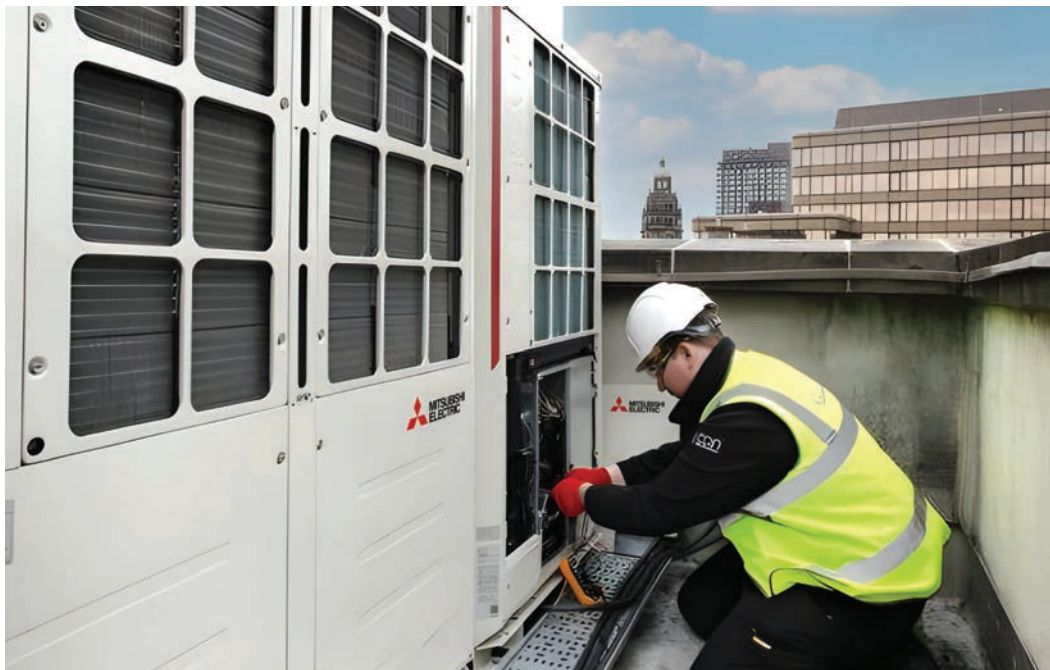


kooltech

AIR CONDITIONING & REFRIGERATION

www.kooltech.co.uk

- AIR CONDITIONING • AIR CONDITIONING ACCESSORIES
- INSTALL MATERIALS • REFRIGERANT • SERVICE PRODUCTS
- REFRIGERATION • TOOLS





At Kooltech, sustainability is a key priority. Since September 2021, we have partnered with Carbon Neutral Britain™ to measure and offset our carbon footprint, achieving Certified Carbon Neutral status. Our carbon footprint is calculated using the ISO 14064 and GHG Emissions Protocol standards, two of the most globally recognised methods. This includes direct emissions from Kooltech vehicles and indirect emissions like electricity, gas, remote work, business travel, commuting, and waste management.

All of our business activities and deliveries are now fully offset, ensuring we operate as a carbon-neutral company.

Our carbon reduction efforts are further supported by investing in Woodland projects locally and globally, through Verra's Verified Carbon Standard (VCS), Gold Standard, and UN's Certified Emission Reduction (CER) programs, ensuring transparency and accuracy in emissions management. We're committed to continually reducing emissions for a greener future.

Some of the verified tree planting and offsetting projects we are supporting:



Burgos Wind Farm Project - Philippines



High Impact Reforestation Program - Nicaragua



Yorkshire Woodland Management - England

At the end of July 2024, we completed the installation of photovoltaic (PV) solar panels at our headquarters. A total of 159 PV solar panels were installed on the roof of our Glasgow head office, covering 410 square meters.

These panels are projected to generate 86.66kW of electricity, which will meet 30% of our headquarters' energy needs. The installation is expected to reduce our CO2 emissions by 15,894 kg. We intend to continue to implement carbon reduction projects within the business.

Be sure to read more about them at www.carbonneutralbritain.org

Our calculated carbon output include our direct emissions from:

- Kooltech delivery vehicles
- Indirect emissions such as electricity and gas usage
- Staff working from home
- Business travel
- Staff commuting
- Waste, etc.

We believe it is important that we take responsibility for the impact our business has on the environment, do our bit to tackle climate change and to grow the business sustainably into the future. We aim to reduce our emissions wherever possible and just not offset.

Meaning all of our business activities and deliveries are fully offset and carbon neutral.

TRUSTED PARTNERS TO THE REFRIGERATION AND AIR CONDITIONING INDUSTRY FOR OVER 45 YEARS...

Our Head Office,
Hillington Park, Glasgow.



Founded in 1979 Kooltech has grown through innovation from its origins as a manufacturer of bottle coolers and Tecumseh agent to the UK's trusted wholesaler and distributor of quality Refrigeration and Air Conditioning products.

Kooltech now operate out of 7 locations nationally including a purpose built, state of the art facility with the capacity to provide a range of standard and bespoke design solutions for both Refrigeration and Air Conditioning.

WE DELIVER QUALITY PRODUCTS, COMPLETE, AND ON-TIME TO YOUR LOCATION NATIONALLY.

Our Branch Network - 7 branches nationwide

- ✓ Substantial Stock
- ✓ Quality Products
- ✓ Competitive Prices
- ✓ Collection or Delivery

We hold an extensive range of Mitsubishi Electric Air Conditioning equipment, ancillaries and refrigeration service and install materials ensuring we deliver once and complete.

Service For You

- ✓ Quote Turnaround
- ✓ System Design
- ✓ Technical Support
- ✓ Account Management

Kooltech is committed to providing your business with a professional service, whether it is a response to your enquiries, assisting with your system design or simply being on site with your equipment.

Delivering For You - Order by 4pm for next day*

- ✓ Next Day
- ✓ AM
- ✓ Same Day
- ✓ Timed Delivery
- ✓ Weekend
- ✓ Emergency Call Out*

Kooltech operates its own national fleet of vehicles giving our customers a totally flexible delivery service, where you want it, when you want it.

*See back of catalogue for Terms and Conditions and more information.

24/7 Online @ www.kooltech.co.uk

It could not be easier. Register today to build a quote, order and view your own discounted prices online, anytime. It is secure and convenient.

Activate Your Credit Account Online

- ✓ View Your Latest Trade Prices
- ✓ Purchase Online Using Your Credit Account
- ✓ Build, Save, and Share Product Baskets
- ✓ Download Previous Invoices
- ✓ Make Payments
- ✓ Check Your Credit Balance Effortlessly

Register today at www.kooltech.co.uk and place your order.

CONTACT DETAILS:

HEAD OFFICE

0345 034 4180

Strathaird, 12 Mossland Road,
Hillington Park, Glasgow, G52 4XZ

GLASGOW

☎ 0345 034 4171

✉ glasgow.branch@kooltech.co.uk

NEWCASTLE

☎ 0345 034 4172

✉ newcastle.branch@kooltech.co.uk

MANCHESTER

☎ 0345 034 4173

✉ manchester.branch@kooltech.co.uk

BIRMINGHAM

☎ 0345 034 4174

✉ birmingham.branch@kooltech.co.uk

LONDON (Hayes)

☎ 0345 034 4175

✉ london.branch@kooltech.co.uk

FAREHAM

☎ 0345 034 4176

✉ fareham.branch@kooltech.co.uk

CAMBRIDGE

☎ 0345 034 4177

✉ cambridge.branch@kooltech.co.uk

FROM DESIGN THROUGH TO COMMISSIONING... WE ARE WITH YOU EVERY STEP OF THE WAY

Projects and Applications Team – Pre Sales

Over 30 Years Experience ✓ Project Design ✓ On Site Support ✓ CAD and Schematics.

Our team of engineers can assist you with advice on all Mitsubishi Electric Cooling, Heating and Ventilation products and our ranges of refrigeration equipment, ensuring the best possible and most energy efficient solution for your project. We are ready to take on your next project however challenging.



TECHNICAL SERVICES-AFTER SALES TECHNICAL HELPLINE 0345 034 4189

Fault Finding ✓ On Site Services ✓ Spare Parts ✓ Warranty ✓ CPD Training ✓

Our team of experienced engineers provide an array of services on site. These include fault finding on Mitsubishi Electric VRF, Mr Slim and control system, providing invaluable troubleshooting for contractors and consultants alike.

Onsite services of Mitsubishi Electric equipment and Controls include:

- ✓ Strip down and rebuild of Mr Slim and VRF ✓ Commissioning (inc. Controls)
- ✓ Fault finding ✓ Diagnostic Health Checks

Contact our technical team to learn more about our technical services and training.
technical@kooltech.co.uk



MANUFACTURED AND ENGINEERED IN THE UK BY KOOLTECH

ENERGY, ENVIRONMENT, EFFICIENCY... IT'S ALL UNDER CONTROL

The K-con range of Bespoke Solutions has evolved from understanding our customers' needs and applications. These special products work in conjunction and offer enhancements to the already fantastic Mitsubishi Electric range of Air Conditioning Cooling, Heating and Ventilation products.

Our K-con range is extensive and our technical experts are continuing to develop further products to keep ahead of our competition.

THE RANGE INCLUDES;

- BC Box with Port Isolation • Control Panels • VRF Pump Down Packages
- Refrigerant Detection Solutions • Vertical Alteration to Ducted Units • Temperature and CO2 Sensors • Indoor Air Quality • Weather Proof Housing • Storage Vessels and Third Party Heating Products

SPEAK TO ONE OF OUR PROJECTS OFFICES TO DISCUSS THE FULL RANGE.

Our team work tirelessly on projects from design and quotation phase through to delivery, commissioning and after sales support. We welcome challenging projects and applications and we believe these are an opportunity to innovate and develop solutions. Let's start a new project together...

Contact one of our Project Teams today

www.k-con.co.uk

PROJECTS CONTACT DETAILS

SCOTLAND PROJECTS

Tel: 0345 034 4181

Email: scotlandprojects@kooltech.co.uk

NORTHERN PROJECTS

Tel: 0345 034 4182

Email: northernprojects@kooltech.co.uk

SOUTHERN PROJECTS

Tel: 0345 034 4183

Email: southernprojects@kooltech.co.uk



KOOLTECH, THE EXCLUSIVE DISTRIBUTOR OF MITSUBISHI ELECTRIC COOLING, HEATING AND VENTILATION EQUIPMENT...

We have over 25 years experience working with the market leading Mitsubishi Electric Product. We stock a wide range of Mitsubishi Electric equipment across our branch network, making the product very accessible. Whether you require M-Series, P-Series, VRF, Heat Pumps or Ventilation equipment we have a national team of applications engineers ready to support you with your kit or project enquiry and select the optimum solution.



ON THE SHELF

Kooltech have a large stock holding of Mitsubishi Electric equipment, ready for next day delivery or same day collection. Call your local branch for more information.

MITSUBISHI ELECTRIC SPARE PARTS

Kooltech supply a comprehensive range of Mitsubishi Electric spare parts.

