shaft	1
374018-04	7	Shaft Seal Assembly Complete	1
372003-15	21	O Ring	1
361802-02	22	Sight Glass	1
320501-03	25	Spring, Compensating Disc	1
325000-22	26	Thrust Spring	1
386002-03	27	Ball	1
372310-03	28	Gasket (Body / Back Cover)	1
302005-01	38	Eccentric	1
315107-11	39	Key for Eccentric Complete	1
315107-11	43	Key for Eccentric Complete	1
302239-06	48	Connecting Rod / Piston Assembly	2
382300-37	54	Piston Ring (advise size of ring)	4
372405-01	55	Gasket Body / Cylinder	1
304050-06	61	Valve Plate Assy Complete	1
372505-01	74	Gasket Cylinder / Valve Plate	1
372605-01	75	Gasket Valve Plate / Cylinder Head	1
361310-06	84	Discharge Shut-Off Valve Complete	1
362001-01	91	Suction Strainer	1
361310-07	93	Suction Shut-Off Valve Complete	1
372800-06	101	Gasket Set Complete	1

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Bitzer VI-Y

Complete with suction and discharge stop valves, and charged with Ester Oil

PART NO	ITEM NO.	DESCRIPTION	QTY PER COMPRESSOR
311100-09	2	Bearing Bush (Drive End / Outer)	1
311100-09	3	Bearing Bush (Drive End / Inner)	1
311100-12	4	Bearing Bush (Back / Inner)	1
310004-01	6	Eccentric Shaft	1
374018-05	7	Shaft Seal Assembly Complete HFC	1
372003-15	21	O Ring	1
361802-02	22	Sight Glass	1
320501-04	25	Spring, Compensating Disc	1
325000-21	26	Thrust Spring	1
386002-04	27	Ball	1
372310-02	28	Gasket (Body / Back Cover)	1
302006-01	38	Eccentric	1
315107-12	39	Key for Eccentric Complete	1
315107-12	43	Key for Eccentric Complete	1
302239-07	48	Connecting Rod / Piston Assembly	2
382300-39	54	Piston Ring	4
372406-01	55	Gasket Body / Cylinder	1
304050-07	61	Valve Plate Assy Complete	1
372506-01	74	Gasket Cylinder / Valve Plate	1
372606-01	75	Gasket Valve Plate / Cylinder Head	1
361310-07	84	Discharge Shut-Off Valve Complete	1
362001-01	91	Suction Strainer	1
361310-08	93	Suction Shut-Off Valve Complete	1
372800-07	101	Gasket Set Complete	1

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Bitzer VII-Y

Complete with suction and discharge stop valves, and charged with Ester Oil

PART NO	ITEM NO.	DESCRIPTION	QTY PER COMPRESSOR
311100-10	2	Bearing Bush (Drive End / Outer)	1
311100-10	3	Bearing Bush (Drive End / Inner)	1
311100-13	4	Bearing Bush (Back / Inner)	1
310005-01	6	Eccentric Shaft	1
374018-06	7	Shaft Seal Assembly Complete HFC	1
372003-15	21	O Ring	1
361802-02	22	Sight Glass	1
320501-04	25	Spring, Compensating Disc	1
325000-21	26	Thrust Spring	1
386002-04	27	Ball	1
372312-03	28	Gasket (Body / Back Cover)	1
302007-01	38	Eccentric	1
315107-12	39	Key for Eccentric Complete	1
315107-12	43	Key for Eccentric Complete	1
302239-08	48	Connecting Rod / Piston Assembly	2
382300-41	54	Piston Ring	4
372407-01	55	Gasket Body / Cylinder	1
304050-05	61	Valve Plate Assembly Complete	1
372507-01	74	Gasket Cylinder / Valve Plate	1
372607-01	75	Gasket Valve Plate / Cylinder Head	1
361310-08	84	Discharge Shut-Off Valve Complete	1
362001-08	91	Suction Strainer	1
361338-01	93	Suction Shut-Off Valve Complete	1
372800-08	101	Gasket Set Complete	1

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Bitzer 2N.2Y

Complete with suction and discharge stop valves, and charged with Ester Oil

PART NO	ITEM NO.	DESCRIPTION	QTY PER COMPRESSOR
311100-04	2	Bearing Bush (Motor Side)	1
320500-07	5	Thrust Washer (Crankcase Side)	1
301007-01	6	Crankshaft	1
302297-24	24	Connecting Rod / Piston Assembly Complete	2
382300-52	33	Piston Ring – Compression	2
382310-41	34	Piston Ring – Oil Scraper	2
311100-17	38	Bearing Bush	1
320500-07	39	Thrust Washer	1
362503-01	41	Oil Pump Complete	1
362001-01	71	Suction Strainer	1
361310-07	74	Suction Shut-Off Valve	1
362003-02	85	Oil Strainer	1
361802-02	93	Sight Glass	1
372413-01	96	Gasket	1
361310-06	110	Discharge Shut-Off Valve	1
304056-03	116	Valve Plate Assembly Complete	1
372510-12	117	Gasket, Body / Valve Plate	1
372611-05	118	Gasket, Valve Plate / Cylinder Head	1
372805-02	162	Gasket Set Complete	1
374011-08	200	Shaft Seal Assembly Complete HFC	1
384001-08	210	Key	1

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Bitzer 2T.2Y

Complete with suction and discharge stop valves, and charged with Ester Oil

PART NO	ITEM NO.	DESCRIPTION	QTY PER COMPRESSOR
311100-04	2	Bearing Bush (Motor Side)	1
320500-07	5	Thrust Washer (Crankcase Side)	1
301107-07	6	Crankshaft	1
302297-25	24	Connecting Rod / Piston Assembly Complete	2
382300-52	33	Piston Ring – Compression	2
382310-41	34	Piston Ring – Oil Scraper	2
311100-17	38	Bearing Bush	1
362503-01	41	Oil Pump Complete	1
362001-09	71	Suction Strainer	1
361310-07	74	Suction Shut-Off Valve	1
362003-02	85	Oil Strainer	1
361802-02	93	Sight Glass	1
372413-01	96	Gasket	1
361310-06	110	Discharge Shut-Off Valve	1
304056-02	116	Valve Plate Assembly Complete	1
372510-12	117	Gasket, Body / Valve Plate	1
372611-05	118	Gasket, Valve Plate / Cylinder Head	1
372805-02	162	Gasket Set Complete	1
374011-08	200	Shaft Seal Assembly Complete HFC	1
384001-08	210	Key	1

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Bitzer 4T.2Y

Complete with suction and discharge stop valves, and charged with Ester Oil

PART NO	ITEM NO.	DESCRIPTION	QTY PER COMPRESSOR
311100-14	2	Bearing Bush	1
311100-14	3	Bearing Bush	1
320500-05	5	Thrust Washer	1
301107-08	6	Eccentric Shaft	1
320313-01	11	Thrust Segment	2
302297-25	12	Piston & Con Rod	4
382310-41	21	Oil Scraper Rings	4
382300-52	22	Compression Rings	4
305125-02	24	Bearing Cover	1
311100-17	25	Bearing Bush	1
362503-01	29	Oil Pump	1
312030-02	38	Thrust Collar	1
362001-09	57	Suction Gas Filter	1
372704-01	58	Gasket	2
361310-08	60	Compressor Stop Valve	1
372200-04	62	Gasket	1
362003-02	73	Oil Filter	1
361105-01	74	Pressure Relief Valve	1
372003-15	76	O Ring	1
361802-02	77	Sight Glass	1
372704-01	92	Gasket for Discharge Valve	1
361310-07	94	Compressor Stop Valve	1
304052-03	100	Valve Plate Complete	2
372510-12	101	Gasket	2
372611-01	102	Gasket	2
374011-09	202	Shaft Seal Complete HFC	1
372807-01	148	Gasket Set Complete	1

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Bitzer 4P.2Y

Complete with suction and discharge stop valves, and charged with Ester Oil

PART NO	ITEM NO.	DESCRIPTION	QTY PER COMPRESSOR
311100-14	2	Bearing Bush	1
311100-14	3	Bearing Bush	1
320500-05	5	Thrust Washer	1
301007-12	6	Crankshaft	1
302297-18	12	Piston & Con Rod	4
382310-16	21	Compression Ring	4
382300-49	22	Compressing Ring	4
305125-01	24	Bearing Cover	1
311100-17	25	Bearing Bush	1
320500-07	26	Thrust Washer	1
362503-01	28	Oil Pump	1
312030-02	38	Thrust Collar	1
362001-09	57	Suction Gas Filter	1
372704-01	58	Gasket	1
361310-08	60	Compressor Stop Valve	1
372200-04	62	Gasket	2
362003-02	73	Oil Filter	1
361105-01	74	Pressure Relief Valve	1
372003-15	76	O Ring	1
361802-02	77	Sight Glass	1
372704-01	92	Gasket for Discharge Valve	1
361310-07	94	Compressor Stop Valve	1
304052-02	100	Valve Plate Complete	2
372510-11	101	Gasket	2
372611-01	102	Gasket	2
374011-09	202	Shaft Seal Complete HFC	1
372810-01	148	Gasket Set Complete	1

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Bitzer 4G.2Y

Complete with suction and discharge stop valves, and charged with Ester Oil

PART NO	ITEM NO.	DESCRIPTION	QTY PER COMPRESSOR
311110-08	3	Bearing Bush	1
320500-08	5	Thrust Washer	1
301007-03	6	Crankshaft	1
302297-40	9	Piston & Con Rod Assy	4
382300-58	18	Compression Rings	4
382310-25	19	Compression Rings	4
311100-04	32	Bearing Bush	1
320500-07	31	Thrust Washer	1
305125-03	34	Bearing Cover Complete	1
362004-01	59	Suction Gas Filter	1
361338-04	72	Suction Shut-Off Valve	1
362003-01	85	Oil Filter	1
361802-02	89	Sight Glass	1
304051-03	119	Valve Plate Complete with Gaskets & Reeds	3
374017-03	203	Shaft Seal Complete	1
372812-02	171	Gasket Set Complete	1

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Bitzer 6G.2Y

Complete with suction and discharge stop valves, and charged with Ester Oil

PART NO	ITEM NO.	DESCRIPTION	QTY PER COMPRESSOR
311110-08	3	Bearing Bush	1
320500-08	5	Thrust Washer	1
301007-08	6	Crankshaft	1
302297-40	9	Piston & Con Rod Assy	6
382300-58	18	Compression Rings	6
382310-25	19	Compression Rings	6
311100-04	32	Bearing Bush	1
320500-07	31	Thrust Washer	1
305125-03	34	Bearing Cover Complete	1
362004-01	59	Suction Gas Filter	1
361338-04	72	Suction Shut-Off Valve	1
362003-01	85	Oil Filter	1
361802-02	89	Sight Glass	1
304051-03	119	Valve Plate Complete with Gaskets & Reeds	3
374017-03	203	Shaft Seal Complete	1
372812-04	171	Gasket Set Complete	1

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Bock FX3 (Part no. 12085)

Complete with suction and discharge stop valves, and charged with Ester Oil

PART NO	ITEM NO.	DESCRIPTION	QTY PER COMPRESSOR
8070	209	Gasket Kit	1
8001	201	Shaft Seal Complete	1
8198	200	Valve Plate Complete with Gaskets	1
8022	204	Piston & Con Rod Complete with rings	2
5380	32	Piston Ring	2
5390	31	Oil Ring	2
8153	212	Front Main Bearing c/w Gasket	1
8155	211	Rear Main Bearing c/w Gasket	1
8043	202	Oil Pump Complete including Gears & Bearings	1
8054	205	Crankshaft	1
8088	206	Discharge Stop Valve NW20	1
8091	207	Suction Stop Valve NW25	1
8424	315	Oil Sump Heater 220v 60W 220-240v	1
8130	208	Sight Glass assy including O Ring	1
3370	33	Filter for Suction	1
4435	48	Filter for Oil Sump	1
5671	68	Woodruff Key	1

8188	Set Service Kit including Gasket Set, Valve Plate and Shaft Seal
42-359	Full Overhaul Kit
12085	New Compressor Complete
4186	Compressor Flywheel

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Bock FX4 (Part no. 12086)

Complete with suction and discharge stop valves, and charged with Ester Oil

PART NO	ITEM NO.	DESCRIPTION	QTY PER COMPRESSOR
8071	209	Gasket Set Complete	1
8008	201	Shaft Seal Assembly c/w Gasket	1
8198	200	Valve Plate Complete with Gaskets	2
8022	204	Piston & Con Rod Assy	4
4359	60	Journal Box Front End Bearing Insert	1
8157	212	Rear End Bearing Complete with Gasket Oil	1
8044	202	Pump c/w Gears, Bearings and Gaskets	1
8082	207	Compressor Stop Valve Complete 32mm	1
8084	206	Compressor Stop Valve Complete 25mm	1
8456	290	Filter For Sump	1
8459	107	Safety Valve 7940	1
8425	318	Oil Sump Heater 80 watt 230v A/C	1
8130	208	Sight Glass c/w O Ring 6001 62mm diameter	1
5390	31	Oil Scraper Ring	4
5380	32	Piston Ring	4
3370	33	Filter For Suction Side	1
5673	68	Woodruff Key A5 X 9	1
5670	80	Woodruff Key A3 X 3.7	1
8055	205	Crankshaft Complete 49 Stroke	1

8183	Set Service Kit including Gasket Set, Valve Plate and Shaft Seal
42-360	Full Overhaul Kit
12086	New Compressor Complete
4188	Compressor Flywheel

We always recommend the use of genuine compressor spares. However, we can offer aftermarket spares, if required. Please state this when sending your enquiry.

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We can offer a range of drive belts, couplings and pressure gauges. Please refer to index for page numbers.

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Bock FX5 (Part no. 12087)

Complete with suction and discharge stop valves, and charged with Ester Oil

PART NO	ITEM NO.	DESCRIPTION	QTY PER COMPRESSOR
8072	209	Gasket Set Complete	1
8008	201	Shaft Seal Assembly c/w Gasket	1
8436	200	Valve Plate Complete with Gasket	2
4359	60	Journal Box Front End Bearing Insert	1
8157	212	Rear End Bearing Complete with Gasket	1
8044	202	Oil Pump c/w Gears, Bearings and Gaskets	1
8082	207	Compressor Stop Valve Complete 32mm	3
8456	290	Filter For Sump	1
8425	218	Oil Sump Heater 80watt 230v A/C	1
8130	208	Sight Glass c/w O Ring 6001 62mm diameter	1
5391	32	Oil Scraper Ring	4
5381	33	Piston Ring	4
3370	34	Filter For Suction Side	1
5673	68	Woodruff Key A5 X 9	1
5670	35	Woodruff Key A3 X 3.7	1
8056	205	Crankshaft Complete 49 Stroke	1
8025	204	Piston & Con Rod	4

8184	Set Service Kit including Gasket Set, Valve Plate and Shaft Seal
42-3610	Full Overhaul Kit
12087	New Compressor Complete
4189	Compressor Flywheel

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Bock FX14 / 1166 (Part no. 11697)

Complete with suction and discharge stop valves, and charged with Ester Oil

PART NO	ITEM NO.	DESCRIPTION	QTY PER COMPRESSOR
8492	210	Gasket Set Complete	1
8444	202	Shaft Seal Complete with Gasket	1
8498	201	Valve Plate Complete with Gasket	2
8490	205	Piston & Con Rod Assy	4
81284	230	Front End Bearing	1
8465	221	Rear End Bearing	1
8398	207	Compressor Stop Valve 38mm	1
8087	208	Compressor Stop Valve 50mm	1
8457	290	Filter For Sump	1
8426	314	Oil Sump Heater 140v 220-240v	1
8130	209	Sight Glass	1
6369	145	Double Oil Ring	4
6368	43	Oil Scraper Ring	4
6367	42	Piston Ring	4
5983	21	Filter for Suction	1
5673	77	Woodruff key	1
8447	206	Crankshaft	1

F141166-1	Set Service Kit including Gasket Set, Valve Plate and Shaft Seal
42-372	Full Overhaul Kit
11697	New Compressor Complete
81302	Compressor Flywheel
8813	Start Unloader AL92 220-240V
8810	Capacity Regulator

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Bock FX14 / 1366 (Part no. 11702)

Complete with suction and discharge stop valves, and charged with Ester Oil

PART NO	ITEM NO.	DESCRIPTION	QTY PER COMPRESSOR
8492	210	Gasket Set Complete	1
8444	202	Shaft Seal Complete with Gasket	1
8498	201	Valve Plate Complete with Gasket	2
8491	205	Piston & Con Rod Assy	4
81284	230	Front End Bearing	1
8465	221	Rear End Bearing	1
8398	207	Compressor Stop Valve 38mm	1
8087	208	Compressor Stop Valve 50mm	1
8457	290	Filter For Sump	1
8426	314	Oil Sump Heater 140v 220-240v	1
8130	209	Sight Glass	1
6369	145	Double Oil Ring	4
6368	43	Oil Scraper Ring	4
6367	42	Piston Ring	4
5983	21	Filter for Suction	1
5673	77	Woodruff key	1
8445	206	Crankshaft	1

F141366-1	Set Service Kit including Gasket Set, Valve Plate and Shaft Seal
42-372	Full Overhaul Kit
11702	New Compressor Complete
81302	Compressor Flywheel
8813	Start Unloader AL92 220-240V
8810	Capacity Regulator

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Bock FX16 / 1751 (Part no. 11707)

Complete with suction and discharge stop valves, and charged with Ester Oil

PART NO	ITEM NO.	DESCRIPTION	QTY PER COMPRESSOR
8493	210	Gasket Set Complete	1
8012	202	Shaft Seal Complete with Gasket	1
8498	201	Valve Plate Complete with Gasket	3
8490	205	Piston & Con Rod Assy	6
81284	230	Front End Bearing	1
8465	221	Rear End Bearing	1
8398	207	Compressor Stop Valve 38mm	1
8087	208	Compressor Stop Valve 50mm	1
8457	290	Filter For Sump	1
8426	314	Oil Sump Heater 140v 220-240v	1
8130	309	Sight Glass	1
6369	145	Double Oil Ring	6
6368	43	Oil Scraper Ring	6
6367	42	Piston Ring	6
5983	21	Filter for Suction	1
5883	77	Woodruff key	1
8397	206	Crankshaft	1
8457	290	Oil Suction Strainer	1

8495	Set Service Kit including Gasket Set, Valve Plate and Shaft Seal
42-372	Full Overhaul Kit
11707	New Compressor Complete
81301	Compressor Flywheel
8813	Start Unloader AL92 220-240V
8810	Capacity Regulator

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Bock FX16 / 2051 (Part no. 11712)

Complete with suction and discharge valves, and charged with Ester Oil

PART NO	ITEM NO.	DESCRIPTION	QTY PER COMPRESSOR
8493	210	Gasket Set Complete	1
8012	202	Shaft Seal Complete with Gasket	1
8498	201	Valve Plate Complete with Gasket	3
8491	205	Piston & Con Rod Assy	6
81284	220	Front End Bearing	1
8465	221	Rear End Bearing	1
8398	207	Compressor Stop Valve 38mm	1
8087	208	Compressor Stop Valve 50mm	1
8457	290	Filter for Sump	1
8426	214	Oil Sump Heater 140v 220-240v	1
8130	309	Sight Glass	1
6369	145	Double Oil Ring	6
6368	43	Oil Scraper Ring	6
6367	42	Piston Ring	6
5983	21	Filter for Suction	1
5883	77	Woodruff Key	1
8397	206	Crankshaft	1
8457	290	Oil Suction Strainer	1

8495	Set Service Kit including Gasket Set, Valve Plate and Shaft Seal
42-372	Full Overhaul Kit
11707	New Compressor Complete
3434	Compressor Flywheel
8813	Start Unloader AL92 220-240V
8810	Capacity Regulator

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Carrier 5F20

Complete with suction and discharge stop valves.

PART NO	ITEM NO.	DESCRIPTION	QTY PER COMPRESSOR
5F20660-001	NI	Gasket Set Complete	1
5F20-1012	NI	Main Bearing for Front End	1
5F30-1003	85	Cylinder Liner	2
5F20-2653	86	Suction Screen	1
5F20-152	103	Sight Glass	1
05HG660-006	109	Shaft Seal Complete	1
5F20-1022	NI	Main Bearing for Rear End	1
5F20-A272	129	Oil Pump Complete with Rotor & Gaskets	1
05HG660-004	134	Crankshaft	1
5F20-103	141	Con Rod c/w Bolts & Nuts	2
5F20-1002	145	Half Bearings for Con Rod Standard Size	4
5F20-1741	146	Bearing Washer	2
5F20-1761	147	Seal End Thrust Washer	1
5F20-482	148	Piston c/w Pin and Circlips	2
5F20-1071	152	Piston Rings	4
5F20-1091	152	Oil Rings	4
5F20-120	154	Valve Plate complete (includes gaskets & rings)	2
6G45-1151	193	Unloader Lifter Springs	6
6G45-1191	194	Unloader Lifter Pins	6

5F20-1255	Service Kit for Valve Plates
5F20-1256	Overhaul Kit for Compressor

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Carrier 5F30

Complete with suction and discharge stop valves.

PART NO	ITEM NO.	DESCRIPTION	QTY PER COMPRESSOR
5F20660-001	NI	Gasket Set Complete	1
5F30-1012	NI	Main Bearing for Front End	1
5F30-1003	85	Cylinder Liner	3
5F20-2653	86	Suction Screen	1
5F20-152	103	Sight Glass	1
05HG660-006	109	Shaft Seal Complete	1
5F20-1022	NI	Main Bearing for Rear End	1
5F20-A272	129	Oil Pump Complete with Rotor & Gaskets	1
05HG660-005	134	Crankshaft	1
5F20-103	141	Con Rod c/w Bolts & Nuts	3
5F20-1002	145	Half Bearings for Con Rod Standard Size	6
5F20-1741	146	Bearing Washer	2
5F20-1761	147	Seal End Thrust Washer	1
5F20-482	148	Piston c/w Pin and Circlips	3
5F20-1071	152	Piston Rings	6
5F20-1091	152	Oil Rings	6
5F20-120	154	Valve Plate complete (includes gaskets & rings)	3
6G45-1151	193	Unloader Lifter Springs	12
6G45-1191	194	Unloader Lifter Pins	12

5F30-1255	Service Kit for Valve Plates
5F30-1256	Overhaul Kit for Compressor

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Carrier 5F40

Complete with suction and discharge stop valves.

PART NO	ITEM NO.	DESCRIPTION	QTY PER COMPRESSOR
5F60660-001	NI	Gasket Set Complete	1
5F40-1012	NI	Main Bearing for Front End	1
5F30-1003	85	Cylinder Liner	4
5F40-237	86	Suction Screen	1
5F20-152	103	Sight Glass	1
5F40-276	113	Shaft Seal Complete	1
5F40-1022	NI	Main Bearing for Rear End	1
5F20-A272	129	Oil Pump Complete with Rotor & Gaskets	1
5F40-114	134	Crankshaft	1
5F20-103	141	Con Rod c/w Bolts & Nuts	4
5F20-1002	145	Half Bearings for Con Rod Standard Size	8
5F20-1741	146	Bearing Washer	1
5F40-1751	146a	Bearing Washer	1
5F40-1761	147	Seal End Thrust Washer	1
5F20-482	148	Piston c/w Pin and Circlips	4
5F20-1071	152	Piston Rings	8
5F20-1091	152	Oil Rings	8
5F40-120	154	Valve Plate complete (includes gaskets & rings)	2
6G45-1151	193	Unloader Lifter Springs	18
6G45-1191	194	Unloader Lifter Pins	18

5F40-1255	Service Kit for Valve Plates
5F40-1256	Overhaul Kit for Compressor

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Carrier 5F60

Complete with suction and discharge stop valves.

PART NO	ITEM NO.	DESCRIPTION	QTY PER COMPRESSOR
5F60660-001	NI	Gasket Set Complete	1
5F40-1012	NI	Main Bearing for Front End	1
5F30-1003	85	Cylinder Liner	6
5F40-237	86	Suction Screen	1
5F20-152	103	Sight Glass	1
5F40-276	113	Shaft Seal Complete	1
5F40-1022	NI	Main Bearing for Rear End	1
5F20-A272	129	Oil Pump Complete with Rotor & Gaskets	1
5F60-114	134	Crankshaft	1
5F20-103	141	Con Rod c/w Bolts & Nuts	6
5F20-1002	145	Half Bearings for Con Rod Standard Size	12
5F40-1741	146	Bearing Washer	1
5F40-1751	146a	Bearing Washer	1
5F20-1761	147	Seal End Thrust Washer	1
5F20-482	148	Piston c/w Pin and Circlips	6
5F20-1071	152	Piston Rings	12
5F20-1091	152	Oil Rings	12
5F40-120	154	Valve Plate complete (includes gaskets & rings)	3
6G45-1151	193	Unloader Lifter Springs	24
6G45-1191	194	Unloader Lifter Pins	24

5F60-1255	Service Kit for Valve Plates
5F60-1256	Overhaul Kit for Compressor

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Carrier 5H40-909

Complete with suction and discharge stop valves.

PART NO	ITEM NO.	DESCRIPTION	QTY PER COMPRESSOR
5H40-1012	57	Main Bearing Front End	1
5H40-1003	77	Cylinder Liner	4
5H40-2221	78	Snap Ring for Cylinder Liner	3
5H40-237	79	Oil Screen Package	1
5H40-962	99	Oil Pressure Regulator	1
5H40-276	107	Shaft Seal c/w Cover and Gasket	1
5H40-1022	116	Main Bearing for Rear End	1
5H40-A372	119	Oil Pump Complete with Rotor & Gaskets	1
5F40-721	124	Capacity Control Valve with bellows and Valve	1
5H40-562	183	Crankshaft Complete	1
5H40-103	188	Con Rod Complete with Bolts and Nyloc Nuts	4
5H40-1002	191	Con Rod Bearing Half Standard	8
5H40-1062	192	Seal End Bearing Washer	1
5H40-1072	193	Seal End Thrust Washer	1
5H40-1082	194	Pump End Bearing Washer	1
5H40-482	195	Piston Complete with Pin & Circlips	4
5H40-1091	199	Oil Scraper Rings	8
5H40-1071	200	Piston Compression Rings	8
5H40-120A	203	Valve Pate Complete with Gaskets & Ring	2
5H40-1752	220	Sleeve for Unloader	3
5H40-2241	221	Spring for Unloader Sleeve	18
5H40-2231	222	Pin for Unloader Sleeve	18
5H40-163	223	Unloader Power Assembly	3
5F20-152	245	Sight Glass with Gaskets	1
05HG660-020	257	External Oil Filter	1
5H40-502	NI	Gasket Set Complete	1

5H40-1255	Service Kit for Valve Plates
5H40-1256	Overhaul Kit for Compressor

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Carrier 5H60-C119

Complete with suction and discharge stop valves.

PART NO	ITEM NO.	DESCRIPTION	QTY PER COMPRESSOR
5H40-1012	57	Main Bearing Front End	1
5H40-1003	77	Cylinder Liner	6
5H40-2221	78	Snap Ring for Cylinder Liner	4
5H40-237	79	Oil Screen Package	1
5H40-962	99	Oil Pressure Regulator	1
5H40-276	107	Shaft Seal c/w Cover and Gasket	1
5H40-1022	116	Main Bearing for Rear End	1
5H40-A372	119	Oil Pump Complete with Rotor & Gaskets	1
5F40-721	124	Capacity Control Valve with bellows and Valve	1
5H60-114	183	Crankshaft Complete	1
5H40-103	188	Con Rod Complete with Bolts and Nyloc Nuts	6
5H40-1002	191	Con Rod Bearing Half Standard	12
5H40-1062	192	Seal End Bearing Washer	1
5H40-1072	193	Seal End Thrust Washer	1
5H40-1082	194	Pump End Bearing Washer	1
5H40-482	195	Piston Complete with Pin & Circlips	6
5H40-1091	199	Oil Scraper Rings	12
5H40-1071	200	Piston Compression Rings	12
5H40-120A	203	Valve Pate Complete with Gaskets & Ring	3
5H40-1752	220	Sleeve for Unloader	6
5H40-2241	221	Spring for Unloader Sleeve	24
5H40-2231	222	Pin for Unloader Sleeve	24
5H40-163	223	Unloader Power Assembly	4
5F20-152	245	Sight Glass with Gaskets	1
05HG660-020	257	External Oil Filter	1
5H60-502	NI	Gasket Set Complete	1
5H60-1255		Service Kit for Valve Plates	
5H60-1256		Overhaul Kit for Compressor	

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Carrier 5H80-A204

Complete with suction and discharge stop valves.

PART NO	ITEM NO.	DESCRIPTION	QTY PER COMPRESSOR
5H40-1012	57	Main Bearing Front End	1
5H80-1242	69	Bearing Half For Centre Bearing	2
5H40-1003	77	Cylinder Liner	8
5H40-2221	78	Snap Ring for Cylinder Liner	6
5H40-237	79	Oil Screen Package	1
5H40-962	99	Oil Pressure Regulator	1
5H40-276	107	Shaft Seal c/w Cover and Gasket	1
5H40-1022	116	Main Bearing for Rear End	1
5H40-A372	119	Oil Pump Complete with Rotor & Gaskets	1
5F40-721	124	Capacity Control Valve with bellows and Valve	1
5H80-562	183	Crankshaft Complete	1
5H40-103	188	Con Rod Complete with Bolts and Nyloc Nuts	8
5H40-1002	191	Con Rod Bearing Half Standard	16
5H40-1062	192	Seal End Bearing Washer	1
5H40-1072	193	Seal End Thrust Washer	1
5H40-1082	194	Pump End Bearing Washer	1
5H40-482	195	Piston Complete with Pin & Circlips	8
5H40-1091	199	Oil Scraper Rings	16
5H40-1071	200	Piston Compression Rings	16
5H40-120A	203	Valve Pate Complete with Gaskets & Ring	4
5H40-1752	220	Sleeve for Unloader	6
5H40-2241	221	Spring for Unloader Sleeve	36
5H40-2231	222	Pin for Unloader Sleeve	36
5H40-163	223	Unloader Power Assembly	6
5F20-152	245	Sight Glass with Gaskets	1
05HG660-020	257	External Oil Filter	1
5H80-502	NI	Gasket Set Complete	1

5H80-1255	Service Kit for Valve Plates
5H80-1256	Overhaul Kit for Compressor

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Carrier 5H66

Complete with suction and discharge stop valves.

PART NO	ITEM NO.	DESCRIPTION	QTY PER COMPRESSOR
5H40-1012	57	Main Bearing Front End	1
5H46-1003	77	Cylinder Liner	6
5H40-2221	78	Snap Ring for Cylinder Liner	4
5H40-237	79	Oil Screen Package	1
5H40-962	99	Oil Pressure Regulator	1
5H40-276	107	Shaft Seal c/w Cover and Gasket	1
5H40-1022	116	Main Bearing for Rear End	1
5H40-A372	119	Oil Pump Complete with Rotor & Gaskets	1
5F40-721	124	Capacity Control Valve with bellows and Valve	1
5H66-562	183	Crankshaft Complete	1
5H40-103	188	Con Rod Complete with Bolts and Nyloc Nuts	6
5H40-1002	191	Con Rod Bearing Half Standard	12
5H40-1062	192	Seal End Bearing Washer	1
5H40-1072	193	Seal End Thrust Washer	1
5H40-1082	194	Pump End Bearing Washer	1
5H46-482	195	Piston Complete with Pin & Circlips	6
5H40-1091	199	Oil Scraper Rings	6
5H46-1071	200	Piston Compression Rings	12
5H46-120A	203	Valve Pate Complete with Gaskets & Ring	3
5H40-1752	220	Sleeve for Unloader	6
5H40-2241	221	Spring for Unloader Sleeve	24
5H40-2231	222	Pin for Unloader Sleeve	24
5H40-163	223	Unloader Power Assembly	4
5F20-152	245	Sight Glass with Gaskets	1
05HG660-020	257	External Oil Filter	1
5H60-502	NI	Gasket Set Complete	1
5H40-1255		Service Kit for Valve Plates	
5H66-1256		Overhaul Kit for Compressor	

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We can offer a range of drive belts, couplings and pressure gauges. Please refer to index for page numbers.

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Carrier 5H86-404

Complete with suction and discharge stop valves.

PART NO	ITEM NO.	DESCRIPTION	QTY PER COMPRESSOR
5H40-1012	57	Main Bearing Front End	1
5H80-1242	69	Bearing Half for Centre Bearing	1
5H120-1242	70	Bearing Half for Centre Bearing	1
5H46-1003	77	Cylinder Liner	8
5H40-2221	78	Snap Ring for Cylinder Liner	6
5H40-237	79	Oil Screen Package	1
5H40-962	99	Oil Pressure Regulator	1
5H40-276	107	Shaft Seal c/w Cover and Gasket	1
5H40-1022	116	Main Bearing for Rear End	1
5H40-A372	119	Oil Pump Complete with Rotor & Gaskets	1
5F40-721	124	Capacity Control Valve with bellows and Valve	1
5H86-562	183	Crankshaft Complete	1
5H40-103	188	Con Rod Complete with Bolts and Nyloc Nuts	8
5H40-1002	191	Con Rod Bearing Half Standard	16
5H40-1062	192	Seal End Bearing Washer	1
5H40-1072	193	Seal End Thrust Washer	1
5H40-1082	194	Pump End Bearing Washer	1
5H46-482	195	Piston Complete with Pin & Circlips	8
5H40-1091	199	Oil Scraper Rings	8
5H46-1071	200	Piston Compression Rings	16
5H46-120A	203	Valve Pate Complete with Gaskets & Ring	4
5H40-1752	220	Sleeve for Unloader	6
5H40-2241	221	Spring for Unloader Sleeve	36
5H40-2231	222	Pin for Unloader Sleeve	36
5H40-163	223	Unloader Power Assembly	6
5F20-152	245	Sight Glass with Gaskets	1
05HG660-020	257	External Oil Filter	1
5H80-502	NI	Gasket Set Complete	1
5H40-1255		Service Kit for Valve Plates	
5H86-1256		Overhaul Kit for Compressor	

We always recommend the use of genuine compressor spares. However, we can offer aftermarket spares, if required. Please state this when sending your enquiry.

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We can offer a range of drive belts, couplings and pressure gauges. Please refer to index for page numbers.

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Carrier 5H126

Complete with suction and discharge stop valves.

PART NO	ITEM NO.	DESCRIPTION	QTY PER COMPRESSOR
5H40-1012	57	Main Bearing Front End	1
5H80-1242	69	Bearing Half for Centre Bearing	1
5H120-1242	70	Bearing Half for Centre Bearing	1
5H46-1003	77	Cylinder Liner	12
5H40-2221	78	Snap Ring for Cylinder Liner	8
5H120-252	80	Oil Screen Package	1
5H120-782	101	Oil Pressure Regulator	1
5H120-732	111	Shaft Seal c/w Cover and Gasket	1
5H40-1022	1133	Main Bearing for Rear End or	1
6L80-2172	133	Main bearing for Rear End	1
5F40-721	124	Capacity Control Valve with bellows and Valve	1
5H120-351	174	Oil Filter Cartridge with Gaskets	1
5H126-562	183	Crankshaft Complete	1
5H40-103	188	Con Rod Complete with Bolts and Nyloc Nuts	12
5H40-1002	191	Con Rod Bearing Half Standard	24
5H40-1062	192	Seal End Bearing Washer	1
5H120-1072	193	Seal End Thrust Washer	1
5H40-1082	194	Pump End Bearing Washer	1
5H46-482	195	Piston Complete with Pin & Circlips	8
5H40-1091	199	Oil Scraper Rings	12
5H46-1071	200	Piston Compression Rings	24
5H46-120A	203	Valve Pate Complete with Gaskets & Ring	6
5H40-1752	220	Sleeve for Unloader	8
5H40-2241	221	Spring for Unloader Sleeve	48
5H40-2231	222	Pin for Unloader Sleeve	48
5H40-163	223	Unloader Power Assembly	8
5F20-152	245	Sight Glass with Gaskets	1
5H120-502	NI	Gasket Set Complete	1

5H40-1255	Service Kit for Valve Plates
5H126-1256	Overhaul Kit for Compressor

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Grasso RC11

Compressor spares

PART NO	DESCRIPTION
09-03-227	Cylinder Head Gasket 227 x 241 x 1.5
09-03-067	Gasket 67 x 81 x 1.5
09-03-050	Gasket 50 x 65 x 1.5
12-26-065	Oil Sight Glass
11-46-291	Main Bearing 90 x 96 x 103 after 93102000
11-46-191	Main Bearing 90 x 96 x 107
11-44-900	Bearing Block Half Bearings
11-48-840	Locking Plate
11-68-109	Steel Thrust Ring after 9310200
24-17-160	Piston Complete (replaced 24-17-011)
24-16-050	Gudgeon Pin for 24-17-160
11-14-642	Locking Plate
09-74-160	Set of Piston Rings FOR 24-17-160
24-19-510	Con Rod Complete LP Single Stage Compressor
11-46-652	Bush
11-44-591	Bearing Shell 90 x 53 replaced 11-44-590
11-39-800	Locking Ring Set M16
01-47-805	Lock Nut M16
23-19-110	Cylinder Liner Assy Complete
23-18-010	Cylinder Liner
09-02-206	Oilit Sealing Ring
09-01-206	Oilit Sealing Ring
09-03-206	Oilit Sealing Ring
11-31-181	Pressure Spring 18 x 88 2.4 x 115
20-38-031	Discharge Valve & Spring Set
20-38-032	Suction Valve & Spring Set
09-62-920	Shaft Seal Assy
18-10-185	Oil Pump Assy
07-16-171	Filter Gauze
07-11-920	Paper Oil Filter

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Sabroe CM024

CFC Refrigerant

PART NO	ITEM NO.	DESCRIPTION	QTY PER COMPRESSOR
3184-285		Set of Washers for Top Cover (includes 48 1436-075 & 36 1436-076)	1
3188-066		Gasket Kit for CM024/34 Top and Side Cover (includes 3 1323P077, 1 2353-102, 4 2353-172, 3 2353-241 & 1 2354-075)	1
2132-086	5E-1 & 6E-1	Main Bearings	2
3188-069		Gasket Set CMO End Cover (includes 1 1331-608, 1 2353-104, 1 2353-118, 1 2353-166, 2 2353-167, 1 2353-168, 1 2353-169 & 1 2353-221)	1
3188-083		Shaft Seal Overhaul Kit (includes 1 3126-165, 1 3126-163, 1 3126-164 + 1 1446-081)	1
3184-423		Oil Pump Complete (includes 4 1413-364, 1 3141-154, 1 1331-568, 2 2132-087 & 1 2353-170)	1
3188-074		Gasket Kit for Unloader Mechanism CMO (includes 2 1331-534 2 1331-535 2 1332-113, 2 1332-114 & 2 3135-171)	2
3123-076	17-1	Con Rod Complete Standard Size	4
3184-438		Assembly kit for Con Rods (includes 4 1433-115 & 4 1436-034)	2
3124-062	18	Piston Complete with Rings, Pin & Circlips	4
3188-082		Set of Piston & Scraper Rings (includes 2 3125-124 + 2 3125-129)	2
3112-076	19-4	Cylinder Liner Complete	4
2122-023	19B-1	Unloader Pin	24
2142-034	19C-1	Spring for Unloader Pin	24
3188-081		Set of Suction & Discharge Valves with Springs (includes 20 2141-055, 2 2356-288, 2 2356-289, 2 3131-006 & 2 3131-072)	2
3132-073	19H-2	Suction Valve Retainer	4
3136-079	20-2	Discharge Valve Complete	4
2142-059	21	Spring for Safety Head	4
3142-150	21-1	Oil Pressure Valve Complete	1
1374-132	23-1	Oil Charging Valve	1
3188-065		Service Kit for Stop Valves DN40 & DN50	2
3188-075		Gasket Kit for Connections (includes 1 2356-212 & 1 2353-213)	1
3188-063		Oil Filter Service Kit (includes 1 1331-543, 1 1334-012, 2 1334-025, 2 1433-073, 1 1436-034, 1 1517-124, 1 2353-102, 1 2353-171 1 2353-172, 1 2353-241 & 1 2354-075)	1
3189-111		Service Kit A CMO 24	1
3189-112		Service Kit A CMO 24	1
3189-113		Service Kit A CMO 24	1

We always recommend the use of genuine compressor spares. However, we can offer aftermarket spares, if required. Please state this when sending your enquiry.

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Sabroe CMO26

CFC Refrigerant

PART NO	ITEM NO.	DESCRIPTION	QTY PER COMPRESSOR
3184-286		Set of Washers for Top Cover (includes 60 1436-075 & 36 1436-076)	1
3188-067		Gasket Kit for CMO26/36 Top and Side Cover (includes 1323P077, 1 2353-102, 5 2353-172, 4 2353-241 & 1 2354-075)	1
2132-086	5E-1 & 6E-1	Main Bearings	2
3188-069		Gasket Set CMO End Cover (includes 1 1331-608, 1 2353-104, 1 2353-118, 1 2353-166, 2 2353-167, 1 2353-168, 1 2353-169 & 1 2353-221)	1
3188-083		Shaft Seal Overhaul Kit (includes 1 3126-165, 1 3126-163, 1 3126-164 & 1 1446-081)	1
3184-423		Oil Pump Complete (includes 4 1413-364, 1 3141-154, 1 1331-568, 2 2132-087 & 1 2353-170)	1
3188-074		Gasket Kit for Unloader Mechanism CMO (includes 2 1331-534 2 1331-535 2 1332-113 2 1332-114 & 2 3135-171)	3
3123-076	17-1	Con Rod Complete Standard Size	6
3184-438		Assembly kit for Con Rods (includes 4 1433-115 & 4 1436-034)	3
3124-062	18	Piston Complete with Rings, Pin & Circlips	6
3188-082		Set of Piston & Scraper Rings (includes 2 3125-124 + 2 3125-129)	3
3112-076	19-4	Cylinder Liner Complete	6
2122-023	19B-1	Unloader Pin	36
2142-034	19C-1	Spring for Unloader Pin	36
3188-081		Set of Suction & Discharge Valves with Springs (includes 20 2141-055, 2 2356-288, 2 2356-289, 2 3131-006 & 2 3131-072)	3
3132-073	19H-2	Suction Valve Retainer	6
3136-079	20-2	Discharge Valve Complete	6
2142-059	21	Spring for Safety Head	6
3142-150	21-1	Oil Pressure Valve Complete	1
1374-132	23-1	Oil Charging Valve	1
3188-065		Service Kit for Stop Valves DN40 & DN50	2
3188-075		Gasket Kit for Connections (includes 1 2356-212 & 1 2353-213)	1
3188-063		Oil Filter Service Kit (includes 1 1331-543, 1 1334-012, 2 1334-025, 2 1433-073, 1 1436-034, 1 1517-124, 1 2353-102, 1 2353-171, 1 2353-172, 1 2353-241 & 1 2354-075)	1
3189-115		Service Kit A CMO 26	1
3189-116		Service Kit A CMO 26	1
3189-117		Service Kit A CMO 26	1

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Sabroe CM028

CFC Refrigerant

PART NO	ITEM NO.	DESCRIPTION	QTY PER COMPRESSOR
3184-287		Set of Washers for Top Cover (includes 72 1436-075 & 36 1436-076)	1
3188-068		Gasket Kit for CM026/36 Top and Side Cover (includes 5 1323P077, 1 2353-102, 6 2353-172, 5 2353-241 & 1 2354-075)	1
2132-086	5E-1 & 6E-1	Main Bearings	2
3188-069		Gasket Set CMO End Cover (includes 1 1331-608, 1 2353-104, 1 2353-118, 1 2353-166, 2 2353-167, 1 2353-168, 1 2353-169 & 1 2353-221)	1
3188-083		Shaft Seal Overhaul Kit (includes 1 3126-165, 1 3126-163, 1 3126-164 + 1 1446-081)	1
3184-423		Oil Pump Complete (includes 4 1413-364, 1 3141-154, 1 1331-568, 2 2132-087 & 1 2353-170)	1
3188-074		Gasket Kit for Unloader Mechanism CMO (includes 2 1331-534 2 1331-535 2 1332-113 2 1332-114 & 2 3135-171)	4
3123-076	17-1	Con Rod Complete Standard Size	8
3184-438		Assembly kit for Con Rods (includes 4 1433-115 & 4 1436-034)	4
3124-062	18	Piston Complete with Rings, Pin & Circlips	8
3188-082		Set of Piston & Scraper Rings (includes 2 3125-124 + 2 3125-129)	4
3112-076	19-4	Cylinder Liner Complete	8
2122-023	19B-1	Unloader Pin	48
2142-034	19C-1	Spring for Unloader Pin	48
3188-081		Set of Suction & Discharge Valves with Springs (includes 20 2141-055, 2 2356-288, 2 2356-289, 2 3131-006 & 2 3131-072)	4
3132-073	19H-2	Suction Valve Retainer	8
3136-079	20-2	Discharge Valve Complete	8
2142-059	21	Spring for Safety Head	8
3142-150	21-1	Oil Pressure Valve Complete	1
1374-132	23-1	Oil Charging Valve	1
3188-065		Service Kit for Stop Valves DN40 & DN50	2
3188-075		Gasket Kit for Connections (includes 1 2356-212 & 1 2353-213)	1
3188-063		Oil Filter Service Kit (includes 1 1331-543, 1 1334-012, 2 1334-025, 2 1433-073, 1 1436-034, 1 1517-124, 1 2353-102, 1 2353-171, 1 2353-172, 1 2353-241 & 1 2354-075)	1
3189-119		Service Kit A CMO 28	1
3189-120		Service Kit A CMO 28	1
3189-121		Service Kit A CMO 28	1

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Sabroe SMC104S MK4

CFC Refrigerant

PART NO	ITEM NO.	DESCRIPTION	QTY PER COMPRESSOR
3188-119		Gasket Kit SMC104 Mk 4 Top & Side Cover (includes 1 1331-571, 4 2353-189 & 1 2354-105)	1
2132-021	5C + 6C-1	Main Bearing Standard Size	2
3188-132		Gasket Set for Main Bearings SMC 104-108 MK 3 (includes 1 1331-597, 1 2353-005, 1 2353-011, 1 2353-225, 1 2353-226, 1 2353-227 & 1 2353-228)	1
3188-029		Shaft Seal Service Kit	1
3188-696		Service Kit for Unloader Frame SMC 100 MK4	2
3184-216	13A-1	Unloader Frame Complete	2
3135-060	14A-1	Bracket With Pin	4
3184-484		Kit LP Rocker and Springs SMC 100 MK4	2
3123-004	17-1	Con Rod Complete with SE & BE Bearings SMC	4
3188-090		Service Kit For Con Rod BE Standard Bearings (includes 4 1433-116 + 4 2133-003)	2
3184-437	17B-1	Service Kit for SE Bearings SMC (includes 4 1437-150, 4 2111-068 & 2 2132-004)	2
3124-002	18-1	Piston S Complete with Pin, Rings & Circlips (For Short Stroke Model Only)	2
3188-028		Set of Piston Rings (includes 2 3125-065 & 4 3125-130)	2
3112-065	19A-1	Liner Bare Model S & L	4
3188-027		Service Kit Suction & Discharge Valve Ring Plates including valve rings, gaskets and springs	2
3142-150	22A-1	Oil Pressure Valve	1
3188-111		Oil Filter Kit SMC Mk 4	1

This model of compressor has been upgraded and some items now have several alternatives. Please always state compressor number and refrigerant.

