

KIRBY

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CO₂ Parts Catalogue

FOR **TRANSCRITICAL**
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Table of Contents

Tubes, Fittings and Valves

4

XS 60 Bar Copper Tube.....	4
XS 130 Bar Copper Tube.....	5
60 Bar Copper Fittings.....	6
130 Bar Copper Fittings.....	9
High Pressure Ball Valves.....	13

CO₂ Components

15

Electronic Controls.....	15
CO ₂ Control Valves.....	18
CO ₂ Expansion Valves.....	20
CO ₂ Solenoid Valves.....	22
CO ₂ Sensors.....	23
CO ₂ Line Components.....	25
CO ₂ Pressure Switches.....	28

Spare Parts, Compressors and Misc Items

30

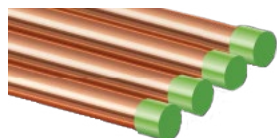
Racks, CDU's and Gas Cooler Spare Parts.....	30
Gas Cooler Components.....	36
CO ₂ Compressors.....	37
Tools and Miscellaneous Items.....	39

Some parts listed in this catalogue are supplied as POA and may be subject to lead times.
For availability and further details, please contact your nearest Kirby branch.

XS 60 BAR COPPER TUBE

TO AS/NZS 1571, AS4041

Technical Specifications



Manufactured in Australia, KEMBLA XS combines MM Kembla's extensive technical knowledge, stringent in house quality controls and over 100 years of experience to develop a high strength copper tube for high-pressure refrigeration applications. Manufactured to AS/NZS 1571 and pressures as per AS 4041, it is ideally suited for applications with operational pressures up to 60 Bar.

Features

- Available in 6m lengths in sizes 3/8" to 7/8"
- Made from Phosphorous Deoxidised Copper (Alloy C12200)
- Designed to meet safe working pressures of 60 Bar (6,000kPa)
- Utilises MM Kembla's unique KemCore Technology to provide uniform tube thickness for optimal piping performance under high pressures
- Optimised wall thickness design to ensure system longevity and performance as per AS 4041 pressure piping standard
- Manufactured in Australia

Usage

- Air Conditioning
- Commercial Refrigeration Systems
- Industrial Refrigeration Systems
- Any Refrigeration System using CO₂ (R744) up to 60Bar

Specifications

Dimensional Tolerances: AS/NZS 1571 AS4041

Internal Cleanliness: AS/NZS 1571 (<0.038g/m²)

Mechanical Properties: AS/NZS 1571

Form of Supply: 6m Lengths, External Green End Caps

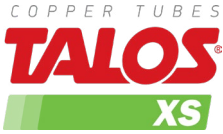
Marking: e.g. KEMBLA XS AS/NZS 1571 & AS4041 HH - 12.70 X 0.97 – AUSTRALIA – Batch No.

Part Number	Actual Tube Size					Safe Working Pressure (kPa)
	OD (In)	OD (mm)	Wall Thickness (mm)	Nominal Tube Mass (kg/length)	Straight Lengths (m)	Service Temperature (@50°C)
T62300	3/8	9.52	0.81	1.19	6	6,800
T62301	1/2	12.7	0.97	1.92	6	6,053
T62302	5/8	15.88	1.21	2.97	6	6,037
T62303	3/4	19.05	1.45	4.30	6	6,030
T62304	7/8	22.22	1.69	5.85	6	6,026

XS 130 BAR COPPER TUBE

TO AS/NZS 1571, AS4041

Technical Specifications



Manufactured in Greece, Talos XS copper tube is an extremely high-quality copper tube suited for high-pressure refrigeration applications. Manufactured to meet AS/NZS 1571 and pressures as per AS 4041, it is ideally suited for applications with operational pressures up to 130 Bar.

Usage

- Air Conditioning
- Commercial Refrigeration Systems
- Industrial Refrigeration Systems
- Any Refrigeration System using CO₂ (R744) up to 120 Bar

Features

- Suited for CO₂ refrigerant applications
- Made from extra strong copper-iron (CuFe2P) alloy
- Cost-effective and lightweight, manufactured with comparatively thinner walls
- Traditional processing techniques and equipment
- Compatible with existing fittings made of the same alloy
- Clearly marked and easy to identify

Specifications

Dimensional Tolerances: Internal Factory Specifications

Internal Cleanliness: EN 12735-1

Mechanical Properties: EN 12735-1, VdTÜV WB567

Form of Supply: Straight lengths with end-caps

Marking: e.g. HALCOR TALOS-XS EN 12735-1 9.52 x 0.65 CuFe2P R300 130 bar / 1885 psi

HH - 12.70 X 0.97 – AUSTRALIA – Batch No.

Part Number	Actual Tube Size			
	OD (In)	OD (mm)	Wall Thickness (mm)	Straight Lengths (m)
K65HD10-065	3/8	9.52	0.65	5
K65HD12-085	1/2	12.70	0.85	5
K65HD15-105	5/8	15.87	1.05	5
K65HD20-130	3/4	19.05	1.30	5
K65HD22-150	7/8	22.23	1.50	5
K65HD28-190	1-1/8	28.57	1.90	5
K65HD35-230	1-3/8	34.92	2.30	5
K65HD42-270	1-5/8	41.27	2.70	5
K65HD54-355	2-1/8	54	3.55	5

¹ 130 bar (1885 psi) at an operating temperature of 150°C (250°F)

² Additional dimensions for other pressures can be made available upon consultation.

³ R300 (annealed) temper acc. to EN 12735-1 and VdTUV 567 and/or R420 (hard as drawn) temper acc. to EN 12735-1. Other tempers can be made available upon consultation.

⁴ Additional lengths are available upon request.

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60 BAR COPPER FITTINGS

Product Range

BUSHES		
Part Number	Size (In)	Pressure (Bar)
1004-0604	3/8 OD x 1/4 ID	69
1004-0804	1/2 OD x 1/4 ID	69
1004-0806	1/2 OD x 3/8 ID	69
1004-1006	5/8 OD x 3/8 ID	69
1004-1008	5/8 OD x 1/2 ID	69
1004-1208	3/4 OD x 1/2 ID	69
1004-1210	3/4 OD x 5/8 ID	69
1004-1408	7/8 OD x 1/2 ID	69
1004-1410	7/8 OD x 5/8 ID	69
1004-1412	7/8 OD x 3/4 ID	69
1004-1612	1 OD x 3/4 ID	69
1004-1814-410A	1-1/8 OD x 7/8 ID	69
1004-2214-410A	1-3/8 OD x 7/8 ID	69
1004-2218-410A	1-3/8 OD x 1-1/8 ID	69
REDUCING COUPLING		
Part Number	Size (In)	Pressure (Bar)
1009-0604	3/8 x 1/4	69
1009-0804	1/2 x 1/4	69
1009-0806	1/2 x 3/8	69
1009-1006	5/8 x 3/8	69
1009-1008	5/8 x 1/2	69
1009-1206	3/4 x 3/8	69
1009-1208	3/4 x 1/2	69
1009-1210	3/4 x 5/8	69
1009-1408	7/8 x 1/2	69
1009-1410	7/8 x 5/8	69
1009-1412	7/8 x 3/4	69
1009-1612	1 x 3/4	69
1009-1614	1 x 7/8	69
1009-1814-410A	1-1/8 x 7/8	69
1009-2218-410A	1-3/8 x 1-1/8	69

60 BAR COPPER FITTINGS (CONT'D)

Product Range

COUPLING		
Part Number	Size (In)	Pressure (Bar)
1009-0404	1/4 x 1/4	69
1009-0606	3/8 x 3/8	69
1009-0808	1/2 x 1/2	69
1009-1010	5/8 x 5/8	69
1009-1212	3/4 x 3/4	69
1009-1414	7/8 x 7/8	69
1009-1616	1 x 1	69
1009-1818-410A	1-1/8 x 1-1/8	69
1009-2222-410A	1-3/8 x 1-3/8	69
1009-2626-410A	1-5/8 x 1-5/8	69
P-TRAP		
Part Number	Size (In)	Pressure (Bar)
1080-10	5/8	69
1080-12	3/4	69
1080-14	7/8	69
90 DEG ELBOW MxF		
Part Number	Size (In)	Pressure (Bar)
1022-0606	3/8 MxF	69
1022-0808	1/2 MxF	69
1022-1010	5/8 MxF	69
1022-1212	3/4 MxF	69
1022-1414	7/8 MxF	69
1022-1616	1 MxF	69
90 DEG ELBOW FxF		
Part Number	Size (In)	Pressure (Bar)
1024-0404	1/4 FxF	69
1024-0505	5/16 FxF	69
1024-0606	3/8 FxF	69
1024-0808	1/2 FxF	69
1024-1010	5/8 FxF	69
1024-1212	3/4 FxF	60
1024-1414	7/8 FxF	60
90 DEG SR ELBOW		
Part Number	Size (In)	Pressure (Bar)
1024S-0606	3/8	69
1024S-0808	1/2	69
1024S-1010	5/8	69
1024S-1212	3/4	69
1024S-1414	7/8	69

60 BAR COPPER FITTINGS (CONT'D)

Product Range



45 DEG ELBOW		
Part Number	Size (In)	Pressure (Bar)
1024-0606	3/8	69
1025-0808	1/2	69
1025-1010	5/8	69
1025-1212	3/4	69
1025-1414	7/8	69
1025-1616	1	69
1025-1818-410A	1-1/8	69
END CAP		
Part Number	Size (In)	Pressure (Bar)
1120-06	3/8	69
1120-08	1/2	69
1120-10	5/8	69
1120-12	3/4	69
1120-14	7/8	69
REDUCING TEE		
Part Number	Size (In)	Pressure (Bar)
1049-050504	5/16 x 5/16 x 1/4	69
1049-060604	3/8 x 3/8 x 1/4	69
1049-080804	1/2 x 1/4 x 1/2	69
1049-080806	1/2 x 3/8 x 1/2	69
1049-080810	1/2 x 1/2 x 5/8	69
1049-101006	5/8 x 5/8 x 3/8	69
1049-101008	5/8 x 5/8 x 1/2	69
1049-121206	3/4 x 3/8 x 3/4	69
1049-121208	3/4 x 1/2 x 3/4	69
1049-121210	3/4 x 3/4 x 5/8	69
1049-161612	1 x 3/4 x 1	69
EQUAL TEE		
Part Number	Size (In)	Pressure (Bar)
1049-040404	1/4	69
1049-060606	3/8	69
1049-080808	1/2	69
1049-101010	5/8	69
1049-121212	3/4	69
1049-141414	7/8	69
1049-161616	1	69

