SYSTEM CONTROL
ENGINEERING

HVAC & R Catalogue

www.systemcontrol.com.au
Tel: 1800 225 572
Fax: 03 9878 5337

SANHUA · BACHARACH · Mastercool "World Class Quality" · REFRIGERATION TECHNOLOGIES
GREE · dixell · embraco · BRISTOL COMPRESSORS

SYSTEM CONTROL ENGINEERING

CONTENTS

Compressors	3
Line Fittings	12
Air Conditioning Units & Installation Accessories	30
Tubing & Fittings	46
Refrigeration Controls & Electricals	70
Motors, Fans & Oils	84
Capacitors	88
HVAC Cleaners and Sealants	92
Appliance Parts	100
Tools	104
Index	122

WHO WE ARE

An Australian Owned & Operated Company
System Control Engineering (SCE) has been an industry leader for 50 years, servicing the Gas, Electrical Appliance Spares, Heating Ventilation, Air Conditioning & Refrigeration Industries.
On the HVACR side, SCE offers a comprehensive range of Global brand components together with related consumables, tools, test and measurement products.
Leading brands include Sanhua, Mastercool, Rowa, Refrigeration technologies, Ranco, Danfoss, Embraco & many others.
With our continued investment in new products and innovative technologies, SCE will continue to offer the very best quality in product, availability, technical support & service.

Some of our features and benefits include:
- Covering all over Australasia
- Operating across Gas, Electrical & HVACR Industries
- Great Brands at Great Prices
- Convenient ordering
- Complete Delivery Service

COMPRESSORS

Embraco	4
Danfoss	5
Copeland	6
Maneurop	8
Bristol	10

MEDIUM BACK PRESSURE COMPRESSORS

EMBRACO R404A LOW TEMP COMPRESSORS

- Embraco - Hermetic Reciprocating Compressor R404A
- Application - LBP (-23.3'C' / +54.4'C)
- Motor Type 1 Phase CSIR, 3/4HP, 220-240V
- Suction Line - 5/16in, Discharge Line 1/4in

Part No.	Nominal HP	Norminal Capacity (Watts) 32C Ambient				Unit	Qty
		-30	-25	-20	-15		
CHENEU2155GK	3/4	432	557	705	875	EA	1
CHENEU2168GK	3/4	496	642	810	1000	EA	1
CHENEU2178GK	1	586	753	947	1168	EA	1
CHENT2192GK	1	669	865	1100	1375	EA	1
CHENJ2212GK	1.5	1085	1486	1957	2273	EA	1

EMBRACO R404A MEDIUM TEMP COMPRESSORS

- Embraco - Hermetic Reciprocating Compressor R404A
- Suction Line - 5/16in, Discharge Line 1/4inch
- Motor Type 1 Phase CSIR, 1/3HP, 220-240V

Part No.	Nominal HP	Norminal Capacity (Watts) 32C Ambient				Unit	Qty
		-10	-5	0	5		
CHENEK6181GK	1/3	599	730	882	1057	EA	1
CHENEK6213GK	1/2	972	1171	1403	1666	EA	1
CHENEK6217GK	3/4	1166	1411	1690	2003	EA	1
CHENT6222GK	3/4	1287	1597	1960	2371	EA	1
CHENT6226GK	1	1753	2143	2597	3122	EA	1
CHENJ9232GK	1.5	1911	2413	2973	3588	EA	1
CHENJ9238GK	1.5	2424	2970	3583	4272	EA	1

HIGH BACK PRESSURE COMPRESSORS

EMBRACO R134A COMPRESSORS

- Embraco - Hermetic Reciprocating Compressor R134A
- Suction Line - 5/16in, Discharge Line 1/4in
- Motor Type 1 Phase CSIR, 1/4HP, 220V

Part No.	Nominal HP	Norminal Capacity (Watts) 32C Ambient				Unit	Qty
		-10	-5	0	5		
CHENEK6170Z	1/4	422	527	572	798	EA	1
CHENEK6187Z	1/3	477	600	654	918	EA	1
CHENEU6210Z	1/3	578	726	787	1097	EA	1
CHENEU6212Z	1/2	706	892	1111	1365	EA	1
CHENEK6214Z	1/2	752	945	1026	1412	EA	1
CHENT6217Z	3/4	938	1173	1256	1795	EA	1
CHENT6220Z	3/4	1011	1260	1554	1897	EA	1
CHENJ6226Z	1	1497	1892	2340	2852	EA	1

LOW BACK PRESSURE COMPRESSORS

DANFOSS R507/R404A LBP COMPRESSORS

• Suitable for R507/R404A Low temp applications

Part No.	Nominal HP	Displ. Cc/Rev	Nominal Capacity (watts) Evaporating Temp: 32C					Unit	Qty
			-25	-20	-15	-10	-5		
DANSC12CLX	3/8	12.87	490	650	835	1048	1292	EA	1
DANSC18CLX	5/8	17.69	715	918	1154	1425	1735	EA	1

MEDIUM BACK PRESSURE COMPRESSORS

DANFOSS R134A MEDIUM TEMP COMPRESSORS

• Suitable for R134A Low to Medium temp applications

Part No.	Nominal HP	Displ. Cc/Rev	Nominal Capacity (watts) Evaporating Temp: 32C								Unit	Qty
			-25	-20	-15	-10	-5	0	5	10		
DANSC12G	1/3	12.87	175	252	348	464	603	768	960	1182	EA	1
DANSC15G	3/8	15.28	164	290	424	568	728	908	1110	1340	EA	1
DANSC18G	1/2	17.69	283	394	526	684	870	1087	1337	1624	EA	1

SCROLL COMPRESSORS

COPELAND ZB COMPRESSORS SINGLE PHASE

- Scroll compressor
- R404A and R507 refrigerant

Part No.	Displacement (M3/HR)	Watts	Weight (KG)	Full Load (Amps)	Connection (Suction)	Connection (Discharge)	Unit	Qty
COPZB15KQEPFJ	5.92	3880 (-5C/R404a)	23.00	11.40	3/4	1/2	EA	1
COPZB21KQEPFJ	8.60	5960 (-5C/R404a)	27.00	16.40	3/4	1/2	EA	1
COPZB26KQEPFJ	9.90	6910 (-5C/R404a)	28.00	18.90	3/4	1/2	EA	1

COPELAND ZB COMPRESSORS 3 PHASE

- Scroll compressor
- Voltage: 415V 3-Phase
- R404A refrigerant

Part No.	Displacement (M3/HR)	Watts	Weight (KG)	Full Load (Amps)	Connection (Suction)	Connection (Discharge)	Unit	Qty
COPZB15KQETFD	5.92	3880 (-5C/R404a)	23.00	4.30	3/4	1/2	EA	1
COPZB21KQETFD	8.60	5960 (-5C/R404a)	27.00	5.70	3/4	1/2	EA	1
COPZB26KQETFD	9.90	6910 (-5C/R404a)	28.00	7.10	3/4	1/2	EA	1
COPZB29KQETFD	11.40	7400 (-5C/R404a)	37.00	7.90	7/8	1/2	EA	1
COPZB38KQETFD	14.50	10100 (-5C/R404a)	38.00	8.90	7/8	1/2	EA	1
COPZB45KQETFD	17.10	11900 (-5C/R404a)	44.00	10.10	7/8	1/2	EA	1
COPZB58KQETFD	22.10	15850 (-5C/R404a)	60.00	16.40	1 1/8	7/8	EA	1
COPZB66KQETFD	25.70	17850 (-5C/R404a)	60.00	17.30	1 3/8	7/8	EA	1
COPZB76KQETFD	28.80	21200 (-5C/R404a)	65.00	19.20	1 3/8	7/8	EA	1
COPZBD76KCE-TFD	28.80	21200 (-5C/R404a)	61.70	20.40	1 3/4	1 1/4	EA	1

COPELAND ZP COMPRESSORS SINGLE PHASE

- Scroll Compressor stub connection
- R410a Refrigerant

Part No.	Displacement (M3/HR)	Watts	Weight (KG)	Full Load (Amps)	Connection (Suction)	Connection (Discharge)	Unit	Qty
COPZP42KSEPFZ-522	6.93	8710 (7C/R410a)	33.10	21.70	7/8	1/2	EA	1
COPZP61KCEPFZ522	10.11	12700 (7C/R410a)	40.30	29.30	7/8	1/2	EA	1

COPELAND ZP COMPRESSORS 3 PHASE

- Scroll compressor stub connection
- R410a Refrigerant

Part No.	Displacement (M3/HR)	Watts	Weight (KG)	Full Load (Amps)	Connection (Suction)	Connection (Discharge)	Unit	Qty
COPZP54K3ETFD	8.90	11500 (7C/R410a)	33.00	8.60	7/8	1/2	EA	1
COPZP83KCETFD-522	13.43	17200 (7C/R410a)	40.00	13.60	7/8	1/2	EA	1

COPELAND ZR COMPRESSORS SINGLE PHASE

- Scroll compressor stub connection

Part No.	Displacement (M3/HR)	Watts	Weight (KG)	Full Load (Amps)	Connection (Suction)	Connection (Discharge)	Unit	Qty
COPZR22K3EPFJ	5.34	5350 (7.2C/R22)	25.90	11.00	3/4	1/2	EA	1
COPZR34K3PFJ	8.03	8250 (7.2C/R22)	28.60	17.00	3/4	1/2	EA	1
COPZR47KCEPFZ522	11.02	11500 (7.2C/R22)	32.20	23.00	7/8	1/2	EA	1
COPZR61KCEPFZ	14.37	14900 (7.2C/R22)	41.30	30.00	7/8	1/2	EA	1
COPZR68KCEPFZ	16.18	16700 (7.2C/R22)	42.00	30.00	7/8	1/2	EA	1

COPELAND ZR COMPRESSORS 3 PHASE

- Compressor stub connection

Part No.	Displacement (M3/HR)	Watts	Weight (KG)	Full Load (Amps)	Connection (Suction)	Connection (Discharge)	Unit	Qty
COPZR42KCTFD	9.95	10250 (7.2C/R22)	30.40	9.00	3/4	1/2	EA	1
COPZR47KCETFD522	11.16	11500 (7.2C/R22)	29.90	10.00	7/8	1/2	EA	1
COPZR57KCETFD	13.43	13900 (7.2C/R22)	36.30	11.00	7/8	1/2	EA	1
COPZR61KCETFD	14.37	14900 (7.2C/R22)	37.20	11.00	7/8	1/2	EA	1
COPZR68KCETFD	16.18	16800 (7.2C/R22)	38.60	13.00	7/8	1/2	EA	1
COPZR72KCETFD	17.06	17700 (7.2C/R22)	38.60	13.00	7/8	1/2	EA	1
COPZR81KCETFD	18.75	19900 (7.2C/R22)	39.90	15.00	7/8	1/2	EA	1
COPZR94KCETFD	22.10	23300 (7.2C/R22)	57.20	16.00	1 1/8	7/8	EA	1
COPZR108KCETFD	24.90	26400 (7.2C/R22)	60.30	17.00	1 3/8	7/8	EA	1
COPZR125KCETFD522	29.10	31100 (7.2C/R22)	61.20	19.00	1 3/8	7/8	EA	1
COPZR144KCETFD	33.20	35200 (7.2C/R22)	61.20	22.00	1 3/8	7/8	EA	1
COPZR160KCETFD	36.40	37700 (7.2C/R22)	64.90	28.00	1 3/8	7/8	EA	1
COPZR190KCETFD	43.30	45900 (7.2C/R22)	66.20	34.00	1 3/8	7/8	EA	1
COPZR250KCETFD	56.60	56600 (7.2C/R22)	140.00	41.00	2 1/4	1 3/4	EA	1

COMPRESSOR ACCESSORIES

COPELAND ACCESSORIES

• Crankcase heater suits ZR compressors

Part No.	Description	Unit	Qty
COPZRHEATERGEN	GENUINE COPELAND C/CASE HTR 90W ZR94-144	EA	1
COPZRHEATER1GEN	GENUINE COPELAND C/CASE HTR 40W ZR24-47	EA	1
COPZRHEATER2GEN	GENUINE COPELAND C/CASE HTR 70W ZR57-81	EA	1

DANFOSS MANEUROP RECIPROCATING COMPRESSORS

Reciprocating compressors for air conditioning applications in medium and high temperatures with refrigerants R407A, R407C, R407F, R134a, R22. Danfoss reciprocating compressors are suitable for parallel mounting (racks). MTZ: medium and high evaporating temperatures (R407A, R407C, R407F, R134a). MT: medium and high evaporating temperature (R22).MTM: medium and high evaporating temperature manifolding (R22).

RECIPROCATING COMPRESSORS

MANEUROP MTZ SERIES COMPRESSORS

• Phase 3 R22 Refrigerant
• 380/415v
• 50hz

Part No.	Vendor Model	Oil Charge (L)	Displacement (M3/HR)	KW (-5C/R22)	Weight (KG)	Full Load (Amps)	Connection (Suction)	Unit	Qty
MANMTZ364	MTZ36-4VI	0.95	10.52	6010	25	6.4	1 1/4 X 5/8	EA	1
MANMTZ404	MTZ40-4VI	0.95	11.81	6610	26	7.1	1 1/4 X 5/8	EA	1
MANMTZ444	MTZ44-4VI	1.8	13.26	6690	37	6.8	1 3/4 X 7/8	EA	1
MANMTZ504	MTZ50-4VI	1.8	14.9	7490	37	8.2	1 3/4 X 7/8	EA	1
MANMTZ514			0	7722	37		1 3/4 X 7/8	EA	1
MANMTZ564	MTZ56-4VI	1.8	16.73	8290	39	8.6	1 3/4 X 7/8	EA	1
MANMTZ574			0	9066	39		1 3/4 X 7/8	EA	1
MANMTZ644	MTZ64-4VI	1.8	18.74	9830	39	10	1 3/4 X 7/8	EA	1
MANMTZ724	MTZ72-4VI	1.8	21.04	11180	41	12.1	1 3/4 X 7/8	EA	1
MANMTZ804	MTZ80-4VI	1.8	23.63	13130	41	13.6	1 3/4 X 1 1/8	EA	1
MANMTZ1004	MTZ100-4VI	3.9	29.8	14340	60	15.7	1 3/4 X 1 1/8	EA	1
MANMTZ1254	MTZ125-4VI	3.9	37.49	19190	64	19.3	1 3/4 X 1 1/8	EA	1
MANMTZ1444	MTZ144-4VI	3.9	42.09	21650	67	21.4	1 3/4 X 1 1/8	EA	1
MANMTZ1604	MTZ160-4VI	3.9	47.25	24090	69	25.7	1 3/4 X 1 1/8	EA	1

SCROLL COMPRESSORS

MANEUROP SM SERIES COMPRESSORS

- Phase 3 R22 Refrigerant
- 380-415V
- 50Hz

Part No.	Vendor Model	Oil Charge (L)	Displacement (CM3/REV)	KW (7C/R22)	Weight (KG)	Full Load (Amps)	Connection (Suction)	Connection (Discharge)	Unit	Qty
MANSM1104	SM110-4VI	3.25	144.2	29	80	20	1 3/8	7/8	EA	1
MANSM1154	SM115-4RI	3.8	26.97	30	80	22	1 3/8	7/8	EA	1
MANSM1204	SM120-4VI	3.25	166.6	33.7	80	24	1 3/8	7/8	EA	1
MANSM1254	SM125-4RI	3.8	166.6	33.2	80	24	1 3/8	7/8	EA	1
MANSM1484VAI	SM148-4VAI	3.6	199	36.1	93	29	1 3/8	7/8	EA	1
MANSM1614	SM161-4VAI	3.3	216.6	43.4	86	31	1 5/8	1 1/8	EA	1
MANSM1854	SM185-4RI	6.6	249.9	50.5	103	35	1 5/8	1 1/8	EA	1

MANEUROP SZ SERIES COMPRESSORS

- Phase 3 R22 Refrigerant
- 380/415v
- 50hz

Part No.	Vendor Model	Oil Charge (L)	Displacement (CM3/REV)	KW (7C/R22)	Weight (KG)	Full Load (Amps)	Connection (Suction)	Connection (Discharge)	Unit	Qty
MANSZ0844	SZ084-4VI	3.25	114.5	22.8	72	17	1 1/8	3/4	EA	1
MANSZ1004	SZ100-4VI	3.25	127.2	25.8	72	19	1 1/8	3/4	EA	1
MANSZ1204V	SZ120-4VI	3.8	166.6	33.7	80	29	1 3/8	7/8	EA	1
MANSZ1484VAI	SZ148-4VAI	3.6	199	40	88	32	1 3/8	7/8	EA	1
MANSZ1604	SZ160-4RAI	POE 4	216.6	43	94	35	1 3/8	7/8	EA	1
MANSZ1854	SZ185-4RI	POE 6.6	249.9	49.8	103	35	1 5/8	1 1/8	EA	1

RECIPROCATING COMPRESSORS

BRISTOL RECIP COMPRESSORS SINGLE PHASE

- Voltage: 220/240V
- Available in 50Hz

Part No.	Vendor Model	HP	KW (7C/R22)	Voltage	Weight (KG)	Unit	Qty
BRIH23B20QABKA	H23B20QABKA	1.6	4.9	240V 1PH	31.1	EA	1
BRIH29B24UABHA	H29B24UABHA	2	6	240V 1PH	31.5	EA	1
BRIH29B30UABHA	H29B30UABHA	2.5	7.4	240V 1PH	31.6	EA	1
BRIH29B32UABHA	H29B32UABHA	2.8	8.1	240V 1PH	31.5	EA	1
BRIH29B35UABHA	H29B35UABHA	2.8	8.8	240V 1PH	33.4	EA	1
BRIH23A423ABKA	H23A423ABKA	3.3	10.3	240V 1PH	37.5	EA	1
BRIH23A463ABKA	H23A463ABKA	3.8	11.5	240V 1PH	40.7	EA	1

BRISTOL RECIP COMPRESSORS 3 PHASE

- Voltage: 415V 50Hz 3-Phase
- R22 Refrigerant

Part No.	Vendor Model	HP	KW (7C/R22)	Voltage	Weight (KG)	Unit	Qty
BRIH23A383DBEA	H23A383DBEA	3	9.1	415V 3PH	35.7	EA	1
BRIH23A423DBEA	H23A423DBEA	3.3	10.2	415V 3PH	35.7	EA	1
BRIH23A463DBEA	H23A463DBEA	3.5	11.4	415V 3PH	35.7	EA	1
BRIH23A543DBEA	H23A543DBEA	4	13.4	415V 3PH	38.2	EA	1
BRIH23A563DBEA	H23A563DBEA	4.5	13.9	415V 3PH	39.8	EA	1
BRIH29A683DBVA	H29A683DBVA	5.9	17.1	415V 3PH	49.7	EA	1
BRIH29A723DBVA	H29A723DBVA	6	17.8	415V 3PH	49.8	EA	1
BRIH25G094DBVE	H25G094DBVE	7.5	22.1	415V 3PH	70.3	EA	1
BRIH2BG104DBEE	H2BG104DBEE	9	24.7	415V 3PH	69.4	EA	1
BRIH92G104DBEE	H92G104DBEE	10	23.9	415V 3PH	69.4	EA	1
BRIH2BG124DBEE	H2BG124DBEE	10	28.5	415V 3PH	70.3	EA	1
BRIH25G144DBEE	H25G144DBEE	12	34.2	415V 3PH	79.8	EA	1
BRIH2NG184GPE	H2NG184GPE	15	43.2	415V 3PH	114.5	EA	1
BRIH2NG204DREF	H2NG204DREF	17	50.9	415V 3PH	117.9	EA	1
BRIH2NG204GPEF	H2NG204GPEF	17	50.9	415V 3PH	117.7	EA	1
BRIH2NG244DREF	H2NG244DREF	20	58.6	415V 3PH	122	EA	1
BRIH2NG294DPEF	H2NG294DPEF	25	69.8	415V 3PH	123.6	EA	1

SCROLL COMPRESSORS

BRISTOL COMPRESSORS SINGLE PHASE

- Bristol Compressor
- Phase: 1, R22 refrigerant
- Available in 50Hz

Part No.	Vendor Model	HP	KW (7C/R22)	Voltage	Weight (KG)	Unit	Qty
BRIH20C343ABHA	H20C343ABHA	2.8	8.2	240V 1PH	29	EA	1
BRIH23C383ABKA	H23C383ABKA	3	9.2	240V 1PH	33.1	EA	1

BRISTOL COMPRESSORS 3 PHASE

- Compressor for R22 refrigerant
- Voltage: 415V Phase: 3 50Hz

Part No.	Vendor Model	HP	KW (7C/R22)	Voltage	Weight (KG)	Unit	Qty
BRIH20C403DBEA	H20C403DBEA	3.3	9.7	415V 3PH	30.2	EA	1
BRIH20R453DBEA	H20R453DBEA	3.7	11	415V 3PH	41.7	EA	1
BRIH23C473DBEA	H23C473DBEA	3.9	11.5	415V 3PH	34.5	EA	1
BRIH20R483DBEA	H20R483DBEA	4	12	415V 3PH	37	EA	1
BRIH20R943DBEA	H20R943DBEA	7.8	23	415V 3PH	46.3	EA	1
BRIH20R104DBEA	H20R104DBEA	8.2	26	415V 3PH	46.3	EA	1
BRIH20R124DBEA	H20R124DBEA	10	31	415V 3PH	46.3	EA	1

COMPRESSOR ACCESSORIES

BRISTOL ACCESSORIES

- Heater suits Bristol compressors

Part No.	Description	Unit	Qty
BRIHEATER1	HEATER BRISTOL H2NG094-144	EA	1
BRIHEATER2	HEATER BRISTOL H2NG184-294	EA	1
BRIMODULE1	MODULE BRISTOL H2NG144-294 230	EA	1
BRIMODULE2	MODULE BRISTOL H2NG094-124 230	EA	1

LINE FITTINGS

Driers	13
Accumulators	17
Discharge Mufflers	17
Oil Separators	18
Receivers	18
Sight Glasses	19
Vibration Eliminator	20
Rotalock Adaptors	21
Line Valves	25
Solenoid Valves	25
Electronic Expansion Valves	26
Reversing Valves	27
TX Valves	28

DRIERS

SOLID CORE FILTER DRIERS

- Solid core block of 100% molecular sieve, for the ultimate in moisture take up, speed, capacity and retention
- Solid Copper Connection on Solder Version

Part No.	Description	Unit	Qty
ACR300032	FILTER DRIER SOLID CORE 1/4FL	EA	1
ACR300033	FILTER DRIER SOLID CORE 3/8FL	EA	1
ACR300052	FILTER DRIER SOLID CORE 1/4FL	EA	1
ACR300053	FILTER DRIER SOLID CORE 3/8FL	EA	1
ACR300082	FILTER DRIER SOLID CORE 1/4FL	EA	1
ACR300083	FILTER DRIER SOLID CORE 3/8FL	EA	1
ACR300084	FILTER DRIER SOLID CORE 1/2FL	EA	1
ACR300162	FILTER DRIER SOLID CORE 1/4FL	EA	1
ACR300163	FILTER DRIER SOLID CORE 3/8FL	EA	1
ACR300164	FILTER DRIER SOLID CORE 1/2FL	EA	1
ACR300165	FILTER DRIER SOLID CORE 5/8FL	EA	1
ACR300303	FILTER DRIER SOLID CORE 3/8FL	EA	1
ACR300304	FILTER DRIER SOLID CORE 1/2FL	EA	1
ACR300305	FILTER DRIER SOLID CORE 5/8FL	EA	1
ACR300306	FILTER DRIER SOLID CORE 3/4FL	EA	1
ACR300415	FILTER DRIER SOLID CORE 5/8FL	EA	1
ACR301032S	FILTER DRIER SOLID CORE 1/4SOL	EA	1
ACR301052S	FILTER DRIER SOLID CORE 1/4SOL	EA	1
ACR301082S	FILTER DRIER SOLID CORE 1/4SOL	EA	1
ACR301083S	FILTER DRIER SOLID CORE 3/8SOL	EA	1
ACR301053S	FILTER DRIER SOLID CORE 3/8SOL	EA	1
ACR301163S	FILTER DRIER SOLID CORE 3/8SOL	EA	1
ACR301164S	FILTER DRIER SOLID CORE 1/2SOL	EA	1
ACR301165S	FILTER DRIER SOLID CORE 5/8SOL	EA	1
ACR301304S	FILTER DRIER SOLID CORE 1/2SOL	EA	1
ACR301305S	FILTER DRIER SOLID CORE 5/8SOL	EA	1
ACR301306S	FILTER DRIER SOLID CORE 3/4SOL	EA	1
ACR301307S	FILTER DRIER SOLID CORE 7/8SOL	EA	1
ACR301417S	FILTER DRIER SOLID CORE 7/8SOL	EA	1
ACR301419S	FILTER DRIER SOLID CORE 1 1/8SOL	EA	1

DRIER SHELLS

- Highly efficient dirt retaining compatibilities
- High moisture and acid absorption capacity

Part No.	Description	Unit	Qty
ACR3021401	DRIER SHELL 1 CORE 7/8 SOL	EA	1
ACR3021801	DRIER SHELL 1 CORE 1 1/8 SOL	EA	1
ACR3021802	DRIER SHELL 2 CORE 1 1/8 SOL	EA	1
ACR3022202	DRIER SHELL 2 CORE 1 3/8 SOL	EA	1
ACR3022203	DRIER SHELL 3 CORE 1 3/8 SOL	EA	1
ACR3022601	DRIER SHELL 1 CORE 1 5/8 SOL	EA	1
ACR3022602	DRIER SHELL 2 CORE 1 5/8 SOL	EA	1
ACR3022603	DRIER SHELL 3 CORE 1 5/8 SOL	EA	1
ACR3023401	DRIER SHELL 1 CORE 2 1/8 SOL	EA	1
ACR3023402	DRIER SHELL 2 CORE 2 1/8 SOL	EA	1
ACR3023403	DRIER SHELL 3 CORE 2 1/8 SOL	EA	1
ACR3023404	DRIER SHELL 4 CORE 2 1/8 SOL	EA	1
ACR3024202	DRIER SHELL 2 CORE 2 5/8 SOL	EA	1
ACR3024203	DRIER SHELL 3 CORE 2 5/8 SOL	EA	1
ACR3024204	DRIER SHELL 4 CORE 2 5/8 SOL	EA	1
ACR3024802	DRIER SHELL 2 CORE 3 SOL	EA	1

DEMOUNTABLES

- Accessible shell spares

Part No.	Description	Unit	Qty
ACR302INTER	DEMOUNTABLE INT CARRIER 1 CORE	EA	1
ACR302INTER2	DEMOUNTABLE INT CARRIER 2 CORE	EA	1
ACR302INTR3	DEMOUNTABLE INT CARRIER 3 CORE	EA	1

BURNOUT DRIERS

- Flow velocity is suitably low and min pressure drop
- High activated alumina helps refrigeration & AC system clean up after compressor motor burn out

Part No.	Description	Unit	Qty
ACR303083	BURNOUT DRIER 3/8FL DUAL VALVE	EA	1
ACR303083S	BURNOUT DRIER 3/8SOL DUAL VALVE	EA	1
ACR303163	BURNOUT DRIER 3/8FL DUAL VALVE	EA	1
ACR303163S	BURNOUT DRIER 3/8SOL DUAL VALVE	EA	1
ACR303164	BURNOUT DRIER 1/2FL DUAL VALVE	EA	1
ACR303164S	BURNOUT DRIER 1/2SOL DUAL VALVE	EA	1
ACR303165	BURNOUT DRIER 5/8FL DUAL VALVE	EA	1
ACR303165S	BURNOUT DRIER 5/8SOL DUAL VALVE	EA	1
ACR303305	BURNOUT DRIER 5/8FL DUAL VALVE	EA	1
ACR303306	BURNOUT DRIER 3/4FL DUAL VALVE	EA	1
ACR303306S	BURNOUT DRIER 3/4SOL DUAL VALVE	EA	1
ACR303307S	BURNOUT DRIER 7/8SOL DUAL VALVE	EA	1
ACR303309S	BURNOUT DRIER 1 1/8SL DUAL VALVE	EA	1

PANCAKE DRIERS

- Dual access ports to monitor PD and contaminant take up
- Membrane filter element will remove and retain all harmful particles

Part No.	Description	Unit	Qty
ACR303P405S	PANCAKE DRIER 5/8SOL DUAL VALVE	EA	1
ACR303P406S	PANCAKE DRIER 3/4 SOL DUAL VALVE	EA	1
ACR303P407S	PANCAKE DRIER 7/8SOL DUAL VALVE	EA	1
ACR303P409S	PANCAKE DRIER 11/8SOL DUAL VALVE	EA	1

REVERSE (BI-FLOW) HEATPUMP DRIERS

- High drying capacity minimizing the risk of acid formation
- Optimum flow characteristics and dirt retention

Part No.	Description	Unit	Qty
ACR304082	REVERSE HEATPUMP DRIER 1/4FL	EA	1
ACR304082S	REVERSE HEATPUMP DRIER 1/4SOL	EA	1
ACR304083	REVERSE HEATPUMP DRIER 3/8FL	EA	1
ACR304083S	REVERSE HEATPUMP DRIER 3/8SOL	EA	1
ACR304084	REVERSE HEATPUMP DRIER 1/2FL	EA	1
ACR304084S	REVERSE HEATPUMP DRIER 1/2SOL	EA	1
ACR304163	REVERSE HEATPUMP DRIER 3/8FL	EA	1
ACR304163S	REVERSE HEATPUMP DRIER 3/8SOL	EA	1
ACR304164	REVERSE HEATPUMP DRIER 1/2FL	EA	1
ACR304164S	REVERSE HEATPUMP DRIER 1/2SOL	EA	1
ACR304165	REVERSE HEATPUMP DRIER 5/8FL	EA	1
ACR304165S	REVERSE HEATPUMP DRIER 5/8SOL	EA	1
ACR304167S	REVERSE HEAT PUMP DRIER 7/8 SOL	EA	1
ACR304307S	REVERSE HEAT PUMP DRIER 7/8 SOL	EA	1

DRIERS MISCELLANEOUS

Part No.	Description	Unit	Qty
ACR3051	DRIER STD CORE CLEAN UP	EA	1
ACR3052	ULTRA DRIER CORE HD MOISTURE	EA	1
ACR3053	BURN OUT DRIER CORE CLEAN UP	EA	1
ACR3054	SUCTION FILTER ELEMENT LPD	EA	1
ACR3055	GASKET SET FOR DEMOUNT DRIER	EA	1
ACR3056	DRIER SHELL MOUNT BRACKET	EA	1
ACR3057	HIGH CAP DRIER CORE 100 SERIES	EA	1

ACCUMULATORS

SUCTION ACCUMULATORS

- Designed for maximum flow and minimum pressure drop
- Powder coated finish

Part No.	Description	Unit	Qty
ACR3061016	ACCUMULATOR 5/8 102D X 218LG	EA	1
ACR3061019	ACCUMULATOR 5/8 102D X 270LG	EA	1
ACR3061216	ACCUMULATOR 3/4 102D X 244LG	EA	1
ACR3061226	ACCUMULATOR 3/4 128D X 255LG	EA	1
ACR3061434	ACCUMULATOR 7/8 128D X 325LG	EA	1
ACR3061440	ACCUMULATOR 7/8 128D X 370LG	EA	1
ACR3061855	ACCUMULATOR 1 1/8 159D X 390LG	EA	1
ACR3061859	ACCUMULATOR 1 1/8 140D X 430LG	EA	1
ACR3062263	ACCUMULATOR 1 3/8 160D X 350LG	EA	1
ACR3062271	ACCUMULATOR 1 3/8 159D X 460LG	EA	1
ACR3062610	ACCUMULATOR 1 5/8 160D X 575LG	EA	1
ACR3063415	ACCUMULATOR 2 1/8 219D X 368LG	EA	1
ACR3064234	ACCUMULATOR 2 5/8 273D X 763LG	EA	1
ACR3065048	ACCUMULATOR 3 1/8 48L 325D 767L	EA	1

SUCTION ACCUMULATORS (LIQUID LINE)

- Designed for maximum flow and minimum pressure drop
- Powder coated finish

Part No.	Description	Unit	Qty
ACR3061408HE	ACCUMULATOR 7/8 W/ 1/2 LL	EA	1
ACR306185508HE	ACCUMULATOR 1 1/8 WITH 1/2 LL	EA	1

DISCHARGE MUFFLERS

DISCHARGE MUFFLERS

- Solid copper connectors
- Diameter: 76mm, SWP 4200kPa
- Oil drain channels
- Reduced noise and smooth discharge pulse

Part No.	Description	Unit	Qty
ACR31114	MUFFLER DISCHARGE 7/8	EA	1
ACR31118	MUFFLER DISCHARGE 1 1/8	EA	1
ACR31122	MUFFLER DISCHARGE 1 3/8	EA	1
ACR31126	MUFFLER DISCHARGE 1 5/8	EA	1

OIL SEPARATORS

OIL SEPARATORS

- No blocked elements because of too much oil in system
- Low pressure drop
- Oil is metered back to the compressor as required

Part No.	Description	Unit	Qty
ACR30706S	SEPARATOR OIL 3/8IN 103D X 148LG	EA	1
ACR30706	SEPARATOR OIL 3/8 100D X 247LG	EA	1
ACR30708	SEPARATOR OIL 1/2 100D X 245LG	EA	1
ACR30710	SEPARATOR OIL 5/8 100D X 300LG	EA	1
ACR30714	SEPARATOR OIL 7/8 100D X 344LG	EA	1
ACR30718	SEPARATOR OIL 1 1/8 100 X 370L	EA	1
ACR30722	SEPARATOR OIL 1 3/8 152 X 352L	EA	1
ACR30726	SEPARATOR OIL 1 5/8 152 X 429L	EA	1
ACR30714E	SEPARATOR OIL 7/8 NO FLOAT OIL RETURN	EA	1
ACR30718E	SEPARATOR OIL 1 1/8 NO FLOAT OIL RETURN	EA	1
ACR30718E2	SEPARATOR OIL 1 1/8 W/-2GLASSS	EA	1
ACR30722E	SEPARATOR OIL 1 3/8 NO FLOAT OIL RETURN	EA	1
ACR30722E2	SEPARATOR OIL 1 3/8 NO FLOAT 2 GLASS	EA	1
ACR30726E	SEPARATOR OIL 1 5/8 NO FLOAT OIL RETURN	EA	1