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Sabroe SMC 106S MK4

CFC Refrigerant

PART NO	ITEM NO.	DESCRIPTION	QTY PER COMPRESSOR
3188-120		Gasket Kit SMC108 Mk 4 Top & Side Cover (includes 1 1331-571, 1 1331-697, 6 2353-189 & 1 2354-105)	1
2132-021	5C + 6C-1	Main Bearing Standard Size	2
3188-132		Gasket Set for Main Bearings SMC 104-108 MK 3 (includes 1 1331-597, 1 2353-005, 1 2353-011, 1 2353-225, 1 2353-226, 1 2353-227 & 1 2353-228)	1
3188-029		Shaft Seal Service Kit	1
3188-696		Service Kit for Unloader Frame SMC 100 MK4	3
3184-216	13A-1	Unloader Frame Complete	3
3135-060	14A-1	Bracket With Pin	6
3184-484		Kit LP Rocker and Springs SMC 100 MK4	3
3123-004	17-1	Con Rod Complete with SE & BE Bearings SMC	6
3188-090		Service Kit For Con Rod BE Standard Bearings (includes 4 1433-116 + 4 2133-003)	3
3184-437	17B-1	Service Kit for SE Bearings SMC (includes 4 1437-150, 4 2111-068 & 2 2132-004)	3
3124-002	18-1	Piston S Complete with Pin, Rings & Circlips (For Short Stroke Model Only)	6
3188-028		Set of Piston Rings (includes 2 3125-065 & 4 3125-130)	3
3112-065	19A-1	Liner Bare Model S & L	6
3188-027		Service Kit Suction & Discharge Valve Ring Plates including valve rings, gaskets and springs	3
3142-150	22A-1	Oil Pressure Valve	1
3188-111		Oil Filter Kit SMC Mk 4	1

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Sabroe SMC108S MK4

CFC Refrigerant

PART NO	ITEM NO.	DESCRIPTION	QTY PER COMPRESSOR
3188-121		Gasket Kit SMC108 Mk4 Top & Side Cover (includes 1 1331-571, 1 1331-697, 6 2353-189 & 1 2354-105)	1
2132-021	5C + 6C-1	Main Bearing Standard Size	
3188-132		Gasket Set for Main Bearings SMC 104-108 Mk 3 (includes 1 1331-587, 1 2353-005, 1 2353-011, 1 2353-225, 1 2353-226, 1 2353-227 & 1 2353-228)	
3188-029		Shaft Seal Service Kit	
3188-696		Service Kit for Unloader Frame SMC100 Mk4	
3184-216	13A-1	Unloader Frame Complete	
3135-060	14A-1	Bracket with Pin	
3184-484		Kit LP Rocker and Springs SMC100 Mk4	
3123-004	17-1	Con Rod Complete with SE & BE Bearings SMC	
3188-090		Service Kit for Con Rod BE Standard Bearings (includes 4 1433-166 + 4 2133-003)	
3184-437	17B-1	Service Kit for Con Rod SE Bearings SMC (includes 4 1437-150, 4 2111-068 & 2 2132-004)	
3124-002	18-1	Piston S Complete with Pin, Rings & Circlips (For Short Stroke Model Only)	
3188-028		Set of Piston Rings (includes 2 3125-065 & 4 3125-130)	
3112-065	19A-1	Liner Bare Model S & L	
3188-027		Service Kit Suction & Discharge Valve Ring Plates including valve rings, gaskets and springs	
3142-150	22A-1	Oil Pressure Valve	
3188-111		Oil Filter Kit SMC Mk4	

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Section B

Thermostatic expansion valves,
solenoid valves and pressure regulators

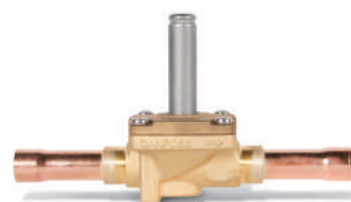
Danfoss Solenoid Valves

We can supply EVR solenoid valves that are suitable for HFC, CFC and HCFCs, and have a temperature range of -40°C – 105°C. When ordering, please ensure you check the duty requirements.

PART NO	MODEL	CONNECTIONS
032F8107	EVR-3	1/4 Flare
032F8116	EVR-3	3/8
032F8072	EVR-6	3/8
032F8079	EVR-6	1/2
032F8095	EVR-10	1/2
032F8098	EVR-10	5/8
032F8101	EVR-15	5/8



PART NO	MODEL	CONNECTIONS
032F1206	EVR-3S	1/4 Solder
032F1204	EVR-3S	3/8
032F1212	EVR-6S	3/8
032F1209	EVR-6S	1/2
032F1217	EVR-10S	1/2
032F1214	EVR-10S	5/8
032F1228	EVR-15S	5/8
032F1225	EVR-15S	7/8
032F1240	EVR-20S	7/8
032F1244	EVR-20S	1-1/8
032F2201	EVR-25S	1-1/8
032F2208	EVR-25S	1-3/8
042H1112	EVR-40S	2-1/8



Danfoss Coil

with Cable

PART NO	MODEL	DESCRIPTION
018F6252	EV 240-Cable	240 Volt 50Hz with cable
018F6192	Coil with Cable	110v 50/60Hz
018F6193	Coil with Cable	220v 50/60Hz

Danfoss Coil

without Terminal Box (230V DC)

PART NO	MODEL	DESCRIPTION
018F6991	EV-230V-DC	230 Volt 50Hz without Terminal Box

Danfoss Coil

with Terminal Box (Coil voltage options listed below)

PART NO	DESCRIPTION
018F6707	24 Volt 50 Hz
018F6730	110 Volt 50 Hz
018F6732	240 Volt 50 Hz
018F6701	220/230 Volt 50 Hz
018F6857	24 Volt D.C.

Danfoss Repair Kits

PART NO	DESCRIPTION
032F0181	Repair Kit for EVR3
032F8166	Repair Kit for EVR6
032F0185	Repair Kit for EVR10
032F0187	Repair Kit for EVR15
032F0189	Repair Kit for EVR20
032F8196	Seal Kit for EVR2,3,10 & 15
032F8165	Seal Kit for EVR06

Solenoid Valves for Refrigerant

Type SEV

- 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(SEV-502 and 603)
- Can install horizontally and vertically (coil should be located above the axis of pipe line)

PART NO	PORT SIZE (MM)	COPPER	DESCRIPTION
SEV-502BFX	5	1/4"	Solenoid Valve
SEV-502BYF	5	1/4"	Solenoid Valve
SEV-603BFX	6	3/8"	Solenoid Valve
SEV-603BYF	6	3/8"	Solenoid Valve
SEV-1004BFX	10	1/2"	Solenoid Valve
SEV-1004BYF	10	1/2"	Solenoid Valve
SEV-1205BFX	12	5/8"	Solenoid Valve
SEV-1205BYF	12	5/8"	Solenoid Valve
SEV-1506BFX	15	3/4"	Solenoid Valve
SEV-1506BYF	15	3/4"	Solenoid Valve
SEV-502DXF	5	1/4"	Solenoid Valve
SEV-502DYF	5	1/4"	Solenoid Valve
SEV-603DXF	6	3/8"	Solenoid Valve
SEV-603DYF	6	3/8"	Solenoid Valve
SEV-1004DXF	10	1/2"	Solenoid Valve
SEV-1004DYF	10	1/2"	Solenoid Valve
SEV-1205DXF	12	5/8"	Solenoid Valve
SEV-1205DYF	12	5/8"	Solenoid Valve
SEV-1506DXF	15	3/4"	Solenoid Valve
SEV-1506DYF	15	3/4"	Solenoid Valve
SEV-110V	Coil (110v)		
SEV-220V	Coil (110v)		



Danfoss Expansion Valves

We can provide a variety of expansion valve spares suitable for many different requirements and applications.

Internally Equalised

PART NO	EXPANSION VALVE BODY	REFRIGERANT	CONNECTION
068Z3206	TX	R22	3/8 x 1/2 Flare
068Z3346	TN2	R134a	
068Z3400	TS2	R404A	
068Z3715	T2	R407F/R407A	
068Z3727	T2	R448A/R449A	
068Z3383	TN2	R134a	3/8 X 1/2 Solder
068Z3414	TS2	R404A	
068Z3502	TZ2	R407C	
068Z3729	TS2	R448A/R449A	

Externally Equalised

PART NO	EXPANSION VALVE BODY	REFRIGERANT	CONNECTION
068Z3209	TEX	R22	3/8 x 1/2 Flare
068Z3348	TEN2	R134a	
068Z3403	TES2	R404A	
068Z3501	TEZ2	R407C	
068Z3714	TE2	R407F/R407A	
068Z3728	TE2	R448A/R449A	
068Z3385	TEN2	R134a	3/8 x 1/2 Solder
068Z3415	TES2	R404A	
068Z3446	TEZ2	R407C	
068Z3730	TE2	R448A/R449A	
068Z3713	TE2	R407F/R407A	

Orifice to suit T2 and TE2 Valves

PART NO	ORIFICE
068-2002	0X Orifice
068-2003	00 Orifice
068-2010	01 Orifice
068-2015	02 Orifice
068-2006	03 Orifice
068-2007	04 Orifice
068-2008	05 Orifice
068-2009	06 Orifice

Orifice to suit T2 and TE2 Solder Valves Only

PART NO	ORIFICE
068-2089	0X Orifice
068-2090	00 Orifice
068-2091	01 Orifice
068-2092	02 Orifice
068-2093	03 Orifice
068-2094	04 Orifice
068-2095	05 Orifice
068-2096	06 Orifice



Technical data ordering

Orifice assembly

VALVE TYPE	R22 RATED CAPACITY RANGE N -40°C TO 10°C KW	R22 RATED CAPACITY RANGE B -60°C TO T-25°C KW	R407C RATED CAPACITY RANGE N -40°C TO 10°C KW	R134A RATED CAPACITY RANGE N -40°C TO T10°C KW	R404A/507 RATED CAPACITY RANGE N -40°C TO 10°C KW	R404A/507 RATED CAPACITY RANGE B -60°C TO TO 25°C KW	ORIFICE NO.	PART NO.
TE-5	11.1	6.4	10.8	7.0	8.7	5.7	0.5	067B2788
TE-5	18.8	11.0	18.3	12.0	14.6	9.9	1	067B2789
TE-5	26.1	15.8	25.6	16.9	20.1	14.4	2	067B2790
TE-5	33.9	19.5	33.0	21.7	26.3	17.3	3	067B2791
TE-5	44.8	25.9	43.9	29.0	34.6	22.9	4	067B2792
TE-12	60.0	35.6	58.8	39.0	50.6	24.2	5	067B2708
TE-12	72.7	42.0	71.2	47.5	61.0	28.4	6	067B2709
TE-12	84.5	46.4	81.4	55.8	70.6	31.0	7	067B2710
TE-20	113.6	55.0	104.0	69.5	77.6	43.8	8	067B2771
TE-20	131.5	57.5	113.5	78.4	84.5	44.0	9	067B2773
TE-55	156.3	68.2	148.4	102.8	118.4	52.3	10	067G2701
TE-55	190.0	77.8	177.4	124.7	143.2	58.9	11	067G2704
TE-55	228.8	95.3	215.3	154.7	170.3	71.0	12	067G2707
TE-55	281.0	131.4	273.6	190.8	209.8	100.2	13	067G2710

The rated capacity is based on:

Evaporating temperature	te = +4°C for range N and te = -30°C for range B
Condensing temperature	tc = +38°C
Refrigerant temperature ahead of valve	tl = +37°C

Valve body

TYPE	CONNECTION INLET X OUTLET		PART NO			
	in.	mm	Flare angleway	Solder angleway	Solder straightway	Solder flanges
TE 5	1/2 x 5/8		067B4013	067B4009 ¹⁾	067B4007 ¹⁾	
	1/2 x 7/8			067B4010 ¹⁾	067B4008 ¹⁾	
	5/8 x 7/8			067B4011 ¹⁾	067B4032 ¹⁾	
	7/8 x 1 1/8			067B4034 ²⁾	067B4033 ²⁾	
TE 5		12 x 16	067B4013	067B4004 ¹⁾	067B4002 ¹⁾	
		12 x 22		067B4005 ¹⁾	067B4003 ¹⁾	
		16 x 22		067B4012 ¹⁾	067B4035 ¹⁾	
		22 x 28		067B4037 ²⁾	067B4036 ²⁾	
TE 12	5/8 x 7/8			067B4023 ²⁾	067B4021 ²⁾	067B4025 ¹⁾
	7/8 x 1					067B4026 ¹⁾
TE 12	7/8 x 1 1/8					
		16 x 22		067B4017 ²⁾	067B4016 ²⁾	067B4027 ¹⁾
		22 x 25				067B4015 ¹⁾
TE 20	7/8 x 1 1/8	22 x 28		067B4023 ²⁾	067B4021 ²⁾	
				067B4017 ²⁾	067B4016 ²⁾	
TE 55	1 1/8 x 1 3/8	28 x 35		067G4004 ³⁾	067G4003 ³⁾	
				067G4002 ³⁾	067G4001 ³⁾	

¹⁾ ODF x ODF ODF = Internal Diameter ODM = External Diameter

²⁾ ODF x ODM

³⁾ ODM x ODM

Technical data and ordering

Thermostatic element including bulb strap R407C

VALVE TYPE	PRESSURE EQUALISATION 1/4IN. / 6MM	CAPILLARY TUBE M	PART NO RANGE N -40 TO +10°C WITHOUT MOP MOP +15°C	
TEZ5	EXTERNAL	3	067B3278	067B3277
TEZ12	EXTERNAL	3	067B3366	067B3367
TEZ20	EXTERNAL	3	067B3371	067B3372
TEZ55	EXTERNAL	3	067G3240	067G3241

Thermostatic element including bulb strap R134a

VALVE TYPE	PRESSURE EQUALISATION 1/4IN. / 6MM	CAPILLARY TUBE M	PART NO RANGE N -40 TO +10°C RANGE NM -40 TO -5°C WITHOUT MOP MOP +15°C MOP 0°		
TEN 5	EXTERNAL	3	067B3297	067B3298	067B3360
TEN 12	EXTERNAL	3	067B3232	067B3233	
TEN 12	EXTERNAL	5	067B3363		
TEN 20	EXTERNAL	3	067B3292	067B3293	
TEN 20	EXTERNAL	5	067B3370		
TEN 55	EXTERNAL	3	067G3222	067G3223	
TEN 55	EXTERNAL	5	067G3230		

Thermostatic element including bulb strap R404A/R507

VALVE TYPE	PRESSURE EQUALISATION 1/4IN. / 6MM	CAPILLARY TUBE M	PART NO RANGE N -40 TO +10°C WITHOUT MOP MOP +15°C		RANGE NM -40 TO -5°C MOP 0°C	RANGE NL -40 TO 15°C MOP -10°C	RANGE B -60 TO -25°C WITHOUT MOP	MOP -20°C
TES 5	EXTERNAL	3	067B3342	067B3357	067B3358	067B3344	067B3343	
TES 12	EXTERNAL	3	067B3347	067B3345	067B3348		067B3349	
TES 12	EXTERNAL	5	067B3346				067B3350	
TES 20	EXTERNAL	3	067B3352	067B3351	067B3353		067B3354	
TES 20	EXTERNAL	5	067B3356				067B3355	
TES 55	EXTERNAL	3	067G3302	067G3303	067G3304		067G3305	
TES 55	EXTERNAL	5	067G3301				067G3306	

Thermostatic element including bulb strap R22/R407C

VALVE TYPE	PRESSURE EQUALISATION 1/4IN. / 6MM	CAPILLARY TUBE M	PART NO RANGE N -40 TO +10°C WITHOUT MOP MOP +15°C		RANGE NM -40 TO -5°C MOP 0°C	RANGE NL -40 TO 15°C MOP -10°C	RANGE B -60 TO -25°C WITHOUT MOP	MOP -20°C
TEX 5	EXTERNAL	3	067B3250	067B3267	067B3249	067B3253	067B3263	067B3251
TEX 12	EXTERNAL	3	067B3210	067B3227	067B3207	067B3213		067B3211
TEX 12	EXTERNAL	5	067B3209					067B3212
TEX 20	EXTERNAL	3	067B3274	067B3286	067B3273	067B3275		067B3276
TEX 20	EXTERNAL	5	067B3290					067B3287
TEX 55	EXTERNAL	3	067G3205	067G3220	067G3206			067G3207
TEX 55	EXTERNAL	5	067G3209					067G3217

Bulb strap (delivered with the valve) and spare

TYPE	LENGTH	MAX. DIAMETER OF SUCTION LINE	PART NO
TE5 and TE12	225mm	2 1/8" (54mm)	067N0558
TE20 and TE55	350MM	3 1/2" (89mm)	067N0559

Technical data and ordering

Type Number Selection (Specifications)

TYPE	MODEL	CONNECTION	REFRIGERANT	CHARGE	INLET	OUTLET	WT. (KG)
ATX-	34006	B(Flare or D(Solder))	V(R410A)		3/8" [3/8"OD]	1/2" [1/2"OD]	1.2
	34013	B(Flare or D(Solder))			3/8" [3/8"OD]	1/2" [1/2"OD]	1.2
	34023	B(Flare or D(Solder))			3/8" [3/8"OD]	1/2" [1/2"OD]	1.2
	34035	B(Flare or D(Solder))	P(R407C)		3/8" [3/8"OD]	1/2" [1/2"OD]	1.2
	34045	B(Flare or D(Solder))			3/8" [3/8"OD]	1/2" [1/2"OD]	1.2
	57060	D(Solder)	U(R404A)	S(R134a)(R22)(R404A)(R407C)	5/8" OD or 7/8" ID	7/8" OD or 1-1/8" ID	1.3
	57080	D(Solder)			5/8" OD or 7/8" ID	7/8" OD or 1-1/8" ID	1.3
	71110	D(Solder)	G L(R22)	C, CL(R22)(R410A)	5/8" OD or 7/8" ID	7/8" OD or 1-1/8" ID	1.3
	71140	D(Solder)			5/8" OD or 7/8" ID	7/8" OD or 1-1/8" ID	1.3
	71160	D(Solder)	H(R22)	S(R134a)(R22)(R404A)(R407C)	5/8" OD or 7/8" ID	7/8" OD or 1-1/8" ID	1.3
	12220	D(Solder)			1" OD or 1-1/4" ID	1" OD or 1-1/4" ID	1.5
	12270	D(Solder)	M(R134a)	SL(R404A)	1" OD or 1-1/4" ID	1" OD or 1-1/4" ID	1.5
	12330	D(Solder)			1" OD or 1-1/4" ID	1" OD or 1-1/4" ID	1.5
	12420	D(Solder)			1" OD or 1-1/4" ID	1" OD or 1-1/4" ID	1.5
	12500	D(Solder)			1" OD or 1-1/4" ID	1" OD or 1-1/4" ID	1.5

- Capillary tube length: 2000mm for S-charge valve as standard
- Capacity: Based on condensing temp. 38°C and evaporating temp. 5°C. (-30°C for SL-charge)
- External equalizer: 1/4" flare (for all flare outlet bodies) solder[D] (for all solder outlet bodies)

Extreme Low Temperature Model (-70°C to -40°C)

TYPE	MODEL	CONNECTION	REFRIGERANT	CHARGE
ATX-	34006	B (Flare) or D (Solder)	H (R22)	CY (Extreme Low)
	34013	B (Flare) or D (Solder)	H (R22)	CY (Extreme Low)
	34023	B (Flare) or D (Solder)	H (R22)	CY (Extreme Low)
	34035	B (Flare) or D (Solder)	H (R22)	CY (Extreme Low)
	34045	B (Flare) or D (Solder)	H (R22)	CY (Extreme Low)
	57060	B (Flare) or D (Solder)	H (R22)	CY (Extreme Low)
	57080	B (Flare) or D (Solder)	H (R22)	CY (Extreme Low)

ALCO Expansion Valve Spares

We can provide a variety of expansion valve spares to suit many different requirements and applications.

Standard Power Assemblies

REFRIGERANT	PART NO	MODEL NO.
R134a	802947	XB 1019MW-1B
R134a	803379	XB 1019MW55-1B
R134a	803381	XB 1019MW35-1B
R134a	803384	XC 726MW-2B
R134a	803391	XC 726MW55-2B
R134a	803436	XC 726MW35-2B
R404A/507	803443	XB 1019SW-1B
R404A/507	803452	XB 1019SW40-1B
R404A/507	803474	XB 1019SW55-1B
R404A/507	803454	XB 1019SW80-1B
R404A/507	803451	XC 726SW-2B
R404A/507	803456	XC 726SW40-2B
R404A/507	803476	XC 726SW55-2B
R404A/507	803457	XC 726SW80-2B
R22	802931	XB 1019HW-1B
R22	803043	XB 1019HW100-1B
R22	803039	XB 1019HW65-1B
R22	803035	XB 1019HW35-1B
R22	802933	XC 726HW-2B
R22	803070	XC 726HW100-2B
R22	803067	XC 726HW65-2B
R22	803065	XC 726HW35-2B
R407C	803480	XB 1019NW-1B
R407C	803482	XB 1019NW100-1B
R407C	803484	XC 726NW-2B
R407C	803485	XC 726NW100-2B

Non-Standard Power Assemblies

REFRIGERANT	PART NO	MODEL NO.
R134a	803392	XB 1019MW-2B
R134a	803439	XB 1019MW55-2B
R134a	802803	XB 1019MW35-2B
R134a	803433	XB 1019MW55-4B
R134a	803441	XC 726MW55-4B
R404A/507	803455	XB 1019SW80-2B
R404A/507	803453	XB 1019SW40-2B
R22	803054	XB 1019HW100-2B
R22	803049	XB 1019HW65-2B
R22	803047	XB 1019HW35-2B
R22	803061	XB 1019HW100-4B
R22	803060	XB 1019HW65-4B
R22	802847	XC 726HW-4B
R22	803080	XC 726HW100-4B
R22	803078	XC 726HW65-4B
R407C	803481	XB 1019NW-2B
R407C	803483	XB 1019NW100-2B



ALCO Expansion Valve Spares

We can provide a variety of expansion valve spares to suit many different requirements and applications.

Orifice Cages

PART NO	MODEL NO.	VALVE TYPE
803210	X22440-B1B	TCLE/LCLE1/LCLE3/LCLE4
803211	X22440-B2B	TCLE/LCLE1/LCLE3/LCLE4
803212	X22440-B3B	TCLE/LCLE1/LCLE3/LCLE4
803462	X22440-B35B	TCLE/LCLE1/LCLE3/LCLE4
803213	X22440-B4B	TCLE/LCLE1/LCLE3/LCLE4
803214	X22440-B5B	TCLE/LCLCE/CPHE1
803215	X22440-B6B	TCLE/LCLCE/CPHE1
803216	X22440-B7B	TCLE/LCLE
803217	X22440-B8B	TCLE/LCLE
803348	X11873-B4B	TJRE/LJRE
803349	X11873-B5B	TJRE/LJRE/CPHE3
803341	X9117-B6B	TERE/LERE
803342	X9117-B7B	TERE/LERE/CPHE3.5
803343	X9117-B8B	TERE/LERE
803344	X9117-B9B	TERE/LERE/CPHE4
803347	X9166-B10B	TIRE/LIRE/CPHE5
803345	X9144-B11B	THRE
803346	X9144-B13B	THRE/CPHE6

Flanges

PART NO	MODEL NO.	CONNECTIONS
803232	C501-5	3/8" x 5/8" sw angle
803240	9761-3	3/8" x 5/8" sw straight
803234	C501-7	1/2" x 5/8" sw angle
803238	A576	5/8" x 7/8" sw angle
803338	10331	7/8" x 7/8" sw angle
803324	10332	7/8" x 7/8" sw straight
803244	9153	7/8" x 7/8" sw angle
803286	9152	7/8" x 7/8" sw straight
803284	9149	7/8" x 7/8" sw angle
029512	9148	7/8" x 7/8" sw straight

Cage Gasket Set

PART NO	MODEL NO.
027579	X13455



Section C

Driers and sight glasses



We can supply a range of dryers to suit many applications.

Copper Spun Driers

Suitable for HFC, CFC and HCFC

PART NO	SIZE	CONNECTION
MSCD-5-3	5 Gram	3/16" x 0.092"
MSCD-15-3	15 Gram	3/16" x 0.092"
MSCD-15-4	15 Gram	1/4" x 0.092"
MSCD-20	20 Gram	1/4" x 0.092"
MSCD-30	30 Gram	1/4" x 0.092"
MCCD-20S	20 Gram	1/4" x 1/4"
MMS-200	20 Gram	1/4" x 1/4"
ATC300-XT95	30 Gram	1/4" x 1/4"



Copper Spun Drier

With 1/4" Male Flare Charging Stub

PART NO	CONNECTIONS	
DXA-5	1/4 x 1/4	1.5 ton (5Kw) capacity 235mm long x 25mm diameter

Kap Kit

One-piece drier and capillary, which enables quick and easy replacement

PART NO	APPLICATION
KK1L-25	LBP 0.08 to 0.15kW
KK2L-25	LBP 0.18 to 0.37kW
KK1H-25	HBP 0.08 to 0.15kW
KK2H-25	HBP 0.18 to 0.38kW

Two-way Heat Pump Driers

PART NO	FLARE CONNECTION
HPC-103F	3/8
HPC-104F	1/2

PART NO	SOLDER CONNECTION
HPC-103S	3/8
HPC-104S	1/2



Filter Drier – DCL

PART NO	TYPE	CONNECTION	
		IN	MM
023Z5000	DCL 032	1/4	6
023Z5075	DCL 032	1/4	6
023Z5001	DCL 033	3/8	10
023Z5089	DCL 033	3/8	10
023Z5002	DCL 052	1/4	6
023Z5003	DCL 053	3/8	10
023Z5004	DCL 082	1/4	6
023Z5005	DCL 083	3/8	10
023Z5006	DCL 084	1/2	12
023Z5007	DCL 162	1/4	6
023Z5008	DCL 163	3/8	10
023Z5009	DCL 164	1/2	12
023Z5010	DCL 165	5/8	16
023Z5011	DCL 166	3/4	19
023Z0012	DCL 303	3/8	10
023Z0013	DCL 304	1/2	12
023Z0014	DCL 305	5/8	16
023Z0156	DCL 306	3/4	19
023Z0102	DCL 414	1/2	12
023Z0103	DCL 415	5/8	16



Filter Drier – DML

PART NO	TYPE	CONNECTION	
		IN	MM
023Z5035	DML 032	1/4	6
023Z5036	DML 033	3/8	10
023Z5090	DML 033	3/8	10
023Z5037	DML 052	1/4	6
023Z5038	DML 053	3/8	10
023Z5039	DML 082	1/4	6
023Z5040	DML 083	3/8	10
023Z5041	DML 084	1/2	12
023Z5073	DML 085	5/8	16
023Z5042	DML 162	1/4	6
023Z5043	DML 163	3/8	10
023Z5044	DML 164	1/2	12
023Z5045	DML 165	5/8	16
023Z5046	DML 166	3/4	19
023Z0049	DML 303	3/8	10
023Z0050	DML 304	1/2	12
023Z0051	DML 305	5/8	16
023Z0193	DML 306	3/4	19
023Z0189	DML 385	5/8	16
023Z0108	DML 413	3/8	10
023Z0109	DML 414	1/2	12
023Z0110	DML 415	5/8	16
023Z0195	DML 416	3/4	19



Filter Drier - DCL Solder (Copper)

PART NO	TYPE	CONNECTION INCHES
-	DCL 1.52XL/2.8mm s	1/4
023Z5012	DCL 032s	1/4
023Z5014	DCL 032.5s	5/16
023Z5015	DCL 033s	3/8
023Z5018	DCL 052s	1/4
023Z5019	DCL 053s	3/8
023Z5022	DCL 082s	1/4
023Z5023	DCL 083s	3/8
023Z5026	DCL 084s	1/2
023Z5145	DCL 085s	5/8
023Z5028	DCL 162s	1/4
023Z5029	DCL 163s	3/8
023Z5032	DCL 164s	1/2
023Z5033	DCL 165s	5/8
023Z5070	DCL 166s	3/4
023Z5034	DCL 167s	7/8
023Z0030	DCL303s	3/8
023Z0031	DCL304s	1/2
023Z0032	DCL305s	5/8
023Z0033	DCL306s	3/4
023Z0034	DCL307s	7/8
023Z0035	DCL309s	1 1/8
023Z0104	DCL414s	1/2
023Z0105	DCL415s	5/8
023Z0106	DCL417s	7/8
023Z0107	DCL419s	1 1/8
023Z0036	DCL607s	7/8
023Z0037	DCL609s	1 1/8
023Z0115	DCL757s	7/8
023Z0116	DCL759s	1 1/8



Danfoss Drier Cores

- 48-DC:** Solid core consisting of 3A molecular sieves – compatible with R22/ R134a /R404A / R507
- 48-DM:** Solid core with 100% 3A molecular sieve – compatible with R134a / R404A / R407C
- 48-DA:** Solid core with high acid absorption and standard water absorption
- 48-F:** Strainer for use in suction or liquid lines – compatible with all fluorinated refrigerants

PART NO	MODEL	TYPE
023U4381	48-DC	Solid core moisture & acid absorption
023U1392	48-DM	100% molecular sieve – high moisture absorption
023U5381	48-DA	Burn out acid absorption
023U1921	48-F	Strainer

Drier Cores

- H-48:** Standard core, suitable for liquid and suction line applications
- RC-4864-HH:** For removal of wax on low-temp systems and clean up after motor burn-out
- RCW-48:** Designed for use with POE oils on systems heavily contaminated with water
- RC-10098:** Standard core suitable for liquid and suction line applications
- RPE-48-BD:** To be used in RSF shell installed in suction line, to obtain lowest possible pressure drop, after cores were used for system clean up
- RCW-42:** For use on systems that have a ruptured water-cooled condenser, exposed to atmosphere, or with high levels of moisture in system

PART NO	MODEL	TYPE
H-48 C662	RC-4864	Standard Core (95x140mm)
C664	RC-4864-HH	Activated charcoal core
H-100	RCW-48	High water
C668 C670	RC-10098	Standard
	RPE-48-BD	Filter Element
	RCW-42	High Water Capacity Core



Eliminator Filter Drier with Replaceable Solid Core – DCR

PART NO	TYPE	NO. OF CORES	CONNECTION	
			IN	MM
023U7250	DCR 0485s	1	5/8	16
023U7251	DCR 0487s	1	7/8	22
023U7571	DCR 0487s	1	7/8	22
023U7252	DCR 0489s	1	-	28
023U7253	DCR 0489s	1	1 1/8	-
023U7254	DCR 04811s	1	1 3/8	28
023U7254	DCR 04811s	1	1 3/8	35
023U7255	DCR 04813s	1	1 5/8	-
023U7256	DCR 04813s	1	-	42
023U7303	DCR04813s	1	-	42
023U7257	DCR 04817s	1	2 1/8	54
023U7276	DCR 04821s	1	2 5/8	-
023U7258	DCR 0967s	2	7/8	22
023U7259	DCR 0969s	2	-	28
023U7260	DCR 0969s	2	1 1/8	-
023U7278	DCR 0969s	2	1 1/8	-
023U7261	DCR 09611s	2	1 3/8	35
023U7262	DCR 09613s	2	1 5/8	-
023U7263	DCR 09613s	2	-	42
023U7463	DCR 09613s	2	-	42
023U7264	DCR 09617s	2	2 1/8	54
023U7290	DCR 09617s	2	2 1/8	54
023U7281	DCR 09621s	2	2 5/8	-
023U7265	DCR 1449s	3	-	28
023U7267	DCR 14411s	3	1 3/8	35
023U7275	DCR 14411s	3	1 3/8	-
023U7282	DCR 14413s	3	1 5/8	-
023U7269	DCR 14413s	3	-	42
023U7297	DCR 14413s	3	1 5/8	42
023U7270	DCR 14417s	3	2 1/8	54
023U7083	DCR 19211s	4	1 3/8	-
023U7272	DCR 19213s	4	1 5/8	-
023U7273	DCR 19213s	4	-	42
023U7082	DCR 19213s	4	1 5/8	-
023U7274	DCR 19217s	4	1 1/8	54

*Please note: Drier cores are not included

Sight Glasses

We can offer a range of Danfoss SGP Sight Glasses that are designed to cover higher pressure applications (up to 52 bar). The SGP range is also suitable for R410A, R32 and sub-critical R744.

This also covers the full range of connection types used throughout the entire system, by offering Flare / Male x Female Flare / Solder.

Sight Glass – male to male

PART NO	MODEL	CONNECTIONS
C370	SGP 6	1/4 Flare
C373	SGP 10	3/8 Flare
C376	SGP 12	1/2 Flare
C379	SGP 16	5/8 Flare
C382	SGP 19	3/4 Flare



Sight Glass – male to female

PART NO	MODEL	CONNECTIONS
C371	SGP 6MF	1/4 M x F
C374	SGP 10MF	3/8 M x F
C377	SGP 12MF	1/2 M x f
C380	SGP 16MF	5/8 M x F
C383	SGP 19MF	3/4 M x F



Sight Glass (C x C)

PART NO	MODEL	CONNECTIONS
C372	SGP 6S	1/4 Solder
C375	SGP 10S	3/8 Solder
C378	SGP 12S	1/2 Solder
C381	SGP 16S	5/8 Solder
C384	SGP 19S	3/4 Solder
C385	SGP 22S	7/8 Solder



Sight Glass (Low Pressure) – SG without indicator

PART NO	MODEL	CONNECTION TYPE	CONNECTION IN	CONNECTION MM
014-0037	SG 10s	Solder ODF x ODF	3/8	-
014-1207	SG 22s	Solder ODF x ODF	7/8	22

Sight Glass (Low Pressure) – SGI with I type indicator

PART NO	MODEL	CONNECTION TYPE	CONNECTION IN	CONNECTION MM
014-0007	SGI 6	Flare ext x ext	1/4	6
014-0008	SGI 10	Flare ext x ext	3/8	10
014-0009	SGI 12	Flare ext x ext	1/2	12
014-0024	SGI 16	Flare ext x ext	5/8	16
014-0028	SGI 19	Flare ext x ext	3/4	19
014-0021	SGI 6	Flare int x ext	1/4	6
014-0022	SGI 10	Flare int x ext	3/8	10
014-0025	SGI 12	Flare int x ext	1/2	12
014-0026	SGI 16	Flare int x ext	5/8	16
014-0043	SGI 19	Flare int x ext	3/4	19
014-0034	SGI 6s	Solder ODF x ODF	1/4	-
014-0040	SGI 6s	Solder ODF x ODF	-	6
014-0035	SGI 10s	Solder ODF x ODF	3/8	-
014-0041	SGI 10s	Solder ODF x ODF	-	10
014-0036	SGI 12s	Solder ODF x ODF	1/2	-
014-0042	SGI 12s	Solder ODF x ODF	-	12
014-0044	SGI 16s	Solder ODF x ODF	5/8	16
014-0045	SGI 18s	Solder ODF x ODF	-	18
014-0047	SGI 19s	Solder ODF x ODF	3/4	19
014-0039	SGI 22s	Solder ODF x ODF	7/8	22
014-0125	SGI 6s	Solder ODF x ODM	1/4	-
014-0126	SGI 10s	Solder ODF x ODM	3/8	-
014-0127	SGI 12s	Solder ODF x ODM	1/2	-
014-0128	SGI 16s	Solder ODF x ODM	5/8	16
014-0130	SGI 22s	Solder ODF x ODM	7/8	22



Section D

Copper fittings and brass flare fittings

We supply a wide range of fittings to suit many requirements. This is just a small selection of available fittings. Please contact us for more information.

Couplings

Copper to Copper with Stop

O.D. TUBE	COUPLINGS	PART NO.
3/16"	Copper to Copper with Stop	2001E
1/4"	Copper to Copper with Stop	2002E
3/8"	Copper to Copper with Stop	2004E
1/2"	Copper to Copper with Stop	2005E
5/8"	Copper to Copper with Stop	2006E
3/4"	Copper to Copper with Stop	2007E
7/8"	Copper to Copper with Stop	2008E
1"	Copper to Copper with Stop	2009E
1 1/8"	Copper to Copper with Stop	2010E
1 3/8"	Copper to Copper with Stop	2011E
1 5/8"	Copper to Copper with Stop	2012E
2 1/8"	Copper to Copper with Stop	2013E
2 5/8"	Copper to Copper with Stop	2014E
3 1/8"	Copper to Copper with Stop	2015E
3 5/8"	Copper to Copper with Stop	2016E
4 1/8"	Copper to Copper with Stop	2017E



Couplings

Copper to Copper without Stop

O.D. TUBE	COUPLINGS	PART NO.
1/4"	Copper to Copper without Stop	2068E
13/8"	Copper to Copper without Stop	2070E
1/2"	Copper to Copper without Stop	2071E
5/8"	Copper to Copper without Stop	2072E
7/8"	Copper to Copper without Stop	2074E
1 1/8"	Copper to Copper without Stop	2075E
1 3/8"	Copper to Copper without Stop	2076E
1 5/8"	Copper to Copper without Stop	2077E
2 1/8"	Copper to Copper without Stop	2078E
2 5/8"	Copper to Copper without Stop	2079E
3 1/8"	Copper to Copper without Stop	2080E



Reducers

Copper to Copper

O.D. TUBE	REDUCERS	PART NO.
1/4" x 3/16"	Copper to Copper	2020E
1/4" x 3/16"	Copper to Copper	2020E
5/16" x 1/4"	Copper to Copper	2021E
3/8" x 5/16"	Copper to Copper	2022E
3/8" x 1/4"	Copper to Copper	2023E
1/2" x 3/8"	Copper to Copper	2024E
1/2" x 1/4"	Copper to Copper	2025E
5/8" x 1/2"	Copper to Copper	2026E
5/8" x 3/8"	Copper to Copper	2027E
3/4" x 5/8"	Copper to Copper	2028E
3/4" x 1/2"	Copper to Copper	2029E
3/4" x 3/8"	Copper to Copper	2030E
7/8" x 3/4"	Copper to Copper	2031E
7/8" x 5/8"	Copper to Copper	2032E
7/8" x 1/2"	Copper to Copper	2033E
7/8" x 3/8"	Copper to Copper	2034E
1 1/8" x 7/8"	Copper to Copper	2036E
1 1/8" x 3/4"	Copper to Copper	2037E
1 1/8" x 5/8"	Copper to Copper	2038E
1 1/8" x 1/2"	Copper to Copper	2039E
1 3/8" x 1 1/8"	Copper to Copper	2040E
1 3/8" x 7/8"	Copper to Copper	2041E
1 3/8" x 3/4"	Copper to Copper	2042E
1 3/8" x 5/8"	Copper to Copper	2043E
1 5/8" x 1 3/8"	Copper to Copper	2044E
1 5/8" x 1 1/8"	Copper to Copper	2045E
1 5/8" x 7/8"	Copper to Copper	2046E
1 5/8" x 5/8"	Copper to Copper	2047E
2 1/8" x 1 5/8"	Copper to Copper	2048E
2 1/8" x 1 3/8"	Copper to Copper	2049E
2 1/8" x 1 1/8"	Copper to Copper	2050E
2 1/8" x 7/8"	Copper to Copper	2051E
2 1/8" x 5/8"	Copper to Copper	2052E
2 5/8" x 2 1/8"	Copper to Copper	2053E
2 5/8" x 1 5/8"	Copper to Copper	2054E
2 5/8" x 1 3/8"	Copper to Copper	2055E
2 5/8" x 1 1/8"	Copper to Copper	2056E
3 1/8" x 2 5/8"	Copper to Copper	2057E
3 1/8" x 2 1/8"	Copper to Copper	2058E
3 1/8" x 1 5/8"	Copper to Copper	2059E
3 5/8" x 3 1/8"	Copper to Copper	2060E
4 1/8" x 3 5/8"	Copper to Copper	2061E
4 1/8" x 3 1/8"	Copper to Copper	2062E
4 1/8" x 2 5/8"	Copper to Copper	2063E
4 1/8" x 2 1/8"	Copper to Copper	2064E

Reducers

Fitting to Copper

O.D. TUBE	REDUCERS	PART NO.
3/8" x 1/4"	Fitting to Copper	2088E
1/2" x 3/8"	Fitting to Copper	2089E
1/2" x 1/4"	Fitting to Copper	2090E
5/8" x 1/2"	Fitting to Copper	2091E
5/8" x 3/8"	Fitting to Copper	2092E
3/4" x 5/8"	Fitting to Copper	2093E
3/4" x 1/2"	Fitting to Copper	2096E
3/4" x 3/8"	Fitting to Copper	2097E
7/8" x 3/4"	Fitting to Copper	2098E
7/8" x 5/8"	Fitting to Copper	2099E
7/8" x 1/2"	Fitting to Copper	2100E
7/8" x 3/8"	Fitting to Copper	2101E
1 1/8" x 7/8"	Fitting to Copper	2102E
1 1/8" x 3/4"	Fitting to Copper	2103E
1 1/8" x 5/8"	Fitting to Copper	2104E
1 1/8" x 1/2"	Fitting to Copper	2105E
1 3/8" x 1 1/8"	Fitting to Copper	2106E
1 3/8" x 7/8"	Fitting to Copper	2107E
1 3/8" x 5/8"	Fitting to Copper	2108E
1 5/8" x 1 3/8"	Fitting to Copper	2109E
1 5/8" x 1 1/8"	Fitting to Copper	2110E
1 5/8" x 7/8"	Fitting to Copper	2111E
1 5/8" x 5/8"	Fitting to Copper	2112E
2 1/8" x 1 5/8"	Fitting to Copper	2113E
2 1/8" x 1 3/8"	Fitting to Copper	2114E
2 1/8" x 1 1/8"	Fitting to Copper	2115E
2 1/8" x 7/8"	Fitting to Copper	2116E
2 1/8" x 5/8"	Fitting to Copper	2117E
2 5/8" x 2 1/8"	Fitting to Copper	2118E
2 5/8" x 1 5/8"	Fitting to Copper	2119E
2 5/8" x 1 3/8"	Fitting to Copper	2120E
2 5/8" x 1 1/8"	Fitting to Copper	2121E
3 1/8" x 2 5/8"	Fitting to Copper	2122E
3 1/8" x 2 1/8"	Fitting to Copper	2123E
3 1/8" x 1 5/8"	Fitting to Copper	2124E
3 1/8" x 1 3/8"	Fitting to Copper	2125E
3 5/8" x 3 1/8"	Fitting to Copper	2126E
4 1/8" x 3 5/8"	Fitting to Copper	2127E
4 1/8" x 3 1/8"	Fitting to Copper	2128E
4 1/8" x 2 5/8"	Fitting to Copper	2129E
4 1/8" x 2 1/8"	Fitting to Copper	2130E

45° Elbows

Copper to Copper

O.D. TUBE	ELBOWS	PART NO.
1/4"	Copper to Copper	2238E
3/8"	Copper to Copper	2239E
1/2"	Copper to Copper	2240E
5/8"	Copper to Copper	2241E
3/4"	Copper to Copper	2242E
7/8"	Copper to Copper	2243E
1 1/8"	Copper to Copper	2244E
1 3/8"	Copper to Copper	2245E
1 5/8"	Copper to Copper	2246E
2 1/8"	Copper to Copper	2247E
2 5/8"	Copper to Copper	2248E
3 1/8"	Copper to Copper	2249E
3 5/8"	Copper to Copper	2251E
4 1/8"	Copper to Copper	2250E

Copper to Fitting

O.D. TUBE	ELBOWS	PART NO.
3/8"	Copper to Fitting	2265E
1/2"	Copper to Fitting	2266E
5/8"	Copper to Fitting	2267E
3/4"	Copper to Fitting	2268E
7/8"	Copper to Fitting	2269E
1 1/8"	Copper to Fitting	2270E
1 3/8"	Copper to Fitting	2271E
1 5/8"	Copper to Fitting	2272E
2 1/8"	Copper to Fitting	2273E
2 5/8"	Copper to Fitting	2274E
3 1/8"	Copper to Fitting	2275E

40C Elbows

Copper to Copper

O.D. TUBE	ELBOWS	PART NO.
3/8"	Copper to Copper	2281E
1/2"	Copper to Copper	2282E
5/8"	Copper to Copper	2283E
3/4"	Copper to Copper	2284E
7/8"	Copper to Copper	2285E
1 1/8"	Copper to Copper	2286E
1 3/8"	Copper to Copper	2287E
1 5/8"	Copper to Copper	2288E
2 1/8"	Copper to Copper	2289E
2 5/8"	Copper to Copper	2290E
3 1/8"	Copper to Copper	2291E
3 5/8"	Copper to Copper	2292E
4 1/8"	Copper to Copper	2293E

Copper to Fitting

O.D. TUBE	ELBOWS	PART NO.
1/2"	Copper to Fitting	2448E
5/8"	Copper to Fitting	2449E
7/8"	Copper to Fitting	2451E
1 1/8"	Copper to Fitting	2452E
1 3/8"	Copper to Fitting	2453E
1 5/8"	Copper to Fitting	2454E
2 1/8"	Copper to Fitting	2455E
2 5/8"	Copper to Fitting	2456E
3 1/8"	Copper to Fitting	2457E
3 5/8"	Copper to Fitting	2459E
4 1/8"	Copper to Fitting	2458E

Short Radius

Copper to Copper Reducer

O.D. TUBE	REDUCERS	PART NO.
1 5/8" x 1 3/8"	Copper to Copper	2299E
2 1/8" x 1 5/8"	Copper to Copper	2300E

Fitting to Fitting

O.D. TUBE	FITTINGS	PART NO.
1 5/8" x 1 3/8"	Fitting to Fitting	2299E
2 1/8" x 1 5/8"		2300E

Short Radius Elbow

Fitting to Fitting

O.D. TUBE	ELBOWS	PART NO.
5/8"	Fitting to Fitting	2475E
7/8"	Fitting to Fitting	2464E
1 1/8"	Fitting to Fitting	2465E
1 3/8"	Fitting to Fitting	2466E
1 5/8"	Fitting to Fitting	2467E
2 1/8"	Fitting to Fitting	2468E
2 5/8"	Fitting to Fitting	2469E
3 1/8"	Fitting to Fitting	2470E

90° Elbows Long Radius

Copper to Copper

O.D. TUBE	ELBOW	PART NO.
3/16"	Copper to Copper	2305E
1/4"	Copper to Copper	2306E
5/16"	Copper to Copper	2307E
3/8"	Copper to Copper	2308E
1/2"	Copper to Copper	2309E
5/8"	Copper to Copper	2310E
3/4"	Copper to Copper	2311E
7/8"	Copper to Copper	2312E
1"	Copper to Copper	2313E
1 1/8"	Copper to Copper	2314E
1 3/8"	Copper to Copper	2315E
1 5/8"	Copper to Copper	2316E
2 1/8"	Copper to Copper	2317E
2 5/8"	Copper to Copper	2318E
3 1/8"	Copper to Copper	2319E
3 5/8"	Copper to Copper	2320E
4 1/8"	Copper to Copper	2321E

Copper to Fitting

O.D. TUBE	ELBOWS	PART NO.
1/4"	Copper to Fitting	2478E
3/8"	Copper to Fitting	2479E
1/2"	Copper to Fitting	2480E
5/8"	Copper to Fitting	2481E
3/4"	Copper to Fitting	2482E
7/8"	Copper to Fitting	2483E
1 1/8"	Copper to Fitting	484E
1 3/8"	Copper to Fitting	2485E
1 5/8"	Copper to Fitting	2486E
2 1/8"	Copper to Fitting	2487E
2 5/8"	Copper to Fitting	2488E
3 1/8"	Copper to Fitting	2489E
3 5/8"	Copper to Fitting	2490E

Long Radius

Copper to Copper

O.D. TUBE	ELBOWS	PART NO.
3/8" x 1/4"	Copper to Copper	2327E
1/2" x 3/8"	Copper to Copper	2328E
5/8" x 1/2"	Copper to Copper	2329E
7/8" x 3/4"	Copper to Copper	2331E
7/8" x 5/8"	Copper to Copper	2332E
1 1/8" x 7/8"	Copper to Copper	2334E
1 1/8" x 5/8"	Copper to Copper	2335E
1 1/8" x 3/4"	Copper to Copper	2336E
1 3/8" x 1 1/8"	Copper to Copper	2337E
1 5/8" x 1 3/8"	Copper to Copper	2338E
2 1/8" x 1 5/8"	Copper to Copper	2339E
2 1/8" x 1 3/8"	Copper to Copper	2340E

Tees - Equal

Copper to Copper

O.D. TUBE	TEES (EQUAL)	PART NO.
3/16"	Copper to Copper	2499E
1/4"	Copper to Copper	2500E
5/16"	Copper to Copper	2501E
3/8"	Copper to Copper	2502E
1/2"	Copper to Copper	2503E
5/8"	Copper to Copper	2504E
3/4"	Copper to Copper	2505E
7/8"	Copper to Copper	2506E
1 1/8"	Copper to Copper	2507E
1 3/8"	Copper to Copper	2508E
1 5/8"	Copper to Copper	2509E
2 1/8"	Copper to Copper	2510E
2 5/8"	Copper to Copper	2511E
3 1/8"	Copper to Copper	2512E
3 5/8"	Copper to Copper	2513E
4 1/8"	Copper to Copper	2514E

Caps

O.D. TUBE		PART NO.
1/4"	Caps	2644E
3/8"	Caps	2645E
1/2"	Caps	2646E
5/8"	Caps	2647E
3/4"	Caps	2648E
7/8"	Caps	2649E
1 1/8"	Caps	2650E
1 3/8"	Caps	2651E
1 5/8"	Caps	2652E
2 1/8"	Caps	2653E
2 5/8"	Caps	2654E
3 1/8"	Caps	2655E
3 5/8"	Caps	2656E
4 1/8"	Caps	2657E