130 BAR COPPER FITTINGS

Product Range

BUSHES		
Part Number	Size (In)	Pressure (Bar)
KX5243004003000	BUSH 1/20DX3/8ID 130BAR	130
KX5243005003000	BUSH 5/80DX3/8ID 130BAR	130
KX5243005004000	BUSH 5/80DX1/2ID 130BAR	130
KX5243006003000	BUSH 3/40DX3/8ID 130BAR	130
KX5243006004000	BUSH 3/40DX1/2ID 130BAR	130
KX5243006005000	BUSH 3/40DX5/8ID 130BAR	130
KX5243007003000	BUSH 7/80DX3/8ID 130BAR	130
KX5243007004000	BUSH 7/80DX1/2ID 130BAR	130
KX5243007005000	BUSH 7/80DX5/8ID 130BAR	130
KX5243007006000	BUSH 7/80DX3/4ID 130BAR	130
KX5243009004000	BUSH 1-1/80DX1/2ID 130BAR	130
KX5243009005000	BUSH 1-1/80DX5/8ID 130BAR	130
KX5243009006000	BUSH 1-1/80DX3/4ID 130BAR	130
KX5243009007000	BUSH 1-1/80DX7/8ID 130BAR	130
KX5243011009000	BUSH 1-3/80DX1-1/8ID 130BAR	130
KX5243013007000	BUSH 1-5/80DX7/8ID 130BAR	130
KX5243013011000	BUSH 1-5/80DX1-3/8ID 130BAR	130
KX5240004003000	BUSH 2-1/80DX1-5/8ID 130BAR	130
COUPLING		
Part Number	Size (In)	Pressure (Bar)
KX5240004003000	COUPLING 1/2X3/8 130BAR	130
KX5240005004000	COUPLING 5/8X1/2 130BAR	130
KX5240006005000	COUPLING 3/4X5/8 130BAR	130
KX5240007006000	COUPLING 7/8X3/4 130BAR	130
KX5240009007000	COUPLING 1-1/8X7/8 130BAR	130
KX5240011004000	COUPLING 1-3/8X1/2 130BAR	130
KX5240011005000	COUPLING 1-3/8X5/8 130BAR	130
KX5240011006000	COUPLING 1-3/8X3/4 130BAR	130
KX5240011007000	COUPLING 1-3/8X7/8 130BAR	130
KX5240011009000	COUPLING 1-3/8X1-1/8 130BAR	130
KX5240013006000	COUPLING 1-5/8X3/4 130BAR	130
KX5240013007000	COUPLING 1-5/8X7/8 130BAR	130
KX5240013009000	COUPLING 1-5/8X1-1/8 130BAR	130
KX5240013011000	COUPLING 1-5/8X1-3/8 130BAR	130
KX5240017013000	COUPLING 2-1/8X1-5/8 130BAR	130

130 BAR COPPER FITTINGS (CONT'D)

Product Range

90 DEG ELBOW MxF		
Part Number	Size (In)	Pressure (Bar)
KX5001003000000	ELBOW 90DEG 3/8 MXF 130BAR	130
KX5001004000000	ELBOW 90DEG 1/2 MXF 130BAR	130
KX5001005000000	ELBOW 90DEG 5/8 MXF 130BAR	130
KX5001006000000	ELBOW 90DEG 3/4 MXF 130BAR	130
KX5001007000000	ELBOW 90DEG 7/8 MXF 130BAR	130
KX5001009000000	ELBOW 90 DEG 1-1/8 MXF 130BAR	130
KX5001011000000	ELBOW 90 DEG 1-3/8 MXF 130BAR	130
KX5001013000000	ELBOW 90 DEG 1-5/8 MXF 130BAR	130
KX5001017000000	ELBOW 90 DEG 2-1/8 MXF 130BAR	130
90 DEG ELBOW FxF		
Part Number	Size (In)	Pressure (Bar)
KX5002003000000	ELBOW 90 DEG 3/8 130BAR	130
KX5002004000000	ELBOW 90 DEG 1/2 130BAR	130
KX5002005000000	ELBOW 90 DEG 5/8 130BAR	130
KX5002006000000	ELBOW 90 DEG 3/4 130BAR	130
KX5002007000000	ELBOW 90 DEG 7/8 130BAR	130
KX5002009000000	ELBOW 90 DEG 1-1/8 130BAR	130
KX5002011000000	ELBOW 90 DEG 1-3/8 130BAR	130
KX5002013000000	ELBOW 90 DEG 1-5/8 130BAR	130
KX5002017000000	ELBOW 90 DEG 2-1/8 130BAR	130
45 DEG ELBOW FxF		
Part Number	Size (In)	Pressure (Bar)
KX5041003000000	ELBOW 45 DEG 3/8 130BAR	130
KX5041004000000	ELBOW 45 DEG 1/2 130BAR	130
KX5041005000000	ELBOW 45 DEG 5/8 130BAR	130
KX5041006000000	ELBOW 45 DEG 3/4 130BAR	130
KX5041007000000	ELBOW 45 DEG 7/8 130BAR	130
KX5041009000000	ELBOW 45 DEG 1-1/8 130BAR	130
KX5041011000000	ELBOW 45 DEG 1-3/8 130BAR	130
KX5041013000000	ELBOW 45 DEG 1-5/8 130BAR	130
45 DEG ELBOW MxF		
Part Number	Size (In)	Pressure (Bar)
KX5040006000000	ELBOW 45 DEG 3/4 MXF 130BAR	130
KX5040007000000	ELBOW 45 DEG 7/8 MXF 130BAR	130
KX5040009000000	ELBOW 45 DEG 1-1/8 MXF 130BAR	130
KX5040011000000	ELBOW 45 DEG 1-3/8 MXF 130BAR	130
KX5040013000000	ELBOW 45 DEG 1-5/8 MXF 130BAR	130

130 BAR COPPER FITTINGS (CONT'D)

Product Range

REDUCING TEE		
Part Number	Size (In)	Pressure (Bar)
KX5130004003003	TEE 1/2X3/8X3/8 130BAR	130
KX5130004004003	TEE 1/2X1/2X3/8 130BAR	130
KX5130005004004	TEE 5/8X1/2X1/2 130BAR	130
KX5130005005003	TEE 5/8X5/8X3/8 130BAR	130
KX5130005005004	TEE 5/8X5/8X1/2 130BAR	130
KX5130006006005	TEE 3/4X3/4X5/8 130BAR	130
KX5130007007006	TEE 7/8X7/8X3/4 130BAR	130
KX5130009009007	TEE 1-1/8X1-1/8X7/8 130BAR	130
KX5130011011006	TEE 1-3/8X1-3/8X3/4 130BAR	130
KX5130011011007	TEE 1-3/8X1-3/8X7/8 130BAR	130
KX5130011011009	TEE 1-3/8X1-3/8X1-1/8 130BAR	130
KX5130013013011	TEE 1-5/8X1-5/8X1-3/8 130BAR	130
KX5130017017017	2-1/8 " 130 BAR BRASS TEE	130
END CAP		
Part Number	Size (In)	Pressure (Bar)
KX5301003000000	END CAP 3/8 130BAR	130
KX5301004000000	END CAP 1/2 130BAR	130
KX5301005000000	END CAP 5/8 130BAR	130
KX5301006000000	END CAP 3/4 130BAR	130
KX5301007000000	END CAP 7/8 130BAR	130
KX5301009000000	END CAP 1-1/8 130BAR	130
KX5301011000000	END CAP 1-3/8 130BAR	130
KX5301013000000	END CAP 1-5/8 130BAR	130
COUPLING		
Part Number	Size (In)	Pressure (Bar)
KX5270003000000	COUPLING 3/8X3/8 130BAR	130
KX5270004000000	COUPLING 1/2X1/2 130BAR	130
KX5270005000000	COUPLING 5/8X5/8 130BAR	130
KX5270006000000	COUPLING 3/4X3/4 130BAR	130
KX5270007000000	COUPLING 7/8X7/8 130BAR	130
KX5270009000000	COUPLING 1-1/8X1-1/8 130BAR	130
KX5270011000000	COUPLING 1-3/8X1-3/8 130BAR	130
KX5270013000000	COUPLING 1-5/8X1-5/8 130BAR	130
KX5270017000000	COUPLING 2-1/8X2-1/8 130BAR	130

130 BAR COPPER FITTINGS (CONT'D)

Product Range

EQUAL TEE		
Part Number	Size (In)	Pressure (Bar)
KX5130003003003	TEE EQUAL 3/8 130BAR	130
KX5130004004004	TEE EQUAL 1/2 130BAR	130
KX5130005005005	TEE EQUAL 5/8 130BAR	130
KX5130006006006	TEE EQUAL 3/4 130BAR	130
KX5130007007007	TEE EQUAL 7/8 130BAR	130
KX5130009009009	TEE EQUAL 1-1/8 130BAR	130
KX5130011011011	TEE EQUAL 1-3/8 130BAR	130
KX5130013013013	TEE EQUAL 1-5/8 130BAR	130