RECEIVERS

VERTICAL RECEIVERS

- Designed for maximum flow and minimum pressure drop
- Negligible loss in system efficiency

Part No.	Description	Unit	Qty
ACR30910	RECEIVER VERT 165D X 610L 10.0L	EA	1
ACR30914	RECEIVER VERT 100D X 200L 1.4L	EA	1
ACR30924	RECEIVER VERT 114D X 272L 2.4L	EA	1
ACR30944	RECEIVER VERT 165D X 330L 5.1L	EA	1
ACR30982	RECEIVER VERT 165D X 449L 8.2L	EA	1
ACR309109	RECEIVER VERT 219D X 360L 10.9	EA	1
ACR309145	RECEIVER VERT 219D X 425L 14.5	EA	1
ACR309245	RECEIVER VERT 273D X 546L 24.5L	EA	1
ACR30960V	RECEIVER VERT 273D X 1200L 60L	EA	1

SIGHT GLASSES

SIGHT GLASSES MF X MF

- Connection: Flared Male SAE to Flared Female
- Material: Brass
- High precision colour indicator with excellent readability
- Suitable for R410A refrigerant gas
- Solid and corrosion resistant

Part No.	Description	Unit	Qty
ACR6000404	SIGHT GLASS 1/4 FLARE	EA	1
ACR6000606	SIGHT GLASS 3/8 FLARE	EA	1
ACR6000808	SIGHT GLASS 1/2 FLARE	EA	1
ACR6001010	SIGHT GLASS 5/8 FLARE	EA	1

SIGHT GLASSES MF X FF

- Connection: Flared Male SAE to Flared Female
- Material: Brass
- High precision colour indicator with excellent readability
- Suitable for R410A refrigerant gas
- Solid and corrosion resistant

Part No.	Description	Unit	Qty
ACR6030404	SIGHT GLASS 1/4 MFL X 1/4FFL	EA	1
ACR6030606	SIGHT GLASS 3/8 MFL X 3/8FFL	EA	1
ACR6030808	SIGHT GLASS 1/2 MFL X 1/2FFL	EA	1

SIGHT GLASSES MF X FF SWIVEL

- Connection: Flared male SAE to flared female swivel
- Material: Brass
- Single glass with a wide viewing angle
- Fast and accurate tri-range moisture indicator
- Suitable for R410A refrigerant gas

Part No.	Description	Unit	Qty
ACR6080404	SIGHT GLASS SWIVEL 1/4 MFL X 1/4FFL	EA	1
ACR6080606	SIGHT GLASS SWIVEL 3/8 MFL X 3/8FFL	EA	1
ACR6080808	SIGHT GLASS SWIVEL 1/2 MFL X 1/2FFL	EA	1
ACR6081010	SIGHT GLASS SWIVEL 5/8 MFL X 5/8FFL	EA	1

SIGHT GLASSES SOLDER X FF SWIVEL

- Connection: Solder union to flared female swivel
- Material: Brass
- Wide view sight glasses for optimal reading
- Fast and accurate moisture indicator

Part No.	Description	Unit	Qty
ACR6090404	SIGHT GLASS 1/4SOL X 1/4FFL SWL	EA	1
ACR6090606	SIGHT GLASS 3/8 SOL X 3/8FFL SWL	EA	1
ACR6090808	SIGHT GLASS 1/2 SOL X 1/2FFL SWL	EA	1
ACR6091010	SIGHT GLASS 5/8 SOL X 5/8FFL SWL	EA	1

SIGHT GLASSES SOLDER

- Connection: Solder union
- Material: Brass
- High precision colour indicator with excellent readability
- Suitable for R410A refrigerant gas
- Solid and corrosion resistant

Part No.	Description	Unit	Qty
ACR6050404	SIGHT GLASS 1/4 SOLDER	EA	1
ACR6050606	SIGHT GLASS 3/8 SOLDER	EA	1
ACR6050808	SIGHT GLASS 1/2 SOLDER	EA	1
ACR6051010	SIGHT GLASS 5/8 SOLDER	EA	1
ACR6051212	SIGHT GLASS 3/4 SOLDER	EA	1
ACR6071414	SIGHT GLASS 7/8 SOLDER	EA	1
ACR6071818	SIGHT GLASS 1 1/8 SOLDER	EA	1
ACR6072222	SIGHT GLASS 1 3/8 SOLDER	EA	1
ACR6072626	SIGHT GLASS 1 5/8 SOLDER	EA	1
ACR6073434	SIGHT GLASS 2 1/8 SOLDER	EA	1

VIBRATION ELIMINATOR

VIBRATION ELIMINATORS (PACKLESS)

- Suitable for installation on suction and discharge lines
- Absorbs vibration via the flexible inner tubing and wire braiding
- Working pressure: 620psig or 43bar
- Burst pressure: 3100psig or 214bar

Part No.	Description	Unit	Qty
VPVAF3	VIBRATION ELIMINATOR 3/8	EA	1
VPVAF4	VIBRATION ELIMINATOR 1/2	EA	1
VPVAF5	VIBRATION ELIMINATOR 5/8	EA	1
VPVAF6	VIBRATION ELIMINATOR 3/4S	EA	1
VPVAF7	VIBRATION ELIMINATOR 3/4L	EA	1
VPVAF8	VIBRATION ELIMINATOR 7/8	EA	1
VPVAF9	VIBRATION ELIMINATOR 1 1/8	EA	1
VPVAF10	VIBRATION ELIMINATOR 1 3/8	EA	1
VPVAF11	VIBRATION ELIMINATOR 1 5/8	EA	1
VPVAF82	VIBRATION ELIMINATOR 2 1/8	EA	1
VPVAF83	VIBRATION ELIMINATOR 2 5/8	EA	1

VIBRATION ELIMINATORS SS (PACKLESS)

- Stainless steel hose and braid
- Minimal pressure drop
- Leak proof

Part No.	Description	Unit	Qty
VPVAB3	VIBRATION ELIMINATOR SS 3/8	EA	1
VPVAB4	VIBRATION ELIMINATOR SS 1/2	EA	1
VPVAB5	VIBRATION ELIMINATOR SS 5/8	EA	1
VPVAB6	VIBRATION ELIMINATOR SS 3/4	EA	1
VPVAB8	VIBRATION ELIMINATOR SS 7/8	EA	1
VPVAB10	VIBRATION ELIMINATOR SS 1 3/8	EA	1
VPVAB11	VIBRATION ELIMINATOR SS 1 5/8	EA	1
VPVAB82	VIBRATION ELIMINATOR SS 2 1/8	EA	1
VPVAB83	VIBRATION ELIMINATOR SS 2 5/8	EA	1

ROTALOCK ADAPTORS

ROTALOCK VALVES

- High flow port design with a substantially lowered pressure drop across the valve
- Solid copper connection for ease of installation
- Double access ports - the lower has schrader capability
- Packaged with Teflon gasket

Part No.	Description	Unit	Qty
ACR401061220	ROTALOCK VALVE 3/8 IDX3/4 NUT	EA	1
ACR401061620	ROTALOCK VALVE 3/8 ID X 1 NUT	EA	1
ACR401081220	ROTALOCK VALVE 1/2 IDX3/4 NUT	EA	1
ACR401081620	ROTALOCK VALVE 1/2 ID X 1 NUT	EA	1
ACR401101620	ROTALOCK VALVE 5/8 ID X 1 NUT	EA	1
ACR401102030	ROTALOCK VALVE 5/8 IDX 1 1/4 NUT	EA	1
ACR401122030	ROTALOCK VALVE 3/4 IDX1-1/4 NUT	EA	1
ACR401142030	ROTALOCK VALVE 7/8 IDX1-1/4 NUT	EA	1
ACR401142830	ROTALOCK VALVE 7/8 IDX1-3/4 NUT	EA	1
ACR401182030	ROTALOCK VALVE 1 1/8 IDX1-1/4 NUT	EA	1
ACR401182835	ROTALOCK VALVE 1 1/8 IDX1-3/4 NUT	EA	1
ACR401222835	ROTALOCK VALVE 1 3/8 IDX1-3/4 NUT	EA	1
ACR401262835	ROTALOCK VALVE 1 5/8 IDX1-3/4 NUT	EA	1
ACR401263650	ROTALOCK VALVE 1 5/8 IDX2-1/4 NUT	EA	1

ROTALOCK VALVES BRASS

- Optimum flow due to recessed spindle (backseat position)
- Provides a superior seal with less sealing torque

Part No.	Description	Unit	Qty
ACR401041220B	ROTALOCK VALVE 1/4IDX3/4R/L BRASS	EA	1
ACR401061220B	ROTALOCK VALVE 3/8IDX3/4R/L BRASS	EA	1
ACR401061620B	ROTALOCK VALVE 3/8IDX1R/L BRASS	EA	1
ACR401081620B	ROTALOCK VALVE 1/2IDX1R/L BRASS	EA	1
ACR401182030B	ROTALOCK VALVE 1 1/8IDX1 1/4R/L BRASS	EA	1
ACR401182835B	ROTALOCK VALVE 1 1/8IDX1 3/4R/L BRASS	EA	1
ACR401263650B	ROTALOCK VALVE 1 5/8IDX2 1/4R/L BRASS	EA	1

RECEIVER ROTALOCK VALVES

- High flow port design with a substantially lowered pressure drop across the valve
- Solid copper connection for ease of installation
- Double access ports - the lower has schrader capability

Part No.	Description	Unit	Qty
ACR401061220S	ROTALOCK VALVE 3/8 IDX3/4 NUT	EA	1
ACR401081620S	ROTALOCK VALVE 1/2 ID X 1 NUT	EA	1
ACR401101620S	ROTALOCK VALVE 5/8 ID X 1 NUT	EA	1
ACR401102030S	ROTALOCK VALVE 5/8 IDX1-1/4 NUT	EA	1
ACR401142030S	ROTALOCK VALVE 7/8 IDX1-1/4 NUT	EA	1
ACR401182030S	ROTALOCK VALVE 1 1/8IDX1-1/4 NUT	EA	1
ACR401182835S	ROTALOCK VALVE 1 1/8 IDX1-3/4 NUT	EA	1
ACR404041220S	ROTALOCK VALVE 1/4MFX3/4 NUT	EA	1
ACR404061220S	ROTALOCK VALVE 3/8MFX3/4 NUT	EA	1
ACR404081620S	ROTALOCK VALVE-1/2MFX 1 NUT	EA	1

ROTALOCK STRAIGHT CONNECTORS

- Solid copper connections for ease of installation
- Double plated for ultimate corrosion resistance over the extended service life
- R410a compatible

Part No.	Description	Unit	Qty
ACR4020612	CONN STR ROTALOCK 3/8 IDX3/4 NUT	EA	1
ACR4020816	CONN STR ROTALOCK 1/2 IDX1 NUT	EA	1
ACR4021016	CONN STR ROTALOCK 5/8 IDX1 NUT	EA	1
ACR4021820	CONN STR ROTALOCK 1 1/8 IDX1 1/4 NUT	EA	1
ACR4021828	CONN STR ROTALOCK 1 1/8 IDX1 3/4 NUT	EA	1

ROTALOCK ELBOW CONNECTORS

- Solid copper connections for ease of installation
- Double plated for ultimate corrosion resistance over the extended service life
- R410a compatible

Part No.	Description	Unit	Qty
ACR4030612	ELBOW ROTALOCK 3/8 IDX3/4 NUT	EA	1
ACR4030816	ELBOW ROTALOCK 1/2 IDX1 NUT	EA	1
ACR4031016	ELBOW ROTALOCK 5/8 IDX1 NUT	EA	1
ACR4031216	ELBOW ROTALOCK 3/4 IDX1 NUT	EA	1
ACR4031416	ELBOW ROTALOCK 7/8 IDX1 NUT	EA	1
ACR4031420	ELBOW ROTALOCK 7/8 IDX1 1/4 NUT	EA	1
ACR4031828	ELBOW ROTALOCK 1 1/8 IDX1 3/4 NUT	EA	1

ROTALOCK ELBOW CONNECTORS (WITH ACCESS)

- Solid copper connections for ease of installation
- Double plated for ultimate corrosion resistance over the extended service life
- R410a compatible

Part No.	Description	Unit	Qty
ACR4060616	ELBOW ROTALOCK 3/8 IDX1 NUT ACC	EA	1
ACR4061220	R/LOCK ELB-3/4 IDX1-1/4 NUT AC	EA	1

ROTALOCK STUB ADAPTORS

- Easily adapt from stub compressor tube to Rotalock fitting

Part No.	Description	Unit	Qty
COPDTSW-Q2D8	ADT ROTALOCK 1/2SOL X 1R/L	EA	1
COPDTSW-Q4D28	ADT ROTALOCK 1 3/8SLX1 3/4RL	EA	1
COPDTSW-Q5D31	ADT ROTALOCK 1 5/8SLX2 1/4RL	EA	1
ACR90012	ADT ROTALOCK 3/8SOL X 3/4R	EA	1
COPDTSW-Q3D14	ADT ROTALOCK 3/4SLX1 1/4RL	EA	1
ACR90028	ADT ROTALOCK 11/4SL X 13/4	EA	1
ACR4082236	ADT SPUD 1 3/8ID X 2 1/4RL	EA	1

ROTALOCK GASKETS

- Teflon Gaskets to suit Rotalocks

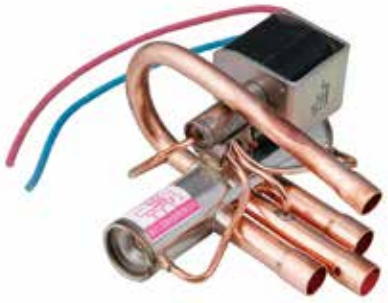
Part No.	Description	Unit	Qty
ACR40012	TEFLON GASKET SUITS ROTALOCKS 3/4 R/L	EA	1
ACR40016	TEFLON GASKET SUITS ROTALOCKS 1 R/L	EA	1
ACR40020	TEFLON GASKET SUITS ROTALOCKS 1 1/4 R/L	EA	1
ACR40028	TEFLON GASKET SUITS ROTALOCKS 1 3/4 R/L	EA	1
ACR40036	TEFLON GASKET SUITS ROTALOCKS 2 1/4 R/L	EA	1

SANHUA

SANHUA is a leading HVAC&R manufacturer of controls and components with a global footprint and 30 years of experience. Their co-operation with the largest companies in the Automotive, Appliance and HVAC&R industries make SANHUA a leading worldwide OEM suppler providing the highest quality components at the most competitive price.

SANHUA has established strategic supply and cooperation relationships with leading refrigeration and air-conditioning manufacturers including Panasonic, Daikin, Mitsubishi, Toshiba, Hitachi, Fujitsu, LG, Samsung, Carrier, Trance, York, Gree, Midea and Haier, among others. Strategic acquisitions of leading HVAC brands Ranco and Aweco and joint venture projects with important industry companies transformed SANHUA into one of the largest manufacturers of Expansion, Solenoid and Reversing Valves with annual valve sales exceeding 100 million pieces. SANHUA is listed in the top 100 strongest Chinese industrial brands.

After sustainable growth over the last 3 decades, SANHUA has made significant progress to introduce a comprehensive range of controls and line components for the Commercial Air conditioning and Refrigeration Industries and to increase its service level coverage in the most important North American markets.



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LINE VALVES

BALL VALVES

- Straightway type, full port, low pressure drop, cost-effective
- Optional with reinforced spring
- Valve body and valve seat with welded structure
- Bidirectional flow

Part No.	Description	Unit	Qty
SANSBV-13002	BALL VALVE NO ACC 1/4 SBV(M)-A2YHSY-1	EA	1
SANSBV-13037	BALL VALVE NO ACC 3/8 SBV(M)-A3YHSY-2	EA	1
SANSBV-13005	BALL VALVE NO ACC 1/2 SBV(M)-A4YHSY-1	EA	1
SANSBV-13007	BALL VALVE NO ACC 5/8 SBV(M)-A5YHSY-1	EA	1
SANSBV-13009	BALL VALVE NO ACC 3/4 SBV(M)-A6YHSY-1	EA	1
SANSBV-13010	BALL VALVE NO ACC 7/8 SBV(M)-A7YHSY-1	EA	1
SANSBV-13012	BALL VALVE NO ACC 1 1/8 SBV(M)-A9YHSY-1	EA	1
SANSBV-13013	BALL VALVE NO ACC 1 3/8 SBV(M)-A11YHSY-1	EA	1
SANSBV-13038	BALL VALVE NO ACC 1 5/8 SBV(M)-A13YHSY-2	EA	1
SANSBV-13015	BALL VALVE NO ACC 2 1/8 SBV(M)-A17YHSY-1	EA	1

BALL VALVES (WITH ACCESS)

- Straightway type, full port, low pressure drop, cost-effective
- Optional with reinforced spring
- Valve body and valve seat with welded structure
- Bidirectional flow

Part No.	Description	Unit	Qty
SANSBV-13020	BALL VALVE WITH ACC 1/4 SBV-JA2YHSY-1	EA	1
SANSBV-13039	BALL VALVE WITH ACC 3/8 SBV-JA3YHSY-2	EA	1
SANSBV-13023	BALL VALVE WITH ACC 1/2 SBV-JA4YHSY-1	EA	1
SANSBV-13025	BALL VALVE WITH ACC 5/8 SBV-JA5YHSY-1	EA	1
SANSBV-13027	BALL VALVE WITH ACC 3/4 SBV-JA6YHSY-1	EA	1
SANSBV-13028	BALL VALVE WITH ACC 7/8 SBV-JA7YHSY-1	EA	1
SANSBV-13030	BALL VALVE WITH ACC 1 1/8 SBV-JA9YHSY-1	EA	1
SANSBV-13031	BALL VALVE WITH ACC 1 3/8 SBV-JA11YHSY-1	EA	1
SANSBV-13040	BALL VALVE WITH ACC 1 5/8 SBV-JA13YHSY-2	EA	1
SANSBV-13033	BALL VALVE WITH ACC 2 1/8 SBV-JA17YHSY-1	EA	1
SANSBV-13103	LOCKING RING TO SUIT 2 1/8 TO 2 5/8 BV	EA	1

SOLENOID VALVES

SOLENOID VALVES FLARE

- Direct operated or pilot operated solenoid valves - used in refrigerant control of various devices
- Coils: low energy consumption, reliable
- Great valve opening performance, high MOPD
- Suits refrigeration and freezing systems

Part No.	Description	X-Ref (approx capacity) Danfoss	Saginomiya	Castel	Sporlan	Unit	Qty
SANMDF-08040	SOL VALVE FLARE 1/4	EVR3	SEV502BXF	1020/2	A3F1	EA	1
SANMDF-08042	SOL VALVE FLARE 3/8	EVR6	SEV603BXF	1064/3	B6F1	EA	1
SANMDF-08044	SOL VALVE FLARE 1/2	EVR10	SEV1004BXF	1070/4	B10F2	EA	1
SANMDF-08046	SOL VALVE FLARE 5/8	EVR15	SEV1205BXF	1070/5	N/A	EA	1

SOLENOID VALVES SOLDER

- Direct operated or pilot operated solenoid valves - used in refrigerant control of various devices
- Coils: low energy consumption, reliable
- Great valve opening performance, high MOPD
- Suits refrigeration and freezing systems

Part No.	Description	X-Ref (approx capacity) Danfoss	Saginomiya	Castel	Sporlan	Unit	Qty
SANMDF-08002	SOL VALVE SOLDER 1/4	EVR3	SEV502DXF	1028/2	E3S120	EA	1
SANMDF-08004	SOL VALVE SOLDER 3/8	EVR6	SEV603DXF	1068/3	E9S230	EA	1
SANMDF-08006	SOL VALVE SOLDER 1/2	EVR10	SEV1004DXF	1078/4	E9S240	EA	1
SANMDF-08027	SOL VALVE SOLDER 5/8	EVR15	SEV1205DXF	N/A	E10S250	EA	1
SANMDF-08010	SOL VALVE SOLDER 7/8	EVR20	N/A	1098/7	E19S270	EA	1
SANMDF-08012	SOL VALVE SOLDER 7/8	EVR20	N/A	N/A	E35S1110	EA	1
SANMDF-08011	SOL VALVE SOLDER 1 1/8	EVR25	N/A	1099/9	E25S290	EA	1

SOLENOID VALVE COILS

- Direct operated or pilot operated solenoid valves - used in refrigerant control of various devices
- Coils: low energy consumption, reliable
- Great valve opening performance, high MOPD
- Suits refrigeration and freezing systems

Part No.	Description	Unit	Qty
SANMDF-60001	SOL VALVE COIL MDF 24V	EA	1
SANMDF-60003	SOL VALVE COIL MDF 240V	EA	1
SANMDF-60004	SOL VALVE COIL MDF 24V DC	EA	1

ELECTRONIC EXPANSION VALVES

SANHUA EEV T/S SERIES

- Precision flow with high resolution and high efficiency
- Adaptive superheat or load defined
- Superheat control algorithm

Part No.	Orifice	Connection	Nominal KW				Unit	Qty
			R-22**	R-134a**	R-404A**	R-410A**		
SANDPF-09001	1.3	1/4 solder	3.5	2.7	2.5	4.2	EA	1
SANDPF-09002	1.65	1/4 solder	5.3	4.1	3.7	6.4	EA	1
SANDPF-09003	1.8	1/4 solder	7	5.4	4.9	8.4	EA	1
SANDPF-09004	2	1/4 solder	8.8	6.7	6.1	10.5	EA	1
SANDPF-09005	2.2	1/4 solder	11	8.1	7.4	12.6	EA	1
SANDPF-09006	2.4	1/4 solder	18	13.5	12.3	21	EA	1
SANDPF-09007	3	5/16 solder	21	16.2	14.7	25.5	EA	1
SANDPF-09008	3.2	5/16 solder	28	21.6	19.5	33.6	EA	1
SANDPF-09010	4	5/8 solder	42	32.3	29.4	50.4	EA	1
SANDPF-09012	5.5	5/8 solder	70	53.9	49	84	EA	1
SANDPF-09013	6.5	5/8 solder	105	80.9	73.5	126	EA	1

SANHUA EXV COILS

- Coil suits Sanhua S Series

Part No.	Description	Unit	Qty
SANPQ-M03	COIL SUITS S SERIES SANHUA EEV	EA	1
SANPQ-M10	COIL SUITS T SERIES SANHUA EEV	EA	1

SANHUA PRESSURE TRANSDUCERS

- Using a 5V excitation input these sensors provide a 0.5-3.5V or 0.5-4.5V signal output proportional to the pressure of the medium
- This device requires no end-user amplification
- Widely used in air conditioning, refrigeration and heat pump systems

Part No.	Description	Unit	Qty
SANYCQB02H01	PRESSURE TRANSDUCER SOLDER TYPE 2M LEA	EA	1
SANYCQB02L12	PRESSURE TRANSDUCER THREAD TYPE 2M LEA	EA	1
SANYCQB02L28	PRESSURE TRANSDUCER THREAD TYPE 4.9M LEA	EA	1

REVERSING VALVES

REVERSING VALVES

- Suitable for cooling capacities from 3.6 - 420kW
- Switches between cooling mode and heating mode
- Wide application range

Part No.	Description	Ranco	Saginomiya	Unit	Qty
SANSHF-19008	REV VALVE SHF L-4H-23U-51 5/16 X 3/8 1		STF-0101G	EA	1
SANSHF-19009	REV VALVE SHF G-7C-34U 3/8 X 1/2 2 TON	V2-408064-2IL	STF-0202G	EA	1
SANSHF-19014	REV VALVE SHF L-11H-45D1-51 1/2 X 5/8 3	V3-410084-7IL	STF-0310G	EA	1
SANSHF-50022	REV VALVE SHF-20D-46-02 1/2 X 3/4 6 TON	V6-412084-1IL	STF-0408G	EA	1
SANSHF-50044	REV VALVE SHF-35B-47-04 1/2 X 7/8 10 TON	V10-414084-2IL		EA	1
SANSHF-50027	REV VALVE SHF-35B-67-04 3/4 X 7/8 10 TON	V10-414124-2IL	STF-0101G	EA	1
SANSHF-50048	REV VALVE SHF-35B-79-04 7/8 X 1 1/8 10 T	V10-418144-2IL	STF-00720G	EA	1
SANSHF-50016	REV VALVE SHF-50-911D2 1 1/8 X 1 3/8 11.	V12-4220T4-1IL	STF-2017G	EA	1

REVERSING VALVE COILS

- Coil to suit Sanhua reversing valves

Part No.	Description	Ranco	Saginomiya	Unit	Qty
SANSHF410FA4	REV VALVE COIL SANHUA 24V W/SPDE	LDL-11 (L30-120000-00)		EA	1
SANSHF-56005	REV VALVE COIL SQ-A25024-000001 24V LEAD	LDL-41		EA	1
SANSHF-56004	REV VALVE COIL SQ-A2511A-000001 110V LEA			EA	1
SANSHF410FA5	REV VALVE COIL SANHUA 240V W/SPDE	LDL-41 (L30-420000-57)		EA	1
SANSHF-56001	REV VALVE COIL SQ-A25 22G-00 0001 240V L	LDL-41		EA	1

TX VALVES

SANHUA THERMOSTATIC EXPANSION VALVES

- Used to adjust mass flow of refrigerant into the evaporator while controlling the refrigerants superheat at the outlet of the evaporator
- Exchangeable valve orifice
- Easy to stock holding
- Convenient for capacity match and repair

Part No.	Solder	Type	Danfoss	Parker	Alco	Unit	Qty
SANRFK-24001	SANRFK-24005	R22 INTERNAL	TX2	N/A	TI--HW	EA	1
SANRFK-24002	SANRFK-24006	R22 EXTERNAL	TEX2	N/A	TIE-HW	EA	1
SANRFK-24007	SANRFK-24011	R407C INTERNAL	TZ2	J8F-NW	N/A	EA	1
SANRFK-24008	SANRFK-24012	R407C EXTERNAL	TZE2	J8EF-NW	N/A	EA	1
SANRFK-24013	SANRFK-24017	R404 INTERNAL	TS2	J8F-SW	TI-SW	EA	1
SANRFK-24014	SANRFK-24018	R404 EXTERNAL	TES2	J8EF-SW	TIE-SW	EA	1
SANRFK-24019	SANRFK-24023	R134 INTERNAL	TN2	J8F-JW	TI-MW	EA	1
SANRFK-24020	SANRFK-24024	R134 EXTERNAL	TEN2	J8EF-SW	TIE-MW	EA	1

SANHUA TX VALVE ORIFICE

- Used to adjust mass flow of refrigerant into the evaporator while controlling the refrigerant
- Exchangeable valve orifice
- Easy to stock holding
- Convenient for capacity match and repair
- Superheats at the outlet of the evaporator

Part No.	Nominal KW				Unit	Qty
	R-22*	R-134a*	R-404*	R-407C***		
SANRFK-24036	0.5	0.33	0.35	0.5	EA	1
SANRFK-24037	1.1	0.68	0.7	1.1	EA	1
SANRFK-24038	2.5	1.6	1.7	2.7	EA	1
SANRFK-24039	3.5	2.2	2.4	3.9	EA	1
SANRFK-24040	5.6	3.5	3.9	6.3	EA	1
SANRFK-24041	8.1	4.9	5.6	8.8	EA	1
SANRFK-24042	10.6	6.7	7.4	11.3	EA	1
SANRFK-24043	16.9	10.6	12	18.3	EA	1

DANFOSS THERMOSTATIC EXPANSION VALVES

Part No.	Description	Unit	Qty
DANTN2	TN2 VALVE R134 INTERNAL FLARE	EA	1
DANTS2	TS2 VALVE R404 INTERNAL FLARE	EA	1
DANTX2	TX2 VALVE R22 INTERNAL FLARE	EA	1
DANTN2S	TN2S VALVE R134 INTERNAL SOL	EA	1
DANTS2S	TS2S VALVE R404 INTERNAL SOL	EA	1
DANTS2MOP	TS2 VALVE R404 MOP INT FLARE	EA	1
DANTX2S	TX2S VALVE R22 INTERNAL SOLDER	EA	1
DANTEN2	VALVE TEN2 R134 EXTERNAL FLARE	EA	1
DANTES2	TES2 VALVE R404 EXTERNAL FLARE	EA	1
DANTES2MOP	TES2 VALVE R404 MOP EXT FLARE	EA	1
DANTEX2	TEX2 VALVE R22 EXTERNAL FLARE	EA	1
DANTEN2S	VALVE TEN2S R134 EXTERNAL SOL.	EA	1
DANTES2S	TES2S VALVE R404 EXTERNAL SOL.	EA	1
DANTS2SMOP	TS2S VALVE R404 MOP INT SOLDER	EA	1
DANTEX2S	TEX2S VALVE R22 EXTERNAL SOL.	EA	1

DANFOSS ORIFICE T2 SERIES

- Orifice that suits: T2 Series valves from Danfoss

Part No.	Orifice No.	Rated Capacity (TR)				Rated Capacity (kW)				Unit	Qty
		R22	R407C	R134A	R404A R507	R22	R407C	R134A	R404A R507		
DANOR0X	0X	0.15	0.16	0.11	0.11	0.5	0.5	0.4	0.38	EA	1
DANOR00	0	0.3	0.3	0.25	0.21	1	1.1	0.9	0.7	EA	1
DANOR01	1	0.7	0.8	0.5	0.45	2.5	2.7	1.8	1.6	EA	1
DANOR02	2	1	1.1	0.8	0.6	3.5	3.8	2.6	2.1	EA	1
DANOR03	3	1.5	1.6	1.3	1.2	5.2	5.6	4.6	4.2	EA	1
DANOR04	4	2.3	2.5	1.9	1.7	8	8.6	6.7	6	EA	1
DANOR05	5	3	3.2	2.5	2.2	10.5	11.3	8.6	7.7	EA	1
DANOR06	6	4.5	4.9	3	2.6	15.5	16.7	10.5	9.1	EA	1

AIR CONDITIONING UNITS & INSTALLATION ACCESSORIES

Wall Mount Split System	31
Window Type Airconditioners	32
Hose Clamps	32
Mounting Blocks and Brackets	32
Dektite	35
Condensate Pumps and Accessories	36
Tapes	38
Brazing	39
PVC Drain Pipe	40
Electrical Cable	42
Electrical Accessories	43
Pacific Duct Plastic Capping	43

- Superior G10 inverter technology
- 6 year warranty
- Better air quality
- With Cozy at your side, you can fight the heat and still be kind to the environment. Energy efficient yet powerful, the Cozy is a high-energy inverter ductless split system that excels at single zone applications.
- Don't be fooled by its compact design.
- Despite its cooling power, the Cozy's quiet operation includes an intelligent Sleep function that adjusts to your sleep pattern in order to maximize comfort and suppress your energy costs.