Caps - Single

O.D. TUBE	CAPS	PART NO.
1/4"	Single	1324
3/8"	Single	1325
1/2"	Single	1326
5/8"	Single	1327
3/4"	Single	1328
7/8"	Single	1329
1 1/8"	Single	1330
1 3/8"	Single	1331
1 5/8"	Single	1332
2 1/8"	Single	1333



Bushes - Flush

Fitting to Copper

O.D. TUBE	BUSHES	PART NO.
3/8" x 1/4"	Flush	2662E
1/2" x 3/8"	Flush	2663E
5/8" x 1/5"	Flush	2664E
3/4" x 5/8"	Flush	2665E
7/8" x 5/8"	Flush	2666E
1 1/8" x 7/8"	Flush	2667E
1 3/8" x 1 1/8"	Flush	2668E
1 5/8" x 1 3/8"	Flush	2669E
2 1/8" x 1 5/8"	Flush	2670E



Return Bends

Copper to Copper

O.D. TUBE		PART NO.
5/8"	Return Bends	2700E
3/4"	Return Bends	2701E
7/8"	Return Bends	2702E
1 1/8"	Return Bends	2703E
1 3/8"	Return Bends	2704E
1 5/8"	Return Bends	2705E
2 1/8"	Return Bends	2706E

P Traps

Copper to Copper

O.D. TUBE		PART NO.
5/8"	P Traps	2700E
3/4"	P Traps	2701E
7/8"	P Traps	2702E
1 1/8"	P Traps	2703E
1 3/8"	P Traps	2704E
1 5/8"	P Traps	2705E
2 1/8"	P Traps	2706E

Adaptors - Female

Copper to NPTI

O.D. TUBE	NPTI	ADAPTORS	PART NO.
3/8"	x 1/4"	Female	2151
1/2"	x 1/2"	Female	2152
1/2"	x 13/8"	Female	2153
5/8"	x 13/4"	Female	2154
5/8"	x 11/2"	Female	2155
5/8"	x 13/8"	Female	2156
5/8"	x 11/4"	Female	2157
3/4"	x 13/4"	Female	2158
3/4"	x 11/2"	Female	2159
7/8"	x 11"	Female	2160
7/8"	x 13/4"	Female	2161
7/8"	x 11/2"	Female	2162
1 1/8"	x 11 1/4"	Female	2163
1 1/8"	x 11"	Female	2164
1 1/8"	x 13/4"	Female	2165
1 3/8"	x 11 1/2"	Female	2166
1 3/8"	x 11 1/4"	Female	2167
1 5/8"	x 11 1/2"	Female	2168
2 1/8"	x 12"	Female	2169

Adaptors - Male

Copper to NPTI

O.D. TUBE	NPTI	ADAPTORS	PART NO.
1/4"	x 1/8"	Male	2193
3/8"	x 1/4"	Male	2194
3/8"	x 3/8"	Male	2195
1/2"	x 3/4"	Male	2196
1/2"	x 1/2"	Male	2197
1/2"	x 3/8"	Male	2198
5/8"	x 3/4"	Male	2199
5/8"	x 1/2"	Male	2200
5/8"	x 1"	Male	2201
3/4"	x 3/4"	Male	2202
3/4"	x 1/2"	Male	2203
7/8"	x 1"	Male	2204
7/8"	x 3/4"	Male	2205
7/8"	x 1/2"	Male	2206
1 1/8"	x 1 1/4"	Male	2208
1 1/8"	x 1"	Male	2209
1 1/8"	x 3/4"	Male	2210
1 3/8"	x 1 1/2"	Male	2211
1 3/8"	x 1 1/4"	Male	2212
1 3/8"	x 1"	Male	2213
1 5/8"	x 1 1/2"	Male	2214
1 5/8"	x 1 1/4"	Male	2215
1 5/8"	x 2"	Male	2219
2 1/8"	x 2"	Male	2216
2 5/8"	x 2 1/2"	Male	2217
5/8"	x 3/8"	Male	2218

Adaptors - Female

Fitting to NPTI

O.D. TUBE	NPTI	ADAPTORS	PART NO.
1/2"	x 3/8"	Female	2180
5/8"	x 1/2"	Female	2181
5/8"	x 3/8"	Female	2182
7/8"	x 3/4"	Female	2183
1 1/8"	x 1"	Female	2184

Adaptors - Male

Fitting to NPTI

O.D. TUBE	NPTI	ADAPTORS	PART NO.
1/2"	x 3/8"	Male	2230
5/8"	x 3/8"	Male	2231
5/8"	x 1/2"	Male	2232
7/8"	x 3/4"	Male	2234
1 1/8"	x 1"	Male	2235

Nuts

Short – Forged

O.D. TUBE	TYPE	NUTS	PART NO.
1/4"	NS4-4	Short Forged	1088
5/16"	NS4-5	Short Forged	1089
3/8"	NS4-6	Short Forged	1090
1/2"	NS4-8	Short Forged	1091
5/8"	NS4-10	Short Forged	1092
3/4"	NS4-12	Short Forged	1093
7/8"	NS4-14	Short Forged	1094

Nuts

Longed – Forged

O.D. TUBE	TYPE	NUTS	PART NO.
1/4"	N4-4	Long Forged	1070
3/8"	N4-6	Long Forged	1072
1/2"	N4-8	Long Forged	1073
5/8"	N4-10	Long Forged	1074

Nuts

Short Reducing – Forged

THREAD	O.D.TUBE	TYPE	NUTS	PART NO.
3/8" x	1/4"	NRS4-64	Short Reducing	1098
1/2" x	3/8"	NRS4-86	Short Reducing	1099
5/8" x	1/2"	NRS4-108	Short Reducing	1100
3/4" x	5/8"	NRS4-1210	Short Reducing	1101
7/8" x	3/4"	NRS4-1412	Short Reducing	1102

Nuts

Long Reducing - Forged

THREAD	O.D.TUBE	TYPE	NUTS	PART NO.
3/8" x	1/4"	NRS4-64	Long Reducing	1098
1/2" x	3/8"	NRS4-86	Long Reducing	1099
5/8" x	1/2"	NRS4-108	Long Reducing	1100
3/4" x	5/8"	NRS4-1210	Long Reducing	1101
7/8" x	3/4"	NRS4-1412	Long Reducing	1102

Gaskets

Copper Flare

O.D. TUBE	TYPE	GASKETS	PART NO.
1/4"	B2-4	Gaskets	1347
3/8"	B2-6	Gaskets	1348
1/2"	B2-8	Gaskets	1349
5/8"	B2-10	Gaskets	1350
3/4"	B2-12	Gaskets	1351
7/8"	B2-14	Gaskets	1352



Bonnets

Copper Flare

O.D. TUBE	TYPE	BONNETS	PART NO.
1/4"	B1-4	Bonnets	1356
5/16"	B1-5	Bonnets	1357
3/8"	B1-6	Bonnets	1358
1/2"	B1-8	Bonnets	1359
5/8"	B1-10	Bonnets	1360
3/4"	B1-12	Bonnets	1361
7/8"	B1-14	Bonnets	1362



Unions - Male

Flare to Flare

O.D.TUBE	TYPE	UNIONS (MALE)	PART NO.
1/4"	U2-4	Flare to Flare	1106
5/16"	U2-5	Flare to Flare	1107
3/8"	B2-6	Flare to Flare	1108
1/2"	B2-8	Flare to Flare	1109
5/8"	U2-10	Flare to Flare	1110
3/4"	U2-12	Flare to Flare	1111
7/8"	U2-14	Flare to Flare	1112

Unions - Female

Flare to Flare

O.D.TUBE	TYPE	UNIONS (FEMALE)	PART NO.
1/4"	U4-4	Flare to Flare	1272
3/8"	U4-6	Flare to Flare	1273
1/2"	U4-8	Flare to Flare	1274
5/8"	U4-10	Flare to Flare	1275
3/4"	U4-12	Flare to Flare	1276

Reducing

Male, Flare to Flare

O.D. TUBE			TYPE	REDUCING	PART NO.
1	X	2			
1/4"	x	3/16"	UR2-43	Male	1139
3/8"	x	1/4"	UR2-64	Male	1140
1/2"	x	1/4"	UR2-84	Male	1141
1/2"	x	3/8"	UR2-86	Male	1142
5/8"	x	1/4"	UR2-104	Male	1143
5/8"	x	3/8"	UR2-106	Male	1144
5/8"	x	1/2"	UR2-108	Male	1145
3/4"	x	3/8"	UR2-126	Male	1146
3/4"	x	1/2"	UR2-128	Male	1147
3/4"	x	5/8"	UR2-1210	Male	1148

Reducing

Female Flare to Male Flare

O.D. TUBE		TYPE	REDUCING	PART NO.
F	M			
1/4"	3/8"	UR3-46	Female to Male	1161
1/4"	1/2"	UR3-48	Female to Male	1162
5/16"	1/4"	UR3-54	Female to Male	1163
3/8"	1/4"	UR3-64	Female to Male	1164
3/8"	1/2"	UR3-68	Female to Male	1165
3/8"	5/8"	UR3-610	Female to Male	1166
1/2"	1/4"	UR3-84	Female to Male	1167
1/2"	3/8"	UR3-86	Female to Male	1168
1/2"	5/8"	UR3-810	Female to Male	1169
5/8"	1/4"	UR3-104	Female to Male	1170
5/8"	3/8"	UR3-106	Female to Male	1171
5/8"	1/2"	UR3-108	Female to Male	1172
5/8"	3/4"	UR3-1012	Female to Male	1173
3/4"	1/2"	UR3-128	Female to Male	1174
3/4"	5/8"	UR3-1010	Female to Male	1175

Male Flare

NPTI

O.D. TUBE	NPTI	TYPE		PART NO.
1/4"	1/8"	U3-4A	Male Flare	1900
1/4"	1/4"	U3-4B	Male Flare	1901
1/4"	3/8"	U3-4C	Male Flare	1902
1/4"	1/2"	U3-4D	Male Flare	1903
5/16"	1/8"	U3-5A	Male Flare	1904
5/16"	1/4"	U3-5B	Male Flare	1905
3/8"	1/4"	U3-6B	Male Flare	1907
3/8"	3/8"	U3-6C	Male Flare	1908
3/8"	1/2"	U3-6D	Male Flare	1909
1/2"	3/8"	U3-8C	Male Flare	1912
1/2"	1/2"	U3-8D	Male Flare	1913
5/8"	3/8"	U3-10C	Male Flare	1915
5/8"	1/2"	U3-10D	Male Flare	1916

Male Flare

NPTE

O.D. TUBE	NPTE	TYPE		PART NO.
1/4"	1/8"	U1-4A	Male Flare	1117
1/4"	1/4"	U1-4B	Male Flare	1118
1/4"	3/8"	U1-4C	Male Flare	1119
1/4"	1/2"	U1-4D	Male Flare	1120
5/16"	1/4"	U1-5B	Male Flare	1121
3/8"	1/4"	U1-6B	Male Flare	1122
3/8"	3/8"	U1-6C	Male Flare	1123
3/8"	1/2"	U1-6D	Male Flare	1124
1/2"	1/4"	U1-8B	Male Flare	1125
1/2"	3/8"	U1-8C	Male Flare	1126
1/2"	1/2"	U1-8D	Male Flare	1127
1/2"	3/4"	U1-8E	Male Flare	1128
5/8"	3/8"	U1-10C	Male Flare	1129
5/8"	1/2"	U1-10D	Male Flare	1130
5/8"	3/4"	U1-10E	Male Flare	1131
3/4"	1/2"	U1-12D	Male Flare	1132
3/4"	3/4"	U1-12E	Male Flare	1133
3/8"	1/8"	U1-6A	Male Flare	1135



Male Flare

Female Solder

O.D. TUBE	SOLDER	TYPE	MALE FLARE	PART NO.
1/4"	1/4"	US2-44	Female Solder	1925
3/8"	1/4"	US2-64	Female Solder	1927
3/8"	3/8"	US2-66	Female Solder	1928
1/2"	1/2"	US2-88	Female Solder	1931
5/8"	1/2"	US2-108	Female Solder	1932
5/8"	5/8"	US2-1010	Female Solder	1933
3/4"	3/4"	US2-1212	Female Solder	1934
7/8"	7/8"	US2-1414	Female Solder	1935





Section E

Heat exchangers, vibration eliminators,
accumulators and pressure relief valves

Heat Exchangers

We can supply a range of heat exchangers that are designed to increase liquid sub-cooling and ultimately, system capacity. Our range of Suction Line Heat Exchangers also provide additional compressor protection, by vapourising left-over liquid.

- SLHE 1/2 - 20: All copper construction (brazed connections)
- SHLE 25 – 150: All steel construction (connections suitable for butt weld or brazing)

PART NO.	LIQUID CONNECTION	SUCTION CONNECTION	OVERALL LENGTH MM
SLHE 1/2	1/4"	1/2"	293
SLHE 3/4	3/8"	5/8"	299
SLHE 1	3/8"	5/8"	350
SLHE 1 1/2	3/8"	7/8"	369
SLHE 2	3/8"	1 1/8"	381
SLHE 3	1/2"	1 1/8"	381
SLHE 5	5/8"	1 3/8"	362
SLHE 7 1/2	5/8"	1 5/8"	432
SLHE 10	7/8"	2 1/8"	458
SLHE 15	7/8"	2 1/8"	635
SLHE 20	1 1/8"	2 1/8"	686
SLHE 25	1 1/8"	2 5/8"	712
SLHE 30/35	1 3/8"	2 5/8"	762
SLHE 40	1 3/8"	3 1/8"	813
SLHE 50	1 5/8"	3 1/8"	762
SLHE 60	1 5/8"	4 1/8"	635
SLHE 75	2 1/8"	4 1/8"	686
SLHE 80	2 1/8"	4 1/8"	737
SLHE 100/125	2 1/8"	5 1/8"	597
SLHE 150	2 1/8"	5 1/8"	623

AC & R Vertical Suction Accumulators

We offer a range of accumulators that hold excess liquid and return it to a compressor as a vapour, in order for the compressor to continue working effectively.

Henry Accumulators

PART NO.	CONNECTIONS	SIZE MM
S-7044	1/2	264 H x 102 Ø
S-7045	5/8	264 H x 102 Ø
S-7046	3/4	264 H x 102 Ø
S-7057CE	7/8	330 H x 127 Ø
S-7061CE	1-1/8	381 H x 152 Ø
S-7063CE	1-3/8	630 H x 152 Ø
S7065CE	1-5/8	630 H x 152 Ø
S-7721CE	2-1/8	588 H x 219 Ø
S7725CE	-5/8	578 H x 273 Ø

Helical Oil Separators

We supply a variety of air conditioning and refrigeration oil separators.

Oil separators should be selected based on capacity and not connection size. For further advice, please contact us.

PART NO.	CONNECTIONS
S-5180	1/4
S-5181	3/8
S-5182	1/2
S-5815	5/8
S-5187	7/8
S-5188	1-1/8
S-5190	1-3/8
S-5192	1-5/8

Oil Separator Heater

PART NO.	CONNECTIONS
S-9111	220 Volt 44" Dia.

Danfoss Oil Separators

PART NO.	MODEL	DESCRIPTION
040B001000	OUB1	Without connections
084B004000	OUB4	Without connections

Connections for OUB1

Two of the below connections required per OUB

PART NO.	CONNECTION IN
040B013200	3/8 flare straightway
040B013400	1/2 flare straightway
040B013600	5/8 flare straightway
040B014000	3/8 solder straightway
040B014200	1/2 solder straightway
040B014400	5/8 solder straightway

Connections for OUB4

Two of the below connections required per OUB4

PART NO.	CONNECTION IN
040B025600	5/8 flare straightway
040B025800	3/4 flare straightway
040B026000	1 flare straightway
040B026600	5/8 solder straightway
040B026800	3/4 solder straightway
040B027000	7/8 solder straightway
040B027200	1 solder straightway
040B027400	1 1/8 solder straightway



Pressure Relief Valves

We stock a variety of pressure relief valves, including the popular range from Henry Technologies.

PART NO.		INLET	OUTLET
5230A-CE	Pressure Relief Valves	1/4" MPT	1/2" Flare
5231A-CE	Pressure Relief Valves	3/8" MPT	1/2" Flare
5232A-CE	Pressure Relief Valves	1/2" MPT	3/4" Flare
5231B-CE	Pressure Relief Valves	1/2" MPT	5/8" Flare

When placing an order, please specify pressure settings. Standard settings are below:

14.0 Bar	206 psi
16.2 Bar	238 psi
24.8 Bar	365 psi
20.7 Bar	300 psi
24.1 Bar	350 psi
27.6 Bar	400 psi
31.0 Bar	450 psi



Vibration Eliminators

We can supply Vibration Eliminators that are designed to reduce compressor vibration and can be fitted in both the suction and discharge lines.

PART NO.	ACTUAL O.D.	NOMINAL O.D.	WEIGHT LB	FLEX TUBING ID	FLEX TUBE LENGTH	FULL LENGTH	MAX WORKING PRESSURE	BURST PRESSURE
174400	1/4"	1/8"	1/4	1/4	6 1/2	7 1/2	500	2500
174401	3/8"	1/4"	3/8	3/8	7	8 1/4	500	2500
174402	1/2"	3/8"	3/8	3/8	7 1/2	9	500	2500
174403	5/8"	1/2"	5/8	1/2	8	9 3/4	500	2500
174404	3/4"	5/8"	5/8	1/2	8	10	500	2500
174405	3/4"	5/8"	1 1/4	3/4	9	11 1/4	500	2500
174406	7/8"	3/4"	1 1/4	3/4	9	11 1/2	500	2500
174407	1 1/8"	1"	1 3/4	1	10	13	500	2500
174408	1 3/8"	1 1/4"	2 1/2	1 1/4	11 1/2	14 3/4	500	2500
174409	1 5/8"	1 1/2"	3 3/4	1 1/2	13	17	500	2500
174410	2 1/8"	2"	5	2	14	20	390	1950
174411	2 5/8"	2 1/2"	8	2 1/2	18	24	340	1700
174412	3 1/8"	3"	11	3	20	27	300	1500
174413	3 5/8"	3 1/2"	14	3 1/2	24	32 5/8	175	525
174414	4 1/8"	4"	16	4	24	33 3/8	175	525



Section F

Thermostats, gauges,
pressure switches and controls



Pressure Controls

We can supply a range of pressure controls suitable for many different requirements.

Danfoss KP without Flare Nuts

RANGE	PART NO.	TYPE	CONNECTION	RANGE (BAR)	DIFFERENTIAL (BAR)	
Low	060-110166	KP1	1/4" flare	0.2-2+7.5	0.7-4	
	050-110366	KP1	1/4" flare	-0.9-+7	0.7 fixed	
	060-111166	KP1	1/4" solder ODF	-0.9-+7	0.7 fixed	
	060-111266	KP1	1/4" solder ODF	-0.2-+7.5	0.7-4	
	060-114166	KP1	1/4" flare	-0.2-+7.5	0.7-4	
	060-200166	KP1	1/4" flare	0.4-+7.6	0.7-4	
	060-112066	KP2	1/4" flare	-0.2-+5	0.4-1.5	
	060-112466	KP2	1/4" solder ODF	-0.2-+5	0.4-5	
	High	060-114266	KP5	1/4" flare	8-28	1.8-6
		060-117166	KP5	1/4" flare	8-28	1.8-6
060-117366		KP5	1/4" flare	8-28	3 fixed	
060-117966		KP5	1/4" solder ODF	8-28	1.8-6	
060-118066		KP5	1/4" solder ODF	8-28	3 fixed	
060-201566		KP5	1/4" flare	6-21	3 fixed	
Dual		060-124166	KP15	1/4" flare	L.P.-0.2-+7.5	H.P.8-28
	060-124366	KP15	1/4" flare	L.P.-0.2-+7.5	H.P.8-28	
	060-124566	KP15	1/4" flare	L.P.-0.9-+7	H.P.8-28	
	060-126466	KP15	1/4" flare	L.P.-0.2-+7.5	H.P.8-28	
	060-126566	KP15	1/4" flare	L.P.-0.2-+7.5	H.P.8-28	
	060-126166	KP15	1/4" flare	L.P.-0.9-+7	H.P.8-28	
	060-126366	KP15	1/4" solder ODF	L.P.-0.9-+7	H.P.8-28	
	060-125466	KP15	1/4" solder ODF	L.P.-0.2-+7.5	H.P.8-28	
	060-125566	KP15	1/4" solder ODF	L.P.-0.2-+7.5	H.P.8-28	
	060-128466	KP15	1/4" solder ODF	L.P.-0.2-+7.5	H.P.8-28	
	060-129966	KP15	1/4" solder ODF	L.P.-0.2-+7.5	H.P.8-28	
	060-114866	KP15	1/4/6mm flare	L.P.-0.2-+7.5	H.P.8-28	

Danfoss KP and MP Accessories

PART NO.	TYPE	DESCRIPTION
060-105566	KP	Wall Bracket
060-105666	KP	Angle Bracket
060-007066	KP-RT	0.5m cap. tube with 1/4" flare, 50 mm flare collar
060-007166	KP-RT	1.0 m cap. tube with 1/4" flare, 50 mm flare collar
060-007200	KP-RT	1.5 m cap. tube with 1/4" flare, 50 mm flare collar
060-007866	KPA	1.0 m cap. tube with 1/4" flare
060-007566	KP-RT	0.75 m cap. tube with 1/4" flare, 21 mm flare collar
060-019066	KP-RT	0.5m cap. tube with 1/4", 21 mm flare collar
060-019166	KP-RT	1.0 m cap. tube with 1/4", 21 mm flare collar
060-019266	KP-RT	1.5 m cap. tube with 1/4" flare, 21 mm flare collar
060-019366	KP-RT	2.0 m cap. tube with 1/4" flare, 21 mm flare collar
060-003166	KP	Protective cap for single KP
060-003266	KP	Protective cap for double KP
060-000466	KP-RT	0.5m cap. tube with Schraeder valve depressor with 1/4" flare
060-000566	KP-RT	1.0 m cap. tube with Schraeder valve depressor with 1/4" flare
060-000666	KP-RT	1.5 m cap. tube with Schraeder valve depressor with 1/4" flare

Danfoss Oil Differential Pressure Controls

PART NO.	CONNECTION	TIME RELAY	RANGE (BAR)	DIFF (BAR)
060B016666	1/4"/6 mm flare	45 sec	-1 to +12	0.65 fixed
060B016766	1/4"/6 mm flare	60 sec	-1 to +12	0.9 fixed
060B016866	1/4"/6 mm flare	90 sec	-1 to +12	0.65 fixed
060B016966	1/4"/6 mm flare	120 sec	-1 to +12	0.65 fixed
060B017066	1/4"/6 mm flare	45 sec	-1 to +12	0.3-4.5
060B017166	1/4"/6 mm flare	60 sec	-1 to +12	0.3-4.5
060B017866	1/4"/6 mm flare	60 sec/light	-1 to +12	0.3-4.5
060B017266	1/4"/6 mm flare	90 sec	-1 to +12	0.3-4.5
060B017366	1/4"/6 mm flare	120 sec	-1 to +12	0.3-4.5
060B029966	1/4"/6 mm flare	No time relay	-1 to +12	0.3-4.5

Thermostats

Danfoss KP – Vapour charge

PART NO.	TYPE	RANGE	DIFFERENTIAL	CAP. TUBE
060L110066	KP61	-30 to -15°C	4 – 15/1.5 – 7°C	2m
060L110166	KP61	-30 to -15°C	4 – 15/1.5 – 7°C	5m
060L110266	KP61	-30 to -15°C	3.5 – 14/1.2 – 6°C	2m
060L110366	KP61	-30 to -15°C	4 – 15/1.5 – 7°C	2m
060L110466	KP61	-30 to -15°C	3°C fixed	5m
060L110566	KP61	-30 to -15°C	3°C fixed	2m
060L11286	KP61	-30 to -15°C	4 – 15/1.5 – 7°C	2m
060L110666	KP62	-30 to -15°C	4 – 15/1.5 – 7°C	Room sensor
060L110766	KP63	-50 to 10°C	5-15/2 – 9°C	2m
060L110866	KP63	-50 to -10°C	5 – 15/2 – 9°C	2m
060L111166	KP68	-5 to +35°C	4 – 15/2 – 8°C	Room sensor
060L111266	KP69	-5 to +35°C	4 – 15/2 – 8°C	2m

Danfoss Adsorption Charge

PART NO.	TYPE	RANGE	DIFFERENTIAL	CAP. TUBE
060L111066	KP62	-30 to +15°C	4 – 12/2 – 7°C	Room sensor
060L111366	KP71	-5 to +20°C	2 – 20°C	2m
060L111566	KP71	-5 to +20°C	3°C fixed	2m
060L114366	KP73	-25 to +15°C	2.5 – 20°C	2m
060L111766	KP73	-25 to +15°C	15 – 35°C	2m
060L111866	KP73	-25 to +15°C	2.5 – 8°C	2m
060L113866	KP73	-25 to +15°C	3.5°C fixed	2m
060L114066	KP73	-25 to +15°C	2-8°C	3m
060L117966	KP73	-25 to +15°C	3.5 – 20°C	2m
060L113066	KP73	-25 to +15°C	2.5 – 10°C	5m
060L112066	KP75	0 to + 35°C	2.5 – 10°C	2m
060L112166	KP77	+20 to 60°C	3.5 – 10°C	2m
060L112266	KP77	+20 to 60°C	3.5 – 10°C	3m
060L116866	KP77	+20 to 60°C	3.5 – 10°C	5m
060L112666	KP79	+50 to +100°C	5 – 15°C	2m
060L112566	KP81	+80 to 150°C	7 – 20°C	2m
060L115566	KP81	+80 to 150°C	8°C fixed	2m

Dual Thermostats

PART NO.	TYPE	RANGE	CAP. TUBE
060L113166	KP98	Oil: +60 - +120°C, HT: +100 - +180°C	1m

RT – Discharge Line Thermostats

PART NO.	TYPE	RANGE	DIFFERENTIAL	DIFF.SENSOR
017-500366	RT 101	+25 to +90°C	2-10 / 3-20°C	2m cap. tube
017-500666	RT 101	+25 to +90°C	2-10 / 3-20°C	3m cap. tube
017-502266	RT 101	+25 to +90°C	2-10 / 3-20°C	5m cap. tube
017-502466	RT 101	+25 to +90°C	2-10 / 3-20°C	8m cap. tube
017-500466	RT 101	+25 to +90°C	2-10 / 3-20°C	2m cap. tube
017-514766	RT 102	+25 to +90°C	2-10 / 3-20°C	2m cap. tube
017-504966	RT 106	+20 to +90°C	4-20 / 2-7°C	2m cap. tube
017-505066	RT 106	+20 to +90°C	4-20 / 2-7°C	5m cap. tube
017-513566	RT 107	+70 to +150°C	6-25 / 1.8-8°C	2m cap. tube
017-514066	RT 107	+70 to +150°C	6-25 / 1.8-8°C	5m cap. tube
017-514466	RT 107	+70 to +150°C	6-25 / 1.8-8°C	8m cap. tube
017-513966	RT 107	+70 to +150°C	6-25 / 1.8-8°C	3m cap. tube
017-513666	RT 107	+70 to +150°C	6-25 / 1.8-8°C	2m cap. tube
017-514166	RT 107	+70 to +150°C	6-25 / 1.8-8°C	5m cap. tube
017-520600	RT 120	+120 to 215°C	7-30 / 1.8-8°C	5m cap. tube
017-520800	RT 120	+120 to 215°C	7-30 / 1.8-8°C	5m cap. tube
017-521200	RT 120	+120 to 215°C	7-30 / 1.8-9°C	2m cap. tube
017-521466	RT 120	+120 to 215°C	7-30 / 1.8-9°C	2m cap. tube
017-522266	RT 123	+150 to +250°C	6.5-30 / 1.9-9°C	5m cap. tube
017-522766	RT 124	+200°C to 300°C	5-25 / 2.5-10°C	2m cap. tube
017-523166	RT 124	+200°C to 300°C	5-25 / 2.5-10°C	2m cap. tube

Air Duct Thermostat

PART NO.	TYPE	RANGE	DIFFERENTIAL	DIFF.SENSOR
017-523666	RT 140	+15 to +45°C	1.8-8 / 2.5-11°C	2 m cap. tube

Differential Thermostat

PART NO.	TYPE	RANGE	DIFFERENTIAL	DIFF.SENSOR
017D003166	RT 270	0-15°C	Fixed 2°C	2m x 5m cap. tubes

Accessories

PART NO.	TYPE	RANGE
017-437066	RT-KP	Phial pockets for RT series, brass 112mm long
060L333066	KPS	Phial pockets for RT series, brass 110mm long
017-421666	RT	Phial pockets for RT series, brass 468mm long
017-403066	RT	RT contact system, SPDT changeover switch
041E011000	KP	Heat conducting compound 8G

KPS – Vapour Charge

PART NO.	TYPE	RANGE	DIFFERENTIAL	DIFF.SENSOR
060L310066	KPS 77	+20 to +60°C	3-14°C	Short rigid
060L310166	KPS 77	+20 to +60°C	3-14°C	2m plain
060L310266	KPS 77	+20 to +60°C	3-14°C	2m plain
060L311866	KPS 77	+20 to +60°C	3-14°C	Short rigid
060L312066	KPS 77	+20 to +60°C	3-14°C	5m plain
060L310366	KPS 79	+50 to +100°C	4-16°C	Short rigid
060L310466	KPS 79	+50 to +100°C	4-16°C	2m armoured
060L310566	KPS 79	+50 to +100°C	4-16°C	2m plain
060L312166	KPS 79	+50 to +100°C	4-16°C	Short rigid
060L312266	KPS 79	+50 to +100°C	4-16°C	5m armoured
060L312300	KPS 79	+50 to +100°C	4-16°C	5m plain
060L312400	KPS 79	+50 to +100°C	4-16°C	8m armoured
060L313766	KPS 79	+50 to +100°C	4-16°C	Short rigid
060L312666	KPS 80	+70 to +120°C	4.5-18°C	Short rigid
060L312866	KPS 80	+70 to +120°C	4.5-18°C	2m armoured
060L313066	KPS 80	+70 to +120°C	4.5-18°C	5m armoured
060L313100	KPS 80	+70 to +120°C	4.5-18°C	5m plain

Sensor Pockets

PART NO.	DESCRIPTION
060L332666	75mm brass 1/2" BSP
060L332766	160mm brass 1/2" BSP
060L333066	110mm brass 1/2" BSP
060L332866	75mm stainless steel 1/2" BSP
060L332966	160mm stainless steel 1/2" BSP
060L333166	10mm stainless steel 1/2" BSP
060L326500	1/2" NPT

Universal Thermostats

PART NO.	TYPE	DESCRIPTION
060H110100	UT72	General purpose thermostat
060H110200	UT73	General purpose thermostat

Danfoss RT Thermostats with Capillary

PART NO.	TYPE	RANGE	DIFFERENTIAL	DIFF.SENSOR
017-500866	RT 2	-25 to +15°C	2m cap. tube	5-18/6-20°C
017-501466	RT 3	-25 to +15°C	2m cap. tube	1.5-7.5 – 0.8-3°C
017-501566	RT 3	-25 to +15°C	3m cap. tube	1.5-7.5 – 0.8-3°C
017-501666	RT 3	-25 to +15°C	5m cap. tube	1.5-7.5 – 0.8-3°C
017-501766	RT 3	-25 to +15°C	8m cap. tube	1.5-7.5 – 0.8-3°C
017-501866	RT 3	-25 to +15°C	10m cap. tube	1.5-7.5 – 0.8-3°C
017-502866	RT 3	-25 to +15°C	2m cap. tube	1.5-7.5 – 0.8-3°C
017-505366	RT 7	-25 to +15°C	2m cap. tube	2-7/2-9.5°C
017-505466	RT 7	-25 to +15°C	3m cap. tube	2-7/2-9.5°C
017-505566	RT 7	-25 to +15°C	5m cap. tube	2-7/2-9.5°C
017-505666	RT 7	-25 to +15°C	8m cap. tube	2-7/2-9.5°C
017-506666	RT 9	-45 to -15°C	2m cap. tube	2-10/1-13°C
017-506866	RT 9	-45 to -15°C	5m cap. tube	2-10/1-13°C
017-507766	RT 10	-60 to -30°C	2m cap. tube	1.5-11/1-4°C
017-507966	RT 10	-60 to -30°C	5m cap. tube	1.5-11/1-4°C
017-509266	RT 12	-5 to +10°C	8m cap. tube	1-3°C
017-509766	RT 13	-30 to 0°C	2m cap. tube	1-6/0.8-2°C
017-509966	RT 14	-5 to +30°C	2m cap. tube	1.5-7/1.5-8°C
017-510066	RT 14	-5 to +30°C	3m cap. tube	1.5-7/1.5-8°C
017-510166	RT 14	-5 to +30°C	5m cap. tube	1.5-7/1.5-8°C
017-510266	RT 14	-5 to +30°C	8m cap. tube	1.5-7/1.5-8°C
017-510366	RT 14	-5 to +30°C	10m cap. tube	1.5-7/1.5-8°C
017-511566	RT 15	+8 to +32°C	2m cap. tube	1.5-7/1.5-8°C
017-527866	RT 23	+5 to +22°C	2m cap. tube	1-3.5/1-3°C
017-528566	RT 24	+15 to +34°C	2m cap. tube	1-4/1-3.5°C
017-518066	RT 26	-5 to +50°C	2m cap. tube	2-9/3-19°C

Room Thermostats

PART NO.	TYPE	RANGE	DIFFERENTIAL	DIFF.SENSOR
017-503666	RT 4	-5 to +30°C	1-7 / 0.6-3°C	Room Sensor
017-503766	RT 4	-5 to +30°C	1-7 / 0.6-3°C	Room Sensor
017-508366	RT 11	-30 to 0°C	1-6 / 0.8-2.5°C	Room Sensor
017-511766	RT 17	-45 to -15°C	1-5 / 0.8-2°C	Room Sensor
017-511866	RT 34	-25 to +15°C	1.4-8.5 / 1.4-10°C	Room Sensor
017-515566	RT 103	+10 to +45°C	1.5-5 / 1-3°C	Room Sensor



Thermometers

Pocket Thermometers

PART NO	DESCRIPTION	MAKE
6764	PT4 – Mercury, -30°C - 50°C	Brannon
6771	R4 – PT4 Refill, -30°C - 50°C	Brannon
6765	TD2 0 Dial	
6403	IRO/LS3 – Infrared w. LED flashlight	

Digital Thermometers

PART NO	DESCRIPTION	MAKE
6543	DDT2 – Dual probe & case, -40°C - 649°C	Supco
6835	SP120 - 3m probe solar/battery	ITE
6688	DT1620 - -50°C - 150°C	ITE
600697	TPI373 – Infrared thermometer 14°C - 950°C	TPI
600692	TPI342 – Differential thermometer	TPI
600696	TPI376 – Infrared thermometer contact and non-contact	TPI

Hand Held Thermometers

PART NO	DESCRIPTION	MAKE
6520	2000K - -30°C - 50°C	TME
6521	2010K - -200°C - 1372°C	TME
6522	2020K – Diff thermocouple thermometer	TME

Sensors/Probes for Handheld

PART NO	DESCRIPTION	MAKE
6523	KM01 Probe – Mineral insulated	TME
6524	KP05 Probe – Std needle	TME
6525	KPS10 Probe – Pipe clamp	TME
6526	KA03 Probe – Air moving	TME
6527	KB01 Probe – Binder	TME
6528	KS01 Probe – Surface	TME
6529	KA01 – Thermocouple sensor	TME

Temperature Kits

PART NO	DESCRIPTION	MAKE
6532	GP1 – General purpose kit no. 1*	TME
6531	GP2 – General purpose kit no. 2**	TME
6530	HVC01 – Carry case kit 2	TME
6533	HVK1 – Heating & vent kit ***	TME

*includes universal, funnel air, needle, ribbon surface, mineral insulated probes, thermometer and case

**includes funnel air, needle, ribbon surface, mineral insulated probes, 2000K thermometer and case

***includes differential thermometer, universal, funnel air, needle, binder probes, 2x K pipe clamps, 1.5m cable and case

4" Dial Thermometer

PART NO	DESCRIPTION	CAPILLARY LENGTH
6823	1FC01100KW – -40°C - 40°C	1.5m
6824	DT45 – -40°C - 40°C	4.5m
6825	DT75 – -40°C - 40°C	7.5m
6818	V9/169 – Phial Guard & Grommet	

Cabinet/Coldroom

PART NO	DESCRIPTION	RANGE
6776	79/108 – Fridge/Freezer	-40°C - 40°C
6777	22/365/3 – Coldroom	-30°C - 45°C
6821	79/109/0 – Self-adhesive dial	-10°C - 50°C

Saginomiya Single Function Pressure Controls

Type SNS & HNS

- For use with fluorinated refrigerants as well as with air and water (allowable fluid temp: -20 to 120°C)
- Type SNS for universal application
- Type HNS for high pressure safety cut out
- Available drip proof enclosure for marine application or explosion proof enclosure for special application
- Mounting bracket is supplied as standard
- With SPDT contact mechanism
- IP44 with upper lid (optional)
- Stainless steel models are available upon request.

Type SNS-Automatic Reset Type Unit: MPa (kgf/cm²)

PART NO	RANGE		DIFFERENTIAL		FACTORY SETTING		MAX WORKING PRESSURE	WEIGHT (KG)
	MIN	MAX	MIN	MAX	OFF (ON)	ON (OFF)		
SNS-C101X	-0.06 (-50cmHg)	0.1 (1)	0.015 (0.15)	0.05 (0.5)	0.025 (0.25)	0.05 (0.5)	0.3 (3)	0.33
SNS-C102X	-0.02 (-20cmHg)	0.2 (2)	0.025 (0.25)	0.15 (1.5)	0.025 (0.25)	-	0.5 (5)	0.33
SNS-C103X	-0.06 (-50cmHg)	0.3 (3)	0.035 (0.35)	0.2 (2)	0.05 (0.5)	0.15 (1.5)	1 (10)	0.33
SNS-C104X	-0.06 (-50cmHg)	0.4 (4)	0.04 (0.4)	0.2 (2)	0.1 (1)	0.2 (2)	1.5 (15)	0.33
SNS-C106X	-0.06 (-50cmHg)	0.6 (6)	0.06 (0.6)	0.4 (4)	0.2 (2)	0.3 (3)	1.5 (15)	0.33
SNS-C110X	0.1 (1)	1 (10)	0.1 (1)	0.3 (3)	0.4 (4)	0.6 (6)	1.5 (15)	0.33
SNS-C120X	0.5 (5)	2 (20)	0.2 (2)	0.5 (5)	1.2 (12)	1.5 (15)	3 (30)	0.33
SNS-C130X	0.5 (5)	3 (30)	0.3 (3)	1 (10)	2 (20)	2.5 (25)	3.3 (33)	0.33
SNS-C135X	1 (10)	3.5 (35)	0.5 (5)	1.5 (15)	2.5 (25)	3 (30)	3.8 (38)	0.33

Type SNS-Manual Reset Type Unit: MPa (kgf/cm²)

PART NO	RANGE		MANUAL RESET	*FACTORY SETTING		MAX WORKING PRESSURE	WEIGHT (KG)
	MIN	MAX		OFF (ON)	ON		
SNS-C102XM2	-0.2 (-20cmHg)	0.2 (2)	Automatic operation on pressure decrease, and manual reset	0.025 (0.25)	Manual Reset	0.5 (5)	0.33
SNS-C106XM2	-0.06 (-50cmHg)	0.6 (6)	Automatic operation on pressure decrease, and manual reset	0.2 (2)	Manual Reset	1.5 (15)	0.33
SNS-X130XM2	0.5 (5)	3 (30)	Automatic operation on pressure decrease, and manual reset	2 (20)	Manual Reset	3.3 (33)	0.33

*Based on the 1-3 terminal connection

Type HNS-Automatic Reset Type Unit: MPa (kgf/cm²)

PART NO	RANGE		DIFFERENTIAL	*FACTORY SETTING		MAX WORKING PRESSURE	WEIGHT (KG)
	MIN	MAX		OFF (ON)	ON		
HNS-C130X	0.8 (8)	3 (30)	0.3 to 0.5 fixed (3 to 5 fixed)	2 (20)	1.6 (16)	3.3 (33)	0.24

*Based on the 1-3 terminal connection

Type HNS-Manual Reset Type Unit: MPa (kgf/cm²)

PART NO	RANGE		MANUAL RESET	*FACTORY SETTING		MAX WORKING PRESSURE	CONTACT FUNCTION PRESSURE	WEIGHT (KG)
	MIN	MAX		OFF (ON)	ON			
HNS-C130XM1	0.8 (8)	3 (30)	Automatic operation on pressure increase, and manual reset	2 (20)	manual Reset	3.3 (33)	Diagram 4	0.24

*Based on the 1-3 terminal connection

Saginomiya Dual Pressure Controls

Type DNS

- For use with fluorinated refrigerants as well as with air and water (Allowable Fluid Temp: -20 to 120°C)
- Various contact functions are available
- Available drip proof enclosure for marine application or explosion proof enclosure for special application
- Mounting bracket is supplied as standard
- IP44 with upper lid (optional)
- Stainless steel models are available upon request

TYPE NUMBER SELECTION (SPECIFICATIONS)

Automatic Reset Type Unit: MPa (kgf/cm²)

PART NO	PRESSURE SLIDE	RANGE		DIFFERENTIAL		FACTORY SETTING		MAX WORKING PRESSURE	WEIGHT (KG)
		MIN	MAX	MIN	MAX	OFF (ON)	ON (OFF)		
DNS-D304X	LOW SIDE	- 0.06 (-50cmHg)	0.4 (4)	0.04 (0.4)	0.2 (2)	0.1 (1)	0.2 (2)	1.5 (15)	0.49
	HIGH SIDE	0.8 (8)	3 (30)	Approx. 0.4 fixed (Approx. 4 fixed)		2 (20)	1.6 (16)	3.3 (33)	0.49
DNS-D306X	LOW SIDE	- 0.06 (50cmHg)	0.6 (6)	0.06 (0.6)	0.4 (4)	0.2 (2)	0.3 (3)	1.5 (15)	0.49
	HIGH SIDE	0.8 (8)	3 (30)	Approx. 0.4 fixed (Approx. 4 fixed)		2 (20)	1.6 (16)	3.3 (33)	0.49
DNS-D604X	LOW SIDE	- 0.06 (-50cmHg)	0.4 (4)	0.04 (0.4)	0.2 (2)	0.1 (1)	0.2 (2)	1.5 (15)	0.49
	HIGH SIDE	0.8 (8)	3 (30)	Approx. 0.4 fixed (Approx. 4 fixed)		2 (20)	1.6 (16)	3.3 (33)	0.49
DNS-D606X	LOW SIDE	- 0.06 (-50cmHg)	0.6 (6)	0.06 (0.6)	0.4 (4)	0.2 (2)	0.3 (3)	1.5 (15)	0.49
	HIGH SIDE	0.8 (8)	3 (30)	Approx. 0.4 fixed (Approx. 4 fixed)		2 (20)	1.6 (16)	3.3 (33)	0.49

Manual Reset Type Unit: MPa (kgf/cm²)

PART NO	PRESSURE SLIDE	RANGE		DIFFERENTIAL		FACTORY SETTING		MAX WORKING PRESSURE	WEIGHT (KG)
		MIN	MAX	MIN	MAX	OFF (ON)	ON (OFF)		
DNS-D304XM	LOW SIDE	- 0.06 (-50cmHg)	0.4 (4)	0.04 (0.4)}	0.2 (2)	0.1 (1)	0.2 (2)	1.5 (15)	0.49
	HIGH SIDE	0.8 (8)	3 (30)	Automatic operation on pressure rise, and manual reset		2 (20)}	Manual reset	3.3 (33)	0.49
DNS-D306XM	LOW SIDE	- 0.06 (-50cmHg)	0.6 (6)	0.06 (0.6)}	0.04 (0.4)	0.2 (2)	0.3 (3)	1.5 (15)	0.49
	HIGH SIDE	0.8 (8)	3 (30)	Automatic operation on pressure rise, and manual reset		2 (20)	Manual reset	3.3 (33)}	0.49
DNS-D604XM	LOW SIDE	- 0.06 (-50cmHg)	0.4 (4)	0.04 (0.4)}	0.2 (2)	0.1 (1)	0.2 (2)	1.5 (15)	0.49
	HIGH SIDE	0.8 (8)	3 (30)	Automatic operation on pressure rise, and manual reset		2 (20)	manual reset	3.3 (33)	0.49
DNS-D606XM	LOW SIDE	- 0.06 (-50cmHg)	0.6 (6)	0.06 (0.6)}	0.4 (4)	0.2 (2)	0.3 (3)	1.5 (15)	0.49
	HIGH SIDE	0.8 (8)	3 (30)	Automatic operation on pressure rise, and manual reset		2 (20)	manual reset	3.3 (33)	0.49
DNS-D606XMM	LOW SIDE	- 0.06 (50cmHg)	0.6 (6)	Automatic operation on pressure decrease, and manual reset		0.2 (2)	manual reset	1.5 (15)	0.49
	HIGH SIDE	0.8 (8)	3 (30)	Automatic operation on pressure rise, and manual reset		2 (20)	manual reset	3.3 (33)	0.49

Enclosure: IP20

Drip Proof Models: Available upon request

Saginomiya Oil Protection Controls

Type ONS

- Provides dependable protection against major break-down on pressure lubricated refrigeration compressors by guarding against low lubrication oil pressure
- With manual reset
- Mounting bracket is supplied as standard
- Built in time delay switch
- Stainless steel models are available upon request

PART NO	RANGE		DIFFERENTIAL	TIMER SPECIFICATION			CONNECTION	WEIGHT (KG)
	MIN	MAX		DELAY TIME (SEC)	TIMER VOLTAGE	TIMER CIRCUIT		
ONS-C106XQ1	0.05 (0.5)	0.35 (3.5)		45	100/200V. AC		1/4" Flare Nut	0.55
ONS-C106XQ2	0.05 (0.5)	0.35 (3.5)		90	100/200V. AC		1/4" Flare Nut	0.55
ONS-C106XQ3	0.05 (0.5)	0.35 (3.5)		110	100/200V. AC		1/4" Flare Nut	0.55
ONS-C106XQ4	0.05 (0.5)	0.35 (3.5)		45	110/220V. AC		1/4" Flare Nut	0.55
ONS-C106XQ5	0.05 (0.5)	0.35 (3.5)		90	110/220V. AC		1/4" Flare Nut	0.55
ONS-C106XQ6	0.05 (0.5)	0.35 (3.5)		110	110/220V. AC		1/4" Flare Nut	0.55
ONS-C106XQ7	0.05 (0.5)	0.35 (3.5)		45	115/230V. AC		1/4" Flare Nut	0.55
ONS-C106XQ8	0.05 (0.5)	0.35 (3.5)		90	115/230V. AC		1/4" Flare Nut	0.55
ONS-C106XQ9	0.05 (0.5)	0.35 (3.5)		110	115/230V. AC		1/4" Flare Nut	0.55
ONS-C106XQ10	0.05 (0.5)	0.35 (3.5)		45	120/240V. AC		1/4" Flare Nut	0.55
ONS-C106XQ11	0.05 (0.5)	0.35 (3.5)		90	120/240V. AC		1/4" Flare Nut	0.55
ONS-C106XQ12	0.05 (0.5)	0.35 (3.5)		110	120/240V. AC			0.62
ONS-C106XL1Q1	0.05 (0.5)	0.35 (3.5)		45	100/200V. AC			0.62
ONS-C106XL1Q2	0.05 (0.5)	0.35 (3.5)		90	100/200V. AC			0.62
ONS-C106XL1Q3	0.05 (0.5)	0.35 (3.5)		110	100/200V. AC			0.62
ONS-C106XL1Q4	0.05 (0.5)	0.35 (3.5)		45	110/220V. AC			0.62
ONS-C106XL1Q5	0.05 (0.5)	0.35 (3.5)		90	110/220V. AC			0.62
ONS-C106XL1Q6	0.05 (0.5)	0.35 (3.5)		110	110/220V. AC			0.62
ONS-C106XL1Q7	0.05 (0.5)	0.35 (3.5)		45	115/230V. AC			0.62
ONS-C106XL1Q8	0.05 (0.5)	0.35 (3.5)		90	115/230V. AC			0.62
ONS-C106XL1Q9	0.05 (0.5)	0.35 (3.5)		110	115/230V. AC			0.62
ONS-C106XL1Q10	0.05 (0.5)	0.35 (3.5)		45	120/240V. AC			0.62
ONS-C106XL1Q11	0.05 (0.5)	0.35 (3.5)		90	120/240V. AC			0.62
ONS-C106XL1Q12	0.05 (0.5)	0.35 (3.5)		110	120/240V. AC			0.62
ONS-C106XQ25	0.05 (0.5)	0.35 (3.5)		45	100/200V. AC		1/4" Flare Nut	0.55
ONS-C106XQ26	0.05 (0.5)	0.35 (3.5)		90	100/200V. AC		1/4" Flare Nut	0.55
ONS-C106XQ27	0.05 (0.5)	0.35 (3.5)		110	100/200V. AC		1/4" Flare Nut	0.55
ONS-C106XQ28	0.05 (0.5)	0.35 (3.5)		45	110/220V. AC		1/4" Flare Nut	0.55
ONS-C106XQ29	0.05 (0.5)	0.35 (3.5)		90	110/220V. AC		1/4" Flare Nut	0.55
ONS-C106XQ30	0.05 (0.5)	0.35 (3.5)		110	110/220V. AC		1/4" Flare Nut	0.55
ONS-C106XQ31	0.05 (0.5)	0.35 (3.5)		45	115/230V. AC		1/4" Flare Nut	0.55
ONS-C106XQ32	0.05 (0.5)	0.35 (3.5)		90	115/230V. AC		1/4" Flare Nut	0.55
ONS-C106XQ33	0.05 (0.5)	0.35 (3.5)		110	115/230V. AC		1/4" Flare Nut	0.55
ONS-C106XQ34	0.05 (0.5)	0.35 (3.5)		45	120/240V. AC		1/4" Flare Nut	0.55
ONS-C106XQ35	0.05 (0.5)	0.35 (3.5)		90	120/240V. AC		1/4" Flare Nut	0.55
ONS-C106XQ36	0.05 (0.5)	0.35 (3.5)		110	120/240V. AC		1/4" Flare Nut	0.55
ONS-C106XL1Q25	0.05 (0.5)	0.35 (3.5)		45	100/200V. AC			0.62
ONS-C106XL1Q26	0.05 (0.5)	0.35 (3.5)		90	100/200V. AC			0.62
ONS-C106XL1Q27	0.05 (0.5)	0.35 (3.5)		110	100/200V. AC			0.62
ONS-C106XL1Q28	0.05 (0.5)	0.35 (3.5)		45	110/220V. AC			0.62
ONS-C106XL1Q29	0.05 (0.5)	0.35 (3.5)		90	110/220V. AC			0.62
ONS-C106XL1Q30	0.05 (0.5)	0.35 (3.5)		110	110/220V. AC			0.62
ONS-C106XL1Q31	0.05 (0.5)	0.35 (3.5)		45	115/230V. AC			0.62
ONS-C106XL1Q32	0.05 (0.5)	0.35 (3.5)		90	115/230V. AC			0.62
ONS-C106XL1Q33	0.05 (0.5)	0.35 (3.5)		110	115/230V. AC			0.62
ONS-C106XL1Q34	0.05 (0.5)	0.35 (3.5)		45	120/240V. AC			0.62
ONS-C106XL1Q35	0.05 (0.5)	0.35 (3.5)		90	120/240V. AC			0.62
ONS-C106XL1Q36	0.05 (0.5)	0.35 (3.5)		110	120/240V. AC			0.62

Working Pressure: 1.5 MPa (15 kgf/cm²)

Limit of Pressure Diff. $H_p \geq L_p$: 1.5 MPa (15 kgf/cm²), H_p represents oil pump discharge pressure and L_p crank case pressure.