HIGH PRESSURE BALL VALVES

Product Range



130 BAR HIGH PRESSURE BALL VALVES		
Part Number	Size (In)	Pressure (Bar)
907203TH	3/8" ODS High Pressure Ball Valve - 130 Bar	130.0
907204TH	1/2" ODS High Pressure Ball Valve - 130 Bar	130.0
907205TH	5/8" ODS High Pressure Ball Valve - 130 Bar	130.0
907306TH	3/4" ODS High Pressure Ball Valve - 130 Bar	130.0
907307TH	7/8" ODS High Pressure Ball Valve - 130 Bar	130.0
907409TH	1-1/8" ODS High Pressure Ball Valve - 130 Bar	130.0
907511TH	1-3/8" ODS High Pressure Ball Valve - 130 Bar	130.0
907613TH	1-5/8" ODS High Pressure Ball Valve - 130 Bar	130.0

PRESSURE RELIEF VALVES

Part Number	Size (In)	Pressure (Bar)
5700-60.0 BAR-CE	Angle PRV - 3/8" MNPTF Inlet x 3/8" MNPTF Outlet - 60.0 BAR	60.0
5700-80.0 BAR-CE	Angle PRV - 3/8" MNPTF Inlet x 3/8" MNPTF Outlet - 80.0 BAR	80.0
5700-120.0 BAR-CE	Angle PRV - 3/8" MNPTF Inlet x 3/8" MNPTF Outlet - 120.0 BAR	120.0
5701AX-60.0 BAR	Angle PRV - 1/2" MNPTF Inlet x 3/4" MNPTF Outlet - 60.0 BAR	60.0
5701AX-80.0 BAR	Angle PRV - 1/2" MNPTF Inlet x 3/4" MNPTF Outlet - 80.0 BAR	80.0
5701AX-120.0 BAR	Angle PRV - 1/2" MNPTF Inlet x 3/4" MNPTF Outlet - 120.0 BAR	120.0
5702-80.0 BAR-CE	Angle PRV - 1/2" MNPTF Inlet x 1" MNPTF Outlet - 80.0 BAR	80.0
5702-120.0 BAR-CE	Angle PRV - 1/2" MNPTF Inlet x 1" MNPTF Outlet - 120.0 BAR	120.0

3-WAY DUAL SHUT OFF VALVES

Part Number	Size (In)	Pressure (Bar)
8021TH	3-Way Dual Shut Off Valve - 1/2" FNPT Inlet x 1/2" FNPT x 1/2" FNPT	130.0
8022TH	3-Way Dual Shut Off Valve - 3/4" FNPT Inlet x 3/4" FNPT x 3/4" FNPT	130.0
935M	3-Way Dual Shut Off Valve - 1/2" MNPT Inlet x 1/2" FNPT Outlet	130.0
935MR	3-Way Dual Shut Off Valve - 1/2" MNPT Inlet x 1/2" FNPT Outlet	130.0

CAPPED LINE VALVES

Part Number	Size (In)	Pressure (Bar)
2227-0404A1	Capped Line Valve - 1/4 ID (Lower Port) x 1/4 MSAE	130.0
2227-0606A1	Capped Line Valve - 3/8 ID (Lower Port) x 3/8 MSAE	130.0

DRIER CORE & SHELL

Part Number	Size (In)	Pressure (Bar)
SRCH-4811	1-3/8" ODS Replaceable Core Drier Shell - Single Core -80 Bar	80.0
SRCH-4813	1-5/8" ODS Replaceable Core Drier Shell - Single Core -80 Bar	80.0
S-848-CM	Henry Ultra Dri Core 100% MS - 48 Cubic Inch	
S-848-C	Henry Dri Core 80/20 Mix - 48 Cubic Inch	
S-848-CC	Henry Burnout Core - Complete Cleanup 47% MS / 48% AA / 5% AC - 48 Cubic Inch	



HIGH PRESSURE BALL VALVES (CONT'D)

Product Range



OIL SEPARATOR, RESERVOIR & PARTS		
Part Number	Size (In)	Pressure (Bar)
HCOS-37-1-3/8	1-3/8" ODS Coalescing Oil Separator	130.0
STH-9109	High Pressure Oil Reservoir - 3/8" NPT connections - 1/2" NPT Port, 6 Ltr	130.0
STH-9104-25 BAR	Reservoir Pressure Valve 0.35 Barg	130.0
896TH-3/8	3/8" ODS High Pressure Oil Y-Strainer with removable screen basket	130.0
HLSH-230-3	230V AC Intel Oil Level Sensor with 3m power and relay cable 120 BAR	120.0
HOC2H-230-3	IntelOil 230VAC Oil level controller - 120 Bar - 80 Bar MOPD	120.0

ELECTRONIC CONTROLS

Technical Specifications



AK-CC55 Cabinet/Cold Room Controllers

ADAP-KOOL® evaporator controls enable optimal functionality of refrigeration system, and, at the same time, save energy and keep food quality in display cases and cold rooms thanks to features like defrost function, adaptive superheat control with electronically operated expansion valve such as AKV P/PS. The EEV control is based on advanced MSS (Minimum Stable Superheat) or ALC (Adaptive Liquid Control) algorithm that allows even better evaporator utilization with highly precise injection control (almost liquid condition with close to zero superheat).

AK-CC55 Compact

Controlling one evaporator. There are nine applications to select. Regulation can be performed using an AKV P/PS expansion valve or regulation with a solenoid valve together with a thermostatic expansion valve.



AK-CC55 Single Coil and Single Coil UI

Controlling one evaporator. A setting will configure inputs and outputs for the desired use. There are nine applications to choose based on system requirements. Regulation is performed using an AKV P/PS expansion valve (via SSR) or CCMT expansion valve (via stepper driver EKE).

AK-CC55 Multi Coil

Controlling one, two or three evaporators. Other software and applications are available for this. The enclosure is equipped with additional connections. There are five applications to choose based on system requirements. Regulation is performed using AKV P/PS expansion valves.

Part Number	Type	Expansion valve	No. of Evaporators	DO	DI	AI	AO for EEV driver
084B4081	AK-CC55 Compact	AKV P/PS ; TEV	1	3	1 (2)	5 (4)	no
084B4082	AK-CC55 Single Coil	AKV P/PS ; CCMT*	1	5	3 (2)	6 (7)	yes
084B4083	AK-CC55 Single Coil UI	AKV P/PS ; CCMT*	1	5	3 (2)	6 (7)	yes
084B4084	AK-CC55 Multi Coil	AKV P/PS	3	4	3 (2)	6 (7)	no

* - EKE 1 A/B/C/P CONTROLLER IS NEEDED AS A STEPPER VALVE DRIVER

Supply voltage 115V / 230 V 50/60 Hz

DO - Digital Output

DI - Digital Input

AO - Analogue Output / PWM

PWM - Pulse Width Modulated

ELECTRONIC CONTROLS (CONT'D)

Technical Specifications

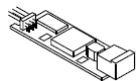


AK-CC accessories

Part Number	Type	Description
084B4075	AK-UI55 Bluetooth	External display with Bluetooth operation.
084B4076	AK-UI Set	External display with control buttons.
084B4077	AK-UI55 Info	External display.
084B4078		3m; External display cable with RJ12 connector.
084B4079		6m; External display cable with RJ12 connector.
084B4070	AK-OB55 Lon	Data communication module Lon. Can be mounted in Single Coil and Multi Coil versions.
084B4099	AK-UI55 Mounting Base	Mounting kit for display types: AK-UI55 Set, AK-UI55 Bluetooth, AK-UI55 Info

Evaporator controllers for systems with TEV for CO₂ and pump recirculation

Controls for regulating refrigeration appliances. The controls are capable of regulating one evaporator, depending on the type of controls. The controls have functions for regulating temperature, defrosting, door frame heating and fan operation.



EKC, AK-CC Cabinet/Cold Room Controllers for panel mounting

Part Number	Type	Supply voltage	Selectable applications	DO	DI	AI
084B8528	AK-CC 250A	230 V ac	10 (with integrated Mod bus)	4	2	3
084B8564	EKA 178A	Data communication module MODBUS				

DO - Digital Output

DI - Digital Input

AO - Analogue Output / PWM

PWM - Pulse Width Modulated

ELECTRONIC CONTROLS (CONT'D)

Technical Specifications



Stepper motor valves drivers and Superheat controllers

Drivers can be used where there are requirements to accurate control of superheat. The main advantages of this controller are:

- The evaporator is charged optimally - even when there are great variations of load and suction pressure.
- Energy savings - the adaptive regulation of the refrigerant injection ensures optimum utilisation of the evaporator and hence a high suction pressure.
- The superheat is regulated to the lowest possible value.
- Power Supply Type 23 V AC/DC.
- Battery Backup Input 18-24 V DC.



Part Number	Type	Number temp sensors	NTC 10K	Pt 1000	DI Dry	AI External reference	MODBus
Superheat controllers and drivers.							
080G5300	EKE 1A	1	yes	no	3	Voltage	no
080G5350	EKE 1B	2	yes	no	-	Voltage	yes
080G5400	EKE 1C	3	yes	yes	2	Voltage / mA	yes



080G5325	EKE 1P	Pure driver with 0-10V external reference signal.					
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080G5555	EKE 2U	Back-up power module.					
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Part Number	Type	Power supply module 230 V / 115 V to 24 V d.c.
080Z0053	AK-PS 075	18 VA; Supply for controller.



Part Number	Type	Power supply module 230 V / 115 V to 24 V d.c.
080G0294	MMIGRS2	Graphic display with operation buttons for AK-PC 7xx A platform
080G0075		1,5; Cable between graphic display type MMIGRS2 and controller (RJ11 plug)
080G0076		3,0; Cable between graphic display type MMIGRS2 and controller (RJ11 plug)
080G0073	MMIMYK	gateway interface



CO₂ CONTROL VALVES

Technical Specifications



High pressure electronic expansion valves

The CCMT is an electronically operated valve designed specifically for CO₂ systems and can function either as an expansion valve, a pressure regulator for the gas cooler, or a gas bypass valve with back-pressure regulation in transcritical applications. Additional features include: compatibility with PAG, POE and PVE oils; combined butt weld and solder connections; and a light weight and compact design. The CTR is an electrically operated 3-way valve designed specifically for operation in CO₂ systems with heat reclaim.