WALL MOUNT SPLIT SYSTEM

GREE SPLIT SYSTEMS

- Energy efficient - quiet operation
- Self protection from external corrosion

Part No.	Description	Unit	Qty
GREAC02	GREE COZY 2.6KW HIWALL INVERTER SPLIT	EA	1
GREAC03	GREE COZY 3.5KW HIWALL INVERTER SPLIT	EA	1
GREAC05	GREE COZY 5KW HIWALL INVERTER SPLIT	EA	1
GREAC06	GREE COZY 6.3KW HIWALL INVERTER SPLIT	EA	1
GREAC07	GREE COZY 7KW HIWALL INVERTER SPLIT	EA	1
GREAC08	GREE COZY 8KW HIWALL INVERTER SPLIT	EA	1

ROWA INVERTERS

- WiFi with heat or cool function
- Refrigerant: R410A

Part No.	Description	Unit	Qty
ROWRAC-09CHSA/IFO	ROWA R410 2.5KW INVERTER SPLIT HEAT PUMP	EA	1
ROWRAC-12CHSA/IFO	ROWA R410 3.5KW INVERTER SPLIT HEAT PUMP	EA	1
ROWRAC-18CHSA/IFO	ROWA R410 5KW INVERTER SPLIT HEAT PUMP	EA	1
ROWRAC-24CHSA/IFO	ROWA R410 7KW INVERTER SPLIT HEAT PUMP	EA	1
ROWRAC-28CHSA/IFO	ROWA R410 8KW INVERTER SPLIT HEAT PUMP	EA	1

WINDOW TYPE AIRCONDITIONERS

GREE WINDOW AIRCONDITIONERS

Part No.	Description	Unit	Qty
GREAC5025	GREE WINDOW UNIT 2.7KW	EA	1
GREAC5026	GREE WINDOW UNIT 3.9KW	EA	1
GREAC5027	GREE WINDOW UNIT 5.3KW	EA	1
GREAC5028	GREE WINDOW UNIT 6KW	EA	1

ROWA

- Window type air conditioner
- Refrigerant: R410A
- Heat or cool function

Part No.	Description	Unit	Qty
ROWRAC-CW09	ROWA R410A 2.6KW REV CYC RAC WITH RC	EA	1
ROWRAC-CW13	ROWA R410A 3.6KW REV CYC RAC WITH RC	EA	1

HOSE CLAMPS

HOSE CLAMPS

- Stainless steel hose clamp
- Flexible high strength band

Part No.	Description	Unit	Qty
PRFP2050	HOSE CLAMP 10-16MM PK5	EA	1
PRFP2052	HOSE CLAMP 16-25MM PK5	EA	1
PRFP2054	HOSE CLAMP 20-32MM PK5	EA	1

MOUNTING BLOCKS AND BRACKETS

WALL MOUNTING BRACKETS

- Adjustable wall bracket
- Powdercoated

Part No.	Description	Unit	Qty
VDWB150	BRKT WALL ADJ W/ LEVEL 100 - 150KG	EA	1
VDWB250	BRKT WALL ADJ W/ LEVEL 150 - 200KG	EA	1

MOUNTING BLOCKS

- Rubber mount block
- Durable
- Lightweight

Part No.	Description	Unit	Qty
HRP450B	MOUNT BLOCK RUBBER 45X95X450B	EA	1
HRP900	MOUNT BLOCK RUBBER 65X95X900	EA	1
HRP900B	MOUNT BLOCK RUBBER 65X95X900B	EA	1

BIG FOOT H FRAME SMALL 305MM

Unit: EA Qty: 1

Part No. PPB6088

- The H Frame Set is a quick, versatile and economical solution for supporting pipework, duct, cable ladders/trays or any combination of these
- You provide your own strut, keeping the duct and pipe installations low cost
- Keeps the installation flexible by fabricating the framework on-site

- The seven sizes of Fix-it Foot are a neat and tidy roof top support solution from Big Foot
- Feet have 40mm x 20mm aluminium channel recessed into the top face for easy fixing of services
- Suitable for pipework, duct and cable tray runs

Part No.	Description	Unit	Qty
PPB6737	FIX IT FOOT LARGE 600X180X95	EA	1
PPB9096	FIX IT FOOT 1000X180X95	EA	1
PRB9368SET	500MM FIX IT FOOT/PAIR	EA	1

BI-EXTRUDED PVC BLOCKS 450MM 700KG PAIR

Unit: EA Qty: 1

Part No. VEC989803608P

- Lightweight
- Durable

75MM RUBBER MOUNT BLOCKS (4) SET

Unit: EA Qty: 1

Part No. VEZYPRM75

- Rubber mount blocks
- Size: 75mm
- Compact design
- Low noise
- Easy install

RUBBER MOUNT AND WAFFLE PADS

- Waffle vibration pad
- Made of caoutchouc (natural rubber)
- Used for foot to separate shake and reduce noise
- Widely applied in air-conditioner outdoor machines and generators

Part No.	Description	Unit	Qty
VPADWFL0300	PERFORATED WAFFLE PAD 300X300	EA	1
HRP400	MOUNT PAD 35MM HIGH RUBBER 4PK	EA	1
HRP450S	SHEET GRID RUBBER 450X450X16MM	EA	1
VPADWFL0450	PAD WAFFLE VIBRATION 450 X 450	EA	1

ROOF MOUNTING BRACKETS

ROOF MOUNT BRACKET ADJ 150KG

Unit: EA Qty: 1

Part No. VEZYPP24

- Adjustable roof bracket
- Weight: 150Kg
- Fully adjustable

THREADED ROD

M10 THREADED ROD 3M ZP

Unit: EA Qty: 1

Part No. PRPTR10Z

- Has a thread along the entire length of the rod
- Cut into desired lengths and then use to suspend components

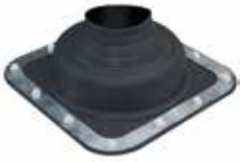
POLYSLABS

- Polyslab A/C Base

Part No.	Description	Unit	Qty
REPSAC-MED	POLYSLAB A/C BASE MED 885 X 465 X 51	EA	1
REPSAC-SML	POLYSLAB A/C BASE SMALL 640 X 330 X 51	EA	1

DEKTITE

DEKTITE PREMIUM BLACK



- Dektite premium base
- Colour: Black
- Size: 0 to 35mm

Part No.	Description	Unit	Qty
DEKDFE100BS	DEKTITE PREMIUM 0-35MM BLK	EA	1
DEKDFE101BS	DEKTITE PREMIUM 5-55MM BLK	EA	1
DEKDFE102BA	DEKTITE PREMIUM 50-70MM BLK	EA	1
DEKDFE103B	DEKTITE PREMIUM 5-127MM BLK	EA	1
DEKDFE104B	DEKTITE PREMIUM 75-175MM BLK	EA	1
DEKDFE105B	DEKTITE PREMIUM 100-200MM BLK	EA	1
DEKDFE106B	DEKTITE PREMIUM 125-230MM BLK	EA	1
DEKDFE107B	DEKTITE PREMIUM 150-300MM BLK	EA	1
DEKDFE10MB	DEKTITE PREMIUM 0-20MM BLK	EA	1
DEKDNLS102B	DEKTITE NULEAD #2 BLK(50-70MM)410X490MM	EA	1
DEKDTHRKIT110	DEKS TOP HAT ROOF KIT 110MM	EA	1
DEKDTHRKIT65	DEKS TOP HAT ROOF KIT 65MM	EA	1
DEKDTHRKIT80	DEKS TOP HAT ROOF KIT 80MM	EA	1

CONDENSATE PUMPS AND ACCESSORIES

BLUE DIAMOND PUMPS

- Patented rotary diaphragm technology
- Runs dry without an overheating failure
- Self priming, runs silent when either wet or dry

Part No.	Description	Nominal Litres/HR @ 0 Head	Litres/HR @ Max Head	Max Discharge Head (m)	Max Suction Head (m)	Unit	Qty
ZMINIBLUE	CONDENSATE PUMP 8L	8	5.5	8	5	EA	1
ZMAXIBLUE	CONDENSATE PUMP 14L	14	8	8	8	EA	1
ZMAXIBLUER	CONDENSATE PUMP W/RES 14L	14	8	8	8	EA	1
ZBDIAMOND	CONDENSATE PUMP 50L	50	17	20	7	EA	1
ZBDIAMONDR	CONDENSATE PUMP W/RES 50L	50	17	20	7	EA	1

MINI BLUE R WITH RESERVOIR

Unit: EA Qty: 1

Part No. ZMINIBLUE-R

- 8 litres/hour flow, 8 metres head, 5 metres suction lift

MINI BLUE SENSOR

Unit: EA Qty: 1

Part No. ZMINIBLUES

- Mounts in air inlet and outlet of room unit
- Senses when cooling occurs
- Runs pump constantly when air conditioner is on

SILENCER

Unit: EA Qty: 1

Part No. ZSILENCER

- Suits Maxi Blue and Blue Diamond
- Prevents slurping when no condensate is present in the reservoir

PUMP ACCESSORIES

- Transfers air, water, oil etc. at low pressure
- Temperature range 0 to 50 degrees Celsius
- Highly flexible, lightweight, corrosive and abrasion resistant

Part No.	Description	Unit	Qty
ZCVT630	VINYL TUBING CLEAR 6MM X 30M	EA	1
ZCVT6100	VINYL TUBING CLEAR 6MM X 100M	EA	1
ZCVT1030	VINYL TUBING CLEAR 10MM X 30M	EA	1
PRFP3006	CLEAR VINYL TUBING 6MM X 3M	EA	1

ASPEN

- Mini Blanc Condensate Pump
- 12 litres/hour max
- Great installation flexibility

Part No.	Description	Nominal Litres/HR @ 0m Head	Litres/min @ Max Head	Max Discharge Head (m)	Max Suction Head (m)	Unit	Qty
PRFP1080	MINI BLANC CONDENSATE PUMP	12	4	10	N/A	EA	1
PRFP2212	MINI ORANGE CONDENSATE PUMP	12	6	10	2	EA	1
PRFP3312	MINI LIME SILENT CONDENSATE PUMP	12	0	10	N/A	EA	1
PRFP3349	ASPEN MK4 MAX TANK PUMP	6.5	6.5	12	3	EA	1

EVAP COOLER PUMP

- 50 watts
- Powerful split capacitor motor

Part No.	Description	Nominal Litres/min @ 1m Head	Litres/min @ 2m Head	Unit	Qty
VEBM40JB	EBM40JB EVAP COOLER PUMP	35	25	EA	1

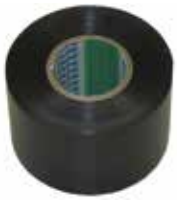
FASCO

- JRM Evaporative Cooler Pump
- Long life ball bearings
- Quiet running

Part No.	Description	Nominal Litres/min @ 600mm Head	Litres/min @ 1600mm Head	Unit	Qty
CG101010	PUMP FASCO JRM 38 EVAP COOLER	29.5	23	EA	1
CG101006	PUMP FASCO JRM 50 EVAP COOLER	38	30.5	EA	1

TAPES

DUCT TAPE



- NITTO black duct tape
- Size: 50mm

Part No.	Description	Unit	Qty
VCNTPD050B	NITTO 50MM BLACK DUCT TAPE	EA	1
VCNTPD050G	NITTO 50MM GREY DUCT TAPE	EA	1
VCNTPD050W	NITTO 50MM WHITE DUCT TAPE	EA	1

FOIL TAPE

- Waterproof
- High adhesion

Part No.	Description	Unit	Qty
VCNTSF48	FOIL TAPE STD 48MM X 50M	EA	1
VCNTSF75	FOIL TAPE STD 75MM X 50M	EA	1
VCNTRF48	FOIL TAPE REINFORCED 48MM 50M	EA	1
VCNTRF75	FOIL TAPE REINFORCED 75MM 50M	EA	1
VCNTRF100	FOIL TAPE REINFORCED 100MM 50M	EA	1

INSULATION TAPE

- Type: Foam insulation
- High pressure resistant

Part No.	Description	Unit	Qty
PRAP-703	FOAM INSUL TAPE 50MM	EA	1
VSET500B	INSULATION TAPE ELEC 18MM BLACK	EA	1
PRCT-302	TAPE INSUL TACKY CORK	EA	1

BRAZING

DYNAFLOW

- Alloy contains less silver
- Low cost

Part No.	Description	Unit	Qty
DYNAFLOWFLAT	DYNAFLOW 1.3MM X 3.2MM X 496 1KG FLAT	EA	1
DYNAFLOWFLAT-EA	DYNAFLOW 1.3MM X 3.2MM X 496 1 EA FLAT	EA	1
DYNAFLOWROUND	DYNAFLOW 2.4MM X 505MM 1KG ROUND	EA	1
DYNAFLOWROUND-EA	DYNAFLOW 2.4MM X 505MM 1 EA ROUND	EA	1

FLUX

HARRIS ECO SMART FLUX COLOUR CHANGE 250G

Unit: EA Qty: 1

Part No. ACR800ESF250PG

- Penetrates tight joints
- For brazing steel, stainless steel, copper, brass and other ferrous and non ferrous metals

CLEAR PVC CONNECTORS

Part No.	Description	Unit	Qty
PRFP2020	STRAIGHT REDUCER 10-6MM PK5	EA	1
PRFP2024	EQUAL TEE CONN 6MM PK5	EA	1
PRFP2028	ELBOW CONN 6MM PK5	EA	1
PRFP2030	EQUAL TEE CONN 10MM PK5	EA	1
PRFP2032	ELBOW CONN 10MM PK 5	EA	1
PRFP2622	STRAIGHT CONNECTOR 6MM 5PK	EA	1
PRFP2624	STRAIGHT CONNECTOR 10MM 5PK	EA	1

PVC DRAIN PIPE

AC&R DRAIN PIPE

• AC&R Drain Pipe 3.9 metres long

Part No.	Description	Unit	Qty
PR15XCE	DRAIN PIPE 3.9M AC&R 15MM	EA	1
PR20XCE	DRAIN PIPE 3.9M AC&R 20MM	EA	1
PR25XCE	DRAIN PIPE 3.9M AC&R 25MM	EA	1

90 DEGREE EQUAL ELBOW

• Equal elbow

Part No.	Description	Unit	Qty
PR2103015	ELBOW EQUAL 15MM	EA	1
PR2103020	ELBOW EQUAL 20MM	EA	1
PR2103025	ELBOW EQUAL 25MM	EA	1

45 DEGREE EQUAL ELBOW

• 45 degree elbow

Part No.	Description	Unit	Qty
PR2117015	ELBOW 45DEG 15MM	EA	1
PR2117020	ELBOW 45DEG 20MM	EA	1
PR2117025	ELBOW 45DEG 25MM	EA	1

EQUAL TEE

• Equal tee

Part No.	Description	Unit	Qty
PR2106015	TEE EQUAL 15MM	EA	1
PR2106020	TEE EQUAL 20MM	EA	1
PR2106025	TEE EQUAL 25MM	EA	1

DOUBLE END SOCKET

- Double end socket

Part No.	Description	Unit	Qty
PR2108015	SOCKET DOUBLE END 15MM	EA	1
PR2108020	SOCKET DOUBLE END 20MM	EA	1
PR2108025	SOCKET DOUBLE END 25MM	EA	1

FULL SADDLES

- Suitable for PVC pipe applications
- Powder coated white

Part No.	Description	Unit	Qty
PRPPS084	FULL SADDLE -WHITE 15 100PK	EA	1
PRPPS106	FULL SADDLE-WHITE 20 100PK	EA	1
PRPPS143	FULL SADDLE-WHITE 25 100PK	EA	1

SOLVENT CEMENT

- Clear solvent

Part No.	Description	Unit	Qty
PRNO70100	SOLVENT CLEAR 100G	EA	1
PRNO70500	SOLVENT CLEAR 500G	EA	1

AC&C DRAIN HOSE

DRAIN HOSE 16MM X 50M

Unit: EA Qty: 1

Part No. VEZYFDP16

- Flexible drain hose
- Length: 50m
- Size: 16mm

ELECTRICAL CABLE

THERMON HEATER CABLE

Part No.	Description	Unit	Qty
TFLX-10-2BC-20M	FLX-10-2 BC-20M PARALLEL SELF REGULATING	EA	1
TFLX-10-2BC-5M	FLX-10-2 BC-5M PARALLEL SELF REGULATING	EA	1
TSX-TERM-1-BC	SX-TERM-1-BC POWER & END TERMINATION KIT	EA	1
TCCH-2	CCH-2 CRANKCASE HEATER	EA	1

FLAT WHITE T.P.S CABLE

• T.P.S cable

Part No.	Description	Unit	Qty
VCBSDI7067VRD	CABLTPS2.5MM7/0.67 1CORE450/750V 100M	EA	1

OUTDOOR TO INDOOR BLUE AC CABLE

• T.P.S cable - blue

Part No.	Description	Unit	Qty
VCBFT3E7050N	INDR OUTDR 1.5MM 7/0.50 FLAT CBL BL 100M	EA	1
VCBFT3E7067N	INDOOR-OUTDOOR 2.5MM FLAT CABL BLUE 100M	EA	1

• T.P.S cable

Part No.	Description	Unit	Qty
VCBFT2E7050V	CABLE WHT TPS1.5MM7/0.50 2COREETH 100M	EA	1
VCBFT3E7050V	CABLE WHT TPS 1.5MM 7/0.50 3COREETH 100M	EA	1
VCBFT2E7067V	CABLE WHT TPS2.5MM 7/0.67 2COREETH 100M	EA	1
VCBOC3E7067V1	CABLE 2.5MM 3COR+ETH 750V ORANGE 100M	EA	1
VCBOC4E7067V1	CABLE 2.5MM 4COR+ETH 750V ORANGE 100M	EA	1

ELECTRICAL ACCESSORIES

ISOLATORS

- Isolator switch
- Weather proof

Part No.	Description	Unit	Qty
VWPS1-20	ISOLATOR W/PROOF SWITCH 1P IP66 20 AMP	EA	1
VWPS3-20	ISOLATOR W/PROOF SWITCH 3P IP66 20 AMP	EA	1
VWPS3-35	ISOLATOR W/PROOF SWITCH 3P IP66 35AMP	EA	1
VWPSS-20	ISOLATOR W/PROOF MINI SW 1P IP66 20AMP	EA	1
VWPS2-20	20A DOUBLE POLE ISOLATION SWITCH	EA	1
VWPISTAND	ISOLATOR STAND	EA	1
VWPS1-35	WEATHER PROOF ISO SWITCH 1POLE IP66 35A	EA	1

PACIFIC DUCT PLASTIC CAPPING

WALL DUCT

- Flame retardant
- Slotted knockouts
- Rustproof fittings

Part No.	Description	Unit	Qty
PRPSD7	PIPE DUCT 75MM 2M LTH	EA	1
PRPSD10	PIPE DUCT 100MM 2M LTH	EA	1

WALL CAP

- High grade PVC
- Superior UV resistance
- Rustproof

Part No.	Description	Unit	Qty
PRPSWA7	WALL INLET-ONE PIECE 75MM	EA	1
PRPSWA10	WALL INLET-ONE PIECE 100MM	EA	1

WALL PLATE 2PC

- High grade PVC
- Superior UV resistance
- Rustproof

Part No.	Description	Unit	Qty
PRPSCA7	WALL PLATE 2PCE 75MM	EA	1
PRPSCA10	WALL PLATE 2PCE 100MM	EA	1

90 DEGREE FLAT ELBOW

- High grade PVC
- Superior UV resistance
- Rustproof

Part No.	Description	Unit	Qty
PRPSK7	90 DEG FLAT ELBOW 75MM	EA	1
PRPSK10	90 DEG FLAT ELBOW 100MM	EA	1

45 DEGREE FLAT ELBOW

- High grade PVC
- Superior UV resistance
- Rustproof

Part No.	Description	Unit	Qty
PRPSKF7	45 DEG FLAT ELBOW 75MM	EA	1
PRPSKF10	45 DEG FLAT ELBOW 100MM	EA	1

90 DEGREE CORNER ELBOW

- High grade PVC
- Superior UV resistance
- Rustproof

Part No.	Description	Unit	Qty
PRPSC7	90DEG CORNER ELBOW 75MM	EA	1
PRPSC10	90DEG CORNER ELBOW 100MM	EA	1

JOINERS

- High grade PVC
- Superior UV resistance
- Rustproof

Part No.	Description	Unit	Qty
PRPSJ7	DUCT JOINER 75MM	EA	1
PRPSJ10	DUCT JOINER 100MM	EA	1
PRPSF75	FLEX JOINT 75MM 500MM LONG	EA	1
PRPSF710	FLEX JOINT 75MM 1000MM LONG	EA	1
PRPSF108	FLEX JOINT 100MM 800M LONG	EA	1

REDUCERS

REDUCER 100 TO 75MM

Unit: EA Qty: 1

Part No. PRPSDR107

- High grade PVC
- Superior UV resistance
- Rustproof

CEILING CAPS

- High grade PVC
- Superior UV resistance
- Rustproof

Part No.	Description	Unit	Qty
PRPSP7	CEILING CAP 75MM	EA	1
PRPSP10	CEILING CAP 100MM	EA	1

END COVERS

- High grade PVC
- Superior UV resistance
- Rustproof

Part No.	Description	Unit	Qty
PRPSE7	END COVER 75MM	EA	1
PRPSE10	END COVER 100MM	EA	1

TUBING & FITTINGS

Paircoil	47
Soft Drawn	47
Hard Drawn	48
Piping Insulation	49
Pipe Accessories	51
Copper	59
Brass	60

PAIRCOIL

PAIRCOIL

- Insulated pair coil
- Length: 20m
- Suit: R410A

Part No.	Description	Unit	Qty
PC1438	PAIRCOIL 1/4 X 3/8 R410A 20M	EA	1
PC1412	PAIRCOIL 1/4 X 1/2 R410A 20M	EA	1
PC1458	PAIRCOIL 1/4 X 5/8 R410A 20M	EA	1
PC3858	PAIRCOIL 3/8 X 5/8 R410A 20M	EA	1
PC3834	PAIRCOIL 3/8 X 3/4 R410A 20M	EA	1
PC1234	PAIRCOIL 1/2 X 3/4 R410A 20M	EA	1
PCFR1458-13	FRPAIR 20MCOIL 1/4-5/8 13MMIN R410A	EA	1
PCFR1458-19	FRPAIR 15MCOIL 1/4-5/8 19MMIN R410A	EA	1
PCFR3858-13	FRPAIR 20MCOIL 3/8-5/8 13MMIN R410A	EA	1
PCFR3858-19	FRPAIR 15MCOIL 3/8-5/8 19MMIN R410A	EA	1
PCFR3834-13	FRPAIR 20MCOIL 3/8-3/4 13MMIN R410A	EA	1
PCFR3834-19	FRPAIR 15MCOIL 3/8-3/4 19MMIN R410A	EA	1

SOFT DRAWN

SOFT DRAWN

- Pancake coil
- Soft drawn copper tube

Part No.	Description	Unit	Qty
SD1421CL	PANCAKE COIL (6.35X0.81)X30M R410A-1/4	EA	1
SD3821CL	PANCAKE COIL (9.52X0.81)X18M R410A-3/8	EA	1
SD1221CL	PANCAKE COIL (12.7X0.81)X18M R410A-1/2	EA	1
SD5819CL	PANCAKE COIL (15.88X1.02)X18M R410A-5/8	EA	1
SD34185CL	PANCAKE COIL (19.05X1.14)18M R410A-3/4	EA	1
SD7817CL	PANCAKE COIL (22.23X1.40)X18M R410A-7/8	EA	1

HARD DRAWN

HARD DRAWN

- Tube hd x
- Hard drawn copper tube

Part No.	Description	Unit	Qty
HD1421S	TUBE HD (6.35X0.81)X6M R410A-1/4	EA	1
HD3821S	TUBE HH (9.52X0.81)X6M R410A-3/8	EA	1
HD1221S	TUBE HH (12.7X0.81)X6M R410A-1/2	EA	1
HD5819S	TUBE HH (15.88X1.02)X6M R410A-5/8	EA	1
HD3420S	TUBE HH (19.05X0.91)X6M-3/4	EA	1
HD34185S	TUBE HH (19.05X1.14)X6M R410A-3/4	EA	1
HD7820S	TUBE HH (22.23X0.91)X6M-7/8	EA	1
HD7817S	TUBE HD (22.23X1.40)X6M R410A-7/8	EA	1
HD120S	TUBE HD (25.4X0.91)X6M-1	EA	1
HD116S	TUBE HD (25.4X1.63)X6M R410A-1	EA	1
HD11820S	TUBE HD (28.58X0.91)X6M-1 1/8	EA	1
HD11815S	TUBE HD (28.58X1.83)X6M R410A-1 1/8	EA	1
HD11414S	TUBE HD (31.75X2.03)X6M R410A-1 1/4	EA	1
HD13814S	TUBE HD (34.90X2.03)X6M R410A-1 3/8	EA	1
HD11213S	TUBE HD (38.10X2.29)X6M R410A-1 1/2	EA	1
HD15820S	TUBE HD (41.28 X0.91)X6M-1 5/8	EA	1
HD15818S	TUBE HD (41.28X1.22)X6M-1 5/8	EA	1
HD21818S	TUBE HD (54.0X1.22)X6M-2 1/8	EA	1
HD25818S	TUBE HH (67.0X1.14)X6M R410A-3/4	EA	1

9MM PIPING INSULATION

- Closed cell synthetic rubber solution for high temperatures
- Environmentally friendly and tested to Aus standards
- Prevents mould growth

Part No.	Description	Unit	Qty
DEKDIS09-006	INSUL DEKS 9MM WALLX6MM IDX2M	EA	1
DEKDIS09-010	INSUL DEKS 9MM WALLX10MM I.DX2M	EA	1
DEKDIS09-012	INSUL DEKS 9MM WALLX12MM IDX2M	EA	1
DEKDIS09-015	INSUL DEKS 9MM WALLX15MM IDX2M	EA	1
DEKDIS09-020	INSUL DEKS 9MM WALLX20MM IDX2M	EA	1
DEKDIS09-022	INSUL DEKS 9MM WALLX22MM IDX2M	EA	1
DEKDIS09-025	INSUL DEKS 9MM WALLX25MM IDX2M	EA	1
DEKDIS09-028	INSUL DEKS 9MM WALLX28MM IDX2M	EA	1
DEKDIS09-032	INSUL DEKS 9MM WALLX32MM IDX2M	EA	1
DEKDIS09-067	INSUL DEKS 9MM WALLX67MM IDX2M	EA	1

PIPING INSULATION

13MM PIPING INSULATION

- Closed cell synthetic rubber solution for high temperatures
- Environmentally friendly and tested to Aus standards
- Prevents mould growth

Part No.	Description	Unit	Qty
DEKDIS13-010	INSUL DEKS 13MM WALLX10MM IDX2M	EA	1
DEKDIS13-012	INSUL DEKS 13MM WALLX12MM IDX2M	EA	1
DEKDIS13-015	INSUL DEKS 13MM WALLX15MM IDX2M	EA	1
DEKDIS13-020	INSUL DEKS 13MM WALLX20MM IDX2M	EA	1
DEKDIS13-022	INSUL DEKS 13MM WALLX22MM IDX2M	EA	1
DEKDIS13-025	INSUL DEKS 13MM WALLX25MM IDX2M	EA	1
DEKDIS13-028	INSUL DEKS 13MM WALLX28MM IDX2M	EA	1
DEKDIS13-032	INSUL DEKS 13MM WALLX32MM IDX2M	EA	1
DEKDIS13-040	INSUL DEKS 13MM WALLX40MM I.DX2M	EA	1
DEKDIS13-042	INSUL DEKS 13MM WALLX42MM IDX2M	EA	1
DEKDIS13-050	INSUL DEKS 13MM WALLX50MM IDX2M	EA	1
DEKDIS13-060	INSUL DEKS 13MM WALLX60MM IDX2M	EA	1

15MM PIPING INSULATION

- Closed cell synthetic rubber solution for high temperatures
- Environmentally friendly and tested to Aus standards
- Prevents mould growth

Part No.	Description	Unit	Qty
DEKDIS15-012UV	INSUL ISOPIPE 15MM WALLX12MM ID UV 2M	EA	1
DEKDIS15-020UV	INSUL ISOPIPE 15MM WALLX20MM ID UV 2M	EA	1
DEKDIS15-12UV-25	INSUL DEKS 15MM WALLX12MM ID UV 25M	EA	1
DEKDIS15-20UV-20	INSUL DEKS 15MM WALLX20MM ID UV 20M	EA	1

19MM PIPING INSULATION

- Closed cell synthetic rubber solution for high temperatures
- Environmentally friendly and tested to Aus standards
- Prevents mould growth

Part No.	Description	Unit	Qty
DEKDIS19-012	INSUL DEKS 19MM WALLX12MM I.DX2M	EA	1
DEKDIS19-015	INSUL DEKS 19MM WALLX15MM IDX2M	EA	1
DEKDIS19-020	INSUL DEKS 19MM WALLX20MM IDX2M	EA	1
DEKDIS19-022	INSUL DEKS 19MM WALLX22MM IDX2M	EA	1
DEKDIS19-025	INSUL DEKS 19MM WALLX25MM IDX2M	EA	1
DEKDIS19-028	INSUL DEKS 19MM WALLX28MM IDX2M	EA	1
DEKDIS19-032	INSUL DEKS 19MM WALLX32MM IDX2M	EA	1
DEKDIS19-054	INSUL DEKS 19MM WALLX54MM IDX2M	EA	1
DEKDIS19-080	INSUL DEKS 19MM WALLX80MM IDX2M	EA	1
DEKDIS19-101	INSUL DEKS 19MM WALLX101MM IDX2M	EA	1

25MM PIPING INSULATION

- Closed cell synthetic rubber solution for high temperatures
- Environmentally friendly and tested to Aus standards
- Prevents mould growth

Part No.	Description	Unit	Qty
DEKDIS25-010	INSUL DEKS 25MM WALLX10MM IDX2M	EA	1
DEKDIS25-012	INSUL DEKS 25MM WALLX12MM IDX2M	EA	1
DEKDIS25-015	INSUL DEKS 25MM WALLX15MM IDX2M	EA	1
DEKDIS25-020	INSUL DEKS 25MM WALLX20MM IDX2M	EA	1
DEKDIS25-022	INSUL DEKS 25MM WALLX22MM IDX2M	EA	1
DEKDIS25-025	INSUL DEKS 25MM WALLX25MM IDX2M	EA	1
DEKDIS25-028	INSUL DEKS 25MM WALLX28MM IDX2M	EA	1
DEKDIS25-032	INSUL DEKS 25MM WALLX32MM IDX2M	EA	1
DEKDIS25-035	INSUL DEKS 25MM WALLX35MM IDX2M	EA	1
DEKDIS25-054	INSUL DEKS 25MM WALLX54MM IDX2M	EA	1
DEKDIS25-067	INSUL DEKS 25MM WALLX67MM IDX2M	EA	1
DEKDIS25-076	INSUL DEKS 25MM WALLX76MM IDX2M	EA	1
DEKDIS25-080	INSUL DEKS 25MM WALLX80MM IDX2M	EA	1
DEKDIS25-101	INSUL DEKS 25MM WALLX101MM IDX2M	EA	1
DEKDIS25-114	INSUL DEKS 25MM WALLX114MM IDX2M	EA	1

INSULCLIPS

- Insulates against heat loss
- Reduces vibration

Part No.	Description	Unit	Qty
FLFM132R14	INSULCLIP 1/4IN	EA	1
FLFM132R38	INSULCLIP 3/8IN	EA	1
FLFM132R12	INSULCLIP 1/2IN	EA	1
FLFM132R58	INSULCLIP 5/8IN	EA	1
FLFM132R34	INSULCLIP 3/4IN	EA	1
FLFM132R78	INSULCLIP 7/8IN	EA	1
FLFM132R118	INSULCLIP 1 1 /8IN	EA	1
FLFM132R114	INSULCLIP 1 1/4IN	EA	1
FLFM132R138	INSULCLIP 1 3/8IN	EA	1
FLFM132R158	INSULCLIP 1 5/8IN	EA	1
FLFM132R218	INSULCLIP 2 1/8IN	EA	1
FLFM132R258	INSULCLIP 2 5/8IN	EA	1
FLFM132R318	INSULCLIP 3 1/8IN	EA	1
FLFM132R418	INSULCLIP 4.1/8IN	EA	1

PIPE ACCESSORIES

COPPER PIPE CLIPS

- Ensured longevity due to removing stress and fatigue focus points
- Material: Copper
- Reduced risk of premature failure due to quality of manufacture

Part No.	Description	Unit	Qty
ACR11504	PIPE SADDLE 1/4IN	EA	1
ACR11505	PIPE SADDLE 5/16IN	EA	1
ACR11506	PIPE SADDLE 3/8IN	EA	1
ACR11508	PIPE SADDLE 1/2IN	EA	1
ACR11510	PIPE SADDLE 5/8IN	EA	1
ACR11512	PIPE SADDLE 3/4IN	EA	1
ACR11514	PIPE SADDLE 7/8IN	EA	1
ACR11516	PIPE SADDLE 1IN	EA	1
ACR11518	PIPE SADDLE 1 1/8IN	EA	1
ACR11520	PIPE SADDLE 1 1/4IN	EA	1
ACR11522	PIPE SADDLE 1 3/8IN	EA	1
ACR11526	PIPE SADDLE 1 5/8IN	EA	1
ACR11534	PIPE SADDLE 2 1/8IN	EA	1
ACR11540	PIPE SADDLE 2 1/2IN	EA	1

COPPER ELBOWS ID X ID

- Suitable for R410A refrigerant and CO2 gas
- Material: Copper
- Reduced risk of premature failure due to quality of manufacture
- Burst tested with batch verification to ensure reliability

Part No.	Description	R-410A	CO2	Unit	Qty
ACR1030404	90DEG ELBOW 1/4ID X 1/4ID R410A	Yes	Yes	EA	1
ACR1030606	90DEG ELBOW 3/8ID X 3/8ID R410A	Yes	Yes	EA	1
ACR1030808	90DEG ELBOW 1/2ID X 1/2ID R410A	Yes	Yes	EA	1
ACR1031010	90DEG ELBOW 5/8ID X 5/8ID R410A	Yes	Yes	EA	1
ACR1031212	90DEG ELBOW 3/4ID X 3/4ID R410A	Yes		EA	1
ACR1031414	90DEG ELBOW 7/8ID X 7/8ID R410A	Yes		EA	1
ACR1031616	90DEG ELBOW 1 ID X 1 ID R410A	Yes		EA	1
ACR1031818	90DEG ELBOW 1 1/8ID X 1 1/8ID			EA	1
ACR1031818-R410A	90DEG ELBOW 1 1/8ID X 1 1/8ID R410A	Yes		EA	1
ACR1032020	90DEG ELBOW 1 1/4ID X 1 1/4ID			EA	1
ACR1032020-R410A	90DEG ELBOW 1 1/4ID X 1 1/4ID R410A	Yes		EA	1
ACR1032222	90DEG ELBOW 1 3/8ID X 1 3/8ID			EA	1
ACR1032222-R410A	90DEG ELBOW 1 3/8ID X 1 3/8ID R410A	Yes		EA	1
ACR1032424	90DEG ELBOW 1 1/2ID X 1 1/2ID			EA	1
ACR1032424-R410A	90DEG ELBOW 1 1/2ID X 1 1/2ID R410A	Yes		EA	1
ACR1032626	90DEG ELBOW 1 5/8ID X 1 5/8ID			EA	1
ACR1032626-R410A	90DEG ELBOW 1 5/8 X 1 5/8 R410A	Yes		EA	1
ACR1033232	90DEG ELBOW 2 ID X 2 ID			EA	1
ACR1033434	90DEG ELBOW 2 1/8ID X 2 1/8ID			EA	1
ACR1034242	90DEG ELBOW 2 5/8ID X 2 5/8ID			EA	1
ACR1034848	90DEG ELBOW 3 ID X 3 ID			EA	1
ACR1035050	90DEG ELBOW 3 1/8ID X 3 1/8ID			EA	1

COPPER ELBOWS 90 DEGREE M/F OD X ID

- Suitable for R410A refrigerant and CO2 gas
- Material: Copper
- Reduced risk of premature failure due to quality of manufacture
- Burst tested with batch verification to ensure reliability

Part No.	Description	R-410A	CO2	Unit	Qty
ACR1020606	ELBOW 3/8OD X 3/8ID R410A	Yes	Yes	EA	1
ACR1020808	ELBOW 1/2OD X 1/2ID R410A	Yes	Yes	EA	1
ACR1021010	ELBOW 5/8OD X 5/8ID R410A	Yes	Yes	EA	1
ACR1021212	ELBOW 3/4OD X 3/4ID R410A	Yes		EA	1
ACR1021414	ELBOW 7/8OD X 7/8ID R410A	Yes		EA	1
ACR1021616	ELBOW 1 OD X 1 ID	Yes		EA	1
ACR1021818	ELBOW 1 1/8OD X 1 1/8ID	Yes		EA	1
ACR1022020	ELBOW 1 1/4OD X 1 1/4ID			EA	1
ACR1022222	ELBOW 1 3/8OD X 1 3/8ID			EA	1
ACR1022424	ELBOW 1 1/2OD X 1 1/2ID			EA	1
ACR1022626	ELBOW 1 5/8OD X 1 5/8ID			EA	1
ACR1023434	ELBOW 2 1/8OD X 2 1/8ID			EA	1
ACR1024242	ELBOW 2 5/8OD X 2 5/8ID			EA	1

COPPER ELBOWS 90 DEGREE SHORT RADIUS ID X ID

- Suitable for R410A refrigerant and CO2 gas
- Material: Copper
- Reduced risk of premature failure due to quality of manufacture
- Burst tested with batch verification to ensure reliability