Enclosure: IP20. Drip Proof Models: Available upon request.

Saginomiya Temperature Controls - General Purpose

Type TNS, CNS & INS

- Type TNS is provided with a differential adjustable mechanism
- Type CNS is provided with a fixed differential. Manual Reset models are also available
- Type INS provides automatic High-Cut temp. control with manual reset
- Narrow and adjustable temp. diff. for more accurate control model Type BNS is available
- Available drip proof enclosure for marine application or explosion proof enclosure for special application
- A mounting bracket is supplied as standard
- With SPDT contact mechanism

PART NO	RANGE		DIFFERENTIAL		FACTORY SETTING		LIMIT TEMP	BULB SIZE (MM)		USAGWEIGHT		
	MIN	MAX	MIN	MAX	OFF (ON)	ON (OFF)		A	B CONDITION(KG)			
TNS-C100X	-25	0	Bottom 4.5	Top 3	15	-18	-15	70	6	80	TS>TB	0.34
TNS-C114X	-15	15	Bottom 4.5	Top 3	15	-3	0	70	6	80	TS>TB	0.34
TNS-C134X	0	35	Bottom 4.5	Top 3	15	17	20	70	6	80	TS>TB	0.34
TNS-C1070X	45	75	4	20	61	65	115	12.7	100	TS<TB	0.37	
TNS-C1100X	65	105	4	20	71	75	140	12.7	100	TS<TB	0.37B	
TNS-C1120X	95	125	5	20	110	115	160	12.7	100	TS<TB	0.37	
TNS-C1150X	115	150	5	20	140	145	180	12.7	100	TS<TB	0.37	
TNS-C1010XC	-45	10	4	20	-4	0	45	12.7	100	TS<TB	0.37	
TNS-C1034XC	-20	35	4	20	16	20	70	12.7	100	TS<TB	0.37	
TNS-C1070XC	15	70	4	20	36	40	115	12.7	100	TS<TB	0.37	
TNS-C114XQ009	-30	15	Bottom 5	Top 2	15	-8	-5	120	Capillary Tube Type		TS>TB	0.37
TNS-C114XQ010	-30	15	Bottom 5	Top 2	15	-8	-5	120	Capillary Coil Type		TS>TB	0.37
TNS-C134XQ009	-5	35	Bottom 5	Top 2	15	12	15	120	Capillary Tube Type		TS>TB	0.37
TNS-C134XQ010	-5	35	Bottom 5	Top 2	15	12	15	120	Capillary Tube Type		TS>TB	0.37

Type CNS-Automatic Reset Type

PART NO	RANGE		DIFFERENTIAL		FACTORY SETTING		LIMIT TEMP	BULB SIZE (MM)		USAGWEIGHT	
	MIN	MAX	MIN	MAX	OFF (ON)	ON (OFF)		A	B CONDITION(KG)		
CNS-C115X	-35	-15	Bottom 4	Top 3	-28	-25	70	6	80	TS>TB	0.34
CNS-C100X	-25	0	Bottom 4	Top 3	-18	-15	70	6	80	TS>TB	0.34
CNS-C114X	-15	15	Bottom 4	Top 3	-3	0	70	6	80	TS>TB	0.34
CNS-C134X	0	35	Bottom 4	Top 3	17	20	70	6	80	TS>TB	0.34

Saginomiya Temperature Controls



Type ALS & BLS

- Wide temp. range and narrow fixed differential. One control can meet most of your refrigeration or heating applications
- Easy and accurate setting with large external dial
- Tin plating of bulk and capillary for food
- SUS of main body for anti-corrosion and high durability, ABS resin of cover for anti-static
- With SPDT contact mechanism
- Insert holder is available upon request
- Can mount horizontal and vertical position

TYPE NUMBER SELECTION (SPECIFICATIONS)

PART NO	RANGE		DIFFERENTIAL	LIMIT BULB TEMP	BULB SIZE (MM)	CAPILLARY TUBE LENGTH	WEIGHT (KG)
	MIN	MAX					
BLS-C1020L1	-20	20	Approx 2.0 (Fixed)	60	Ø10X100	Ø2.4X1000	0.3
ALS-C1011L1	-60	-10	Approx 2.5 (Fixed)	60	Ø10X100	Ø2.4X1000	0.3
ALS-C1020L1	-40	20	Approx 2.5 (Fixed)	80	Ø10X100	Ø2.4X1000	0.3
ALS-C1050L1	-10	50	Approx 2.5 (Fixed)	110	Ø10X100	Ø2.4X1000	0.3
ALS-C1090L1	40	90	Approx 2.5 (Fixed)	150	Ø10X100	Ø2.4X1000	0.3

When ordering model with earth terminal, add a suffix "x" to Catalogue No. Other capillary length is available upon request

ELECTRICAL RATINGS

RATED VOLTAGE (V) RATED AMPS (A)	POWER FACTOR (COSØ)	125V. AC	250V. AC	450V. AC	24V. DC	125V. DC
NON-INDUCTIVE CURRENT	1	10	5	2	5	0.5
INDUCTIVE CURRENT FULL LOAD	0.75	8.5	4.5	1	3	0.2
INDUCTIVE CURRENT LOCKED ROTOR	0.45	50	37	10	10	5

Gauges

We can supply a comprehensive range of marine gauges.

Standard Gauges

PART NO.	CONNECTION	DESCRIPTION
100TAB682F	1/4" flare	Pressure gauge, 100mm surface mount, bottom entry, 0 to 360psi, R22, R12, R502
100TAE682F	1/4" flare	Pressure gauge, 100mm flush mount (clamp fixing) rear entry, 0 to 360psi, R22, R12, R502
100TAB682F	1/4" flare	Compound gauge, 100mm surface mount, bottom entry, 30" Hg-160psi, R22, R12, R502
100TAE682F	1/4" flare	Compound gauge, 100mm flush mount (clamp fixing) rear entry, 30" Hg-160psi R22, R12, R502

Oil Gauges

PART NO.	CONNECTION	DESCRIPTION
63AAB342	1/4" flare	63mm surface mount, bottom entry, Glycerine filled 0 to 160 psi
100AAB342	1/4" flare	100mm surface mount, bottom entry, Glycerine filled, 0 to 160 psi

Refrigeration Pressure Gauges – for use with refrigerants

PART NO.	TYPE	SIZE MM	RANGE BAR	REFRIGERANT
R19767	Pressure	100	-1/+12	R717
R23028	Pressure	100	-1/+25	R717
R49008	Pressure	100 (Rear)	-1/+12	R717
R50442	Pressure	100 (Rear)	-1/+25	R717
R48405	Duplex	100	-1/+12	R717
R48390	Duplex	100	-1/+25	R717
R19997	Differential	100	-1/+12	R717
R48671	Differential	100	-1/+25	R717
R44596	Pressure	100	-1/+12	R22/134A/404A
R44597	Pressure	100	-1/+25	R22/134A/404A
R49192	Pressure	80	-1/+25	R22/134A/404A
R50079	Pressure	80	-1/+12	R22/134A/404A
R49376	Pressure	80	-1/+12	R407C DP
R52040	Pressure	80	-1/+25	R407C BP



Service Replacement Refrigeration Pressure Gauges

PART NO.	TYPE	SIZE MM	RANGE BAR	REFRIGERANT
R40192	Suction	100	-1/+15	R22
R39435	Discharge	100	-1/+35	R22
R40191	Suction/Oil	100	-1/+15	R22
R41939	Discharge/Oil	100	-1/+35	R22
R40500	Thermometer	100	0/+150	
000633-007	Discharge	88x88	-1/+25	R22/404A/134a
000529-021	Suction/Oil	88x88	-1/+12	R22/404A/134a
R50345	Discharge	100	-1/+25	R404A/134a/22
R48748	Suction/Oil	100	-1/+12	R404A/134a/22

Stainless Steel Gauges – 63mm diameter, dry pressure gauge

PART NO.	RANGE
RB262A213S	-1/+11
RB262A254S	0/+28

Mounting Flanges – for use with circular gauges

PART NO.	TYPE	SIZE MM
3085	Back Flange	80
660	Front Flange	80
4178	U Clamp	80
3098	Back Flange	100
580	Front Flange	100
768	U Clamp	100

Interchangeable Connectors – for use with 80mm and 100mm gauges

PART NO.	TYPE	SIZE MM
671	BSP	1/4"
523	BSP	3/8"
560	BSP	1/2"
672	Flare	1/4"
682	NPT	1/4"
689	BSP	1/4"
679	BSP	3/8"
678	BSP	1/2"
2367	Compression	6mm
3734	NPT	1/4"
677	NPT	1/2"
1051	Gasket	

Pressure Gauges

PART NO.	DESCRIPTION	NOTE
1541-071	Suction & Oil Pressure Gauge	Was 1541-251
1541-072	Discharge Pressure Gauge	Was 1541-191
1541-074	Suction & Oil Pressure Gauge	Was 1541-232
1541-075	Discharge Pressure Gauge	Was 1541-160



Section G

Hermetically sealed compressors

Hermetically Sealed Compressors

We can offer a wide range of hermetically sealed compressors and spares.

Danfoss Compressors

LST - LBP R134a (220-240v 50Hz)

PART NO.	APPROX HP	DISPC.C
109B0009	1/6	5.08
195B0090	1/5	6.13
195B0091	1/5	7.27
195B0092	1/4	8.35
195B0093	1/4	11.15

HST - LBP R134a (220-240v 50Hz)

PART NO.	APPROX HP	DISPC.C
195B0241	1/6	5.08
195B0267	1/6	7.27
195B0052	1/3	15.28
195B0057	2/5	17.69
195B0047	1/2	20.95

HST - L/M/HBP R134a (220-240v 50Hz)

PART NO.	APPROX HP	DISPC.C
195B0011	1/8	5.08
195B0024	1/6	6.93
195B0026	1/5	7.95
195B0027	1/4	9.05
195B0028	1/4	11.15
195B0042	1/3	12.87
195B0053	1/3	15.28
195B0059	2/5	17.69



Copeland Scroll Compressors

We can supply a range of compressors, supplied with Ester Oil.
This is just a small selection – for further information, please contact us.

(220-240Vv)

PART NO.	APPROX HP
ZR18KE-PFJ	1-1/2
ZR22KE-PFJ	1-3/4
ZR28KE-PFJ	2-1/2
ZR34KE-PFJ	3
ZR40KE-PFJ	3-1/2
ZR48KE-PFJ	4
ZR61KE-PFJ	5
ZB15KE-PFJ	2
ZB19KE-PFJ	2-1/2
ZB21KE-PFJ	3
ZB26KE-PFJ	3-1/2

(380-440v)

PART NO.	APPROX HP
ZR22KE-TFD	1-3/4
ZR28KE-TFD	2-1/2
ZR34KE-TFD	3
ZR40KE-TFD	3-1/2
ZR48KE-TFD	4
ZR61KE-TFD	5
ZR72KE-TFD	6
ZR81KE-TFD	6-1/2
ZR90KE-TWD	7-1/2
ZR94KE-TFD	8
ZR11ME-TWD	9
ZR12ME-TWD	10
ZR16ME-TWD	13
ZB15KE-TFD	2
ZB19KE-TFD	2-1/2
ZB21KE-TFD	3
ZB26KE-TFD	3-1/2
ZB30KE-TFD	4
ZB38KE-TFD	5
ZB45KE-TFD	6
ZB57KE-TWD	7-1/2
ZB76KE-TFD	10
ZB95KE-TFD	12



3PH – Medium / High Temperature

PART NO.	APPROX HP
ZB66KCE-TFD	9
ZB76KCE-TFD	10
ZB95KCE-TFD	13
ZB114KCE-TFD	15

3PH – Low Temperature

PART NO.	APPROX HP
ZF25K6E-TFD	7-1/2
ZF34K6E-TFD	9
ZF41K6E-TFD	10
ZF49K6E-TFD	13

Copeland Digital Scroll Compressors**3PH – Medium / High Temperature**

PART NO.	APPROX HP
ZF25K6E-TFD	7-1/2
ZF34K6E-TFD	9
ZF41K6E-TFD	10
ZF49K6E-TFD	13

Copeland ZF EVI Scroll Compressors with Vapour Injection**3PH – Low Temperature**

PART NO.	APPROX HP
ZF13KVE-TFD-EVI	4
ZF18KVE-TFD-EVI	6
ZF24KVE-TFD-EVI	7-1/2
ZF33KVE-TFD-EVI	10
ZF40KVE-TFD-EVI	13
ZF48KVE-TFD-EVI	15



We can supply a range of compressors, supplied with Ester Oil.
This is just a small selection from our range – for further information, please contact us.

Run Capacitors – suitable for single-phase compressors

PART NO.	TO SUIT	μF
I1510	ZR18	30
I1511	ZR22 / ZB15	40
I1512	ZR28 / ZB19	45
I1513	ZR34 / ZB21	50
I1514	ZR40	55
I1515	ZR48 / ZB26	60

Start Capacitors – suitable for single-phase compressors

PART NO.	TO SUIT
I1500	ZR18 / ZR22 / ZR28 / ZR34 / ZR40 / ZR48
I1530	ZB15 / ZB19 / ZB21 – ZB26

Potential Start Relay — suitable for single-phase compressors

PART NO.	TO SUIT
I1500	ZR18 / ZR22 / ZR28 – ZR34 / ZR40 / ZR48
I1530	ZB15 / ZB19 / ZB21/ ZB26

Rotolock Valves (Suction: 1-1/4"–12 / 7/8" and Discharge: 1"-14 / 5/8")

PART NO.	TO SUIT
IS982	ZB15-ZB45 / ZF06-ZF18 / ZR18-ZR72

Rotolock Valve Adaptor Kit – converts a brazed stub compressor to use with rotolock valves (pair of white rotolock valve gaskets included)

PART NO.	TO SUIT
IS984	ZR18 to ZR61

Universal Crankcase Heater – fits around a 300mm maximum diameter

PART NO.	TO SUIT
I540	CH-1 Crankcase Heater 65w x 950 long

Tecumseh Compressors

1PH – CSR Air Conditioning R407C

PART NO.	CONNECTION	APPROX HP	DISP.C
AE5465C	Tube	1/2	10.33
AJ5510C	Tube	3/4	18.60
AJ5512C	Tube	7/8	21.75
AJ5513C	Tube	1	24.20
AJ5515C	Tube	1-1/4	25.95
AJ5518C	Tube	1-1/2	32.70
AJ5519C	Tube	1-1/2	34.45
FH5522C	Tube	1-3/4	39.95
FH5524C	Tube	2	43.50
FH5527C	Tube	2-1/4	49.10
FH5531C	Tube	2-1/2	56.65
FH5540C	Tube	3	74.25

3PH – Air Conditioning R407C

PART NO.	CONNECTION	APPROX HP	DISP.C
TAJ5515C	Tube	1-1/4	25.95
TAJ5519C	Tube	1-1/2	34.45
TFH5522C	Tube	1-3/4	39.95
TFH5524C	Tube	2	43.50
TFH5527C	Tube	2-1/4	49.10
TFH5531C	Tube	2-1/2	56.65
TFH5540C	Tube	3	74.25
TAG5546C	Tube	4	90.20
TAG5553C	Tube	4-1/2	100.70
TAG5561C	Tube	5	112.50
TAG5568C	Tube	6	124.40
TAG5572C	Tube	6-1/2	134.80

*CSR models are High Start Torque and include relay, start capacitor and run capacitor

1PH LST LBP R134a/R513A

PART NO.	CONNECTION	APPROX HP	DISP.C.C
THG1335YKS	Tube	1/9	3.58
THG1340YKS	Tube	1/8	4.23
THG1352YKS	Tube	1/7	5.60
THG1365YKS	Tube	1/6	6.10
AE1390Y	Tube	1/3	8.00

1PH HST LBP R134a/R513A

PART NO.	CONNECTION	APPROX HP	DISP.C.C
AE2410Y	Tube	1/4	9.40
AE2413Y	Tube	1/3	12.00
AE2415Y	Tube	3/8	12.50

1PH HST HBP R134a/R513A

PART NO.	CONNECTION	APPROX HP	DISP.C.C
THB4410Y	Tube	1/10	2.72
THB4413Y	Tube	1/8	3.60
THB4415Y	Tube	1/6	4.23
THB4419Y	Tube	1/5	5.00
THB4422Y	Tube	1/5	5.90
AE4425Y	Tube	1/5	6.69
AE4430Y	Tube	1/4	8.02
AE4440Y	Tube	1/3	10.33
AE4450Y	Tube	3/8	13.24
AE4456Y	Tube	3/8	14.51
AE4460Y	Tube	1/2	15.09
CAJ4452Y	Tube	3/8	15.20
CAJ4452Y	Valve	3/8	15.20
CAJ4461Y	Tube	1/2	18.30
CAJ4461Y	Valve	1/2	18.30
CAJ4476Y	Tube	5/8	22.80
CAJ4476Y	Valve	5/8	22.80
CAJ4492Y	Tube	3/4	25.95
CAJ4492Y	Valve	3/4	25.90
CAJ4511Y	Tube	1	32.70
CAJ4511Y	Valve	1	32.70
CAJ4513Y	Tube	1	34.45
CAJ4513Y	Valve	1	34.45
FH4518Y	Tube	1-1/2	53.20
FH4518Y	Valve	1-1/2	53.20
FH4525Y	Tube	2	74.25
FH4525Y	Valve	2	74.75

*Please ensure you state the required voltage and cycles

1PH HST LBP R404A/R452A

PART NO.	CONNECTION	APPROX HP	DISP.C.C
AE2410Z	Tube	1/4	5.02
AE2415Z	Tube	3/8	7.33
AE2420Z	Tube	1/2	9.35
AE2425Z	Tube	5/8	12.01
CAJ2428Z	Tube	3/4	15.20
CAJ2428Z	Valve	3/4	15.20
CAJ2432Z	Tube	3/4	18.30
CAJ2432Z	Vale	3/4	18.30
CAJ2440Z	Tube	1	21.0
CAJ2440Z	Valve	1	21.0
CAJ2446Z	Tube	1-1/4	26.20
CAJ2446Z	Valve	1-1/4	26.20
CAJ2464Z	Tube	1-1/2	34.50
CAJ2426Z	Valve	1-1/2	34.50
FH2480Z	Valve	2	53.20
FH2511Z	Valve	2-1/2	74.20

3PH – LBP R404A/R452A

PART NO.	CONNECTION	APPROX HP	DISP.C.C
TAJ2446Z	Valve	1-1/4	26.20
TAJ2464Z	Tube	1-1/2	34.50
TAJ2464Z	Valve	1-1/2	34.50
TFH2480Z	Valve	2	53.20
TFH2480Z	Tube	2	53.20
TFH2511Z	Tube	2-1/2	74.20
TFH2511Z	Valve	2-1/2	74.20
TAG2513Z	Tube	3-1/2	100.70
TAG2516Z	Valve	4	112.50
TAG2522Z	Valve	5-1/2	135.00
TAG2525Z	Tube	6	145.00

1PH HST HBP R404A/R452A/R449A

PART NO.	CONNECTION	APPROX HP	DISP.C.C
AE4425Z	Tube	1/5	4.24
AE4430Z	Tube	1/4	5.16
AE4440Z	Tube	3/8	6.69
AE4450Z	Tube	3/8	8.85
AE4460Z	Tube	1/2	10.33
AE4470Z	Tube	5/8	12.01
CAJ9480Z	Tube	5/8	15.20
CAJ9480Z	Vale	5/8	15.20
CAJ9510Z	Tube	3/4	18.30
CAJ9510Z	Valve	3/4	18.30
CAJ9513Z	Tube	1	24.20
CAJ9513Z	Valve	1	24.20
CAJ4517Z	Tube	1-1/4	25.95
CAJ4517Z	Valve	1-1/4	25.95
CAJ4519Z	Tube	1-1/2	34.45
CAJ4519Z	Valve	1-1/2	34.45
FH4522Z	Valve	1-5/8	39.90
FH4524Z	Valve	2	43.50
FH4531Z	Valve	2-1/2	56.60
FH4540Z	Valve	3-1/2	74.20

Tecumseh Rotary Compressors

This range of compressors can be used as replacements in many types of air conditioning systems

PSC – Air Conditioning R407C

PART NO.	DISP. C.C
RK5480C	11.40
RK5490C	12.90
RK5510C	14.60
RK5512C	16.30
RK5513C	18.10
RK5515C	21.40
RK5518C	24.40

*When selecting an equivalent, you must not compare the displacement of a rotary with that of a reciprocating compressor

R290 Compressors

1PH – LBP R290

PART NO.	DISP. C.C
AE2410U	5.48
AE2415U	8.85
AE2420U	10.96
CAJ2446U	26.20
CAJ2464U	34.50

R1234yf Compressors

PART NO.	DISP. C.C
AE4430H	8.02
AE4440H	10.33
CAJ4492N	25.90
CAJ4511N	32.70
CAJ4513N	34.45

*Please ensure you state the required voltage and cycles



Tecumseh X Range Multi Refrigerant Compressors

1PH – LBP X Range Multi Refrigerant R404A/R452A

PART NO.	DISP. C.C
CAJ2428X	15.20
CAJ2432X	18.30
CAJ2440X	21.00
CAJ2446X	26.20
CAJ2464X	34.50
FH2480X	53.20
FH2511X	74.20

3PH – LBP X Range Multi Refrigerant R404A/R452A

PART NO.	DISP. C.C
TAJ2440X	21.00
TAJ2446X	26.20
TAJ2464X	34.50
TFH2480X	53.20
TFH2511X	74.20
TAG2513X	100.70
TAG2516X	112.50
TAG2522X	135.00
TAG2525X	145.00

1PH – HBP X Multi Refrigerant R404A/R452A/R134A/R513A

PART NO.	DISP. C.C
CAJ9480X	15.20
CAJ9510X	18.30
CAJ9513X	24.20
CAJ4517X	25.95
CAJ4519X	34.45
FH4522X	39.90
FH4524X	43.50
FH4531X	56.60
FH4540X	74.20

3PH – HBP X Range Multi Refrigerant R404A/R452A/R134a/R513A

PART NO.	DISP. C.C
TAJ9480X	15.20
TAJ9510X	18.30
TAJ9513X	24.20
TAJ4517X	25.95
TAJ4519X	34.45
TFH4522X	39.90
TFH4524X	43.50
TFH4531X	56.60
TFH4540X	74.20
TAG4546X	90.20
TAG4553X	100.70
TAG4561X	112.50
TAG4568X	124.40
TAG4573X	135.00
TAG4581X	145.00

Tecumseh/L'Unite Hermetique Compressor Spares

Suction Rotolock Valves

PART NO.	SIZE	ROTOLOCK VALVES TO SUIT L'UNITE MODELS
8683049	(1"-14) 1/2"	CAJ2428Z, CAJ2432Z, CAJ2446Z, CAJ9480Z, CAJ4452Y, CAJ4461Y, CAJ4476Y, CAJ4492Y
8683059	(1"-14) 5/8"	CAJ2464Z, CAJ9510Z CAJ9513Z, CAJ4517Z, CAJ4519Z, TAJ9513Z, TAJ4517Z, TAJ4519Z, CAJ4511Y, TAJ4511Y
660062	(1-1/4"-12) 5/8"	FH2480Z, FH2511Z, TFH2480Z, TFH2511Z, FH4524Z, TFH4524Z, FH4518Y, FH4525Y, TFH4518Y, TFH4525Y
660063	(1-1/4"-12) 7/8"	FH4531Z, FH4540Z, TFH4531Z, TFH4540Z, TAG2516Z, TAG4546Z, TAG4553Z
660064	(1-1/4"-12) 1-1/8"	TAG2522Z, TAG4561Z, TAG4568Z, TAG4573Z

Discharge Rotolock Valves

PART NO.	SIZE	ROTOLOCK VALVES TO SUIT L'UNITE MODELS
8683049	(1"-14) 1/2"	FH2480Z, FH2511Z, TFH2480Z, FH4524Z, TFH4524Z, FH4518Y, FH4525Y, TFH4518Y, TFH4525Y, FH4531Z, FH4540Z, TFH4531Z, TFH4540Z
660062	(1-1/4"-12) 5/8"	TAG2513Z, TAG2516Z, TA

Discharge Rotolock Valves

PART NO.	SIZE	DESCRIPTION
8361007	1"-14	White PTFE Rotolock Valve Gasket
8361006	1-1/4"-12	White PTFE Rotolock Valve Gasket
8361023	1-3/4"-12	White PTFE Rotolock Valve Gasket

Embraco Compressors

Refrigerant R404A LBP 1PH HST

PART NO.	CONNECTION	APPROX HP	DISP.C.C
NE213GK	Tube	3/8	8.80
NEK2168GK	Tube	3/4	17.40
T2178GK	Tube	3/4	20.40
T2180GK	Tube	3/4	22.40
NJ2192GK	Tube	1	26.20
NJ2192GH	Valve	1	26.20
NJ2212GK	Tube	1-1/4	34.37

Refrigerant R404A HBP/MBP 1PH HST

PART NO.	CONNECTION	APPROX HP	DISP.C.C
EMT6144GK	Tube	1/5	4.40
NEK6181GK	Tube	1/3	7.40
NEK6210GK	Tube	1/2	8.90
NEK6213GK	Tube	1/2	12.11
NEK6217GK	Tube	5/8	14.30
T6217GK	Tube	3/4	14.50
NT6220GK	Tube	5/8	17.40
T6222GK	Tube	3/4	20.40
NJ9226GK	Valve	3/4	21.70
NT6226GK	Tube	3/4	21.70
NJ9232GK	Valve	1	26.20
NJ9238GK	Valve	1-1/2	32.70
NJ9238GK	Tube	1-1/2	32.70

Daikin Compressors

PART NO.	DESCRIPTION
JT112BK-YE	HERMETICALLY SEALED COMPRESSOR
JT140B-YE	HERMETICALLY SEALED COMPRESSOR
JT150B-YE	HERMETICALLY SEALED COMPRESSOR
JT224A-YE	HERMETICALLY SEALED COMPRESSOR
JT236DD-FYE	HERMETICALLY SEALED COMPRESSOR
JT300DA-YE	HERMETICALLY SEALED COMPRESSOR
JT300DD-FYE	HERMETICALLY SEALED COMPRESSOR



Maneurop Compressors

MTZ for R404A, R507, R134a and R407C

PART NO	MODEL	NOMINAL H.P.
400150	MTZ18-5VI 1PH	1.5
400151	MTZ18-4VI 3PH	1.5
400152	MTZ22-5VI 1PH	1.8
400153	MTZ22-4VI 3PH	1.8
400154	MTZ28-5VI 1PH	2.3
400155	MTZ28-4VI 3PH	2.3
100156	MTZ32-5VI 1PH	2.7
400157	MTZ32-4VI 3PH	2.7
400158	MTZ36-5VI 1PH	3
400159	MTZ36-4VI 3PH	3
400160	MTZ40-4VI 1PH	3.3
400161	MTZ44-4VI 3PH	3.6
400162	MTZ50-4VI 3PH	4.2
400163	MTZ56-4VI 3PH	4.7
400164	MTZ64-4VI 3PH	5.3
400165	MTZ72-4VI 3PH	6
400166	MTZ80-4VI 3PH	6.7
400167	MTZ100-4VI 3PH	8.3
400168	MTZ125-4VI 3PH	10.4
400169	MTZ144-4VI 3PH	12
400170	MTZ160-4VI 3PH	13.3

**1PH = 220-240v / 50/60Hz

**3PH = 380-440v / 50/60Hz

Single Scrolls – R407C (Charged with Ester Oil. Brazed connection with oil sight glass)

PART NO.	MODEL
401130	SZ084-4VI
401131	SZ090-4VI
401126	SZ100-4VI
401134	SZ115-4CAI
401100	SZ120-4VI
401134	SZ125-4CAI
104435	SZ160-4CBI
401136	SZ175-4CAI
401129	SZ185-4CAI

Single Scroll – R407C (Charged with Ester Oil. Rotolock connection with oil sight glass)

PART NO.	MODEL
401115	SZ115-4RI
401116	SZ125-4RI
401117	SZ160-4RI
401118	SZ175-4RI
401119	SZ185-4RI

Maneurop Compressor Spares

Starting Kits – Single Phase MT/MTZ

PART NO.	DESCRIPTION
4482	CSR 2/5 Start Kit (loose components) for MT/MTZ 018-022-028
4484	CSR 28.5 Start Kit (pre-wired in terminal box) for MT/MTZ 018-022-028
4483	CSR 3/5 Start Kit (loose components) for MT/MTZ 032-036
4486	CSR 32 Start Kit (pre-wired in terminal box) for MT/MTZ 032-036

Crankcase Heater

PART NO.	TYPE	WATTAGE	FOR USE WITH
4455	PTC	35W	MT/MTZ 018-160
4515	Insertion	100Wx2	MT/MTZ 200-320

Universal Belt Type

PART NO.	TYPE	WATTAGE	MIN LENGTH	MAX LENGTH	VOLTAGE
4350	CH-101	54W	27"	34"	240V AC
4351	CH-102	60W	25"	32"	240V AC

Rotolock Service Valves

PART NO.	MODEL	FOR USE WITH	
4456	V01 1x3/8	MT/MTZ 018-028	Discharge
4459	V04 1 1/4 x 3/4	MT/MTZ 044-081	Discharge
4460	V05 1 1/4 x 7/8	MT/MTZ 100-160	Discharge
4457	V06 1 x 1/2	MT/MTZ 032-40	Discharge
4461	V07 1 3/4 x 7/8	LTZ 040-044	Discharge
4462	V02 1 3/4 x 1 1/8	MT/MTZ 080-161	Suction
4457	V06 1 x 1/2	MT/MTZ 018-028	Suction
4461	V07 1 3/4 x 7/8	MT/MTZ 044-073	Suction
4464	V08 2 1/4 x 1 3/8	SM/Z 160-185	Suction
4458	V09 1 1/4 x 5/8	MT/MTZ 032-040	Suction

Rotolock 90° Angle Adaptors

PART NO.	MODEL	FOR USE WITH	
4465	C01 1 x 3/8	MT/MTZ 018-028MT	Discharge
4468	C04 1 1/4 x 3/4	MT/MTZ 044-080	Discharge
4466	C06 1 x 1/2	MT/MTZ 032-40	Discharge
4470	C02 1 3/4 x 1 1/8	MT/MTZ 080-160	Suction
4466	C06 1 x 1/2	MT/MTZ 018-028	Suction
4469	C07 1 3/4 x 7/8	MT/MTZ 044-072	Suction
4467	C09 1 1/4 x 5/8	MT/MTZ 032-040	Suction
4508	G02 1 3/4	Rotolock Gasket	
4507	G04 1 1/4	Rotolock Gasket	
400508	G08 2 1/4	Gasket Set	
4506	1"	Rotolock Gasket	

Mineral Oil (White Oil)

PART NO.	DESCRIPTION
7754001	160P 2L for use in MT/SM
7754002	160P 5L for use in MT/SM



Section H

Tube insulation, mounting channels,
clamps, wall brackets and guards

Copper Tube

6 Metre Copper Tube

PART NO.	SIZE O.D	GAUGES	REF. SUITABILITY
A723 6m Copper Tube	1/4 x	22	R404A R410A
NA724 6m Copper Tube	3/8 x	21	R404A R410A
A725 6m Copper Tube	1/2 x	21	R404A R410A
A726 6m Copper Tube	5/8 x	20	R404A R410A



15 Metre Copper Tube

PART NO.	SIZE O.D	GAUGES	REF. SUITABILITY
A731 15m Copper Tube	3/16 x	22	R404A R410A
A732 15m Copper Tube	3/4 x	22	R404A R410A
A733 15m Copper Tube	35/16 x	22	R404A R410A
A734 15m Copper Tube	33/8 x	21	R404A R410A
A735 15m Copper Tube	31/2 x	21	R404A R410A
A736 15m Copper Tube	35/8 x	20	R404A R410A
A737 15m Copper Tube	33/4 x	19	R404A R410A
A738 15m Copper Tube	37/8 x	19	R404A R410A

30 Metre Copper Tube

PART NO.	SIZE O.D	GAUGES	REF. SUITABILITY
A739 30m Copper Tube	3/16 x	22	R404A R410A
A741 30m Copper Tube	1/4 x	22	R404A R410A
A742 30m Copper Tube	5/16 x	22	R404A R410A
A743 30m Copper Tube	3/8 x	21	R404A R410A
A744 30m Copper Tube	1/2 x	21	R404A R410A
A745 30m Copper Tube	5/8 x	20	R404A R410A
A746 30m Copper Tube	3/4 x	19	R404A R410A
A747 30m Copper Tube	7/8 x	18	R404A R410A



Copper Tube

3 Metre Straight

PART NO.	SIZE O.D		GAUGES	REF. SUITABILITY	
A750	3/8	x	21	R404A	R410A
A751	1/2	x	20	R404A	R410A
A752	5/8	x	20	R404A	R410A
A802	3/4	x	19	R404A	R410A
A753	3/4	x	19	R404A	R410A
A803	7/8	x	18	R404A	R410A
A804	1-1/8	x	18	R404A	R410A
A755	1-1/8	x	18	R404A	R410A
A805	1-3/8	x	16	R404A	R410A
A756	1-3/8	x	18	R404A	R410A
A806	1-5/8	x	16	R404A	R410A
A757	1-5/8	x	18	R404A	R410A
A807	2-1/8	x	16	R404A	R410A

6 Metre Straight

PART NO.	SIZE O.D		GAUGES	REF. SUITABILITY	
A764	3/8	x	21	R404A	R410A
A765	1/2	x	20	R404A	R410A
A822	5/8	x	18	R404A	R410A
A766	5/8	x	20	R404A	R410A
A767	3/4	x	19	R404A	R410A
A823	3/4	x	18	R404A	R410
A836	7/8	x	16	R404A	R410A
A824	7/8	x	18	R404A	R410A
A769	1-1/8	x	18	R404A	R410A
A825	1-1/8	x	16	R404A	R410A
A770	1-3/8	x	18	R404A	
A826	1-3/8	x	16	R404A	R410A
A771	1-5/8	x	18	R404A	
A780	1-5/8	x	16	R404A	R410A
A772	2-1/8	x	18		
A781	2-1/8	x	16	R404A	
A782	2-1/8	x	14	R404A	
A773	2-5/8	x	16		
A783	2-5/8	x	14	R404A	
A784	2-5/8	x	12	R404A	
A774	3-1/8	x	16		

Capillary Tube

Refrigeration quality annealed Capillary Tube in 30m Coils

PART NO.	BORE I.D.	WALL THICKNESS MM
A710	.026	.022
A711	.031	.022
A712	.036	.0195
A713	.042	.0215
A714	.047	.019
A715	.052	.019
A716	.064	.023

K65 is available in 2 gauges making it suitable for sub and trans-critical applications, depending on system requirements. The 6m lengths are rated to 80 bar, whilst the 5m lengths are rated at 120 bar.

K65 - 6 Metre Straight Length

PART NO.	SIZE O.D.		WALL THICKNESS	MAX ALLOWANCE PRESSURE (BAR G)
A7101	1/2	x	0.60mm	80
A7102	5/8	x	0.75	80
A7103	3/4	x	0.90	80
A7104	7/8	x	1.00	80
A7105	1 1/8	x	1.30	80
A7106	1 3/8	x	1.60	80
A7107	1 5/8	x	1.90	80

K65 - 5 Metre Straight Length

PART NO.	SIZE O.D.		WALL THICKNESS	MAX ALLOWANCE PRESSURE (BAR G)
A7120	3/8	x	0.65mm	120
A7121	1/2	x	0.85	120
A7122	5/8	x	1.05	120
A7123	3/4	x	1.30	120
A7124	7/8	x	1.50	120
A7125	1 1/8	x	1.90	120
A7126	1 3/8	x	2.30	120
A7127	1 5/8	x	2.70	120

Tube Insulation

2M Length x 9mm Wall

PART NO.	SIZE	BORE I.D	LENGTHS / CARTON
A8075	2m x 9mm Tube Insulation	06-9	1/4 176
A8076	2m x 9mm Tube Insulation	10-9	3/8 133
A8077	2m x 9mm Tube Insulation	12-9	1/2 117
A8078	2m x 9mm Tube Insulation	15-9	5/8 96
A8079	2m x 9mm Tube Insulation	20-9	3/4 68
A8080	2m x 9mm Tube Insulation	22-9	7/8 68
A8081	2m x 9mm Tube Insulation	28-9	1 1/8 49
A8082	2m x 9mm Tube Insulation	35-9	1 3/8 38
A8083	2m x 9mm Tube Insulation	42-9	1 5/8 30
A8084	2m x 9mm Tube Insulation	54-9	2 1/8 23

2M Length x 13mm Wall

PART NO.	SIZE	BORE I.D	LENGTHS / CARTON
A8095	2m x 13mm Tube Insulation	06-13	1/4 110
A8096	2m x 13mm Tube Insulation	10-13	3/8 86
A8097	2m x 13mm Tube Insulation	12-13	1/2 81
A8098	2m x 13mm Tube Insulation	15-13	5/8 68
A8099	2m x 13mm Tube Insulation	20-13	3/4 49
A8100	2m x 13mm Tube Insulation	22-13	7/8 49
A8101	2m x 13mm Tube Insulation	28-13	1 1/8 39
A8102	2m x 13mm Tube Insulation	35-13	1 3/8 29
A8103	2m x 13mm Tube Insulation	42-13	1 5/8 24
A8104	2m x 13mm Tube Insulation	54-13	2 1/8 17
A8105	2m x 13mm Tube Insulation	67-13	2 5/8 13
A8106	2m x 13mm Tube Insulation	80-13	3 1/8 12

2M Length x 19mm Wall

PART NO.	SIZE	BORE I.D	LENGTHS / CARTON
A8115	2m x 19mm Tube Insulation	10-19	3/8 49
A8116	2m x 19mm Tube Insulation	12-19	1/2 44
A8117	2m x 19mm Tube Insulation	15-19	5/8 39
A8118	2m x 19mm Tube Insulation	20-19	3/4 33
A8119	2m x 19mm Tube Insulation	22-19	7/8 32
A8120	2m x 19mm Tube Insulation	28-19	1 1/8 24
A8121	2m x 19mm Tube Insulation	35-19	1 3/8 18
A8122	2m x 19mm Tube Insulation	42-19	1 5/8 16
A8123	2m x 19mm Tube Insulation	54-19	2 1/8 12
A8124	2m x 19mm Tube Insulation	67-19	2 5/8 9
A8125	2m x 19mm Tube Insulation	80-19	3 1/8 7
A8126	2m x 19mm Tube Insulation	89-19	3 5/8 7

2M Length x 25mm Wall

PART NO.	SIZE	BORE I.D	LENGTHS / CARTON
A8045	2m x 25mm Tube Insulation	15-25	5/8 25
A8046	2m x 25mm Tube Insulation	20-25	3/4 25
A8047	2m x 25mm Tube Insulation	22-25	7/8 21
A8048	2m x 25mm Tube Insulation	28-25	1 1/8 20
A8049	2m x 25mm Tube Insulation	35-25	1 3/8 12
A8050	2m x 25mm Tube Insulation	42-25	1 5/8 11
A8051	2m x 25mm Tube Insulation	54-25	2 1/8 8
A8052	2m x 25mm Tube Insulation	67-25	2 5/8 6
A8053	2m x 25mm Tube Insulation	80-25	3 1/8 5
A8054	2m x 25mm Tube Insulation	89-25	3 5/8 4

9mm Wall

PART NO.	SIZE	BORE I.D
A8030	06-9	1/4
A8031	10-9	3/8
A8032	12-9	1/2
A8033	15-9	5/8
A8034	20-9	3/4
A8035	22-9	7/8
A8036	28-9	1 1/8

13mm Wall

PART NO.	SIZE	BORE I.D
A8037	06-13	1/4
A8038	10-13	3/8
A8039	12-13	1/2
A8040	15-13	5/8
A8041	20-13	3/4
A8042	22-13	7/8
A8043	28-13	1 1/8



Sheet Insulation

2M x 0.5m Sheet (Class B, s3, d0/Class 0)

PART NO.		THICKNESS	LXW (M)
A401	Sheet Insulation	9mm	2 x 0.5
A402	Sheet Insulation	13mm	2 x 0.5
A403	Sheet Insulation	19mm	2 x 0.5
A404	Sheet Insulation	25mm	2 x 0.5

Uniload Insulation

Uniload is 42mm x 19mm insulation cut in half then into 1 meter lengths for fitting over channel. Helps prevent pipe insulation wear and tear when using channel type pipe supports.

PART NO.	SIZE MM	LENGTH M
A8200	42W x 19H	1

Accessories

Adhesive Tape (Class B, s2, d0/Class 0)

PART NO.	DESCRIPTION
A410	10m ROLL
A411	15m ROLL

Adhesive

PART NO.	DESCRIPTION
A415	250ml c/w Brush
A416	500ml Tin
A417	1Litre Tin

Paint

PART NO.	DESCRIPTION
A421	3/4 Litre Grey
A422	3/4 Litre Black
A423	2.5 Litre Black



Section I

Refrigeration oils and cleaning chemicals



Errecom No-Acid – neutralises and eliminates acid present in AC&R systems. Compatible with all types of refrigerant gas and lubricants

PART NO.	DESCRIPTION
M335	Errecom No-Acid for all oil types (Pack of 6 x 12ml syringes)

Rectorseal Acid Away – for use in air conditioning and refrigeration systems that have experienced a burnout or are showing signs of acid build-up

PART NO.	DESCRIPTION
M162	Acid Away for Mineral Oil
M163	Acid Away for POE Oil

Qwik-Shot® Acid Removal System – used for treating acid in air conditioning and refrigeration systems. Works with all refrigerants, oils and filter dryers

PART NO.	DESCRIPTION
M478	Qwik-Shot Acid Removal System (Pack of 4 x 0.5 oz Bottles)
M481	Qwik Injector Liquid Injector for QwikShot 0.5 oz Bottles

SuperSeal™ Advanced – Leak Stop Sealant – easily installed into a fully-charged system with no pump down or recovery. Ideal for older systems where small leaks cannot be easily identified

PART NO.	DESCRIPTION
M190	Super Seal Advanced 1.5 Tons (5 kw)
M191	Super Seal Advanced 1.5 - 5 Tons (5 - 17 kw)
M192	Super Seal Advanced 5+ Tons (17+ kw)

Errecom Extreme – Leak Stop Sealant – designed for the safe repair of small refrigerant gas leaks. 1 x 12 ml syringe is capable of treating a 6kw system with up to 1.8kg of refrigerant making it a cost-effective leak stop solution

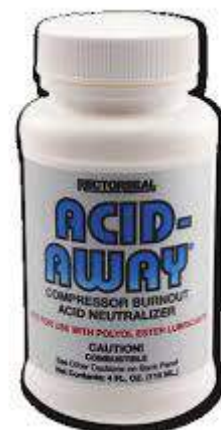
PART NO.	DESCRIPTION
M330	Errecom Extreme (Pack of 6 x 12ml Syringes)

Errecom Super Dry – Anti Moisture Additive – dehydrating additive that prevents the creation of moisture in AC&R systems. 1 x 12ml syringe is capable of treating a 6kw system with up to 1.8kg of refrigerant making it a cost-effective anti-moisture solution

PART NO.	DESCRIPTION
M332	Errecom Super Dry (Pack of 6 x 12ml Syringes)

Errecom Cool-Shot Performance Enhancer – two synthetic catalysts that removes all the old oils coating and insulating the insides of the evaporator and condenser. Improves coil heat transfer by up to 73% and increases cooling capacity by 20-30%. 1 x 12ml syringe is capable of treating a 6kw system with up to 1.8kg of refrigerant

PART NO.	DESCRIPTION
M331	Errecom Cool-Shot (Pack of 6 x 12ml Syringes)



Anti-Corrosive Coil Treatments

Errecom No-Age Protective Coil Coating – treatment designed for all those systems that are exposed to highly oxidising environments (seaside or heavily polluted sites) where salt and acid rain significantly reduce the life of the condenser coil

PART NO.	DESCRIPTION
M244	No-Age Ready-to-Use Trigger Spray (1 Litre)
M245	No-Age Ready-to-Use (5 Litre)

EasyCoat™ Protective Coil Coating – acrylic coating aerosol, designed to guard air cooled coils against corrosive environmental factors such as acid rain, saline atmospheres and airborne ammonia

PART NO.	DESCRIPTION
M485	EasyCoat Protective Coil Coating (500ml Aerosol)

We stock an extensive range of cleaning and specialist chemicals for the refrigeration and air conditioning industry. From Acid and Alkaline based to solvent cleaning chemicals.