The ICMTS is a direct operated motorized valve designed to regulate the flow of transcritical gas or subcritical liquid from the gas cooler in a transcritical CO₂ system. The ICMTS is driven by actuator type ICAD 600A-TS.

CCMT High pressure Electronic Expansion Valves for R744 (CO₂) / MWP 140 bar / MOPD 90 bar

Applications: High Pressure expansion / Gas By-pass / Direct EXpansion evaporator



Part Number	Type	Connections OD according to EN 10220	Flow rate kv m3/h	Integrated DST 310
027H7200	CCMT 2	Weld 1/2 x 1/2 in; Solder ODF 5/8 x 5/8 in	0.17	No
027H7201	CCMT 4		0.45	No
027H7202	CCMT 8		0.8	No
027H8231	CCMT 16	Weld 1x1; Solder ODF 1 1/8 x 1 1/8 in	1.6	No
027H8232	CCMT 24		2.4	No
027H8233	CCMT 30		3.0	No
027H8234	CCMT 42		4.2	No
027H7231	CCMT 16		1.6	Yes
027H7232	CCMT 24		2.4	Yes
027H7233	CCMT 30		3.0	Yes
027H7234	CCMT 42		4.2	Yes

CTR Commercial Transcritical Heat Reclaim 3-way Valve for R744 (CO₂) / MWP 140 bar / MOPD 3 bar



Part Number	Type	Connections OD according to EN 10220	Flow rate kv m3/h	Integrated DST 310
027H7244	CTR 20	Weld 1 x 1 in; Solder ODF 1 1/8 x 1 1/8 in	20	No

CO₂ CONTROL VALVES (CONT'D)

Technical Specifications



ICMTS High pressure Electronic Expansion Valves for R744 (CO₂) / MWP 140 bar / MOPD 90 bar

Applications: High Pressure expansion / Gas By-pass / Direct EXpansion evaporator



Part Number	Type	Connections OD according to EN 10220	Flow rate kv m3/h
To complete ICMTS 20 valves it is necessary to order: ICMTS valve and ICAD 600B-TS motor			
027H1084	ICMTS 20-A33	D IN butt weld DN 25 / 1 in	0.19
027H1085	ICMTS 20-A		0.59
027H1093	ICMTS 20-B66		1.6
027H1086	ICMTS 20-B		2.4
027H1087	ICMTS 20-C		4.6
027H0496	ICAD 600B-TS	Motor with display	Ethernet communication
027H0495			RS 485 communication

Important: connection cables are not included.



Part Number	Length	Description
ICAD B cable set		
027H0464	1.5 m	3x cables (power supply, control signal and data communication)
027H0465	3 m	
ICAD A and ICAD B cable set		
027H0426	1.5 m	2x cables (power supply and control signal)
027H0438	3 m	

CCMT / CCM / CTR valves accessories



Part Number	Type	Description	Packing format
034G7074		8m; SR-PVC cable with M12 connector	1
064G0950	Packard cable	10m; Cable for DST 310 pressure transmitter	1
064G0910			14
027H7230	Gasket	O-ring spare part kit for CCM / CCMT 2 - CCMT 42	1
034G0013	AST-G	Service Driver; used to manually open or close valve	

ICMTS / ICM valves accessories



027H0180		Multi-function tool for manual operation ICMTS / ICM 20-32
027H0181		Multi-function tool for manual operation ICMTS 50-80
027H0388	ICAD-UPS	Fail safe supply Battery / UPS * 19 V d.c.

CO₂ EXPANSION VALVES

Technical Specifications



AKV10P / AKV 10PS Pulse Width Modulation Electronic Expansion Valves for R744 (CO₂) MWP 90 bar / MOPD 35 bar

AKV 10P and AKV10PS are electronically operated expansion valves designed for refrigeration plants. The AKV 10P and AKV 10PS valves are normally controlled by a controller from Danfoss range of ADAP- KOOL® controllers, that ensures a precise liquid injection into evaporators.

Precise control of liquid injection:

- Optimum utilization of the evaporator
- Increased energy efficiency and COP
- Enables energy saving minimum stable superheat and adaptive defrost algorithms due to turbulent flow
- Provides excellent distribution and oil return
- Soft pulse operation makes possible to have a low noise valve
- Fully Serviceable valve

Part Number	Type	Size [in]	Flow rate kv m ³ /h	Rated capacity R744 kW	
Direct operated valve AKV 10P				Refrigeration	Freezing
068F5210	AKV 10P0	3/8 x 1/2	0.003	0.40	0.63
068F5211	AKV 10P1	3/8 x 1/2	0.009	1.17	1.84
068F5212	AKV 10P2	3/8 x 1/2	0.016	2.06	3.25
068F5213	AKV 10P3	3/8 x 1/2	0.024	3.14	4.87
068F5214	AKV 10P4	3/8 x 1/2	0.046	6.10	9.64
068F5215	AKV 10P5	3/8 x 1/2	0.064	8.49	13.41
068F5216	AKV 10P6	3/8 x 1/2	0.114	15.14	23.90
068F5217	AKV 10P7	1/2 x 5/8	0.214	24.58	38.80
068F5218	AKV 10P8	1/2 x 5/8	0.250	33.26	52.43
Servo operated valve AKV 10PS				Refrigeration	Freezing
068F4044	AKV 10PS4	3/8 x 1/2	0.046	6.10	9.64
068F4045	AKV 10PS5	3/8 x 1/2	0.064	8.49	13.41
068F4046	AKV 10PS6	3/8 x 1/2	0.114	15.14	23.90
068F4047	AKV 10PS7	1/2 x 5/8	0.214	24.58	38.80
068F4048	AKV 10PS8	1/2 x 5/8	0.250	33.26	52.43
Important note: Filter < 40 micron strainer is required in front of AKV 10PS					

Rated capacities are based on:

Receiver temperature t_{rec} = 0°C / 32°F

Evaporating temperature Refrigeration t_e = -10°C / 14°F

Evaporating temperature Freezing t_e = 30°C / -22°F

Subcooling = 1°C / 1.8°F

CO₂ EXPANSION VALVES (CONT'D)

Technical Specifications



			MOPD					
			AKV 10P					AKV 10PS
Part Number	Power	Supply voltage	0 to 3	4	5	6	7 to 8	4 to 8
AC coils - with terminal box, 1P 67								
018F6732	17W	230 V ac 50Hz	35	25	25	25	14	35
AC coils - with 1m cable, IP 67								
018F6282	17W	230 V ac 50 Hz	35	25	25	25	14	35
AC coils - with terminal box, IP 67								
018F6905	19W	230 V ac 50Hz	70	55	40	55	30	55

TE2 Thermostatic expansion valves for R744 (CO₂) / MWP 90bar / MOPD 60bar

With this new TE2 version for CO₂, the use of a manual TXV together with a simpler case controller, create the unique possibility for building a CO₂ system, with a lower initial investment.

- Equally applicable in MT and LT applications
- Supplied with MOP (Max. Operating Pressure)
- Interchangeable orifice assembly
- Stainless steel 1,5 capillary tube
- Connection Flare x Solder
- To enable system tightness it is mandatory to use Danfoss solder adaptor



Part Number	Type	Size [in]	Range N°C	MOP°C
068Z2900	TE2	3/8 x 1/2	-40 to 0	5



Part Number	Orifice No.	Rated capacity R744 kW	
		Refrigeration	Freezing
068Z2100	CZ	1.44	1.66
068Z2101	CY	1.97	2.23
068Z2102	CX	2.19	2.42
068Z2103	C0	3.46	4.23
068-2091	01	5.58	6.75
068-2092	02	10.6	11.6
068-2093	03	15	16.4

Solder adaptor without orifice assembly and filter



Part Number	Connection ODF solder
068-2060	3/8 in
068-2062	1/4 in

Rated capacities are based on:

Receiver temperature $t_{rec} = 0^{\circ}\text{C} / 32^{\circ}\text{F}$

Evaporating temperature Refrigeration $t_e = -10^{\circ}\text{C} / 14^{\circ}\text{F}$

Evaporating temperature Freezing $t_e = -30^{\circ}\text{C} / -22^{\circ}\text{F}$

Subcooling $= 1^{\circ}\text{C} / 1.8^{\circ}\text{F}$

CO₂ SOLENOID VALVES

Technical Specifications



EVT Solenoid Valves for R744 (CO₂) / MWP 140 bar

EVT high pressure range is a direct or servo operated valve specially designed for CO₂ transcritical refrigeration systems. They can be applied in following applications:

- EVT 1.2 direct operated for oil return, pressure equalization/relief control, high pressure hot gas bypass/dump and hot gas defrost.
- EVT 2.0 and 3.0 servo operated for high pressure hot gas bypass/dump and hot gas defrost application.

Part Number	Type	Connection, ODF Copper	MWP bar	Flow rate kv m3/h	MOPD Min	MOPD Max
068F0600	EVT 1.2	3/8 in	140	0.05	0	110
068F0601	EVT 2.0	3/8 in		0.10	2	
068F0611	EVT 3.0	3/8 in		0.23		

Solenoid coil with DIN spade and protection cap IP20

018F6176	BE230AS	Coil 230V / 50Hz / 12W
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042N1256	DIN plug	DIN plug – IP67
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Solenoid coil with terminal box IP67

018F6701	BE230AS	Coil 230V / 50Hz / 12W
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EVUL Solenoid Valves for R744 (CO₂) / MWP 90 bar

EVUL solenoid valves are specially designed to fit into compact systems. The valves are compact and lightweight. They are fully hermetic and of stainless steel construction for excellent leak protection. You will find the EVUL solenoid valves sturdy and easy to fit into most applications.