- ✓ Most parts available on the shelf ready for dispatch
- ✓ Nationwide next day delivery (*Subject to location)
- ✓ Experienced technical team ready to deal with any spares enquiry

Call 0345 034 4188 for more info
or alternatively email your enquiry to: spares@kooltech.co.uk



KOOL TRUNK

KOOL TRUNK-PURE WHITE (RAL 9003)

A range of competitively priced quality trunking



TRUNKING - 2 METRE LENGTHS

Part No.	Dimensions W x H mm	Code
DUE 80W	80 x 60	20044150



UPPER CONNECTOR

Part No.	Dimensions W x H mm	Code
CSE 80W	80 x 60	20044152



WALL DUCT

Part No.	Dimensions W x H mm	Code
WDE 80W	80 x 60	20044153



INTERNAL ELBOW

Part No.	Dimensions W x H mm	Code
CBE 80W	80 x 60	20044154



EXTERNAL ELBOW

Part No.	Dimensions W x H mm	Code
EBE 80W	80 x 60	20044155



END COVER

Part No.	Dimensions W x H mm	Code
WTE 80W	80 x 60	20044156



FLAT BEND

Part No.	Dimensions W x H mm	Code
FBE 80W	80 x 60	20044157



WALL BEND

Part No.	Dimensions W x H mm	Code
WTE 80W	80 x 60	20044158



T JOINT

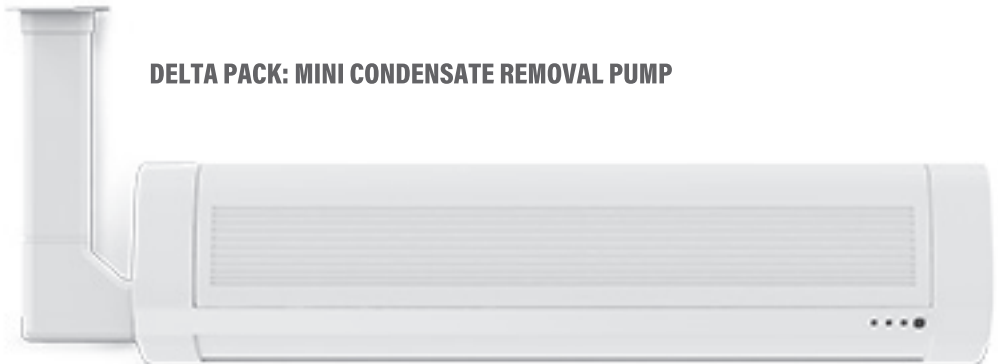
Part No.	Dimensions W x H mm	Code
TJE 80W	80 x 60	20044161



JOINT REDUCTION

Part No.	Dimensions W x H mm	Code
EFI 80W	80 x 60	20044162

All products on this page are compatible with Sauermann Delta Pack. (see page 17)



DELTA PACK: MINI CONDENSATE REMOVAL PUMP

INOAC TRUNKING

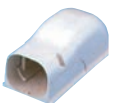
INOAC TRUNKING

Range of quality trunking



STRAIGHT DUCT

Part No	Size	Ivory Code	White Code
CD60	60mm	20042001	
CD75	75mm	20042002	20042060
CD100	100mm	20042003	20042130
CD140	140mm	20042004	



OUTLET COVER

Part No	Size	Ivory Code	White Code
NW60	60mm	20042031	
NW75	75mm	20042032	20042064
NW100	100mm	20042033	20042131
NW140	140mm	20042034	



HORIZONTAL ELBOW

Part No	Size	Ivory Code	White Code
NE60	60mm	20042005	
NE75	75mm	20042006	20042062
NE100	100mm	20042007	20042132
NE140	140mm	20042008	



VERTICAL ELBOW

Part No	Size	Ivory Code	White Code
NC60	60mm	20042009	
NC75	75mm	20042010	20042063
NC100	100mm	20042011	20042134
NC140	140mm	20042012	



SOCKET

Part No	Size	Ivory Code	White Code
NS60	60mm	20042013	
NS75	75mm	20042015	20042065
NS100	100mm	20042015	20042139
NS140	140mm	20042016	



FLEXIBLE JOINT

Part No	Size	Ivory Code	White Code
NF60	60mm	20042024	
NF75	75mm	20042025	20042091
NF100	100mm	20042026	20042135
NF140	140mm	20042027	



HORIZONTAL UNIVERSAL ELBOW

Part No	Size	Ivory Code	White Code
NX60	60mm	20042038	
NX75	75mm	20042039	20042066
NX100	100mm	20042040	20042142
NX140	140mm	20042041	



T JOINT

Part No	Size	Ivory Code	White Code
NT100	100mm	20042020	20042140
NT75	75mm	20042050	20042058



VERTICAL UNIVERSAL ELBOW

Part No	Size	Ivory Code	White Code
NZ60	60mm	20042045	
NZ75	75mm	20042046	20042092



END SOCKET

Part No	Size	Ivory Code	White Code
NR60	60mm	20042021	
NR75	75mm	20042022	20042067
NR100	100mm	20042023	20042138



HORIZONTAL ELBOW 45°

Part No	Size	Ivory Code	White Code
NM60	60mm	20042028	
NM75	75mm	20042029	20042059
NM100	100mm	20042030	20042137



VERTICAL ELBOW 45°

Part No	Size	Ivory Code	White Code
NU60	60mm	20042042	
NU75	75mm	20042043	20042068
NU100	100mm	20042044	20042141



CORNER CAP

Part No	Size	Ivory Code	White Code
NA60	60mm	20042035	
NA75	75mm	20042036	20042061
NA100	100mm	20042037	20042133



WALL CAP

Part No	Size	Ivory Code	White Code
NK60	60mm	20042017	
NK75	75mm	20042018	20042090
NK100	100mm	20042019	20042136

Call your local branch for more information.

INABA DENKO TRUNKING

INABA DENKO TRUNKING

Range of quality trunking



STRAIGHT DUCT

Part No	Size	White Code	Black Code
SD-75	75mm	20040005	20040070
SD-100	100mm	20040006	20040071



WALL COVER

Part No	Size	White Code	Black Code
SW-75	75mm	20040009	20040091
SW-100	100mm	20040010	20040092



90° HORIZONTAL ELBOW

Part No	Size	White Code	Black Code
SK-75	75mm	20040013	20040083
SK-100	100mm	20040014	20040084



90° VERTICAL ELBOW

Part No	Size	White Code	Black Code
SC-75	75mm	20040017	20040072
SC-100	100mm	20040018	20040073



STRAIGHT CONNECTOR

Part No	Size	White Code	Black Code
SI-75	75mm	20040027	20040081
SI-100	100mm	20040028	20040082



T JOINT

Part No	Size	White Code	Black Code
ST-75	75mm	20040022	20040089
ST-100	100mm	20040023	20040090



45° VERTICAL ELBOW

Part No	Size	White Code	Black Code
SCF-75	75mm	20040044	20040074
SCF-100	100mm	20040045	20040075



DUCT END

Part No	Size	White Code	Black Code
SEN-75	75mm	20040040	20040077
SEN-100	100mm	20040041	20040078



WALL CAP

Part No	Size	White Code	Black Code
SWC-75	75mm	20040048	20040093
SWC-100	100mm	20040049	20040094



45° HORIZONTAL ELBOW

Part No	Size	White Code	Black Code
SKF-75	75mm	20040051	20040085
SKF-100	100mm	20040052	20040086



CEILING COVER

Part No	Size	White Code	Black Code
SP-75	75mm	20040057	20040087
SP-100	100mm	20040058	20040088



FLEXIBLE CORNER

Part No	Size	White Code	Black Code
SF-75-100	75mmx500mm	20040035	20040079
SF-100-800	100mmx800mm	20040037	20040080



REDUCER

Part No	Size	White Code	Black Code
SDR-75-100	75mmx500mm	20040031	20040076



INABA DENKO
WALL ART
MAKE THAT STATEMENT



DIVERSiTECH
INTERNATIONAL

SPEEDICHANNEL TRUNKING



Range of quality trunking (also available in ivory)



STRAIGHT DUCT 2MTR

Part No	Size	Code
230-D3W	70mm	20040095
230-D4W	105mm	20040110



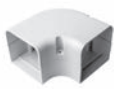
90° INSIDE ELBOW

Part No	Size	Code
230-EB3W	70mm	20040096
230-EB4W	105mm	20040111



90° OUTSIDE ELBOW

Part No	Size	Code
230-EIN3W	70mm	20040097
230-EIN4W	105mm	20040112



90° FLAT BEND

Part No	Size	Code
230-FB3W	70mm	20040098
230-FB4W	105mm	20040113



45° FLAT BEND

Part No	Size	Code
230-FB453W	70mm	20040099
230-FB454W	105mm	20040114



FLEXIBLE HOSE KIT

Part No	Size	Code
230-HF3W-KIT	70mm	20040101
230-AF4W-KIT	105mm	20040116



90° LONG FLAT ELBOW

Part No	Size	Code
230-LFB3W	70mm	20040102
230-LFB4W	105mm	20040118



DUCT CAP

Part No	Size	Code
230-D3W	70mm	20040095
230-D4W	105mm	20040110



DUCT END

Part No	Size	Code
230-DE3W	70mm	20040104
230-DE4W	105mm	20040120



FLAT ROSETTE

Part No	Size	Code
230-FR3W	70mm	20040105
230-FR4W	105mm	20040117



CONNECTION PIECE

Part No	Size	Code
230-CP3W	70mm	20040106
230-CP4W	105mm	20040121



SOFFIT INLET

Part No	Size	Code
230-SF3W	70mm	20040107
230-SF4W	105mm	20040124



WALL COVER

Part No	Size	Code
230-WC3W	70mm	20040108
230-WC4W	105mm	20040125



WALL ROSETTE

Part No	Size	Code
230-WR3W	70mm	20040109
230-WR4W	105mm	20040126



REDUCER JOINT

Part No	Size	Code
230-RJ4W	105mm	20040122



T JOINT

Part No	Size	Code
230-TJ4W	105mm	20040123

CONDENSING UNIT SECURITY CAGES & BRACKETS



These weather-resistant, steel mesh guards offer a safe solution to vandalism and accidental damage of AC unit or ASHP. The range is suitable for all manufacturers of air conditioning units.

- Unique sliding panel for easy installation
- Back panels are available to make the cage free standing
- For wall mounted units a base panel is available for full security



KOOL CAGE - CONDENSING UNIT CAGES

Complete Cage					Replacement Panel - Back	Replacement Panel - Base
Part No	Description	Ext Dims H x W x D mm	Int Dims H x W x D mm	Code	Code	Code
CG-S	Small	750 x 1050 x 460	720 x 1020 x 450	20015040	20015047	20015050
CG-M	Medium	1150 x 1150 x 650	1120 x 1120 x 640	20015041	20015048	20015051
CG-L	Large	1450 x 1150 x 650	1420 x 1120 x 640	20015042	20015049	20015052
CG-XL	Extra Large	1800 x 1100 x 650	1770 x 1120 x 640	20015043	20015061	20015053

VRF CAGES

A range of flat packed self assembly modular guards for VRF/VRV units. Aluminium support arms, perforated steel panels, RAL7032 textured powder coating. Simply add modular extension kits for multiple outdoor unit installations.



VRF CAGES

Description	Ext Dims H x W x D mm	Int Dims H x W x D mm	Code
CG-VRF-BP Base Pack	2000 x 1160 x 1200	1970 x 1130 x 1200	20020104
CG-VRF-EP6	2000 x 580 x 1200	1970 x 1200 (D)	20020105
CG-VRF-EP12	2000 x 1160 x 1200	1970 x 1200 (D)	20020106

MODULAR DIMENSIONS

Overall Dimensions			Order Requirements		
Height (mm)	Depth (mm)	Width (mm)	CG-V-BP	CG-V-EP6	CG-V-EP12
2000	1200	1160	1	0	0
2000	1200	1740	1	1	0
2000	1200	2320	1	0	1
2000	1200	2900	1	1	1
2000	1200	3480	1	0	2
2000	1200	4060	1	1	2
etc...					