Condenser Cleaners

SuperClean™ Heavy Duty Alkaline - Condenser Cleaner

PART NO.	DESCRIPTION
M467	SuperClean Heavy Duty Condenser Cleaner (5 Litre)

Errecom 'Best Acid CC' Condenser Cleaner

PART NO.	DESCRIPTION
M237	Best Acid CC Acid Condenser Cleaner (5 Litre)

HydroFoam® Acid Condenser Cleaner

PART NO.	DESCRIPTION
M464	HydroFoam Alkaline Condenser Cleaner (5 Litre)

RTU® Ready-to-Use Condenser Cleaner

PART NO.	DESCRIPTION
M450	RTU Condenser Cleaner (1 Litre) Trigger Spray Bottle
M456	RTU Condenser Cleaner (5 Litre) Container

Aerosol Condenser Cleaners

PART NO.	DESCRIPTION
M232	Power Clean-Out High Pressure Cond Cleaner Aersol (750ml)
M488	EasyFoam Foaming Aerosol Condenser Cleaner (600ml)

Errecom 'Chisel' Alkaline Condenser Cleaner

PART NO.	DESCRIPTION
M234	Chisel Alkaline Condenser Cleaner (5 Litre)

HydroKleen® Alkaline Condenser Cleaner

PART NO.	DESCRIPTION
M466	HydroKleen Alkaline Condenser Cleaner (5 Litre)



Errecom 'Best' Alkaline Condenser Cleaner

PART NO.	DESCRIPTION
M238	Best Alkaline Condenser Cleaner (1 Litre)

Errecom 'Restore' Alkaline Condenser Cleaner

PART NO.	DESCRIPTION
M233	Restore Alkaline Condenser Cleaner (1 Litre)

Errecom Eco-Restore Alkaline - Condenser Cleaner (Biodegradable)

PART NO.	DESCRIPTION
M231	Eco-Restore Condenser Cleaner (5 Litre)

GreaseGobbler® Solvent Condenser Cleaner

PART NO.	DESCRIPTION
M135	GreaseGobbler Solvent Condenser Cleaner (400 ml)

Condenser Cleaners

HydroCoil® Alkaline Evaporator Cleaner

PART NO.	DESCRIPTION
M462	HydroCoil Alkaline Evaporator Cleaner (5 Litre)

Errecom 'Jab' Evaporator & Plastics Cleaner

PART NO.	DESCRIPTION
M240	Jab Ready-to-Use Evaporator Cleaner (1 Litre)
M235	Jab Evaporator Cleaner (5 Litre Concentrate)

RTU® Ready-to-Use Evaporator Cleaner

PART NO.	DESCRIPTION
M454	RTU Evaporator Cleaner (1 Litre) Trigger Spray Bottle

Errecom 'Clench' Ready-to-Use Evaporator Cleaner

PART NO.	DESCRIPTION
M246	Clench Evaporator Cleaner (1 Litre) Trigger Spray Bottle

Errecom 'Power Clean-In' High Pressure Evaporator Cleaner

PART NO.	DESCRIPTION
M230	Power Clean-in Evaporator Cleaner (600ml Aerosol)

CoolSafe® Evaporator Cleaner

PART NO.	DESCRIPTION
M254	CoolSafe Evaporator Cleaner (5 Litre)



Evaporating Coil Cleaner & Disinfectant

Condencide® Evap Cleaner & Disinfectant

PART NO.	DESCRIPTION
M468	Condencide Alkaline Evaporator Cleaner 5 Litre

Errecom 'Sanibact' Evaporator Cleaner & Disinfectant

PART NO.	DESCRIPTION
M236	Sanibact Evaporator Cleaner & Disinfectant (5 Litre)

EasyCare® Evap Cleaner & Disinfectant

PART NO.	DESCRIPTION
M489	EasyCare Evap Cleaner & Disinfectant Cleaner (500ml Aerosol)

RTU® Evaporator Cleaner & Disinfectant

PART NO.	DESCRIPTION
M452	RTU Evaporator Cleaner & Disinfectant (1 Litre)
M455	RTU Evaporator Cleaner & Disinfectant (5 Litre)

Air Filter Cleaner

Errecom 'Chinook' Air Filter Cleaner

PART NO.	DESCRIPTION
M247	Chinook Air Filter Cleaner Ready-to-Use (1 Litre) Trigger Spray

Universal Evaporator & Condenser Cleaners

Clean-N-Safe® Universal Coil Cleaner

PART NO.	DESCRIPTION
M130	Clean-N-Safe Aerosol (568 grams)
M132	Clean-N-Safe (5 Litre)

EnviroCoil® Universal Coil Cleaner

PART NO.	DESCRIPTION
M460	EnviroCoil Universal Coil Cleaner (5 Litre)

Pro-Universal – Universal Alkaline Coil Cleaner

PART NO.	DESCRIPTION
M447	Pro-Universal Coil Cleaner Granules (480 Grams)
M438	Pro-Universal Coil Cleaner Concentrate (5 Litre)

VerteX® Universal Coil Cleaner

PART NO.	DESCRIPTION
M479	VerteX Universal Coil Cleaner (5 Litre)

Pro-Clean Universal Alkaline Coil Cleaner

PART NO.	DESCRIPTION
M439	Pro-Clean Universal Coil Cleaner (5 Litre)

EasyClean® Universal Coil Cleaner

PART NO.	DESCRIPTION
M487	EasyClean Universal Coil Cleaner (5 Litre)

Condensate Drain Cleaners

Errecom Drizzle – Drain Cleaner

PART NO.	DESCRIPTION
M252	Errecom Drizzle Drain Line Cleaner (1 Litre)

DrainKleen® One Shot

PART NO.	DESCRIPTION
M465	DrainKleen (5 Litre)

HidroX™ Descaler

PART NO.	DESCRIPTION
M465	HidroX (5 Litre)

Ice Machine Cleaners

Errecom SnowPlow – Ice Machine Cleaner

PART NO.	DESCRIPTION
M239	SnowPlow Ready to Use (5 Litre)

HB-30 Ice Machine Cleaner

PART NO.	DESCRIPTION
M469	HB-30 Ice Machine Cleaner Concentrate (5 Litre)

Refrigeration Oils

Suniso Mineral Oil

PART NO.	TYPE	SIZE
M041	Suniso 3GS	4 Litre
M043	Suniso 4GS	4 Litre
M045	Suniso 5GS	4 Litre

Errecom Polyolester Oil (POE)

PART NO.	TYPE	SIZE
M220	Errecom POE-22	5 Litre
M222	Errecom POE-32	1 Litre
M221	Errecom POE-32	5 Litre
M223	Errecom POE-46	5 Litre
M224	Errecom POE-68	5 Litre

Emkarate RL Polyolester Oil (POE)

PART NO.	TYPE	SIZE
M061	Emkarate RL-32H	5 Litre
M064	Emkarate RL-68H	1 Litre

Maneurop Compressors Oil

PT NO.	TYPE	SIZE
400498	Ester Oil for MTZ Compressors	1 Ltr 160 PZ
400499	Ester Oil for MTZ Compressors	2 Ltr 160 PZ
401146	Ester Oil SZ/LTZ/NFZ Compressors	2 Ltr 160 PZ

Mobil Arctic EAL 22CC Polyolester Oil (POE)

PART NO.	TYPE	SIZE
M418	Artic EAL 2CC	5 Litre

Mobil Zerice S46 Synthetic Refrigeration Oil

PART NO.	TYPE	SIZE
M426	Mobil Zerice S46	20 Litre

Reniso C85 C02 Compatible Refrigerant Oil

PART NO.	TYPE	SIZE
M068	Reniso C85	10 Litre

Parker Virginia AB 150 Alkyl Benzene Oil

PART NO.	TYPE	SIZE
M039	Parker Virginia AB150	4 Litres

Vacuum Pump Oil

PART NO.	TYPE	SIZE
Q202	Petronas Vacuum Pump Oil	1 Litre
Q203	Petronas Vacuum Pump Oil	5 Litre

Fuchs – Reniso Triton Series

Fully Synthetic Refrigeration Oils

The Reniso Triton SE/SEX series is suited for most refrigeration circuits, in which chlorine-free HFC/FC refrigerants (e.g. R134a R404A, R410A) are used. Depending on the viscosity, Reniso Triton SE/SEZ refrigeration oils are recommended for hermetic, semi-hermetic, open, screw-type and turbo compressors.

Technical Properties

- Special synthetic polyester
- Excellent solubility with HFC and FC refrigerants
- Good viscosity-temperature suitability
- Good compatibility with elastomers and materials normally used in refrigeration circuits

Advantages and Benefits

- Stable lubrication film even at high temperatures, outstanding lubricity
- Very high thermal and chemical stability in the presence of fluorinated refrigerants
- Good cold-temperature flowability
- Secure oil return from the system, good heat transfer

PRODUCT	ISO VISCOSITY MM ² /S	POUR POINT °C	FLASH POINT °C MG/KG	WATER CONTENT	COLOUR INDEX DIN ISO 2049	SIZES	REFRIGERANTS
RENISO TRITON SE55	55	-51	270	< 50	1.0	1, 5, 20	Chlorine-free HFC/Cs (e.g. R134A, R404A, R410A etc.)
RENISO 170 TRITON SE	173	-24	260	< 50	1.0	1, 10, 205	
RENISO 22 TRITON SEZ	22	-54	240	< 50	0.5	5	
RENISO 32 TRITON SEZ	32	-48	240	< 50	1.0	5	
RENISO 68 TRITON SEZ	68	-45	258	< 50	0.5	1, 5, 10	
RENISO 100 TRITON SEZ	100	-39	288	< 50	1.0	5, 10	



Section J

Fans, fan motors, fan blades,
line valves and access fittings



Fans, Fan motors and Fan Blades

We can supply a wide range of fans and fan units including: Low Pressure Centrifugal fans, Single and Double Inlet Forward Curved Centrifugal fans, Frame Axial fans, High Pressure Centrifugal fans from Axair, Double and Single Inlet fans from Comefri and a range of quality fans from Nicotra. A range of fans and fan motors are also available.

Multi-Fit Fan Motors

PART NO.	MODEL	WATTAGE
K400	MF5	5
K401	MF7	7
K402	MF10	10
K403	MF16	16
K404	MF18	18
K405	MF25	25
K406	MF34	34



Elco Multi-Fit Fan Motors

PART NO.	MODEL	WATTAGE
K580	NET5T05ZVN001	5
K585	NET5T07ZVN001	7
K581	NET5T10ZVN001	10
K586	NET5T16ZVN001	16
K582	NET5T18PVN001	18
K583	NET5T25PVN001	25
K584	NET5T34PVN001	34

Mounting Brackets

PART NO.	TYPE	HEIGHT
K480	71882	52mm
K481	71883	72mm
K482	71884	84mm
K485	718870	109mm

Mounting Rings

PART NO.	TYPE	BLADE Ø
K470	Ring - 154	154mm
K471	Ring - 172	172mm
K472	Ring - 200	200mm
K473	Ring - 230	230mm
K474	Ring - 254	254mm



Fan Blades

One-piece aluminium fan blades to suit most types of motor. For condenser application (air over blade then over motor) use a clockwise (CW) blade with a counter-clockwise motor (CCW). All our Multi-Fit motors are CCW.

Clockwise Blades

PART NO.	ROTATION	BLADE Ø MM	PITCH
K440	CW Blade	154	28°
K441	CW Blade	154	34°
K442	CW Blade	172	28°
K443	CW Blade	172	34°
K444	CW Blade	200	28°
K445	CW Blade	200	34°
K446	CW Blade	230	28°
K447	CW Blade	230	34°
K448	CW Blade	254	28°
K449	CW Blade	254	34°
K450	CW Blade	300	28°
K451	CW Blade	300	34°



Counter Clockwise Blades

PART NO.	ROTATION	BLADE Ø MM	PITCH
K453	CW Blade	154	28°
K454	CW Blade	154	28°
K455	CW Blade	200	28°
K456	CW Blade	200	34°
K457	CW Blade	254	28°
K458	CW Blade	254	34°
K459	CW Blade	300	28°
K460	CW Blade	300	34°



Blade and Bracket Selection Chart

MOTOR	MAXIMUM BLADE	BRACKET
5 WATT	172mm 34°	71882
5 WATT	200mm 28°	71883
10 WATT	230mm 34°	71883
16 WATT	254mm 28°	71884
18 WATT	254mm 34°	71885
25 WATT	300mm 28°	71886
34 WATT	300mm 34°	71887

Fans, Fan Motors, Fan Blades, Line Valves and Access Fittings

PART NO.	ROTATION	Ø MM	PITCH
K430	5W-154	5	154
K431	5W-172	5	172
K432	7W-200	7	200
K433	10W-254	10	254
K434	16W-254	16	254

Tangential Fan Motor Assembly

Single Fan

PART NO.	MODEL	WATT
K150	ETD 6090.15	15
K431	ETD 60120.15	15
K432	ETD 60180.20	20
K433	ETD 60240.30	30
K434	ETD 60300.30	30

Double Fan

PART NO.	MODEL	WATT
K155	ETD 6090.20	20
K156	ETD 60120.20	20
K157	ETD 60180.30	30
K158	ETD 60240.30	30

Tangential Fan Specification

PART NO.	MODEL	LENGTH	AIR DUCT OFF
K150	ETD 6090.15	150mm	35mm x 98mm
K151	ETD 60120.15	180mm	35mm x 128mm
K152	ETD 60180.20	242mm	35mm x 185mm
K153	ETD 60240.30	315mm	35mm x 248mm
K154	ETD 60300.30	375mm	35mm x 308mm
K155	ETC 6090.20	287mm	2 x 35mm x 100mm
K156	ETC 60120.20	347mm	2 x 35mm x 130mm
K157	ETC 60180.30	467mm	2 x 35mm x 190mm
K158	ETC 60240.30	587mm	2 x 35mm x 250mm

Guard Mounted Axial Fan Motors

Listed below are a few of the most popular sizes of Guard Mounted Axial Fans. These motors can be fitted to a wide variety of refrigeration equipment. Please note: the motors listed below are suckers only. The blower versions are available to order in various sizes and voltages, please contact us for details.

Tangential Fan Specification

PART NO.	MODEL	BLADE Ø	SPEED	VOLTAGE
K180	3CFR 60-2-4-300-28	300mm	4 Pole	1ph
K181	3CFR 60-20-4-315-27	315mm	4 Pole	1ph
K182	3CFR 90-30-4-350-0/14	350mm	4 Pole	1ph
K183	3CFR120-40-4-400-22	400mm	4 Pole	1ph
K602	XMFG-4-50-250-30S	250mm	4 Pole	1ph
K607	XMFG-4-85-300-30S	300mm	4 Pole	1ph
K612	XMFG-4-100-330-30S	330mm	4 Pole	1ph
K619	XMFG-4-115-350-30S-3P	350mm	4 Pole	3ph
K617	XMFG-4-126-350-30S	350mm	4 Pole	1ph
K654	XMFG-4-160-400-30S	400mm	4 Pole	1ph
K661	GMA3-450S-1	450mm	4 Pole	3ph
K634	XMFG-4-250-450-30S-3P	450mm	4 Pole	3ph
K640	XMFG-4-380-500-30S	500mm	4 Pole	1ph

Universal Round Fan Motor

PART NO.	TYPE	WATT	ROTATION
K060	GA27R	7	CCW

Supco Open Wound Fan Motor Kits

Supco SM-998 - Evaporator Fan Universal Motor Kit 230 Volt 3000RPM, Rotation (reversible): CW/CCW

Break off 2" Long Motor Shaft with Breakaways at 1/2" and 1/2"

Supco SM-672 - Evaporator Fan Universal Motor Kit 240 Volt, 3000RPM, Rotation (reversible): CW/CCW

Motor Shaft Diameter: 1 1/4" long x 3/16" diameter

PART NO.	MODEL	BLADES
K030	SM-998	No
K032	SM-672	Yes (x 2)

Open Wound Fan Motors, Blades and Bracket

MA-VIB Open Wound Fan Motors Blade

PART NO.	MODEL	ROTATION	OUTPUT WATTS
K098	E1.5A	CCW	1.5
K099	E2A	CCW	2

MA-VIB Open Wound Motor Bracket

PART NO.	DESCRIPTION
K119	Metal Bracket to suit E1.5A & E2A MA-VIB Motors Listed Above

MA-VIB Open Wound Fan Motor Blades

PART NO.	BLADE Ø MM	TO SUIT MODELS
K127	100	E1.5A
K128	130	E1.5A & E2A
K129	154	E2A

Axial Square Frame Fan Motors

PART NO.	SIZE (H X W X D)	CFM	VOLTAGE
K190	80 x 80 x 38	25/30	230V
K191	120 x 120 x 25	64/77	230V
K192	120 x 120 x 38	85/105	230V

Axial Square Frame Motor Power Lead

PART NO.	DESCRIPTION
K169	Power Lead to suit K191 & K192 Motors

Axial Square Frame Motor Fan Guard

PART NO.	DESCRIPTION
K198	120 x 120mm Metal Guard to suit K191 & K192 motors

Remco Fan Motor and Blades

The table below shows details of Remco motors that fit some of the most common makes of evaporators and condensing units in the refrigeration industry.

PART NO.	VOLTAGE	MOTOR	BLADE
ECL 45/65	1PH/3PH	K341/K343	K253
ECL 85	1PH/3PH	K341/K343	K252
ECL 120	1PH/3PH	K341/K343	K254
ECL 180	1PH/3PH	K360/K361	K256
ECL 240	1PH/3PH	K365/K366	K258
ECL 360/720	1PH/3PH	K377/K378	K259
K 45/120	1PH	K341	K251
K 45/120	3PH	K343	K251
K 180/360	1PH	K365	K255
K 180/360	3PH	K366	K255
KM	1PH	K362	-
KM	3PH	K363	-
SR MK1 (Screwed)	1PH	K322	-
SR MK2 (Plain)	1PH	K326	-
SU	1PH	K310	K218
T1, J1 AND J2	1PH	K310	K218
T2-T6, J3 AND J4	1PH	K318	K219
UCL	1PH	K330	K220
KS 10/15/20/25	1PH	K332	-
BC (All Models)	1PH	K332	-
DSR100	1PH	K332	-
DSR116	1PH	K322	-

Prestcold Replacement Motors

PART NO.	VOLTAGE	MOTOR
25 Watt (54713-201)	1PH	K328
AS100/150	1PH	K350
AS375/ASR1500	3PH	K351
AS375/ASR1500	3PH	K379
27131/0134	1PH	K354
27130/0122	3PH	K355

Maneurop Replacement Motor

PART NO.	VOLTAGE	MOTOR
Y, A & B Condensers	1PH	K338

Contardo Replacement Motor

PART NO.	VOLTAGE	MOTOR
G90	1PH	K339

Foster Replacement Motor

PART NO.	VOLTAGE	MOTOR
Higher Speed Motor	1PH	K329



Remco Electric Motors

PART NO.	MODEL	OUTPUT	ROTATION	SHAFT
K300	33-4-5AF-BKT18	5 Watt	CCW	Threaded
K301	33-4-5CF-BKT18	5	CW	Threaded
K302	33-4-7AF-BKT18	7	CCW	Threaded
K310	33-2-7A1	7	CCW	1/2"
K315	33-4-12AF	12	CCW	Threaded
K316	33-4-12CF	12	CW	1/2"
K318	33-4-15A1	15	CCW	5 1/6"
K322	33-4-18AFL	18	CCW	Threaded
K323	33-4-18CFL	18	CW	Threaded
K326	33-4-18A	18	CCW	5 1/6"
K328	33-4-25A3	25	CCW	5 1/6"
K329	33-2-33RF	33	REV	12mm
K330	33-2-35A	35	CCW	5 1/6"
K331	35-2-75AB	75	CCW	1/2"
K332	35-4-70AL	70	CCW	1/2"
K336	35-4-75R1	75	REV	1/2"
K339	48-4-90AG	90	CCW	1/2"
K341	48-4-90AR	90	CCW	1/2"
K343	48-4-90AR-3P	90-3PH	CCW	1/2"
K344	48-4-90-AB-FT	90-1PH	CCW	1/2"
K350	48-4-125A	125-1PH	CCW	1/2"
K351	48-4-125-3P	125-3PH	REV	1/2"
K354	48-6-180AB	180-1PH	CCW	1/2"
K355	48-6-180-3PB	180-3PH	CCW	1/2"
K360	60-4-180RB1P/R	180-1PH	REV	5/8"
K361	55-4-180RB3P/R	180-3PH	REV	5/8"
K362	63-4-200AB	200-1PH	REV	12mm
K363	63-4-2003PB	200-3PH	REV	12mm
K365	60-4-250RB1P/R	250-1PH	REV	5/8"
K366	55-4-250RB3P/R	250-3PH	REV	5/8"
K375	60-4-370RIP/R	370-1PH	REV	1/2"
K377	60-4-550RB1P/R	550-1PH	REV	5/8"
K378	55-4-550RB3P/R	550-3PH	REV	5/8"
K379	60-6-550RB3P/R	550-3PH	REV	5/8"

Shaft Sleeves

To convert plain shafts up to next diameter

PART NO.	TYPE	SIZE
K390	SS 45	1/4 to 5/16
K391	SS 56	5/16 to 3/8
K392	SS 68	3/8 to 1/2
K393	SS 810	1/2 to 5/8

Aluminium Fan Blades

Clockwise Fan Blade with Hub

PART NO.	BLADE Ø INCH	DESCRIPTION*
K218	5 1/2	-4B-32CW-RH-1/4
K219	9	-5B-31 CW-RH-8mm
K220	10	-5B-12-CW-RH-8mm
K221	10	-4B-24-CW-FH-8mm
K222	10	-4B-36-CW-FH-12mm
K223	12	-4B-31-CW-FH-8mm
K224	12	-4B-31-CW-FH-1/2
K225	14	-4B-31-CW-FH-1/2
K226	15	-4B-31-CW-FH-1/2
K227	15	-4B-31-CW-FH-5/8
K228	16	-4B-31-CW-FH-5/8
K229	18	-4B-31-CW-FH-5/8



Counter Clockwise Fan Blade with Hub

PART NO.	BLADE Ø INCH	DESCRIPTION*
K250	12	-4B-31-CCW-RH-8mm
K251	12	-4B-36-CCW-FH-1/2
K252	12	-4B-32-CCW-RH-1/2
K253	12	-4B-40-CCW-RH-1/2
K254	14	-4B-24-CCW-RH-1/2
K255	15	-4B-40-CCW-RH-5/8
K256	15	-4B-32-CCW-RH-5/8
K257	16	-4B-32-CCW-RH-5/8
K258	18	-4B-24-CCW-RH-5/8
K259	22	-4B-16-CCW-RH-5/8

*Description Explanation: Taking the K259 as an example, 22 = Diameter of Blade in inches, 4B = Four Blade, 16 = Pitch of Blades in Degrees, CCW = Counter Clockwise Rotation, RH = Rear Hub, (FH = Front Hub) 5/8 = Hub Bore.

Line Tap Valves

Diversitech DLT Line Taps and Control Valve

PART NO.	MODEL	TO SUIT PIPE (INCH)
P010	DLT-3G	3/16
P011	DLT-4G	1/4
P012	DLT-5G	5/16
P016	DCV-1G	Control Valve

Supco BPV 31 Bullet Piercing Valve

PART NO.	MODEL	TO SUIT
P008	BPV-31	1/4, 5/16, 3/8

Diversitech Quick Tap

PART NO.	MODEL	TO SUIT
P019	QT-1	1/4, 5/16, 3/8

Diversitech Quick Tap 2

PART NO.	MODEL	TO SUIT PIPE (INCH)
P022	QTH-1	1/4, 5/16, 3/8
P023	QTH-2	1/2, 5/8

MAC – The Ultimate Line Piercing Valve

PART NO.	MODEL	TO SUIT
P025	QTM-1	1/4, 5/16, 3/8

Access Fittings

PART NO.	MODEL	DESCRIPTION
P030	VA-3-346	3 way straight solder 3/16, 1/4, 3/8 Schrader valve
P031	VA-34	2 way straight solder 3/16, 1/4 Schrader valve
P032	VA-46	2 way straight solder 1/4 or 3/8 Schrader valve
P037	4048-516	Extended 1/4 copper tube with 5/16 Flare Schrader Valve
P033	SU-03	Extended 3/16 copper tube with 1/4 Flare Schrader Valve
P034	SU-04	Extended 1/4 copper tube with 1/4 Flare Schrader Valve
P035	VAU-24	1/8 MPT x 1/4 Flare Schrader Valve
P036	VAU-45	1/4 MPT x 1/4 Flare Schrader Valve
P038	VUR-4	1/4 Flare x 1/4 Flare Union C/W Flare cap and Schrader
P039	VST-44	1/4 Swivel Tee with Depressor Female 1/4 Swivel Flare Nut with Depressor on run 1/4 Male Schrader Access on Run – Branch 1/4 MFL
P040	VST-4	1/4 Swivel Tee with Depressor 1/4 Male Schrader Access on Run, 1/4 Male Flare on Run 1/4 Female Swivel Flare Nut with Depressor on Branch
P041	VC-4	1/4 Flare Cap
P042	VC-6400	Pack of 10 Spare Schrader Cores

Core Removers

PART NO.	DESCRIPTION
P100	40536 Schrader Core Remover c/w Spare Cores
P105	MV 390 Core Removal Tool



Section K

Cooling units, evaporators and spares,
including defrost heaters and condensers



Cooling units, Evaporators and spares

We can supply a comprehensive range of cold room evaporators to suit many requirements. We are also able to source evaporator spares for all common makes and models.

Our range includes:

Friga-Bohn	ECO
Frimetal	Riva Cold
Gunter	Fincoil (including FSS 3, 4, 5) Lu Ve Cantardo
Helpman (including MLZX)	Hi Air HFS Searle
Walter Roller	
Alfa Laval	

Alfa Laval – Helpman

Fan Motors

PART NO.	POWER (W)	VOLTAGE
30.08.01	30	230/50/1
38.08.15	70	230/50/1
30.08.20	220	230/50/1
30.08.51	30	230/400/50/3
30.08.65	90	230/400/50/3
30.08.70	250	230/400/50/3
30.08.81	370	230/400/50/3

Fan Guards

PART NO.	FAN BLADE DIA MM	MOTOR FLANGE DIA MM
29.15.01	254	85
29.15.02	305	85
29.15.03	406	85
29.15.04	406	115
29.15.05	508	115
29.15.07	356	85
29.15.15	457	115

Fan Blades

PART NO.	DIA MM	PITCH	MOTOR SIZE MM
29.04.05	508	23°	370
29.04.07	508	29°	550
29.04.20	508	32°	180
29.04.54	305	30°	30
29.04.55	356	27°	70/90
29.04.56	406	25°	70/90
29.04.57	457	22°	220/250
29.04.73	508	19°	220/250

We can offer the necessary spares required when repairing coolers, including heaters and fan motors.

We have included commonly-used evaporator spares for the MLZX range – please see index for page numbers. Electrical heaters for coil blocks, drip trays and drip tray lines are also available.

We have included details of the heaters that are readily available – please see index for page numbers.

Whilst the range of units and models is extensive, items such as fan motors are best sourced via the unit manufacturers.

When requesting spares for new evaporators, we always recommend stating the full name plate details from the existing unit to ensure that the correct items are offered.

Heater Elements

PART NO.	RATING	DESCRIPTION
33.03.72	550	2 x STRAIGHT (MLZX06)
33.03.76	708	2 x STRAIGHT (MLZX08)
33.03.78	816	2 x STRAIGHT (MLZX14)
33.03.80	936	2 x STRAIGHT (MLZX16)
33.05.10	640	HAIRPIN
33.05.11	880	HAIRPIN
33.05.13	1000	HAIRPIN
33.05.14	1600	HAIRPIN
33.05.16	815	HAIRPIN (REPLACED BY 33.03.18)
33.05.17	935	HAIRPIN (REPLACED BY 33.03.20)
33.05.18	1390	HAIRPIN (REPLACED BY 33.03.26)
33.05.19	1400	HAIRPIN
33.05.20	1850	HAIRPIN (REPLACED BY 33.03.30)
33.05.21*	3200	HAIRPIN
33.05.22*	3700	STRAIGHT

We can provide a comprehensive range of defrost heaters. When requesting a quotation for a defrost heater, please provide the following information:

- Make and model
- Dimensional drawing/sketch (where possible)
- KW rating
- Voltage

This will enable us to offer the correct heater for your requirements.

Defrost Heaters

These heaters are 230 volt, 50Hz and are supplied straight. They can be bent by hand to the required shape.

All heaters are supplied with cable tails.

PART NO.	LENGTH	WATT
G350	24"	400
G352	36"	500
G353	36"	750
G355	42"	500
G359	48"	750
G363	60"	500
G365	60"	1000
G368	72"	500
G369	72"	1000
G371	84"	500
G372	84"	1000
G375	96"	500
G376	96"	1000
G380	120"	1000
G381	120"	1500
G383	130"	1500



Heater in Series

TP-Heaters for Coil Block Defrosting Element Type TP

TYPE	EFFECT W	VOLTAGE V	INSERTION LENGTH (MM)	ITEM
TP 350	650	230	350	2540 619 401
TP 450	750	230	450	2540 619 402
TP 550	1000	230	550	2540 619 403
TP 650	1000	230	650	2540 619 404
TP 900	1250	230	900	2540 619 405
TP 1400	2000	230	1400	2540 619 407
TP 1600	2000	230	1600	2540 619 408
TP 1750	2000	230	1750	2540 619 409
TP 1850	2000	230	1850	2540 619 410
TP 2100	2500	230	2100	2540 619 411
TP 2250	2500	230	2250	2540 619 412
TP 2500	2500	230	2500	2540 619 413
TP 350	650	400	350	2540 484 701
TP 450	750	400	450	2540 484 702
TP 550	1000	400	550	2540 484 703
TP 650	1000	400	650	2540 484 704
TP 900	1250	400	900	2540 484 705
TP 1400	2000	400	1400	2540 484 707
TP 1600	2000	400	1600	2540 484 708
TP 1750	2000	400	1750	2540 484 709
TP 1850	2000	400	1850	2540 484 710
TP 2100	2500	400	2100	2540 484 711
TP 2250	2500	400	2250	2540 484 712
TP 2500	2500	400	2500	2540 484 713
TP 2750	3000	400	2750	2540 484 714
TP 350	650	440	350	2540 619 501
TP 450	750	440	450	2540 619 502
TP 550	1000	440	550	2540 619 503
TP 650	1000	440	650	2540 619 504
TP 900	1250	440	900	2540 619 505
TP 1400	2000	440	1400	2540 619 507
TP 1600	2000	440	1600	2540 619 508

Flexelec Heater Tapes

CSC2 heaters are designed to be laid inside pipes for draining water from thawing refrigeration equipment installed in cold rooms. The only operate during defrost. Power output: 40 watts per metre. Dimensions: 7mm x 5mm oval cross section.

Fully sealed

PART NO.	LENGTH
L130	1.0 Metre
L131	1.5 Metre
L132	2.0 Metre
L133	3.0 Metre
L134	4.0 Metre
L135	5.0 Metre
L136	6.0 Metre

Flextrace® Self Regulating Heater Tape

PART NO.	DESCRIPTION
L149	Flextrace FSG Plain 15 Watt Plain Heater Tape per metre
L151	Flextrace FSG Plain 25 Watt Plain Heater Tape per metre
L147	Flextrace FSG/TP Black 15 Watt Braided Heater Tape per metre

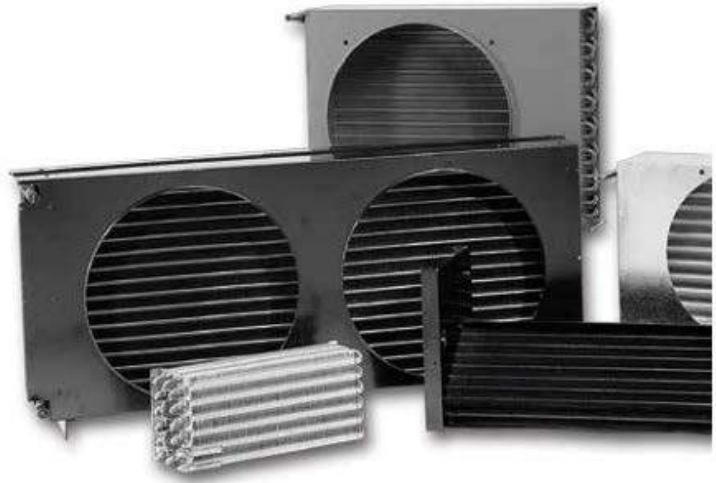
Flexkit® Self Regulating Heater Tape Termination Kits

PART NO.	DESCRIPTION
L150	Flexkit® FS/Kit Single Termination Kit for Plain Heater Tape
L148	Flexkit® FS/Kit-TP Single Termination Kit for Braided Heater Tape

Condensers

These highly efficient air cooled condensers for hermetic compressors are manufactured with staggered copper tubes. Aluminium fins with self-separating collars give 4mm fin spacing.

PART NO.	MODEL
G281	NCF 72
G282	NCF 82
G283	NCF 83
G284	NCF 84
G285	NCF 93
G286	NCF 94
G287	NCF 104
G288	NCF 114
G289	NCF 124
G290	NCF 144
G291	NCF 94D
G292	NCF 104D
G293	NCF 114D
G294	NCF 124D
G295	NCF 144D



Specification:

SINGLE FAN MODELS	NCF 72	NCF 82	NCF 83	NCF 84	NCF 93	NCF 94	NCF 104	NCF 114	NCF 124	NCF 144
No of Tubes	7x2	8x2	8x3	8x4	9x3	9x4	10x4	11x4	12x4	14x4
Capacity*	732	907	1291	1605	1628	2047	2047	3058	3663	4942
Fan Blade Dia.	203	203	203	203	254	254	254	305	305	356
Fan Motor Size	5	5	5	5	10	10	10	16	16	35
Volume Cu m/hr	650	650	650	650	590	850	850	1400	1400	1900
Height (mm)	235	235	235	235	275	275	275	325	350	400
Width (mm)	270	290	290	290	320	320	320	380	410	470
Depth (mm)	107	107	137	167	137	167	167	167	167	167

DOUBLE FAN MODELS	NCF 94D	NCF 104D	NCF 114D	NCF 124D	NCF 144D
No of Tubes	9x4	10x4	11x4	12x4	14x4
Capacity*	4093	5024	6117	7327	9885
Fan Blade Dia.	2x254	2x254	2x305	2x305	2x356
Fan Motor Size	2x10	2x10	2x16	2x16	2x35
Volume Cu m/hr	1700	1700	2800	2800	3800
Height (mm)	275	290	235	350	400
Width (mm)	590	650	710	770	890
Depth (mm)	167	167	167	167	167

The Capacity is the total heat of rejection in watts at 15°KTD. Compressor duty will need to be corrected to obtain the Total Heat Rejection.

Bitzer Shell and Tube Condensers

PART NUMBER	DESCRIPTION
K033N	Shell and Tube Condenser (fresh water cooled)
K033H	Shell and Tube Condenser (fresh water cooled)
K073H	Shell and Tube Condenser (fresh water cooled)
K123H	Shell and Tube Condenser (fresh water cooled)
K203H	Shell and Tube Condenser (fresh water cooled)
K283H	Shell and Tube Condenser (fresh water cooled)
K373H	Shell and Tube Condenser (fresh water cooled)
K573H	Shell and Tube Condenser (fresh water cooled)
K813H	Shell and Tube Condenser (fresh water cooled)
K813H	Shell and Tube Condenser (fresh water cooled)
K1053H	Shell and Tube Condenser (fresh water cooled)
K1353T	Shell and Tube Condenser (fresh water cooled)
K1973T	Shell and Tube Condenser (fresh water cooled)
K2923T	Shell and Tube Condenser (fresh water cooled)
K3803T	Shell and Tube Condenser (fresh water cooled)
K4803T	Shell and Tube Condenser (fresh water cooled)

*Please advise whether 2 or 4 pass is required

PART NUMBER	DESCRIPTION
K033NB	Shell and Tube Condenser (sea water cooled)
K033HB	Shell and Tube Condenser (sea water cooled)
K073HB	Shell and Tube Condenser (sea water cooled)
K123HB	Shell and Tube Condenser (sea water cooled)
K203HB	Shell and Tube Condenser (sea water cooled)
K283HB	Shell and Tube Condenser (sea water cooled)
K373HB	Shell and Tube Condenser (sea water cooled)
K573HB	Shell and Tube Condenser (sea water cooled)
K813HB	Shell and Tube Condenser (sea water cooled)
K1053HB	Shell and Tube Condenser (sea water cooled)
K1353TB	Shell and Tube Condenser (sea water cooled)
K1973TB	Shell and Tube Condenser (sea water cooled)
K2923TB	Shell and Tube Condenser (sea water cooled)
K3803TB	Shell and Tube Condenser (sea water cooled)
K4803TB	Shell and Tube Condenser (sea water cooled)

*Please advise whether 2 or 4 pass is required

Standard Design

2 PASS TYPE	CAPACITY	CAPACITY	MAX FLOW	PRESSURE DROP	4 PASS CAPACITY	CAPACITY	MAX FLOW	PRESSURE DROP		
K033N	8000	5330	0,38	1,37	0,11	6900	4600	0,19	0,68	0,22
K073H	15300	10200	0,76	2,74	0,11	13200	8800	0,38	1,37	0,22
K123H	21400	14270	0,76	2,74	0,15	17200	11500	0,38	1,37	0,28
K203H	36100	24100	1,78	6,41	0,33	30800	20500	0,89	3,20	0,64
K283H	51100	34100	2,38	8,56	0,33	43600	29100	1,19	4,28	0,64
K373H	77700	51800	2,98	10,71	0,40	63500	42300	1,49	5,35	0,78
K573H	124800	83200	5,09	18,32	0,30	100200	66800	2,31	8,33	0,59
K813H	157100	104700	6,48	23,32	0,30	131100	87400	3,24	11,66	0,58
K1053H	204600	136400	6,48	23,32	0,38	161300	107500	3,24	11,66	0,74
K1353T	262200	174800	8,33	30,00	0,38	206900	138000	4,17	15,00	0,74
K1973T	377400	251600	12,03	43,32	0,38	298300	198900	6,02	21,66	0,74
K2923T	540800	360500	17,56	63,22	0,38	426800	284500	8,78	31,61	0,74
K3803T	713400	475600	23,17	83,40	0,38	562900	375300	11,58	41,70	0,74
K4803T	913200	608800	29,64	106,70	0,39	720500	480300	14,83	53,40	0,75

Seawater Resistant Design

2 PASS TYPE	CAPACITY	CAPACITY	MAX FLOW	PRESSURE DROP	4 PASS CAPACITY	CAPACITY	MAX FLOW	PRESSURE DROP		
K033NB	6600	4450	0,38	1,38	0,10	5700	3900	0,19	0,69	0,22
K073HB	13200	8900	0,76	2,75	0,11	11500	7700	0,38	1,38	0,22
K123HB	18600	12300	0,76	2,75	0,14	15000	10000	0,38	1,37	0,28
K203HB	31400	21100	1,78	6,42	0,32	27100	18200	0,89	3,21	0,64
K283HB	44700	29700	2,38	8,56	0,32	37900	25500	1,89	4,28	0,64
K373HB	67100	45600	2,97	10,71	0,39	55000	37300	1,49	5,35	0,78
K573HB	107300	71550	5,09	18,32	0,30	86200	57500	2,31	8,33	0,59
K813HB	130700	87700	6,48	23,34	0,29	110100	74000	3,24	11,66	0,58
K1053HB	176000	117000	6,48	23,34	0,37	136800	91200	3,24	11,66	0,74
K1353TB	221000	150000	8,33	30,00	0,37	175500	117900	4,17	15,00	0,74
K1973TB	321700	215000	12,04	43,33	0,37	255000	170300	6,02	21,66	0,74
K2923TB	452400	304500	17,56	63,22	0,37	361000	241000	8,78	31,61	0,74
K3803TB	596000	402000	23,17	83,40	0,37	484000	322700	11,58	41,70	0,74
K4803TB	780000	524000	29,67	106,80	0,37	621000	416400	14,83	53,40	0,75



Section L

Refrigeration tools including brazing equipment



Refrigeration Tools Including Brazing Equipment

Refco Manifold Kits 2-Way

PART NO.	DESCRIPTION
Q340	REFCO BM2-6-DS-R410A 2-Way Manifold Kit, 60mm Ø gauges Reads: psi / bar / °C. Sight glass. 3 x 36" R/Y/B hoses with 1/4" on all hose ends. Reads: R410A
Q342	REFCO BM2-6-DS-R22, Multi Refrigerant 2-Way Manifold Kit, 60mm Ø gauges Reads: psi / bar / °C. Sight glass. 3 x 36" R/Y/B hoses with 1/4" on all hose ends. Reads: R22 / R134a / R404A
Q343	REFCO BM2-6-DS-R407C, Multi Refrigerant 2-Way Manifold, 60mm Ø gauges Reads: psi / bar / °C. Sight glass. 3 x 36" R/Y/B hoses with 1/4" on all hose ends. Reads: R407C / R404A / R134A
Q344	REFCO BM2-6-DS-CLIM Multi Refrigerant 2-Way Manifold Kit, 60mm Ø gauges Reads: psi / bar / °C. Sight glass. 3 x 36" R/Y/B hoses with 1/4" on all hose ends. Reads: R22 / R407C / R410A

CPS® Vortech™ Manifold Kits

PART NO.	DESCRIPTION
Q231	CPS 2-Way Manifold (MV2JS3C) complete with sight glass, 80mm Ø Gauges. Reads: bar / psi / °C. Supplied with 3 x 36" 1/4" R/Y/B Hoses and Foam Filled Carry Case Reads: R22, R134a, R404A, R407C
Q233	CPS 4-Way Manifold (MV4JS5C) complete with sight glass, 80mm Ø Gauges. Reads: bar / psi / °C. Supplied with 3 x 60" 1/4" R/Y/B Hoses and Foam Filled Carry Case Reads: R22, R134a, R404A, R407C
Q229	CPS 4-Way Manifold (MV12AJ5EC) complete with sight glass, 80mm Ø Gauges. Reads: bar / psi / °C. Supplied with 3 x 60" 5/16" R/Y/B Ball Valve Hoses, 1 x Black 3/8" Vacuum Hose. Foam Filled Carry Case. Reads: R410A

Titan® 4-Way Test & Charge Manifold

PART NO.	DESCRIPTION
Q1098	Yellow Jacket 49972 Titan 4-Way Charge & Test Manifold



Value VTB Integrated Tool Kit

PART NO.	DESCRIPTION
Q047	VTB-5B-I-R410A Tool Kit with R410A Manifold
QV1044	VTB-5B-I-R22 Tool Kit with Multi Manifold, R22, R134a, R407C and R404A

Value VDG-1 Digital Manifold (2-Way)

PART NO.	DESCRIPTION
Q097	Value VDG-1, 2 Way Digital Manifold

Value VDG-4-S1 Digital Manifold (4-Way)

PART NO.	DESCRIPTION
QV1035	VDG-4S1, 4-Way Digital Manifold



Testo 550 Digital Manifold 2-Way with Bluetooth

PART NO.	DESCRIPTION
QT010	Testo 550 2-Way Digital Manifold with Bluetooth



CO2 Leak Detectors

PART NO.	DESCRIPTION
Q3440	D-TEK CO2 (Rechargeable) Leak Detector
Q1113	Y/Jacket 69396 CO2 (Battery Operated) Leak Detector

Yellow Jacket Single Charging Hose:

1/4" x 1/4" SAE x 3ft Long, Single Hose

PART NO.	MODEL	COLOUR
Q1090	21236	Blue
Q1092	21636	Red
Q1088	21036	Yellow

1/4" x 1/4" SAE x 6ft Long, Single Hose

PART NO.	MODEL	COLOUR
Q1091	21272	Blue
Q1093	21672	Red
Q1089	21072	Yellow

1/4" x 5/16" SAE x 3ft Long, Single Hose

PART NO.	MODEL	COLOUR
Q1084	21423	Blue
Q1093	21672	Red
Q1085	21463	Red

1/4" x 5/16" SAE x 6ft Long, Single Hose

PART NO.	MODEL	COLOUR
Q1087	21426	Blue
Q1086	21466	Red



Yellow Jacket Hose Sets (3 Pack):

1/4" x 1/4" or 1/4" x 5/16" SAE, Pack of 3 Hoses

PART NO.	MODEL	COLOUR
Q1035	21983	3 PK Red-Yellow-Blue 1/4" x 1/4" Hose Set (3ft)
Q1046	21486	3 PK Red-Yellow-Blue 5/16" Hose Set (6ft) Red & Blue Hose 1/4" x 5/16" Yellow Hose 1/4" x 1/4"

1/4" x 1/4" or 1/4" x 5/16" SAE, Pack of 3 Hoses with Ball Valves

PART NO.	MODEL	COLOUR
Q1096	29985	3 PK Red-Yellow-Blue 1/4" x 1/4" Hose Set (5ft) (Complete with compact ball valves)
Q1025	29986	3 PK Red-Yellow-Blue 1/4" x 1/4" Hose Set (6ft) (Complete with compact ball valves)
Q1026	29485	3 PK Red-Yellow-Blue Hose Set (5ft) Red & Blue Hose 1/4" x 5/16" Yellow Hose 1/4" x 1/4" (Complete with compact ball valves)

Yellow Jacket 3/8 Vacuum Hose Single:

3/8" x 3/8" SAE x 6ft Long, Single Vacuum Hose

PART NO.	MODEL	COLOUR
Q1032	18172	Yellow

Value® Single Charging Hose:

1/4" x 1/4" SAE x 4ft Long, Single Hose

PART NO.	MODEL	COLOUR
Q223	VRP-48-B	Blue
Q222	VRP-48-R	Red
Q224	VRP-48-Y	Yellow

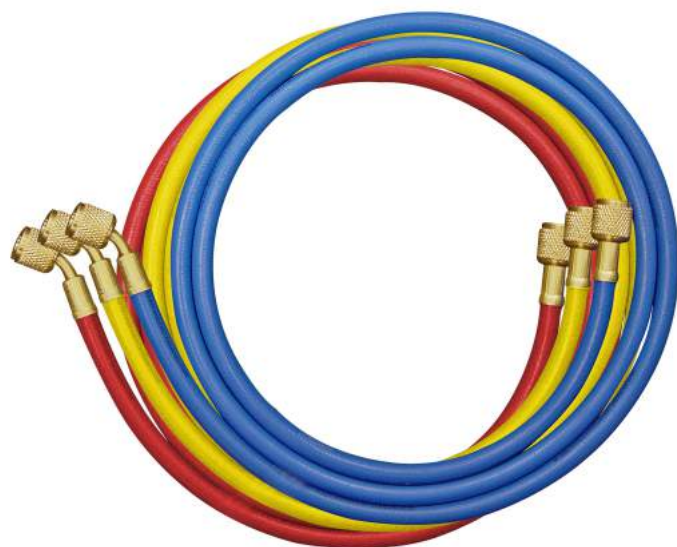
Mastercool Single Charging Hose:

1/4" x 1/4" SAE x 3ft Long, Single Hose

PART NO.	MODEL	COLOUR
Q365	36-4-B	Blue
Q366	36-4-R	Red
Q367	36-4-Y	Yellow

1/4" x 1/4" SAE x 6ft Long, Single Mastercool Hose

PART NO.	MODEL	COLOUR
Q368	72-4-B	Blue
Q369	72-4-Y	Red
Q370	72-4-R	Yellow



Mastercool Charging Hose Sets (3PK):

Set of 3 x 3ft x 1/4" SAE Hoses

PART NO.	MODEL	COLOUR
Q374	Set 36-4	Red-Yellow-Blue

Set of 3 x 3ft x 1/4" SAE Hoses

PART NO.	MODEL	COLOUR
Q375	Set 72-4	Red-Yellow-Blue

CPS Replacement Charging Hose Set (3PK)

PART NO.	MODEL	DESCRIPTION
Q394	HJ5	3 PK Red-Yellow-Blue 5/16 Hose Set (5ft Long)

Yellow Jacket Automotive AC Quick Couplers

PART NO.	MODEL	DESCRIPTION
Q1001	41338	Low Side Coupler (Blue)
Q1000	41337	High Side Coupler (Red)

PROEX Automotive AC Quick Couplers

PART NO.	MODEL	DESCRIPTION
Q520	254-A	Low Side Coupler (Blue)
Q521	253-A	High Side Coupler (Red)

Refco Single Charging Hose:

1/4" x 1/4" SAE x 3ft Long, Single Hose

PART NO.	MODEL	COLOUR
Q751	9881253	Blue
Q752	9881262	Red
Q753	9881271	Yellow

1/4" x 1/4" SAE x 6ft Long, Single Hose

PART NO.	MODEL	COLOUR
Q754	9881250	Blue
Q755	9881259	Red
Q756	9881268	Yellow

1/4" x 5/16" SAE x 3FT Long, Single Hose

PART NO.	MODEL	COLOUR
Q757	9884076	Blue
Q758	9884077	Red

1/4" x 5/16" SAE x 5ft Long, Single Hose

PART NO.	MODEL	COLOUR
Q759	9844621	Blue
Q760	9884622	Red

3/8" x 3/8" SAE x 6ft Long Yellow Vacuum Hose

PART NO.	MODEL	COLOUR
Q305	9881312	Yellow 3/8" Vacuum Hose

Refco Charging Hose Set:

1/4" x 1/4" SAE x 3ft Long Hose Set (Pack 3)

PART NO.	MODEL	COLOUR
Q761	9881278	Red-Yellow-Blue

1/4" x 1/4" SAE x 6ft Long Hose Set (Pack 3)

PART NO.	MODEL	COLOUR
Q762	9881275	Red-Yellow-Blue

Refco Charging Hose Set with Ball Valves:

1/4" x 1/4" SAE x 6ft Hose Set (Pack 3) with Ball Valves

PART NO.	MODEL	COLOUR
Q748	4493631	Red-Yellow-Blue

1/4" x 1/4" SAE x 6ft Hose Set (Pack 3) with Extended Ball Valves

PART NO.	MODEL	COLOUR
Q763	4675521	Red-Yellow-Blue

1/4" x 5/16" SAE x 5ft Hose Set (Pack 3) with Extended Ball Valves

PART NO.	MODEL	COLOUR
Q749	4666522	Red-Yellow-Blue

Refco Extra Long Single Charging Hose:

1/4" SAE x 10ft Long, Single Refco Hose

PART NO.	MODEL	COLOUR
Q371	120-4-B	Blue
Q372	120-4-R	Red
Q373	120-4Y	Yellow

Heavy Duty Lines c/w Ball Valve:

1/4" x 3ft

PART NO.	MODEL	COLOUR
Q382	HD-36-4-B-V	Black Hose with Blue End
Q383	HD-36-4-R-V	Black Hose with Red End
Q384	HD-36-4-Y-V	Black Hose with Yellow End

1/4" x 5ft

PART NO.	MODEL	COLOUR
Q388	HD-60-4-B-V	Black Hose with Blue End
Q389	HD-60-4-R-V	Black Hose with Red End
Q393	HD-60-4-Y-V	Black Hose with Yellow End

1/4" x 6ft

PART NO.	MODEL	COLOUR
Q391	HD-72-4-B-V	Black Hose with Blue End
Q392	HD-72-4-R-V	Black Hose with Red End
Q393	HD-72-4-Y-V	Black Hose with Yellow End

3/8" x 3ft Vacuum Hose

PART NO.	MODEL	COLOUR
Q385	HD-36-6-B-V	Black Hose with Yellow End

Imperial® & Refco Quick Couplers:**Hose Shut-Off Adapters**

PART NO.	DESCRIPTION	IMAGE NO.
Q5200	Imperial 16-C Straight Kwik Coupler 1/4" Male x 1/4" Female	1
Q5202	Imperial 17-C Elbow Kwik Coupler 1/4" Male x 1/4" Female	2
Q518	Imperial 26-C Straight Kwik Coupler 5/16" Male x 5/16" Female	1
Q5206	Imperial 27-C Elbow Kwik Coupler 5/16" Male x 5/16" Female	2
Q386	Refco Straight Quick Coupler 1/4" Male x 5/16" Female	3
Q387	Refco Elbow Quick Coupler 1/4" Male x 5/16" Female	4

Hose Adaptors

PART NO.	DESCRIPTION
Q380	Robinair "Quick Seal" Automatically shuts off the charging hose when you disconnect it from the system, so any refrigerant left in the hose is not released. This also prevents "finger burn" and adds an extra measure of safety. 1/4" MFL to 1/4" FFL.
Q381	R410A Flare Adaptor Converts 1/4" Hose to 5/16" FFL for use with R410A Systems
Q377	R410A Flare Adaptor 1/4" FFL to 5/16" MFL

Gauge Line Ball Valve Set

PART NO.	DESCRIPTION
Q339	Set of 3 R/Y/B - 1/4 Turn Ball Valves (1/4 MFL x 1/4 FFL)

Replacement Manifold Gauges

PART NO.	DESCRIPTION
Q265	63mm Ø Low Side Gauge. Reads: R22/R134a Pressure: -1 to 17 Bar / °C
Q267	63mm Ø High Side Gauge. Reads: R22/R134a Pressure: 0 to 34 Bar / °C
Q362	ITE 80mm Ø Low Side Gauge. Reads: R134a/R404A/R407C/R507 Pressure: -1 to 8 Bar / °C
Q363	ITE 80mm Ø High Side Gauge. Reads: R134a/R404A/R407C/R507 Pressure: 0 to 31 Bar / °C
Q227	CPS 80mm Ø Low Side Gauge. Reads: R22/R404A/R134a/R407C Pressure: -1 to 17 Bar / PSI / °C
Q228	CPS 80mm Ø High Side Gauge. Reads: R22/R404A/R134a/R407C Pressure: -1 to 34 Bar / PSI / °C
QV1055	Value 80mm Ø Low Side Gauge. Reads: R410A Pressure: -1 to 20 Bar / PSI / °C
QV1054	Value 80mm Ø High Side Gauge. Reads: R410A Pressure: 0 to 55 Bar / PSI / °C
QV1059	Value 80mm Ø Low Side Gauge. Reads: R134a/R404A/R407C/R22 Pressure: 30 inHg to 145 PSI / °C
QV1058	Value 80mm Ø High Side Gauge. Reads: R134a/R404A/R407C/R22 Pressure: 0 to 450 PSI / °C

Value® Manifold Spare Parts

Manifold Knobs for 2 & 4 Way Manifolds

PART NO.	DESCRIPTION
QV1050	Red High Side Manifold Knob fits all Value 2 & 4 Way Manifolds
QV1051	Blue Low Side Manifold Knob fits all Value 2 & 4 Way Manifolds
QV1053	Yellow Manifold Knobs fits all Value 4 Way Manifolds

Brass Valve Assembly (Complete) 2 & 4 Way Manifolds

PART NO.	DESCRIPTION
QV1066	Complete Brass Valve Stem Assembly suits all 2 Way Manifolds, but fits side only of all 4 Way Manifolds
QV1067	Complete Brass Valve Stem Assembly for front of 4 Way Manifolds only

Replacement Hose Gaskets (supplied individually)

PART NO.	DESCRIPTION
QV1056	Black Rubber Hose Seal for either end of Value R/Y/B Hoses
QV1057	White Teflon Hose Seal for Either end of Value R/Y/B Hoses

Value® Recovery Machines

PART NO.	DESCRIPTION
Q503	Value VRR12L, 3/4 HP Single Cylinder Recovery Machine. 230V. Recovers 15kg Vapour & 111kgs of Liquid per/hr. Recovers all commonly used CFC, HFC & HCFC refrigerants
Q517	Value VRR12L, 3/4 HP Single Cylinder Recovery Machine. 110V. Recovers 15kg Vapour & 111kgs of Liquid per/hr. Recovers all commonly used CFC, HFC & HCFC refrigerants
Q516	Value VRR24L, 1 HP Twin Cylinder Recovery Machine. 230V. Recovers 24kg Vapour & 222kgs of Liquid per/hr. Recovers all commonly used CFC, HFC & HCFC refrigerants
Q285	Value VRR24L, 1 HP Twin Cylinder Recovery Machine. 110V. Recovers 24kg Vapour & 222kgs of Liquid per/hr. Recovers all commonly used CFC, HFC & HCFC refrigerants
QV1111	Value VRR24M-R32, 1 HP Twin Cylinder Recovery Machine. 230V. Recovers 30kg Vapour & 231kgs of Liquid per/hr. Recovers all commonly used CFC, HFC & HCFC refrigerants, plus it's A2L Compatible for Mildly Flammable Refrigerants like R32 & R1324yf
QV1110	Value VRR24M-R32, 1 HP Twin Cylinder Recovery Machine. 110V. Recovers 30kg Vapour & 231kgs of Liquid per/hr. Recovers all commonly used CFC, HFC & HCFC refrigerants, plus it's A2L Compatible for Mildly Flammable Refrigerants like R32 & R1324yf

Value® Recovery Machines

PART NO.	DESCRIPTION
Q507	Promax RG3000, Recovery Machine. 240V. Recovers 8kg Vapour & 58kgs of Liquid per/hr. Recovers all commonly used CFC, HFC & HCFC refrigerants*
Q506	Promax RG3000, Recovery Machine. 110V. Recovers 8kg Vapour & 58kgs of Liquid per/hr. Recovers all commonly used CFC, HFC & HCFC refrigerants*
Q500	Promax MiniMax, Recovery Machine. 240V. Recovers 9kg Vapour & 90kgs of Liquid per/hr. Recovers all commonly used CFC, HFC & HCFC refrigerants*
Q501	Promax MiniMax, Recovery Machine. 110V. Recovers 9kg Vapour & 90kgs of Liquid per/hr. Recovers all commonly used CFC, HFC & HCFC refrigerants*
Q1498	Promax RG-6, Twin Cylinder Recovery Machine. 240V. Recovers 9.6kg Vapour & 165 kgs of Liquid per/hr. Recovers all commonly used CFC, HFC & HCFC refrigerants, Plus it's A2L Compatible for Mildly Flammable Refrigerants like R32 & R1324yf
Q1499	Promax RG-6, Twin Cylinder Recovery Machine. 110V. Recovers 9.6kg Vapour & 165 kgs of Liquid per/hr. Recovers all commonly used CFC, HFC & HCFC refrigerants, Plus it's A2L Compatible for Mildly Flammable Refrigerants like R32 & R1324yf

Please Note: None of the above recovery machines listed on this page are suitable for recovering hydrocarbons, even the A2L compatible recovery machines.

JAVAC XTR-PRO Dual Voltage Recovery Machine

PART NO.	DESCRIPTION
Q1506	Javac XTR-PRO Dual Voltage Recovery Machine (110/240V)

Caresaver Hydrocarbon Recovery Machine & Care-Air Fan Module

PART NO.	DESCRIPTION
Q590	Caresaver Universal 230v - HC Recovery Machine
Q591	Caresaver Universal 110v - HC Recovery Machine
Q592	Care-Air Fan 230v
Q593	Care-Air Fan 110v

Electric Charging Scales

PART NO.	DESCRIPTION
Q287	Value VES-100A Electronic Charging Scales. 100kg Max Capacity, Audible Buzzer. Battery Operated (Removable Platform)
Q284	Value VES-100B Auto Shut-Off Electronic Charging Scales. When charge/recover weight is reached the internal valve closes stopping refrigerant flow. 100kg Max Capacity. Audible Buzzer. Battery and 240V mains operated. (Platform not removable)
Q286	ITE WS-150 Electronic Charging Scales, 150kg Maximum Capacity. Audible Buzzer. Battery and 240V mains operated. Removable platform with level sight glass & adjustable feet. Approx 60 hours battery life.
Q290	Mastercool Acu-Charge II, Electronic Charging Scale. 110kg Maximum Capacity. Removable platform with level sight glass and adjustable feet. 40hrs battery life.
Q282	Javac Wey-TEK HD Wireless Charging Scale. Operates via Free App you download to your smartphone. 115kg Maximum capacity, Audible buzzer. Removable platform. Bluetooth transmission range approx 30ft. Plastic Case & 4 x AA batteries included.

Robinair® CoolTech Vacuum Pumps

PART NO.	MODEL	CFM	SUPPLY
Q247	15401	4.0	110/230v
Q248	15601	6.0	110/230v
Q249	15121A	10.0	110/230v

Vacuum Gauges

PART NO.	DESCRIPTION
Q276	Javac CR2-40 Absolute Torr Gauge, 100mm Ø 1/4" MFL Connection. Range: 0 - 40 Torr & 0 - 50 mbar. Stainless steel construction.
Q279	Supco VG-64 Digital Vacuum Gauge. Reads vacuum in 7 units: Microns, psi, inHg, mbar, Pascal, Torr & mTorr. Overpressure protected to 300psi, Fold out and magnetic hanging hook. Cleaning port for sensor cleaning. 1/4" MFL Connection. Back lit display.
Q197	Refco REF-VAC Digital Vacuum Gauge. Reads vacuum in 7 units: Microns, mbar, Pascal, Torr, mTorr, psi and inHg. Foldaway hanging hook. Max over pressure 30 bar, 1/4" MFL Connection. Back lit display.
QT002	Testo 552 Bluetooth Digital Vacuum Gauge for evacuation of refrigeration systems and heat pumps. Now with Bluetooth connection for wireless monitoring of measurement results via the Testo Smart Probes App. Reads vacuum in 8 units: mmHg, Torr, mbar, hPa, micron, inH2O & Pa. Sensor max overload 6 bar/87 psi. Back lit display.

Vacuum Pump Oil

PART NO.	SIZE
Q202	1 Litre
Q203	5 Litre



Value® Manifold Spare Parts

Manifold Knobs for 2 & 4 Way Manifolds

PART NO.	DESCRIPTION
Q221	Value VCM-202 Digital Clamp Meter with Temperature

Value® VCM-202 Digital Clamp Meter

PART NO.	DESCRIPTION
Q256	Tenmars TM-16E Digital Clamp Meter

Tenmars® TM-1016 Digital Clamp Meter

PART NO.	DESCRIPTION
Q255	Tenmars TM-1016 Digital Clamp Meter with Temperature

Testo 770-1 Digital TRMS Clamp Meter

PART NO.	DESCRIPTION
QT005	Testo 770-1 Digital TRMS Clamp Meter

Testo 770-3 Digital TRMS Clamp Meter

PART NO.	DESCRIPTION
QT025	Testo 770-3 Digital Clamp Meter with Bluetooth & uF

Value®VDM-151 Digital Multi-meter

PART NO.	DESCRIPTION
Q220	Value VDM-151 Digital Multi-meter with Temp and uF

Sagab Elma 918 Digital Multi-meter

PART NO.	DESCRIPTION
Q746	Elma 918 True RMS Digital Multimeter

Testo 760 Multi-meters

PART NO.	DESCRIPTION
QT006	Testo 760-1 Digital Multimeter (0 to 100 uF)
QT026	Testo 760-3 TRMS Digital Multimeter

Testo 750 Voltage Testers

PART NO.	DESCRIPTION
QT030	Testo 750-1 Voltage tester
QT031	Testo 750-3 Voltage Tester with LCD Screen

Non-Contact Voltage Testers

PART NO.	DESCRIPTION
Q745	Sagab Volt Stick 230Y N/Contact Voltage Tester 220/230V AC
QT031 T	esto 745 Non-Contact Voltage Tester 12 to 1000 V AC

Non-Contact Voltage Testers

PART NO.	DESCRIPTION
Q251	Supco MFD-10 Capacitor Tester

EDC Inverter Phase Checker

PART NO.	DESCRIPTION
Q198	EDC Inverter Phase Checker
Q194	Inverter Crocodile Clamp Test Leads

Thermometers:

ETI HVAC Thermometer Kit-1

PART NO.	DESCRIPTION
N293	HVAC Thermometer Kit-1 with Probes & Case

ETI HVAC Thermometer Kit-2

PART NO.	DESCRIPTION
Q417	HVAC Thermometer Kit-2 with Probes & Case

ETI TN-2 Infrared Pocket Thermometer

PART NO.	DESCRIPTION
Q877	ETI 814-060 Infrared Pocket Thermometer

Comark KM340 Thermometer Kit

PART NO.	DESCRIPTION
N330	Comark KM340 Thermometer Kit with 2 Probes and Carry Case

Replacement K-Type ETI Thermometer Probes

PART NO.	DESCRIPTION
N325	ETI 123-000 K-Type Surface Probe
N326	ETI 123-160 Type Penetration Probe
V910	ETI 123-300 K-Type Air Probe
N329	ETI 133-080 K-Type Velcro Pipe Probe

PROEX Digital Thermometer

PART NO.	DESCRIPTION
Q875	PROEX RT-905A Digital Hand Held & Pocket Thermometer

Proex DGT-1415 Pocket Thermometer

PART NO.	DESCRIPTION
Q876	PROEX DGT-1415 Digital Pen Pocket Thermometer

Cabinet & Coldroom Thermometers:

ITE SP-120 Solar Powered Thermometers

PART NO.	DESCRIPTION
Q874	ITE SP-120 Solar Powered Digital Thermometer

PROEX DT-100 Solar Powered Thermometer

PART NO.	DESCRIPTION
Q872	PROEX DT-1001-S Solar Powered Thermometer

ETI Fridge or Freezer Alarm Thermometer

PART NO.	DESCRIPTION
Q416	ETI Digital Fridge Freezer Alarm Thermometer

Fridge Freezer Cabinet Thermometer

PART NO.	DESCRIPTION
Q869	Proex RT-221 Fridge Freezer Cabinet Thermometer

Flaring Tools

PART NO.	MODEL	DESCRIPTION
Q015	195-FC	Imperial® Flare Tool for 3/16, 1/4, 5/16, 3/8, 7/16, 1/2 and 5/8 O.D. Tubing.
Q016	500-FC	Imperial® Rol-Air Flaring Tool 3/16, 1/4, 5/16, 3/8, 1/2 and 5/8 O.D. Tubing.
Q018	375-FS	Imperial® Large Flare Tool for 1/8, 3/16, 1/4, 5/16, 3/8, 7/16, 1/2, 5/8 and 3/4
Q020	275-FS	Imperial® Flaring and Swage Tool Kit: Flares 1/8, 3/16, 1/4, 5/16, 3/8, 7/16, 1/2, 5/8 and 3/4 & Swages 3/16, 1/4, 5/16, 3/8, 1/2, 5/8 and 3/4 Tube supplied in sturdy tool case
Q022	FTE-800S	ITE Standard Eccentric Flare Tool included carry case (not shown) for pipe sizes 1/8, 3/16, 1/4, 5/16, 3/8, 1/2, 5/8, and 3/4 includes adaptor to speed up flaring, use with cordless drill or ratchet spanner (not included)
Q023	FTE800F	ITE Full Eccentric Flare Tool Kit includes the Flare kit and drill adaptor as per standard kit c/w additional items: TC-274 Pipe Cutter 1/4 to 1 1/8. Inner Outer Reamer, 127-RW Ratchet Wrench, Stepped Swage Punch for 1/4, 5/16, 3/8, 1/2 and 5/8 and 1/4, 3/8, 1/2 and 5/8 Bending Springs
Q044	VFT-808	Value® Eccentric Flare Tool Kit for 1/4, 5/16, 3/8, 1/2, 5/8 and 3/4 O.D. Tube includes sturdy carry case

Bending Springs

PART NO.	MODEL	SIZE
Q035	102-F-04	1/4
Q036	102-F-06	3/8
Q037	102-F-08	1/2
Q038	102-F-10	5/8
Q039	102-F-12	3/4
Q040	102-F-14	7/8



Refco Bending Springs – Multi-Pack

PART NO.	MODEL	SIZE
Q042	9881635	1/4, 5/16, 3/8 - 7/16 - 1/2 - 5/8 - 3/4

Tube Benders

PART NO.	MODEL	SIZE
Q070	CH 666	Proex Mini Aluminium Triple Head Lever Benders for 1/4, 5/16 and 3/8 O.D. Tube
Q075	BABY-S	Scols "Baby S" Tube Bender for 3/8, 1/2 and 5/8
Q080	364 FHA-08	Imperial® Lever Type Tube Bender for 1/2 O.D. Tube
Q081	364 FHA-10	Imperial® Lever Type Tube Bender for 5/8 O.D. Tube
Q082	364 FHA-12	Imperial® Lever Type Tube Bender for 3/4 O.D. Tube
Q083	364 FHA-14	Imperial® Lever Type Tube Bender for 7/8 O.D. Tube
Q090	2.3022	RothenBerger Maxi Bender for 3/8, 1/2 and 5/8, 3/4 and 7/8 O.D. Tube
Q091	9.0614	RothenBerger Multi Bender for 1/2 and 5/8, 3/4 and 7/8 O.D. Tube
Q084	270-F-12	Imperial® Gear Benders for 3/4 O.D. Tube
Q085	270-F-14	Imperial® Gear Benders for 7/8 O.D. Tube
Q086	270-F-18	Imperial® Gear Benders for 1 1/8 O.D. Tube
Q088	HB-85	Hydraulic Tube Bender for Soft Copper Tube 1/4, 5/16, 3/8, 1/2, 5/8, 3/4 and 7/8 O.D. Tube

Javac Tube Straightening Tools

PART NO.	MODEL	SIZE
Q048	JAV-TST14	1/4 Tube Straightening Tool
Q049	JAV-TST38	3/8 Tube Straightening Tool
Q052	JAV-TST12	1/2 Tube Straightening Tool
Q053	JAV-TST58	5/8 Tube Straightening Tool

Tube Cutters

PART NO.	MODEL	SIZE
Q002	174-F	Imperial® 3/8 to 1 1/8 Compact Tube Cutter includes Spare Cutting Wheel
Q003	TC-127	Proex 1/8 to 5/8 Mini Tube Cutter
Q004	TC-274	ITE 1/8 to 1 1/8 Tube Cutter with Fold Away Reamer and Spare Wheel
Q005	TC-1050	The Original IMPTM 1/8 to 5/8 Compact Tube Cutter from Imperial
Q006	227-FA	Imperial® Junior 1/8 to 3/4 Tube Cutter
Q007	TC-1000	Imperial® 1/8 to 1 1/8 Tube Cutter with Fold Away Reamer and Spare Blade
Q008	312-FC	Imperial® 1/8 to 1 5/8 Tube Cutter with Fold Away Reamer and Spare Blade
Q009	206FB	Imperial® Adjust-O-Matic™ 3/8 to 2 5/8 Ratcheting Tube Cutter includes Spare Wheel Stored Under Handle Cap
Q092	VTC-19	Value® 1/8 to 3/4 Mini Tube Cutters
Q093	VTC-28	Value® 1/8 to 1 1/8 Compact Tube Cutters
Q094	VTC-28B	Value® 1/8 to 1 1/8 Tube Cutters
Q095	VTC-32	Value® 1/8 to 1 1/4 Tube Cutters
Q096	VTC-42	Value® 1/8 to 1 5/8 Tube Cutters
QV1001	VTC-70	Value® 1/8 to 2 5/8 Large Tube Cutters
QB1000	301-22	Bahco® 1/4 to 7/8 Mini Tube Cutters
QB1001	302-35	Bahco® 1/4 to 1 3/8 Tube Cutters includes Spare Cutting Wheel

Tube Cutter Spare Parts:

Imperial® Tube Cutter Spare Parts

PART NO.	MODEL	TO SUIT CUTTER
Q010	S080097 Cutter Wheel	TC-1050/227-FA
Q011	S080107 Cutter Wheel	TC-1000/312-FC
Q012	S080103 Cutter Wheel	206-FB
Q100	S080096 Cutter Wheel Screw	TC-1050/227-FA
Q101	S080104 Cutter Wheel Screw	TC-1000/312-FC
Q099	S080106 Cutter Wheel Screw	206-FB



Value® Tools Tube Cutter Spare Parts

PART NO.	DESCRIPTION
QV1082	Spare Cutter Wheel for VTC-19 Tube Cutter
QV1083	Spare Cutter Wheel for VTC-28/28B Tube Cutter
QV1084	Spare Cutter Wheel for VTC-32/42 Tube Cutter
QV1085	Spare Cutter Wheel for VTC-70 Tube Cutter

Tube Cutters

PART NO.	DESCRIPTION
QV1077	Spare Bearing for VTC-19 Tube Cutter*
QV1078	Spare Bearing for VTC-28/28B Tube Cutter
QV1079	Spare Bearing for VTC32/42/70 Tube Cutter

*Please note: The VTC-19 Tube Cutter has one bearing inside the cutting wheel – ALL other models have two

Value® Tools Tube Cutter Spare parts

PART NO.	DESCRIPTION
QV1070	Spare Blade Pin for VTC-19 Tube Cutter
QV1071	Spare Blade Pin for VTC-28 Tube Cutter
QV1072	Spare Blade Pin for VTC-28B Tube Cutter
QV1073	Spare Blade Pin for VTC-32/42 Tube Cutter
QV1074	Spare Blade Pin for VTC-70 Tube Cutter

Value® Tools Tube Cutter Spare Parts

PART NO.	DESCRIPTION
QV1088	Spare Circlip for VTC-19 Tube Cutter
QV1089	Spare Circlip for VTC-28/28B Tube Cutter
QV1090	Spare Circlip for VTC-32/42 Tube Cutter
QV1091	Spare Circlip for VTC-70 Tube Cutter

Bahco® Tube Cutter Spare Parts

PART NO.	DESCRIPTION
QB1002	Spare Cutting Wheel for 301-22 Mini Tube Cutter
QB1003	Spare Cutting Wheel for 302-35 Tube Cutter

ITE Capillary Tube Cutters

PART NO.	DESCRIPTION
Q014	ITE Model CTP-1 Capillary Tube Cutter

Tube Expanders:

ITE TEC-7 Tube Expander Set

PART NO.	DESCRIPTION
Q180	TEC-7 Expander Set includes Expander Tool, 7 Heads - 3/8, 1/2, 5/8, 3/4, 7/8, 1 1/8 and 1 3/8 in a foam filled metal carry case
Q181	TEC-7 Expander Tool Only (Pt No: TE-6-01)
Q182	3/8" Head to suit TE-7 Kit
Q183	1/2" Head to suit TE-7 Kit
Q184	5/8" Head to suit TE-7 Kit
Q185	3/4" Head to suit TE-7 Kit
Q186	7/8" Head to suit TE-7 Kit
Q187	1 1/8" Head to suit TE-7 Kit
Q188	1 3/8" Head to suit TE-7 Kit
Q189	1 5/8" Head to suit TE-7 Kit

PROEX CH-1000 Tube Expander Set

PART NO.	DESCRIPTION
Q179	CH-1000 Set includes Expander Tool, Inner/Outer Reamer 6 Heads - 3/8, 1/2, 5/8, 3/4, 7/8 and 1 1/8 metal carry case
Q169	Expander Tool Only to suit CH-1000 kit

Rothenberger ROCAM® Tube Expander Set

PART NO.	DESCRIPTION
Q190	ROCAM Tube Expander Set (12318) including 6 heads 3/8, 1/2, 5/8, 3/4, 7/8, 1 1/8

Replacement Tube Expander Heads

PART NO.	DESCRIPTION
Q170	Spare 3/8" Head to suit CH-1000 & ROCAM Expanders
Q171	Spare 1/2" Head to suit CH-1000 & ROCAM Expanders
Q172	Spare 5/8" Head to suit CH-1000 & ROCAM Expanders
Q173	Spare 3/4" Head to suit CH-1000 & ROCAM Expanders
Q174	Spare 7/8" Head to suit CH-1000 & ROCAM Expanders
Q175	Spare 1 1/8" Head to suit CH-1000 & ROCAM Expanders
Q176	Spare 1 3/8" Head to suit CH-1000 & ROCAM Expanders
Q177	Spare 1 5/8" Head to suit CH-1000 & ROCAM Expanders

Tek-Mate Leak Detector

PART NO.	DESCRIPTION
Q493	Tek-Mate Leak Detector

D-Tek Select Rechargeable Leak Detector

PART NO.	DESCRIPTION
Q494	D-Tek Select Rechargeable Leak Detector

CPS Leak Seeker II Leak Detector

PART NO.	DESCRIPTION
Q491	CPS Leak Seeker II Leak Detectors

Gas Mate Leak Detector

PART NO.	DESCRIPTION
Q4900	Gas Mate Leak Detector

Leak Detector Spares

PART NO.	DESCRIPTION
Q495	Replacement Sensor for TEK-Mate & D TEK
Q496	Replacement Filters for TEK-Mate
Q497	Replacement Filters for D-TEK
Q511	Replacement Filters for CPS Leak Seeker II (Pack 10)
Q482	Replacement Sensor for CPS Leak Seeker II



Gotec LDS & LT45 Leak Detector Spray

OPERATING RANGE:	LDS	0 DEG°C TO + 50 DEG°C
	LT-45	-45 Deg °C to + 50 Deg °C

PART NO.	DESCRIPTION
Q145	Gotec LDS Leak Detector Spray (0° to +50°C)
Q146	Gotec LT-45 Leak Detector Spray (-45 to +50°C)

Errecom Best Bubbles

PART NO.	DESCRIPTION
Q799	Errecom Best Bubbles 1 Litre (Ready to Use) (-40°C to +80°C)

RTU® and EasyFind™ Leak Detectors

PART NO.	DESCRIPTION
M480	RTU® Bubble Up Leak Detector 1 Litre Trigger Spray
M486	EasyFind Bubble-Up Leak Detector Spray (400ml Aerosol)

Errecom "Brilliant" UV Dye

PART NO.	DESCRIPTION
M336	Errecom "Brilliant" UV Dye Syringes (Pack 12)

Spectroline® Optimax Junior UV Starter Kit

PART NO.	DESCRIPTION
Q552	Optimax Junior UV Dye Starter Kit
Q554	Spare EZ4/E, EZ/Ject Dye Cartridge (ester)
Q600	AntiGlo UV Dye Remover 250ml Aerosol

Spectroline® Glo-Stick® Dye Capsules:

Universal Cartridges: For Mineral Oil, Polyol Ester and Alkyl Benzene

PART NO.	DESCRIPTION
Q565	GS-101/E Glo-Stick Capsule Universal
Q566	GS-1/E Glo-Stick Capsule Universal
Q567	GS-2/E Glo-Stick Capsule Universal
Q568	GS-3/E Glo-Stick Capsule Universal



Section M

Refrigeration services





Marine Refrigeration

Flynn Refrigeration can provide marine refrigeration service engineers who can carry out a wide range of services.

Our engineers are available to attend vessels throughout the UK, and with a wide network of refrigeration engineers around the world, and we can attend many large key ports. This helps to avoid excessive travel costs and ensures overall costs are kept to a minimum.

Our range of services include:

- Compressor overhauls
- Conversion of refrigeration and air conditioning systems with a wide range of new refrigerants
- Breakdown and trouble-shooting
- Leak detection and pressure testing
- Installation of new air conditioning plants and refrigeration systems
- Annual inspections to ensure systems are kept in optimum condition
- Electronic control systems and upgrades by our specialist technicians.

Request for Servicing

If you would like us to attend your vessel, please contact us to request a 'Job Specification' form. This will allow us to clearly analyse your requirements and provide you with a cost-effective service.

When you need us to provide an engineer, you can be assured that all work is delivered and completed by trained specialists and monitored by our in-house specialist who will endeavour to keep you informed at all stages.

For further information about refrigeration services, please contact our service management team.



Section N

Refrigerated air dryers



Refrigerated Air Dryers

We can supply a comprehensive range of refrigerated air dryers and desiccant dryers to ensure that the air on-board vessels is kept clean and free from contamination.

This range includes models from Almig, CompAir, Donaldson, Renner and Hi-Line.

Donaldson Buran Fridge Dryer with Integrated P&A Filter

PART NO.	CONNECTION	FLOW	FLOW CFM	WIDTH	DEPTH	HEIGHT	WEIGHT
DC0020AB	3/4"	20 m3/h	11.7	560mm	520mm	720mm	38kg
DC0035AB	3/4"	35 m3/h	20.6	510mm	550mm	720mm	36kg
DC0050AB	3/4"	50 m3/h	29.4	550mm	500mm	720mm	40kg
DC0065AB	3/4"	65 m3/h	38.3	55mm	510mm	720mm	41kg
DC0085AB	3/4"	85 m3/h	50	55mm	510mm	710mm	48kg
DC0105AB	3/4"	105 m3/h	61.8	610mm	580mm	830mm	55kg
DC0125AB	3/4"	125 m3/h	73.6	550mm	150mm	720mm	47kg

PART NO.	CONNECTION	FLOW	FLOW CFM	WIDTH	DEPTH	HEIGHT	WEIGHT
DC0150AB	1 1/2"	150 m3/h	88.3	690mm	690mm	1040mm	78kg
DC0180AB	1 1/2"	180 m3/h	105.9	700mm	700mm	1050mm	75kg
DC0225AB	1 1/2"	225 m3/h	132.43	700mm	700mm	1040mm	78kg
DC0300AB	1 1/2"	300 m3/h	176.57	700mm	700mm	1160mm	82kg
DC0360AB	1 1/2"	360 m3/h	211.88	700mm	700mm	1040mm	85kg

PART NO.	CONNECTION	FLOW	FLOW CFM	WIDTH	DEPTH	HEIGHT	WEIGHT
DC0450AB	2"	450 m3/h	264.86	1200mm	1000mm	1230mm	164kg
DC0550AB	2"	550 m3/h	323.71	1000mm	1020mm	1230mm	173kg
DC0650AB	2"	650 m3/h	382.58	1200mm	1000mm	1230mm	173kg
DC0750AB	2"	750 m3/h	441.43	1020mm	910mm	1240mm	194kg
DC0850AB	2"	850 m3/h	500.29	1030mm	920mm	1100mm	202kg

Tundra Refrigerant Air Dryer

PART NO.	CFM	M/HR	M/MIN	CONN	WEIGHT (KG)	DIMENSIONS H X L X W (MM)	REFRIGERANT
TUNDRA 21	21	35	583	1/2"	23	365X455X500	R134A
TUNDRA 36	36	62	1019	1/2"	26	365X455X500	R134A
TUNDRA 50	50	84	1415	1/2"	28	365X455X500	R134A
TUNDRA 68	68	115	1925	3/4"	37	410X560X550	R134A
TUNDRA 90	90	153	2548	1"	39	410X560X550	R134A
TUNDRA 120	120	204	2400	1"	43	350X540X550	R407C
TUNDRA 159	159	270	4502	1 1/2"	47	350X540X1010	R407C
TUNDRA 210	210	356	5946	1 1/2"	90	440X600X960	R407C
TUNDRA 295	295	500	835	1 1/2"	95	440X600X960	R407C
TUNDRA 409	409	694	11581	1 1/2"	130	590X910X1220	R407C
TUNDRA 465	465	788	13116	1 1/2"	150	590X910X1220	R407C
TUNDRA 600	600	1016	16990	2"	173	590X910X1220	R407C
TUNDRA 770	770	1305	21803	2 1/2"	175	590X910X1220	R407C
TUNDRA 1020	1020	1711	28883	3"	300	740X1410X1490	R407C
TUNDRA 1330	1330	2253	37660	3"	300	740X1410X1490	R407C
TUNDRA 1605	1605	2720	45448	DN100	330	740X1410X1490	R407C



Section O

Air conditioning units and spares



Standard Inverters

SRK-ZJ (2.5 - 5.0kW)

The SRK Standard Inverter range offers energy efficient cooling and heating for individual rooms with a range of models from 2.5 kW - 5.0 kW cooling capacity. It features anti-allergen and deodorising filters, a self-clean operation, high power and economy modes, quiet operation and three-dimensional louver controls for increased comfort.



SRK-ZK (6.3 - 8.0kW)

The SRK-ZK range is an extension of the standard inverter range, which combines all the same features in new larger capacity models from 6.3kW - 8.0kW cooling capacity. The ZK range also features extended pipe runs up to 30m.

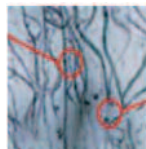
Self Clean Operation

A new feature of wall mounted indoor units is the "self-clean operation". When selected by the user, the unit will operate in a self-clean mode for 2 hours after the unit has stopped its normal operation, removing moisture to prevent mould growth.



Mould spores

Fungal mycelia



Mould spores

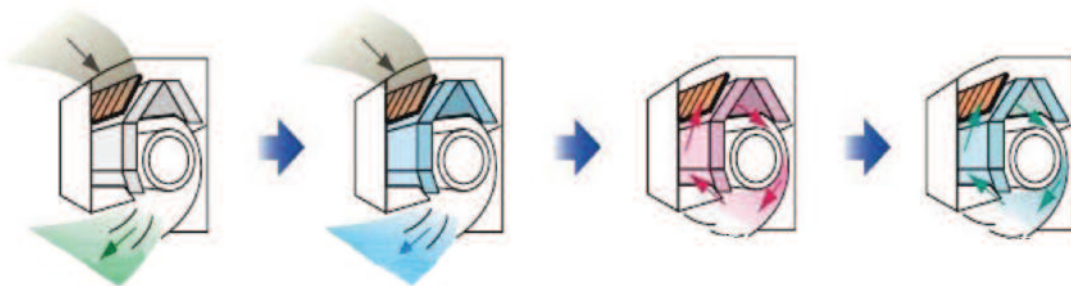
Mould development in seven days:

Selecting the "self clean operation" prevents mould spores from developing.

Without selecting the "self clean operation" fungal mycelia can develop from mould spores.

Allergen Clear System

To maintain fresh conditioned air in the room, an anti-allergen filter is included to capture and suppress allergens by controlling the temperature and humidity.



Allergens are captured on the filter

Cooling operation creates condensing water

Heating operation sends moisture through the filter, deactivating allergens

Self clean operation dries the filter and removes moisture

INDOOR UNIT C/W IR CONTROLLER	SRK25ZK-S	SRK35ZJ-S	SRK50ZJ-S	SRK63ZK-S	SRK71ZK-S	SRK80ZK-S
OUTDOOR UNIT	SRC25ZJ-S	SRC35ZJ-S	SRC50ZJ-S	SRC63ZK-S	SRC71ZK-S	SRC80ZK-S
Cooling (nominal) {kW}	2.5	3.5	5.0	6.3	7.1	8.0
Cooling Range {kW}	1.0 to 2.9	1.0 to 3.8	1.6 to 5.5	2.2 to 7.1	2.2 to 8.0	2.2 to 8.5
UK cooling {kW}	2.4	3.3	4.8	6.0	6.8	7.6
UK sensible cooling {kW}	1.9	2.6	3.4	4.7	5.1	5.7
E.E.R (energy label)	4.03 (A)	3.47 (A)	3.23 (A)	3.58 (A)	3.29 (A)	3.02 (B)
Heating (nominal) {kW}	3.2	4.0	5.8	7.1	8.0	9.0
Heating range {kW}	1.2 to 4.2	1.3 to 4.8	1.6 to 6.6	1.7 to 9.5	1.6 to 10.0	1.7 to 10.5
C.O.P {energy label}	4.00 (A)	4.00 (A)	3.65 (A)	3.97 (A)	3.74 (A)	3.53 (B)
Operating range {outdoor air} cooling (°C DB)	-15 to 46	-15 to 46	-15 to 46	-15 to 46	-15 to 46	-15 to 46
Operating range {outdoor air} heating (°C WB)	-15 to 21	-15 to 21	-15 to 21	-15 to 21	-15 to 21	-15 to 21
INDOOR UNIT						
Exterior dimensions HxWxD (mm)	294x798x229	294x798x229	294x798x229	318x1098x248	318x1098x248	318x1098x248
Net weight (kg)	9.5	9.5	9.5	15	15	15
Air volume (UL/L/M/H) cooling {m3/s}	na/0.08/0.10/ 0.13	na/0.08/0.11/ 0.17	na/0.09/0.13/ .019	0.13/0.22/0.27/ 0.31	0.13/0.23/0.2 9/0.33	0.13/0.25/0.3 1/0.35
Air volume (UL/L/M/H) heating {m3/s}	na/0.09/0.11/ 0.18	na/0.10/0.16/ 0.21	na/0.13/0.17/ 0.23	0.21/0.24/0.30/ 0.34	0.23/0.26/0.33/ .036	0.25/0.28/0.34/ 0.39
Sound pressure level (UL/L/M/H) cooling {dB{A}}	na/21/28/34	na/22/32/42	na/33/42/48	26/37/43/47	26/39/45/49	26/41/47/50
Sound pressure level (UL/L/M/H) heating {dB{A}}	na/24/31/39	na/25/37/43	na/36/45/48	33/36/41/44	35/38/43/46	37/40/45/48
OUTDOOR UNIT						
Exterior dimensions HxWxD (mm)	540x780(+62) x290	540x780(+62) x290	640x800(+71) x290	750x880(+88) x340	750x880(+88) x340	750x880(+88) x340
Net weight (kg)	32	35	42	57	57	57
Sound pressure level (dB(A))	49	51	53	50	53	56
ELECTRICAL DATA						
Power source rating MCB (A)	16	16	20	25	25	25
Mains power to outdoor	230v/1ph/ 50Hz	230V/1ph/ 50Hz	230V/1ph/ 50Hz	230V/1ph/ 50Hz	230V/1ph/ 50Hz	230V/1ph/ 50Hz
Interconnecting wires	3 + E	3 + E	3 + E	3 + E	3 + E	3 + E
Running current cooling (A)	3.1	4.7	6.8	8.0	9.7	11.9
Running current heating (A)	3.8	4.7	7.0	8.1	9.7	11.4
Power input cooling (kW)	0.62	1.01	1.55	1.76	2.16	2.65
Power input heating (kW)	0.80	1.00	1.59	1.79	2.14	2.55
Start-max run current (A)	4 – 9	5 – 9	7 – 14	8 – 17	10 – 17	12 – 17
INSTALLATION/REFRIGERANT						
Ref piping size o.d.ins (mm) {liquid}	1/4" (6.35)	1/4" (6.35)	1/4" (6.35)	1/4" (6.35)	1/4" (6.35)	1/4" (6.35)
Ref piping size o.d.ins (mm) {gas}	3/8" (9.52)	3/8" (9.52)	1/2" (12.7)	5/8" (15.88)	5/8" (15.88)	5/8" (15.88)
Ref max piping length (m) Vertical height difference max	15	15	25	30	30	30
Outdoor unit above indoor unit (m)	10	10	15	20	20	20
Outdoor unit below indoor unit (m)	10	10	15	20	20	20
Refrigerant amount precharged (kg)	0.9	1.1	1.35	1.8	1.8	1.8
For pipe length up to (m)	15	15	15	15	15	15
Additional refrigerant (g/m)	n/a	n/a	20	25	25	25

These units are suitable for 50/60HZ however the units only state 50HZ on the name plate

VK Air Cooled Self Contained marine AC Unit

Nominal cooling loads 3.5kW, 5.25kW, 7.00kW
38.08.15 70 230/50/1
Air cooled
Refrigerant R407c standard
Internal section
<ul style="list-style-type: none"> Zintec coated mild steel casing with powder coated pain finish RAL 9018 (grey)
External section
<ul style="list-style-type: none"> Condenser fan motors to IP56 Cu/Cu condenser coil Stainless steel 316 casing with powder coated paint finish RAL 9018 (grey)
Removable panels for access and maintenance
Quick supplied factory precharged
Electrical supply: 220V 1ph 50/60Hz
380V 3ph 50Hz
440V 3ph 60Hz

PRODUCT CODE	VK12	VK18	VK24	OPTIONS AVAILABLE
Nominal cooling load (kW)	3.50	5.25	7.00	Colour to suit operating environment
Nominal air flow	low (m3/h)	400	500	800 Split system version
	high (m3/h)	500	675	1000 Electrical heating
Evap. Fan motor rating (kW)	0.037	0.045	0.074	Refrigerants R404a, R134a
Comp. motor power (kW)	1.8	2.28	2.89	
Cond. Fan motor rating (kW)	0.18	0.25	2 @ 0.18	
Unit dimensions	H (mm)	450	550	
	W (mm)	760	760	1060
Unit weight (kg)	120	130	190	
Electrical heating (optional) (kW)	1.5	1.5	3.0	

Nominal duties are based on air entering @ 25°Cdb @ 50% RH utilising R407c with ambient air @ 40°C

TR Self Contained Marine Air Conditioning Unit

Nominal cooling loads 7.0 kW to 70.0 kW
Sea water / fresh water cooled through shell and tube condenser
Refrigerant R404a
Plenum and grille discharge
Electro coated mild steel casing with powder coated paint finish 9018 (Grey)
Removable panels for access and maintenance
Quick release grille for air filter cleaning and replacement
Units supplied factory precharged, only requiring suitable water and electrical connections
Electrical supply 380V 3ph 50Hz or 440V 3ph 60Hz

PRODUCT CODE	TR02	TR03	TR05	TR08	TR10	TR15	TR20	OPTIONS AVAILABLE
Nominal cooling load (kW)	7.0	10.5	17.5	28.0	35.0	56.0	70.0	Colour to suit operating environments
Nominal air flow (m3/h)	1080	1530	2550	4075	5100	7725	10200	Fresh air connection
Plenum dis. Fan motor (kW)	0.18	0.37	0.55	1.10	1.50	2.20	3.00	Fan pressures to suit application
Comp. motor power (kW)	2.89	3.55	5.48	9.79	10.94	19.58	21.88	Electric Heating
Nominal sea water qty. (m3/h)	1.34	1.43	2.51	4.14	6.89	8.28	13.78	290V 3ph 60Hz electric supply
Nominal fresh water qty. (m3/h)	1.02	1.11	2.10	3.30	4.26	6.60	8.52	Spigoted Duct Connection
Unit dimensions H (mm)	1300	1300	1600	1800	1800	2000	2100	Refrigerant R134a or R407c
W (mm)	700	900	900	1100	1250	1400	1800	See separate data sheet for air cooled TR unit
D (mm)	450	450	550	650	650	850	850	
P (mm)	110	120	180	230	230	300	330	
Unit weight (kg)	169	193	246	312	365	557	668	
Electrical heating (optional)(kW)	1x3.0	1x4.5	2x4.5	2x9.0	2x9.0	3x9.0	4x9.0	

Nominal duties are based on air entering at 23°C @ 50% RH utilising R404a with seawater @ 32°C or freshwater @ 36°C

TRA Air Cooled Split Marine Air Conditioning System

Nominal cooling loads 10.5 kW to 70.0 kW
Air cooled
Refrigerant R407c
Internal section <ul style="list-style-type: none"> • Electro coated mild steel casing with powder coated paint finish RAL 9018 (grey) • Removable panels for access and maintenance • Quick release grill for air filter cleaning and replacement
External section <ul style="list-style-type: none"> • Electro coated mild steel casing with powder coated paint finish RAL 9018 (grey) • Condenser coil with CU tubes and CU fins
Units supplied factory precharged
Electrical supply 380V 3ph 50Hz or 440V 3ph 60Hz

PRODUCT CODE	TR03	TR05	TR08	TR10	TR15	TR20	OPTIONS AVAILABLE
Nominal cooling load (kW)	10.5	17.5	28.0	35.0	56.0	70.0	Colour to suit operating environment
Nominal air flow (evaporating)(m3/h)	1530	2550	4075	5100	7725	10200	Fan pressures to suit application
Plenum dis. fan motor (kW)	0.37	0.55	1.10	1.50	2.12	3.00	Electric heating
Comp. motor power (kW)	3.55	5.48	9.79	10.94	19.58	21.88	690V 3ph 60Hz electric supply
Nominal condensing load (kW)	14.42	21.42	33.24	47.44	77.78	94.88	Refrigerant R134a
Nominal air flow (condensing)(m3/h)	6624	9360	14400	21600	28080	37440	Horizontal air flow external section
Cond. fan motor rating (total)(kW)	2@0.37	2@0.55	2@0.75	3@0.58	3@0.75	4@0.75	Interconnecting pipe cable
Electric heating (optional)(kW)	1 x 4.5	2 x 4.5	2 x 9.0	2 x 9.0	3 x 9.0	4 x 9.0	
INTERNAL SECTION							
Dimensions Unit H (mm)	1300	1600	1800	1800	2000	2100	
W (mm)	900	900	1100	1250	1400	1800	
D (mm)	450	550	650	650	850	850	
P (mm)	120	180	230	230	300	330	
Unit weight (kg)	178	219	284	328	501	594	
EXTERNAL SECTION							
Dimensions Unit H (mm)	1380	1400	1420	1400	1420	1420	
W (mm)	1200	1400	1700	2400	2600	3200	
D (mm)	700	800	900	900	1100	1100	
Unit weight (kg)	154	200	253	290	409	528	

Nominal duties are based on air entering at 35°Cdb @ RH utilising R407c with ambient air at 40°C

KWG Galley Self Contained Air Conditioning Unit

Unit designed to meet SOLAS 2000 requirements
Nominal cooling loads 10.0 kW to 25.0 kW
Fresh water cooled through plate heat exchanger
Refrigerant R404a
Ducted, filtered rear inlet and vertical discharge
Electro coated mild steel casing with powder coated paint finish RAL 9018 (grey)
Removable panels for access and maintenance
Units supplied factory precharged only requiring suitable water and electrical connections
Electrical supply 380V 3ph 50Hz or 440V 3ph 60Hz
Electrical heating

PRODUCT CODE	KWG10	KWG15	KWG20	KWG25	OPTIONS AVAILABLE
Nominal cooling load (kW)	10.0	15.0	20	25	Stainless steel 316 casing with powder coated paint finish RAL 9018 (grey)
Nominal heating load (m3/h)	9.0	12.0	13.5	18.0	Colour to suit operating environment
Nominal air flow (m3/h)	600	700	1100	1550	Alternative fan pressures
External pressure (kW)	600	600	600	600	Split system version
Fan motor rating (kW)	0.37	0.37	0.55	0.75	Hot water heating
Comp. motor power (kW)	3.55	4.72	6.45	9.79	Refrigerant R134a or R704c
Nominal water qty. (m3/h)	1.08	1.56	3.12	3.70	Seawater cooled through coaxial condenser