Part Number	Type	Connection	MWP bar	Flow rate kv m ³ /h	MOPD Min	MOPD Max
032F9506	EVUL 1	1/4 in	90	0.1	0.02	36
032F9510	EVUL 2	1/4 in		0.2		
032F9511	EVUL 3	1/4 in		0.3		
032F9512	EVUL 4	1/4 in		0.5		
032F9513	EVUL 5	3/8 in		0.65		
032F9514	EVUL 6	1/2 in		0.75		
032F9515	EVUL 8	1/2 in		0.9		

EVUL Solenoid Valves for R744 (CO₂) / MWP 90 bar

042N7601	AS230CS	Coil 230V / 50Hz / 8W with DIN spade
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042N1256	DIN plug	DIN plug – IP67
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CO₂ SENSORS

Technical Specifications



Pressure transmitters

AKS 2050 ratiometric pressure transmitters convert measured pressure to a linear output and are designed specifically for CO₂ pressure ranges.



Type	Operating range (bar)	MWP bar	Compensated temperature range (°C)	G3/8A	1/4 in NPT	3/8 solder	1/4 in female flare*
AKS 2050	-1 to +59	100	-30 to +40°C	060G5750	060G6342	060G6408	060G6810
AKS 2050	-1 to +99	150	-30 to +40°C	060G5751	060G6343		
AKS 2050	-1 to +159	250	0 to +80°C	060G5752	060G6344		

* with valve depressor

Part Number	Description
060G1034	DIN Plug with 5m cable (EN175301-803), obtains IP67
060G0007	DIN Plug PG11 (EN175301-803), obtains IP65
060G0008	DIN Plug PG9 (EN175301-803), obtains IP65
017-420566	Adaptor from G3/8" to 1/4" flare (brass)
060G0251	Pulsation snabber adaptor G3/8"

Temperature sensors PT 1000

AKS PT1000 temperature sensors utilize a platinum element to ensure optimal accuracy.

Part Number	Type	Purpose	Sensor range (°C)	Length (m)	Pack Qty.	Pack Format
084N0003	AKS 11	Superheat and air sensor for control & monitoring	-50 to +100 °C	3.5	70	M-Pack
084N0005				5.5	60	
084N0008				8.5	50	
084N0036	AKS 12	Air temperature sensor for monitoring	-40 to +100 °C	1.5	50	M-Pack
084N0039				3.5	30	
084N0038				5.5	30	
084N2003	AKS 21M	Multipurpose sensor	-40 to +100 °C	2.5	72	M-Pack
084N1007	AK-HS1000	HACCP sensor	-50 to +50	5.5	20	M-Pack

Temperature sensors Pt 1000

EKS 221 is an NTC cable sensor with nominal resistance 10.000 ohm at 25°C.

Part Number	Type	Purpose	Sensor range °C	Length (m)	Pack Qty.	Pack Format
084N3210	EKS 221	Temperature sensor NTC 10k	-50 to 120 °C	3.5	20	M-Pack

CO₂ SENSORS (CONT'D)

Technical Specifications



Temperature sensors NTC 5K for EKC

EKS 221 is an NTC cable sensor with nominal resistance 10.000 ohm at 25°C.



Part Number	Type	Purpose	Sensor range °C	Length (m)	Pack Qty.	Pack Format
084N1221	EKS 221	Temperature sensor NTC 5K, PBT (Thermo-Plastic Polyester)	-40 to 80 °C	3.5	20	M-Pack

DGS Danfoss Gas Detector (Modbus)

DGS sensors can be used in stand-alone or integrated systems, where continuous realtime, automatic monitoring with DanfossADAP-KOOL® Refrigeration Control & Monitoring System and/or Building Management Systems is applied. DGS supports our customers in complying with environmental F-Gas Regulations and Health & Safety requirements.



Part Number	Type	Refrigerant	Temperature range (°C)	Alarm threshold	Bell & Light
080Z2809	DGS-SC HFC	grp 1	35 to +60°C	500 ppm	yes
080Z2810		grp 2			
080Z2811		grp 3			
080Z2812	DGS-PE	R290 (propane)	-30 to +60°C	800 ppm	
080Z2800	DGS-IR CO ₂	R744 (CO ₂)	-35 to +50°C	5000 ppm	
080Z2807					
080Z2808 ⁽¹⁾					

(1) 5m sensor cable

HFC grp 1: R1234ze, R454C, **R1234yf**, R452A, R454A, R455A, R454B, R513A

HFC grp 2: R407F, R416A, R417A, R407A, R422A, R427A, R449A, R437A, **R134a**, R438A, R422D

HFC grp 3: R448A, R125, R404A, R32, R507A, R434A, R410A, R452B, **R407C**, R143B

Bold = calibration gas

Spare sensors

Part Number	Description
080Z2815	Spare sensor HFC grp 1
080Z2816	Spare sensor HFC grp 2
080Z2817	Spare sensor HFC grp 3
080Z2818	Spare sensor R290 (propane)
080Z2813	Spare sensor R744 (CO ₂)
080Z2814	Spare sensor R744 (CO ₂) - 5m

Accessories

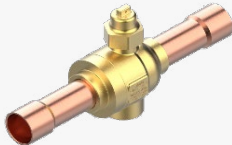
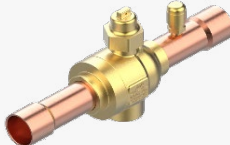
Part Number	Description
080Z2820	Hand-held Service Tool
080Z2819	Strobe & Horn
148H6226	Splash guard
148H6236	Duct set
148H6232	Calibration adaptor
148H6238	Remote kit

CO₂ LINE COMPONENTS

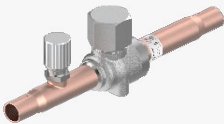
Technical Specifications



GBCT Shut-off ball valve for R744 (CO₂) / MWP 140 bar

Part Number	Type	Part Number	Type	Connection ODF x ODF	Flow rate kv m3/h	MWP
Without access port		With access port				
						
Solder ODF/ODF, copper connections						
009L6415	GBC 6s H	009L6581	GBC 6s H	1/4 in	0.9	140
009L6416	GBC 10s H	009L6582	GBC 10s H	3/8 in	3.7	
009L6417	GBC 12s H	009L6585	GBC 12s H	1/2 in	5.4	
009L6418	GBC 16s H	009L6586	GBC 16s H	5/8 in	10.4	
009L6419	GBCT 18s	009L6588	GBCT 18s	3/4 in	16.6	
009L6420	GBCT 22s	009L6589	GBCT 22s	7/8 in	23.7	
009L6406	GBCT 28s	009L6451	GBCT 28s	1 1/8 in	42.3	
009L6410	GBCT 35s	009L6453	GBCT 35s	1 3/8 in	67.1	
009L6411	GBCT 42s	009L6454	GBCT 42s	1 5/8 in	83.1	
009L6412	GBCT 54s	009L6456	GBCT 54s	2 1/8 in	171.3	

GBCT 90 bar Shut-off ball valve for R744 (CO₂) / MWP 90 bar

Part Number	Type	Part Number	Type	Connection ODF x ODF	Flow rate kv m3/h	MWP
Without access port		With access port				
						
Solder ODF/ODF, Cu-plated stainless steel connections						
009L5415	GBC 6s H	009L5581	GBC 6s H	1/4 in	1.78	90
009L5416	GBC 10s H	009L5582	GBC 10s H	3/8 in	7.0	
009L5417	GBC 12s H	009L5585	GBC 12s H	1/2 in	8.0	
009L5418	GBC 16s H	009L5586	GBC 16s H	5/8 in	12.4	
Solder ODF/ODF, CuSolder ODF/ODF, copper connections						
009L7419	GBC 18s H	009L7588	GBC 18s H	3/4 in	31.07	90
009L7420	GBC 22s H	009L7589	GBC 22s H	7/8 in	24.47	



Part Number	Type	Connection ODF x ODF	Flow rate kv m3/h	MWP
Without access port, butt weld, Stainless steel connections				
009L7406	GBC 28s H	28 mm	96.72	90`
009L7410	GBC 35s H	35 mm	106.95	75
009L7411	GBC 42s H	42 mm	150.98	

CO₂ LINE COMPONENTS (CONT'D)

Technical Specifications



NRVT Check valves for high pressure for R744 (CO₂) / MWP 140 bar

NRVT piston type check valves are designed for installation in discharge line to prevent refrigerant migration to protect compressor and enable the pressure equalization of rotary compressor before startup. In the meanwhile this valve can be used in other installation positions of CO₂ systems such as hot gas and suction lines.



Part Number	Type	Connection ODF x ODF	Diff pressure to start open bar	Fully open bar	Flow rate kv m3/h	MWP bar
NRVT with Soft spring						
020-6401	NRVT 10s	3/8 in	0.02	0.19	1.1	140
020-6402	NRVT 12s	1/2 in	0.01	0.05	2.2	
020-6403	NRVT 16s	5/8 in	0.01	0.04	3.8	
NRVT with Hard spring						
020-6411	NRVT 10sH	3/8 in	0.3	1.43	1.0	140
020-6412	NRVT 12sH	1/2 in	0.2	1.00	2.1	
020-6413	NRVT 16sH	5/8 in	0.26	0.83	3.5	

NRV 10s H internal relief check valve for R744 (CO₂) / MWP 90 bar

NRV 10s H check valves for R744 (CO₂) can work as an internal relief valve when installed in parallel with GBCH shut off ball valves or service shut off valves, at the inlet and outlet of components to be serviced. The NRV 10s H can also be used in hot gas defrosting lines.



Part Number	Type	Connection ODF x ODF	Diff pressure to start open bar	Pressure drop across valve	Flow rate kv m3/h	MWP bar
020-4000	NRV 10s H	3/8 in	0.4 bar	1 bar	0.9	90

Hermetic filter driers for R744 (CO₂)

ELIMINATOR® driers have a solid core with binding material held to an absolute minimum. For CO₂ applications Danfoss offer one type of ELIMINATOR® core. Type DMSC and DMT driers have a core composition of 100% Molecular Sieve.