For cantilever arms see page 23



BRACKETS

Description	Code
KOOLBRACK LARGE 140Kg	20015030
KOOLBRACK MED 140Kg under brackets	20025030
CBR2-S Type 2 80Kg Bracket	20030103
CBR2-M Type 2 90Kg Bracket	20030104
CBR2-L Type 2 140Kg Bracket	20030105
CBR2-XL Type 2 250Kg Bracket	20030159

CONDENSATE TRAYS

Size	Code
790 x 390 x 30 Plastic	20020120
940 x 420 x 30 Plastic	20020121
800 x 400 Steel	20020125
1100 x 400 Steel	20020126

FLEXI FRAME SUPPORT SYSTEMS



THESE BASE AND EXTENDER FRAMES ARE DESIGNED TO PROVIDE STABILITY AND SPREAD LOADS ACROSS FLAT ROOF SURFACES

- Features:**
- Quick and easy height adjustments
 - Fast and easy to install
 - Time and cost saving
 - Allows maintenance access under the equipment
 - No penetration of water proof membrane
 - Suitable for multiple ASHP installation on flat roofs

FLEXI FRAME BASE

Contents	Type	Part No.	Dimension (mm)	Max Height (mm)	Max Load (kg)	Frame Weight (Kg)
Feet, 2 x Box Section, 2 x Strut Beam with Clamps, Adjustable Leg Assy, Pre-assembled Bolts	Base Frame	20030174	1200 x 1200	300	500	30
	Extender Frame	20030175				24
	Base Frame	20030162	1500 x 1500			33
	Extender Frame	20030163				27



FLEXI FOOT (with strut)

The foot has 40mm x 20mm Galvanized steel channel bonded in, allowing fixing of the services resting across the feet. Made from durable recycled rubber, the feet provide in-built anti vibration. Can be used as an outdoor unit support foot.

Model	Size	Weight	Code
Small	L: 250mm x W: 185mm x H: 100mm	2.8Kg	20030120
Medium	L: 400mm x W: 185mm x H: 100mm	4.6Kg	20030122
Large	L: 600mm x W: 185mm x H: 100mm	7.6Kg	20030123
Extra Large	L: 1000mm x W: 185mm x H: 100mm	12.0Kg	20030124



H FRAME SET

Kit includes 2 x Square feet, fixings to suit (Strut not included)	Model	Feet Size	Load	Frame weight	Code
	Small	320mm x 320mm	250Kg	4Kg	20030199
	Large	500mm x 500mm	600Kg	6Kg	20030176

(See page 23 for steel channel details)



VIBRATION REDUCTION PADS

Description	Dimensions (L x W x H)	Code
Vibration Strip	1000mm x 75mm x 15mm	20020019
Vibration Strip	500mm x 500mm x 15mm	20020018



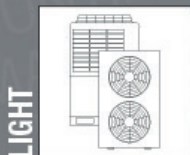
MOUNTING BLOCKS/PLYROCK

Description	Code
450mm	20042048
1000mm	20042049

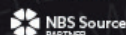
BESPOKE FRAMEWORK & WALKWAY SYSTEMS

In addition to the standard range of Flexi Foot, [kooltech](http://www.kooltech.co.uk) can assist in the design and selection of the correct components for any bespoke situation. Using your roof plan and with detail of the size and weight of your plant we will provide a fully detailed quotation.

■ FLEXI FRAMES—MODULAR, TWIN & QUAD FRAMES FOR ALL SYSTEMS



SUPPORT SYSTEMS





Delta Pack: HIGH PERFORMANCE AND EASY INSTALLATION

Pump in trunking system

80x60
mm

Large space
for tubing



Quick and easy
installation

22
dB(A)

Low operating
sound level
EN ISO 3744 tested



Patented
piston pump
technology

MAX FLOW RATE
20 L/h
(5 gph)

TANK & PERISTALTIC PUMPS

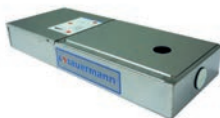
KOOLTANK with float and safety switch sensors

Model	Sensor	Tank Litre	Dimensions H x W x D mm	Max Discharge m	Max Suction m	Max Flow l/hr	Safety Switch	Code
KOOLTANK Ultimate 2ltr Condensate Tank Pump	Float & Safety Switch	2	480 x 321 x 332	5.4	-	700 l/hr	Yes	20015005

Kooltank



SI-1931



SI-60



sauermann®

SAUERMANN with run and safety switch

Model	Sensor	Tank Litre	Dimensions H x W x D mm	Max Discharge m	Max Suction m	Max Flow l/hr	Noise at 1m dB(A)	Safety Switch	Discharge Conn Size	Code
SI-60	Integral Float	0.5	88 x 168 x 90	14	-	20	38	Yes	6mm	20012033
SI-1830	Float & Safety Switch	1	105 x 230 x 105	4	-	400	38	Yes	6mm & 10mm	20012026
SI-1931	Integral Float	6.5	80 x 610 x 235	24	-	700	60	Yes	10mm	20012117



Hi-Lift



Hi-Flow



Heavy Duty



ERRP



Mini Tank



ASPEN with run and alarm floats sensors

Model	Sensor	Tank Litre	Dimensions H x W x D mm	Max Discharge m	Max Suction m	Max Flow l/hr	Noise at 1m dB(A)	Safety Switch	Discharge Conn Size	Code
Hi-Lift 1	Run & Alarm Floats	1	130 x 235 x 140	12	-	11	51	Yes	6mm	20010005
Hi-Lift 2	Run & Alarm Floats	2	170 x 235 x 140	12	-	11	51	Yes	6mm	20010006
Max Hi-Flow	Run & Alarm Floats	1.7	134 x 285 x 144	5	-	550	44	Yes	6mm & 10mm	20011050
Heavy Duty 6	Run & Alarm Floats	4	205 x 300 x 150	6	-	900	60	Yes	10mm	20010016
Heavy Duty 10	Run & Alarm Floats	4	265 x 300 x 150	10	-	1250	64	Yes	10mm	20010017
ERRP Low Profile*	Run & Alarm Floats		75 x 530 x 240	21	-	190	60	Yes	10mm	20010024
ERRP Top Inlet*	Run & Alarm Floats	11	100 x 585 x 400	35	-	225		Yes	10mm	20010033
Mini Tank	Run & Alarm Floats	0.24	70 x 180 x 90	10	-	24	34	Yes	6mm	20010032

*Top entry standard, side entry option available.



Peri Pro Air



Peri Pro+



ASPEN

Model	Sensor	Dimensions H x W x D mm	Max Discharge m	Max Suction m	Max Flow l/hr	Noise at 1m dB(A)	Safety Switch	Discharge Conn Size	Code
Peri Pro Air	Temperature	118x76x132	12	3	15	21	SA NC Relay	6mm	20010015
Peri Pro+	Comp Signal	118x76x133	12	3	15	21	SA NC Relay	6mm	20010126

MINI/IN LINE CONDENSATE PUMPS

SI-30



SI-10



Delta Pack



sauermann®

SAUERMANN

Model	Sensor	Dimensions H x W x D mm	Trunking H x W x D mm	Max Discharge m	Max Suction m	Max Flow l/hr	Noise at 1m dB(A)	Safety Switch	Discharge Conn Size	Code
SI-30 Detect Plus	Float/Safety Switch	60 x 66 x 44	-	14	3	20	20dBa	YES	6mm	20012032
SI-20 Piston Pump	Float/Safety Switch	37 x 136 x 38	-	14	3	20	22dBa	YES	6mm	20012114
SI-10 Universal	Float/Safety Switch	96 x 76 x 44	-	14	3	20	22dBa	YES	6mm	20012034
SI-10 Universal (Bag)	Float/Safety Switch	96 x 76 x 44	-	14	3	20	22dBa	YES	6mm	20012084
Delta Pack Pure White	Float/Safety Switch	Trunking White	80 x 60	14	N/A	20	22dBa	YES	6mm	20012115
Omega Pack	Float/Safety Switch	In Cover	68 x 326 x 58	14	N/A	20	22dBa	YES	6mm	20012039

ASPEN
PUMPS

S+ Mini Orange



S+ Mini Lime



S+ Mini Aqua



Mini Blanc



ASPEN

Model	Sensor	Dimensions H x W x D mm	Trunking H x W x D mm	Max Discharge m	Max Suction m	Max Flow l/hr	Noise at 1m dB(A)	Safety Switch	Discharge Conn Size	Code
Mini-Orange	Electronic Sensor	51 x 116 x 39	-	10	2	10	23	Yes	6mm	20010010
Maxi-Orange	Electronic Sensor	66 x 122 x 44	-	20	2	26	35	Yes	6mm	20010047
Mini Aqua	Electronic Sensor	28 x 165 x 28	-	8	1	10	23	Yes	6mm	20010021
Mini Blanc Deluxe	Electronic Sensor	115 x 183 x 55	-	10	n/a	12	21	Yes	6mm	20010048
S+ Mini Aqua Gen 5	Electronic	60 x 185 x 265	-	10	N/A	12	19*	YES	6	20010141
S+ Mini Orange Gen 5	Electronic	66 x 38 x 145	-	10	N/A	30	16*	YES	6	20010142
S+ Mini Lime Slimline P&P	Electronic	Ivory	50 x 80	15	N/A	40	16*	YES	6	20010150
S+ Mini Lime Slimline P&P	Electronic	White	50 x 80	15	N/A	40	16*	YES	6	20010156
S+ Mini Lime Kwik Fix APG P&P	Electronic	White	60 x 80	15	N/A	40	16*	YES	6	20010151
S+ Mini Lime Kwik Fix APG P&P	Electronic	Cream	60 x 80	15	N/A	40	16*	YES	6	20010152
S+ Mini Lime SpeediDuct (BBJ) P&P	Electronic	White	65 x 70	15	N/A	40	16*	YES	6	20010155
S+ Mini Lime Kwik Fix APG P&P	Electronic	Black	60 x 80	15	N/A	40	16*	YES	6	20010161
S+ Mini Lime Replacement P&P	Electronic	145 x 45 x 134	-	15	N/A	40	16*	YES	6	20010158

Mini Blue



Micro Blue



Maxi Blue



Mega Blue



BLUEDIAMOND.
CONDENSATE REMOVAL PUMPS

BLUE DIAMOND

Model	Sensor	Dimensions H x W x D mm	Max Discharge m	Max Suction m	Max Flow l/hr	Noise at 1m dB(A)	Safety Switch	Discharge Conn Size	Code
Mini Blue	Electronic	67 x 58 x 138	8	5	8	21	Yes	6mm	20013200
Mini Blue / Temp Sensor Pump	Electronic	68 x 58 x 138	8	5	8	21	Yes	6mm	20013201
Micro Blue with Reservoir (FSA Pack)	Electronic	40 x 37 x 150	5	2	5	17	Yes	6mm	20013211
Maxi Blue with Reservoir	Electronic	67 x 58 x 158	8	8	14	21	Yes	6mm	20013202
Maxi Blue / Temp Sensor Pump	Electronic	67 x 58 x 158	8	8	14	21	Yes	6mm	20013204
Maxi Blue with Drainstik Sensor	Electronic	68 x 58 x 158	8	8	14	21	Yes	6mm	20013205
Mega Blue with Reservoir	Electronic	69 x 58 x 234	20	7	50	23	Yes	6mm	20013206