Part No.	Description	R-410A	CO2	Unit	Qty
ACR1040404	90DEG SHORT ELBOW 1/4ID X 1/4ID R410A	Yes	Yes	EA	1
ACR1040606	90DEG SHORT ELBOW 3/8ID X 3/8ID R410A	Yes	Yes	EA	1
ACR1040808	90DEG SHORT ELBOW 1/2ID X 1/2ID R410A	Yes	Yes	EA	1
ACR1041010	90DEG SHORT ELBOW 5/8ID X 5/8ID R410A	Yes	Yes	EA	1
ACR1041212	90DEG SHORT ELBOW 3/4ID X 3/4ID R410A	Yes		EA	1
ACR1041414	90DEG SHORT ELBOW 7/8ID X 7/8ID R410A	Yes		EA	1
ACR1041616	90DEG ELBOW 1 ID X 1 ID R410A S/R	Yes		EA	1
ACR1041818	90DEG SHORT ELBOW 1 1/8ID X 1 1/8ID			EA	1
ACR1042020	90DEG SHORT ELBOW 1 1/4ID X 1 1/4ID			EA	1
ACR1042222	90DEG SHORT ELBOW 1 3/8ID X 1 3/8ID			EA	1
ACR1042424	90DEG SHORT ELBOW 1 1/2ID X 1 1/2ID			EA	1
ACR1042626	90DEG SHORT ELBOW 1 5/8ID X 1 5/8ID			EA	1
ACR1043434	90DEG SHORT ELBOW 2 1/8ID X 2 1/8ID			EA	1
ACR1044848	90DEG SHORT ELBOW 3 ID X 3 ID			EA	1

COPPER ELBOWS 45 DEGREE ID X ID

- Suitable for R410A refrigerant and CO2 gas
- Material: Copper
- Reduced risk of premature failure due to quality of manufacture
- Burst tested with batch verification to ensure reliability

Part No.	Description	R-410A	CO2	Unit	Qty
ACR1050606	45DEG ELBOW 3/8ID X 3/8ID R410A	Yes	Yes	EA	1
ACR1050808	45DEG ELBOW 1/2ID X 1/2ID R410A	Yes	Yes	EA	1
ACR1051010	45DEG ELBOW 5/8ID X 5/8ID R410A	Yes	Yes	EA	1
ACR1051212	45DEG ELBOW 3/4ID X 3/4ID R410A	Yes		EA	1
ACR1051414	45DEG ELBOW 7/8ID X 7/8ID R410A	Yes		EA	1
ACR1051616	45DEG ELBOW 1 ID X 1 ID R410A	Yes		EA	1
ACR1051818	45DEG ELBOW 1 1/8ID X 1 1/8ID			EA	1
ACR1051818-R410A	45DEG ELBOW 1 1/8 ID R410A	Yes		EA	1
ACR1052020	45DEG ELBOW 1 1/4ID X 1 1/4ID			EA	1
ACR1052222	45DEG ELBOW 1 3/8ID X 1 3/8ID			EA	1
ACR1052222-R410A	45DEG ELBOW 1 3/8ID X 1 3/8ID R410A	Yes		EA	1
ACR1052424	45DEG ELBOW 1 1/2ID X 1 1/2ID			EA	1
ACR1052626	45DEG ELBOW 1 5/8ID X 1 5/8ID			EA	1
ACR1052626-R410A	45DEG ELBOW 1 5/8ID X 1 5/8ID R410A	Yes		EA	1
ACR1053232	45DEG ELBOW 2 ID X 2 ID			EA	1
ACR1053434	45DEG ELBOW 2 1/8ID X 2 1/8ID			EA	1
ACR1054242	45DEG ELBOW 2 5/8ID X 2 5/8ID			EA	1
ACR1055050	45DEG ELBOW 3 1/8ID X 3 1/8ID			EA	1

COPPER TEES STD

- Suitable for R410A refrigerant and CO2 gas
- Material: Copper
- Reduced risk of premature failure due to quality of manufacture
- Burst tested with batch verification to ensure reliability

Part No.	Description	R-410A	CO2	Unit	Qty
ACR106040404	TEE ID 1/4 X 1/4 X 1/4 R410A	Yes	Yes	EA	1
ACR106050505	TEE ID 5/16 X 5/16 X 5/16 R410A	Yes	Yes	EA	1
ACR106060606	TEE ID 3/8 X 3/8 X 3/8 R410A	Yes	Yes	EA	1
ACR106080808	TEE ID 1/2 X 1/2 X 1/2 R410A	Yes	Yes	EA	1
ACR106101010	TEE ID 5/8 X 5/8 X 5/8 R410A	Yes	Yes	EA	1
ACR106121212	TEE ID 3/4 X 3/4 X 3/4 R410A	Yes		EA	1
ACR106141414	TEE ID 7/8 X 7/8 X 7/8 R410A	Yes		EA	1
ACR106161616	TEE ID 1 X 1 X 1 R410A	Yes		EA	1
ACR106181818	TEE ID 1 1/8 X 1 1/8 X 1 1/8			EA	1
ACR106181818-R410A	TEE ID 1 1/8 X 1 1/8 X 1 1/8 R410A	Yes		EA	1
ACR106202020	TEE ID 1 1/4 X 1 1/4 X 1 1/4			EA	1
ACR106222222	TEE ID 1 3/8 X 1 3/8 X 1 3/8			EA	1
ACR106222222-R410A	TEE ID 1 3/8 X 1 3/8 X 1 3/8 R410A	Yes		EA	1
ACR106242424	TEE ID 1 1/2 X 1 1/2 X 1 1/2			EA	1
ACR106262626	TEE ID 1 5/8 X 1 5/8 X 1 5/8			EA	1
ACR106323232	TEE ID 2 X 2 X 2			EA	1
ACR106343434	TEE ID 2 1/8 X 2 1/8 X 2 1/8			EA	1
ACR106424242	TEE ID 2 5/8 X 2 5/8 X 2 5/8			EA	1
ACR106484848	TEE ID 3 X 3 X 3			EA	1
ACR106505050	TEE ID 3 1/8 X 3 1/8 X 3 1/8			EA	1

COPPER TEES REDUCING/INCREASING

- Suitable for R410A refrigerant and CO2 gas
- Material: Copper
- Reduced risk of premature failure due to quality of manufacture
- Burst tested with batch verification to ensure reliability

Part No.	Description	R-410A	CO2	Unit	Qty
ACR106050504	TEE ID 5/16 X 5/16 X 1/4 R410A	Yes	Yes	EA	1
ACR106060604	TEE ID 3/8 X 3/8 X 1/4 R410A	Yes	Yes	EA	1
ACR106080804	TEE ID 1/2 X 1/2 X 1/4 R410A	Yes	Yes	EA	1
ACR106080806	TEE ID 1/2 X 1/2 X 3/8 R410A	Yes	Yes	EA	1
ACR106101006	TEE ID 5/8 X 5/8 X 3/8 R410A	Yes	Yes	EA	1
ACR106101008	TEE ID 5/8 X 5/8 X 1/2 R410A	Yes	Yes	EA	1
ACR106121206	TEE ID 3/4 X 3/4 X 3/8 R410A	Yes		EA	1
ACR106121208	TEE ID 3/4 X 3/4 X 1/2 R410A	Yes		EA	1
ACR106121210	TEE ID 3/4 X 3/4 X 5/8 R410A	Yes		EA	1
ACR106161608	TEE ID 1 X 1 X 1/2	Yes		EA	1
ACR106161612	TEE ID 1 X 1 X 3/4	Yes		EA	1
ACR106181814	TEE ID 1 1/8 X 1 1/8 X 7/8			EA	1
ACR106222214	TEE ID 1 3/8 X 1 3/8 X 7/8			EA	1

COPPER Y PIECES STD

- Suitable for R410A refrigerant gas
- Material: Copper
- Reduced risk of premature failure due to quality of manufacture
- Burst tested with batch verification to ensure reliability

Part No.	Description	R-410A	CO2	Unit	Qty
ACR113080808	Y PIECE 1/2ID X 1/2ID X 1/2ID	Yes		EA	1
ACR113101010	Y PIECE 5/8ID X 5/8ID X 5/8ID	Yes		EA	1
ACR113121212	Y PIECE 3/4ID X 3/4ID X 3/4ID			EA	1
ACR113141414	Y PIECE 7/8ID X 7/8ID X 7/8ID			EA	1

COPPER Y PIECES REDUCING/INCREASING

- Suitable for R410A refrigerant gas
- Material: Copper
- Reduced risk of premature failure due to quality of manufacture
- Burst tested with batch verification to ensure reliability

Part No.	Description	R-410A	CO2	Unit	Qty
ACR113080606	Y PIECE 1/2ID X 3/8ID X 3/8ID	Yes		EA	1
ACR113100808	Y PIECE 5/8ID X 1/2ID X 1/2ID	Yes		EA	1
ACR113121010	Y PIECE 3/4ID X 5/8ID X 5/8ID			EA	1
ACR113141010	Y PIECE 7/8ID X 5/8ID X 5/8ID			EA	1
ACR113161212	Y PIECE 1ID X 3/4ID X 3/4ID			EA	1
ACR113181414	Y PIECE 1 1/8IDX7/8IDX7/8ID			EA	1
ACR113221414	Y PIECE 13/8ID X 7/8ID X 7/8ID			EA	1
ACR113261818	Y PIECE 15/8ID X 11/8ID X 11/8			EA	1

COPPER COUPLINGS ID X ID

- Suitable for R410A refrigerant and CO2 gas
- Material: Copper
- Reduced risk of premature failure due to quality of manufacture
- Burst tested with batch verification to ensure reliability

Part No.	Description	R-410A	CO2	Unit	Qty
ACR1010404	COUPLING 1/4ID X 1/4ID R410A	Yes	Yes	EA	1
ACR1010505	COUPLING 5/16ID X 5/16ID R410A	Yes	Yes	EA	1
ACR1010606	COUPLING 3/8ID X 3/8ID R410A	Yes	Yes	EA	1
ACR1010808	COUPLING 1/2ID X 1/2ID R410A	Yes	Yes	EA	1
ACR1011010	COUPLING 5/8ID X 5/8ID R410A	Yes	Yes	EA	1
ACR1011212	COUPLING 3/4ID X 3/4ID R410A	Yes	Yes	EA	1
ACR1011414	COUPLING 7/8ID X 7/8ID R410A	Yes		EA	1
ACR1011616	COUPLING 1 ID X 1 ID R410A	Yes		EA	1
ACR1011818	COUPLING 1 1/8ID X 1 1/8ID			EA	1
ACR1011818-R410A	COUPLING 1 1/8ID X 1 1/8ID R410A	Yes		EA	1
ACR1012020	COUPLING 1 1/4ID X 1 1/4ID			EA	1
ACR1012222	COUPLING 1 3/8ID X 1 3/8ID			EA	1
ACR1012222-R410A	COUPLNG 1 3/8ID X 1 3/8ID R410A	Yes		EA	1
ACR1012424	COUPLING 1 1/2ID X 1 1/2ID			EA	1
ACR1012626	COUPLING 1 5/8ID X 1 5/8ID			EA	1
ACR1012626-R410A	COUPLING 1 5/8ID X 1 5/8ID R410A	Yes		EA	1
ACR1013232	COUPLING 2 ID X 2 ID			EA	1
ACR1013434	COUPLING 2 1/8ID X 2 1/8ID			EA	1
ACR1014242	COUPLING 2 5/8ID X 2 5/8ID			EA	1
ACR1015050	COUPLING 3 1/8ID X 3 1/8ID			EA	1

COPPER REDUCING COUPLINGS ID X ID

- Suitable for R410A refrigerant and CO2 gas
- Material: Copper
- Reduced risk of premature failure due to quality of manufacture
- Burst tested with batch verification to ensure reliability

Part No.	Description	R-410A	CO2	Unit	Qty
ACR1010604	COUPLING 3/8ID X 1/4ID R410A	Yes	Yes	EA	1
ACR1010804	COUPLING 1/2ID X 1/4ID R410A	Yes	Yes	EA	1
ACR1010806	COUPLING 1/2ID X 3/8ID R410A	Yes	Yes	EA	1
ACR1011006	COUPLING 5/8ID X 3/8ID R410A	Yes	Yes	EA	1
ACR1011008	COUPLING 5/8ID X 1/2ID R410A	Yes	Yes	EA	1
ACR1011206	COUPLING 3/4ID X 3/8ID R410A	Yes	Yes	EA	1
ACR1011208	COUPLING 3/4ID X 1/2ID R410A	Yes	Yes	EA	1
ACR1011210	COUPLING 3/4ID X 5/8ID R410A	Yes	Yes	EA	1
ACR1011408	COUPLING 7/8ID X 1/2ID R410A	Yes		EA	1
ACR1011410	COUPLING 7/8ID X 5/8ID R410A	Yes		EA	1
ACR1011412	COUPLING 7/8ID X 3/4ID R410A	Yes		EA	1
ACR1011608	COUPLING 1 ID X 1/2 ID R410A	Yes		EA	1
ACR1011612	COUPLING 1 ID X 3/4 ID R410A	Yes		EA	1
ACR1011614	COUPLING 1 ID X 7/8 ID R410A	Yes		EA	1
ACR1011808	COUPLING 1 1/8ID X 1/2ID	Yes		EA	1
ACR1011810	COUPLING 1 1/8ID X 5/8ID			EA	1
ACR1011810-R410A	COUPLING 1 1/8ID X 5/8ID R410A	Yes		EA	1
ACR1011812	COUPLING 1 1/8ID X 3/4ID			EA	1
ACR1011812-R410A	COUPLING 1 1/8ID X 3/4ID R410A	Yes		EA	1
ACR1011814	COUPLING 1 1/8ID X 7/8ID			EA	1
ACR1011814-R410A	COUPLING 1 1/8ID X 7/8ID R410A	Yes		EA	1
ACR1011816	COUPLING 1 1/8ID X 1 ID			EA	1
ACR1012016	COUPLING 1 1/4ID X 1 ID			EA	1
ACR1012210	COUPLING 1 3/8ID X 5/8ID			EA	1
ACR1012212	COUPLING 1 3/8ID X 3/4ID			EA	1
ACR1012214	COUPLING 1 3/8ID X 7/8ID			EA	1
ACR1012218	COUPLING 1 3/8ID X 1 1/8ID			EA	1
ACR1012420	COUPLING 1 1/2ID X 1 1/4ID			EA	1
ACR1012614	COUPLING 1 5/8ID X 7/8ID			EA	1
ACR1012618	COUPLING 1 5/8ID X 1 1/8ID			EA	1
ACR1012622	COUPLING 1 5/8ID X 1 3/8ID			EA	1
ACR1012622-R410A	COUPLING 1 5/8ID X 1 3/8ID R410A	Yes		EA	1
ACR1013418	COUPLING 2 1/8ID X 1 1/8ID			EA	1
ACR1013422	COUPLING 2 1/8ID X 1 3/8ID			EA	1
ACR1013426	COUPLING 2 1/8ID X 1 5/8ID			EA	1
ACR1014222	COUPLING 2 5/8ID X 1 3/8ID			EA	1
ACR1014226	COUPLING 2 5/8ID X 1 5/8ID			EA	1
ACR1014234	COUPLING 2 5/8ID X 2 1/8ID			EA	1
ACR1014842	COUPLING 3 ID X 2 5/8ID			EA	1
ACR1015042	COUPLING 3 1/8ID X 2 5/8ID			EA	1

COPPER REDUCING BUSHES OD X ID

- Suitable for R410A refrigerant and CO2 gas
- Material: Copper
- Reduced risk of premature failure due to quality of manufacture
- Burst tested with batch verification to ensure reliability

Part No.	Description	R-410A	CO2	Unit	Qty
ACR1000604	BUSH 3/8OD X 1/4ID R410A	Yes	Yes	EA	1
ACR1000804	BUSH 1/2OD X 1/4ID R410A	Yes	Yes	EA	1
ACR1000806	BUSH 1/2OD X 3/8ID R410A	Yes	Yes	EA	1
ACR1001006	BUSH 5/8OD X 3/8ID R410A	Yes	Yes	EA	1
ACR1001008	BUSH 5/8OD X 1/2ID R410A	Yes	Yes	EA	1
ACR1001208	BUSH 3/4OD X 1/2ID R410A	Yes		EA	1
ACR1001210	BUSH 3/4OD X 5/8ID R410A	Yes		EA	1
ACR1001408	BUSH 7/8OD X 1/2ID R410A	Yes		EA	1
ACR1001410	BUSH 7/8OD X 5/8ID R410A	Yes		EA	1
ACR1001412	BUSH 7/8OD X 3/4ID R410A	Yes		EA	1
ACR1001612	BUSH 1 OD X 3/4ID R410A	Yes		EA	1
ACR1001808	BUSH 1 1/8OD X 1/2ID			EA	1
ACR1001810	BUSH 1 1/8OD X 5/8ID			EA	1
ACR1001810-R410A	BUSH 1 1/8OD X 5/8ID R410A	Yes		EA	1
ACR1001812	BUSH 1 1/8OD X 3/4ID			EA	1
ACR1001814	BUSH 1 1/8OD X 7/8ID			EA	1
ACR1001814-R410A	BUSH 1 1/8OD X 7/8ID R410A	Yes		EA	1
ACR1002016	BUSH 1 1/4OD X 1 ID			EA	1
ACR1002210	BUSH 1 3/8OD X 5/8ID			EA	1
ACR1002214	BUSH 1 3/8OD X 7/8ID			EA	1
ACR1002214-R410A	BUSH 1 3/8OD X 7/8ID R410A	Yes		EA	1
ACR1002218	BUSH 1 3/8OD X 1 1/8ID			EA	1
ACR1002218-R410A	BUSH 1 3/8OD X 1 1/8ID R410A	Yes		EA	1
ACR1002614	BUSH 1 5/8OD X 7/8ID			EA	1
ACR1002618	BUSH 1 5/8OD X 1 1/8ID			EA	1
ACR1002622	BUSH 1 5/8OD X 1 3/8ID			EA	1
ACR1002622-R410A	BUSH 1 5/8OD X 1 3/8ID R410A	Yes		EA	1
ACR1003224	BUSH 2 OD X 1 1/2 ID			EA	1
ACR1003418	BUSH 2 1/8OD X 1 1/8ID			EA	1
ACR1003422	BUSH 2 1/8OD X 1 3/8ID			EA	1
ACR1003426	BUSH 2 1/8OD X 1 5/8ID			EA	1
ACR1004226	BUSH 2 5/8OD X 1 5/8ID			EA	1
ACR1004234	BUSH 2 5/8OD X 2 1/8ID			EA	1
ACR1004240	BUSH 2 5/8 OD X 2 1/2 ID			EA	1
ACR1004834	BUSH 3 OD X 2 1/8ID			EA	1
ACR1004842	BUSH 3 OD X 2 5/8ID			EA	1
ACR1005034	BUSH 3 1/8 OD X 2 1/8 ID			EA	1
ACR1005042	BUSH 3 1/8OD X 2 5/8ID			EA	1
ACR1005048	BUSH 3 1/8OD X 3 ID			EA	1

COPPER WASHERS FL

- Connection: SAE
- Material: Copper
- Reduced risk of premature failure due to quality of manufacture
- Suitable for R410A refrigerant gas

Part No.	Description	R-410A	CO2	Unit	Qty
ACR10904	FLARE WASHER 1/4FL	Yes		EA	1
ACR10906	FLARE WASHER 3/8FL	Yes		EA	1
ACR10908	FLARE WASHER 1/2FL	Yes		EA	1
ACR10910	FLARE WASHER 5/8FL	Yes		EA	1
ACR10912	FLARE WASHER 3/4FL	Yes		EA	1

COPPER WASHERS MFL

- Suitable for R410A refrigerant gas
- Material: Copper
- Standard: SAE
- Reduced risk of premature failure due to quality of manufacture

Part No.	Description	R-410A	CO2	Unit	Qty
ACR11106	FLARE WASHER FLARE SAFE 3/8MFL	Yes		EA	1
ACR11108	FLARE WASHER FLARE SAFE 1/2MFL	Yes		EA	1
ACR11110	FLARE WASHER FLARE SAFE 5/8MFL	Yes		EA	1
ACR11112	FLARE WASHER FLARE SAFE 3/4MFL	Yes		EA	1

COPPER BONNETS

- Connection: SAE
- Material: Copper
- Reduced risk of premature failure due to quality of manufacture
- Suitable for R410A refrigerant gas

Part No.	Description	R-410A	CO2	Unit	Qty
ACR10804	BONNET 1/4FL R410A	Yes		EA	1
ACR10806	BONNET 3/8FL R410A	Yes		EA	1
ACR10808	BONNET 1/2FL R410A	Yes		EA	1
ACR10810	BONNET 5/8FL R410A	Yes		EA	1
ACR10812	BONNET 3/4FL R410A	Yes		EA	1

COPPER STOP ENDS

- Ensured longevity due to removing stress and fatigue focus points
- Material: Copper
- Reduced risk of premature failure due to quality of manufacture
- Suitable for R410A refrigerant gas and CO2

Part No.	Description	R-410A	CO2	Unit	Qty
ACR11006	END CAP 3/8 ID R410A	Yes	Yes	EA	1
ACR11008	END CAP 1/2 ID R410A	Yes	Yes	EA	1
ACR11010	END CAP 5/8 ID R410A	Yes	Yes	EA	1
ACR11012	END CAP 3/4 ID R410A	Yes	Yes	EA	1
ACR11014	END CAP 7/8 ID R410A	Yes	Yes	PAK	5
ACR11016	END CAP 1 ID R410A	Yes	Yes	EA	1
ACR11018	END CAP 1 1/8 ID R410A	Yes	Yes	EA	1
ACR11020	END CAP 1 1/4 ID R410A	Yes	Yes	EA	1
ACR11022	END CAP 1 3/8 ID R410A	Yes	Yes	EA	1
ACR11024	END CAP 1 1/2 ID R410A	Yes		EA	1
ACR11026	END CAP 1 5/8 ID R410A	Yes		EA	1
ACR11032	END CAP 2 ID			EA	1
ACR11034	END CAP 2 1/8 ID			EA	1
ACR11042	END CAP 2 5/8 ID			EA	1
ACR11048	END CAP 3 ID			EA	1
ACR11050	END CAP 3 1/8 ID			EA	1
ACR11064	END CAP 4 ID			EA	1

COPPER

COPPER P-TRAPS

- Suitable for R410A refrigerant gas
- Material: Copper
- Reduced risk of premature failure due to quality of manufacture
- Burst tested with batch verification to ensure reliability

Part No.	Description	R-410A	CO2	Unit	Qty
ACR10710	P TRAP 5/8 ID R410A	Yes		EA	1
ACR10712	P TRAP 3/4 ID R410A	Yes		EA	1
ACR10714	P TRAP 7/8 ID R410A	Yes		EA	1
ACR10718	P TRAP 1 1/8 ID			EA	1
ACR10722	P TRAP 1 3/8 ID			EA	1
ACR10726	P TRAP 1 5/8 ID			EA	1
ACR10734	P TRAP 2 1/8 ID			EA	1

BRASS

FORGED SHORT BARREL FLARE-TUBE NUTS

- Forge short barrel
- Material: Brass
- Standard: SAE
- Drop-forged from high purity brass to prevent cracking

Part No.	Description	Unit	Qty
ACR2010404	FORGE S/ BARREL FLARE NUT 1/4FL	EA	1
ACR2010504	FORGE S/ BARREL FLARE NUT 5/16FL X 1/4	EA	1
ACR2010505	FORGE S/ BARREL FLARE NUT 5/16FL	EA	1
ACR2020604SB	FORGE FROST FREE FLARE NUT 3/8 FL X 1/4	EA	1
ACR2010606	FORGE S/ BARREL FLARE NUT 3/8FL	EA	1
ACR2010808	FORGE S/ BARREL FLARE NUT 1/2FL	EA	1
ACR2011010	FORGE S/ BARREL FLARE NUT 5/8FL	EA	1
ACR2011212	FORGE S/ BARREL FLARE NUT3/4FL	EA	1

BRASS FLARE NUTS FROST PROOF

- Forged long barrel ensures nuts won't loosen at low temperature
- Material: Brass
- Standard: SAE
- Drop-forged from high purity brass to prevent cracking

Part No.	Description	Unit	Qty
ACR2020404	FLARE NUT FROST PROOF 1/4FL	EA	1
ACR2020604	FLARE NUT FROST PROOF 3/8FL X 1/4	EA	1
ACR2020606	FLARE NUT FROST PROOF 3/8FL	EA	1
ACR2020806	FLARE NUT FROST PROOF 1/2FL X 3/8	EA	1
ACR2020808	FLARE NUT FROST PROOF 1/2FL	EA	1
ACR2021010	FLARE NUT FROST PROOF 5/8FL	EA	1
ACR2021212	FLARE NUT FROST PROOF 3/4FL	EA	1

BRASS ELBOWS MALE FLARED

- Forged elbow
- Material: Brass
- Standard: SAE

Part No.	Description	Unit	Qty
ACR2610404	FORGED ELBOW 1/4 MFL X 1/4 MFL	EA	1
ACR2610606	FORGED ELBOW 3/8 MFL X 3/8 MFL	EA	1
ACR2610808	FORGED ELBOW 1/2 MFL X 1/2 MFL	EA	1

BRASS ELBOWS FLARED X MALE BSP

- Forged elbow
- Material: Brass
- Standard: SAE to British Standard Pipe threading

Part No.	Description	Unit	Qty
ACR2220402	FORGED ELBOW 1/4 MFL X 1/8 MBSP	EA	1
ACR2230402	FORGED ELBOW 1/4 MFL X 1/8 MNPT	EA	1
ACR2220404	FORGED ELBOW 1/4 MFL X 1/4 MBSP	EA	1
ACR2230404	FORGED ELBOW 1/4MFL X 1/4 MNPT	EA	1
ACR2220406	FORGED ELBOW 1/4 MFL X 3/8 MBSP	EA	1
ACR2220602	FORGED ELBOW 3/8 MFL X 1/8 MBSP	EA	1
ACR2220604	FORGED ELBOW 3/8 MFL X 1/4 MBSP	EA	1
ACR2220606	FORGED ELBOW 3/8 MFL X 3/8 MBSP	EA	1
ACR2220608	FORGED ELBOW 3/8 MFL X 1/2 MBSP	EA	1
ACR2220806	FORGED ELBOW 1/2 MFL X 3/8 MBSP	EA	1
ACR2220808	FORGED ELBOW 1/2 MFL X 1/2 MBSP	EA	1
ACR2221008	FORGED ELBOW 5/8 MFL X 1/2 MBSP	EA	1
ACR2221212	FORGED ELBOW 3/4 MFL X 3/4 MBSP	EA	1

BRASS TEE'S

- Forged tee male flare
- Material: Brass
- Standard: SAE

Part No.	Description	Unit	Qty
ACR230040404	FORGED TEE 1/4MFL X 1/4MFL X 1/4MFL	EA	1
ACR230060606	FORGED TEE 3/8MFL X 3/8MFL X 3/8MFL	EA	1
ACR214040404D	1/4SCHR FL X 1/4SCHR FL X1/4 FSAE SWIVEL	EA	1
ACR230080808	FORGED TEE 1/2MFL X 1/2MFL X 1/2MFL	EA	1
ACR230101010	FORGED TEE 5/8MFL X 5/8MFL X 5/8MFL	EA	1
ACR230121212	FORGED TEE 3/4MFL X 3/4MFL X 3/4MFL	EA	1
ACR232040404	FORGED TEE 1/4MFL X 1/4MFL X 1/4FFL	EA	1
ACR233040402	FORGED TEE 1/4MFL X 1/4MFL X 1/8MBSP	EA	1
ACR233040404	FORGED TEE 1/4MFL X 1/4MFL X 1/4MBSP	EA	1
ACR235040404	FORGED TEE 1/4MFL X 1/4MNPT X 1/4MFL	EA	1

BRASS UNION FSAE X FSAE

- Connection: Flared SAE to flared SAE
- Material: Brass
- Standard: SAE

Part No.	Description	Unit	Qty
ACR2260404	UNION 1/4 FFL X 1/4 FFL	EA	1
ACR2260606	UNION 3/8 FFL X 3/8 FFL	EA	1
ACR2260808	UNION 1/2 FFL X 1/2 FFL	EA	1

BRASS UNIONS FBSP X FBSP

- Connection: Flared BSP to Flared BSP
- Material: Brass
- Standard: British Standard Pipe threading

Part No.	Description	Unit	Qty
ACR2280202	UNION 1/8 FBSP X 1/8 FBSP	EA	1
ACR2280404	UNION 1/4 FBSP X 1/4 FBSP	EA	1
ACR2280606	UNION 3/8 FBSP X 3/8 FBSP	EA	1
ACR2280808	UNION 1/2 FBSP X 1/2 FBSP	EA	1
ACR2281212	UNION 3/4 FBSP X 3/4 FBSP	EA	1

BRASS UNIONS MBSP X FBSP

- Connection: BSP male to BSP female
- Material: Brass
- Standard: British Standard Pipe threading

Part No.	Description	Unit	Qty
ACR2160402	UNION 1/4 MBSP X 1/8 FBSP	EA	1
ACR2160604	UNION 3/8 MBSP X 1/4 FBSP	EA	1
ACR2160804	UNION 1/2 MBSP X 1/4 FBSP	EA	1
ACR2160806	UNION 1/2 MBSP X 3/8 FBSP	EA	1
ACR2161208	UNION 3/4 MBSP X 1/2 FBSP	EA	1
ACR2161612	UNION 1 MBSP X 3/4 FBSP	EA	1

BRASS UNIONS SWIVEL FSAE

- Flare swivel
- Material: Brass
- Standard: SAE

Part No.	Description	Unit	Qty
ACR29504	FLARE SWIVEL CONNECTOR 1/4 FFL X 1/4 FFL	EA	1
ACR29506	FLARE SWIVEL CONNECTOR 3/8 FFL X 3/8 FFL	EA	1
ACR29508	FLARE SWIVEL CONNECTOR 1/2 FFL X 1/2 FFL	EA	1
ACR29510	FLARE SWIVEL CONNECTOR 5/8 FFL X 5/8 FFL	EA	1

BRASS UNION MSAE X FSAE

- Connection: Flared male SAE to flared female SAE
- Material: Brass
- Standard: SAE

Part No.	Description	Unit	Qty
ACR2450404	UNION 1/4 MFL X 1/4 FFL	EA	1
ACR2450405	UNION 1/4 MFL X 5/16 FFL	EA	1
ACR2450406	UNION 1/4 MFL X 3/8 FFL	EA	1
ACR2450408	UNION 1/4 MFL X 1/2 FFL	EA	1
ACR2450504	UNION 5/16 MFL X 1/4 FFL	EA	1
ACR2450604	UNION 3/8 MFL X 1/4 FFL	EA	1
ACR2450606	UNION 3/8 MFL X 3/8 FFL	EA	1
ACR2450608	UNION 3/8 MFL X 1/2 FFL	EA	1
ACR2450804	UNION 1/2 MFL X 1/4 FFL	EA	1
ACR2450806	UNION 1/2 MFL X 3/8 FFL	EA	1
ACR2450810	UNION 1/2 MFL X 5/8 FFL	EA	1
ACR2451008	UNION 5/8 MFL X 1/2 FFL	EA	1
ACR2451210	UNION 3/4 MFL X 5/8 FFL	EA	1

BRASS UNION MFL X FBSP

- Connection: Flared male SAE to NPT female
- Material: Brass
- Standard: SAE to USA National Pipe threading

Part No.	Description	Unit	Qty
ACR2460402	UNION 1/4 MFL X 1/8 FBSP	EA	1
ACR2460404	UNION 1/4 MFL X 1/4 FBSP	EA	1
ACR2460406	UNION 1/4 MFL X 3/8 FBSP	EA	1
ACR2460604	UNION 3/8 MFL X 1/4 FBSP	EA	1
ACR2460606	UNION 3/8 MFL X 3/8 FBSP	EA	1
ACR2460608	UNION 3/8 MFL X 1/2 FBSP	EA	1
ACR2460806	UNION 1/2 MFL X 3/8 FBSP	EA	1
ACR2460808	UNION 1/2 MFL X 1/2 FBSP	EA	1
ACR2461008	UNION 5/8 MFL X 1/2 FBSP	EA	1

BRASS UNIONS MSAE X FNPT

- Connection: Flared male SAE to NPT female
- Material: Brass
- Standard: SAE to USA National Pipe threading

Part No.	Description	Unit	Qty
ACR2470402	UNION 1/4 MFL X 1/8 FNPT	EA	1
ACR2470404	UNION 1/4 MFL X 1/4 FNPT	EA	1

BRASS UNIONS MBSP X SOLDER

- Sweat union
- Material: Brass
- Standard: British Standard Pipe threading

Part No.	Description	Unit	Qty
ACR2190404	UNION 1/4 MBSP X 1/4 ID SOL	EA	1
ACR2190604	UNION 3/8 MBSP X 1/4 ID SOL	EA	1
ACR2190606	UNION 3/8 MBSP X 3/8 ID SOL	EA	1
ACR2190608	UNION 3/8 MBSP X 1/2 ID SOL	EA	1
ACR2190808	UNION 1/2 MBSP X 1/2 ID SOL	EA	1
ACR2190810	UNION 1/2 MBSP X 5/8 ID SOL	EA	1
ACR2191212	UNION 3/4 MBSP X 3/4 ID SOL	EA	1
ACR2191616	UNION 1 MBSP X 1 ID SOL	EA	1

BRASS UNIONS MSAE X SOLDER

- Sweat union
- Material: Brass
- Standard: SAE

Part No.	Description	Unit	Qty
ACR2180404	SWEAT UNION 1/4 MFL X 1/4 ID SOL	EA	1
ACR2180406	SWEAT UNION 1/4 MFL X 3/8 ID SOL	EA	1
ACR2180606	SWEAT UNION 3/8 MFL X 3/8 ID SOL	EA	1
ACR2180608	SWEAT UNION 3/8 MFL X 1/2 ID SOL	EA	1
ACR2180808	SWEAT UNION 1/2 MFL X 1/2 ID SOL	EA	1
ACR2181008	SWEAT UNION 5/8 MFL X 1/2 ID SOL	EA	1
ACR2181010	SWEAT UNION 5/8 MFL X 5/8 ID SOL	EA	1
ACR2181212	SWEAT UNION 3/4 MFL X 3/4 ID SOL	EA	1

BRASS UNIONS MBSP X MBSP

- Connection: BSP male to BSP male
- Material: Brass
- Standard: British Standard Pipe threading