Nominal duties are based on 100% fresh air entering at 35°Cdb @ 70% RH (summer) and -25°C (winter) utilising R404a with fresh water @ 36°C

Spare Parts for Daikin Seawater Cooled Packaged Air Conditioning Units Spares Suitable for USP-3H

PART NO	DESCRIPTION
1153039 (JT112BF-YE)	Scroll Compressor
1152942 (2P052550-0)	Evaporator
1152973 (CXS1407A-10)	Complete Condenser
201755 (2PA1507-1)	Front End Condenser Cover CXS14
202088 (R3621382-3)	Gasket for Front Cover
201756 (2PA1508-1)	Rear End Condenser Cover CXS14
202188 (R3621382-4)	Gasket for Rear Cover
203018 (4SA90001-7)	Zinc Plate 20 x 20 T20
203019 (4SA90001-8)	Zinc Plate 50 X 25 T20
758556 (4SK202292-9)	Gasket Packing Connecting Flange
232002 (R3269032-1)	Refrigerant Filter FI-333
1222067 (3SK50005-1)	High Pressure Gauge
1222074 (3SK50005-2)	Low Pressure Gauge
940023 (A-23)	V Belt
440218 (R36211055-2)	Air Filter
631459 (R3420848)	Rotary Switch EK3301
697776 (R232419-1-KI)	Thermostat EUH-IT412A L=1000
284053 (ACB-BB06)	High Pressure Switch
691374 (LCB-LA29)	Low Pressure Switch
1319651 (JT112BF-YE)	Scroll Compressor for R404A
1319714 (CXS1407A-10)	Complete Condenser
1319790 (ACS01A018)	Expansion Valve ATX-34023BUS
632374 (R3310421-3)	High Pressure Switch ACB-BB87

Spares Suitable for USP-5H

PART NO	DESCRIPTION
1081569 (JT150BF-YE)	Scroll Compressor
1152942 (2P052550-0)	Evaporator
115299 (CXS1410A-5)	Complete Condenser
201757 (2PA01505-1)	Front End Condenser Cover
202089 (R3621383-3)	Gasket for Front Cover
201758 (2PA01506-1)	Rear End Condenser Cover CXS14S1410A
202189 (R3621383-4)	Gasket for Rear Cover
203018 (4SA9001-7)	Zinc Plate 30X20T20
203019 (4SA90001-8)	Zinc Plate 50 X 25T20
232002 (R3269032-1)	Refrigerant Filter FI-333
1152632 (R3269032-1)	Expansion Valve KPX-34208BQS-Q57
1222067 (3SK50005-1)	High Pressure Gauge
1222074 (3SK50005-2)	Low Pressure Gauge
940043 (A-43)	V Belt
440321 (R36211055-1)	Air Filter
697776 (R232419-1-KI)	Thermostat EUH-IT412A L=1000
284053 (R3310421-1)	High Pressure Switch
691374 (LCB-LA29)	Low Pressure Switch
1289349 (JT150BK-YE)	Scroll Compressor for R404A
1319714 (CXS1410A-5R)	Complete Condenser
1319808 (ACS01A019)	Expansion Valve ATX-34035BUS
632374 (R3310421-3)	High Pressure Switch ACB-BB87

Spares Suitable for USP-8H

PART NO	DESCRIPTION
1297580 (JT236DAFYE)	Scroll Compressor
1152966 (2P052547-1)	Evaporator
1152997 (CXS1711-A-5)	Complete Condenser
201759 (2P050130-1)	Front End Condenser Cover
202090 (R3621384-3)	Gasket for Front Cover
201760 (2PA01510-1)	Rear End Condenser Cover CXS1711A
202189 (R3621383-4)	Gasket for Rear Cover
203016 (4SA90001-3)	Zinc Plate 50 X25X20
202190 (4SA90001-2)	Zinc Plate 75 X 30 X 20
231501 (R3269032-3)	Refrigerant Filter FI-344
1152649 (RSA500033-1)	EXPANSION VALVEBHX-45050BPS-Q170
1222067 (3SK50005-1)	High Pressure Gauge
1222074 (3SK50005-2)	Low Pressure Gauge
940044 (A-44)	V Belt
758859 (R36211055-5)	Air Filter
697776 (R232419-1-KI)	Thermostat EUH-IT412A L=1000
284053 (R3310421-1)	High Pressure Switch
691374 (LCB-LA29)	Low Pressure Switch
1319668 (JT236DDFYE)	Scroll Compressor for R404A
1319707 (CXS1711A-5R)	Complete Condenser
1319815 (ACS01A020)	Expansion Valve ATX-57060DUS
632374 (R3310421-3)	High Pressure Switch ACB-BB87

Common Spares for Carrier 90MA 004 006

PART NO	DESCRIPTION
HH22AC-090	Thermostat
HK02AB-028	Low Pressure Control
50BA405-594	Coil Assembly for 90MA 204
50BA405-574	Coil Assembly for 90MA 206
KH45LD-065	Filter Drier for 90 MA 204
KH45LD-118	Filter Drier for 90 MA 206
50BW500-014	Condenser Coil for 90MA 204
50BW500-424	Condenser Coil for 90MA 206
EB31DF-212	Water Regulating Valve
90C02-1191-04	Expansion Valve for 90MA204-404
90C02-1191-13	Expansion Valve for 90MA504-531
90C02-1191-05	Expansion Valve for 90MA204-406
90C02-1191-07	Expansion Valve for 90MA506-531
90C02-4062-00	Compressor for 90MA204-404/504-531
90C02-4062-01	Compressor for 90MA204-404/504-631-931
90C02-4062-02	Compressor for 90MA206-406/506-531
90C02-4062-03	Compressor for 90MA206-406/506-631/931
90C02-7772-06	Bearing Fan 90MA-204-404
90C02-7782-06	Bearing Fan 90MA-206-406
90C02-7772-01	Blower Wheel 90MA-204-404
90C02-7782-01	Blower Wheel 90MA-206-406-506
90C02-7772-05	Shaft Fan 90MA-204-404
90C02-7782-05	Shaft Fan 90MA-206-406
P465-4L460	Belt for 90MA204-404
P465-4L430	Belt for 90MA206-406
KH03DU-330	Air Filter

Common Spare Parts for 90MA-008

PART NO	DESCRIPTION
HH22AC-090	Thermostat
HK02ZB-028	Low Pressure Control for 90MA-208/408
HZ02ZB-038	Low Pressure Control for 90MA-308-
HZ02ZA-395	High Pressure Control for 90MA-208/408
50BW400-034	Coil Assy 90MA-208/408/308
90C02-1351-00	Liquid Indicator
90C02-1341-00	Filter Drier
06DR7180DA-3250	Compressor for 90MA208/408/508-531
06DA8182AA-365A	Compressor for 90MA208/408/508-631-931
90C02-1191-00	Expansion Valve For 90MA-408/531/631/931
90C02-1191-08	Expansion Valve For 90MA-508/531/631/931
90C02-1191-01	Expansion Valve For 90MA-308/531/631-931
KR30AE-033	Belt
KR11AH-508	Pulley



Section P

Air conditioning duct fans



Air Conditioning Duct Fans

Comefri Fans

We can supply a range of air conditioning duct fans, including a wide variety of Double and Single Inlet fans from Comefri.

These reputable fans are known for their reliability in harsh environments and can be optimised to suit many requirements.

Water-tight electrical connections enable them to withstand corrosive environments and their heavy-duty electric motors allows them to be installed either above or below deck.

DOUBLE INLET
THLZ FF
NTHZ
MHZ
MAZ
TZAF FF

SINGLE INLET
TLE
THLE
NTHE
TEAF
BCE
BAFE
KHLE

PLENUM
NPA-NPA ALU
NPL-NPL ALU



Systemair Fans

We can supply a range of circular duct fans, including the popular K range, which are designed with an airtight, sealed casing, voltage controllable external rotor motor, and radial impeller with backward curved blades.

PART NO.	DESCRIPTION
1001	K 100 M SILEO
25360	K 100 XL SILEO
1002	K 125 M SILEO
25361	K 125 XL SILEO
15362	K 150 M SILEO
25363	K 150 XL SILEO
25364	K 160 M SILEO
25365	K 160 XL SILEO
19510	K 220 L SILEO
25366	K 200 M SILEO
19512	K 250 L SILEO
25367	K 250 M SILEO
19514	K 315 L SILEO
27758	K 315 M SILEO

Nicotra Fans

Our range of Nicotra fans include Direct Driven Centrifugal Fans, Plug Fans, Belt Drive Centrifugal Fans and Hybrid Direct Driven Centrifugal Fans.

- DD
- DDMP
- DDM



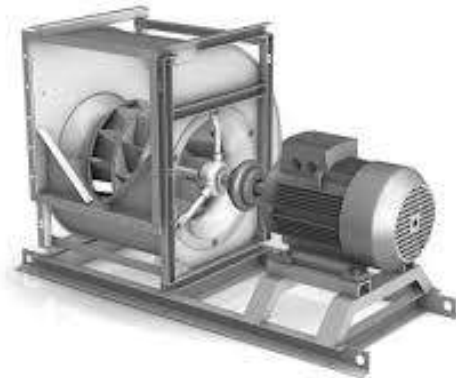
- TEM, SAI, SAIR
- RZA
- RZP

- RDP
- RZM
- REM



- RLE 20/30
- PFP
- ADH

- AT
- RDH
- RER
- RZR



The units are suitable for 50/60HZ. However, units may only state 50HZ on the name plate. Please contact us for further information.



Section Q

Marine refrigerators



Marine Refrigerators

We supply a vast range of refrigerators, drinking water coolers and icemakers to suit many applications, from small cabin refrigerators to large stainless-steel cabinets.

Our range includes **Dometic, Gamko, Foster and Porkka refrigerators.**

PART NO.		DESCRIPTION
174643/174644	60Hz 220V	Refrigerator, Under-Counter



PART NO.		DESCRIPTION
174641/174642	60Hz 220V	Refrigerator, Mini

MARINE REFRIGERATORS

Designed for use in galleys, Porkka Future series of upright cabinets are manufactured from quality materials to ensure long lasting performance in arduous conditions.

Designed to operate in ambient temperatures up to +43°C the cabinets are supplied with marine legs, captive door fastener and storm edged shelving which are all fitted with ant-tilt runners to avoid accidental spillages.

Features

- Digital temperature display with built-in microprocessor controller
- Keyboard tamper protection
- Recording of max./min. temperature
- Visual and audible high/low temperature alarm
- Door open alarm
- Probe failure alarm
- Exterior/interior finish in stainless steel grade AISI 304
- Insulation with high density CFC/HCFC free polyurethane
- 4 pcs stainless steel wire grills with dorm edge, adjustable in increments of 30mm
- 4 pairs anti-tilt stainless steel shelf runners
- Door equipped with marine handle complete with lock, magnetic gasket and heavy-duty spring hinges
- Efficient and energy saving, hermetic air-cooled CHC/HCFC refrigerant system
- Marine stainless-steel legs to accept 9mm deck fixing bolts, height adjustable from 130mm to 205mm
- Electrical supply 230V/50-60Hz or 115V/60Hz

Optional Features

- Available with environmentally friendly and energy efficient refrigerant R290
- Extra shelves as required
- Stainless steel panel shelves with storm edge
- Shorter marine stainless-steel legs, adjustable from 70 to 105mm
- Coded lock for limited personal access
- Real-time temperature data logging with download to USB facility
- Door operated internal LED light
- Foot-pedal door opener
- Water cooled condenser with valve for connection to a chiller plant system
- Also available for connection to a central cooling refrigeration system
- Heat treat wooden packaging

	FM C 520 (E)	FM F 520 (E)	FM C 720 (E)	FM F 720 (E)	FM C 722 (E)	FM F 722 (E)
TEMPERATURE	+1 - +12°C	-26 - -15°C	+1 - +12°C	-26 - -15°C	+1 - +12°C	-26 - -15°C
AMBIENT TEMPERATURE	+5 - +43°C	+5 - +43°C	+5 - +43°C	+5 - +43°C	+5 - +43°C	+5 - +43°C
WIDTH (mm)	600	600	850	850	730	730
DEPTH (mm)	700	700	700	700	800	800
HEIGHT (mm)	2030	2030	2030	2030	2030	2030
INTERNAL WIDTH (mm)	480	480	730	730	610	610
INTERNAL DEPTH (mm)	560	560	560	560	660	660
INTERNAL HEIGHT (mm)	1430	1430	1430	1430	1430	1430
USABLE NET VOLUME (LTR)	291	291	471	471	453	453
SHELVES	4	4	4	4	4	4
SHELF SIZES (width x depth)	400 x 530	400 x 530	650 x 530	650 x 530	530 x 650	530 x 650
CONNECTION POWER (kW)	0.33	0.56	0.33	0.56	0.33	0.56
VOLTAGE	230V / 50-60Hz	230V / 50-60Hz	230V / 50-60Hz	230V / 50-60Hz	230V / 50-60Hz	230V / 50-60Hz
GROSS WEIGHT (kg)	120	120	140	140	150	150

MARINE REFRIGERATORS

For use in galleys and food preparation areas Porkka Future cabinets are manufactured from quality materials to a high standard, to ensure optimum performance in busy kitchens.

Glass window cabinets can operate in ambient temperatures up to +32°C whilst combination cabinets operate up to +43°C. The vision panel which can be fitted to chiller models only, allow rapid selection of produce prior to opening the door, which reduces power consumption by keeping door opening to minimum.

Features

- Digital temperature display with built-in microprocessor controller
- Keyboard tamper protection
- Recording of max./min. temperature
- Visual and audible high/low temperature alarm
- Door open alarm
- Probe failure alarm
- Exterior/interior finish in stainless steel grad AISI 304
- Insulation with high density CFC/HCFC free polyurethane
- 4 pcs stainless steel wire grills with storm edge, adjustable in increments of 30mm
- 4 pairs anti-tilt stainless steel shelf runners
- Door(s) equipped with marine handle complete with lock, magnetic gasket and heavy-duty spring hinges
- Efficient and energy saving, hermetic air-cooled CFC/HCFC refrigerant system
- Marine stainless-steel legs to accept 9mm deck fixing bolts, height adjustable from 130mm to 205mm
- Electrical supply 230V/50-60Hz for cabinets with glass windows
- Electrical supply 230V/50-60Hz for combined cabinets

Optional features

- Available with environmentally friendly and energy efficient refrigerant R290
- Extra shelves as required
- Stainless steel panel shelves with storm edge
- Shorter marine stainless-steel legs, adjustable from 70 to 105mm
- Coded lock for limited personal access
- Real-time temperature data logging with download to USB facility
- Door operated internal LED light for combined cabinets
- Water cooled condenser with valve for connection to a chiller plant system for cabinets with glass window
- Also available for connection to a central cooling refrigeration system
- Heat treated wooden packaging

	FM C 520 GW	FM C 720 GW	FM C 722 GW	FM C 722 C/C	FM 722 C/M	FM 722 C/F
TEMPERATURE	+1 - +12°C	+1 - +12°C	+1 - +12°C	(+1 - 12°C/+1 - +12°C)	(+1 - 12°C/-5 - +12°C)	(+1 - +12°C/-26 - -15°C)
AMBIENT TEMPERATURE	+5 - +43°C	+5 - +43°C	+5 - +43°C	+5 - +43°C	+5 - +43°C	+5 - +43°C
WIDTH (mm)	600	850	730	730	730	730
DEPTH (mm)	700	700	800	815	815	815
HEIGHT (mm)	2030	2030	2030	2030	2030	2030
INTERNAL WIDTH (mm)	480	730	610	610	610	610
INTERNAL DEPTH (mm)	560	660	660	560	660	660
INTERNAL HEIGHT (mm)	1430	1430	1430	2 x 565	2 x 565	2 x 565
USABLE NET VOLUME (LTR)	287	464	447	2 x 150	2 x 150	2 x 150
SHELVES	4	4	4	4	4	4
SHELF SIZES (width x depth)	400 x 530	650 x 530	530 x 650	530 x 650	530 x 650	530 x 650
CONNECTION POWER (kW)	0.33	0.33	0.33	0.46	0.5	0.87
VOLTAGE	230V/50-60Hz	230V/50-60Hz	230V/50-60Hz	230V/50-60Hz	230V/50-60Hz	230V/50-60Hz
GROSS WEIGHT (kg)	130	150	150	160	160	160

MARINE REFRIGERATORS

Over many years Porkka has produced and supplied advanced, specialist, marine refrigerators and freezers to galleys around the world.

The robust construction and numerous features make Porkka the ideal equipment to use in a tough working environment.

Features

- Digital temperature display with built-in microprocessor controller and splash proof cover
- Keyboard tamper protection
- Recording of max./min. temperature
- Visual and audible high/low temperature alarm
- Probe failure alarm
- Blocked condenser/high ambient temperature alarm
- Exterior/interior finish in stainless steel grade AISI 304
- Insulation with high density CFC/HCFC free polyurethane
- Hygienic top plate
- 4 pcs powder coated, galvanized steel wire shelves with storm edge, adjustable in increments of 30mm
- 4 pairs stainless steel shelf runners
- Door equipped with marine handle complete with lock, magnetic gasket and heavy-duty hinges
- Efficient and energy saving, hermetic air-cooled CFC/HCFC refrigerant system
- Built-in washable condenser air filter
- Marine stainless-steel legs to accept 9mm deck fixing bolts, height adjustable from 130mm to 205mm
- Electrical supply 230V/50-60Hz or 115V/60Hz
- Heat treated wooden packaging

Optional Features

- Door operated LED light
- Extra shelves as required
- Shorter marine stainless-steel legs, adjustable from 70 to 105mm
- Door operated internal LED light
- Hygienic heavy-duty top plate

	MR 200	MR 300	MR 400	MR 550
TEMPERATURE	+2 - +8°C	+2 - +8°C	+2 - +8°C	+2 - +8°C
AMBIENT TEMPERATURE	+5 - +32°C	+5 - +32°C	+5 - 32°C	+5 - 32°C
EXTERNAL DIMENSIONS W/D/H (mm)	850/750/1140	850/750/1380	850/750/1590	850/750/1900
INTERNAL DIMENSIONS W/D/H (mm)	730/560/580	730/560/740	730/560/950	730/560/1260
VOLUME NET / GROSS (LTR)	205/278	251/340	322/426	429/553
SHELVES	2	2	4	4
CONNECTION POWER 230V 50-60Hz / 115V 60Hz	0.49/0.55	0.49/0.55	0.49/0.55	0.49/0.55
GROSS WEIGHT (kg)	126	131	148	162

	MR 200	MR 300	MR 400	MR 550
TEMPERATURE	-25 - -18°C	-25 - -18°C	-25 - -18°C	-25 - -18°C
AMBIENT TEMPERATURE	+5 - +32°C	+5 - +32°C	+5 - +32°C	+5 - +32°C
EXTERNAL DIMENSIONS W/D/H (mm)	850/750/1140	850/750/1380	850/750/1590	850/750/1900
INTERNAL DIMENSIONS W/D/H (mm)	730/560/580	730/560/740	730/560/950	730/560/1260
VOLUME NET / GROSS (LTR)	205/278	251/340	322/426	429/553
SHELVES	2	2	4	4
CONNECTION POWER 230V 50-60Hz / 115V 60Hz	0.56/0.63	0.56/0.63	0.56/0.63	0.68/0.79
GROSS WEIGHT (kg)	126	131	148	162

MARINE REFRIGERATORS

Porkka specialist marine combination cabinets are the ideal solution where space is limited in smaller galleys, they combine both chiller and freezer sections within the one cabinet. Each section is operated with its own independent refrigeration system.

Features

- Digital temperature display with built-in microprocessor controller and splash proof cover
- Keyboard tamper protection
- Recording of max./min. temperature
- Visual and audible high/low temperature alarm
- Probe failure alarm
- Blocked condenser/high ambient temperature alarm
- Exterior/interior finish in stainless steel grade AISI 304
- Insulation with high density CFC/HCFC free polyurethane
- Hygienic top plate
- 4 pcs powder coated, galvanized steel wire shelves with storm edge, adjustable in increments of 30mm
- 4 pairs stainless steel shelf runners
- Door equipped with marine handle complete with lock, magnetic gasket and heavy-duty hinges
- Efficient and energy saving, hermetic air-cooled CFC/HCFC refrigerant system
- Built-in washable condenser air filter
- Marine stainless-steel legs to accept 9mm deck fixing bolts, height adjustable from 130mm to 205mm
- Electrical supply 230V/50-60Hz or 115V/60Hz
- Heat treated wooden packaging

Optional features

- Door operated LED light
- Extra shelves as required
- Shorter marine stainless-steel legs, adjustable from 70 to 105mm
- Door operated internal LED light
- Hygienic heavy-duty top plate

	MR 300 GW	MR 400 GW	MR 550 GW	MRF 550
TEMPERATURE	+2 - +8°C	+2 - +8°C	+2 - +8°C	+2 - +8°C
AMBIENT TEMPERATURE	+5 - +32°C	+5 - +32°C	+5 - +32°C	+5 - +32°C
EXTERNAL DIMENSIONS W/D/H (mm)	850/750/1380	850/750/1590	850/750/1900	850/750/1900
INTERNAL DIMENSIONS W/D/H (mm)	730/560/740	730/560/950	730/560/1260	730/560/475+525
VOLUME NET / GROSS (LTR)	251/340	322/426	429/553	288(134+152)/480(230+250)
SHELVES	2	4	4 4	
CONNECTION POWER 230V 50-60Hz / 115V 60Hz	0.49/0.55	0.49/0.55	0.49/0.55	1.49/--
GROSS WEIGHT (kg)	141	158	172	162

MARINE REFRIGERATORS

Blast chilling and blast freezing can be a big advantage in most galleys following food preparation to be more efficient, as foods that have been blast chilled can be kept for up to 4 days before re-heating.

Blast freezing, or shock freezing allows food to be rapidly frozen with reduced cell damage, giving foods a better taste and appearance when defrosted.

Food does not lose its appearance, taste or affect the texture. The rapid chilling avoids bacteria growth and reduces the risk of associated health problems.

Features

- Control panel with soft touch buttons and digital display
- Microprocessor controlled blast chilling & freezing
- Selectable soft-/hard-chilling process
- Stainless steel product probe for precise and accurate soft chilling
- Controller with ability to store 8 individual processes for rapid selection
- Automatic holding mode after the blast chilling or blast freezing process has finished
- Visual and audible high/low temperature alarm
- Door open alarm
- Probe failure alarm
- Exterior / Interior finish in stainless steel grade AISI 304
- Insulation with high density CFC/HCFC free polyurethane
- 10 pairs stainless steel shelf runners dimensioned for GN 1/1 containers
- Door equipped with marine handle complete with lock, magnetic gasket and heavy-duty spring hinges
- Efficient, hermetic air-cooled CFC/HCFC refrigerant system
- Marine stainless-steel legs to accept 9mm deck fixing bolts, height adjustable from 130mm to 205mm
- Electrical supply 230V/50-60Hz or 115V/60Hz

Optional features

- Door operated UV-C sterilisation lamp
- Door operated internal LED light
- Extra anti-tilt stainless steel shelf runners as required
- Shorter marine stainless-steel legs, adjustable from 70 to 105mm
- Condensate tray with heater
- Water cooled condenser with valve for connection to a chiller plant system
- Also available for connection to a central cooling refrigeration system
- Heat treated wooden packaging

	FM BC/BF 720
WIDTH (mm)	850
DEPTH (mm)	750
HEIGHT (mm)	2030
BLAST CHILLING CAPACITY*	30kg / 90min
BLAST FREEZING CAPACITY**	70kg / 12hrs
SHOCK FREEZING CAPACITY***	25kg / 2.5hrs
AMBIENT TEMPERATURE	+5 - +32°C
CONNECTION POWER (kW) 230V / 50Hz	1.6
CONNECTION POWER (kW) 115V / 60Hz	1.6
GROSS WEIGHT (kg)	190

* Blast chilling capacities have been calculated using GN1/1 trays 65mm deep with a product thickness of 50mm entering at +70 to +3°C within the stated time period.

** Blast freezing capacities have been calculated using GN1/1-65mm deep trays with a product thickness of 50mm from 0 to -18°C

*** All Porkka appliances meet international standards and requirements for Blast Chilling of food stuffs

MARINE REFRIGERATORS

Designed to be used as both preparation work tables and food storage units Porkka 'Cold Line' marine counters are made for use in busy galleys or food service points on board vessels.

Manufactured from quality components they are durable and long lasting, naturally, the counters are supplied ready for the marine usage and benefit from stainless steel AISI grade 304 bodies both internally and externally.

Features

- Digital temperature display with built-in microprocessor controller
- Recording of max./max. temperature
- Visual high/low temperature alarm
- Probe failure alarm
- Blocked condenser/high ambient temperature alarm
- Exterior/Interior finish in stainless steel grade AISI 304
- Insulation with high density CFC/HCFC free polyurethane
- 2 pcs GN 1/1 dimensioned, powder coated, steel wire shelf, adjustable in increments of 70mm (per door section)
- Door(s) equipped with marine handle complete with lock, magnetic gasket and heavy-duty hinges
- Efficient and energy saving, hermetic air-cooled CFC/HCFC refrigerant system
- Slide-in/out refrigeration cassette (by hand) for easy servicing
- Built-in washable condenser air filter
- Marine stainless-steel legs to accept 9 mm deck fixing bolts, height adjustable (-5mm to +65mm)
- Electrical supply 230V/50, 230V/60Hz or 115V/60Hz

Optional features

- Medium temperature (-5° ... +15°C) and freezer (-25° ... -15°C) models available for counters with a width of 860, 1260 & 1660mm
- Available with environmentally friendly and energy efficient refrigerant R290 (chiller models 230V/50Hz only)
- Also available for connection to a central cooling refrigeration system (chiller models only)
- Module with 2 or 3 GN 1/1 dimensioned drawers, with marine handle complete with lock, magnetic gasket, stainless gasket, stainless steel telescopic runners (chiller models with a width 860, 1260 & 1660mm only)
- Solid stainless-steel base for drawer
- Extra shelves as required
- Shorter, adjustable marine stainless-steel legs for a counter height of 850mm
- Electric-hydraulic or manual crank height adjustment (850 to 1030mm), counter total length +200mm
- Heat treated wooden packaging

	CLM-GNH-1-C	CLM-GNH-1-C-1	CLM-GNH-1-C-1-1	CLM-GBH-1-1-CH-1-1
TEMPERATURE	+2 - +15°C	+2 - +15°C	+2 - +15°C	+2 - +15°C
WIDTH (mm)	860	1260	1660	2060
DEPTH (mm)	650	650	650	650
HEIGHT (mm)	900	900	900	900
CONNECTION POWER (kW) 230V/50Hz, 230V/60Hz	0.25	0.25	0.25	0.35
GROSS WEIGHT (kg)	87	114	144	180

MARINE REFRIGERATORS

Porkka counters can be used a serving equipment with chilled air refrigerated wells to accept GN1/1 containers or smaller multiples thereof. They can also be supplied with sneeze proof gantries with lighting to enhance food display.

Features

- Digital temperature display with built-in microprocessor controller
- Recording of max./min. temperature
- Visual high/low temperature alarm
- Probe failure alarm
- Blocked condenser/high ambient temperature alarm
- Exterior/Interior finish in stainless steel grade AISI 304
- Insulation with high density CFC/HCFC free polyurethane
- GN1/1 dimensioned 210mm deep stainless-steel forced air refrigerated well
- 1pc GN1/1 dimensioned, powder coated, steel wire shelf, adjustable in increments of 70mm (per door section)
- Door(s) equipped with marine handle complete with lock, magnetic gasket and heavy-duty hinges
- Efficient and energy saving, hermetic air-cooled CFC/HCFC refrigerant system
- Slide-in/out refrigeration cassette (by hand) for easy servicing
- Built-in washable condenser air filter
- Marine stainless-steel legs to accept 9mm deck fixing bolts, height adjustable (-5mm to +65mm)
- Electrical supply 230V/50, 230V/60Hz or 115V/60Hz

Optional features

- Available with environmentally friendly and energy efficient refrigerant R290 (230V/50HZ only)
- Also available for connection to a central cooling refrigeration system
- Gantry with sneeze proof canopy and light
- Extra shelves as required
- Divider frame GN1/1, designed to accept multiples of smaller containers sizes
- Drainage for refrigerated well
- Shorter, adjustable marine stainless-steel legs for a counter height of 850mm
- Heat treated wooden packaging

	CLM-GNS-1-C	CLM-GNS-1-C-1	CLM-GNS-1-C-1-1
TEMPERATURE	+2 - +15°C	+2 - +15°C	+2 - +15°C
WIDTH (mm)	860	1260	1660
DEPTH (mm)	650	650	650
HEIGHT (mm)	900	900	900
HEIGHT WITH OPTIONAL GANTRY (mm)	1337	1337	1337
REFRIGERATED WELL (size)	2 x GN 1/1	3 x GN 1/1	4 x GN 1/1
CONNECTION POWER (kW)	0.35	0.35	0.35
230V/50Hz, 230V/60Hz			
GROSS WEIGHT (kg)	104	138	176

MARINE REFRIGERATORS

Porkka 'Cold Line' marine pizza and salad counters are ideal work stations for the preparation of salads, sandwiches and pizzas.

The unit has a refrigerated well with sneeze proof cover which accepts gastronorm containers. They benefit from stainless steel AISI grade 304 bodies both internally and externally.

Features

- Digital temperature display with built-in microprocessor controller
- Recording of max./min. temperature
- Visual high/low temperature alarm
- Probe failure alarm
- Blocked condenser/high ambient temperature alarm
- Exterior/interior finish in stainless steel grade AISI 304
- Insulation with high density CFC/HCFC free polyurethane
- GN dimensioned canted stainless steel refrigerated well at rear top of counter
- 2 pcs GN 1/1 dimensioned, powder coated, steel wire shelf, adjustable in increments of 70mm (per door section)
- Door(s) equipped with marine handle complete with lock, magnetic gasket and heavy-duty hinges
- Efficient and energy saving, hermetic air-cooled CFC/HCFC refrigerant system
- Slide-in/out refrigeration cassette (by hand) for easy servicing
- Built-in washable condenser air filter
- Marine stainless-steel legs to accept 9mm deck fixing bolts, height adjustable (-5mm to +65mm)
- Electrical supply 230V/50, 230V/60Hz or 115V/60Hz

Optional features

- Available with environmentally friendly and energy efficient refrigerant R290 (230V/50Hz only)
- Also available for connection to a central cooling refrigeration system
- Module with 2 or 3 GN 1/1 dimensioned drawers with marine handle complete with lock, magnetic gasket, stainless steel telescopic runners
- Module refrigeration cassette with 1pc GN 1/1 dimensioned drawer incl. marine handle complete with lock, magnetic gasket, stainless steel telescopic runners (models with a width 860 & 1260mm only)
- Solid stainless-steel base for drawer
- Extra shelves as required
- Shorter, adjustable marine stainless-steel legs for a counter height of 850mm
- Electric-hydraulic or manual crank height adjustment (850 to 1030mm), counter total length +200mm
- Heat treated wooden packaging

	CLM P/S 1 C	CLM P/S 1 C 1	CLM P/S 1 CH 11	CLM P/S 1 1 CH 11
TEMPERATURE	+2 – +15°C	+2 - +15°C	+2 - +15°C	+2 - +15°C
WIDTH (mm)	860	1260	1660	2060
DEPTH (mm)	650	650	650	650
HEIGHT (mm)	970	970	970	970
CONNECTION POWER (kW) 230V/50Hz, 230V/60Hz	0.25	0.25	0.35	0.35
GROSS WEIGHT (kg)	104	138	176	185

MARINE REFRIGERATORS

The 'Display Line' is an attractive impulse sales merchandiser for use on ferries and roll-on, roll-off vessels.

Display Line can be placed in a food serving line or cafeterias and can store and display sandwiches, snacks and beverages in temperature-controlled conditions that will encourage potential customers to buy.

Features

- Digital temperature display with built-in microprocessor controller
- Recording of max./min. temperature
- Visual high/low temperature alarm
- Probe failure alarm
- Blocked condenser/high ambient temperature alarm
- Exterior/Interior finish in stainless steel grade AISI 304
- Insulation with high density CFC/HCFC free polyurethane
- Efficient and energy saving, hermetic air-cooled CFC/HCFC refrigerant system
- Slide-in/out refrigeration cassette (by hand) for easy servicing
- Built-in washable condenser air filter
- Marine stainless-steel legs to accept 9mm deck fixing bolts, height adjustable (-5mm to +65mm)
- Electrical supply 230V/50Hz or 230V/60Hz

Display section

- Self-service version with light able flaps on the customers side
- Rear service version with a fixed sneeze guard on the customer side
- Glass sliding doors with lock for re-filling on the vendor's side for self-service & rear service versions
- Self-service version with 2-sided self-service lift able flaps
- 2 or 3 LED light illuminated stainless steel shelves (top shelf of the tree-shelf model is not chilled)
- LED light illuminated GN1/1 dimensioned 210mm deep stainless-steel forced air refrigerated bottle well
- Stainless steel bottom plates for the bottle well, adjustable to different levels and angles
- Forced air ventilation to ensure even temperatures

Storage section

- Door equipped with marine handle
- Complete with lock, magnetic gasket and heavy-duty hinges
- 1pc GN1/1 powder coated, galvanized steel wire shelf, adjustable in increments of 70mm

Optional features

- Available with environmentally friendly and energy efficient refrigerant R290 (230V/50Hz only)
- Also available for connection to a central cooling refrigeration system
- Sliding doors for table showcase models
- Can be supplied in neutral display only, for mounting on an existing counter or table top
- Tray slides for customer service can be fitted as required
- Shorter, adjustable marine stainless-steel legs for a counter height of 850mm
- Heat treated wooden packaging

MODEL DLM	SHELVING 2	MODEL VARIANTS CL	SM	BH	DS	TM
Display Line Marine	Two shelves	Self-service model with lift able flaps cooled display part and cabinet/cabinets	Model with a fixed sneeze guard, for rear service cooled display part and cabinet/cabinets	Tray windows on the client's side self-service model with lift able flaps cooled display part and cabinet/cabinets	2-sided display part with lift able flaps each side, cooled display part and cabinet/cabinets	Turned display part with lift able flaps cooled display part and cabinet/cabinets

Three shelves,
neutral top shelf

	DLM802	DLM803	DLM1202	DLM1203	DLM1602	DLM1603
LENGTH (mm)	800	800	1200	1200	1600	1600
WIDTH (mm)	650	650	650	650	650	650
HEIGHT (mm)	1500	1690	1500	1690	1500	1690
CONNECTION POWER (kW)	0.45	0.45	0.45	0.45	0.6	0.6
VOLTAGE (V)	230V/50Hz 230V/60Hz	230V/50Hz 230V/60Hz	230V/50Hz 230V/60Hz	230V/50Hz 230V/60Hz	230V/50Hz 230V/60Hz	230V/50Hz 230V/60Hz
TEMPERATURE AREA (°C)						
DISPLAY	+6 - +15	+6 - +15	+6 - +15	+6 - +15	+6 - +15	+6 - +15
COUNTER	+4 - +12	+4 - +12	+4 - +12	+4 - +12	+4 - +12	+4 - +12

COLD LINE MARINE COUNTERS FOR BEVERAGE STORAGE

Porkka 'Cold Line' marine beverage counters are ideal for serving and storing drinks at optimum serving temperature.

Manufactured from quality components they are durable and long lasting; the counters are supplied ready for the marine usage and benefit from stainless steel AISI grade 304 bodies both internally and externally.

Features

- Digital temperature display with built-in microprocessor controller
- Recording of max./min. temperature
- Visual high/low temperature alarm
- Probe failure alarm
- Blocked condenser/high ambient temperature alarm
- Exterior/Interior finish in stainless steel grade AISI 304
- Insulation with high density CFC/HCFC free polyurethane
- Module(s) with 2 drawers, marine handle complete with lock, magnetic gasket, stainless steel telescopic runners and solid stainless-steel base
- Slide-in/out refrigeration cassette (by hand) for easy servicing with 1 drawer incl. marine handle complete with lock, magnetic gasket, stainless steel telescopic runners
- Efficient and energy saving, hermetic air-cooled CFC/HCFC refrigeration system
- Built-in washable condenser air filter
- Marine stainless-steel legs to accept 9mm deck fixing bolts, height adjustable (-5mm to +65mm)
- Electrical supply 230V/50, 230V/60Hz or 115V/60Hz

Optional features

- Available with environmentally friendly and energy efficient refrigerant R290 (230V/50Hz only)
- Also available for connection to a central cooling refrigeration system
- Extra shelves as required
- Module door, equipped with marine handle complete with lock, magnetic gasket and heavy-duty hinges
- Shorter, adjustable marine stainless-steel legs for a counter height of 850mm
- Heat treated wooden packaging

	CLM-D-2-CD	CLM-D-2-CD-2	CLM-D-2-CD-2-2	CLM-D-2-2-CD-2-2
TEMPERATURE	+2 - +15°C	+2 - +15°C	+2 - +15°C	+2 - +15°C
WIDTH (mm)	860	1260	1660	2060
DEPTH (mm)	650	650	650	650
HEIGHT (mm)	970	970	970	970
CONNECTION POWER (KW) 230V/50Hz, 230V/60Hz	0.25	0.25	0.25	
GROSS WEIGHT (KG)	107	141	175	215

COLD LINE MARINE COUNTERS FOR BEVERAGE STORAGE

Counters with refrigerated well, for the display and serving bottles in a serving line but keeping them at the correct temperature.

Features

- Digital temperature display with built-in microprocessor controller
- Recording of max./min. temperature
- Visual high/low temperature alarm
- Probe failure alarm
- Blocked condenser/high ambient temperature alarm
- Exterior/Interior finish in stainless steel grade AISI 304
- Insulation with high density CFC/HCFC free polyurethane
- Top plate with Integrated, air cooled 160mm deep well for bottles
- Door(s) equipped with marine handle complete with lock, magnetic gasket and heavy-duty hinges
- Efficient and energy saving, hermetic air-cooled CFC/HCFC refrigerant system
- Slide-in/out refrigeration cassette (by hand) for easy servicing
- Built-in washable condenser air filter
- Marine stainless-steel legs to accept 9mm deck fixing bolts, height adjustable (-5mm to +65mm)
- Electrical supply 230V/50, 230V/60Hz or 115V/60Hz

Optional features

- Available with environmentally friendly and energy efficient refrigerant R290 (230V/50Hz only)
- Also available for connection to a central cooling refrigeration system
- Shorter, adjustable marine stainless-steel legs for a counter height of 850mm
- Heat treated wooden packaging

	CLMBS-1-C	CLMBS-1-C-1	CLMBS-1-C-1-1
TEMPERATURE	+2 - +15°C	+2 - +15°C	+2 - +15°C
WIDTH (mm)	860	1260	1660
DEPTH (mm)	650	650	650
HEIGHT (mm)	900	900	900
REFRIGERATED WELL WIDTH (mm)	720	1120	1520
DEPTH (mm)	508	508	508
HEIGHT (mm)	160	160	160
CONNECTION POWER (KW) 230V/50Hz, 230V/60Hz	0.25	0.25	0.25
GROSS WEIGHT (KG)	72	93	144

COLD LINE MARINE COUNTERS FOR BEVERAGE STORAGE

Ideal for bar work, this counter is supplied with a well for the storage of ice cubes and bottles. In addition, there is refrigerated storage for bottles or cans in the lower compartments, keeping drinks at the ideal serving temperature.

Features

- Digital temperature display with built-in microprocessor controller
- Recording of max./min. temperature
- Visual high/low temperature alarm
- Probe failure alarm
- Blocked condenser/high ambient temperature alarm
- Exterior/Interior finish in stainless steel grade AISI 304
- Insulation with high density CFC/HCFC free polyurethane
- Top plate with air cooled well for both ice or bottles
- Module(s) with 2 drawers, marine handle complete with lock, magnetic gasket, stainless steel telescopic runners and solid stainless-steel base
- Efficient and energy saving, hermetic air-cooled CFC/HCFC refrigerant system
- Slide-in/out refrigeration cassette (by hand) for easy servicing
- Built-in washable condenser air filter
- Marine stainless-steel legs to accept 9mm deck fixing bolts, height adjustable (-5mm to +65mm)
- Electrical supply 230V/50, 230V/60Hz or 115V/60Hz

Optional features

- Available with environmentally friendly and energy efficient refrigerant R290 (230V/50Hz only)
- Also available for connection to a central cooling refrigeration system
- Module door, equipped with marine handle complete with lock, magnetic gasket and heavy-duty hinges
- Drainage for air cooled well
- Shorter, adjustable marine stainless-steel legs for a counter height of 850mm
- Heat treated wooden packaging

	CLMB1S-2-C	CLMB1S-2-2-C	CLMB1S-2-2-2-C	CLMB1S-2-2-2-2-C
TEMPERATURE	+2 - +15°C	+2 - +15°C	+2 - +15°C	+2 - +15°C
WIDTH (mm)	860	1260	1660	2060
DEPTH (mm)	650	650	650	650
HEIGHT (mm)	900	900	900	900
REFRIGERATED WELL WIDTH (mm)	305	305	305	305
DEPTH (mm)	510	510	510	510
HEIGHT (mm)	200	200	200	200
CONNECTION POWER (KW) 230V/50Hz, 230V/60Hz	0.25	0.25	0.25	0.25
GROSS WEIGHT (KG)	99	133	166	220

COLD LINE MARINE COUNTERS FOR BEVERAGE STORAGE

This counter is supplied with ice well and angled refrigerated bottle holder to store spirit and or wine bottles, keeping them at a good temperature for serving. This arrangement can really speed up bar service during busy periods, in addition there is ample storage within the counter to hold chilled beverages for replenishment.

Features

- Digital temperature display with built-in microprocessor controller with splash proof cover
- Recording of max./min. temperature
- Visual high/low temperature alarm
- Probe failure alarm
- Blocked condenser/high ambient temperature alarm
- Exterior/interior finish in stainless steel grade AISI 304
- Insulation with high density CFC/HCFC free polyurethane
- Top plate with Integrated, angled, air cooled bottle well and insulated well with drain for both ice or bottles
- Module(s) with 2 drawers, marine handle complete with lock, magnetic gasket, stainless steel telescopic runner and solid stainless-steel base
- Efficient and energy saving, hermetic air-cooled CFC/HCFC refrigerant system
- Slide-in/out refrigeration cassette (by hand) for easy servicing
- Built-in washable condenser air filter
- Marine stainless-steel legs to accept 9mm deck fixing bolts, height adjustable (-5mm to +65mm)
- Electrical supply 230V/50, 230V/60Hz or 115V/60Hz

Optional features

- Available with environmentally friendly and energy efficient refrigerant R290 (230V/50Hz only)
- Also available for connection to a central cooling refrigeration system
- Module door, equipped with marine handle complete with lock, magnetic gasket and heavy-duty hinges
- Shorter, adjustable marine stainless-steel legs for a counter height of 850mm
- Heat treated wooden packaging

	CLMBS-2-C	CLMB2S-2-2-C	CLMB2S-2-2-2-C	CLMB2S-2-2-2-2-C
TEMPERATURE	+2 - +15°C	+2 - +15°C	+2 - +15°C	+2 - +15°C
WIDTH (mm)	860	1260	1660	2060
DEPTH (mm)	650	650	650	650
HEIGHT (mm)	900	900	900	900
REFRIGERATED ANGLED WELL WIDTH (mm)	700	1100	1500	1900
DEPTH (mm)	155	155	155	155
HEIGHT (mm)	120	120	120	120
REFRIGERATED WELL SIZE WIDTH (mm)	300	300	300	300
DEPTH (mm)	300	300	300	300
HEIGHT (mm)	220	220	220	220
CONNECTION POWER (kw) 230V/50Hz, 230V/60Hz	0.25	0.25	0.25	0.25
GROSS WEIGHT (kg)	99	133	166	220

HOT LINE HEATED COUNTERS

The Porkka 'Hot Line' series of heated counters are ideal for both the storage and serving of pre-cooked foods. The modular construction is versatile and allows a galley to be designed to operate to its maximum efficiency.

Made from the highest quality materials and components such as stainless-steel grade AISI 304 internally and externally, the equipment is easy to clean and are built to last.

Features

- Exterior / Interior finish in stainless steel grade AISI 304
- Insulation with high density CFC/HCFC free polyurethane
- Thermostatic controlled, highly efficient air forced heating cassette(s)
- Door(s) equipped with marine handle complete with lock, magnetic gasket and heavy-duty hinges
- 1 pc GN 1/1 dimensioned, powder coated, steel wire shelf, adjustable in increments of 70mm (per door section)
- Marine stainless-steel legs to accept 9mm deck fixing bolts, height adjustable (-5mm to +65mm)
- Electrical supply 230V/50-60Hz or 115V/60Hz

Optional features

- Heated top-plate
- Gantry with sneeze proof canopy, optional fitted with infrared heating lamps
- Step-less power adjustment for infrared heating lamps
- Module with 2 pcs GN 1/1 dimensioned drawers with marine handle complete with lock, magnetic gasket, stainless steel telescopic runners
- Divider frame GN 1/1 for drawers, designed to accept multiples of smaller containers sizes
- Extra shelves as required
- Shorter, adjustable marine stainless-steel legs for a counter height of 850mm
- Heat treated wooden packaging

	HLM86NT11	HLM126NT11	HLM166NT1111	HLM86HT11	HLM126HT111	HLM166HT1111
TEMPERATURE RANGE CUPBOARD °C	+30 - +75	+30 - +75	+30 - +75	+30 - +75	+30 - +75	+30 - +75
TEMPERATURE RANGE TABLE TOP °C				+30 - +70	+30 - +70	+30 - +70
WIDTH (mm)	860	1260	1660	860	1260	1660
DEPTH (mm)	650	650	650	650	650	650
HEIGHT (mm)	900	900	900	900	900	900
CONNECTION POWER (kw) 230V/50Hz – 60Hz	0.3	0.3	0.6	0.55	0.8	1.35
GROSS WEIGHT (kg)	80	100	125	85	105	130

HOT LINE HEATED COUNTERS

Porkka hot line marine counters can also be supplied with temperature-controlled Bain-Marie's. Designed to accept GN 1/1 containers or smaller multiple modules they are ideal for food service areas.

Features

- Exterior/Interior finish in stainless steel grade AISI 304
- Insulation with high density CFC/HCFC free polyurethane
- Top plate with seamless integrated GN 1/1 dimensioned Bain-Marie with a depth of 200mm
- Divider frame GN 1/1 for Bain-Marie, designed to accept multiples of smaller containers sizes
- Drain with valve for Bain-Marie
- Thermostatic controlled, highly efficient air forced heating cassette(s)
- Door(s) equipped with marine handle complete with lock, magnetic gasket and heavy-duty hinges
- 1 pc GN 1/1 dimensioned, powder coated, steel wire shelf, adjustable increments of 70mm (per door section)
- Marine stainless-steel legs to accept 9mm deck fixing bolts, height adjustable (-5mm to +65mm)
- Electrical supply 230V/50-60Hz or 115V/60Hz

Optional features

- Gantry with sneeze proof canopy, optional fitted with infrared heating lamps
- Step-less power adjustment for infrared heating lamps
- Manual operated water filling for the Bain-Marie
- Stainless steel cover plate GN 1/1 for Bain-Marie
- Module with 2 pcs GN1/1 dimensioned drawers with marine handle complete with lock, magnetic gasket, stainless steel telescopic runners
- Divider frame GN 1/1 for drawer, designed to accept multiples of smaller containers sizes
- Extra shelves as required
- Shorter, adjustable marine stainless-steel legs for a counter height of 850mm
- Heat treated wooden packaging

	HLM86BM11	HLM126BM111	HLM166BM1111
TEMPERATURE RANGE CUPBOARD °C	+30 - +75	+30 - +75	+30 - +75
TEMPERATURE RANGE BAIN-MARIE °C	+30 - +90	+30 - +90	+30 - +90
WIDTH (mm)	860	1260	1660
DEPTH (mm)	650	650	650
HEIGHT (mm)	900	900	900
BAIN-MARIE (SIZE)	2 x GN 1/1	3 x GN 1/1	4 x GN 1/1
CONNECTION POWER (kW) 230V / 50Hz – 60Hz	1.4	1.95	2.8
GROSS WEIGHT (kg)	85	105	130

HOT LINE HEATED COUNTERS

Porkka hot line marine counters can also be supplied with heated top plate's and temperature-controlled Bain-Marie's. They are ideal for serving of pre-cooked foods.