SAUERMANN CONDENSATE PUMP ACCESSORIES



Description	Supplier Ref	Pack Size	Kooltech Code
6mm Straight Connector	ACC00900	5	20012101
6mm T Connector	ACC00902	5	20012051
6mm Straight Connectors & 6mm Elbows	ACC00904	5	20012046
6mm Condensate Self Sealing Discharge Adaptor	ACC00919	6	20012047
6mm Non Return Valve	ACC00924	5	20012060
10mm Straight Connector	ACC00901	5	20012102
10mm T Connector	ACC00903	5	20012120
10mm Elbow Connector	ACC00905	5	20012121
10mm Non Return Valve For Si 1805/Si 82/Si 1830/ Kooltanks	ACC00925	3	20012059
6mm - 10mm Straight Reducer	ACC00906	5	20012122
10mm - 20mm Reducer Adaptor	ACC00908	3	20012124
6mm Spring Clips For Clear Pvc Hose	ACC00912	25	20012104
10mm Spring Clips For Clear Pvc Hose	ACC00913	25	20012105
6mm Drain Safe Device	ACC00922	5	20012125
10mm Drain Safe Device	ACC00923	5	20012126
Reducer Connector 40/32/25mm to 21.5mm	ACC00927	5	20012127
Straight Connector	ACC00928	5	20012128
16mm Rubber Extention Pipe Length 500mm	ACC00931	1	20012041
16mm Rubber Elbow Connector Length 35mm x 35mm	ACC00932	3	20012048
16mm S Type Rubber Connector	ACC00933	3	20012049
16mm Rubber Elbow Connector Length 35mm x 142mm	ACC00934	3	20012129
25mm - 21.5mm Cassette Drain Adaptor	ACC00936	3	20012062
32mm - 21.5mm Cassette Drain Adaptor	ACC00937	3	20012063
40mm - 21.5mm Cassette Drain Adaptor	ACC00938	3	20012064
3 Mtr Extension Cable	ACC00942	1	20012058
5 Mtr Extension Cable	ACC00943	1	20012065



KOOL HOSE	
Description	Code
1/4" x 30m Clear Reinforced PVC Tube Braided	20015020
3/8" x 30m Clear Reinforced PVC Tube Braided	20015021
1/4" x 30m Black Reinforced PVC Tube Braided	20015022
3/8" x 30m Black Reinforced PVC Tube Braided	20015023
1/4" x 30m PVC Hose Non Braided Clear	20015018
3/8" x 30m PVC Hose Non Braided Clear	20014006

ABS SOLVENT DRAIN PIPE

FloPlast



3M PIPE			
Size mm	Code (White)	Code (Black)	
21.5 mm - 3/4"	20040300	20040400	
32 mm - 1.1/4"	20040301	20040390	
40 mm - 1.1/2"	20040302	20040410	



90 DEG ELBOW			
Size mm	Code (White)	Code (Black)	
21.5 mm - 3/4"	20040305	20040401	
32 mm - 1.1/4"	20040306	20040395	
40 mm - 1.1/2"	20040307	20040411	



TEE			
Size mm	Code (White)	Code (Black)	
21.5 mm - 3/4"	20040310	20040402	
32 mm - 1.1/4"	20040311	20040398	
40 mm - 1.1/2"	20040312	20040412	



REDUCERS			
Size mm	Code (White)	Code (Black)	
32 mm - 3/4"	20040320	20040396	
40 mm - 32mm	20040321	20040414	



PIPE CLIPS			
Size mm	Code (White)	Code (Black)	
21.5 mm - 3/4"	20040315	20040403	
32 mm - 1.1/4"	20040316	20040407	
40 mm - 1.1/2"	20040317	N/A	



STRAIGHT CONNECTORS			
Size mm	Code (White)	Code (Black)	
21.5 mm - 3/4"	20040330	20040404	
32 mm - 1.1/4"	20040331	20040399	
40 mm - 1.1/2"	20040332	20040413	



45 DEG ELBOW			
Size mm	Code (White)	Code (Black)	
21.5 mm - 3/4"	20040335	20040405	
32 mm - 1.1/4"	20040336	20040397	
40 mm - 1.1/2"	20040337	N/A	



TANK CONNECTOR			
Size mm	Code (White)	Code (Black)	
21.5 mm - 3/4"	20040340	20040406	
32 mm - 1.1/4"	20040341	N/A	
40 mm - 1.1/2"	20040342	N/A	



ACCESS PLUG			
Size mm	Code (White)	Code (Black)	
32 mm - 1.1/4"	20040345	20040417	
40 mm - 1.1/2"	20040346	20040416	



110mm STRAP BOSS (requires all 3 parts)			
Description	Code		
110mm Strap Boss	20040325		
40mm Rubber Boss Adaptor	20040326		
40mm - 21.5mm Rubber Reducer	20040327		

For 21.5mm condensate drain lines

Bottle Trap



Hepvo Trap



90 deg Knuckle

Running Adaptor



TRAPS & ACCESSORIES

Description	Code
Bottle Trap - 32mm - 1.1/4"	20040370
Bottle Trap - 40mm - 1.1/2"	20040371
Inline Trap - 32mm - 1.1/4"	20040442
Inline Trap - 40mm - 1.1/2"	20040443
32mm - 1.1/4" 90 deg knuckle	20040446
40mm - 1.1/2" 90 deg knuckle	20040448
32mm - 1.1/4" Running Adaptor	20040444
40mm - 1.1/2" Running Adaptor	20040445

ACCESSORIES

Description	Code
Solvent Cement 125ml	20040360
Solvent Cement 250ml	20040361
Cleaning Fluid 250ml	20040362
Aerosol Lubricant 400ml	20040363
Silicone Grease 100gm	20040364
Silicone Sealant Clear	40020344
Silicone Sealant White	40020339

90 deg knuckle enables Hepvo Trap to be fitted horizontally and connects plastic pipe to Trap.

Running adaptor connects plastic pipe to Hepvo Trap.

ELECTRICAL CABLE



SY BRAIDED INTERCONNECTING CABLE

Description	Code
1.5mm ² 3 core	20061135
1.5mm ² 4 core	20061136
1.5mm ² 4 core (Mitsubishi Colour Coded)	20061341
1.5mm ² 4 core (Black) UV LSOH	20061083
1.5mm ² 4 core (Black) UV PVC	20061090
1.5mm ² 5 core	20061137
2.5mm ² 3 core	20061140
2.5mm ² 4 core	20061141



NYT-TUFF CABLE/BLACK IMPACT RESISTANT INTERCONNECTING CABLE FOR MITSUBISHI ELECTRIC M&P SYSTEMS

Description	Code
1.5mm ² 3 core	20061150
1.5mm ² 4 core	20061151
2.5mm ² 3 core	20061155
2.5mm ² 4 core	20061156
4mm ² 3 core	20061160



FLEX
MAINS CABLE FOR INDOOR UNITS AND CONDENSATE PUMPS

Description	Code
0.75mm ² 2 core - White	20061230
0.75mm ² 3 core - White	20061231
0.75mm ² 4 core - White	20061232
1.5mm ² 3 core - White	20061236
1.5mm ² 4 core - White	20061237
2.5mm ² 3 core - White	20061241
2.5mm ² 4 core - White	20061242
0.75mm ² 2 core - Black	20061250
0.75mm ² 3 core - Black	20061251
0.75mm ² 4 core - Black	20061252
1.5mm ² 2 core - Black	20061255
1.5mm ² 3 core - Black	20061256
1.5mm ² 4 core - Black	20061257
2.5mm ² 3 core - Black	20061261
2.5mm ² 4 core - Black	20061262

FLEXISHIELD

Description	Code
1.5mm ² 3 Core + Earth	20061410
2.5mm ² 2 Core + Earth	20061411



CY SCREENED

Description	Code
0.75mm ² 2 core	20061165
0.75mm ² 3 core	20061166
1mm ² 2 core	20061170
1.5mm ² 2 core black	20061195
1.5mm ² 2 core	20061175
1.5mm ² 3 core	20061176
1.5mm ² 4 core	20061177

M-net cable for VRF communications cable

YY NON SCREENED MULTICORE
INTERCONNECTING FOR M&P SYSTEMS

Description	Code
0.75mm ² 2 core	20061200
0.75mm ² 3 core	20061201
0.75mm ² 4 core	20061202
1mm ² 2 core	20061205
1.5mm ² 2 core	20061210
1.5mm ² 3 core	20061211
1.5mm ² 4 core	20061212
1.5mm ² 5 core	20061213

All cable sold in 100 metre rolls.

Low Smoke Cable also available please ask your local Kooltech branch.



TERMINALS (BAGGED 100)

Description	Code
6.5mm Ring Red	20061566
8.5mm Ring Blue	20061570
8.5mm Ring Yellow	20061571
6.3mm Push On Red	20061580
6.3mm Push On Blue	20061581

H07RN-F FLEXIBLE TOUGH RUBBER CABLE

Description	Code
1.5mm ² 3 Core Black	20061420
1.5mm ² 4 Core Black	20061421
2.5mm ² 4 Core Black	20061422
2.5mm ² 3 Core Black	20061425
4mm ² 3 Core Black	20061426

ELECTRICAL CABLE & ANCILLARIES



ISOLATORS

Description	Code
Plastic Waterproof with Lock-Off, Outdoor use IP65.	
20 Amp 4 Pole	20061500
32 Amp 4 Pole	20061501
63 Amp 4 pole	20061502
Metal Clad Isolators. Indoor use.	
13 Amp fused spur neon 2 Pole	20061006
13 Amp switched fused spur	20061530
White Plastic Isolators. Indoor use	
13 Amp switched fused spur	20061540
13 Amp switched fused spur with neon	20061541
20 Amp 2 Pole	20061007
6 Amp 3 Pole	20061012
25mm Pattress for above	20061009
45mm Pattress Box	20061542
Junction Boxes IP22 Seal Range 2 - 16mm	
88 x 88 x 53 - 5 pole	20061520
100 x 100 x 50 - 10 pole	20061521



NYLON GLANDS

Description	Code
M20 small for cable 7-10.5mm white (10 pk)	20061032
M20 small for cable 7-10.5mm black (10 pk)	20061034
M20 large for cable 10-13mm white (10 pk)	20061045
M20 large for cable 10-13mm black (10 pk)	20061046
M25 for cable 13-18mm white (10 pk)	20061047
M25 for cable 13-18mm black (10 pk)	20061048



BRASS GLANDS

Description	Code
Brass Gland for SV1.5mm - 2.5mm 3/4 core (10 pk)	20061110



ACCESSORIES

Description	Code
Electrical Connectors	
5 Amp (10 pk)	20061020
15 Amp (10 pk)	20061021
30 Amp (10 pk)	20061022
Insulation Tape	
Black	20065443
Blue	20065464
Green/Yellow	20065466
Brown	20065483
Red	20065465
White	20065482



ELECTRICAL TOOLS

Description	Code
Crimping Tool	20061800
Junior Hacksaw	20061801
Wire Strippers	20061802
Wire Cutter	20061803
Pliers	
Pliers 180mm Combination	20061804
Pliers 200mm Combination	20061805
Screw Drivers	
8 Piece Screwdriver Set	20061809
Screwdriver 140mm Neon Mains Tester	20061808

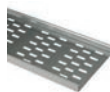
CABLE TIES

Part	Code
12" X 300mm White Cable Ties (100pk)	20060301
Big Ties White BT-300 (10pk)	20040054
Big Ties Black BT-300 (10pk)	20040060

CABLE TRAY & ACCESSORIES

CABLE TRAY

A range of cable and pipe support trays and accessories



CABLE TRAY 3 Metre Lengths

Medium Duty		
Size mm	Part	Code
50	MDT2	20062038
75	MDT3	20062039
100	MDT4	20062040
150	MDT6	20062041
225	MDT9	20062042
300	MDT12	20062043
450	MDT18	20062044
600	MDT24	20062037
750	MDT30	20062036
900	MDT36	20062035



FLAT EQUAL TEE

Medium Duty 90 Degree		
Size mm	Part	Code
100mm	MDET4	20062192
150mm	MDET6	20062193
225mm	MDET9	20062194
300mm	MDET12	20062195
450mm	MDET18	20062196
600mm	MDET24	20062197
750mm	MDET30	20062198
900mm	MDET36	20062199