DMT hermetic filter driers for R744 (CO₂) / MWP 140 bar



Part Number	Type	Size cu.in.	Connection in	MWP bar
023Z8415	DMT 082s	08	1/4 in	140
023Z8416	DMT 083s	08	3/8 in	
023Z8417	DMT 084s	08	1/2 in	
023Z8418	DMT 133s	13	3/8 in	
023Z8419	DMT 134s	13	1/2 in	

CO₂ LINE COMPONENTS (CONT'D)

Technical Specifications



DMSC hermetic filter driers for R744 (CO₂) / MWP 52 bar

Part Number	Type	Size cu.in.	Connection in	MWP bar
023Z8512	DMSC 032s	03	1/4 in	52
023Z8500	DMSC 033s	03	3/8 in	
023Z8503	DMSC 053s	05	3/8 in	
023Z8513	DMSC 084s	08	1/2 in	



DCR filter drier with exchangeable cores for R744 (CO₂) / MWP 90 bar

Part Number	Type	Number of Cores	Solder ODF in	Butt weld mm	Cover type	Packaging	MVP bar
023U1008	DCR 04811B	1	ODF 1 3/8"	-	Plug 1/4" NPT	1	90
023U1011	DCR 04811dB		-	DN 32			
023U1014	DCR 04807B		ODF 7/8"	-			
023U1017	DCR 04807dB		-	DN 20			
023U0996	DCR 09613B	2	ODF 1 5/8"	-	Plug 1/4" NPT	1	90
023U0999	DCR 09613dB		-	DN 40			
023U1002	DCR 09617B		ODF 2 1/8"	-			
023U1005	DCR 09617dB		-	DN 50			
023U1202	DCR 09617dB		-	DN 50	Plug G1/2		

Cores/Filters



Type	M-Pack 3 pcs with gasket ⁽¹⁾	Industrial pack 8 pcs	Description
		with gasket ⁽¹⁾	
48-DM	023U1391	023U1392	100% molecular sieve
48-DC	023U4380	023U4381	80% molecular sieve & 20% Al ₂ O ₃
48-DA	023U5380	023U5381	30% molecular sieve & 70% Al ₂ O ₃
48-F	-	023U1921	Strainer with felt-gasket 15 µm

⁽¹⁾ Top cover gasket

CO₂ PRESSURE SWITCHES

Technical Specifications



CKB Pressure switches for R744 (CO₂) / MWP 143 bar

Safety pressure switches CKB are compact disc type pressure switches with fixed set-points for long-standing use in all CO₂ refrigeration systems. CKB safety pressure switch is used to protect compressor and the system against too high pressure. CKB safety pressure switch provides excellent performance, ensuring minimal drift of setting and extremely stable operation over the entire lifetime. It provides automatic or manual reset limit protection. PED 2014/68/EU approved; EN 12263



Part Number	Type	Set pressure bar	Reset type	Contact system	Connection	MWP bar
061Z1001	PSH	40	Automatic	SPDT	7/16"-20UNF female thread with Schrader opener	143
061Z1002		46				
061Z1003		48				
061Z1012		50				
061Z1007		54				
061Z1004		105				
061Z1016		106				
061Z1005		108				
061Z1011		110				
061Z1019		114				
061Z1017		117				
061Z1021		123				
061Z2001	PZH	40	Manual			
061Z2007		46				
061Z2002		108				
061Z2003		110				
061Z2008		118				
061Z2006		130				
061Z3001	PZHH	120	Manual with tool			
061Z3002		130				

CO₂ PRESSURE SWITCHES (CONT'D)

Technical Specifications



With extended pressure connector



Part Number	Type	Set pressure bar	Reset type	Contact system	Connection	MWP bar
061Z4007	PSH	40	Automatic	SPDT	7/16"-20UNF female thread with Schrader opener	143
061Z4008		48				
061Z5002	PZH	40	Manual			
061Z5003		46				
061Z5004		50				
061Z6003	PZHH	130	Manual with tool			

Part Number	Description
060G1034	DIN Plug with 5m cable (EN175301-803), mounted on pressure transmitter obtains IP67
060G0007	DIN Plug PG11 (EN175301-803), obtains IP65
060G0008	DIN Plug PG9 (EN175301-803), obtains IP65



KP 6 Pressure switches / MWP 46,5 bar

KP pressure switch can be used as a protection in suction line of LT compressor in CO₂ systems (booster & cascade)

PED 2014/68/EU approved; EN 12263. KP 6W cut in again automatically when the pressure has fallen to the set value minus the differential. KP 6B can be cut in manually with the external reset button when the in KP6 has fallen 4 bar under the set value.



Part Number	Type	Pressure settings bar		Reset	Contact system	Connection	MWP bar
		Regulating range		Differential			
060-519066	KP6W	8 - 42	4 - 10	Auto	SPDT	1/4 in. 6mm flare	46.5
060-519166	KP6B	8 - 42	4	Man (Max)			

RACKS, CDU'S AND GAS COOLER SPARE PARTS

Product Range



SCM REF AU RACK COMPONENTS	
Part Number	Description
10241354	Spray Nozzle Replacement Alfa-V Adiabatic Cooling
10246965	Pump 500L/HR PRG5 Alfa-V Adiabatic Cooling
88002048	Motor & Pump Assy 500L/HR Alfa-V Adiabatic Cooling
88002049	Safety Isol. Switch-Fan Mtr. Alfa-V Adiabatic Cooling
E2V24ZCBC0	Carel EEV 24KW E2V24C R747 3/8"X3/8"Weld
E3V30CWM000	Carel EEV 30KW E3V30C R747 5/8"X7/8"Weld
E3V35CWM000	Carel EEV 35KW E3V35C R747 5/8"X7/8"Weld
E3V45CWM000	Carel EEV 45KW E3V45C R747 5/8"X7/8"Weld
E3V55CWR000	Carel EEV 55KW E3V55C R747 5/8"X7/8"Weld
EVD0000T20	Carel Plug In Display for Expansion Valve Driver
EVDIS00EN0	Carel Driver Control Twin Expansion Valves 230V/24V
NTC060HF01	Carel NTC 10K Sensor Temp Probe 6M +20/+50C IP67
NTC060HP00	Carel NTC 10K Sensor Temp Probe 6M -50/+50C IP67
NTC060HT00	Carel NTC 50K Sensor Temp Probe 6M 0/+150C IP67
NTC060WH01	Carel NTC 10K Sensor Temp Probe 6M -50/105C IP68
PRK10TY3C00	Carel PRACK PR100T B CO2T+RTC+B-IN Compact Controller
SPKT00D8C0	Carel Press Trans 4-20mA 0/+150C 1/4"G.Male 2M Cable
SPKT00G1C0	Carel Press Trans 4-20mA 0/+60C 1/4"G.Male 2M Cable
4490/A	Castel Cartridge Filter Drier 62BAR c/w Gasket
4490/B	Castel Cartridge Filter Drier 62BAR w/o Gasket
018F6801	Danfoss Coil BG230AS 220-230V 50Hz 15W.Term Box
027H1087	Danfoss ICMTS 20-C 25DIN CO ₂ Motor Operated Valve
027H7202	Danfoss CCMT-8 1/2"X 5/8"S Elec Reg Valve
027H7234	Danfoss CCMT-42 1"X 1-1/8"S Elec Reg Valve
027H9078	Danfoss Actuator CAD 600A-TS 20A
042N0265	Danfoss Cable Plug Translucent 16A-018/042N Coil
042N7601	Danfoss Coil AS230CS 230/208-240V 50/60Hz 8W
060G5750	Danfoss Press Trans AKS2050 -1.0/59BAR 3/8"GM CO ₂
060G5752	Danfoss Press Trans AKS2050 -1.0/159BAR 3/8"GM CO ₂
061Z1016	Danfoss HP A/R Switch 106BAR CKB-PSH 7/16"UNF CE
061Z2002	Danfoss HP M/R Switch 108BAR CKB-PSH 7/16"UNF CE
061Z2008	Danfoss HP M/R Switch 118BAR CKB-PSH 7/16"UNF CE
061Z4014	Danfoss HP A/R Switch 108BAR CKB-PSH 7/16"UNF CE
061Z5005	Danfoss HP M/R Switch 115BAR CKB-PZH 7/16"UNF CE
061Z5006	Danfoss HP M/R Switch 123BAR CKB-PZH 7/16"UNF CE
068F5216	Danfoss AKV 10P6 3/8"-1/2"ODF Elec Exp Valve / EEV
801028	Copeland 24 VAC 50Hz 17VA Coil - OM5 Oil Regulator
805231	Copeland CO ₂ Oil Regulator OM5 130BAR Base Unit
805480	Copeland Oil Reserve Level Monitor Base Unit LW5-L120

RACKS, CDU'S AND GAS COOLER SPARE PARTS (CONT'D)