Part No.	Description	Unit	Qty
ACR2510202	UNION 1/8 MBSP X 1/8 MBSP	EA	1
ACR2510402	UNION 1/4 MBSP X 1/8 MBSP	EA	1
ACR2510404	UNION 1/4 MBSP X 1/4 MBSP	EA	1
ACR2510604	UNION 3/8 MBSP X 1/4 MBSP	EA	1
ACR2510606	UNION 3/8 MBSP X 3/8 MBSP	EA	1
ACR2510806	UNION 1/2 MBSP X 3/8 MBSP	EA	1
ACR2510808	UNION 1/2 MBSP X 1/2 MBSP	EA	1
ACR2511212	UNION 3/4 MBSP X 3/4 MBSP	EA	1

BRASS UNIONS MSAE X MSAE

- Connection: Flared male SAE to flared male SAE
- Material: Brass
- Standard: SAE

Part No.	Description	Unit	Qty
ACR2400404	UNION 1/4 MFL X 1/4 MFL	EA	1
ACR2400504	UNION 5/16 MFL X 1/4 MFL	EA	1
ACR2400505	UNION 5/16 MFL X 5/16 MFL	EA	1
ACR2400604	UNION 3/8 MFL X 1/4 MFL	EA	1
ACR2400606	UNION 3/8 MFL X 3/8 MFL	EA	1
ACR2400804	UNION 1/2 MFL X 1/4 MFL	EA	1
ACR2400806	UNION 1/2 MFL X 3/8 MFL	EA	1
ACR2400808	UNION 1/2 MFL X 1/2 MFL	EA	1
ACR2401008	UNION 5/8 MFL X 1/2 MFL	EA	1
ACR2401010	UNION 5/8 MFL X 5/8 MFL	EA	1
ACR2401212	UNION 3/4 MFL X 3/4 MFL	EA	1

BRASS UNIONS MFL X MBSP

- Connection: Flared male to BSP male
- Material: Brass
- Standard: British Standard Pipe threading

Part No.	Description	Unit	Qty
ACR2210402	UNION 1/4 MFL X 1/8 MBSP	EA	1
ACR2210402L	UNION 1/4 MFL X 1/8 MBSP LONG	EA	1
ACR2210404	UNION 1/4 MFL X 1/4 MBSP	EA	1
ACR2210406	UNION 1/4 MFL X 3/8 MBSP	EA	1
ACR2210408	UNION 1/4 MFL X 1/2 MBSP	EA	1
ACR2210602	UNION 3/8 MFL X 1/8 MBSP	EA	1
ACR2210604	UNION 3/8 MFL X 1/4 MBSP	EA	1
ACR2210606	UNION 3/8 MFL X 3/8 MBSP	EA	1
ACR2210608	UNION 3/8 MFL X 1/2 MBSP	EA	1
ACR2210804	UNION 1/2 MFL X 1/4 MBSP	EA	1
ACR2210806	UNION 1/2 MFL X 3/8 MBSP	EA	1
ACR2210808	UNION 1/2 MFL X 1/2 MBSP	EA	1
ACR2210812	UNION 1/2 MFL X 3/4 MBSP	EA	1
ACR2211008	UNION 5/8 MFL X 1/2 MBSP	EA	1
ACR2211012	UNION 5/8 MFL X 3/4 MBSP	EA	1
ACR2211212	UNION 3/4 MFL X 3/4 MBSP	EA	1

BRASS UNIONS MSAE X MNPT

- Connection: Flared to BSP male
- Material: Brass
- Standard: British Standard Pipe threading

Part No.	Description	Unit	Qty
ACR2060402	SCHR UNION THREADED 1/4FL X 1/8MBSP	EA	1
ACR2070402	SCHR UNION THREADED 1/4FL X 1/8MNPT	EA	1
ACR2070404	SCHR UNION THREADED 1/4 FL X 1/4MNPT	EA	1
ACR2440402	UNION 1/4 MFL X 1/8 MNPT	EA	1
ACR2440404	UNION 1/4 MFL X 1/4 MNPT	EA	1
ACR2440406	UNION 1/4 MFL X 3/8 MNPT	EA	1
ACR2440606	UNION 3/8 MFL X 3/8 MNPT	EA	1

BRASS CYLINDER ADAPTORS 3/4IN BSP

- Cylinder adaptor
- Material: Brass
- Standard: SAE and British Standard Pipe threading
- Cylinder adapter with washer

Part No.	Description	Unit	Qty
ACR2030412	ADT CYLINDER 1/4MFL X 3/4FBSP	EA	1
ACR2030512	ADT CYLINDER 5/16MFL X 3/4FBSP R410A	EA	1
ACR2030532	ADT CYLINDER 5/16MSAE X 3/4FBSP R32	EA	1
ACR2030612	ADT CYLINDER 3/8MFL X 3/4FBSP	EA	1

BRASS PIPE PLUGS

- Connection: Male BSP
- Material: Brass
- Standard: British Standard Pipe threading

Part No.	Description	Unit	Qty
ACR28002	PIPE PLUG 1/8 MBSP	EA	1
ACR28004	PIPE PLUG 1/4 MBSP	EA	1
ACR28006	PIPE PLUG 3/8 MBSP	EA	1
ACR28008	PIPE PLUG 1/2 MBSP	EA	1
ACR28012	PIPE PLUG 3/4 MBSP	EA	1

BRASS SEAL CAP FSAE

- Connection: Flared female SAE
- Material: Brass
- Standard: SAE

Part No.	Description	Unit	Qty
ACR27504	FEMALE FLARE CAP 1/4 FFL	EA	1
ACR27506	FEMALE FLARE CAP 3/8 FFL	EA	1
ACR27508	FEMALE FLARE CAP 1/2 FFL	EA	1
ACR27510	FEMALE FLARE CAP 5/8 FFL	EA	1
ACR27512	FEMALE FLARE CAP 3/4 FFL	EA	1

BRASS SEAL PLUG MSAE

- Connection: Flared male SAE
- Material: Brass
- Standard: SAE

Part No.	Description	Unit	Qty
ACR27004	MALE FLARE CAP 1/4 MFL	EA	1
ACR27005	MALE FLARE CAP 5/16 MFL	EA	1
ACR27006	MALE FLARE CAP 3/8 MFL	EA	1
ACR27008	MALE FLARE CAP 1/2 MFL	EA	1
ACR27010	MALE FLARE CAP 5/8 MFL	EA	1
ACR27012	MALE FLARE CAP 3/4 MFL	EA	1

SCHRADER SPARES

- Schrader valve
- Material: Brass
- Suitable for R410A refrigerant gas

Part No.	Description	Unit	Qty
ACR2041	SCHRADER VALVE CORE R410A	EA	1
ACR2052	SCHRADER CAP AND O RING R410A 5/16	EA	1
ACR2053	SCHRADER CAP AND TOOL 1/4	EA	1

SCHRADER UNIONS FLARE NO TAIL

SCHR UNION 1/4SCHR X 1/4ID

Unit: EA Qty: 1

Part No. ACR2090404

- Connection: Schrader union
- Material: Brass
- Includes the tool cap and core

SCHRADER WITH COPPER TAILS

- Connection: Flared to tail
- Material: Brass
- Copper Solder

Part No.	Description	Unit	Qty
ACR2080404	SCHR UNION 1/4FL X 1/4 TAIL	EA	1
ACR2080504	SCHR UNION 5/16FL X 1/4 TAIL	EA	1
ACR2080403	SCHR UNION 1/4FL X 3/16 TAIL	EA	1

BRASS FLARESAFE ADAPTORS

- Suitable for R410A refrigerant gas
- Material: Brass
- Designed with a sacrificial washer between the join and the flare
- Solders onto the copper tube for connection security

Part No.	Description	R-410A	CO2	Unit	Qty
ACR2100404	FLARE SAFE SOLDER ADAPTOR 1/4FL X 1/4SOL	Yes		EA	1
ACR2100606	FLARE SAFE SOLDER ADAPTOR 3/8FL X 3/8SOL	Yes		EA	1
ACR2100808	FLARE SAFE SOLDER ADAPTOR 1/2FL X 1/2SOL	Yes		EA	1
ACR2101010	FLARE SAFE SOLDER ADAPTOR 5/8FL X 5/8SOL	Yes		EA	1
ACR2101212	FLARE SAFE SOLDER ADAPTOR 3/4FL X 3/4SOL	Yes		EA	1

SCHRADER TEES

SWIVEL TEE 1/4SCHR X 1/4SCHR X 1/4FSAE

Unit: EA Qty: 1

Part No. ACR213040404

- Swivel tee schrader
- Material: Brass
- Includes a depressor

SCHRADER UNIONS MFL X MBSP

- Connection: Flared to BSP male
- Material: Brass
- Standard: British Standard Pipe threading

Part No.	Description	Unit	Qty
ACR2060404	SCHR UNION THREADED 1/4FL X 1/4MBSP	EA	1
ACR2060504	SCHR UNION THREADED 5/16FL X 1/4MBSP	EA	1

BRASS ELBOWS FLARED MALE X FEMALE

- Forged elbow
- Material: Brass
- Standard: SAE

Part No.	Description	Unit	Qty
ACR2600404	FORGED ELBOW 1/4 MFL X 1/4 FFL	EA	1
ACR2600606	FORGED ELBOW 3/8 MFL X 3/8 FFL	EA	1
ACR2600808	FORGED ELBOW 1/2 MFL X 1/2 FFL	EA	1

SCHRADER ELBOWS FLARED

- Size: 1/4 Schrader x 1/8inch MNPT
- Includes cap and core

Part No.	Description	Unit	Qty
ACR2120402	ELBOW 1/4 SCHR FL X 1/8MNPT	EA	1
ACR2110404	ACCESS ELBOW 1/4SCHR X 1/4MBSP	EA	1

REFRIGERATION CONTROLS & ELECTRICALS

Timers	72
Pressure Controls	73
Digital Controllers	75
Flow Switches and Valves	77
Thermostats	79
Room Thermostats and Covers	81
Contactors	83
Overload	83

Analogue Time Switches

TIME SWITCH ANALOGUE DIN MNT 24HR

Part No. CTS-160

- Easy to program single module analogue time switch with 24-hour ON/OFF scheduling capability
- Large screw terminals (max 4mm) and lead sealable housing for tamper protection
- Suitable for DIN mounting, ideal for advertising lighting & pump control
- Temperature range -20 to +55 degrees Celsius
- 16amp resistive load AC1, 4amp AC3

TIME SWITCH ANALOGUE DIN MNT 24 HR BATT

Part No. CTS-180

- Easy to program single module analogue time switch with 24-hour ON/OFF scheduling capability and battery back-up
- Large screw terminals (max 4mm) and lead sealable housing for tamper protection
- Suitable for DIN mounting, ideal for advertising lighting or pump control
- Temperature range -20 to +55 degrees Celsius
- 16amp resistive load AC1, 4amp AC3

TIME SWITCH ANALOGUE 24 HR

Part No. CTS-64B

- Analogue time switch for 24-hour ON/OFF scheduling, easy programming feature with captive pins
- Mounting options include surface mount, recessed mount and DIN mount
- Large screw terminals perfect for stranded conductor
- Ideal for HVAC, lighting or pump applications
- 240V, 16amp AC, 8amp AC3, potential free change over contact

TIME SWITCH ANALOGUE 24 HR BATT

Part No. CTS-64BQ

- Analogue time switch for 24-hour ON/OFF scheduling, easy programming feature with captive pins and 150-hour power reserve
- Mounting options include surface mount, recessed mount and DIN mount
- Large screw terminals perfect for stranded conductor
- Ideal for HVAC, lighting or pump applications
- 240V, 16amp AC, 8amp AC3, potential free change over contact

TIME SWITCH ANALOGUE 24 HR PANEL MNT

Part No. CTS-UNI45

- Efficient, synchronous analogue time switch with daily 24-hour programming capability-sealable and fully insulated
- Features large screw terminals with wire protection clamps. Made in Germany
- Mounting options include surface mount and recessed mount
- Ideal for HVAC, Lighting or Pump Applications
- 240V, 16amp AC1, 8amp AC3, potential free change over contact

Digital Time Switches

TIME SWITCH DIGITAL 7 DAY SINGLE MODULE

Part No. CTS-608

- Single module digital time switch with large screw terminals to suit stranded conductor
- 7-day and daylight saving programs, PIN-code security and tamper resistant housing
- 70 Memory spaces, CR2032 battery and 3-year power reserve
- Suitable for DIN rail mounting, made in Germany
- 240V, 16amp AC1, 8amp AC3

SMART SWITCH DIGITAL 1 CH

Part No. CTS-C15

- Digital time switch with 24-hour, 7-day and yearly scheduling capabilities. Bluetooth 4.0 and PC programmable
- DIN mount, large screw terminals, PIN-code security and tamper latch. Made in Germany
- Built in astronomical switch, 8-year power reserve and 500 memory spaces
- Auto summer/winter time, manual override, pulse, cycle and wildcard mode
- 240V, 16amp AC1, 10amp AC3

SMART SWITCH DIGITAL 2 CH 12 & 24V UC

Part No. CTS-C25-12/24

- 2 channel digital time switch featuring 24-hour, 7-day and yearly scheduling capabilities. Bluetooth 4.0 and PC programmable
- DIN mount, large screw terminals, PIN-code security and tamper latch
- 8-year power reserve and 500 memory spaces, made in Germany
- Auto summer/winter time, manual override,, pulse, cycle and wildcard mode
- 12DC & 24AC, 16amp AC1, 10amp AC3

SMART SWITCH DIGITAL 2 CH

Part No. CTS-C25

- 2 channel digital time switch with 24-hour, 7-day and yearly scheduling capabilities. Bluetooth 4.0 and PC programmable
- DIN mount, large screw terminals, PIN-code security and tamper latch. Made in Germany
- Built in astronomical switch, 8-year power reserve and 500 memory spaces
- Auto summer/winter time, manual override, pulse, cycle and wildcard mode
- 240V, 16amp AC1, 10amp AC3

TIMERS

PARAGON DOMESTIC TIMERS

- Voltage: 240V
- Amperage: 15 Amp
- Timing: 6 hours and 21 minutes

Part No.	Description	Unit	Qty
RANA1400-21	TIMER DEFROST 6HR 21MINS	EA	1
RANB1401-21	TIMER DEFROST 8HR 20MIN	EA	1

THEBEN

- Theben Timer 24 hours

Part No.	Description	Unit	Qty
RANSUL181H	SUL181H THEBEN 24HR TIMER	EA	1
RANTHE0086AU	PAIR RED & BLUE PINS 6 THEBEN	EA	1
RANWF64B	TIMER 24HR THEBEN WF64B	EA	1
RANWF64C	TIMER 24HR 7DAY THEBEN WF64C	EA	1
RANWTR610	THEBEN TIMER PROGRAM TR610TOP2	EA	1

PARAGON COMMERCIAL TIMERS

- Switching Ratings: 10 Amps, 345VA
- Delay Cycle: 0 - 30 minutes
- Defrost Cycle: 3 - 45 minutes (3 minute graduations)
- Drain Cycle: 3 - 15 minutes

Part No.	Description	Unit	Qty
RAN632-21	TIMER DEFROST W/ FAN DELAY	EA	1
S804521	DEFROST TIMER TIME INIT/TERM	EA	1
S814521	DFR TIMER TIME INIT/TEMP OR PRESS TERM	EA	1
RAN8245-21	TIMER DEFROST PRESSURE TERMIN	EA	1

PRESSURE CONTROLS

RANCO PRESSURE CONTROLS

- Pressure control
- High limit adjustment screw
- Reset button

Part No.	Description	Unit	Qty
RAN016-8705	L/P CONTROL MAN-RESET 1/4FLARE	EA	1
RAN016-8706	L/P CONTROL AUTO 1/4 FLARE	EA	1
RAN016-8713	L/P CONTROL AUTO CAPILLARY	EA	1
RAN016-8750	H/P CONTROL AUTO 1/4 FLARE	EA	1
RAN016-8751	H/P CONTROL MAN-RESET 1/4FLARE	EA	1
RAN017-8701	D/P CONTROL AUTO 1/4 FLARE	EA	1
RAN017-8703	D/P CONTROL MAN-RESET HL FLARE	EA	1
RAN017-8705	D/P CONTROL MAN-RESET HI FLARE	EA	1
RAN017-8711	D/P CONTROL AUTO CAPILLARY	EA	1

RANCO CONTROL ACCESSORIES

- Capillary Adaptor
- Senses the pressure difference

Part No.	Description	Unit	Qty
PRCT-900DEP	CAPILLARY ADAPTER KIT W/-DEPR.EA 1	EA	1
PRCT-900M	CAPILLARY ADAPTER KIT 900MM EA 1	EA	1
RAN018-100-080	ICEBANK TSTAT FOR AFTERMARKET	EA	1
RAN31696-1	ANGLE BRACKET RANCO	EA	1
RAN3600253006	ASSY COVER 016	EA	1
RAN3600254004	ASSY COVER 017	EA	1
RAN48129-3	FLAT BRACKET RANCO	EA	1

CAPILLARY KITS

- Supplied in convenient service packs
- Full range of sizes available

Part No.	Description	Length (mm)	ID (mm/inch)	OD (mm)	Unit	Qty
CAPSP1	CAPILLARY KIT 0.66IDX1.80MMODX3660 SP1	3660	0.65/0.0260	1.8	EA	1
CAPSP2	CAPILLARY KIT 0.80IDX2.06MMODX3660 SP2	3660	0.80/0.0315	2.06	EA	1
CAPSP3	CAPILLARY KIT 0.90IDX2.18MMODX3660 SP3	3660	0.90/0.0335	2.18	EA	1
CAPSP4	CAPILLARY KIT 1.10IDX2.16MMODX4270 SP4	4270	1.10/0.0435	2.16	EA	1
CAPSP4.5	CAPILLARY KIT 1.20IDX2.26MMODX4270 SP4.5	4270	1.20/0.0472	2.26	EA	1
CAPSP5	CAPILLARY KIT 1.30IDX2.58MMODX4270 SP5	4270	1.30/0.0510	2.58	EA	1
CAPSP6	CAPILLARY KIT 1.4DX2.70MMODX3660 SP6	3660	1.40/0.0550	2.7	EA	1
CAPSP6.5	CAPILLARY KIT 1.50IDX2.82MMODX3660 SP6.5	3660	1.50/0.0591	2.82	EA	1
CAPSP7	CAPILLARY KIT 1.62IDX2.94MMODX3050 SP7	3050	1.62/0.0640	2.94	EA	1
CAPSP8	CAPILLARY KIT 1.78IDX3.10MMODX3660 SP8	3660	1.78/0.0700	3.1	EA	1
CAPSP9	CAPILLARY KIT 1.90IDX3.06MMODX2750 SP9	2750	1.90/0.0750	3.06	EA	1
CAPSP10	CAPILLARY KIT 2.04IDX3.44MMODX3050 SP10	3050	2.04/0.0800	3.44	EA	1
CAPSP11	CAPILLARY KIT 2.24IDX3.54MMODX3660 SP11	3660	2.24/0.0880	3.54	EA	1

PENN PRESSURE CONTROLS

- Pressure Control
- Splash proof enclosure
- Generous wiring space
- Sight set calibrated pressure adjustment

Part No.	Description	Unit	Qty
PENP77AAA-9300	PRESS CONTROL LP -0.5/7BAR	EA	1
PENP77AAA-9350	PRESS CONTROL HP 3/30BAR	EA	1
PENP77AAA-9351	PRESS CONTROL HP FAN 3.5/21BAR	EA	1
PENP77AAW-9355	PRESS CONTROL HP FAN 3/42BAR	EA	1
PENP77BCA-9300	PRESS CONTROL LP -0.5/7BAR MAN	EA	1
PENP77BEA-9350	PRESS CONTROL HP 3/30BAR MAN	EA	1
PENP78ALA-9351	PRESS CONTROL DP 3.5/21BAR	EA	1
PENP78LCA-9300	PRESS CONTROL DP 0.5/7BAR AUTO	EA	1
PENP78MCA-9300	PRESS CONTROL DP MAN ON HIGH	EA	1
PENP78PGA-9300	PRESS CONTROL DP MAN ON H&L	EA	1

PENN CONTROL ACCESSORIES

MOUNTING BRACKET L SHAPE

Unit: EA Qty: 1

Part No. PEN271-51L

- L Shaped universal mounting bracket
- Suits Johnson Controls, Penn products

PENN DIFFERENTIAL PRESSURE CONTROLS

- Applications: Air proving with electric duct heaters
- Sensitivity: 40 Pa
- Action: SPDT

Part No.	Description	Unit	Qty
PENP32AC-2C	DIFF PRESS SWITCH 12.5/1246PA	EA	1
PENP32AF-2C	SENSITIVE DP SWITCH 12 5/1246PA	EA	1
PENP74EA-8C	DIFF WATER P/S 14/180KPA	EA	1

PENN OIL FAILURE CONTROLS

- Provide dependable & economical cutoff for pressure lubricated compressors
- Factory set pressure adjustment
- Built in time delay relay

Part No.	Description	Unit	Qty
PENP28AA-41C	P/S CTRL OIL FAIL 90SEC DELAY	EA	1
PENP28AA-42C	P/S CTRL OIL FAIL 60SEC DELAY	EA	1
PENP45NCA-12C	P/S OIL FAIL 120S COPELAND	EA	1

DIGITAL CONTROLLERS

CAREL IR33 CONTROLS

- Application: refrigeration
- Additional features: auxiliary evaporator control
- Condenser fan control
- Signals on the display

Part No.	Description	Unit	Qty
CARIR33COHB00	CAREL L/T TSTAT +2 PROBES 240V	EA	1
CARIR33SOER00	CAREL M/T TSTAT + 1 PROBE 240V	EA	1
CARIR33COHR00	IR33COHR00 L/T TSTAT + 2 PROBES PROBE	EA	1

CAREL PJEZ CONTROLS

- Suits either M/T or L/T units
- Compact

Part No.	Description	Unit	Qty
CARPJEZC0000	PJEZC00000 CAREL L/T + 2 PROBE	EA	1
CARPJEZSOH000	PJEZSOH000 CAREL M/T + 1 PROBE	EA	1

CAREL MASTERCELLA CONTROLS

- Carel med temp Mastercella
- Inputs: ambient, defrost temperature, digital
- Output Compressor 30 Amps

Part No.	Description	Unit	Qty
CARMD33A5ER00	CAREL M/T MASTERCELLA 240V	EA	1
CARMD33D5EB00	CAREL L/T MASTERCELLA 240V	EA	1

CAREL IR33 ACCESSORIES

- Remote control for IR33 model temperature controllers

Part No.	Description	Unit	Qty
CARIRTRRES000	IRTRRES000 CARELIR REMOTE CONT	EA	1
CARRLY2403HP	RELAY 3HP 30AMP 240VAC	EA	1
CARTRA00BE240	TRANSFORMER 240/24VAC	EA	1
CARTRADRBE240	TRANSFORMER 240/24VAC DIN RAIL	EA	1

UNIVERSAL DIGITAL CONTROLLER MOUNTING BOX

MOUNT BOX STD

Unit: EA Qty: 1

Part No. ELID8000MB

- Plastic mount box
- Suits temperature controllers

TEMPERATURE PROBES

- NTC: passive temperature probes are devices that provide the value of the heater, which is converted into temperature by the electronic control

Part No.	Description	Unit	Qty
CARNTC015HP00	NTC015HP TEMP PROBE 1.5M	EA	1
CARNTC015WH01	NTC015WH01 SENSOR 1.5MTR S/STEEL TIP	EA	1
CARNTC060HP00	NTC060HP TEMP PROBE 6M	EA	1
CARNTC060WH01	NTC060WH01 SENSOR 6.0MTR S/STEEL TIP	EA	1

CAREL PRESSURE TRANSDUCERS

- Extended operating temperature range
- Resistance to vibration

Part No.	Description	Unit	Qty
CARSPKC002310	CABLE CAREL CONNECT 2M	EA	1
CARSPKT0011C0	TRANSDUCER OIL CAREL 0-10BAR	EA	1
CARSPKT0021C0	TRANSDUCER SUCT CAREL-0.5-7BAR	EA	1
CARSPKT0031C0	TRANSDUCER DISCH CAREL 0-30BAR	EA	1

DIXELL

- Power Supply: 240 VAC
- Probe Inputs: 2 NTC / PTC Probes
- Digital Input: 1 Configurable
- Relay Output: 1 Compressor

Part No.	Application Temp	Voltage	Probe	Probe Included	Temp Range	Display	Hotkey Prog.	Outputs				Unit	Qty
								Compressor	Fans	Defrost	AUX		
VDIXR20CX	Medium	240VAC	NTC	Yes	40/110C	Blue	Yes	Yes			Yes	EA	1
VDIXR30CX	Medium	240VAC	NTC	Yes	40/110C	Blue	Yes	Yes			Yes	EA	1
VDIXR40CX	Medium/Low	240VAC	NTC	Yes	40/110C	Blue	Yes	Yes	Yes	Yes	Yes	EA	1
VDIXR60CX	Low	240VAC	NTC	Yes	40/110C	Blue	Yes	Yes	Yes	Yes	Yes	EA	1
VDIXR70CX	Low	240VAC	NTC	Yes	40/110C	Blue	Yes	Yes	Yes	Yes	Yes	EA	1
VDXR06CX	Low	240VAC	NTC	Yes	40/110C	Red	Yes	Yes	Yes	Yes	Yes	EA	1
VDIXNG6P	Medium	240VAC	NTC	1.5M	-40/110	N/A	N/A	N/A	N/A	N/A	N/A	EA	1
VDIXNG6P10	Medium	240VAC	NTC	10M	-40/110	N/A	N/A	N/A	N/A	N/A	N/A	EA	1
VDIXNG6P3	Medium	240VAC	NTC	3M	-40/110	N/A	N/A	N/A	N/A	N/A	N/A	EA	1

FLOW SWITCHES AND VALVES

WATER FLOW SWITCHES STANDARD

FLOW SWITCH PADDLE 1IN BSP IP43

Unit: EA Qty: 1

Part No. PENF61SB-9100

- Flow switch
- Single pole double throw
- Stainless steel paddle
- Paddle segments can be removed or trimmed as needed

WATER REGULATING VALVES (PRESSURE/FLANGE)

WATER VALVE 2 1103/1793KPA4

Unit: EA Qty: 1

Part No. PENV46AS-2C

- Accessible range spring
- Take apart construction

WATER REGULATING VALVES (R410A/NPT)

- Valve water

Part No.	Description	Unit	Qty
PENV246GD	VALVE WATER REG NPT HP 1IN	EA	1
PENV246GE	VALVE WATER REG NPT HP 1 1/4IN	EA	1

WATER REGULATING VALVES (PRESSURE/NPT)

- Valve water

Part No.	Description	Unit	Qty
PENV46AA-9600	VALVE WATER REG NPT PRESS 3/8IN	EA	1
PENV46AB-9600	VALVE WATER REG NPT PRESS 1/2IN	EA	1
PENV46AC-9600	VALVE WATER REG NPT PRESS 3/4IN	EA	1
PENV46AD-9600	VALVE WATER REG NPT PRESS 1IN	EA	1
PENV46AE-9600	VALVE WATER REG NPT PRESS 1 1/4IN	EA	1

VC ACTUATOR VALVES AND CARTRIDGE

- All VC Series actuator-valve combinations provide 60 psi close-off - minimal actuator power consumption
- Use two-position actuators with 1000 Series 2 way and 6000 Series 3-way VC valve bodies only
- Quick-connect or one-meter cable electrical connections available
- Actuator head installation doesn't require draining the system
- On/Off models with six second nominal timing

Part No.	Description	Unit	Qty
HWVC2011ZZ00	VC VALVE ACTUATOR 24V	EA	1
HWVC6931ZZ11	VC ACTUATOR 24 VAC 3 POS FLOATING	EA	1
HWVCZZ1100	VC VALVE CARTRIDGE 2 WAY LINEAR FLOW	EA	1
HWVCZZ6100	H/WELL CARTRIDGE 3WAY VLV HEAT	EA	1

DAMPER MOTORS

- Electronic motor driven actuators for open-close, three-position and modulating control
- Type-specific variations with adjustable offset and span for the positioning signal
- Nominal torque 5 Nm. Operating voltage AC 24 V/DC 24..48 V or AC 100...240V
- Mechanically adjustable span between 0-90 deg
- Pre-wired with 0.9m long connection cables

Part No.	Description	Unit	Qty
SBGDB341.1E	DAMPER ACT ROT 5NM 230V AC 3 POS NSR	EA	1
SBGDB163.1E	DAMPER MOTOR 24 0-10V NOSWITCH	EA	1
SBGDB164.1E	DAMPER MOTOR 24 0-10V C/SWITCH	EA	1

THERMOSTATS

RANCO THERMOSTATS

- Commercial Ranco thermostat
- Universal mounting and compact design
- Wide range adjustable differential

Part No.	Description	Unit	Qty
RAN016-6930	TSTAT -34-32C	EA	1
RAN016-6950	TSTAT L/TEMP -35/-7C ADJ	EA	1
RAN016-6951	TSTAT M/TEMP -18/13C ADJ	EA	1
RAN016-6954	TSTAT H/TEMP -5/25 C ADJ	EA	1
RAN016-6980	TSTAT -18/13 ADJ	EA	1
RAN016-6981	TSTAT -5/25C ADJ DIFF	EA	1
RAN016-6983	TSTAT +10/40C ADJ DIFF	EA	1
RAN016-8900	TSTAT -18/13 4.5MM BULB	EA	1

MISCELLANEOUS RANCO THERMOSTATS

- Thermostat A22-1129-00
- Ice maker bin level control

Part No.	Description	Unit	Qty
RANA22-1129-00	ICE BIN LEVEL CONTROL	EA	1
RANA22-2217-057	CRYSTAL TSTAT HARVEST	EA	1
RANA22-2453-70	ADT TSTAT AIR CONDITIONER	EA	1
RANC17-177	ADAPTABLE COLD CONTROL AIRCON	EA	1
RANC17-334	AIR COND. AUTO HEATCOOL SWITCH	EA	1
RANE152217257	E15-2217-257 DE-ICE CONTROL	EA	1
RANRCR-5052-2	DE ICE CONTROL RCR5052	EA	1

RANCO DOMESTIC STYLE THERMOSTATS

Part No.	Description	Unit	Qty
RANVA-2	ABSORPTION REFRIGERATOR	EA	1
RANVB-7	BEVERAGE COOLERS	EA	1
RANVC-1	SINGLE DOOR REFRIG THERMOSTAT	EA	1
RANVF-3	STANDARD FREEZER	EA	1
RANVP-4	PUSH BUTTON DEFROST	EA	1
RANVR-6	FREEZER WITH REVERSE SIGNAL	EA	1
RANVS-5	FREEZER WITH STANDARD SIGNAL	EA	1
RANVT-9	CTRL (2DOOR REFRG CONT CUT IN)	EA	1
RANVTD9	ICEMAKER HARVEST GEN REPLACEMENT	EA	1

DANFOSS DOMESTIC THERMOSTATS

- Danfoss thermostat

Part No.	Description	Unit	Qty
DAN077B6043	077B6043 DANFOSS DEFROST STAT	EA	1
DAN077B6138	TSTAT DANFOSS 077B6138	EA	1
DAN077B7001	DANFOSS #1 REFRIG THERMOSTAT	EA	1
DAN077B7002	DANFOSS #2 P/B THERMOSTAT	EA	1
DAN077B7003	DANFOSS #3 CYCLIC THERMOSTAT	EA	1
DAN077B7005	DANFOSS #5 FREEZER THERMOSTAT	EA	1
DAN077B7006	DANFOSS #6 FRZ SIGNAL TSTAT	EA	1
DAN077B7007	DANFOSS #7 FRZ REV SIGNAL TSTAT	EA	1
DAN077B7008	DANFOSS #8 BEVERAGE TSTAT	EA	1

PENN THERMOSTATS

- Penn thermostat
- Wide temperature ranges
- Constant differential through entire range
- Unaffected by cross ambient conditions

Part No.	Description	Unit	Qty
PENA19ABC-41C	TSTAT GENERAL PURPOSE -34/38C	EA	1
PENA19AAB-42C	TSTAT 40/120C. OPEN ON RISE 1.8M	EA	1
PENA421ABC-02C	TSTAT ELECTRONIC -34/100C SINGLE STAGE	EA	1
PENA421AEC-02C	TSTAT ELECT TYPE 4 NEMA -40/100C 1 STAGE	EA	1
PENA19ABC-27C	TSTAT HOT WATER 38/116C 1/2NPT	EA	1
PENA19ABC-5C	TSTAT 10/55C 2M CAP SPDT	EA	1
PENA19ABC-67C	TSTAT GENERAL PURPOSE -34/38C 6M	EA	1
PENA19ACA-28	TSTAT -35/40C MAN RESET 1.8M	EA	1
PENA19ADB-26C	TSTAT 38/116C MAN RESET SPST	EA	1
PENA19ADB-27C	PENN THERMOSTAT A19ADB-27C	EA	1
PENA19ARC-9105	TSTAT COOLING TOWER 5/50C 2M	EA	1
PENA19BAC-3C	TSTAT COILED BULB 0-43C SPST	EA	1
PENA25CN-4C	TSTAT DUCT -4/102C MAN RESET	EA	1
PENA28AA-65C	TSTAT -34/38C 2 STAGE 2 4M CAP	EA	1
PENA419ABC-1C	TSTAT ELECTRONIC -34/100C SINGLE STAGE	EA	1
PENA419AEC-2C	TSTAT ELECTRONIC -34/100C W/PF 2MT SENS	EA	1

ROOM THERMOSTATS AND COVERS

PENN ROOM TSTATS AND HUMIDSTATS

- Universal models for heating/cooling

Part No.	Description	Unit	Qty
PENT2000HHC	TSTAT 1 STAGE10/30CKNOBW/OFANSPD CNTRL	EA	1
PENT25B-9101	TSTAT 2 STAGE 5/32C KNOB	EA	1
PENT25B-9102	TSTAT 2 STAGE 5/32C SPDT CONCEALED	EA	1
PENT26S-22C	TSTAT 2 STAGE 5/30C KNOB 240V	EA	1