WRAP AROUND COUPLER

Length mm	Code
225	20062220

Sold in pairs



ADJUSTABLE RISER

Medium Duty - Universal Riser		
Size mm	Part	Code
50	MDR2	20060210
75	MDR3	20060211
100	MDR4	20060212
150	MDR6	20060213
225	MDR9	20060214
300	MDR12	20060215
450	MDR18	20060216
600	MDR24	20060217



FLAT BEND

Medium Duty 90 Degree		Medium Duty 45 Degree	
Size mm	Code	Size mm	Code
50	20060170	50	20060180
75	20060171	75	20060181
100	20060172	100	20060182
150	20060173	150	20060183
225	20060174	225	20060184
300	20060175	300	20060185
450	20060176	450	20060186
600	20060177	600	20060187



CABLE TRAY HANGARS

Length mm	Part	Code
100	ATH4	20060255
150	ATH6	20060256
225	ATH9	20060257
300	ATH12	20060258

KLIP style



STAND OFF BRACKET

Length mm	Part	Code
110-150 Adjustable	100-150 SOB	20060165
75	AEI33	20060421
100	AEI34	20060422
150	AEI35	20060423
225	AEI36	20060424
300	AEI37	20060425
450	AEI38	20060426

BASKET TRAY & INSTALLATION CHANNELS

BASKET TRAY & ACCESSORIES

A range of basket trays and accessories



BASKET TRAY	
Size mm	Code
65 x 50	20062139
65 x 100	20062140
65 x 150	20062141
65 x 200	20062142
65 x 300	20062143
65 x 400	20062144

3 Metre lengths



BASKET COUPLERS	
Part	Code
Rapid Basket Coupler ABQFC	20062535
ABCA Nut, Bolt, Clamp Assy	20062152

3 Metre lengths

BASKET ACCESSORIES	
Part	Code
ABSH Central Hanger 10mm	90014217
AQFHDC Fastfix Strut Clip	20062151
ABHDC Basket Hold Down Clamp	20062153

INSTALLATION CHANNELS

A range of cable and pipe support trays and accessories



CHANNEL - 3 METRE LENGTHS			
Size mm	Gauge mm	Type	Code
41 x 41	1.5	Slotted	20060048
41 x 21	1.5	Slotted	20060049

Light



END CAPS	
Type	Code
41mm Black	20060055
21mm Black	20060056
41mm White	20060057
21mm White	20060058



CHANNEL - 3 METRE LENGTHS			
Size mm	Gauge mm	Type	Code
41 x 41	2.5	Plain	20060050
41 x 41	2.5	Slotted	20060051
41 x 21	2.5	Plain	20060052
41 x 21	2.5	Slotted	20060053

Medium Also available in 6 metre



CANTILEVER ARMS		
Size mm	Gauge mm	Code
150mm x 41mm	41/41 D 2.5 S	20060060
300mm x 41mm	41/41 D 2.5 S	20060061
450mm x 41mm	41/41 D 2.5 S	20060062
600mm x 41mm	41/41 D 2.5 S	20060063
750mm x 41mm	41/41 D 2.5 S	20060064
600mm x 600mm	41/82 D 2.5 S	20060390



CHANNEL NUTS			
Size mm	Channel Size	Type	Code
M6	All	Plain	20060070
M8	All	Plain	20060071
M10	All	Plain	20060072
M12	All	Plain	20060073
M6-L	41 x 41	Sprung	20060074
M8-L	41 x 41	Sprung	20060075
M10-L	41 x 41	Sprung	20060076
M12-L	41 x 41	Sprung	20060077
M6-S	41 x 21	Sprung	20060078
M8-S	41 x 21	Sprung	20060079
M10-S	41 x 21	Sprung	20060080
M12-S	41 x 21	Sprung	20060081



THREADED ROD	
Size mm	Code
M6	20060065
M8	20060066
M10	20060067
M12	20060068

3 Metre lengths

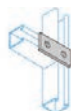


ROOFING BOLTS		
Size mm	Length mm	Code
M6	16	20060103
M6	20	20060104
M6	25	20060105
M6	40	20060106
M6	60	20060107

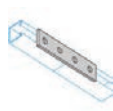
INSTALLATION FITTINGS

INSTALLATION FITTINGS

A range of cable and pipe support trays and accessories



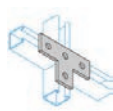
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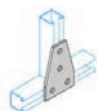
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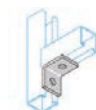
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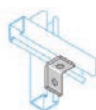
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20060234



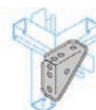
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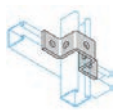
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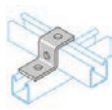
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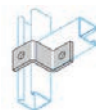
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20060260



20060261



20060262



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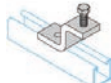
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20060274



20060280



20060281



20060282



20060283



20060284



FLAT FITTINGS

Part	Code
2 Hole Straight Fitting HG AE1092	20060230
3 Hole Straight Fitting HG AE1093	20060231
4 Hole Straight Fitting HG AE1094	20060232
Flat Tee Fitting Hg AE107	20060233
4 Hole Right Angle Bracket - P1359	20060234

ANGLE FITTINGS

Part	Code
90deg Angle Fitting HG 1+1 Hole AE101	20060240
90deg Fitting Hg Equal 1+1 Hole AE102	20060241
90deg Fitting Hg 2X1 Hole AE103	20060242
90deg Fitting Hg 2X2 Hole AE104	20060243
90deg Gusset Fitting 2X2 Hole - AE124	20060244

U & Z FITTINGS

Part	Code
3 Hole Shallow U Fitting - P4047	20060260
2 Hole Shallow Z Fitting	20060261
2 Hole Deep Z Fitting (AE126)	20060262

CHANNEL BASE & WING FITTINGS

Part	Code
Single Channel Base Plate AE113	20060270
2+6 Hole Wing Fitting - AE121	20060271
2+2 Hole 90Deg Branch	20060274

BEAM CLAMPS

Part	Code
APC 11mm Purlin Clamp	20060280
Universal Beam Clamp 13 HG - 325AP11	20060281
Universal Beam Clamp 22 HG - P2489HG	20060282
21mm	20060400
41mm	20060401

GIRDER "G" CLAMPS

Part	Code
M8	20050037
M10	20050021

ACCESSORIES & FASTENERS



SET PINS, NUTS & WASHERS

Size mm	Code
M8 x 25mm Set Pin	20060330
M8 x 40mm Set Pin	20060331
M10 x 25mm Set Pin	20060332
M10 x 40mm Set Pin	20060333
M6 - 25mm Washers	20060090
M6 - 32mm Washers	20060091
M8 - 25mm Washers	20060092
M8 - 32mm Washers	20060093
M10 - 25mm Washers	20060094
M10 - 32mm Washers	20060095
M6 - Hexagonal Nut	20060096
M8 - Hexagonal Nut	20060097
M10 - Hexagonal Nut	20060098
M12 - Hexagonal Nut	20060099



SQUARE WASHERS 40 X 40 SQ

Type	Code
M6 & M8	20060100
M10 & M12	20060101



WEDGE NUTS

Size mm	Code
M6	20060225
M8	20060226
M10	20060227

BOLTS

Description	Code
M8 x 40 SNZP	20050008
M8 x 100 SNZP	20050009
M10 x 40 SNZP	20050010
M10 x 100 SNZP	20050011



SOCKET BOLT

Description	Code
XSBI0 Socket Bolt (FIT M8/M10 ROD)	20062606



RAWLBOLTS

Description	Code
M8 X 10L	20060363
M10 X 10L	20060364

PLUGS AND SCREWS

Size mm	Code
Red Plugs - 100pk	20060370
Brown Plugs - 100pk	20060371
1"X8 Twinstart Screws - 200pk	20060372
1.1/2"X8 Twinstart Screws-200pk	20060373
1.3/4"X8 Twinstart Screws-200pk	20060374
1.1/4"X10 Twinstart Screw-200pk	20060377
1.1/2"X10 Twinstart Screw-200pk	20060378
2"X10 Twinstart Screws - 200pk	20060379



DROP IN ANCHORS

Description	Code
M6	20060160
M8	20060161
M10	20060162



ROD CONNECTORS

Description	Code
M8	20060117
M10	20060118



TI-JI ROD HANGERS

Description	Code
M8	20062532
M10	20062533



UNLINED PIPE CLIPS

Description	Code
3/4" M8/M10	20062560
1.1/4" M8/M10	20062561
1.1/2" M8/M10	20062562



ROD END CAPS

Description	Code
M8	20060121
M10	20060122



SELF DRILLING SCREW

Description	Code
5.5 X 25MM	20060341
5.5 X 32MM	20060342
5.5 X 50	20060343

PORTABLE AIR CONDITIONING



PORTABLE AIR CONDITIONING

The portable air conditioning units are suitable for offices, computer rooms and light commercial use. The cooling only model is ideal for cooling flats, conservatories or loft conversions during hot summer months. The heat pump model can also be used as an energy efficient form of heating during cold winter months.

Features:

- Meets EN14511 standard and EU Commission regulation 206/2012
- Proven well tested design
- LED display and remote control (both models)
- Flexible exhaust hose - 1.5m (both models)
- Energy efficient rating A
- Suitable for areas up to 26m²
- No Pump Required - Self evaporating condensate, hose needs connecting when in heat-only mode
- R410a Refrigerant
- 1 Year Manufacturers Warranty



PORTABLE AIR CONDITIONING

Model	Description	Capacity Cool	Capacity Heat	Watts	Cooling Area	Weight	Dimensions HxWxD	Code
PAC-C-12	Cooling Only	3.5kw	N/A	1350w	18-26m ²	34kg	765 x 467 x 397	10130035
PAC-H-12	Heat & Cool	3.5kw	2.9kw	1350w	18-26m ²	37.5kg	766 x 467 x 397	10130036

For spare parts please contact sales@kooltech.co.uk or your local branch.

PORTABLES PORTABLE AC UNITS



- Suitable for offices, flats, loft conversions conservatories, and computer rooms



COPPER TUBE, PIPE INSULATION, COPPER FITTINGS & PIPE CLAMPS



REFRIGERATION COPPER TUBE



COPPER SOFT TEMPERED COIL

Size	Length	Gauge	Code
1/4"	15	22	30010080
1/4"	30	22	30010081
3/8"	15	21	30010082
3/8"	30	21	30010083
1/2"	15	21	30010084
1/2"	30	21	30010085
5/8"	15	20	30010086
5/8"	30	20	30010087
3/4"	15	19	30010088
3/4"	30	19	30010089
7/8"	15	19	30010090
7/8"	30	19	30010091

PRESSURE ALLOWANCE

Copper Coils	Wall	20-100°C		100°C +	
		Bar	N/mm 2	Bar	N/mm 2
(1/4" x 22swg)	0.71	125.9	200	100.7	40
(1/4" x 20swg)	0.91	167.3	200	133.8	40
(3/8" x 22swg)	0.71	125.9	200	100.7	40
(3/8" x 21swg)	0.81	93.0	200	74.4	40
(3/8" x 20swg)	0.91	105.7	200	84.6	40
(1/2" x 21swg)	0.91	77.2	200	61.7	40
(1/2" x 20swg)	0.91	77.2	200	61.7	40
(5/8" x 20swg)	0.91	60.8	200	48.7	40
(3/4" x 20swg)	0.91	50.2	200	40.1	40
(3/4" x 19swg)	1.016	56.3	200	45.1	40
(7/8" x 19swg)	1.02	47.9	200	38.3	40



Proper in Copper

Lawton Tubes supply sustainable air conditioning products.
Our range focuses on quality and our service is industry-leading.