Features

- Exterior/Interior finish in stainless steel grade AISI 304
- Insulation with high density CFC/HCFC free polyurethane
- Heated top plate with a seamless integrated saucing Bain-Marie in the rear, dimensioned to accept GN 1/4 or GN 1/6-200 containers
- Drain with valve for Bain-Marie
- Thermostatic controlled, highly efficient air forced heating cassette(s)
- Door(s) equipped with marine handle complete with lock, magnetic gasket and heavy-duty hinges
- 1pc GN 1/1 dimensioned, powder coated, steel wire shelf, adjustable in increments of 70mm (per door section)
- Marine stainless-steel legs to accept 9mm deck fixing bolts, height adjustable (-5mm to +65mm)
- Electrical supply 230V/50-60Hz or 115V/60Hz

Optional features

- Module with 2 pcs GN1/1 dimensioned drawers with marine handle complete with lock, magnetic gasket, stainless steel telescopic runners
- Extra shelves as required
- Shorter, adjustable marine stainless-steel legs for a counter height of 850mm
- Heat treated wooden packaging

	HLM86BM/HT11	HLM126BM/HT111	HLM166BM/HT1111
TEMPERATURE RANGE CUPBOARD °C	+30 - +75	+30 - +75	+30 - +75
TEMPERATURE RANGE TABLE TOP °C	+30 - +70	+30 - +70	+30 - +70
TEMPERATURE RANGE BAINMARIE °C	+30 - +90	+30 - +90	+30 - +90
WIDTH (mm)	860	1260	1660
DEPTH (mm)	650	650	650
HEIGHT (mm)	900	900	900
BAIN-MARIE (SIZE)	2 x GN 1/1	3 x GN 1/1	4 x GN 1/1
CONNECTION POWER (kW) 230V / 50Hz – 60Hz	1.1	1.9	1.9
GROSS WEIGHT (kg)	85	105	130

HOT LINE HEATED COUNTERS

Hot Line heated plate dispensers, designed to be incorporated in to serving lines with Porkka marine hot or cold equipment, can be supplied heated or neutral

Features

- Exterior / Interior finish in stainless steel grade AISI 304
- Thermostatic controlled, highly efficient heaters
- Innovative designed with self-balanced plate or plate dispensing
- Available in two versions for plates with a diameter of 220 to 280mm (capacity ca. 100 pcs) and for plates with a diameter of 280 to 320mm (capacity ca. 50 pcs)
- Manual adjustable for the differential plate sizes
- Marine stainless-steel legs to accept 9mm deck fixing bolts, height adjustable (-5mm to +65mm)
- Electrical supply 230V/50-60Hz or 115V/60Hz

Optional features

- Available as neutral dispensers
- Shorter, adjustable marine stainless-steel legs for a counter height of 850mm
- Heat treated wooden packaging

	HLM46PH28	HLM46PN28	HLM46PH32	HLM46PN32
TEMPERATURE	+30 - +70°C	NEUTRAL	+30 - +70°C	NEUTRAL
WIDTH (mm)	460	460	460	460
DEPTH (mm)	650	650	650	650
HEIGHT (mm)	900	900	900	900
CYLINDER FOR PLATES	2	2	1	1
SUITABLE FOR PLATES Ømm	220-280	220-280	280-320	280-320
CONNECTION POWER 230V 50-60Hz	1.4	-	0.7	-
GROSS WEIGHT (kg)	60	58	60	58

NON-REFRIGERATED COUNTERS

Non-refrigerated counters for the storage of ambient produce or utensils, can be supplied with or without doors to make equipment lines

Features

- Exterior / Interior finish in stainless steel grade AISI 304
- Insulation with high density CFC/HCFC free polyurethane (bottom)
- Top plate finish in stainless steel grade AISI 304 (with 1,25mm zinc electroplating support plate)
- 1 pc stainless steel shelf, adjustable increments of 70mm
- Marine stainless-steel legs to accept 9mm deck fixing bolts, height adjustable (-5mm to +65mm)

Optional features

- Door(s) equipped with magnetic gasket, heavy-duty hinges and handle complete with lock
- Extra shelves as required
- Shorter, adjustable marine stainless-steel legs for a counter height of 850mm
- Heat treated wooden packaging

	NLM65NT400	NLM65NT600	NLM65NT800	NLM65NT1200
WIDTH (mm)	400	600	800	1200
DEPTH (mm)	650	650	650	650
HEIGHT (mm)	900	900	900	900
GROSS WEIGHT (kg)	30	35	50	65

	NLM65NT400D WITH DOORS	NLM65NT600D WITH DOORS	NLM65NT800D WITH DOORS	NLM65NT1200D WITH DOORS
WIDTH (mm)	400	600	800	1200
DEPTH (mm)	650	650	650	650
HEIGHT (mm)	900	900	900	900
GROSS WEIGHT (kg)	30	40	60	

NON-REFRIGERATED COUNTERS

Non-refrigerated counters for the storage of ambient produce or utensils, can be supplied with or without doors to make equipment lines

Features

- Exterior / Interior finish in stainless steel grade AISI 304
- Insulation with high density CFC/HCFC free polyurethane (bottom)
- Top plate finish in stainless steel grade AISI 304 (with 1,25mm zinc electroplating support plate)
- 1 pc stainless steel shelf, adjustable increments of 70mm
- Marine stainless-steel legs to accept 9mm deck fixing bolts, height adjustable (-5mm to +65mm)

Optional features

- Door(s) equipped with magnetic gasket, heavy-duty hinges and handle complete with lock
- Extra shelves as required
- Shorter, adjustable marine stainless-steel legs for a counter height of 850mm
- Heat treated wooden packaging

	NLM65NT400	NLM65NT600	NLM65NT800	NLM65NT1200
WIDTH (mm)	400	600	800	1200
DEPTH (mm)	650	650	650	650
HEIGHT (mm)	900	900	900	900
GROSS WEIGHT (kg)	30	35	50	65

	NLM65NT400D WITH DOORS	NLM65NT600D WITH DOORS	NLM65NT800D WITH DOORS	NLM65NT1200D WITH DOORS
WIDTH (mm)	400	600	800	1200
DEPTH (mm)	650	650	650	650
HEIGHT (mm)	900	900	900	900
GROSS WEIGHT (kg)	30	40	60	

Over several years Porkka have developed a new revolutionary food hold unit, that has been designed to store pre-cooked foods, for hours on end.

The principle is to add humidity combined with heat and forced air circulation, this has the effect of neutralising the drying out of products that would happen in standard hot cupboards. Many have already been supplied and are in daily use both on military and merchant vessels.

Features

- Adjustable digital temperature and humidity controls
- External and internal finish in stainless steel AISI grade 304
- Designed to accept GN 1/1 containers or smaller multiples
- Lockable marine door
- Insulation with high density CFC/HCFC free polyurethane
- Easy to change silicon door gaskets
- Doors supplied with 2 GN1/1 shelves
- Can be supplied with neutral or heated plating tops
- Optional GN dimensioned Bain Marie with drain which is temperature adjustable supplied with stainless steel GN frame with dividers to accept multiple GN dimensioned containers
- Available also with heated top plate and saucing Bain Marie
- Marine stainless-steel legs to accept 9mm deck fixing bolts, height adjustable (-5 to +65mm)
- Three width options 860, 1260 and 1660mm available
- Electrical supply 230V/50-60Hz

Optional features

- Sneeze proof gantry with over shelf
- Gantries available with infra-red heating lights
- Infrared light power adjustment
- Food temperature probe
- Bain Marie water filling by mains connection

MODELS	AVAILABLE IN THREE SIZES
HLD-NT – with neutral worktop	860(w) x 650(d) x 900(h)mm. One full sized door, one door under control panel
HLD-HT – with heated workshop	1260(w) x 650(d) x 900(h)mm. Two full sized door, one door under control panel
HLD-BM – with Bain-Marie	1660(w) x 650(d) x 900(h)mm. three full sized door, one door under control panel
HLD-BM/HT – with saucing bain-marie and heated worktop	Electrical supply 230V/50-60Hz, single phase 13amp supply is required

MARINE PHARMACY REFRIGERATORS

Porkka marine pharmacy refrigerators are the optimum choice of storage of critical temperature medicines and drugs. Equipped with easy to read digital temperature displays, the cabinets have fully automatic operation including defrosting.

Features

- Digital temperature display with built-in microprocessor controller
- Real time clock with date and time display
- Keyboard tamper protection
- Visual and audible high/low temperature alarm
- Probe failure alarm
- Potential free alarm contact for connection to a Building Management System
- TTL-Mod Bus communication port (RS 485 with optional converter)
- Recording of alarms max./min. temperature with date and time
- Exterior/Interior finish in stainless steel grade AISI 304
- Insulation with high density CFC/HCFC free polyurethane
- Shelves and door shelves made from transparent plastic
- Door equipped with lock, magnetic gasket
- Efficient and energy saving, hermetic air-cooled CFC/HCFC refrigerant system
- Electrical supply 230V/50Hz, 230V/60Hz or 115V/60Hz

Optional features

- Extra shelves, door shelves as required
- Door open alarm
- Real-time temperature data logging with download to USB facility, optional with battery back up
- Shorter marine stainless-steel legs, adjustable from 70 to 105mm
- Coded lock for limited personal access
- Additional thermo mass probe connected to the controller
- 8mm sleeved access port for remote monitoring
- Door operated internal LED light
- Heat treated wooden packaging

	MMC70	MMC180	MMC300
TEMPERATURE	+2 - +15°C	+2 - +15°C	+2 - +15°C
WIDTH (mm)	595	595	595
DEPTH (mm)	480+25*	480+25*	480+25*
HEIGHT (mm)	720/900**	1300	2000
INTERNAL WIDTH (mm)	495	495	495
INTERNAL DEPTH (mm)	360	360	36
INTERNAL HEIGHT (mm)	495	940	780+780
USABLE NET VOLUME (LTR)	75	130	110+110
TOTAL VOLUME (LTR)	95	170	143+143
SHELVES	2	5	8
DOOR SHELVES	2	5	8
CONNECTION (kW)	0.15	0.19	0.19
VOLTAGE	230V/50Hz – 60Hz	230V / 50Hz – 60Hz	230V / 50Hz – 60Hz
GROSS WEIGHT	55	70	120

ICE MAKING MACHINES

Porkka automatic ice making machines are ideal for use on various types of marine vessels.

Cube ice predominantly used for bar supply, produce ice using a positive spray system and will therefore work during relatively heavy pitch and roll during a voyage.

Flake ice is an essential for salad bar displays and will also be used in galleys during various food production processes such as blanching, it can also be used in the bar area to serve attractive cocktails.

Features

- Stainless steel bodywork AISI 304 with one-piece insulated storage bin
- Spray system (MKL)
- Belt system (MKF)
- Automatic production cycle (MKL) Electronic controlled production (MKF)
- Built-in cleaning system (MKL)
- Low power and water consumption
- Crystal clear, hygienic and compact ice cubes with the size of Ø 27 x 32mm (MKL)
- Hygienic and dry flake ice with a temperature of -0.5°C (MKF)

FLAKE ICE MACHINE

	KF45		KF85		KF145	
AIR COOLED / WATER COOLED	A	W	A	W	A	W
PRODUCTION Kg / 24hr	40	42	80	83	135	141
WIDTH (mm)	345		485		680	
DEPTH (mm)	520		586		588	
HEIGHT (mm)(feet)	610 + (25)		720 + (140)		890 + (140)	
BIN STORAGE (Kg)	10		25		42	
CONNECTION POWER (W)	410		520		590	
GROSS WEIGHT (Kg)	41		62		76	
VOLTAGE	230V / 50Hz		230V / 50Hz		230V / 50Hz	

CUBE ICE MACHINE

	MKL22		MKL32		MKL42	
AIR COOLED / WATER COOLED	A	W	A	W	A	W
PRODUCTION Kg / 24hr	24	25	30	31	40	42
WIDTH (mm)	345		417		495	
DEPTH (mm)	460		531		573	
HEIGHT (mm)(feet)	588 + (25)		654 + (25)		705 + (140)	
BIN STORAGE (Kg)	65		11		17	
CONNECTION POWER (W)	350		420		455	
GROSS WEIGHT (Kg)	32		43		59	
VOLTAGE	230V / 50Hz		230V / 50Hz		230V / 50Hz	

COLD AND FREEZER ROOMS

Porkka offer a large range of modular step-in/walk-in cold and freezer rooms. Supplied in flat pack format, they are easy and simple to install and are complete with cooling unit.

Specialist marine cantilevered wall mounted shelving is also supplied, which has a storm lip to prevent products falling, when there is pitch and roll.

Flooring, if selected, is finished with a non-slip stainless steel surface.

Features

- Produced from modular CFC/HCFC-free polyurethane insulated panels which are moulded with male / female joints and held by eccentric action cam-locks, giving great all-round strength
- Visible exterior surfaces of the panels are coated with durable scratch resistant polyester
- Insulation thickness 80mm with excellent thermal efficiency, which is CFC/HCFC free Floors 80mm insulated and have a strong marine plywood surface, finished with stainless steel. Load limit max. 40 KN/m² or max. 1,0 KN/per 40mm castor
- Semi-rebated doors supplied with heavy duty hinges and a lockable door handle with emergency release which overrides lock on all occasions
- 4 tier fully adjustable shelving is supplied for either 2 or 3 walls depending on model selected. Shelf plates are made of heavy duty, easy to clean ABS-plastic
- Specialist built-in corner mounted refrigeration equipment
- Digital temperature display with built-in microprocessor controller
- Low temperature protection to prevent possible freezing of products
- Door open alarm
- Visual and audible high/low temperature alarm
- Remote alarm contact for connection to a Building Management System

Optional features

- Stainless steel grade AISI 304
- Real-time temperature data logging with download to USB facility, optional with battery back-up
- Optional insulation thickness of 100mm for extremely cold/warm environments
- Extra shelving levels if requires

	MCR 1515	MCR 1818	MCR 2121	MCR 2424
TEMPERATURE	+2 - +12°C	+2 - +12°C	+2 - +12°C	+2 - +12°C
CONNECTION POWER 230V 50-60Hz	0.72	0.72	0.72	0.72

	MCR 1515	MCR 1818	MCR 2121	MCR 2424
TEMPERATURE	-22 - -18°C	-22 - -18°C	-22 - -18°C	-22 - -18°C
CONNECTION POWER 230V 50-60Hz	1.33	1.33	1.33	1.33

	MCR/MFR 1515	MCR/MFR 1818	MCR/MFR 2121	MCR/MFR 2424
AMBIENT TEMPERATURE	+5 - +32°C	+5 - +32°C	+5 - +32°C	+5 - +32°C
EXTERNAL DIMENSIONS W/D/H (mm)	1500/1500/2100	1800/1800/2100	2100/2100/2100	2400/2400/2100
INTERNAL DIMENSIONS W/D/H (mm)	1340/1340/1940	1640/1640/1940	1940/1940/1940	2240/2240/1940
INSULATION (mm)	80	80	80	80
VOLUME (m ³)	3.48	5.22	7.3	9.73
SHELVES (TIERS)	4	4	4	4
SHELF DEPTH (mm)	398/488	398/488	398/488	398/488
SHELF SURFACE (m ²)	3.3	5.9	7.9	9.4



Section R

Valves and controls



Valves and Controls

Here at Flynn Refrigeration, we can supply a wide range of high-performing valves that are used within the marine industry. To enquire or request a quotation, please contact our team of specialists.

Quick Closing Valves

We can supply a wide range of quick closing valves, that are released manually, by hydraulic fluid or by pneumatic signal. Our range of quick closing valves have integrated fire release safety.

Options include:

- Microswitch for indication of position
- Available flange drilling: ASNI150

Other requirements including dimensions and materials are available on request. Please contact our specialists for more information regarding Quick Closing Valves.

Check Valves

We can offer a wide range of low-cost check valves that are made of plastic or metal, including:

- Non-closable check valve – straight type with female screwed ends, screwed bonnet, metal sealing and spring – suitable for horizontal and vertical (upward flow) installation
- Check valve with female screwed ends – suitable for vertical installation and for use with liquid, steam and gases that do not attack the integral material
- Y-type check valves
- Face to face check valves with stainless steel trim
- Wafer-type check valves
- Duo disc, wafer-type check valves (multi-flange)
- Double disc, wafer-type check valves, available in a range of ratings and flange standards

Ball valves

We can supply a wide variety of marine ball valves, including those that are suitable for use with liquids, steam and gases that do not attack the integral material:

- Ball valve with female threaded ends (full bore) – also available for use with water, steam, oil and compressed air
- Two-piece ball valve (full bore)
- Three-piece, bolted ball valve (full bore) with top flange
- Two-piece, heavy duty valve (full bore) face to face
- One-piece ball valve and stem (full bore)

Gate Valves

We can offer a variety of gate valves, used to permit or prevent the flow of liquids. Our range includes:

- Gate valves with female threaded ends and secured bonnet – suitable for use with liquids, steam and gases that do not attack the integral material
- Gate valves with flanged ends and secured bonnet – suitable for use with liquids, steam and gases that do not attack the integral material
- Face to face gate valves with drain plug – suitable for use with water, steam and oil
- Face to face gate valves with flexible disc – suitable for use with liquids that do not attack the integral material
- Face to face gate valves – suitable for use with liquids and gases that do not attack the integral material
- Face to face gate valves with indicator – suitable for use with liquids that do not attack the integral material



Tank Vent Check Valves

Tank vent check valves are used on all ships, in order to ventilate tanks onboard, such as ballast tanks, fresh water tanks, lube oil tanks and fuel tanks.

According to the international load line convention of 1966, all tanks aboard ships are to be protected from penetration of seawater. In our range of tank vent check valves, we also offer a valve for ventilating liquid mud tanks, to prevent mud from entering the valve head. A swing check valve on the side of the valves allows for draining of the mud in case of overfilling.

It is optional to order the tank vent check valves with flame, bug or rat screens. A flame screen will prevent burning or glowing from particles entering the tank, whilst a bug or rat screen will prevent bugs, rats or other pests.

Fire Valves

Fire valves (designed as fire safety shut-off valves) are for use on oil-burning equipment. We can supply a range of fire valves to suit many requirements:

- Straight-type with bolted bonnet and soft disc sealing – for use with water (max temp 80°C)
- Angle-type with bolted bonnet and soft disc sealing – for use with water (max temp 80°C)

Butterfly Valves

Our range of marine butterfly valves are high performing and available in a variety of specifications, including Wafer-type, Lug-type and Double Flanged. They are maintenance free, easy to install and operate, and require minimum installation space.

These common valves can be used in a range of applications on board.

Storm Valves

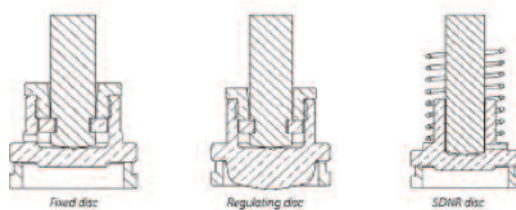
Storm valves, typically used for grey water and septic tanks, are self-closing valves and are available to suit varying temperatures between -10°C to +60°C.

We can supply a range of face to face storm valves, which can be installed in a variety of settings. Most face to face storm valves, which can be installed in a variety of settings. Most face to face storm valves have an optional indicator and are suitable for discharge of sewage water.

Globe/SDNR Valves

Globe valves are used for regulation of flow in a pipe line. We can offer a wide range of globe valves, with three types of discs:

- Fixed disc, for basic shut off applications
- Regulating disc, with a spherical shape that makes it more suitable for regulating applications
- Screw down, non-return disc (SDNR), with manual shutoff option. The SDNR disc is available with or without spring, to give more options in terms of functions and mounting positions.



The following globe valves are available:

- Screw-down, straight type with female screwed ends, screwed and secured bonnet and metal sealing (SDNR disc)
- Y-type globe valves with secured bonnet (SDNR disc) – suitable for use with liquids, steam and gases that do not attack the integral material
- Face to face globe valve with PTFE sealing (SDNR disc / regulating disc)
- Face to face global valve with stainless steel trim (SDNR disc / regulating disc)
- Screw-down, stop valve with secured bonnet and metal sealing (SDNR disc / regulating disc) – suitable for use with water, saturated steam, oil and other non-aggressive liquids.

Sounding valves

We can supply a range of sounding valves, including:

- Self-closing valve, with vent valve and optional foot pedal for ease of manual closing.

Control Valves

Control stations enable instant and remote closure of valves in case of an emergency. They are reliable, easy to use and have a long lifespan. Many control stations can be customised to suit your requirements and are available in pneumatic and hydraulic versions. The pneumatic control station is a modular system that can be customised to your requirements, offering complete flexibility.

The hydraulic control station holds up to six manually operated handles, which can release up to six valves each. The system is a closed circuit hydraulic system, independent of any external power. Each handle has a separate oil reservoir, isolating each group of valves in order to increase safety.

Our hydraulic control station combined with our unique release cylinder offers a reliable solution to common challenges associated with static pressure due to variations in mounting height between the handle and the release cylinders.

Actuated Valves

We can supply a wide range of actuated valves, including:

- EI-O-Matic pneumatic rack and pinion, and electric valve actuators, a dependable range of suitable for many quarter-turn and multi-turn valve requirements
- Damcos hydraulic and electro-hydraulic actuators, with proven reliability
- Single or double-acting pneumatic actuated butterfly valves, electric actuated butterfly valves, single and double-acting hydraulic and electro-hydraulic butterfly valves
- Actuated ball valves
- Actuated globe valves and many more.



Marine - Direct Actuated - 2 Way

150psi water pressure.
225psi proof pressure.
Open on pressure rise.
Screwed connections - NPT
Flanged connections - ANSI
No pressure drop required.
Options for use with ammonia and for open on decrease in pressure.



MODEL	CONNECTION SIZE	KV	CONNECTION TYPE
DA868P-37SEM	3/8"	2.0	SCREWED
DA868P-50SEM	1/2"	2.6	SCREWED
DA868P-75SEM	3/4"	4.3	SCREWED
DA868P-100SEM	1"	6.1	SCREWED
DA868P-125SEM	1 1/4"	11.2	SCREWED
DA868P-150SEM	1 1/2"	12.1	SCREWED
DA866P-150CM	1 1/2"	12.1	FLANGED
DA866P-200CM	2"	17.3	FLANGED
DA866P-250CM	2 1/2"	22.5	FLANGED
M90-P-200-FL2-2W	2"	22.5	FLANGED
M90-P-250-FL2-2W	2 1/2"	32.9	FLANGED
M300P-250-FL-2W	2 1/2"	51.0	FLANGED

Marine - Direct Actuated - 3 Way

150psi water pressure.
225psi proof pressure.
Open on pressure rise.
Screwed connections - NPT
Flanged connections - ANSI
No pressure drop required.



MODEL	CONNECTION SIZE	KV	CONNECTION TYPE
M900P-50SE-3W	1/2"	3.3	SCREWED
M900P-75SE-3W	3/4"	5.4	SCREWED
M900P-100SE-3W	1"	9.5	SCREWED
M900P-150SE-3W	1 1/2"	14.7	SCREWED
M90-P-200-FL2-3W	2"	22.5	FLANGED
M90-P-250-FL2-3W	2 1/2"	32.0	FLANGED
M300P-250-FL-3W	2 1/2"	51.0	FLANGED

Marine - Pilot Actuated - 2 Way

150psi water pressure.
225psi proof pressure.
Open on pressure rise.
Flanged connections - ANSI
Minimum pressure drop require to open valve

Options for use with ammonia and for open on decrease in pressure.



MODEL	CONNECTION SIZE	KV	MINI PRESS DROP - PSI
MM-3100-MF-2W-TB	2"	26.0	8
MM-3100-MF-2W-TN	2"	38.1	8
MM-3100-MF-2W-TA	2"	51.9	8
MM-3110-MF-2W-TB	2 1/2"	34.6	8
MM-3110-MF-2W-TN	2 1/2"	59.7	8
MM-3110-MF-2W-TA	2 1/2"	79.6	8
MM-3120-MF-2W-TB	3"	60.6	8
MM-3120-MF-2W-TN	3"	86.5	8
MM-3120-MF-2W-TA	3"	116.8	8
MM-3130-MF-2W-TC	4"	67.5	8
MM-3130-MF-2W-TB	4"	86.5	8
MM-3130-MF-2W-TA	4"	134.9	8
YM-3145-2W-TN	6"	211.9	4
YM-3145-2W-TA	6"	250.9	4
YM-3170-2W-TA	8"	622.8	4

Marine - Pilot Actuated - 3 Way

150psi water pressure.
225psi proof pressure.
Open on pressure rise.
Flanged connections - ANSI
Minimum pressure drop require to open valve

Options for use with ammonia and for open on decrease in pressure.



MODEL	CONNECTION SIZE	KV	MINI PRESS DROP - PSI
MDFPM-3100-3W-TC	2"	14.7	9
MDFPM-3100-3W-TB	2"	20.8	9
MDFPM-3100-3W-TA	2"	31.1	9
MDFPM-3110-3W-TA	2 1/2"	38.9	9
MDFPM-3120-3W-TC	3"	31.1	9
MDFPM-3120-3W-TB	3"	43.3	9
MDFPM-3120-3W-TA	3"	73.5	9
MDFPM-3130-3W-TC	4"	64.0	7
MDFPM-3130-3W-TB	4"	90.8	7
MDFPM-3130-3W-TA	4"	134.9	7
MDFPM-3150-3W-TB	6"	133.2	5
MDFPM-3150-3W-TA	6"	311.4	5

Penn Water Regulating Valves

Penn 2 Way Pressure Actuated Modulating action.

Controls open on pressure increase with option for close on pressure increase.

Large capacity

Heavy power train

Seawater resistant models available Maximum water pressure: 10 bar Maximum water temperature 80°C

PART NO.	WATER TYPE SIZE	CONNECTION	CODE	CAT NO.
V46BA-9600	MARINE	3/8" BSP	392669	39A
V46BB-9600	MARINE	1/2" BSP	396677	39A
V46BC-9600	MARINE	3/4" BSP	392685	39A
V46BE-9600	MARINE	1 1/4" BSP	392707	39A



Section S

Electrical motors, v belts, pulleys and bearings



Electrical Motors, V Belts, Pulleys and Bearings

Electrical Motors and Accessories

We can supply a wide range of marine electrical motors and accessories.

General Purpose Industrial Motors

IE2 | IE3 | IE4

Light Aluminium Design

63 to 160 frame – available with:

- Cast-on feet with terminal box top, left or right
- Bolt-on feet terminal box can be re-positioned top, left or right
- Higher output motors available in IE2 & IE3 class

Heavy Duty Cast Iron Motors

71 to 315 frame – available with:

- Cast-on feet with terminal box top, left or right
- Bolt-on feet terminal box can be re-positioned top, left or right
- Higher output motors available in IE2 & IE3 class

Special Executions

We offer replacements for existing non-standard motors & solutions for upgrades

- Motors with terminal box on side with cast-on/bolt-on feet
- Double shafted motors
- Special shafted motors
- TENV or TEAO motors
- Motors with fly leads (no terminal box) TEFC, TENV or TEAO

TEF (IC411)

Totally enclosed fan cooled

TEAO (IC418)

Totally enclosed air over

TENV (IC410)

Totally enclosed naturally ventilated

TEFV (IC416)

Totally enclosed force ventilated

Single-Phase Motors

IE1

Capacitor start-capacitor run motors

63 to 100 frame – all aluminium execution

- High starting torque
- Bolt-on feet terminal box can be re-positioned top, left or right
- Mechanical or centrifugal switch used to disconnect the start capacitor

Permanent capacitor motors

63 to 100 frame – all aluminium execution

- Low starting torque – for fans & centrifugal
- Bolt-on feet terminal box can be re-positioned top, left or right

The following are available:

- 2 & 4 pole 230V 50Hz
- 6 pole motors
- 110V 50Hz motors
- 230V/115V 50Hz motors
- 60Hz execution

Two-Speed Three-Phase Motors

Two-speed motors are available for general duty, where the motor torque at each speed are similar valves (Constant Torque Motors) or are designed for quadratic torque applications where the slow speed has a significantly lower output and torque (Fan Duty Motors).

ATEX MOTORS

Zone One

Exde (or Exd) motors available, including:

- PTB certifies ATEX Zone one Motors: also available as Exd (II 2G IIC T4 Gb) – motor in pressure tight enclosure, and Exde (II 2G Exde IIC T4 Gb) – both motor and terminal box in pressure tight enclosure
- 71 to 315 frame

We can also supply:

- ATEX Brakes
- ATEX Forced ventilation motors
- ATEX Encoders

Execution for temperatures class T5 or T6

Zone Two/Zone Twenty-One/Zone Twenty-Two

IE2 and IE3, 100-315 cast frame ATEX and IECEx certified power output 0.75kW – 200kW. ATEX EC Type Examination Certificate available IECEx Certificate of conformity available. Aluminium range 80-160 frame, can also be sourced upon request.

Electric Motors – Integrated Frequency Inverters

Three-phase in/three-phase out: 0.37kW – 22kW

Single-phase in/three-phase out: 0.37 kW – 1.1kW

Ambient Temperature: -25°C - +50°C

Certification and conformity: CE, UL and CSA

- Vector control
- DC input
- Integrated soft-PLC in accordance with ISO EN61131-3
- PC software with integrated oscilloscope function
- Optional fieldbus system (CANopen, Profibus, EtherCAT)
- Handheld controller with full text display
- Pumps and fans operation with power saving function

Coolant Pumps

4COA Coolant Pumps (three-phase & single phase) COV high pressure coolant pumps. Various output powers and immersion depths available.

Medium and High Voltage Motors

Induction squirrel cage motors and slip ring motors:

3kv, 3.3kv, 4kv, 4.16kv, 5kv, 5.5kv, 6kv, 6.6kv, 10kv, 11kv, 13.8kv, 15kv

Frame sizes: 355-1120mm

2p, 4p, 6p, 8p, 10p, 12p, 14p, 16p, 18p, 20p, 22p

Bearings

We can offer a vast range of bearings, including:

SE Bearing Housings – SKF

Features

- A modular design concept for a wide range of options for SKF self-aligning bearing systems
- A stiff and robust design made of high grade grey cast iron and ductile iron
- Very high machining accuracy
- Dimples to attach condition monitoring equipment
- Corrosivity class C3 according to ISO 12944 2:1998

Benefits

- Long bearing service life
- Reliable housing and bearing performance during operation
- Easy and reliable mounting
- Long relubrication intervals
- Low operating temperature
- Low maintenance costs

Split Housed Bearings

Features

- Over a hundred years with quality and innovation in engineering
- Product offering caters to a wide range of applications and industries
- Split to the shaft roller bearings in 4 different series for bore sizes from 35mm – 600mm
- Different bearing mounting options are available including pedestals, round and square flanges, rod ends, take-up units and hanger blocks
- Pedestal mountings which are interchangeable with SN, SAF and SD pillow block units
- Mounting options are available in a variety of materials, including, grey and nodular iron, steel, aluminium and stainless steel
- Both the bearing and seals are housed in a cartridge with a spherical outer surface which fits into the matching surface of the mounting unit
- Wide variety of sealing options with the external alignment feature ensuring a superior sealing capability
- Supply a variety of special customised bearings to suit individual requirements

Benefits

A split roller bearing reduces production downtime and, in many cases, reduces the number of changed required:

- Saves on power consumption
- Where trapped locations are involved, split roller bearings are easier to fit eliminating the need to remove ancillary equipment and clutter on the shaft for bearing replacement to take place
- Easy to install, with pre-set clearances and no specialist tools required, even in trapped positions
- The external alignment feature of the bearing cartridge permits static misalignment of up to 2.5°
- Ensures the seals are always concentric to the shaft

SELF ALIGNING ROLLER BEARINGS – SKF

Features

- Made of super-clean and tough upgraded steel
- Higher load-carrying capacity
- Lower operating temperature
- Reduced vibration and noise levels
- Longer lubricant life

Benefits

- Significantly improved water resistance
- Twice the life in contaminated and poor lubrications conditions when compared with original Explorer
- Increased uptime and productivity
- Lower maintenance and operating costs
- Increased wear and contamination resistance

Please note: This is just a small selection of bearings. Please contact us for further information and availability.

Bearings

PART NO.	DESCRIPTION
H311	ADAPTER SLEEVE
NP1040K	AHU FAN BEARING
UG310ER	ASAHI BEARING
1308K	BEARING
1309K	BEARING
1311 EK	BEARING
1311EKTN9	BEARING
2805-2RS	BEARING
6001-2RS	BEARING
6002-2RS	BEARING
62022RS	BEARING (RUBBER SEALED TYPE)
6205-ZZ	BEARING
62066ZZC3	BEARING
6206-ZZ	BEARING
6207-ZZ	BEARING
6207ZZ-C3	BEARING
6208-2RS	BEARING
6208ZZ	BEARING
6209ZC3	BEARING
6210ZZC3	BEARING (SEALING TYPE)
6214-2Z/C3	BEARING
6214C3	BEARING
6216C3	BEARING
6304ZZC3	BEARING (SEALED TYPE)
6307ZZC3	BEARING (SEALED TYPE)
6307-ZZ-QRS	BEARING
6308ZZC3	BEARING
6309-2RS	BEARING
6309-2Z	BEARING
6309C3	BEARING
6309ZZ/C3	BEARING
6311-2RS	BEARING
6313-C4	BEARING
6313-ZZ	BEARING
6313ZZC3	BEARING
6314C3	BEARING
6316 2Z C3-QRS	BEARING
6804-2RS	BEARING
6805-2RS	BEARING
6902-2RS	BEARING
6902-VRS	BEARING
6904-2RS	BEARING
7309A	BEARING
7309RA	BEARING
H2309	BLOCK FOR ABOVE
H309-40MM	BEARING SHAFT SLEEVE

PART NO.	DESCRIPTION
NTNP204	BEARING WITH HOUSING
NTNP205	BEARING WITH HOUSING
NU2206	BEARING
PASE-35	BEARING BASE
RABR-B-3072	BEARING
RABR-B-3580	BEARING
RCSMA30	BEARING
RHP1320-20	BEARING
SKF 6214-C4	BEARING
SKF-1309K	BEARING
SKF-208	BEARING
SKF2205	BEARING
SKF308	BEARING
SKF309	BEARING
SKF5NL511-609	BEARING
SKF6202-2RS	BEARING
SKF6203-2RS	BEARING
SKF6207-2RS	BEARING
SKF6208-2RS	BEARING
SKF6209-ZZ	BEARING
SKF6313	BEARING
SKF7206	BEARING
SKF7308	BEARING
SKF-KM21	BEARING LOCKNUT
SKF-SY-507M	BEARING
SN513	BLOCK C/W FELT SEAL SN513-611
SNH510-508	BEARING HOUSING
SNH510-608	BEARING HOUSING
SNH511-609	BEARING HOUSING
SNH-511-609	BEARING UNIT
SNL513-611	BEARING CASING
SY507M	BEARING WITH HOUSING
SYJ509-40MM	BEARING
UCP206	BEARING AND PILLOW BLOCK
UCP-207	BEARING
UCP208	BEARING 40mm
UCP308	BEARING AND PILLOW BLOCK
UCP-309	BEARING
UCP310	BEARING AND PILLOW BLOCK
UCP-310	BEARING
UCP311	BEARING
UCP-311	BEARING
UGP308ER	BEARING PULLEY SIDE
UKP310 CW H2310	BEARING
YSA206-2KF	BEARING
YSA207-2FK	BEARING

Bearings

PART NO.	DESCRIPTION
YSA211-2SK	BEARINGS FOR BEARING HOUSE SYJ511
210-R	COUPLING TYRE
214-R	COUPLING TYRE
218-R	COUPLING TYRE
222-R	COUPLING TYRE
F100-TYRE	COUPLING TYRE
F70-TYRE	COUPLING TYRE
F80-TYRE	COUPLING TYRE
F90-TYRE	COUPLING TYRE
F100-TYRE	COUPLING TYRE
TSN611G	LABYRINTH SEAL
FRB11/120	LOCATING RING
SKF-MB21	LOCKWASHER
SY25FM	PILLAR BLOCK BEARING (STANDING BEARING)
UCP207D1	PILLOW BLOCK BEARING
UCP309D1	PILLOW BLOCK BEARING
SNL511-609	PLUMMER BLOCK
TSNA608G	PROTECTION
H2311	SLEEVE
SKF-KM24	SLEEVE DISMOUNTING
H308	TAPER ADAPTOR
H309	TAPER ADAPTOR
1210-19MM	TAPER LOCK BUSH
1610-20MM	TAPER LOCK BUSH
1610-25MM	TAPER LOCK BUSH
1610-28MM	TAPER LOCK BUSH
1610-30MM	TAPER LOCK BUSH
1610-35MM	TAPER LOCK BUSH

PART NO.	DESCRIPTION
1610-38MM	TAPER LOCK BUSH
1610-42MM	TAPER LOCK BUSH
2012-20MM	TAPER LOCK BUSH
2012-25MM	TAPER LOCK BUSH
2012-30MM	TAPER LOCK BUSH
2012-35MM	TAPER LOCK BUSH
2012-38MM	TAPER LOCK BUSH
2012-40MM	TAPER LOCK BUSH
2012-42MM	TAPER LOCK BUSH
2012-45MM	TAPER LOCK BUSH
2012-48MM	TAPER LOCK BUSH
2517-25MM	TAPER LOCK BUSH
2517-28MM	TAPER LOCK BUSH
2517-35MM	TAPER LOCK BUSH
2517-38MM	TAPER LOCK BUSH
2517-40MM	TAPER LOCK BUSH
2517-45MM	TAPER LOCK BUSH
2517-48MM	TAPER LOCK BUSH
2517-50MM	TAPER LOCK BUSH
2517-65MM	TAPER LOCK BUSH
3020-28MM	TAPER LOCK BUSH
3020-38MM	TAPER LOCK BUSH
3020-50MM	TAPER LOCK BUSH
3020-55MM	TAPER LOCK BUSH
3020-60MM	TAPER LOCK BUSH
3020-65MM	TAPER LOCK BUSH
3525-65MM	TAPER LOCK BUSH

Pulleys

PART NO.	DESCRIPTION
SPA112X3	GROOVE PULLEY
SPA118X2	GROOVE PULLEY
SPA125X2	GROOVE PULLEY
SPA125X4	GROOVE PULLEY
SPA132X3	GROOVE PULLEY
SPA140X2	GROOVE PULLEY
SPA140X4	GROOVE PULLEY
SPA140X5	GROOVE PULLEY
SPA160X3	GROOVE PULLEY
SPA160X4	GROOVE PULLEY
SPA170X3	GROOVE PULLEY
SPA180X2	GROOVE PULLEY
SPA180X3	GROOVE PULLEY
SPA190X3	GROOVE PULLEY
SPA200X2	GROOVE PULLEY
SPA200X3	GROOVE PULLEY
SPA200X5	GROOVE PULLEY
SPA250X2	GROOVE PULLEY
SPA280X3	GROOVE PULLEY
SPA300X2	GROOVE PULLEY
SPA85X3	GROOVE PULLEY
SPA95X3	GROOVE PULLEY
SPB100X3	GROOVE PULLEY
SPB118X3	GROOVE PULLEY
SPB132X3	GROOVE PULLEY
SPB140X2	GROOVE PULLEY
SPB140X3	GROOVE PULLEY
SPB150X2	GROOVE PULLEY
SPB150X3	GROOVE PULLEY
SPB150X3	GROOVE PULLEY
SPB160X2	GROOVE PULLEY
SPB180X3	GROOVE PULLEY
SPB180X4	GROOVE PULLEY
SPB190X2	GROOVE PULLEY
SPB200X2	GROOVE PULLEY
SPB200X3	GROOVE PULLEY
SPB200X6	GROOVE PULLEY
SPB212X3	GROOVE PULLEY
SPB212X3	GROOVE PULLEY
SPB220X3	GROOVE PULLEY
SPB224X2	GROOVE PULLEY
SPB224X3	GROOVE PULLEY
SPB224X4	GROOVE PULLEY
SPB236X4	GROOVE PULLEY
SPB250X2	GROOVE PULLEY
SPB250X3	GROOVE PULLEY
SPB250X4	GROOVE PULLEY

PART NO.	DESCRIPTION
SPB250X5	GROOVE PULLEY
SPB250X6	GROOVE PULLEY
SPB258X2	GROOVE PULLEY
SPB280X3	GROOVE PULLEY
SPB280X6	GROOVE PULLEY
SPB300X2	GROOVE PULLEY
SPB300X6	GROOVE PULLEY
SPB315X6	GROOVE PULLEY
SPB400X4	GROOVE PULLEY
SPB400X6	GROOVE PULLEY
SPC164X3	GROOVE PULLEY
SPC170X3	GROOVE PULLEY
SPC236X3	GROOVE PULLEY
SPZ100X1	GROOVE PULLEY
SPZ106X2	GROOVE PULLEY
SPZ112X1	GROOVE PULLEY
SPZ112X2	GROOVE PULLEY
SPZ118X3	GROOVE PULLEY
SPZ125X2	GROOVE PULLEY
SPZ125X5	GROOVE PULLEY
SPZ132X1	GROOVE PULLEY
SPZ132X2	GROOVE PULLEY
SPZ132X3	GROOVE PULLEY
SPZ132X4	GROOVE PULLEY
SPZ132X5	GROOVE PULLEY
SPZ140X2	GROOVE PULLEY
SPZ140X4	GROOVE PULLEY
SPZ160X2	GROOVE PULLEY
SPZ160X3	GROOVE PULLEY
SPZ170X3	GROOVE PULLEY
SPZ180X2	GROOVE PULLEY
SPZ63X3	GROOVE PULLEY
SPZ95X1	GROOVE PULLEY

V Belts

PART NO.	DESCRIPTION
XPZ-1120	V BELT
A23	V-BELT
A25	V BELT
A26	V-BELT
A27	V-BELT
A28	V-BELT
A29	V BELT
A30	V BELT
A31	V BELT
A32	V BELT
A33	V BELT
A36	V-BELT
A37	V-BELT
A39	V-BELT
A41	V BELT
A43	V BELT
A44	V BELT
A44	V-BELT
A45	V-BELT
A46	V BELT
A48	V BELT
A49	V-BELT
A51	V-BELT
A55	V-BELT
A59	V-BELT
A61	V BELT
A62	V-BELT
A63	V BELT
A64	V-BELT
A65	V BELT
A66	V-BELT
A67	V BELT
A67	V-BELT
A69	V BELT
A69	V-BELT
A70	V BELT
A71	V-BELT
A72	V-BELT
A73	V BELT
A74	V-BELT
A75	V-BELT
A78	V BELT
A79	V-BELT
A80	V BELT
A86	V BELT
B100	V BELT
B104	V-BELT
B106	V-BELT
B108	V-BELT
B110	V-BELT

PART NO.	DESCRIPTION
B132	V-BELT
B140	V-BELT
B2040	V-BELT
B35	V BELT
B38	V-BELT
B57	V-BELT
B58	V BELT
B59	V-BELT
B60	V BELT
B61	V-BELT
B64	V BELT
B64	V BELT
B65	V-BELT
B66	V-BELT
B68	V BELT
B69	V BELT
B70	V BELT
B71	V BELT
B72	V BELT
B73	V BELT
B73	V-BELT
B75	V BELT
B76	V-BELT
B78	V BELT
B80	V-BELT
B84	V BELT
B85	V-BELT
B85	V-BELT
B86	V-BELT
B88	V BELT
B90	V-BELT
B95	V-BELT
B96	V-BELT
B97	V-BELT
B98	V-BELT
C102	V-BELT
C113	V-BELT
C115	V-BELT
C118	V-BELT
C120	V BELT
C86	V-BELT
C87	V-BELT
C94	V-BELT
SPA1032	V BELT
SPA1090	V-BELT
SPA1307	V BELT
SPA1382	V-BELT
SPA1425	V BELT
SPA1432	V-BELT
SPA1482	V BELT

V Belts

PART NO.	DESCRIPTION
SPA1500	V BELT
SPA1500	V BELT
SPA1532	V-BELT
SPA1600	V-BELT
SPA1650	V-BELT
SPA1682	V BELT
SPA1700	V BELT
SPA1700	V BELT
SPA1707	V-BELT
SPA1732	V BELT
SPA1750	V-BELT
SPA1782	V-BELT
SPA1782	V-BELT
SPA1800	V BELT
SPA1810	V-BELT
SPA1857	V-BELT
SPA1882	V-BELT
SPA1900	V-BELT
SPA2000	V BELT
SPA2000	V BELT
SPA2082	V BELT
SPA2240	V-BELT
SPA2360	V-BELT
SPA2432	V-BELT
SPA2500	V-BELT
SPA2682	V BELT
SPA732	V-BELT
SPA735	V BELT
SPA750	V BELT
SPA850	V-BELT
SPA975	V BELT
SPB1250	V-BELT
SPB1450	V BELT
SPB1500	V-BELT
SPB1600	V BELT
SPB1690	V-BELT
SPB1700	V-BELT
SPB1720	V-BELT
SPB1750	V-BELT
SPB1800	V BELT
SPB1850	V BELT
SPB1860	V BELT
SPB1900	V BELT
SPB1930	V BELT
SPB1950	V BELT
SPB2000	V BELT
SPB2060	V-BELT
SPB2120	V BELT
SPB2150	V-BELT
SPB2160	V BELT

PART NO.	DESCRIPTION
SPB2210	V BELT
SPB2240	V BELT
SPB2280	V-BELT
SPB2360	V BELT
SPB2410	V BELT
SPB2450	V BELT
SPB2460	V BELT
SPB2500	V-BELT
SPB2600	V-BELT
SPB2650	V BELT
SPB2800	V BELT
SPB2840	V BELT
SPB3000	V BELT
SPB3000	V BELT
SPB3150	V BELT
SPB3350	V BELT
SPB3550	V-BELT
SPB3750	V BELT
SPB4250	V-BELT
SPC2800	V BELT
SPZ1000	V-BELT
SPZ1037	V-BELT
SPZ1087	V-BELT
SPZ1112	V-BELT
SPZ1112	V-BELT
SPZ1180	V-BELT
SPZ1212	V BELT
SPZ1250	V-BELT
SPZ1487	V-BELT
SPZ1520	V BELT
SPZ1600	V-BELT
SPZ1662	V-BELT
SPZ1782	V-BELT
SPZ2000	V-BELT
SPZ3150	V BELT
SPZ630	V BELT
SPZ710	V-BELT
SPZ737	V-BELT
SPZ762	V-BELT
SPZ800	V BELT
SPZ812	V BELT
SPZ825	V-BELT
SPZ850	V BELT
SPZ875	V BELT
SPZ925	V BELT
SPZ937	V BELT
SPZ950	V-BELT
SPZ950	V-BELT
SPZ972	V-BELT
SPZX1237	V-BELT

V Belts

PART NO.	DESCRIPTION
SPZX1262	V BELT
SPZX1437	V BELT
XPA1120	V BELT
XPA1132	V-BELT
XPA1180	V-BELT
XPA1232	V-BELT
XPA1282	V-BELT
XPA1482	V BELT
XPA1700	V BELT
XPA1750	V-BELT
XPA1757	V-BELT
XPA1782	V-BELT
XPA1800	V BELT
XPA1882	V-BELT
XPA1900	V-BELT
XPA2120	V-BELT
XPB1180	V-BELT
XPB1200	V-BELT
XPB1250	V BELT
XPB1500	V BELT
XPB1600	V-BELT
XPB1900	V-BELT
XPB2360	V BELT
XPB2500	V BELT
XPZ 850	V BELT
XPZ1000	V BELT
XPZ1020	V BELT
XPZ1037	V-BELT
XPZ1060	V-BELT
XPZ1080	V BELT
XPZ1087	V-BELT
XPZ1120	V-BELT

PART NO.	DESCRIPTION
XPZ1180	V-BELT
XPZ1187	V BELT
XPZ1232	V-BELT
XPZ1250	V-BELT
XPZ1262	V-BELT
XPZ1287	V-BELT
XPZ1320	V-BELT
XPZ1337	V BELT
XPZ1337	V-BELT
XPZ1400	V BELT
XPZ1450	V-BELT
XPZ1512	V-BELT
XPZ1537	V BELT
XPZ1600	V-BELT
XPZ1662	V-BELT
XPZ1800	V BELT
XPZ562	V-BELT
XPZ630	V-BELT
XPZ837	V BELT
XPZ900	V-BELT
XPZ950	V BELT
XPZ962	V-BELT
XPZ987	V-BELT

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