HONEYWELL ROOM THERMOSTATS

- Universal digital thermostat
- Voltage: 24V
- Manual operation

Part No.	Description	Unit	Qty
CG161746	TSTAT DIGITAL PRO5000 24V	EA	1
CG161748	TSTAT DIGITAL PRO6000	EA	1
HWCMT907A1041	THERMOSTAT HONEYWELL CMT907A1041	EA	1

WHITE RODGERS ROOM THERMOSTATS

- Vertical
- Heat/Cool
- White Rodgers
- Digital display

Part No.	Description	Unit	Qty
W0001	VERTICAL PROGRAM HEAT COOL 1E78-151	EA	1
W0004	HORIZ HEAT/COOL STAT 1F78-144 (2 X AAA	EA	1
W0005	VERTICAL HEAT ONLY STAT 01E78-140	EA	1
W0006	VERTICAL HEAT-COOL STAT 1E78-144	EA	1
W0009	HORIZONTAL PROGRAM HEAT COOL 1F78-151	EA	1
W00172BLUR	TSTAT BLU REM/SENSOR 1F97-1277	EA	1

UNIVERSAL REMOTES

- Easy 3 minute programming
- Over 1000 different codes
- Temperature select, fan speed, wind direction and clock
- Comes complete with batteries

Part No.	Description	Unit	Qty
RANAC-ULTRA	ULTRA UNIVERSAL AIRCON REMOTE	EA	1
RANAC-ULTRAPLUS	ULTRA PLUS MOTEL A/C REMOTE	EA	1

LOCKABLE THERMOSTAT COVERS

- Thermostat cover
- Complete with locking key
- Vertical or horizontal mounting

Part No.	Description	Unit	Qty
SBTGK	THERMOSTAT COVER LOCKABLE 13.4X11.X7.6CM	EA	1
SBTGRK	THERMOSTAT COVER LOCKABLE 16.2X8.9X7.6CM	EA	1
SBTGUK2	THERMOSTAT COVER LOCKABLE 21X13.7X8.9CM	EA	1
W0028	F29-143 TSTAT GUARD 187MM X 118MM SMALL	EA	1
W0029	F29-198 TSTAT GUARD 252MM X 157MM LARGE	EA	1

CONTACTORS

SCE

- Top and side mount auxillary contacts
- Coil connection terminals are on both sides of the contactor
- All coils are 50/60hz rated

Part No.	Description	Unit	Qty
VMC-9B-240VAC	LC CONTACTOR 9A/4KW 240VAC	EA	1
VMC-12B-240VAC	LC CONTACTOR 12A/5.5KW 240VAC	EA	1
VMC-18B-240VAC	LC CONTACTOR 18A/7.5KW 240VAC	EA	1
VMC-22B-240VAC	LC CONTACTOR 22A/11KW 240VAC	EA	1
VMC-32A-240VAC	LC CONTACTOR 32A/15KW 240VAC	EA	1
VMC-40A-240VAC	LC CONTACTOR 40A/18.5KW 240VAC	EA	1
VMC-50A-240VAC	LC CONTACTOR 50A/22KW 240VAC	EA	1
VMC-65A-240VAC	LC CONTACTOR 65A/30KW 240VAC	EA	1

OVERLOAD

SCE

- Differential and phase fail protection
- Manual or automatic reset button
- Bimetal style trip mechanism

Part No.	Description	Unit	Qty
VMT-32-0.16	LS O/LOAD 0.1-0.16A UP TO 32A	EA	1
VMT-32-0.25	LS O/LOAD 0.16-0.25A UP TO 32A	EA	1
VMT-32-0.4	LS O/LOAD 0.25-0.4A UP TO 32A	EA	1
VMT-32-0.63	LS O/LOAD 0.4-0.63A UP TO 32A	EA	1
VMT-32-1	LS O/LOAD 0.63-1.0A UP TO 32A	EA	1
VMT-32-1.6	LS O/LOAD 1.0-1.6A UP TO 32A	EA	1
VMT-32-2.5	LS O/LOAD 1.6-2.5A UP TO 32A	EA	1
VMT-32-4	LS O/LOAD 2.5-4.0A UP TO 32A	EA	1
VMT-32-6	LS O/LOAD 4.0-6.0A UP TO 32A	EA	1
VMT-32-8	LS O/LOAD 5.0-8.0A UP TO 32A	EA	1
VMT-32-9	LS O/LOAD 6.0-9.0A UP TO 32A	EA	1
VMT-32-10	LS O/LOAD 7.0-10.0A UP TO 32A	EA	1
VMT-32-13	LS O/LOAD 9.0-13A UP TO 32A	EA	1
VMT-32-18	LS O/LOAD 12-18A UP TO 32A	EA	1
VMT-32-22	LS O/LOAD 16-22A UP TO 32A	EA	1
VMT-32-25	LS O/LOAD 18-25A UP TO 32A	EA	1
VMT-32-32	LS O/LOAD 22-32A UP TO 32A	EA	1
VMT-32-40	LS O/LOAD 28-40A UP TO 32A	EA	1
VMT-63-40	LS O/LOAD 28-40A UP TO 63A	EA	1
VMT-63-50	LS O/LOAD 34-50A UP TO 63A	EA	1
VMT-63-65	LS O/LOAD 45-60A UP TO 63A	EA	1

MOTORS, FANS & OILS

Royce Cross Motors	85
Axial Motors and Fans	85
Q Motors and Fans	86
Fan Motor Kits	86
Refrigeration oil	87
Compressor Oil	87

ROYCE CROSS MOTORS

OEM FAN MOTORS

- Airconditioning motor

Part No.	Description	Unit	Qty
VRCT851804STEF02T	MOTOR 180W 3PHASE 4POLE SINGLE SHAFT	EA	1
VRCT851506STEM02	MOTOR 150W 6P 900/3SPD SINGLE SHAFT	EA	1
VRCT851304DSODPC02	MOTOR 130W 1370RPM/MULTI (8061S122-80) T	EA	1
VRCT852006DSODPC02	MOTOR 1/4HP 1PH 6P 890/3SP 200W D/S	EA	1
VRCT856004SODPB02	MOTOR 600W TURBO	EA	1
VRCT857504SODPB02	MOTOR FAN 3SP 750W	EA	1
VRCT9011004DSODPC2	MOTOR 1100W 4P 1PH 3SP 1400RPM (SAME AS	EA	1
VRCT9011204SODPA02	MOTOR 1120W SPEED 2	EA	1
VRCT9015004SODPA02	MOTOR 1500W SPEED 2	EA	1
VRCT851804STEM02	MOTOR 180W 4P 1380/1SPD SINGLE SHAFT	EA	1
VRCT852506STEM02	MOTOR 250W 6P 910/1SPD SINGLE SHAFT	EA	1
VRCT853006STEM02	MOTOR 300W 6P 900/1SPD SINGLE SHAFT	EA	1
VRCT853706MSTEM05	MOTOR 370W 3SPD (808557NTA-A11) SINGLE S	EA	1
VRCT853706STEB02T	MOTOR 370W 6P 890/1SPD 3PHASE SINGLE SHA	EA	1
VRCT853706STEM02	MOTOR 370W 6P 900/1SPD SINGLE SHAFT	EA	1
VRCT853756STED02TS	MOTOR 375W 3PH 1SPD 5/8 SINGLE SHAFT	EA	1
VRCT854254STEB02	MOTOR VRCT854254STEB02 SINGLE SHAFT	EA	1
VRCT854506STED02S	MOTOR 450W 1PH 2SPD 3/4 SINGLE SHAFT	EA	1
VRCT855504SB02	MOTOR 600W 3/4HP 1PH 4P 3SPD SINGLE SHAF	EA	1
VRCT857504SB02	MOTOR 750W 1HP 1PH 4P 3SPD SINGLE SHAFT	EA	1

AXIAL MOTORS AND FANS

AXIAL MOTORS

- High efficiency external rotor motors standard air direction
- Drawing (over motor) terminal box connection

Part No.	Description	Unit	Qty
AX-4-250-S-240	AXIAL FAN MTR 4P 1PHASE 250MM FAN BLADE	EA	1
AX-4-300-S-240	AXIAL FAN MTR 4P 1PHASE 300MM FAN BLADE	EA	1
AX-4-350-S-240	AXIAL FAN MTR 4P 1PHASE 350MM FAN BLADE	EA	1
AX-4-400-S-240	AXIAL FAN MTR 4P 1PHASE 400MM FAN BLADE	EA	1
AX-4-450-S-240	AXIAL FAN MTR 4P 1PHASE 450MM FAN BLADE	EA	1
AX-4-500-S-240	AXIAL FAN MTR 4P 1PHASE 500MM FAN BLADE	EA	1
AX-6-500-S-415	AXIAL FAN MTR 6P 3PHASE 500MM FAN BLADE	EA	1
AX-6-630-S-415	AXIAL FAN MTR 6P 3PHASE 630MM FAN BLADE	EA	1

Q MOTORS AND FANS

SHADED POLE 'Q' SERIES MOTORS

- 14 point multi-mount frame
- Single phase

Part No.	Output Watts "W"	Power Input W (Rated)	Current amps	Speed rpm	Air flow m3/hr	Fan Blade mm	Rated Supply VSC/Hz	Weight Kg	Unit	Qty
Q-5-13	5	29	0.2	1300	455	200	220-240/50	0.8	EA	1
Q-10-20	10	36	0.25	1300	650	230	220-240/50	1.1	EA	1
Q-16-25	16	60	0.45	1300	760	230	220-240/50	1.4	EA	1
Q-25-40	25	90	0.7	1300	1030	300	220-240/50	1.8	EA	1
Q-34-45	34	110	0.85	1300	1210	300	220-240/50	2	EA	1

FAN BLADES TO SUIT Q MOTORS

- Fan blade - 4 pin, 5 blade (aluminium)

Part No.	Description	Diameter (mm)	Material	Direction	Pitch Deg	Unit	Qty
Q-172-S	FAN BLADE 172MM SUCK	172	ALUMINIUM	SUCK	28DEG	EA	1
Q-200-B	FAN BLADE 200MM BLOW	200	ALUMINIUM	BLOW	28DEG	EA	1
Q-200-S	FAN BLADE 200MM SUCK	200	ALUMINIUM	SUCK	28DEG	EA	1
Q-230-S	FAN BLADE 230MM SUCK	230	ALUMINIUM	SUCK	28DEG	EA	1
Q-250-B	FAN BLADE 250MM BLOW	248	ALUMINIUM	BLOW	28DEG	EA	1
Q-250-S	FAN BLADE 248MM SUCK	248	ALUMINIUM	SUCK	28DEG	EA	1
Q-254-S	FAN BLADE 254MM SUCK	254	ALUMINIUM	SUCK	28DEG	EA	1
Q-300-S	FAN BLADE 300MM SUCK	300	ALUMINIUM	SUCK	28DEG	EA	1

EC MOTORS

UNADA UC & FAN MOTOR (F3410)

Unit: EA Qty: 1

Part No. FM103709M

- Unada EC Motor, suits bottle coolers and display cases
- Reversible direction - 120/240V 50HZ - -40C TO +50C
- Programmable up to 2480rpm

FAN MOTOR KITS

FAN MOTORS AND KITS

Part No.	Description	Unit	Qty
SSM672	FAN MOTOR KIT W/ BLADES	EA	1
SSM675	MOTOR UTILITY	EA	1
SSM998	FAN MOTOR UNIVERSAL EVAPORATOR	EA	1

MOTOR PROTECTOR 3 PHASE

Unit: EA Qty: 1

Part No. STPMPU

- Low cost universal 3 phase motor protection
- Operating temperature: -40 to 75 degrees Celsius
- Monitors protect against phase loss, reversal and imbalance

REFRIGERATION OIL

SUNISO OIL POE

- High stability
- Long life

Part No.	Description	Unit	Qty
VSUN4GS4	OIL 4GS SUNISO 4L	EA	1
VSUN4GS20	OIL 4GS SUNISO 20L	EA	1
VSUN3GS205	OIL 3GS SUNISO 205L	EA	1
VSUN3GS20	OIL 3GS SUNISO 20L	EA	1
VSUN4SA20	OIL 4SA SUNISO 20L	EA	1
VSUN4SA205	OIL 4SA SUNISO 205L	EA	1
VSUNSL32S1	OIL POE SL32SS SUNISO 1L	EA	1
VSUNSL68S1	OIL POE SL68SS SUNISO 1L	EA	1
VSUNSL32S4	OIL POE SL32SS SUNISO 4L	EA	1
VSUNSL68S4	OIL POE SL68SS SUNISO 4L	EA	1
VSUNSL68S20	OIL POE SL68SS SUNISO 20L	EA	1
VSUNSL32S20	OIL POE SL32SS SUNISO 20L	EA	1

GLYCOL

- Propylene
- Synthetic organic compound
- Used in food processing

Part No.	Description	Unit	Qty
VPROGLY20	PROPYLENE GLYCOL F/GRADE 20LITRE	EA	1
VPROGLY200	PROPYLENE GLYCOL F/GRADE 200L	EA	1

COMPRESSOR OIL

OIL PUMP

OIL PUMP MAXFLOW COMBINATION W/ TUBING

Unit: EA Qty: 1

Part No. VPCO-1

- Oil charging pump with tubing
- Enables you to add refrigerant oil to a system under pressure
- Universally mounts direct to one gallon containers
- Foot stand base provides support while transferring fluid
- Connector: 1/4 inch SAE

CAPACITORS

Run Capacitors	89
Start Capacitors	91
Dual Run Capacitors	91
Universal Capacitors	91

RUN CAPACITORS

METAL

- Run capacitor
- P1 safety protection

Part No.	Description	Unit	Qty
VRC4-1	RUN CAP 450V 1MFD	EA	1
VRC4-1.5	RUN CAP 450V 1.5MFD	EA	1
VRC4-2	RUN CAP 450V 2MFD	EA	1
VRC4-3	RUN CAP 450V 3MFD	EA	1
VRC4-4	RUN CAP 450V 4MFD	EA	1
VRC4-5	RUN CAP 450V 5MFD	EA	1
VRC4-6	RUN CAP 450V 6MFD	EA	1
VRC4-8	RUN CAP 450V 8MFD	EA	1
VRC4-10	RUN CAP 450V 10MFD	EA	1
VRC4-10TH	CAPACITOR 10UF P2 MOTOR RUN THREADED	EA	1
VRC4-12	RUN CAP 450V 12MFD	EA	1
VRC4-14	RUN CAP 450V 14MFD	EA	1
VRC4-15	RUN CAP 450V 15MFD	EA	1
VRC4-15TH	CAPACITOR 15UF P2 MOTOR RUN THREADED	EA	1
VRC4-16	RUN CAP 450V 16MFD	EA	1
VRC4-20	RUN CAP 450V 20MFD	EA	1
VRC4-20TH	CAPACITOR 20UF P2 MOTOR RUN THREADED	EA	1
VRC4-25	RUN CAP 450V 25MFD	EA	1
VRC4-25TH	CAPACITOR 25UF P2 MOTOR RUN THREADED	EA	1
VRC4-30	RUN CAP 450V 30MFD	EA	1
VRCL4-30	CAPACITOR 30MFD 45X90 WITH LEADS	EA	1
VRC4-35	RUN CAP 450V 35MFD	EA	1
VRCL4-35	CAPACITOR 35MFD 45X90 WITH LEADS	EA	1
VRC4-40	RUN CAP 450V 40MFD	EA	1
VRCL4-40	CAPACITOR 40MFD 45X90 WITH LEADS	EA	1
VRC4-45	RUN CAP 450V 45MFD	EA	1
VRC4-50	RUN CAP 450V 50MFD	EA	1
VRC4-55	RUN CAP 450V 55MFD	EA	1
VRC4-60	RUN CAP 450V 60MFD	EA	1
VRC4-70	RUN CAP 450V 70MFD	EA	1
VRC4-75	RUN CAP 450V 75MFD	EA	1
VRC4-80	RUN CAP 450V 80MFD	EA	1
VRC4-90	RUN CAP 450V 90MFD	EA	1
VRC4-100	RUN CAP 450V 100MFD	EA	1

PLASTIC WITH DETACHABLE BOLT

- Run cap

Part No.	Description	Unit	Qty
VRCS-P-4-1	RUN CAP 1 MFD W/ DETACH BOLT	EA	1
VRCS-P-4-2	RUN CAP 2 MFD W/ DETACH BOLT	EA	1
VRCS-P-4-3	RUN CAP 3 MFD W/ DETACH BOLT	EA	1
VRCS-P-4-4	RUN CAP 4 MFD W/ DETACH BOLT	EA	1
VRCS-P-4-5	RUN CAP 5 MFD W/ DETACH BOLT	EA	1
VRCS-P-4-6	RUN CAP 6 MFD W/ DETACH BOLT	EA	1
VRCS-P-4-8	RUN CAP 8 MFD W/ DETACH BOLT	EA	1
VRCS-P-4-10	RUN CAP 10 MFD W/ DETACH BOLT	EA	1
VRCS-P-4-12	RUN CAP 12 MFD W/ DETACH BOLT	EA	1
VRCS-P-4-14	RUN CAP 14 MFD W/ DETACH BOLT	EA	1
VRCS-P-4-15	RUN CAP 15 MFD W/ DETACH BOLT	EA	1
VRCS-P-4-16	RUN CAP 16 MFD W/ DETACH BOLT	EA	1
VRCS-P-4-20	RUN CAP 20 MFD W/ DETACH BOLT	EA	1
VRCS-P-4-25	RUN CAP 25 MFD W/ DETACH BOLT	EA	1
VRCS-P-4-30	RUN CAP 30 MFD W/ DETACH BOLT	EA	1
VRCS-P-4-35	RUN CAP 35 MFD W/ DETACH BOLT	EA	1
VRCS-P-4-40	RUN CAP 40 MFD W/ DETACH BOLT	EA	1
VRCS-P-4-45	RUN CAP 45 MFD W/ DETACH BOLT	EA	1
VRCS-P-4-50	RUN CAP 50 MFD W/ DETACH BOLT	EA	1
VRCS-P-4-55	RUN CAP 50 MFD W/ DETACH BOLT	EA	1
VRCS-P-4-60	RUN CAP 60 MFD W/ DETACH BOLT	EA	1
VRCS-P-4-70	RUN CAP 70 MFD W/ DETACH BOLT	EA	1
VRCS-P-4-80	RUN CAP 80 MFD W/ DETACH BOLT	EA	1

START CAPACITORS

START CAPACITORS

- Start capacitor
- 250V

Part No.	Description	Unit	Qty
VSC2K25-30	START CAP 250V 25-30 MFD	EA	1
VSC2K25-40	START CAP 250V 31.5-40MFD	EA	1
VSC2K40-50	START CAP 250V 40-50MFD	EA	1
VSC2K50-63	START CAP 250V 50-63MFD	EA	1
VSC2K63-80	START CAP 250V 63-80MFD	EA	1
VSC2K72-88	START CAP 250V 72-88MFD	EA	1
VSC2K88-108	START CAP 250V 88-108MFD	EA	1
VSC2K108-130	START CAP 250V 108-130MFD	EA	1
VSC2K124-149	START CAP 250V 124-149MFD	EA	1
VSC2K145-174	START CAP 250V 145-174MFD	EA	1
VSC2K160-200	START CAP 250V 160-200MFD	EA	1
VSC2K189-227	START CAP 250V 189-227MFD	EA	1
VSC2K200-250	START CAP 250V 200-250 MFD WITH END CAP	EA	1
VSC2K216-260	START CAP 250V 216-260MFD	EA	1
VSC2K233-280	START CAP 250V 233-280MFD	EA	1
VSC2K250-315	START CAP 250V 250-315 MFD WITH END CAP	EA	1
VSC2K270-324	START CAP 250V 270-324MFD	EA	1

DUAL RUN CAPACITORS

DUAL RUN CAPACITORS

- Dual run cap

Part No.	Description	Unit	Qty
VRDC4-30-1.5	DUAL RUN CAPACITOR 30UF + 1.5UF	EA	1
VRDC4-35-6	DUAL RUN CAPACITOR 35UF + 6UF	EA	1
VRDC4-50-6	DUAL RUN CAPACITOR 50UF + 6UF	EA	1

UNIVERSAL CAPACITORS

UNIVERSAL CAPACITORS

UNIVERSAL CAPACITOR MUNICAP200

Unit: EA Qty: 1

Part No. CR0200

- Universal permanent motor run capacitor
- Protected to 10,000 AFC
- Full interrupter protection and thermal fuse
- Advanced epoxy resin insulating material
- Internal modular construction

HVAC CLEANERS & SEALANTS

Leak Detection	93
Sealants	94
Cleaners	95
Lubricant	96
Miscellaneous	96
Silicone	98
Deodorisers	98
Refrigerant Gas Cylinders	98

REFRIGERATION TECHNOLOGIES

DELIVERING PERFORMANCE WITHOUT HAZARDOUS INGREDIENTS

- Food Grade / Non-toxic
- EPA/VOC Compliant
- Biodegradable
- Non-Flammable
- No Odours

REFRIGERATION TECHNOLOGIES
products are sold and recognised worldwide
as the premier line of HVACR chemical products.

LEAK DETECTION

LEAK DETECTION

- Capable of detecting leaking down to 0.65 ounces per year
- Detects leaks on any gas

Part No.	Description	Unit	Qty
RT100G	MICRO LEAK DETECTOR BIG BLU 4L	EA	1
RT100S	MICRO LEAK DETECTOR BIG BLU 1L	EA	1
RT150G	MICRO LEAK DETECTOR SUPER BLU 4L	EA	1
RT150S	MICRO LEAK DETECTOR SUPER BLU 1L	EA	1

VIPER HEAT BLOCKING GEL

Unit: EA Qty: 1

Part No. RT410S

- Eco-friendly
- Will not produce toxic fumes

BRUSH ON LEAK DETECTOR BIG BLU

Unit: EA Qty: 1

Part No. RT175B

- Capable of detecting leaking down to 0.65 ounces per year
- Detects leaks on any gas
- Brush on

TRACE DYES

- Red penetrant dye in a mineral oil base
- 4 oz plastic bottle
- Completely harmless to refrig, A/C and hydraulic equipment

Part No.	Description	Unit	Qty
SHS20004	TRACE	EA	1
SHS21004	TRACE2	EA	1

SUPER SEAL

- Permanently seals and prevents leaks
- Installs quickly with no pumpdown or recovery
- For commercial and industrial single phase systems

Part No.	Description	Unit	Qty
GO944KIT	944KIT SUPER SEAL HVACR	EA	1
GO947KIT	947KIT SUPER SEAL ACR	EA	1
GO948KIT	948KIT SUPER SEAL COMMERCIAL	EA	1

LEAK LOCK 39ML DG

Unit: EA Qty: 1

Part No. VHC10001

- Leak Lock Thread Sealant 39ml
- adheres to internal surfaces and fills voids

SEALANTS

SEALANTS

- Sealant Nylog
- Suitable for mineral oil
- Viscoelastic refrig oil - prevents high pressure gas leakage

Part No.	Description	Unit	Qty
RT200R	SEALANT NYLOG SUITS CFC-HCFC 30ML	EA	1
RT201B	SEALANT GASKET TREAD HFC	EA	1

CLEANERS

COIL CLEANERS

VIPER BRITE (CARBONEX) 3.78L (DG)

Unit: EA Qty: 1

Part No. RT300G

- Viper Brite
- Concentrated - dilute 10:1
- Registered for use in all food processing areas

VIPER E+ EVAPORATOR COIL CLEANER 3.78L

Unit: EA Qty: 1

Part No. RT350G

- Viper evaporator
- Friendly to all materials
- Utilises slow release enzymes in a synthetic detergent base

REMOTE SPRAYER SUITS E EVAPORATOR COIL

Unit: EA Qty: 1

Part No. RT350S

- Compact, lightweight remote sprayer
- Suits RT350G coil cleaner

VIPER AEROSOL COIL DEGREASER 18OZ (DG)

Unit: EA Qty: 1

Part No. RT375A

- Injector produces rich penetrating foam
- Degreasing compound that does not contain hazardous ingredients

VIPER ECOSOLV (20/20) 3.75L

Unit: EA Qty: 1

Part No. RT380G

- Cuts baked on grease
- Dissolves adhesives
- Degreases oil surfaces

VIPER HD (DOUBLE DUTY)DETERGENT/DEGREASE

Unit: EA Qty: 1

Part No. RT390G

- Can be used instead of Acid or Alkaline Cleaners
- OK for all food processing areas

MIZU SPRAY FOAM DG 300G

Unit: EA Qty: 1

Part No. VMIZU

- Fast, safe and affordable way to clean your air conditioner
- Designed especially for cleaning the coils of your A/C unit

ICE MACHINE CLEANERS

- Viper ice machine cleaner
- Compatible with nickel plated evaporators
- Organic acid removes more scale faster than traditional cleaners

Part No.	Description	Unit	Qty
RT500G	VIPER ICE MACHINE CLNR 4L NICKEL SAFE DG	EA	1
RT500N	VIPER ICEMACHINE CLNR.5L NICKEL SAFE -DG	EA	1

LUBRICANT

LUBRICANTS

- Aerosol
- Displaces, penetrates, lubricants and protects
- High quality anti corrosion, anti moisture formula

Part No.	Description	Unit	Qty
VMX3-100	AEROSOL INOX LUBRICANT 100G DG	EA	1
VMX3-300	AEROSOL INOX LUBRICANT 300G DG	EA	1

MISCELLANEOUS

MISCELLANEOUS

- Biodegradable
- Compatible with all refrigerants and lubricants

Part No.	Description	Unit	Qty
VHC17001	THAWZONE 1OZ DG	EA	1
VHC17004	THAWZONE 4OZ DG	EA	1

PAN TREATMENT CLEAN AND CLEAR CONDENSATE

Unit: EA Qty: 1

Part No. RT800S

- Pan treatment
- Instantly removes slime and sludge
- Sprays on like water then reverts to a silicone gel upon contact

BLACK JACK ANTI SEIZE 8 OZ

Unit: EA Qty: 1

Part No. RT900B

- Multi-purpose, anti-seize compound and assembly lubricant
- Never hardens, maintains buttery texture

ACID TEST

Unit: EA Qty: 1

Part No. SHS16001

- Easy to use, no complicated charts
- Non toxic - non hazardous
- Detects presence and formation of acid in AC and refrig. systems

HEAT SHIELD GEL

Unit: EA Qty: 1

Part No. SHS31032

- Protects heat sensitive components
- Evaporates within 24 to 48 hours
- Prevents heat damage with no drip, no clean up - non toxic

RUST BUSTER

Unit: EA Qty: 1

Part No. SMO44

- Dissolves rust
- Telescoping pullout spout
- Loosens rust in seconds

ZOOM SPOUT

Unit: EA Qty: 1

Part No. SMO98

- All purpose lubricating oil
- Viscosity 92-99 140 deg F
- A paraffin base, non gumming, high quality lubricating oil

CLEANERS AND DISINFECTANT

- MRSA (HA&CA) & more
- Pandemic 2009 H1N1 Influenza A (Swine Flu), Influenza A2 Virus
- Salmonella Choleraesuis, Escherichia coli (E.coli), Hepatitis B&C
- Viruses, Norwalk Virus, Staphylococcus aureus

Part No.	Description	Unit	Qty
RT26801	SPRAY NINE CLEANER & DISINFECTANT 4LTR	EA	1
RT26832	SPRAY NINE CLEANER & DISINFECTANT 900ML	EA	1

SILICONE

SILICONE

PLUMBING SILICONE CLEAR 300GM

Unit: EA Qty: 1

Part No. VCNSLCLRRG

- Permanently flexible
- Water resistant
- UV and weather resistant
- One part, ready to use

SEALANT SILICONE IND WHITE

Unit: EA Qty: 1

Part No. VCNSLWITRG

- Colour: White
- Type: RG Modified

DEODORISERS

CLEN-AIR SPRAY

- Deodourising
- Fast acting deodarising product
- Eliminates odours
- Non toxic and environmentally friendly

Part No.	Description	Unit	Qty
CA1600D	DEODOURISING LIQ SPRAY 473ML UNSCENTED	EA	1
CA1700D	DEODOURISING LIQ SPRAY 473ML CITRUS	EA	1
CA1900D	DEODOURISING LIQ SPRAY 473ML CHERRY	EA	1

REFRIGERANT GAS CYLINDERS

REFRIGERANT GAS R134A 12KG DG

Unit: EA Qty: 1

Part No. REFR134A

- R134A 12kg - Wide use in household, commercial refrig and auto A/C
- Can be used as a retrofit in some R12 & R22 applications without an oil change

REFRIGERANT GAS R404A 10KG DG

Unit: EA Qty: 1

Part No. REFR404A

- R404A 10kg - for commercial low and medium temperature applications
- Requires charging in the liquid phase

CYLINDER 10KG FOR REFRIGERANT GAS

Unit: EA Qty: 1

Part No. REFCYL10

- Gas cylinder rated for refrigerant gas
- Dual valve, heavy duty

D SIZED CYLINDER DG

Unit: EA Qty: 1

Part No. REFNITROD

- Nitrogen 10 kg - used for pressure testing and purging pipe lines
- It is an inert gas, odourless, colourless and non-flammable

REFRIGERANT GAS R32 8KG DG

Unit: EA Qty: 1

Part No. REFR32

- R32 8kg - low GP alternative to 410A used in new A/C systems
- Can be charged from either liquid or vapour phase

REFRIGERANT GAS R410A 10KG DG

Unit: EA Qty: 1

Part No. REFR410A

- R410A 10 kg - used in domestic and light A/C equipment
- Suits polyester oil

REFRIGERANT GAS R134A 12KG DG

Unit: EA Qty: 1

Part No. REFR134AK

- Wide use in household, commercial refrig. and auto A/C
- Can be used as a retrofit in some R12 & R22 applications without an oil change
- Gas cylinder rated for refrigerant gas
- Dual valve
- Heavy duty

REFRIGERANT GAS+1ST BOTTLE R404A 10KG DG

Unit: EA Qty: 1

Part No. REFR404AK

- For commercial low and medium temperature applications
- Requires charging in the liquid phase
- Gas cylinder rated for refrigerant gas
- Dual valve
- Heavy duty

REFRIGERANT GAS+1ST BOTTLE R410A 10KG DG

Unit: EA Qty: 1

Part No. REFR410AK

- Used in domestic and light A/C equipment
- Suits polyolester oil
- Gas cylinder rated for refrigerant gas
- Dual valve
- Heavy duty

APPLIANCE PARTS

Refrigeration Accessories and Spares	101
Bullet Valves	101
Relays	101
Miscellaneous	103

REFRIGERATION ACCESSORIES AND SPARES

REFRIGERATION ACCESSORIES AND SPARES

- Delay range adjustable 6 sec to 8 min
- Once power on time delay initiates
- On completion of selected day period, load is energised

Part No.	Description	Unit	Qty
STD69	TIMER DELAY ON MAKE	EA	1
STD73	TIMER DELAY ON BREAK	EA	1

CONDENSATE DRAIN - 4.1LTR/DAY

Unit: EA Qty: 1

Part No. SD70220

- Condensate drain pan 1.4l
- 177ml/h
- 4.1l per day
- 311 x 121 x 76mm

BULLET VALVES

BULLET VALVES

- Patented valve gasket applications
- Precision piercing needle engineered for concentricity

Part No.	Description	Unit	Qty
SBPV21	BPV-21 BULLET VALVE 1/2 - 5/8	EA	1
SBPV31	BPV-31 BULLET VALVE 1/4 - 5/16 - 3/8	EA	1

RELAYS

RELAY OVERLOAD

- Prevents low voltage starting systems
- 3 in 1 relay, overload and start capacitor
- Replaces relay, overload - provides boost for hard start systems

Part No.	Description	Unit	Qty
SRCO420	RCO420 RELAY OVERLOAD 1/4-1/3HP	EA	1
SRCO620	RCO620 RELAY OVERLOAD 1/6-1/5HP	EA	1
SRCO820	RCO820 RELAY OVERLOAD 1/12-1/8HP	EA	1

RELAY UNIVERSAL POTENTIAL

Unit: EA Qty: 1

Part No. SSUPR

- Use on any 1 phase motor or up to 5hp
- 30 amp - 110-270 VAC single phase
- Wire to wire replacement for virtually all potential relays

RELAY RSC20

Unit: EA Qty: 1

Part No. SURSC20

- Prevents low voltage starting systems
- 1/20 - 1/2HP rating
- Provides a boost for hard start and unbalanced systems

RELAY ICG220

Unit: EA Qty: 1

Part No. SICG220

- Replaces all current type relays
- One size for all comps 1/12 - 1/2hp
- Fastest cool down time of any solid state relays

COMMERICAL RELAYS

- Easy 2 wire installation
- 1/2 - 10hp
- Positive temperature coefficient technology (PTC)
- Hard start kit

Part No.	Description	Unit	Qty
SSPP5	HARD START KIT SPP5 POW-R-PAK	EA	1
SSPP6	HARD START KIT SPP6 SUPER BOOST	EA	1

RELAYS

- RO series features snap on bracket
- Quick connect mounting
- Locked rotor protection eliminates start winding overheating

Part No.	Description	Unit	Qty
SRO22	RELAY RO22 COMB 1/2HP	EA	1
SRO42	RELAY RO42 COMB 1/4-1/3HP	EA	1
SRO62	RELAY RO62 COMB 1/6-1/5HP	EA	1
SRO82	RELAY RO82 COMB 1/12-1/8HP	EA	1

MISCELLANEOUS

MISCELLANEOUS

- Double ball joint head adjustment
- Extendable and retractable design
- 1.25 inch round glass mirror
- Inspection mirror

Part No.	Description	Unit	Qty
SIM1	INSPECTION MIRROR 3.5CM DIA. X 70CM	EA	1
SIM3	INSPECTION MIRROR 6CM DIA. X 37CM	EA	1

PLIERS TUBE PIERCING

Unit: EA Qty: 1

Part No. SSF4311

- Suits tubing sizes ranging from 1/4 - 7/8 inches OD
- Self-sharpening, piercing tip
- Fast refrigeration recovery with pliers that clamp on and pierce

ACCESS FITTING

Unit: EA Qty: 1

Part No. SSF8404

- Suits 1/4 inch tube
- Braze only with SF1515 core
- Supplied with copper tail

TOOLS

Infared Thermometers	105
Digital Thermometers	105
A/C System Analysers	106
Tube Cutters	106
Tube Benders	108
Flaring Expanding and Swaging Tools	109
Tube Working Accessories	109
Reamers	110
Needle Nose Pliers	110
Nipper Pliers	110
Ratchet Wrenches	110
Torque Wrenches	111
Charging and Recovery	111
Hoses Couplers and Connectors	112
Manifolds	114
Service Accessories	115
Vacuum Pumps	117
Leak Detection	119
Wireless Gauges	119
Gas Torches	120
Tool Bags	121

Mastercool® Inc.
"World Class Quality"

Mastercool is a family owned and operated company that has been supplying professional air conditioning, service tools and equipment for over 35 years.