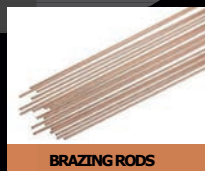
STRAIGHT LENGTHS



COILS



FITTINGS



BRAZING RODS

REFRIGERATION COPPER TUBE



HALF HARD COPPER STRAIGHT LENGTHS

Size	Length	Gauge	Code
3/8"	3	21	30010020
3/8"	6	21	30010050
1/2"	3	20	30010021
1/2"	6	20	30010051
5/8"	3	20	30010022
5/8"	6	20	30010052
3/4"	3	19	30010035
3/4"	6	19	30010064
7/8"	3	18	30010024
7/8"	6	18	30010054
1 1/8"	3	18	30010025
1 1/8"	6	18	30010055
1 1/8"	3	16	30010036
1 1/8"	6	16	30010065
1 3/8"	3	18	30010026
1 3/8"	6	18	30010056
1 3/8"	3	16	30010037
1 3/8"	6	16	30010066
1 5/8"	3	18	30010048
1 5/8"	6	18	30010049
1 5/8"	3	16	30010027
1 5/8"	6	16	30010057
2 1/8"	3	18	30010028
2 1/8"	6	18	30010058
2 1/8"	3	16	30010038
2 1/8"	6	16	30010067
2 5/8"	3	18	30010029
2 5/8"	6	18	30010069
3 1/8"	3	16	30010030
3 1/8"	6	16	30010060
3 5/8"	3	16	30010031
3 5/8"	6	16	30010061
4 1/8"	3	16	30010062
4 1/8"	6	16	30010062

R410A/R32 - Please note installations of 1 5/8" and larger 16g should be installed in accordance to EN14276

PRESSURE ALLOWANCE

		20-100°C		100°C +	
Copper Coils	Wall	Bar	N/mm 2	Bar	N/mm 2
(3/8" x 21swg)	0.81	93.0	200	74.4	40
(3/8" x 20swg)	0.91	105.7	200	84.6	40
(1/2" x 20swg)	0.91	77.2	200	61.7	40
(5/8" x 20swg)	0.91	60.8	200	48.7	40
(3/4" x 20swg)	0.91	50.2	200	40.1	40
(3/4" x 19swg)	1.02	56.3	200	45.1	40
(3/4" x 18swg)	1.22	68.4	200	54.7	40
(7/8" x 19swg)	1.02	47.9	200	38.3	40
(7/8" x 18swg)	1.22	58.1	200	46.5	40
(1 1/8" x 18swg)	1.22	44.6	200	35.7	40
(1 1/8" x 16swg)	1.63	60.3	200	48.2	40
(1 3/8" x 14swg)	2	60.8	200	48.60	40
(1 3/8" x 12swg)	2.5	77.1	200	61.70	40
(1 3/8" x 16swg)	1.22	36.2	200	29.0	40
(1 3/8" x 18swg)	1.4	41.7	200	33.3	40
(1 3/8" x 16swg)	1.63	48.8	200	39.0	40
(1 5/8" x 18swg)	1.22	30.5	200	24.4	40
(1 5/8" x 16swg)	1.63	41.0	200	32.8	40
(1 5/8" x 14swg)	2	50.9	200	40.70	40
(1 5/8" x 12swg)	2.5	64.5	200	51.60	40
(2 1/8" x 18swg)	1.22	23.1	200	18.5	40
(2 1/8" x 16swg)	1.63	31.0	200	24.8	40
(2 1/8" x 14swg)	2	38.5	200	30.8	40
(2 5/8" x 18swg)	1.22	18.6	200	14.9	40
(2 5/8" x 16swg)	1.63	25.0	200	20.0	40
(2 5/8" x 14swg)	2	30.9	200	24.7	40
(2 5/8" x 12swg)	2.5	39.0	200	31.2	40
(3 1/8" x 18swg)	1.22	15.6	200	12.5	40
(3 1/8" x 16swg)	1.63	20.9	200	16.7	40
(3 1/8" x 14swg)	2	25.8	200	20.7	40
(3 1/8" x 12swg)	2.5	32.5	200	26.0	40
(3 5/8" x 18swg)	1.22	13.4	200	10.7	40
(3 5/8" x 16swg)	1.63	18.0	200	14.4	40
(3 5/8" x 14swg)	2	22.2	200	17.8	40
(3 5/8" x 12swg)	2.5	27.9	200	22.3	40
(4 1/8" x 18swg)	1.22	11.8	200	9.4	40
(4 1/8" x 16swg)	1.63	15.8	200	12.6	40
(4 1/8" x 14swg)	2	19.5	200	15.6	40
(4 1/8" x 12swg)	2.5	24.4	200	19.6	40

BRAZING RODS

Description	Quantity	Code
0.2 AG 2mm	1 Kg	80060030

KAIMANN CLASS 'O' PIPE INSULATION



kaiflex ST



3/8" WALL - 2 METRE LENGTH

Size	Wall x o.d	Code
9 - 6 - 2	3/8" x 1/4"	30030210
9 - 10 - 2	3/8" x 3/8"	30030211
9 - 12 - 2	3/8" x 1/2"	30030212
9 - 15 - 2	3/8" x 5/8"	30030213
9 - 20 - 2	3/8" x 3/4"	30030214
9 - 22 - 2	3/8" x 7/8"	30030215
9 - 28 - 2	3/8" x 1 1/8"	30030216
9 - 35 - 2	3/8" x 1 3/8"	30030217
9 - 42 - 2	3/8" x 1 5/8"	30030218
9 - 54 - 2	3/8" x 2 1/8"	30030219

1/2" WALL - 2 METRE LENGTH

Size	Wall x o.d	Code
13 - 6 - 2	1/2" x 1/4"	30030230
13 - 10 - 2	1/2" x 3/8"	30030231
13 - 12 - 2	1/2" x 1/2"	30030232
13 - 15 - 2	1/2" x 5/8"	30030233
13 - 20 - 2	1/2" x 3/4"	30030234
13 - 22 - 2	1/2" x 7/8"	30030235
13 - 28 - 2	1/2" x 1 1/8"	30030236
13 - 35 - 2	1/2" x 1 3/8"	30030237
13 - 42 - 2	1/2" x 1 5/8"	30030238
13 - 54 - 2	1/2" x 2 1/8"	30030239
13 - 67 - 2	1/2" x 2 5/8"	30030240

3/4" WALL - 2 METRE LENGTH

Size	Wall x o.d	Code
19 - 10 - 2	3/4" x 3/8"	30030250
19 - 12 - 2	3/4" x 1/2"	30030251
19 - 15 - 2	3/4" x 5/8"	30030252
19 - 20 - 2	3/4" x 3/4"	30030253
19 - 22 - 2	3/4" x 7/8"	30030254
19 - 28 - 2	3/4" x 1 1/8"	30030255
19 - 35 - 2	3/4" x 1 3/8"	30030256
19 - 42 - 2	3/4" x 1 5/8"	30030257
19 - 54 - 2	3/4" x 2 1/8"	30030258
19 - 67 - 2	3/4" x 2 5/8"	30030259

1" WALL - 2 METRE LENGTH

Size	Wall x o.d	Code
25 - 20 - 2	1" x 3/4"	30030271
25 - 22 - 2	1" x 7/8"	30030272
25 - 28 - 2	1" x 1 1/8"	30030273
25 - 35 - 2	1" x 1 3/8"	30030274
25 - 42 - 2	1" x 1 5/8"	30030275
25 - 54 - 2	1" x 2 1/8"	30030276
25 - 67 - 2	1" x 2 5/8"	30030277

3/8" WALL - COILED PIPE INSULATION

Size	Wall x o.d	Length	Code
9 - 6 - 40	3/8" x 1/4"	40	30030300
9 - 10 - 34	3/8" x 3/8"	34	30030301
9 - 12 - 31	3/8" x 1/2"	31	30030302
9 - 15 - 27	3/8" x 5/8"	27	30030303
9 - 20 - 23	3/8" x 3/4"	23	30030304
9 - 22 - 19	3/8" x 7/8"	19	30030305
9 - 28 - 14	3/8" x 1 1/8"	14	30030306

1/2" WALL - COILED PIPE INSULATION

Size	Wall x o.d	Length	Code
13 - 6 - 26	1/2" x 1/4"	26	30030310
13 - 10 - 23	1/2" x 3/8"	23	30030311
13 - 12 - 18	1/2" x 1/2"	18	30030312
13 - 15 - 17	1/2" x 5/8"	17	30030313
13 - 20 - 15	1/2" x 3/4"	15	30030314
13 - 22 - 14	1/2" x 7/8"	14	30030315
13 - 28 - 10	1/2" x 1 1/8"	10	30030316

KAIKIFLEX ST COILED PIPE INSULATION 15 METRE LENGTHS - BAGGED

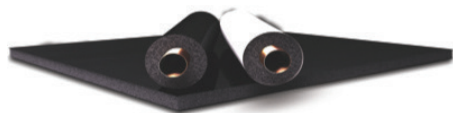
Size	Wall x o.d	Length	Code
9 - 6 - 15	3/8" x 1/4"	15	30030360
9 - 10 - 15	3/8" x 3/8"	15	30030361
9 - 12 - 15	3/8" x 1/2"	15	30030362
9 - 15 - 15	3/8" x 5/8"	15	30030363
9 - 20 - 15	3/8" x 3/4"	15	30030364
9 - 22 - 15	3/8" x 7/8"	15	30030365
9 - 28 - 15	3/8" x 1 1/8"	15	30030366
13 - 6 - 15	1/2" x 1/4"	15	30030370
13 - 10 - 15	1/2" x 3/8"	15	30030371
13 - 12 - 15	1/2" x 1/2"	15	30030372
13 - 15 - 15	1/2" x 5/8"	15	30030373
13 - 20 - 15	1/2" x 3/4"	15	30030374
13 - 22 - 15	1/2" x 7/8"	15	30030375
13 - 28 - 15	1/2" x 1 1/8"	15	30030376

KAIKIFLEX ST SHEET

Size	Thickness	Code
2m x 1/2m x 13mm	1/2"	30030106
2m x 1/2m x 25mm	1"	30030108

KAIMANN TC & EPDM PIPE INSULATION

Kaiflex Protect TC



KAIMANN TC PIPE INSULATION

Nitrile rubber insulation with a tough PVC coating pre-applied. KAIFLEX TC prevents energy loss and condensation whilst providing the waterproof rubber foam insulation with protection against the weather, impact, vandalism and UV damage. Supplied black as standard, white available to special order.

1/2" WALL - 1 METRE LENGTH

Size	Wall x o.d	Code
13 - 10 - 1	1/2" x 3/8"	30030700
13 - 12 - 1	1/2" x 1/2"	30030701
13 - 15 - 1	1/2" x 5/8"	30030702
13 - 20 - 1	1/2" x 3/4"	30030703
13 - 22 - 1	1/2" x 7/8"	30030704
13 - 28 - 1	1/2" x 1.1/8"	30030705
13 - 35 - 1	1/2" x 1.3/8"	30030706
13 - 42 - 1	1/2" x 1.5/8"	30030707
13 - 54 - 1	1/2" x 2.1/8"	30030709
13 - 67 - 1	1/2" x 2.5/8"	30030711

3/4" WALL - 1 METRE LENGTH

Size	Wall x o.d	Code
19 - 12 - 1	3/4" x 1/2"	30030720
19 - 15 - 1	3/4" x 5/8"	30030721
19 - 20 - 1	3/4" x 3/4"	30030722
19 - 22 - 1	3/4" x 7/8"	30030723
19 - 28 - 1	3/4" x 1.1/8"	30030724
19 - 35 - 1	3/4" x 1.3/8"	30030725
19 - 42 - 1	3/4" x 1.5/8"	30030726
19 - 54 - 1	3/4" x 2.1/8"	30030728
19 - 67 - 1	3/4" x 2.5/8"	30030730
19 - 80 - 1	3/4" x 3.1/8"	30030731

1" WALL - 1 METRE LENGTH

Size	Wall x o.d	Code
25 - 12 - 1	1" x 1/2"	30030740
25 - 15 - 1	1" x 5/8"	30030741
25 - 20 - 1	1" x 3/4"	30030742
25 - 22 - 1	1" x 7/8"	30030743
25 - 28 - 1	1" x 1.1/8"	30030744
25 - 35 - 1	1" x 1.3/8"	30030745
25 - 42 - 1	1" x 1.5/8"	30030746
25 - 54 - 1	1" x 2.1/8"	30030748

Kaiflex EPDMplus



KAIMANN EPDM PLUS INSULATION

Designed to resist high temperatures and UV radiation. EPDM rubber is durable, high temperature and UV resistant, making Kaiflex EPDM appropriate for use on outdoor split air-conditioning and solar hot water pipes which operate at temperatures that melt conventional domestic pipe insulation.