Product Range



SCM REF AU RACK COMPONENTS	
Part Number	Description
0718013M	Copeland HP Switch A/R 117BAR CS3-WQS 7/16"-20UNF
5700-120BAR-CE	Henry PRV 120BAR 3/8"- 3/8" MNPTF Angle Brass
5701AX-80BAR-CE	Henry PRV 80BAR 1/2"x 3/4" NPTF Angle Brass
ACH58001018A4B056	ABB AC Inverter 7.5KW 17A IP55 R2
ACH58001026A4B056	ABB AC Inverter 11KW 25A IP55 R2
ACH58001033A4B056	ABB AC Inverter 15KW 32A IP55 R3
ACH58001046A4B056	ABB AC Inverter 22KW 45A IP55 R3
061F9809	Danfoss HP Auto Cart.Press Switch 110BAR CCB-2UB04W
4004114	1/4" Gas Connection Copper Washer Frigo
4004118	Brass Nipple 1/4" Gas Male/Male Frigo
4495/C	Castel Suction Filter Element Cartridge 820cm2
111135	Castel Cover Gasket Filter Housing Type 4411E/4412E
HCYF-P14-82394	Carly Hermetic Oil Strainer 140BAR 1/4"G FI.CONN
52S476S62	Kriwan Optical Liq Level Rec. Monitor 230V INT276 LCA
02K460S40	Kriwan Screw Fitting 1/2" NPT DGRL/140 BAR Opt.Level
B2-P708H-S1B-E6-BL-M	Beta LP/HP Press Switch 1/4" Gas S/ST. 3-85 BAR
4604152	CUBO 2 Plus Spare: Din Plug Connector
GEM-G1/4-N1/4-DN6	Gemels 2 Way S/S Ball Valve 1/4" GAS X 1/4"NPT
52401004012	GSR Oil Sol. Valve 150BAR 230V 1mm Orifice c/w Coil
52421004012	GSR Oil Sol. Valve 90BAR 230V 1mm Orifice c/w Coil
4373.2612H2	Leser HP PRV 120BAR 3/8"G x 1/2" NPT 4373 Series
E10/LS/100BAR	NGI PRV 0.3-100BAR 1/2"x 3/4" MNPTF Angle S/S.
VS4373H2	Leser HP PRV 0.1-365BAR 1/2"-1/2"NPT 437 Series
MOS89.240	Frigomec Muffler 130Bar 7/8"ODS S.O.MOS 89.240-RIS
S8VK-C12024	Omron Single Phase Power Supply 120W 240VAC/24VDC 5A
XXZ00412	Meth Transformer 230VAC 2000VA
XXZ00413	Meth Transformer 24DC 500VA
62021133	Temprite Oil Sep Filter Kit 133A STD Efficiency
62021135	Temprite Oil Sep Filter Kit 135A STD Efficiency
62021137	Temprite Oil Sep Filter Kit 137A STD Efficiency
62021138	Temprite Oil Sep Filter Kit 138A STD Efficiency
62021139	Temprite Oil Sep Filter Kit 139A STD Efficiency
A9N18512	Mcb Sch Ic60N 3P/D 80A Oem
ABL6TS25B	Transformer Schnldr 24024V250Va
DAA51CM24	Timer On Delay 0.1S-100Hrs
LC1D25U7	3P Cont 25A AC3 11KW 1NO 240VAC Coil
LC1D38U7	3P Contactor 38A 18.5kW 1NO 1INC 240VAC Coil
LC1D50AU7	3P Evlk Contractor 50A 22KW AC3 240VAC
LC1D65AU7	3P Cont 65A 18.5KW 1NO 240VAC Coil

RACKS, CDU'S AND GAS COOLER SPARE PARTS (CONT'D)

Product Range



SCM REF AU RACK COMPONENTS

Part Number	Description
LRD12	Overload Relay 5.5-8A Schneidr
LRD22	Overload Relay 16-24A Schneidr
LRD32	Overload Relay 23-32A Schneide
LRD350	Thermal Overload 37-50A CL 10A Everlink
LRD365	Thermal Overload 48-65A CL 10A Everlink



RACKS, CDU'S AND GAS COOLER SPARE PARTS (CONT'D)

Product Range



KIRBY RACK COMPONENTS	
Part Number	Description
63100802BXFF140	Gauge 63Mm Xff0-140Bar 1/4Npt
63100802BXFF80	Gauge 63Mm Xff0-80Bar 1/4Npt
4411E/11AF	Filter Drier 60Bar 1-3/8 1Core
4411E/7AF	Filter Drier 60Bar 7/8 1Core
4412E/11AF	Filter Drier 60Bar 1-3/8 2Core
4490/A	Cartridge Filter Drier-62 Bar with Gasket
3035/4	Fitting 120B 1/2Fnptx7/8Ods
6110E/22	Post Valve Castel 120bar CO ₂ ¼ NPT ¼ M.Fl
AV3-346	Access Valve 1/4Mfx3/16X3/8Sol
018F6702	Danfoss Solenoid Coil 240V/11W 50Hz
027H1093	ICMTS 20-B66 Hpev CO ₂
027H7231	CCMT16 Flash Gas Bypass Vlv
027H8231	CCMT16 Flash Gas Bypass Vlv w/o transmitter
027H9078	ICMTS ICAD 600TS
068F5215	AKV 10P5 Exp Vlv 3/8X1/2
068F5216	AKV 10P6 Valve ODF-ODF 3/8-1/2inch MU.18
023Z8405	Oil Filter Dmt133 3/8 Flr
020B4000	Danfoss NRV 10s H R744 Straightway Check Valve 3/8" ODF
60322S	Angle Vlv 120Bar 1-5/8Ods
805230	Om5 120Bar Traxoil Base Unit
501-1122	Cpc Green 20Ft Probe
BE00930206	Dixell Pp160 0-160 Bar Female
BE00930208	Dixell Pp60 0-60 Bar Female 2M
BN01000300	Probe Ntc Emerson Ns6 Steelcap
S6SH	High Temp Probe Up To 150C Ptc
DA00000800	Ip-Fcex60 Conn. Ipx206D
DD50051330	DWX115-30KIT Cable Assy IPX115D
DD50060300	Dwxev30 Xev20D Connector
X0JFESABY300	X Ev20D -11100 Ipro2Val V2.3
X0K2FFAAA300-S00	IPX115D-10000 Expansion Module
X0K2LAAAA300	Emerson Ipx206D-10000
X0K6KJAJA3N0	prc215D-10000E
X0KBHAAAA1PA	Ipro Viso Touch V2.8 Trans
XEV22D-1C1C0B	Stepper Valve Driver + Display
A52410604.012XX	Sol Vlv 120 Bar 1.5Mm Orif
720-3017-01	One Core - Internal incl gasket and spring
850-150PD	Differential Pressure Gauge - Suit HCOS
5701AX-120BAR	Prv Ang-1/2Mnptfx3/4Mnptf 120B
907203TH	3/8" ODS High Pressure Ball Valve - 130 Bar

RACKS, CDU'S AND GAS COOLER SPARE PARTS (CONT'D)

Product Range



KIRBY RACK COMPONENTS	
Part Number	Description
907204TH	Ball VLV 120 Bar 1/2"
907205TH	Ball VLV 120 Bar 5/8"
907306TH	Ball VLV 120 Bar 3/4"
907307TH	Ball VLV 120 Bar 7/8"
907409TH	Henry - Ball Valve 1-1/8" ODS High Pressure - 120 Bar
907511TH	Henry - Ball Valve 1-3/8" ODS High Pressure - 120 Bar
503MFAC-4-8N	Adaptor 1/2Fnptx1/4Mnpt 165Bar
506MFAC-4-6N	Adaptor 3/8Fnptx1/4Mnpt 365Bar
506SHB-8-4N	Adaptor 1/2"MNPT X 1/4"FNPT
506SPB-8N	Plug 1/2"M-NPT HEX
506SSB-4T-4N	Connector 1/4T Swx1/4F-Npt
KIT OS-13-35	OCS OS Core Filter+Gasket
KIT OS-22-54	OCS OS Core Filter+Gasket
S8VK-C06024	Omron 240/24Vdc 60W 2.5A
48F-6-4	Adaptor 1/4Mnptx3/8Sae
REF1.1ND118K65	Ball Vlv 1-1/8 K65 120Bar
REF2.1012012012	Vlv Changeover 120B 1/2Npt
REF3.1N038K65HT	Check Valve 3/8 120B
REF62.06.00.050	Capillary Tube Schrader 50Mm
REF80123410.060	Prv Ang-1/2Mnptx3/8Mnpt 60B
REF11NEN35MPK14	3Way Ball Valve K65 Vport 140B
REF-GR24A-MP-R	Motor 40NM ON-OFF 24V IP54
REFKITNE/G	Conn. Kit Btew Vlv & Actuator
REZ-ZGV-14-REF	Internal Pin For Actuator
SZ2500110	Rittal Cab Led 1Ph 240V 337Mm
SZ2500420	Cable Rittal For SZ2500110 5 PCS PER PK
SZ2500460	Rittal Door Switch For Light
249-116	End Stop 6Mm Wide(Snap On)
280-326	Plate Interm Orange 2.5Mm 3Way
280-402	Jumper Bar Adj Grey 2.5Mm
280-681	Terminal 2.5Mm Grey 3Way Front
4PSO10	Schneider Gpo 240V 10A Dinrail
A9D61810	Rcbo Sch Ic60N 10A 6Ka Oem
A9F44104	Acti 9 iC60N 1P 4A 6kA C Miniature Circuit Breaker
A9F44106	Acti 9 iC60N 1P 6A 6kA C Miniature Circuit Breaker
A9F44110	Acti 9 iC60N 1P 10A 6kA C Miniature Circuit Breaker
A9F55310	Schneider Mcb 10A D-Curve 3P
A9F55316	Schneider Mcb 16A D-Curve 3P

RACKS, CDU'S AND GAS COOLER SPARE PARTS (CONT'D)

Product Range



KIRBY RACK COMPONENTS	
Part Number	Description
A9F55332	Schneider Mcb 32A D-Curve 3P
A9F55340	Schneider Mcb 40A D-Curve 3P
A9F55350	Schneider Mcb 50A D-Curve 3P
A9F55363	Schneider Mcb 63A D-Curve 3P
RM17TG20	Schneider 3Phase Relay 2Co
RXG22B7	Relay Schndr 2Co 5A Led 24V
RXG22BD	Relay Schndr 2Co 5A Led 24V Dc
RXM4AB2P7	Plug In Relay 14 Pin
RXZE2S114M	Relay Base 14 Pin 4 C/O
SSL1A12JD	Ss Relay Schndr 3-12Vdc 24-280
SSLZVA1	Ss Relay Base Ssl1A12Jd 5Vdc
XB4BVM3	Schndr Pilo Light Green 230V
XB4BVM4	Schndr Pilo Light Red 230V
XB5AD21	Schndr Selector Switch 0/1
MR1848-2	Mount Comp S/Nylon 39X30X16.5
MR1883-12	Hose1/2Id 1/2Mbsp3/4Fbsp1.0M
MR1883-13	Hose1/2Id 1/2Mbsp3/4Fbsp1.5M
MR1883-14	Hose1/2Id 1/2Mbsp3/4Fbsp1.7M
MR1883-15	Hose1/2Id 1/2Mbsp3/4Fbsp1.9M
215-040404	Tee-1/4Msaex1/4Msaex1/4Fsae
LC-AD3-XP000000	Adapter For Lc-Xp 3/4 Npt
LC-XP717101A	Liq Lvl Sensor CO ₂ 120B 1/2Npt
XMLA070D2S12	Press Switch Schndr 70Bar 1Co
XMLA160D2S12	Press Switch Schndr 160Bar 1Co
76118130	Sight Glass For 013704372Au
46F-4-4	Adapter 1/4Fnptx1/4Msae
48F-4-4	Adaptor 1/4Mnptx1/4Sae
506SSB-10T-8N	Connector 5/8T Swx1/2F-Npt
H-506MFAB-4GN	Adaptor 1/4Mbsp/lpx1/4Fnpt

Please note that rack parts are subject to change. Kindly confirm availability and specifications prior to placing an order.