As one of the fastest growing companies in this market, Mastercool's name is synonymous with "World Class Quality" and uniquely innovative design. With their never-ending focus on new technology, Mastercool has been awarded many patents worldwide.

In addition to Mastercool's headquarters located in the United States, their Belgium and Brazil offices also feature a full inventory and staff.

This has enabled them to set up distribution to over 60 countries demonstrating that they are truly a multi-national company.

INFARED THERMOMETERS

INFARED THERMOMETERS

MULTI LASER INFRARED THERMOMETER Unit: EA Qty: 1

Part No. MC52224-D

- Includes eight laser points for accuracy
- Backlit LCD colour display for ease of reading
- Temperature range: -60 to 760 degrees Celsius
- Includes: AAA batteries, manual and carry case

DIGITAL THERMOMETERS

MASTERCOOL

HANDHELD WATERPROOF DIGITAL THERMOMETER Unit: EA Qty: 1

Part No. MC52229

- Wide measurement range and data hold function for ease of use
- Temperature range: -50 to 300 degrees Celsius
- Material: Stainless steel
- Includes: thermometer and foldaway stand

DIGITAL DIFFERENTIAL THERMOMETER KIT Unit: EA Qty: 1

Part No. MC52228

- Provides instant measurements for two points
- Thermocouple input, type K
- Temperature range: -50 to 1300 degrees Celsius
- Includes: Thermometer and two thermocouples

A/C SYSTEM ANALYSERS

MASTERCOOL

SYSTEM ANALYZER KIT WITH ROUND VANE Unit: EA Qty: 1

Part No. MC52270

- Backlit LCD display with a low battery indicator for ease of use
- Thermocouple input, type K
- Operating temperature: 0 to 50 degrees Celsius
- Includes: Analyser, batteries, carry case

TUBE CUTTERS

HEAVY DUTY TUBE CUTTERS

- Light weight and durable for a long service life
- Flare cut-off grooves and rollers to salvage old tubing
- Material: Carbide steel
- Suitable for cutting copper, aluminium, brass and thin wall steel

Part No.	Description	Unit	Qty
MC70033	TUBE CUTTER HEAVY DUTY 1/8 TO 1-1/8 OD	EA	1
MC70035	TUBE CUTTER HEAVY DUTY 1/4 TO 1-5/8 OD	EA	1
MC70037	TUBE CUTTER SLIDING BAR 1/4 TO 2 5/8 OD	EA	1

MIDI TUBE CUTTERS

- Reduced friction design decreases resistance for ease of use
- Incorporate ball bearings into the cutter wheel to reduce fatigue
- Detachable swivel deburring tool for smooth surfaces
- Includes: Cutter and 8 ball bearings

Part No.	Description	Unit	Qty
MC72029	TUBE CUTTER RED FRICTION 1/8 TO 1-1/8 OD	EA	1
MC72035	TUBE CUTTER RED FRICTION 1/4TO1-1/2IN OD	EA	1

CAPILLARY TUBE CUTTERS

TUBE CUTTER CAPILLARY Unit: EA Qty: 1

Part No. MC70025

- Cuts without collapsing the tubing
- Suitable for all capillary tubes

MINI TUBE CUTTERS

- Tube Cutter
- Light weight yet durable
- Carbide steel cutting wheel
- Flare cut-off feature

Part No.	Description	Unit	Qty
MC70027	MINI TUBE CUTTERS 1/8 TO 5/8 OD	EA	1
MC70029	MINI TUBE CUTTERS 3/8 TO 1 1/8 OD	EA	1

RATCHET TUBE CUTTERS

TUBE CUTTER RATCHET STYLE 1/4 TO 7/8 OD Unit: EA Qty: 1

Part No. MC70030

- Ratchet action allows cutting the entire tube diameter with ease
- Suitable for tight spaces without swing room

SPARE PARTS

REPLACEMENT CUTTING WHEEL 72029 Unit: EA Qty: 1

Part No. MC72030

- Reduced friction design decreases resistance for ease of use
- Incorporate ball bearings into the cutter wheel to reduce fatigue
- Detachable swivel deburring tool for smooth surfaces
- Includes: Cutter and 8 ball bearings

REPLACEMENT CUTTING WHEEL 70027 Unit: EA Qty: 1

Part No. MC70028

- Replacement part for Mastercool
- Suitable for the MC70027 mini tube cutter

REPLACEMENT CUTTING WHEEL 70029/30/33/35 Unit: EA Qty: 1

Part No. MC70034

- Replacement part for Mastercool
- Suitable for the midi, ratchet style and heavy duty tube cutters

REPLACEMENT CUTTING WHEEL 72035 Unit: EA Qty: 1

Part No. MC72034

- Reduced friction design decreases resistance for ease of use
- Incorporate ball bearings into the cutter wheel to reduce fatigue
- Detachable swivel deburring tool for smooth surfaces
- Includes: Cutter and 8 ball bearings

TUBE BENDERS

LEVER STYLE TUBE BENDERS

- Lever type tube bender
- Open side design slips over tube at any point
- Makes smooth short radius bends up to 180¬ with minimum effort
- Calibrated to show angle of bend.
- 8 segment crimp

Part No.	Description	Unit	Qty
MC70063	TUBE BENDER LEVER 3/8IN OD	EA	1
MC70064	TUBE BENDER LEVER 1/2IN OD	EA	1
MC70065	TUBE BENDER LEVER 5/8IN OD	EA	1
MC70066	TUBE BENDER LEVER 3/4IN OD	EA	1
MC70067	TUBE BENDER LEVER 7/8IN OD	EA	1

TUBE BENDER RATCHET 3/8 1/2 5/8 3/4 7/8 Unit: EA Qty: 1

Part No. MC70070

- Hand-operated ratchet design easily bends tubes
- Soft OD Bends: 3/8, 1/2, 5/8, 3/4 and 7/8inches
- Includes: Tube cutter, inner-outer reamer and a carry case

TUBE BENDER LEVER 4IN1 180DEG Unit: EA Qty: 1

Part No. MC70069-A

- Multi-purpose tube bender for a variety of size tubing
- Angle: 180 degrees
- OD size tubing: 3/16, 1/4, 5/16, 3/8inch

SPRING STYLE TUBE BENDERS

- The spring is flared on one end for quick tube insertion
- Material: Nickel-plated steel
- Suitable for bending soft copper or aluminium tubing
- Time-saving and easy to use

Part No.	Description	Unit	Qty
MC70071	TUBE BENDER SPRING STYLE 1/4INCH	EA	1
MC70072	TUBE BENDER SPRING STYLE 5/16INCH	EA	1
MC70073	TUBE BENDER SPRING STYLE 3/8INCH	EA	1
MC70074	TUBE BENDER SPRING STYLE 1/2INCH	EA	1
MC70075	TUBE BENDER SPRING STYLE 5/8INCH	EA	1
MC70077	TUBE BENDER SPRING STYLE 3/4INCH	EA	1
MC70076	TUBE BENDER SPRING 1/4 5/16 3/8 1/2 5/8	EA	1

FLARING EXPANDING AND SWAGING TOOLS

FLARING EXPANDING AND SWAGING KITS

FLARE SWAGE KIT 45DEG 275 1/8 TO 3/4 Unit: EA Qty: 1

Part No. MC70053

- Forged steel slip-on yoke for durability and longevity of life
- Angle: 45 degrees
- Flaring bars are chrome-plated, hardened steel for reliability
- Includes: 2 Flaring bars, 5 flaring adapters and carry case

TUBE EXPANDING KIT 7 HEAD HYDRAULIC Unit: EA Qty: 1

Part No. MC71600-A

- Expands and fabricates tubing using hydraulic power
- Suitable for copper, aluminium and soft steel tubes
- Includes: Expander heads, Hydra-swage, adapter and reamer

FLARE EXPAND KIT 7HEAD HYDRAULIC Unit: EA Qty: 1

Part No. MC71675

- Allows the user to make OEM flares with a pump of the handle
- Includes: Heads, Hydra-swage, adapter, reamer, flaring accessory
- All packaged in a blow molded carry case for transportability

FLARING EXPANDING AND SWAGING TOOLS

- Eccentric Flaring Tool (806) w/6 dims.
- Aircraft grade aluminium
- Automatic torque release

Part No.	Description	Unit	Qty
MC70057	ALUM ECCENTRIC FLARE TOOL 1/4 TO 3/4	EA	1
MC70059	ALUM ECCENTRIC FLARE TOOL 1/4 to 7/8	EA	1

TUBE WORKING ACCESSORIES

ACCESSORIES

VALVE CORE REMOVER INSTALLER ACCESS PORT Unit: EA Qty: 1

Part No. MC91496

- Eliminates the restriction for evacuation and recharge
- Provides full flow of refrigerant and vacuum during recovery
- Decreases service time
- Includes an access port

VALVE CORE REMOVER INSTALLER KIT Unit: EA Qty: 1

Part No. MC91498

- Offers a UNF and flare fitting for all refrigerant applications
- Packaged in a blow molded carry case for transportability
- Includes a safety nut allowing the technician ease of access
- Suitable for high pressure refrigerants

REAMERS

INNER-OUTER REAMER
Unit: EA Qty: 1
Part No. MC70085
• Inner/Outer Reamer

PENCIL REAMER - METAL GRIP
Unit: EA Qty: 1
Part No. MC71685
• Designed to remove inner burrs easily
• Full metal grip for product longevity
• Includes: A spare blade for longevity of use
• Blade material: Tungsten

SPARE BLADES SUITS PENCIL REAMER 71685
Unit: EA Qty: 1
Part No. MC71686-2
• Replacement Blades suiting 71685 Reamer

NEEDLE NOSE PLIERS

NEEDLE NOSE PLIERS

PLIERS TUBE PIERCING 1/4INCH
Unit: EA Qty: 1
Part No. MC70088
• Durable and reliable pliers with metal handle
• Suitable for 1/4inch tubing
• Replacement tip available for renewed sharpness

NIPPER PLIERS

NIPPER PLIERS

PLIERS PINCH-OFF LOCK-ON
Unit: EA Qty: 1
Part No. MC70083
• Durable and reliable pliers with metal handle
• Designed for refrigeration industry usage
• Pinches off and locks on copper tubing

RATCHET WRENCHES

RATCHET SETS

• Reversible ratchet capability
• Material: steel forged
• Suitable for 9/16 and 1/2inch hex or 1/4 and 3/16inch square

Part No.	Description	Unit	Qty
MC70081	RATCHET WRENCH 9/16-1/2 HEX 1/4-3/16 SQ	EA	1
MC70082	RATCHET WRENCH 1/4 3/8 3/165/16 SQ	EA	1

TORQUE WRENCHES

TORQUE WRENCH SETS

TORQUE WRENCH KIT Unit: EA Qty: 1

Part No. MC70078

- Accurate tightness of fittings for R410A in particular
- Suitable for a variety of jobs
- Packaged in a blow molded case for transportability
- Sizes included: 17, 22, 24, 26, 27 and 29mm

CHARGING AND RECOVERY

CHARGING SCALES AND ACCESSORIES

- Ability to program desired quantities for measurement
- Alarm sounds off completion of refrigerant supply
- Operating temperature: 0 to 49 degrees Celsius
- Tank capacity programming ability for ease of use

Part No.	Description	Unit	Qty
MC98210-A	REFRIGERANT SCALE ACCU-CHARGE II 110KG	EA	1
MC98210-A-PB	CARRY CASE FOR 98210-A	EA	1

WIRELESS REFRIG SCALE W/ SOL VALVE 110KG Unit: EA Qty: 1

Part No. MC98315

- Wireless design prevents wire tangles
- High accuracy weight sensor for reliable results
- Keypad enables synchronization and zeroing
- Has an automatic shut-off for power saving

RECOVERY EQUIPMENT

TWIN TURBO RECOVERY UNIT R32 COMPATIBLE Unit: EA Qty: 1

Part No. MC69300-220

- High pressure switch for user safety
- Injection molded, high density case for durability
- Largest volume recovery rate designed for field service
- Suitable for all refrigerants including R410A

HVAC COMBUSTIBLE GASES RECOVERY UNIT Unit: EA Qty: 1

Part No. MC69395-220

- High pressure switch for user safety
- Injection molded, high density case for durability
- Largest volume recovery rate designed for field service
- Suitable for all refrigerants including R410A

TWIN MINI COMBUSTIBLE GAS RECOVERY UNIT Unit: EA Qty: 1

Part No. MC69400-220

- Twin piston compressor enables the unit to work in all applications
- Designed for CFC, HCFC and HFC refrigerants
- Rated: 220V, 50 or 60Hz
- Suitable for small spaces and difficult locations

REFRIGERANT IDENTIFIERS

REFFRIGERANT IDENTIFIER ULTIMA ID PRO 2

Unit: EA Qty: 1

Part No. MC69HVAC-PRO2

- Enables fast and accurate testing of refrigerants in case of leakage
- Refrigerant composition breakdown for easier identification
- Suitable for pre-screening refrigerant prior to reclamation
- User friendly with built in printer and soft keys

HOSES COUPLERS AND CONNECTORS

STD AND HIGH PRESS HOSES W/ STANDARD FITTINGS

- Includes a manual shut-off valve fitting
- Knurled brass nuts for ease of finger tightening the connection
- Secured fit and maximum durability due to 8 crimped segment dies
- Grade 5 hoses for secured containment of refrigerant

Part No.	Description	Unit	Qty
MC40336	STD HIGH PRESSURE HOSES 90CM 1/4SAE	EA	1
MC40360	STD HIGH PRESSURE HOSES 150CM 1/4SAE	EA	1
MC40372	STD HIGH PRESSURE HOSES 180CM 1/4SAE	EA	1
MC40396	STD HIGH PRESSURE HOSES 244CM 1/4SAE	EA	1
MC47336	NYLON BARRIER HP HOSES 90CM 1/4SAE	EA	1
MC47360	NYLON BARRIER HP HOSES 150CM 1/4SAE	EA	1
MC47372	NYLON BARRIER HP HOSES 180CM 1/4SAE	EA	1

MANUAL SHUTOFF BALL VALVES

- Used to contain refrigerant with charging hoses
- Prevents unneccessary venting of refrigerant
- Suitable part for the digital manifold gauge sets
- Used for recycling and flushing equipment

Part No.	Description	Unit	Qty
MC90430	MANUAL SHUT OFF BALL VALVE 1/4 X 1/4	EA	1
MC90433	MANUAL SHUT OFF BALL VALVE 1/4 X 5/16	EA	1

REPLACEMENT BLACK HOSE SAE

- Nylon barrier hose with increased working pressure for reliability
- Includes a manual shut-off valve fitting
- Knurled brass nuts for ease of finger tightening the connection
- Secured fit and maximum durability due to 8 crimped segment dies

Part No.	Description	Unit	Qty
MC94160	CHARGING HOSE FULL FLOW 3/8 150 CM BLACK	EA	1
MC94172	CHARGING HOSE FULL FLOW 3/8 180 CM BLACK	EA	1

R410A HOSES

- Nylon barrier hose with increased working pressure for reliability
- Knurled brass nuts for ease of finger tightening the connection
- Secured fit and maximum durability due to 8 crimped segment dies

Part No.	Description	Unit	Qty
MC49336-J	NYLON BARRIER HOSES R410A 90CM 5/16X5/16	EA	1
MC49336-JT	NYLON BARRIER HOSES R410A 90CM 1/4X5/16	EA	1
MC49360-J	NYLON BARRIER HOSES R410 150CM 5/16X5/16	EA	1
MC49360-JT	NYLON BARRIER HOSES R410A 150CM 1/4X5/16	EA	1

PRESSURE CONTROL HOSES

- Eliminates capillary failure due to work hardening from vibration
- Used to replace regular copper capillary tubing
- Operating temperature: -29 to 93 degrees Celsius
- Hex style fitting with 1/4inch SAE thread connection

Part No.	Description	Unit	Qty
MC47124-ST	CONTROL HOSE CAP 1/4F X 90DEG 12INCH	EA	1
MC47184-ST	CONTROL HOSE CAP 1/4F X 90DEG 18INCH	EA	1
MC47244-ST	CONTROL HOSE CAP 1/4F X 90DEG 24INCH	EA	1
MC47364-ST	CONTROL HOSE CAP 1/4F X 90DEG 36INCH	EA	1
MC47484-ST	CONTROL HOSE CAP 1/4F X 90DEG 48INCH	EA	1

45 DEG MANUAL SHUT OFF VALVE SETS

STD HOSES 150CM 1/4SAE WITH B-VALVE

Unit: EA Qty: 1

Part No. MC90262-60

- Includes a manual shut-off valve fitting
- Knurled brass nuts for ease of finger tightening the connection
- Secured fit and maximum durability due to 8 crimped segment dies
- Grade 5 hoses for secured containment of refrigerant

FLEX ADAPTERS

ADAPTERS FLEX CONVERT 1/4SAE TO 5/15SAE

Unit: EA Qty: 1

Part No. MC90410

- Connection: Flared male SAE to flared female SAE
- Converts SAE hose into SAE swivel connection

STRAIGHT ADAPTERS

ADAPTERS BRASS CONVERT 1/4SAE TO 5/16SAE

Unit: EA Qty: 1

Part No. MC90413

- Converts 1/4 to 5/16 inch SAE
- Swivel female nut with a depressor
- Adapters for manifold sets, testing kits and gauge sets

MANUAL COUPLERS

- Adjust to R134A service ports with ease
- Patented, spring loaded depressor does not damage service valves
- High side manual
- All metal construction for added durability

Part No.	Description	Unit	Qty
MC82834-E	COUPLER HIGH SIDE R134A 1/4 FL	EA	1
MC82934-E	COUPLER LOW SIDE R134A 1/4 FL	EA	1

CONTROL VALVE COUPLERS

- Connection: Flared male to flared female
- Material: Brass
- Eliminates fluid from spraying during connections
- Suitable for charged systems

Part No.	Description	Unit	Qty
MC90328	CONTROL VALVE REFRIG 1/4FFL X 1/4MFL	EA	1
MC90328-5/16	CONTROL VALVE REFRIG 5/16FFL X 5/16MFL	EA	1

MANIFOLDS

DIGITIAL MANIFOLDS

Part No.	Description	Unit	Qty
MC99903	4-WAY DIGITAL MANIFOLD ONLY	EA	1
MC99903-02	4-WAY DIGITAL MANIFOLD W/THERMOCOUPLES	EA	1
MC99963-EU	4-WAY DIGITAL MANIFOLD GAUGE SET	EA	1
MC99103-A-2	2-WAY DIGITAL MANIFOLD W/THERMOCOUPLES	EA	1

2-WAY MANIFOLDS

Part No.	Description	Unit	Qty
MC93103-EB1	2-WAY MANIFOLD 80MM R410A-R32 REFRIG	EA	1
MC93103-MB1	2-WAY MANIFOLD 80MM R22 R404A R134A	EA	1
MC55661G	2-WAY MANIFOLD CO2 BRAIDED HOSES 3X150CM	EA	1
MC93661-EB1-433	2-WAY MANIFOLD R410A WITH 3X150CM HOSES	EA	1
MC93661-MRB1	2 V M/FOLD R22 3 X 150CM HOSES	EA	1

4-WAY MANIFOLD

- 4W Manifold 80mm - cl.1.0 - R410A-407C-22
- Bull 3/8 inch bore
- Stainless steel ball valve
- 1/4 turn valves
- Chrome plated

Part No.	Description	Unit	Qty
MC96203-EB1	4-WAY MANIFOLD 80MM R410A R407C R22	EA	1
MC96203-MB1	4-WAY MANIFOLD 80MM R134A R404A R407C	EA	1
MC96261-EB1-433	4 V M/FOLD R410A 3 X 150CM HOSES + VAC	EA	1
MC96261-MRB1	4 V M/FOLD R22 3 X 150CM HOSES + VAC	EA	1

GAUGE PROTECTOR SET 80MM RED BLUE Unit: EA Qty: 1

Part No. MC91553-EE

- Designed to cushion shock from rough handling
- Unique ribbing deadens bumps and deflects shocks
- Includes both red and blue coloured protectors

REPLACEMENT GAUGES R134A, R22, R12, R404A

- Designed with anti-flutter technology to reduce needle fluctuation
- High side gauge class
- Suitable for R22, R404A, R407F, R134A refrigerants
- Increased reading accuracy for ease of use and reliability

Part No.	Description	Unit	Qty
MCMRBH1	GAUGE HP 80MM R22 R134A R404A R407F	EA	1
MCMRBL1	GAUGE LP 80MM R22 R134A R404A R407F	EA	1

REPLACEMENT GAUGES R410A, R507, R404A, R22

- Designed with anti-flutter technology to reduce needle fluctuation
- High side gauge class
- Suitable for R22, R407C, R32, R410A refrigerants
- Increased reading accuracy for ease of use and reliability

Part No.	Description	Unit	Qty
MCEBH1	GAUGE HP 80MM R410A R32	EA	1
MCEBL1	GAUGE LP 80MM R410A R32	EA	1

SERVICE ACCESSORIES

OILS AND ACCESSORIES

VACUUM PUMP OIL 946ML 6PK Unit: EA Qty: 1

Part No. MC90032-6

- Suitable for Mastercool vacuum pumps
- Bottle size: 32oz (946ml)

CONDENSOR FIN COMB Unit: EA Qty: 1

Part No. MC90925

- Cleans and straightens condensor or evaporator fins
- Six sided head for an accurate clean
- Suitable for 8, 9, 10, 12, 14 and 15 fins per inch application

NITROGEN PRESSURE REGULATORS

NITROGEN PRESSURE REGULATORS

Unit: EA Qty: 1

Part No. MC53004

- Single stage regulator used to test systems for leaks
- Includes a T-handle for ease of pressure adjustment
- High pressure gauge: 4400psig
- Low pressure gauge: 1000psig

MASTERCOOL HAND TOOL BAG

Unit: EA Qty: 1

Part No. MCHVAC-BAG

- Mastercool branded tool bag
- Sturdy synthetic canvas construction
- Numerous pockets

CLEANING

- Removes sludge and debris from air conditioning components
- Product is solvent based
- Non corrosive and non flammable
- Can be used to flush and air conditioning system
- Does not damage o-rings

Part No.	Description	Unit	Qty
MC91049-128	AIRCON FLUSH SOLVENT 3.8LT SINGLE	EA	1
MC91049-128-4	AIRCON FLUSH SOLVENT 3.8LT 4PACK	EA	1

FLUSH

AIRCON SYSTEM FLUSH KIT

Unit: EA Qty: 1

Part No. MC91046-A

- Designed for use with lightweight flushing agents and pressurised air
- Quickly and easily removes refrigerant debris
- Suitable for using to retrofit or replace a compressor
- Includes: flush gun, hose, canister and adapter

DIGITAL VACUUM GAUGES

- Sensor type: Thermocouple
- Operating temperature: 0 to 45 degrees Celsius
- Response time: 250mSec
- Designed for professional technicians with self-calibration

Part No.	Description	Unit	Qty
MC98061	DIGITAL VACUUM GAUGE	EA	1
MC98061-SEN	REPLACEMENT SENSOR 98061	EA	1

VACUUM PUMPS

VACUUM PUMPS

- Reinforced base provides extreme shock resistance

Part No.	Description	Unit	Qty
MC90058A	MASTERCOOL CORDLESS VACUUM PUMP 1.5CFM	EA	1
MC90058SL	ADAPTER SLEEVE TO ALLOW FOR USE WITH MAK	EA	1
MC90063-2V-220-B	TWO STAGE VAC PUMP 58L/MIN	EA	1
MC90066-220-BSF	TWO STAGE VAC PUMP SPARK FREE 142L/MIN	EA	1
MC90066-2V-220-B	TWO STAGE VAC PUMP 142L/MIN	EA	1
MC90067-220	TWO STAGE VAC PUMP 178L/MIN	EA	1
MC90068-2V-220-B	TWO STAGE VAC PUMP 189L/MIN	EA	1
MC90612-2V-220-B	TWO STAGE VAC PUMP 283L/MIN	EA	1

ASPEN R32 VACUUM PUMPS

- Spark-proof design suits R32
- Ergonomic handle and shock-proof base

Part No.	Description	Unit	Qty
PRDV50ER32	2 STAGE R32 VACUUM PUMP 50 LITRE	EA	1
PRDV100ER32	2 STAGE R32 VACUUM PUMP 100 LITRE	EA	1

Refrigerant Monitor & Leak Detection

Bacharach offers a range of portable leak detectors capable of finding leaks of any common refrigerants. Refrigerant Monitor & Leak Detection available with spare parts stocked. ***System Control Engineering*** is authorised to **calibrate** and **repair** your **Bacharach** unit. LOCAL quick turnaround service with Loan units available.

PGM-IR

Our Most Powerful, Most Accurate Portable Refrigerant Detector

- The most powerful, accurate portable refrigerant detector
- 1 ppm Minimum Detectable Level
- Detects leaks that other instruments cant

H-10 Pro

Ultra- sensitive universal refrigerant leak detector

- Detects all CFC, HFC and HCFC refrigerants
- Dual power options
- Visual and audible indicators

H25-IR PRO

An industrial-grade gas leak analyzer

- Standard model detects all CFC, HFC and HCFC refrigerants as low as 0.03 oz/ur (0.85 g/yr)
- Models available for R-290 (propane, R-744 (CO^2), R-600a (isobutane) and SF_6
- ALO™ technology eliminated the need for a calibrated reference leak source

MVR-300™

VRF Refrigerant Detector for Occupied Spaces

- Fits in standard electrical boxes for easy installation
- Low profile / flush mount for aesthetically non-intrusive appearance
- Two relays & Mobus Communications for notifying building managment & initiate counter measures

Multi-Zone

High Precision Refrigerant Leak Detection

- Detects leaks that other instruments can't
- Low detection limits (as low as 1 ppm)
- Monitors up to 16 remote areas, expandable to 48 points
- Proprietary Infrared (NDIR) sensing technology

MGS-400

Gas Detection Solution for Safety Compliance

- Mobile app interface for intuitive commissioning and maintenance
- Plug-and-play pre-calibrated sensor modules
- On-board audible and visual alarms for refrigerant safety compliance with ASHRAE 15 and EN 378

Single-Zone

High Precision Refrigerant Leak Detector

- Detects leaks that other instruments can't
- Low detection capability (as low as 1 ppm)
- Proprietary infrared (NDIR) sensing technology
- Detect and measure all CFCC, HFC, HCFC, ammonia and carbon dioxide leaks

MGS-550

Dual Gas Detector for Safety Compliance

- Flexible two-sensor capability, local and/or remote
- One user-interface platform for all sensor types
- Two analog outputs and Modbus RTU interface

MGS-250

Infrared Refrigerant Gas Detector

- Long-life, proprietary infrared sensor
- Detects CFCs, HFCs, HCFCs and new HFO refrigerants
- No cross interference to other gases, humidity or temperature

Tru Pointe^R

A low-cost refrigerant leak detector for all CFCs, HFCs & HCFCs

- Detects a broad range of refrigerants
- Flexible probe (14 in.)
- Audible and incremental LED indicators

Tru Pointe^R 1100

An ultrasonic inspection system

- Detects leaks of any gas type
- Noise-cancelling headphones and optional SoundBlaster
- Visual and audible indicators

Tru Pointe^R 2100

A top-of-the-line ultrasonic inspection system

- Detects leaks of any gas type
- Noise-cancelling headphones and optional SoundBlaster
- Visual and audible indicators

LEAK DETECTION

ELECTRONIC LEAK DETECTION

PGM-IR PORTABLE GAS MONITOR HALOGEN

Unit: EA Qty: 1

Part No. BA30155696

- The Bacharach PGM-IR Halogen model is a portable refrigerant gas monitor designed to detect and measure CFC, HCFC, HFC and halogen gases
- Eliminates false alarms with use of non-dispersive IR source and sample draw system
- Automatically logs up to 200 gas readings for future analysis
- Battery powered, providing a minimum of 8 hours of operation
- Measures up to 10,000 ppm with a sensitivity of 1 ppm

PGM-IR PORTABLE GAS MONITOR CO2

Unit: EA Qty: 1

Part No. BA30158001

- The Bacharach PGM-IR CO2 model is a portable gas monitor designed to determine the presence and level of CO2 gas
- Eliminates false alarms with use of non-dispersive IR source and sample draw system
- Automatically logs up to 200 gas readings for future analysis
- Battery powered, providing a minimum of 8 hours of operation
- CO2 detection range of 20 to 100,000 ppm, relative to ambient

WIRELESS GAUGES

SAUERMANN

SI-RV3 WIRELESS VACUUM GAUGE

Unit: EA Qty: 1

Part No. VPMSI-RV3

- Dual valve system enabling simultaneous vacuum measurement and evacuation of refrigerant
- Long range Bluetooth 4.2 low energy
- Built-in Schrader cores for easy refrigerant charging
- Range from 5 to 25,000 microns
- Export reports in PDF, CSV and XML formats

SI-RM3 WIRELESS REFRIGERANT GAUGE SET

Unit: EA Qty: 1

Part No. VPMSI-RM3

- Smart wireless manifold probes for pressure and temperature measurements in a refrigeration system
- Dual valve system for simultaneous measurement and charge/discharge of refrigerant
- Built-in Schrader cores for easy refrigerant charging
- 124 refrigerant gases with favourite list. Range up to 60 bar (870 psi)
- Export reports in PDF, CSV and XML formats

Black Diamond

TUBE TOOLS - TUBE CUTTERS - HEAVY DUTY TUBE CUTTERS

BLACK DIAMOND SMALL TUBE CUTTER 1/8 - 7/8 + SPARE WL

Part No. BD11116

- Great for working conditions where space is limited
- Comes with spare cutter wheel

BLACK DIAMOND 1/8 - 11/4 MEDIUM TUBE CUTTER

Part No. BD11288

- Worlds first ever spring loaded cutter
- Easy to grip and smooth to turn

BLACK DIAMOND 1/8 - 15/8 MEDIUM TUBE CUTTER

Part No. BD11382

- Titanium coated cutter wheels
- Comes with spare cutter wheel

GAS TORCHES

GAS TORCHES

- Pro Torch Vulcane - 22mm
- High efficiency
- Dual mode ignition trigger

Part No.	Description	Unit	Qty
PRPTV472	PRO TORCH VULCANE 22MM	EA	1
PRPTV4722	PRO TORCH BURNER TUBE 22MM	EA	1
PRPTV4728	PRO TORCH BURNER TUBE 28MM	EA	1
PRPTV4735	PRO TORCH BURNER TUBE 35MM	EA	1

HARRIS MAPP/PRO GAS REFILL 100GM (DG)

Unit: EA Qty: 1

Part No. VHMAPPRO

- MAPP gas refill

CYLINDER OXY SUITS MAX-PRO SET (DG)

Unit: EA Qty: 1

Part No. VHOXY

- Disposable oxygen cylinder - 1 Litre 11,000 kPa
- Non-refillable cylinders often save time
- Does not require periodic recertification

TOOL BAGS

TOOL BAGS

HVAC TECH-PAC MEDIUM SIZE BACKPACK

Unit: EA Qty: 1

Part No. PRVETOTECHPACME

- HVAC TECH-PAC medium size backpack

HVAC TEST METER TOOL BAG TALL

Unit: EA Qty: 1

Part No. PRVETOMB2

- Keeps tools vertical, easy to find and access
- Ultimate protection
- Comfortable handle/shoulder strap

HVAC TECH MEDIUM TOOL BAG

Unit: EA Qty: 1

Part No. PRVETOTECHMCT

- HVAC Tech medium tool bag
- Offers maximum tool storage capacity in a compact, durable MC platform
- Durable waterproof base

HVAC TECH LGE TOOL BAG

Unit: EA Qty: 1

Part No. PRVETOTECHLC

- HVAC Tech large tool bag
- Weatherproof, medium sized service technician's tool bag
- Durable waterproof base

HVAC TECH-PAC

Unit: EA Qty: 1

Part No. PRVETOTECHPAC1

- HVAC Tech-Pac
- Only backpack tool bag that stands upright
- Ergonomic padded back

VETO TECH OPEN TOP- MEDIUM

Unit: EA Qty: 1

Part No. PRVETOTECHOTMC

- Veto Tech open top medium
- Compact open top tool bag
- Durable waterproof base