KAIFLEX EPDM PLUS - 2 METRE LENGTH

Size	Wall x o.d	Code
13 - 10 - 2	1/2" x 3/8"	30033100
13 - 12 - 2	1/2" x 1/2"	30033101
13 - 15 - 2	1/2" x 5/8"	30033102
13 - 22 - 2	1/2" x 7/8"	30033104
13 - 28 - 2	1/2" x 1.1/8"	30033105
13 - 35 - 2	1/2" x 1.3/8"	30033106
13 - 42 - 2	1/2" x 1.5/8"	30033107
25 - 12 - 2	1" x 1/2"	30033141
25 - 15 - 2	1" x 5/8"	30033142
25 - 18 - 2	1" x 18mm	30033143
25 - 22 - 2	1" x 7/8"	30033144
25 - 28 - 2	1" x 1.1/8"	30033145
25 - 35 - 2	1" x 1.3/8"	30033146



KAIMANN ACCESSORIES

Description	Code
Kaimann Class "0" Tape 15 Metre	30030330
Adhesive 220g	30030331
Black Paint	0.75 Litre
25m Black Tape Kaiflex Tc-Tape	30030790
50m Black Tape Kaiflex Tc-Tape	30030791
25m White Tape Kaiflex Tc-Tape	30030792
50m White Tape Kaiflex Tc-Tape	30030793
15m - Kaiflex Epdm - Tape	30033167

COPPER PRESS FITTINGS



Innovative press system for Air Conditioning and Refrigeration applications



90 DEGREE BEND

Size	Quantity	Code
1/4"	(5 Pack)	30300607
3/8"	(5 Pack)	30300608
1/2"	(3 Pack)	30300609
5/8"	(3 Pack)	30300610
3/4"	(3 Pack)	30300611
7/8"	(2 Pack)	30300612
1.1/8"	(2 Pack)	30300613
1.3/8"	(1 Pack)	30300701



90 DEGREE STREET BEND

Size	Quantity	Code
3/8"	(3 Pack)	30300614
1/2"	(3 Pack)	30300615
5/8"	(3 Pack)	30300616
3/4"	(3 Pack)	30300617
7/8"	(3 Pack)	30300618
1"	(2 Pack)	30300619
1.1/8"	(2 Pack)	30300620
1.3/8"	(1 Pack)	30300702



STRAIGHT COUPLERS

Size	Quantity	Code
1/4"	(5 Pack)	30300600
3/8"	(5 Pack)	30300601
1/2"	(5 Pack)	30300602
5/8"	(5 Pack)	30300603
3/4"	(2 Pack)	30300604
7/8"	(2 Pack)	30300605
1.1/8"	(2 Pack)	30300606
1.3/8"	(2 Pack)	30300700

EQUAL TEES

Size	Quantity	Code
1/4"	(3 Pack)	30300621
3/8"	(3 Pack)	30300622
1/2"	(3 Pack)	30300623
5/8"	(1 Pack)	30300624
3/4"	(2 Pack)	30300625
7/8"	(2 Pack)	30300626
1"	(1 Pack)	30300627
1.1/8"	(1 Pack)	30300628
1.3/8"	(1 Pack)	30300703



FITTING REDUCER

Size	Quantity	Code
3/8" x 1/4"	(2 Pack)	30300641
1/2" x 3/8"	(2 Pack)	30300642
5/8" x 3/8"	(2 Pack)	30300643
5/8" x 1/2"	(2 Pack)	30300644
3/4" x 1/2"	(2 Pack)	30300645
3/4" x 5/8"	(2 Pack)	30300646
7/8" x 1/2"	(2 Pack)	30300647
7/8" x 5/8"	(2 Pack)	30300648
7/8" x 3/4"	(2 Pack)	30300649
1.1/8" x 1/2"	(1 Pack)	30300650
1.1/8" x 5/8"	(1 Pack)	30300651
1.1/8" x 3/4"	(1 Pack)	30300652
1.1/8" x 7/8"	(1 Pack)	30300653
1.3/8" x 1.1/8"	(1 Pack)	30300705



45 DEGREE BEND

Size	Quantity	Code
1/4"	(3 Pack)	30300654
3/8"	(3 Pack)	30300655
1/2"	(3 Pack)	30300656
5/8"	(3 Pack)	30300657
3/4"	(3 Pack)	30300658
7/8"	(3 Pack)	30300659
1"	(2 Pack)	30300660
1.1/8"	(2 Pack)	30300661
1.3/8"	(2 Pack)	30300709



REDUCING COUPLER

Size	Quantity	Code
1/2" x 3/8"	(2 Pack)	30300629
5/8" x 3/8"	(2 Pack)	30300630
5/8" x 1/2"	(2 Pack)	30300631
3/4" x 3/8"	(2 Pack)	30300632
3/4" x 1/2"	(2 Pack)	30300633
3/4" x 5/8"	(2 Pack)	30300634
7/8" x 1/2"	(2 Pack)	30300635
7/8" x 5/8"	(2 Pack)	30300636
7/8" x 3/4"	(2 Pack)	30300637
1.1/8" x 5/8"	(1 Pack)	30300638
1.1/8" x 3/4"	(1 Pack)	30300639
1.1/8" x 7/8"	(1 Pack)	30300640
1.3/8" x 1.1/8"	(1 Pack)	30300704



STOP ENDS

Size	Quantity	Code
1/4"	(3 Pack)	30300662
3/8"	(3 Pack)	30300663
1/2"	(3 Pack)	30300664
5/8"	(2 Pack)	30300665
3/4"	(2 Pack)	30300666
7/8"	(2 Pack)	30300667
1"	(1 Pack)	30300668
1.1/8"	(1 Pack)	30300669
1.3/8"	(1 Pack)	30300707

MAXIPRO ROTHENBERGER PRESS TOOLS

Description	Code
Romax Compact III Starter Kit C/W 18v Charger, Battery, 8pc Jaw Set, 90 Fittings 3/8", 1/2", 5/8"	80053238
Maxi-Pro 8pc Jaw Set 1/4" to 1.1/8"	80053201
Romax Compact III spare Battery 2.5ah	80053206
Romax Compact 4000 C/W 18v Charger, Battery, 8pc Jaw Set 1/4" to 1.3/8"	80053226

* Romax Compact III will press up to 1.1/8"

COPPER FITTINGS

LAWTON
ACR



LONG RADIUS 90 DEGREE ELBOWS

Size	Code
1/4"	30020001
3/8"	30020002
1/2"	30020003
5/8"	30020004
3/4"	30020005
7/8"	30020006
1.1/8"	30020007
1.3/8"	30020008
1.5/8"	30020009
2.1/8"	30020010
2.5/8"	30020011
3.1/8"	30020012
3.5/8"	30020020
4.1/8"	30020013



SHORT RADIUS 90 DEGREE ELBOWS

Size	Code
1/4"	30020014
3/8"	30020015
1/2"	30020016
5/8"	30020017
3/4"	30020018
7/8"	30020019
1.1/8"	30020020
1.3/8"	30020021
1.5/8"	30020022
2.1/8"	30020023
2.5/8"	30020024
3.1/8"	30020025
3.5/8"	30020026



45 DEGREE ELBOWS

Size	Code
1/4"	30020036
3/8"	30020037
1/2"	30020038
5/8"	30020039
3/4"	30020040
7/8"	30020041
1.1/8"	30020042
1.3/8"	30020043
1.5/8"	30020044
2.1/8"	30020045
2.5/8"	30020046
3.1/8"	30020047
3.5/8"	30020048
4.1/8"	30020027



EQUAL TEES

Size	Code
1/4"	30020049
3/8"	30020050
1/2"	30020051
5/8"	30020052
3/4"	30020053
7/8"	30020054
1.1/8"	30020055
1.3/8"	30020056
1.5/8"	30020057
2.1/8"	30020058
2.5/8"	30020059
3.1/8"	30020060
3.5/8"	30020218
4.1/8"	30020219



REDUCING TEES

Size	Code
3/8" x 3/8" x 1/4"	30020061
3/8" x 3/8" x 1/2"	30020062
3/8" x 3/8" x 5/8"	30020063
1/2" x 1/2" x 1/4"	30020064
1/2" x 1/2" x 3/8"	30020065
1/2" x 1/2" x 5/8"	30020066
5/8" x 5/8" x 1/4"	30020067
5/8" x 5/8" x 3/8"	30020068
5/8" x 5/8" x 1/2"	30020069
5/8" x 5/8" x 3/4"	30020070
3/4" x 3/4" x 3/8"	30020071
3/4" x 3/4" x 1/2"	30020072
3/4" x 3/4" x 5/8"	30020073
7/8" x 7/8" x 3/8"	30020074
7/8" x 7/8" x 1/2"	30020075
7/8" x 7/8" x 3/4"	30020076
7/8" x 7/8" x 5/8"	30020077
1.1/8" x 1.1/8" x 1/2"	30020078
1.1/8" x 1.1/8" x 3/4"	30020079
1.1/8" x 1.1/8" x 5/8"	30020080
1.1/8" x 1.1/8" x 7/8"	30020081
1.3/8" x 1.1/8" x 5/8"	30020082
1.3/8" x 1.3/8" x 1/2"	30020083
1.3/8" x 1.3/8" x 5/8"	30020084
1.3/8" x 1.3/8" x 7/8"	30020085
1.3/8" x 1.3/8" x 1.1/8"	30020086
1.5/8" x 1.5/8" x 5/8"	30020087
1.5/8" x 1.5/8" x 7/8"	30020088
1.5/8" x 1.5/8" x 1.1/8"	30020089
1.5/8" x 1.5/8" x 1.3/8"	30020090
2.1/8" x 2.1/8" x 7/8"	30020091
2.1/8" x 2.1/8" x 1.1/8"	30020092
2.1/8" x 2.1/8" x 1.3/8"	30020093
2.1/8" x 2.1/8" x 1.5/8"	30020094
2.1/8" x 2.1/8" x 2.5/8"	30020243
2.5/8" x 2.5/8" x 1.1/8"	30020095
2.5/8" x 2.5/8" x 1.3/8"	30020096
2.5/8" x 2.5/8" x 1.5/8"	30020097
2.5/8" x 2.5/8" x 2.1/8"	30020098
3.1/8" x 2.5/8" x 3.1/8"	30020224

COPPER FITTINGS

LAWTON
ACR



EQUAL COUPLERS

Size	Code
1/4"	30020161
3/8"	30020162
1/2"	30020163
5/8"	30020164
3/4"	30020165
7/8"	30020166
1.1/8"	30020167
1.3/8"	30020168
1.5/8"	30020169
2.1/8"	30020170
2.5/8"	30020171
3.1/8"	30020172
3.5/8"	30020173
4.1/8"	30020174