GAS COOLER COMPONENTS

Product Range



ALFA LU-VE ADIABATIC SPARES	
Part Number	Description
10234001	EBM EC 910mm Fan Motor Assy 380-480/50-60/3
10234013	EBM EC 1000mm Fan Motor Assy 380-480/50-60/3
88002049	Safety Isolation Switch - Fan Motor
10243089	Electrical Switchboard - Pumping Station 500 l/h
88002048	Motor & Pump Assy 500 l/h
728311	Vane Water Pump 500 l/h PRG5
728317	Vane Water Pump 1000 l/h PRG10
10241354	Spray Nozzle Replacement
31559255	Spray Tube Rail Top Kit 8 Fan -Type A -VXDTE904
31559259	Spray Tube Rail Bottom Kit 8 Fan -Type B - VXDTE904
31568271	Spray Tube Rail Top Kit 10 Fan-Type A - VXDTE905
31559259	Spray Tube Rail Bottom Kit 10 Fan-Type B - VXDTE905
88002268	Water Pump Temp. Switch 1/2"BSP
88002267	Water Press.Switch 1/4" BSP 1-5BAR
88002269	Water Solenoid Valve NO 1/4"BSP
88002270	Water Solenoid Valve NC 1/2"BSP
88002361	Water Press.Reducer 1/2" BSP 0-6BAR PN25
88002362	Water Press.Gauge 1/4" BSP 0-16BAR
10241354	Spray Nozzle Replacement Alfa-V
ACKNB00000	Carel Spray Nozzle 5 kg/hr Black (10 Pack)

CO₂ COMPRESSORS

Product Range

COPELAND



COPELAND COMPRESSORS

Part Number	Description
4MSL-03-EWL-D/N	Copeland Stream Co2 4.6M3/Hr
4MSL-04-EWL-D/N	Copeland Stream Co2 6.2M3/Hr
4MSL-06-EWL-D/N	Copeland Stream Co2 6.2M3/Hr
4MTL-05-EWL-D/N	Copeland Stream Tco2 4.6M3/Hr
4MTL-07-EWL-D/N	Copeland Stream Tco2 6.2M3/Hr
4MTL-09-EWL-D/N	Copeland Stream Tco2 7.4M3/Hr
4MTL-12-AWM/D/N	Copeland Stream Tco2 9.5M3/Hr
4MTL-15-AWM/D/N	Copeland Stream Tco2 12.5M3/Hr
4MTL-30-AWM/D/N	Copeland Stream Tco2 17.9M3/Hr
4MTL-35-AWM/D/N	Copeland Stream Tco2 22.7M3/Hr
4MTL-40-AWM/D/N	Copeland Stream Tco2 26.6M3/Hr



DAS HERZ DER FRISCHE



BITZER COMPRESSORS

Part Number	Description
4FTEU-30LK 40S	Compressor 4FTEU-30LK 40S 380/3/50
4KTE-12K 40S	Compressor 4KTE-12K 40S 400/3/50
4HTE-20K 45P	Compressor 4HTE-20K 45P 430/3/50
4DTE-25K 45P	Compressor 4DTE-25K 45P 430/3/50
4FTE-30K 45P	Compressor 4FTE-30K 45P 430/3/50
6FTE-50K 45P	Compressor 6FTE-50K 45P 430/3/50
4FTE-30K 40S	Compressor 4FTE-30K 40S 230/3/50
2KME-2K 40S	Compressor 2KME-2K 40S 400/3/50
4HTE-20K 40P	Compressor 4HTE-20K 40P 380/3/50
4FTE-20K 40P	Compressor 4FTE-20K 40P 380/3/50
4FTE-20K 40S	Compressor 4FTE-20K 40S 230/3/50
4MTE-10K 40S	Compressor 4MTE-10K 40S 380/3/50
4JTE-15K 40S	Compressor 4JTE-15K 40S 230/3/50
4JTE-15K 40P	Compressor 4JTE-15K 40P 400/3/50
4HTE-20K 40S	Compressor 4HTE-20K 40S 230/3/50
4FTE-30K 40P	Compressor 4FTE-30K 40P 380/3/50
4CTE-30K 40P	Compressor 4CTE-30K 40P 380/3/50
4DTE-25K 40P	Compressor 4DTE-25K 40P 380/3/50
4DTE-25K 40S	Compressor 4DTE-25K 40S 230/3/50
2FME-5K 40S	Compressor 2FME-5K 40S 400/3/50
2EME-5K 40S	Compressor 2EME-5K 40S 400/3/50
2DME-7K 40S	Compressor 2DME-7K 40S 400/3/50
2MTE-5K 40S	Compressor 2MTE-5K 40S 400/3/50
2GME-3K 40S	Compressor 2GME-3K 40S 400/3/50

CO₂ COMPRESSORS (CONT'D)

Product Range



BITZER COMPRESSORS	
Part Number	Description
2GME-3K 40S	Compressor 2GME-3K 40S 400/3/50
2JME-2K 40S	Compressor 2JME-2K 40S 400/3/50
2HME-3K 40S	Compressor 2HME-3K 40S 400/3/50
2FME-4K 40S	Compressor 2FME-4K 40S 400/3/50
2EME-4K 40S	Compressor 2EME-4K 40S 400/3/50
2DME-5K 40S	Compressor 2DME-5K 40S 400/3/50
2GME-4K 40S	Compressor 2GME-4K 40S 400/3/50
2JME-3K 40S	Compressor 2JME-3K 40S 400/3/50
2HME-4K 40S	Compressor 2HME-4K 40S 400/3/50
6DTE-50K 40P	Compressor 6DTE-50K 40P 380/3/50
6FTE-50K 40P	Compressor 6FTE-50K 40P 380/3/50
6FTEU-50LK 40S	Compressor 6FTEU-50LK 40S 380/3/50
4GTEU-30LK 40S	Compressor 4GTEU-30LK 40S 380/3/50
4GTE-30K 40S	Compressor 4GTE-30K 40S 230/3/50
4GTE-30K 40P	Compressor 4GTE-30K 40P 400/3/50
4GTE-30K 45P	Compressor 4GTE-30K 45P 430/3/50
6DTE-50K 45P	Compressor 6DTE-50K 45P 430/3/50

TOOLS AND MISCELLANEOUS ITEMS

Product Range



TOOLS		
Part Number	Description	Pressure (Bar)
FR4312-E37	Blondelle CO ₂ (R744) Manifold set 80 & 160 Bar with Hoses	-1 + 80 Bar Low -1 + 160 Bar High
FR4612-E36	Blondelle CO ₂ (R744) Liquid & Vapour charging kit (200/300 Bar)	200/300 Bar
CPS4312	CPS 2 VLV Transcritical Mnfld Set W-Hoses	-1 + 80 Bar Low -1 + 160 Bar High
MT2CO2P5E	CPS Mnfld-P-2V TS CO ₂ Gauge 5' BVE Hoses	Sub-critical
TECK01	Tesuco CO ₂ Charging Kit	175 Bar
HCH-744-60	Henry CO ₂ charging manifold and hose assembly.	60 Bar
080Z2148	Danfoss Portable Gas Monitor PAGM for CO ₂	-
724202G11	JAVAC Leak Detector D-Tek Stratus and Portable	-
724202G2	CO ₂ Sensor to suit D-Tek Stratus	-



GAS, OIL & MISCELLANEOUS ITEMS		
Part Number	Description	Pressure (Bar)
N0610	CO ₂ Oil - RENISO C 85 E Oil	-
I06-036	Bitzer Oil BSE85K CO ₂ 5L	-
RL68HB-5LTR	Scroll CO ₂ Oil 5L Pack	-
REF3.1N038K65HT	Check Valve 3/8 120Bar	120 Bar
REF1.1NB016K65	Ball Vlv 5/8 K65 120Bar	120 Bar
REFSTICK	Refrigerant Pipe Sticker	-
REFSTICK-R744	Refrigerant Sticker R744	-
H728015	Nitrogen High Purity 1.5MT3 D	-
H728035	Nitrogen High Purity 3.5MT3 E	-
R728F010	Gas2Find 1.9M3 D Trace Leak	-
R728F020	Gas2Find 4.2M3 E Trace Leak	-
R744014	CO ₂ Refrigerant 13.5KG NT E SZ	-
R744030	CO ₂ Refrigerant 30KG NT G SZ	-
R744372	CO ₂ Refrigerant Manifold Pack 372KG	-
R744030V	CO ₂ Refrigerant 30KG NT G SZ (VAPOR)	-
HCO2TEST-KIT	GasDoctor - CO ₂ Testing Kit	-

Some parts listed in this catalogue are supplied as POA and may be subject to lead times.
For availability and further details, please contact your nearest Kirby branch.

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