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ACR1000804 57
ACR1000806 57
ACR1001006 57
ACR1001008 57
ACR1001208 57
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ACR1051414 53
ACR1051616 53
ACR1051818-R410A 53
ACR1051818 53
ACR1052020 53
ACR1052222-R410A 53
ACR1052222 53
ACR1052424 53
ACR1052626-R410A 53
ACR1052626 53
ACR1053232 53
ACR1053434 53
ACR1054242 53
ACR1055050 53
ACR106040404 53
ACR106050504 54
ACR106050505 53
ACR106060604 54
ACR106060606 53
ACR106080804 54
ACR106080806 54
ACR106080808 53
ACR106101006 54
ACR106101008 54
ACR106101010 53
ACR106121206 54
ACR106121208 54
ACR106121210 54
ACR106121212 53
ACR106141414 53
ACR106161608 54
ACR106161612 54
ACR106161616 53
ACR106181814 54
ACR106181818-R410A 53
ACR106181818 53
ACR106202020 53
ACR106222214 54
ACR106222222-R410A 53
ACR106222222 53
ACR106242424 53
ACR106262626 53
ACR106323232 53
ACR106343434 53
ACR106424242 53
ACR106484848 53
ACR106505050 53
ACR113080606 55
ACR113080808 54
ACR113100808 55
ACR113101010 54
ACR113121010 55
ACR113121212 54
ACR113141010 55
ACR113141414 54
ACR113161212 55
ACR113181414 55
ACR113221414 55
ACR113261818 55
ACR2010404 60
ACR2010504 60
ACR2010505 60
ACR2010606 60
ACR2010808 60
ACR2011010 60
ACR2011212 60
ACR2020404 60
ACR2020604 60
ACR300306 13
ACR2020604SB 60
ACR2020606 60
ACR2020806 60
ACR2020808 60
ACR2021010 60
ACR2021212 60
ACR2030412 66
ACR2030512 66
ACR2030532 66
ACR2030612 66
ACR2060402 66
ACR2060404 68
ACR2060504 68
ACR2070402 66
ACR2070404 66
ACR2080403 68
ACR2080404 68
ACR2080504 68
ACR2090404 67
ACR2100404 68
ACR2100606 68
ACR2100808 68
ACR2101010 68
ACR2101212 68
ACR2110404 69
ACR2120402 69
ACR213040404 68
ACR214040404D 61
ACR2160402 62
ACR2160604 62
ACR2160804 62
ACR2160806 62
ACR2161208 62
ACR2161612 62
ACR2180404 64
ACR2180406 64
ACR2180606 64
ACR2180608 64
ACR2180808 64
ACR2181008 64
ACR2181010 64
ACR2181212 64
ACR2190404 64
ACR2190604 64
ACR2190606 64
ACR2190608 64
ACR2190808 64
ACR2190810 64
ACR2191212 64
ACR2191616 64
ACR2210402 65
ACR2210402L 65
ACR2210404 65
ACR2210406 65
ACR2210408 65
ACR2210602 65
ACR2210604 65
ACR2210606 65
ACR2210608 65
ACR2210804 65
ACR2210806 65
ACR2210808 65
ACR2210812 65
ACR2211008 65
ACR2211012 65
ACR2211212 65
ACR2220402 61
ACR2220404 61
ACR2220406 61
ACR2220602 61
ACR2220604 61
ACR2220606 61
ACR2220608 61
ACR2220806 61
ACR2220808 61
ACR2221008 61
ACR2221212 61
ACR2230402 61
ACR2230404 61
ACR2260404 61
ACR2260606 61
ACR2260808 61
ACR2280202 62
ACR2280404 62
ACR2280606 62
ACR2280808 62
ACR2281212 62
ACR230040404 61
ACR230060606 61
ACR230080808 61
ACR230101010 61
ACR230121212 61
ACR232040404 61
ACR233040402 61
ACR233040404 61
ACR235040404 61
ACR2400404 65
ACR2400504 65
ACR2400505 65
ACR2400604 65
ACR2400606 65
ACR2400804 65
ACR2400806 65
ACR2400808 65
ACR2401008 65
ACR2401010 65
ACR2401212 65
ACR2440402 66
ACR2440404 66
ACR2440406 66
ACR2440606 66
ACR2450404 63
ACR2450405 63
ACR2450406 63
ACR2450408 63
ACR2450504 63
ACR2450604 63
ACR2450606 63
ACR2450608 63
ACR2450804 63
ACR2450806 63
ACR2450810 63
ACR2451008 63
ACR2451210 63
ACR2460402 63
ACR2460404 63
ACR2460406 63
ACR2460604 63
ACR2460606 63
ACR2460608 63
ACR2460806 63
ACR2460808 63
ACR2461008 63
ACR2470402 63
ACR2470404 63
ACR2510202 64
ACR2510402 64
ACR2510404 64
ACR2510604 64
ACR2510606 64
ACR2510806 64
ACR2510808 64
ACR2511212 64
ACR2600404 69
ACR2600606 69
ACR2600808 69
ACR2610404 60
ACR2610606 60
ACR2610808 60
ACR300415 13
ACR301032S 13
ACR301052S 13
ACR301053S 13
ACR301082S 13
ACR301083S 13
ACR301163S 13
ACR301164S 13
ACR301165S 13
ACR301304S 13
ACR301305S 13
ACR301306S 13
ACR301307S 13
ACR301417S 13
ACR301419S 13
ACR3021401 14
ACR3021801 14
ACR3021802 14
ACR3022202 14
ACR3022203 14
ACR3022601 14
ACR3022602 14
ACR3022603 14
ACR3023401 14
ACR3023402 14
ACR3023403 14
ACR3023404 14
ACR3024202 14
ACR3024203 14
ACR3024204 14
ACR3024802 14
ACR302INTER 14
ACR302INTER2 14
ACR302INTR3 14
ACR303083 15
ACR303083S 15

INDEX

ACR303163 15
ACR303163S 15
ACR303164 15
ACR303164S 15
ACR303165 15
ACR303165S 15
ACR303305 15
ACR303306 15
ACR303306S 15
ACR303307S 15
ACR303309S 15
ACR303P405S 15
ACR303P406S 15
ACR303P407S 15
ACR303P409S 15
ACR304082 16
ACR304082S 16
ACR304083 16
ACR304083S 16
ACR304084 16
ACR304084S 16
ACR304163 16
ACR304163S 16
ACR304164 16
ACR304164S 16
ACR304165 16
ACR304165S 16
ACR304167S 16
ACR304307S 16
ACR3051 16
ACR3052 16
ACR3053 16
ACR3054 16
ACR3055 16
ACR3056 16
ACR3057 16
ACR3061016 17
ACR3061019 17
ACR3061216 17
ACR3061226 17
ACR3061408HE 17
ACR3061434 17
ACR3061440 17
ACR306185508HE 17
ACR3061855 17
ACR3061859 17
ACR3062263 17
ACR3062271 17
ACR3062610 17
ACR3063415 17
ACR3064234 17
ACR3065048 17
ACR30706 18
ACR30706S 18
ACR30708 18
ACR30710 18
ACR30714 18
ACR30714E 18
ACR30718 18
ACR30718E 18
ACR30718E2 18
ACR30722 18
ACR30722E 18
ACR30722E2 18
ACR30726 18
ACR30726E 18
ACR30910 18
ACR309109 18
ACR30914 18
ACR309145 18
ACR30924 18
ACR309245 18
ACR30944 18
ACR30960V 18
ACR30982 18
ACR31114 17
ACR31118 17
ACR31122 17
ACR31126 17
ACR40012 23
ACR40016 23
ACR40020 23
ACR40028 23
ACR40036 23
ACR401041220B 21
ACR401061220 21
ACR401061220B 21
ACR401061220S 22
ACR401061620 21
ACR401061620B 21
ACR401081220 21
ACR401081620 21
ACR401081620B 21
ACR401081620S 22
ACR401101620 21
ACR401101620S 22
ACR401102030 21
ACR401102030S 22
ACR401122030 21
ACR401142030 21
ACR401142030S 22
ACR401142830 21
ACR401182030 21
ACR401182030B 21
ACR401182030S 22
ACR401182835 21
ACR401182835B 21
ACR401182835S 22
ACR401222835 21
ACR401262835 21
ACR401263650 21
ACR401263650B 21
ACR4020612 22
ACR4020816 22
ACR4021016 22
ACR4021820 22
ACR4021828 22
ACR4030612 22
ACR4030816 22
ACR4031016 22
ACR4031216 22
ACR4031416 22
ACR4031420 22
ACR4031828 22
ACR404041220S 22
ACR404061220S 22
ACR404081620S 22
ACR4060616 23
ACR4061220 23
ACR4082236 23
ACR6000404 19
ACR6000606 19
ACR6000808 19
ACR6001010 19
ACR6030404 19
ACR6030606 19
ACR6030808 19
ACR6050404 20
ACR6050606 20
ACR6050808 20
ACR6051010 20
ACR6051212 20
ACR6071414 20
ACR6071818 20
ACR6072222 20
ACR6072626 20
ACR6073434 20
ACR6080404 19
ACR6080606 19
ACR6080808 19
ACR6081010 19
ACR6090404 20
ACR6090606 20
ACR6090808 20
ACR6091010 20
ACR800ESF250PG 39
ACR90012 23
ACR90028 23
AX-4-250-S-240 85
AX-4-300-S-240 85
AX-4-350-S-240 85
AX-4-400-S-240 85
AX-4-450-S-240 85
AX-4-500-S-240 85
AX-6-500-S-415 85
AX-6-630-S-415 85
BA30155696 119
BA30158001 119
BRIH20C343ABHA 11
BRIH20C403DBEA 11
BRIH20R104DBEA 11
BRIH20R124DBEA 11
BRIH20R453DBEA 11
BRIH20R483DBEA 11
BRIH20R943DBEA 11
BRIH23A383DBEA 10
BRIH23A423ABKA 10
BRIH23A423DBEA 10
BRIH23A463ABKA 10
BRIH23A463DBEA 10
BRIH23A543DBEA 10
BRIH23A563DBEA 10
BRIH23B20QABKA 10
BRIH23C383ABKA 11
BRIH23C473DBEA 11
BRIH25G094DBVE 10
BRIH25G144DBEE 10
BRIH29A683DBVA 10
BRIH29A723DBVA 10
BRIH29B24UABHA 10
BRIH29B30UABHA 10
BRIH29B32UABHA 10
BRIH29B35UABHA 10
BRIH2BG104DBEE 10
BRIH2BG124DBEE 10
BRIH2NG184GPE 10
BRIH2NG204DREF 10
BRIH2NG204GPEF 10
BRIH2NG244DREF 10
BRIH2NG294DPEF 10
BRIH92G104DBEE 10
BRIHEATER1 11
BRIHEATER2 11
BRIMODULE1 11
BRIMODULE2 11
CA1600D 98
CA1700D 98
CA1900D 98
CAPSP10 74
CAPSP11 74
CAPSP1 74
CAPSP2 74
CAPSP3 74
CAPSP4.5 74
CAPSP4 74
CAPSP5 74
CAPSP6.5 74
CAPSP6 74
CAPSP7 74
CAPSP8 74
CAPSP9 74
CARIR33COHB00 75
CARIR33COHR00 75
CARIR33SOER00 75
CARIRTRRES000 76
CARMD33A5ER00 76
CARMD33D5EB00 76
CARNTC015HP00 76
CARNTC015WH01 76
CARNTC060HP00 76
CARNTC060WH01 76
CARPJEZC0000 75
CARPJEZSOH000 75
CARRLY2403HP 76
CARSPKC002310 77
CARSPKT0011C0 77
CARSPKT0021C0 77
CARSPKT0031C0 77
CARTRA00BE240 76
CARTRADRBE240 76
CG101006 38
CG101010 38
CG161746 81
CG161748 81
CHENEK6170Z 4
CHENEK6181GK 4
CHENEK6187Z 4
CHENEK6213GK 4
CHENEK6214Z 4
CHENEK6217GK 4
CHENEU2155GK 4
CHENEU2168GK 4
CHENEU2178GK 4
CHENEU6210Z 4
CHENEU6212Z 4
CHENJ2212GK 4
CHENJ6226Z 4
CHENJ9232GK 4
CHENJ9238GK 4
CHENT2192GK 4
CHENT6217Z 4
CHENT6220Z 4
CHENT6222GK 4
CHENT6226GK 4
COPDTSW-Q2D8 23
COPDTSW-Q3D14 23
COPDTSW-Q4D28 23
COPDTSW-Q5D31 23
COPZB15KQEPFJ 6
COPZB15KQETFD 6
COPZB21KQEPFJ 6
COPZB21KQETFD 6
COPZB26KQEPFJ 6
COPZB26KQETFD 6
COPZB29KQETFD 6
COPZB38KQETFD 6
COPZB45KQETFD 6
COPZB58KQETFD 6
COPZB66KQETFD 6
COPZB76KQETFD 6
COPZBD76KCE-TFD 6
COPZP42KSEPFZ-522 6
COPZP54K3ETFD 7
COPZP61KCEPFZ522 6
COPZP83KCETFD-522 7
COPZR108KCETFD 7
COPZR125KCETFD522 7
COPZR144KCETFD 7
COPZR160KCETFD 7
COPZR190KCETFD 7
COPZR22K3EPFJ 7
COPZR250KCETFD 7
COPZR34K3PFJ 7
COPZR42KCTFD 7
COPZR47KCEPFZ522 7
COPZR47KCETFD522 7
COPZR57KCETFD 7
COPZR61KCEPFZ 7
COPZR61KCETFD 7
COPZR68KCEPFZ 7
COPZR68KCETFD 7
COPZR72KCETFD 7
COPZR81KCETFD 7
COPZR94KCETFD 7
COPZRHEATER1GEN 8
COPZRHEATER2GEN 8
COPZRHEATERGEN 8
CR0200 91
DAN077B6043 80
DAN077B6138 80
DAN077B7001 80
DAN077B7002 80
DAN077B7003 80
DAN077B7005 80
DAN077B7006 80
DAN077B7007 80
DAN077B7008 80
DANOR00 29
DANOR01 29
DANOR02 29
DANOR03 29
DANOR04 29
DANOR05 29
DANOR06 29
DANOR0X 29
DANSC12CLX 5
DANSC12G 5
DANSC15G 5
DANSC18CLX 5
DANSC18G 5
DANTEN2 29
DANTEN2S 29
DANTES2 29
DANTES2MOP 29
DANTES2S 29
DANTEX2 29
DANTEX2S 29
DANTN2 29
DANTN2S 29
DANTS2 29
DANTS2MOP 29
DANTS2S 29
DANTS2SMOP 29
DANTX2 29
DANTX2S 29
DEKDFE100BS 35
DEKDFE101BS 35
DEKDFE102BA 35
DEKDFE103B 35
DEKDFE104B 35
DEKDFE105B 35
DEKDFE106B 35
DEKDFE107B 35
DEKDFE10MB 35
DEKDIS09-006 48
DEKDIS09-010 48
DEKDIS09-012 48
DEKDIS09-015 48
DEKDIS09-020 48
DEKDIS09-022 48
DEKDIS09-025 48
DEKDIS09-028 48
DEKDIS09-032 48
DEKDIS09-067 48
DEKDIS13-010 49
DEKDIS13-012 49
DEKDIS13-015 49
DEKDIS13-020 49
DEKDIS13-022 49
DEKDIS13-025 49
DEKDIS13-028 49
DEKDIS13-032 49
DEKDIS13-040 49
DEKDIS13-042 49
DEKDIS13-050 49
DEKDIS13-060 49
DEKDIS15-012UV 49
DEKDIS15-020UV 49
DEKDIS15-12UV-25 49
DEKDIS15-20UV-20 49
DEKDIS19-012 49
DEKDIS19-015 49
DEKDIS19-020 49
DEKDIS19-022 49
DEKDIS19-025 49
DEKDIS19-028 49
DEKDIS19-032 49
DEKDIS19-054 49
DEKDIS19-080 49
DEKDIS19-101 49
DEKDIS25-010 50
DEKDIS25-012 50
DEKDIS25-015 50
DEKDIS25-020 50
DEKDIS25-022 50
DEKDIS25-025 50
DEKDIS25-028 50
DEKDIS25-032 50
DEKDIS25-035 50
DEKDIS25-054 50
DEKDIS25-067 50
DEKDIS25-076 50
DEKDIS25-080 50
DEKDIS25-101 50
DEKDIS25-114 50
DEKDNLS102B 35
DEKDTHRKIT110 35
DEKDTHRKIT65 35
DEKDTHRKIT80 35
DYNAFLOWFLAT-EA 39
DYNAFLOWFLAT 39
DYNAFLOWROUND-EA 39
DYNAFLOWROUND 39
ELID8000MB 76
FLFM132R114 50
FLFM132R118 50
FLFM132R12 50
FLFM132R138 50
FLFM132R14 50
FLFM132R158 50
FLFM132R218 50
FLFM132R258 50
FLFM132R318 50
FLFM132R34 50
FLFM132R38 50
FLFM132R418 50
FLFM132R58 50
FLFM132R78 50
FM103709M 86
GO944KIT 94
GO947KIT 94
GO948KIT 94
GREAC02 31
GREAC03 31
GREAC05 31
GREAC06 31
GREAC07 31
GREAC08 31
GREAC5025 32
GREAC5026 32
GREAC5027 32
GREAC5028 32
HD11213S 48
HD11414S 48
HD116S 48
HD11815S 48
HD11820S 48
HD120S 48
HD1221S 48
HD13814S 48
HD1421S 48
HD15818S 48
HD15820S 48
HD21818S 48
HD25818S 48
HD34185S 48
HD3420S 48
HD3821S 48
HD5819S 48
HD7817S 48
HD7820S 48
HRP400 34
HRP450B 33
HRP450S 34
HRP900 33
HRP900B 33
HWCMT907A1041 81
HWVC2011ZZ00 78
HWVC6931ZZ11 78
HWVCZZ1100 78
HWVCZZ6100 78
MANMTZ1004 8
MANMTZ1254 8
MANMTZ1444 8
MANMTZ1604 8
MANMTZ364 8
MANMTZ404 8
MANMTZ444 8
MANMTZ504 8
MANMTZ514 8
MANMTZ564 8
MANMTZ574 8
MANMTZ644 8
MANMTZ724 8
MANMTZ804 8
MANSM1104 9
MANSM1154 9
MANSM1204 9
MANSM1254 9
MANSM1484VAI 9
MANSM1614 9
MANSM1854 9
MANSZ0844 9
MANSZ1004 9
MANSZ1204V 9

MANSZ1484VAI 9
MANSZ1604 9
MANSZ1854 9
MC40336 112
MC40360 112
MC40372 112
MC40396 112
MC47124-ST 113
MC47184-ST 113
MC47244-ST 113
MC47336 112
MC47360 112
MC47364-ST 113
MC47372 112
MC47484-ST 113
MC49336-J 113
MC49336-JT 113
MC49360-J 113
MC49360-JT 113
MC52224-D 105
MC52228 105
MC52229 105
MC52270 106
MC53004 116
MC55661G 114
MC69300-220 111
MC69395-220 111
MC69400-220 111
MC69HVAC-PRO2 112
MC70025 106
MC70027 106
MC70028 107
MC70029 106
MC70030 107
MC70033 106
MC70034 107
MC70035 106
MC70037 106
MC70053 109
MC70057 109
MC70059 109
MC70063 108
MC70064 108
MC70065 108
MC70066 108
MC70067 108
MC70069-A 108
MC70070 108
MC70071 108
MC70072 108
MC70073 108
MC70074 108
MC70075 108
MC70076 108
MC70077 108
MC70078 111
MC70081 110
MC70082 110
MC70083 110
MC70085 110
MC70088 110
MC71600-A 109
MC71675 109
MC71685 110
MC71686-2 110
MC72029 106
MC72030 107
MC72034 107
MC72035 106
MC82834-E 114
MC82934-E 114
MC90032-6 115
MC90058A 117
MC90058SL 117
MC90063-2V-220-B 117
MC90066-220-BSF 117
MC90066-2V-220-B 117
MC90067-220 117
MC90068-2V-220-B 117
MC90262-60 113
MC90328-5/16 114
MC90328 114
MC90410 113
MC90413 113
MC90430 112
MC90433 112
MC90612-2V-220-B 117
MC90925 115
MC91046-A 116
MC91049-128-4 116
MC91049-128 116
MC91496 109
MC91498 109
MC91553-EE 115
MC93103-EB1 114
MC93103-MB1 114
MC93661-EB1-433 114
MC93661-MRB1 114
MC94160 112
MC94172 112
MC96203-EB1 115
MC96203-MB1 115
MC96261-EB1-433 115
MC96261-MRB1 115
MC98061-SEN 116
MC98061 116
MC98210-A-PB 111
MC98210-A 111
MC98315 111
MC99103-A-2 114
MC99903-02 114
MC99903 114
MC99963-EU 114
MCEBH1 115
MCEBL1 115
MCHVAC-BAG 116
MCMRBH1 115
MCMRBL1 115
PC1234 47
PC1412 47
PC1438 47
PC1458 47
PC3834 47
PC3858 47
PCFR1458-13 47
PCFR1458-19 47
PCFR3834-13 47
PCFR3834-19 47
PCFR3858-13 47
PCFR3858-19 47
PEN271-51L 74
PENA19AAB-42C 81
PENA19ABC-27C 81
PENA19ABC-41C 81
PENA19ABC-5C 81
PENA19ABC-67C 81
PENA19ACA-28 81
PENA19ADB-26C 81
PENA19ADB-27C 81
PENA19ARC-9105 81
PENA19BAC-3C 81
PENA25CN-4C 81
PENA28AA-65C 81
PENA419ABC-1C 81
PENA419AEC-2C 81
PENA421ABC-02C 81
PENA421AEC-02C 81
PENF61SB-9100 77
PENP28AA-41C 75
PENP28AA-42C 75
PENP32AC-2C 75
PENP32AF-2C 75
PENP45NCA-12C 75
PENP74EA-8C 75
PENP77AAA-9300 74
PENP77AAA-9350 74
PENP77AAA-9351 74
PENP77AAW-9355 74
PENP77BCA-9300 74
PENP77BEA-9350 74
PENP78ALA-9351 74
PENP78LCA-9300 74
PENP78MCA-9300 74
PENP78PGA-9300 74
PENT2000HHC 81
PENT25B-9101 81
PENT25B-9102 81
PENT26S-22C 81
PENV246GD 78
PENV246GE 78
PENV46AA-9600 78
PENV46AB-9600 78
PENV46AC-9600 78
PENV46AD-9600 78
PENV46AE-9600 78
PENV46AS-2C 78
PPB6088 33
PPB6737 33
PPB9096 33
PR15XCE 40
PR20XCE 40
PR2103015 40
PR2103020 40
PR2103025 40
PR2106015 40
PR2106020 40
PR2106025 40
PR2108015 41
PR2108020 41
PR2108025 41
PR2117015 40
PR2117020 40
PR2117025 40
PR25XCE 40
PRAP-703 39
PRB9368SET 33
PRCT-302 39
PRCT-900DEP 73
PRCT-900M 73
PRDV100ER32 117
PRDV50ER32 117
PRFP1080 37
PRFP2020 39
PRFP2024 39
PRFP2028 39
PRFP2030 39
PRFP2032 39
PRFP2050 32
PRFP2052 32
PRFP2054 32
PRFP2212 37
PRFP2622 39
PRFP2624 39
PRFP3006 37
PRFP3312 37
PRFP3349 37
PRNO70100 41
PRNO70500 41
PRPPS084 41
PRPPS106 41
PRPPS143 41
PRPSC10 44
PRPSC7 44
PRPSCA10 43
PRPSCA7 43
PRPSD10 43
PRPSD7 43
PRPSDR107 45
PRPSE10 45
PRPSE7 45
PRPSF108 44
PRPSF710 44
PRPSF75 44
PRPSJ10 44
PRPSJ7 44
PRPSK10 44
PRPSK7 44
PRPSKF10 44
PRPSKF7 44
PRPSP10 45
PRPSP7 45
PRPSWA10 43
PRPSWA7 43
PRPTR10Z 34
PRPTV472 120
PRPTV4722 120
PRPTV4728 120
PRPTV4735 120
PRVETOMB2 121
PRVETOTECHLC 121
PRVETOTECHMCT 121
PRVETOTECHOTMC 121
PRVETOTECHPAC1 121
PRVETOTECHPACME 121
Q-10-20 86
Q-16-25 86
Q-172-S 86
Q-200-B 86
Q-200-S 86
Q-230-S 86
Q-25-40 86
Q-250-B 86
Q-250-S 86
Q-254-S 86
Q-300-S 86
Q-34-45 86
Q-5-13 86
RAN016-6930 79
RAN016-6950 79
RAN016-6951 79
RAN016-6954 79
RAN016-6980 79
RAN016-6981 79
RAN016-6983 79
RAN016-8705 73
RAN016-8706 73
RAN016-8713 73
RAN016-8750 73
RAN016-8751 73
RAN016-8900 79
RAN017-8701 73
RAN017-8703 73
RAN017-8705 73
RAN017-8711 73
RAN018-100-080 73
RAN31696-1 73
RAN3600253006 73
RAN3600254004 73
RAN48129-3 73
RAN632-21 72
RAN8245-21 72
RANA1400-21 72
RANA22-1129-00 79
RANA22-2217-057 79
RANA22-2453-70 79
RANAC-ULTRA 82
RANAC-ULTRAPLUS 82
RANB1401-21 72
RANC17-177 79
RANC17-334 79
RANE152217257 79
RANRCR-5052-2 79
RANSUL181H 72
RANTHE0086AU 72
RANVA-2 80
RANVB-7 80
RANVC-1 80
RANVF-3 80
RANVP-4 80
RANVR-6 80
RANVS-5 80
RANVT-9 80
RANVTD9 80
RANWF64B 72
RANWF64C 72
RANWTR610 72
REFCYL10 98
REFNITROD 99
REFR134A 98
REFR134AK 99
REFR32 99
REFR404A 98
REFR404AK 99
REFR410A 99
REFR410AK 99
REPSAC-MED 35
REPSAC-SML 35
ROWRAC-09CHSA/IFO 31
ROWRAC-12CHSA/IFO 31
ROWRAC-18CHSA/IFO 31
ROWRAC-24CHSA/IFO 31
ROWRAC-28CHSA/IFO 31
ROWRAC-CW09 32
ROWRAC-CW13 32
RT100G 93
RT100S 93
RT150G 93
RT150S 93
RT175B 94
RT200R 94
RT201B 94
RT26801 97
RT26832 97
RT300G 95
RT350G 95
RT350S 95
RT375A 95
RT380G 95
RT390G 95
RT410S 93
RT500G 96
RT500N 96
RT800S 96
RT900B 97
S804521 72
S814521 72
SANDPF-09001 26
SANDPF-09002 26
SANDPF-09003 26
SANDPF-09004 26
SANDPF-09005 26
SANDPF-09006 26
SANDPF-09007 26
SANDPF-09008 26
SANDPF-09010 26
SANDPF-09012 26
SANDPF-09013 26
SANMDF-08002 26
SANMDF-08004 26
SANMDF-08006 26
SANMDF-08010 26
SANMDF-08011 26
SANMDF-08012 26
SANMDF-08027 26
SANMDF-08040 25
SANMDF-08042 25
SANMDF-08044 25
SANMDF-08046 25
SANMDF-60001 26
SANMDF-60003 26
SANMDF-60004 26
SANPQ-M03 27
SANPQ-M10 27
SANRFK-24001 28
SANRFK-24002 28
SANRFK-24007 28
SANRFK-24008 28
SANRFK-24013 28
SANRFK-24014 28
SANRFK-24019 28
SANRFK-24020 28
SANRFK-24036 28
SANRFK-24037 28
SANRFK-24038 28
SANRFK-24039 28
SANRFK-24040 28
SANRFK-24041 28
SANRFK-24042 28
SANRFK-24043 28
SANSBV-13002 25
SANSBV-13005 25
SANSBV-13007 25
SANSBV-13009 25
SANSBV-13010 25
SANSBV-13012 25
SANSBV-13013 25
SANSBV-13015 25
SANSBV-13020 25
SANSBV-13023 25
SANSBV-13025 25
SANSBV-13027 25
SANSBV-13028 25
SANSBV-13030 25
SANSBV-13031 25
SANSBV-13033 25
SANSBV-13037 25
SANSBV-13038 25
SANSBV-13039 25
SANSBV-13040 25
SANSBV-13103 25
SANSHF-19008 27
SANSHF-19009 27
SANSHF-19014 27
SANSHF-50016 27
SANSHF-50022 27
SANSHF-50027 27
SANSHF-50044 27
SANSHF-50048 27
SANSHF-56001 28
SANSHF-56004 28
SANSHF-56005 28
SANSHF410FA4 28
SANSHF410FA5 28
SANYCQB02H01 27
SANYCQB02L12 27
SANYCQB02L28 27
SBGDB163.1E 79
SBGDB164.1E 79
SBGDB341.1E 79
SBPV21 101
SBPV31 101
SBTGK 82
SBTGRK 82
SBTGUK2 82
SD1221CL 47
SD1421CL 47
SD34185CL 47
SD3821CL 47
SD5819CL 47
SD70220 101
SD7817CL 47
SHS16001 97
SHS20004 94
SHS21004 94
SHS31032 97
SICG220 102
SIM1 103
SIM3 103
SMO44 97
SMO98 97
SRCO420 101
SRCO620 101
SRCO820 101
SRO22 102
SRO42 102
SRO62 102
SRO82 102
SSF4311 103
SSF8404 103
SSM672 86
SSM675 86
SSM998 86
SSPP5 102
SSPP6 102
SSUPR 101
STD69 101
STD73 101
STPMPU 87
SURSC20 102
TCCH-2 42
TFLX-10-2BC-20M 42
TFLX-10-2BC-5M 42
TSX-TERM-1-BC 42
VCBFT2E7050V 42
VCBFT2E7067V 42
VCBFT3E7050N 42
VCBFT3E7050V 42
VCBFT3E7067N 42
VCBOC3E7067V1 42
VCBOC4E7067V1 42

VCBSDI7067VRD 42
VCNSLCLRRG 98
VCNSLWITRG 98
VCNTPD050B 38
VCNTPD050G 38
VCNTPD050W 38
VCNTRF100 38
VCNTRF48 38
VCNTRF75 38
VCNTSF48 38
VCNTSF75 38
VDIXNG6P10 77
VDIXNG6P3 77
VDIXNG6P 77
VDIXR20CX 77
VDIXR30CX 77
VDIXR40CX 77
VDIXR60CX 77
VDIXR70CX 77
VDWB150 32
VDWB250 32
VDXR06CX 77
VEBM40JB 37
VEC989803608P 33
VEZYFDP16 41
VEZYPP24 34
VEZYPRM75 34
VHC10001 94
VHC17001 96
VHC17004 96
VHMAPPRO 120
VHOXY 120
VMC-12B-240VAC 83
VMC-18B-240VAC 83
VMC-22B-240VAC 83
VMC-32A-240VAC 83
VMC-40A-240VAC 83
VMC-50A-240VAC 83
VMC-65A-240VAC 83
VMC-9B-240VAC 83
VMIZU 96
VMT-32-0.16 83
VMT-32-0.25 83
VMT-32-0.4 83
VMT-32-0.63 83
VMT-32-1.6 83
VMT-32-10 83
VMT-32-13 83
VMT-32-1 83
VMT-32-18 83
VMT-32-2.5 83
VMT-32-22 83
VMT-32-25 83
VMT-32-32 83
VMT-32-40 83
VMT-32-4 83
VMT-32-6 83
VMT-32-8 83
VMT-32-9 83
VMT-63-40 83
VMT-63-50 83
VMT-63-65 83
VMX3-100 96
VMX3-300 96
VPADWFL0300 34
VPADWFL0450 34
VPCO-1 87
VPMSI-RM3 119
VPMSI-RV3 119
VPROGLY200 87
VPROGLY20 87
VPVAB10 21
VPVAB11 21
VPVAB3 21
VPVAB4 21
VPVAB5 21
VPVAB6 21
VPVAB8 21
VPVAB82 21
VPVAB83 21
VPVAF10 20
VPVAF11 20
VPVAF3 20
VPVAF4 20
VPVAF5 20
VPVAF6 20
VPVAF7 20
VPVAF8 20
VPVAF82 20
VPVAF83 20
VPVAF9 20
VRC4-1.5 89
VRC4-100 89
VRC4-10 89
VRC4-10TH 89
VRC4-12 89
VRC4-14 89
VRC4-15 89
VRC4-15TH 89
VRC4-16 89
VRC4-1 89
VRC4-20 89
VRC4-20TH 89
VRC4-25 89
VRC4-25TH 89
VRC4-2 89
VRC4-30 89
VRC4-35 89
VRC4-3 89
VRC4-40 89
VRC4-45 89
VRC4-4 89
VRC4-50 89
VRC4-55 89
VRC4-5 89
VRC4-60 89
VRC4-6 89
VRC4-70 89
VRC4-75 89
VRC4-80 89
VRC4-8 89
VRC4-90 89
VRCL4-30 89
VRCL4-35 89
VRCL4-40 89
VRCS-P-4-10 90
VRCS-P-4-12 90
VRCS-P-4-14 90
VRCS-P-4-15 90
VRCS-P-4-16 90
VRCS-P-4-1 90
VRCS-P-4-20 90
VRCS-P-4-25 90
VRCS-P-4-2 90
VRCS-P-4-30 90
VRCS-P-4-35 90
VRCS-P-4-3 90
VRCS-P-4-40 90
VRCS-P-4-45 90
VRCS-P-4-4 90
VRCS-P-4-50 90
VRCS-P-4-55 90
VRCS-P-4-5 90
VRCS-P-4-60 90
VRCS-P-4-6 90
VRCS-P-4-70 90
VRCS-P-4-80 90
VRCS-P-4-8 90
VRCT851304DSODPC02 85
VRCT851506STEM02 85
VRCT851804STEF02T 85
VRCT851804STEM02 85
VRCT852006DSODPC02 85
VRCT852506STEM02 85
VRCT853006STEM02 85
VRCT853706MSTEM05 85
VRCT853706STEB02T 85
VRCT853706STEM02 85
VRCT853756STED02TS 85
VRCT854254STEB02 85
VRCT854506STED02S 85
VRCT855504SB02 85
VRCT856004SODPB02 85
VRCT857504SB02 85
VRCT857504SODPB02 85
VRCT9011004DSODPC2 85
VRCT9011204SODPA02 85
VRCT9015004SODPA02 85
VRDC4-30-1.5 91
VRDC4-35-6 91
VRDC4-50-6 91
VSC2K108-130 91
VSC2K124-149 91
VSC2K145-174 91
VSC2K160-200 91
VSC2K189-227 91
VSC2K200-250 91
VSC2K216-260 91
VSC2K233-280 91
VSC2K25-30 91
VSC2K25-40 91
VSC2K250-315 91
VSC2K270-324 91
VSC2K40-50 91
VSC2K50-63 91
VSC2K63-80 91
VSC2K72-88 91
VSC2K88-108 91
VSET500B 39
VSUN3GS205 87
VSUN3GS20 87
VSUN4GS20 87
VSUN4GS4 87
VSUN4SA205 87
VSUN4SA20 87
VSUNSL32S1 87
VSUNSL32S20 87
VSUNSL32S4 87
VSUNSL68S1 87
VSUNSL68S20 87
VSUNSL68S4 87
VWPISTAND 43
VWPS1-20 43
VWPS1-35 43
VWPS2-20 43
VWPS3-20 43
VWPS3-35 43
VWPSS-20 43
W0001 82
W0004 82
W0005 82
W0006 82
W0009 82
W00172BLUR 82
W0028 82
W0029 82
ZBDIAMOND 36
ZBDIAMONDR 36
ZCVT1030 37
ZCVT6100 37
ZCVT630 37
ZMAXIBLUE 36
ZMAXIBLUER 36
ZMINIBLUE-R 36
ZMINIBLUE 36
ZMINIBLUES 36
ZSILENCER 36

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