COPPER X COPPER REDUCERS

Size	Code
3/8" x 1/4"	30020099
1/2" x 3/8"	30020100
5/8" x 1/4"	30020101
5/8" x 3/8"	30020102
5/8" x 1/2"	30020103
3/4" x 3/8"	30020104
3/4" x 1/2"	30020105
3/4" x 5/8"	30020106
7/8" x 3/8"	30020107
7/8" x 1/2"	30020108
7/8" x 5/8"	30020109
7/8" x 3/4"	30020110
1.1/8" x 1/2"	30020111
1.1/8" x 3/4"	30020112
1.1/8" x 5/8"	30020113
1.1/8" x 7/8"	30020114
1.3/8" x 5/8"	30020115
1.3/8" x 3/4"	30020116
1.3/8" x 7/8"	30020117
1.3/8" x 1.1/8"	30020118
1.5/8" x 7/8"	30020119
1.5/8" x 1.1/8"	30020120
1.5/8" x 1.3/8"	30020121
2.1/8" x 1.1/8"	30020122
2.1/8" x 1.3/8"	30020123
2.1/8" x 1.5/8"	30020124
2.5/8" X 1.1/8"	30020221
2.5/8" X 1.3/8"	30020241
2.5/8" x 2.1/8"	30020125
3.1/8" X 2.1/8"	30020222
3.1/8" X 2.5/8"	30020223
4.1/8" X 3.1/8"	30020240



FITTING X COPPER REDUCER

Size	Code
3/8" x 1/4"	30020126
1/2" x 1/4"	30020127
1/2" x 3/8"	30020128
5/8" x 3/8"	30020129
5/8" x 1/2"	30020130
3/4" x 3/8"	30020131
3/4" x 1/2"	30020132
3/4" x 5/8"	30020133
7/8" x 3/8"	30020134
7/8" x 1/2"	30020135
7/8" x 5/8"	30020136
7/8" x 3/4"	30020137
1.1/8" x 1/2"	30020138
1.1/8" x 5/8"	30020139
1.1/8" x 3/4"	30020140
1.1/8" x 7/8"	30020141
1.3/8" x 5/8"	30020142
1.3/8" x 7/8"	30020143
1.3/8" x 1.1/8"	30020144
1.5/8" x 7/8"	30020145
1.5/8" x 1.1/8"	30020146
1.5/8" x 1.3/8"	30020147
2.1/8" x 1.1/8"	30020148
2.1/8" X 1.3/8"	30020149
2.1/8" x 1.5/8"	30020150
2.5/8" x 1.1/8"	30020151
2.5/8" x 1.3/8"	30020152
2.5/8" x 1.5/8"	30020153
2.5/8" x 2.1/8"	30020154
3.1/8" x 1.3/8"	30020155
3.1/8" x 1.5/8"	30020156
3.1/8" x 2.1/8"	30020157
3.1/8" x 2.5/8"	30020158
3.5/8" x 3.1/8"	30020159
4.1/8" X 3.1/8"	30020242
4.1/8" x 3.5/8"	30020160



RETURN BENDS

Size	Code
3/8"	30020027
1/2"	30020028
5/8"	30020029
3/4"	30020030
7/8"	30020031
1.1/8"	30020032
1.3/8"	30020033
1.5/8"	30020034
2.1/8"	30020035

COPPER FITTINGS

LAWTON
ACR



LONG RADIUS 90 DEGREE ELBOWS FITTING X COPPER

Size	Code
3/8"	30020225
1/2"	30020226
5/8"	30020227
3/4"	30020211
7/8"	30020228
1.1/8"	30020212
1.3/8"	30020245
1.5/8"	30020246
2.1/8"	30020244
2.5/8"	30020213
3.1/8"	30020247



SHORT RADIUS 90 DEGREE ELBOWS FITTING X COPPER

Size	Code
1/2"	30020204
5/8"	30020205
3/4"	30020206
7/8"	30020207
1.1/8"	30020208
1.3/8"	30020209
1.5/8"	30020210



45 DEGREE ELBOWS FITTING X COPPER

Size	Code
3/8"	30020229
1/2"	30020230
5/8"	30020231
3/4"	30020232
7/8"	30020233
1.1/8"	30020234
1.3/8"	30020235
1.5/8"	30020236
2.1/8"	30020237
2.5/8"	30020238
3.1/8"	30020239



P TRAPS

Size	Code
5/8"	30020197
3/4"	30020198
7/8"	30020199
1.1/8"	30020200
1.3/8"	30020201
1.5/8"	30020202
2.1/8"	30020203



COPPER SADDLES

Size	Code
1/8"	30020186
1/4"	30020187
3/8"	30020188
1/2"	30020189
5/8"	30020190
3/4"	30020191
7/8"	30020192
1.1/8"	30020193
1.3/8"	30020194
1.5/8"	30020195
2.1/8"	30020196



END CAPS

Size	Code
3/8"	30020175
1/2"	30020176
5/8"	30020177
3/4"	30020178
7/8"	30020179
1.1/8"	30020180
1.3/8"	30020181
1.5/8"	30020182
2.1/8"	30020183
2.5/8"	30020184
3.1/8"	30020185



BRAZING ACCESSORIES

Description	Brand	Code
Maxi Gas Refill For Turbo Set	Advanced	80080003
Oxygen Refill For Turbo Set	Advanced	80080002
MAPP Gas 16oz	Diversitech	80030037
Brazing Rods PHOS-2 (1KG)	Lawton	80060030
Silver Solder Flux 40% 1.5mm X 500mm	Lawton	80060046
Silver Solder Flux 30% 1.5mm X 500mm	Lawton	80060045
Silver Solder Flux 15% 1.5mm X 500mm	Lawton	80060037
Silver Solder Flux 30% 1.5mm X 500mm (PACK 5)	Lawton	80060038

Please go to Page 93 for more brazing accessories and tools.

PIPE CLAMPS & FIXINGS

CUSHION CLAMPS

Size	Code
1/4"	30040002
3/8"	30040003
1/2"	30040004
5/8"	30040005
3/4"	30040006
7/8"	30040007
1 1/8"	30040008
1 3/8"	30040009
1 5/8"	30040010
2 1/8"	30040011
2 5/8"	30040012
3 1/8"	30040013
3 5/8"	30040014
4 1/8"	30040015

Packed in bags of 10

QUICK POSITIONING CLAMPS

Size	Code
1/4"	30040027
3/8"	30040028
1/2"	30040029
5/8"	30040030
3/4"	30040031
7/8"	30040032
1 1/8"	30040033
1 3/8"	30040034
1 5/8"	30040035

Packed in bags of 10

PIPE SUSPENDERS

Size	Code
BBJ 2	30040046
BBJ 3	30040047
BBJ 4	30040048

Packed in bags of 10

GRIP LOCK

Size	Code
Size 1	30040020
Size 2	30040021
Size 3	30040022
Size 4	30040023

Packed in bags of 10

CABLE TIES

Part	Code
12" X 300mm White Cable Ties (100pk)	20060301
Big Ties White BT-300 (10pk)	20040054
Big Ties Black BT-300 (10pk)	20040060

PLASTIC HANGERS

Size	Code
P2	30040010
P3	30040011
P4	30040012

Packed in bags of 5

FLOW AND RETURN CLAMPS (8mm Rod Diameter)

Size	Liquid Pipe Dia	Gas Pipe Dia	Code
FRC-2	3/8"	5/8"	30040021

Packed in bags of 10

THREADED ROD HANGERS (8mm Rod Diameter)

Size	Liquid Pipe Dia	Gas Pipe Dia	Code
TRH-1 Squeeze Fit Threaded Rod Hanger	1/4"	1/2"	30040042
TRH-2 Squeeze Fit Threaded Rod Hanger	3/8"	5/8"	30040017
TRH-3 Squeeze Fit Threaded Rod Hanger	1/2"	7/8"	30040018
TRH-4 Squeeze Fit Threaded Rod Hanger	5/8"	1 1/8"	30040019

Packed in bags of 10

STUD CLIP

	M8	M10
Size	Code	Code
1/4" - 6-10mm	30040070	30040084
3/8" - 6-10mm	30040071	30040085
1/2" - 12mm	30040072	30040086
5/8"	30040073	30040087
3/4" - 18-20mm	30040074	30040088
7/8" - 22mm	30040075	30040089
1" - 24-25mm	30040076	30040090
1 1/8" - 27-28mm	30040077	30040091
1 1/4" - 30-34mm	30040078	30040092
1 3/8" - 35-38mm	30040079	30040093
1 1/2" - 40-41mm	30040080	30040094
1 5/8" - 42-48mm	30040081	30040095
2" - 50mm	30040082	30040096
2 1/8" - 53-58mm	30040083	30040097

Packed in bags of 10

HYBRID VRF SOLUTIONS

HYBRID VRF SYSTEM SOLUTIONS

Hybrid VRF is a 2-pipe heat recovery VRF with water between the Hybrid Branch Controller (HBC) and the indoor units. With water at the indoor units, Hybrid VRF gives comfortable and stable air temperatures without the need for refrigerant in occupied spaces, meaning simple compliance to BS EN378 and removing the need for refrigerant leak detection.

K-con HBC UNIT VALVE MODIFICATION WITH PORT ISOLATION

Quality assured valve solution ensuring uninterrupted cooling and heating. K-con offer a factory fitted and tested port isolation valve modification to the Mitsubishi Electric HBC and indoor ports. Isolation of individual ports and indoor units enables uninterrupted cooling and heating of the system whilst individual indoor units are serviced or maintained.



KS-8 VALVE MODIFICATION INCLUDES - ISOLATION, DRAIN-OFF COCK AND *AUTO AIR VENT (*AUTO AIR VENT SOLD SEPARATELY)

- Easy maintenance, service and future expansion without the need to shut down the whole system ensures uninterrupted cooling and heating
- Factory fitted valves resulting in reduction in on site installation time and labour costs
- Quality assured - factory fitted and tested valve solution

MLC PRESS FIT MULTI-LAYER BARRIER PIPE FOR FAST, SIMPLE AND ROBUST PIPING SOLUTIONS (SEE PAGES 38 & 39)

Kooltech supply MLC press fit piping system to meet the requirements of Mitsubishi Electric HBC applications.

- Inner aluminium layer preventing oxygen penetration
- Form-stable pipe and simply bend by hand
- Rapid press fit connection
- Inspection windows - visual check to ensure correct application
- Low heat expansion
- 25-year guarantee
- Full training available
- Meets ISO 21003 standard

SPEAK TO OUR PROJECTS TEAM TO ENQUIRE ABOUT K-CON HBC VALVE SOLUTIONS

PROJECTS CONTACT DETAILS

SCOTLAND PROJECTS

Tel: 0345 034 4181
Email: scotlandprojects@kooltech.co.uk

NORTHERN PROJECTS

Tel: 0345 034 4182
Email: northernprojects@kooltech.co.uk

SOUTHERN PROJECTS

Tel: 0345 034 4183
Email: southernprojects@kooltech.co.uk

MLC PRESS FIT MULTI LAYER BARRIER PIPE



MULTI LAYER COMPOSITE PIPES FOR PLUMBING APPLICATIONS. GET THE ADVANTAGES OF METAL & PLASTIC

- WRAS approved
- Low heat expansion
- No hot works needed
- Fewer connections
- Easy to form



NON-INSULATED STRAIGHT LENGTHS (5Mtr)

Description	Size	Code
MLCP Straight Length (5Mtr)	16 × 2mm	30301310
MLCP Straight Length (5Mtr)	20 × 2.25mm	30301311
MLCP Straight Length (5Mtr)	25 × 2.5mm	30301312
MLCP Straight Length (5Mtr)	32 × 3mm	30301313
MLCP Straight Length (5Mtr)	40 × 4mm	30301314



NON-INSULATED COIL (50Mtr)

Description	Size	Code
MLCP Coil (50Mtr)	16 × 2mm	30301320
MLCP Coil (100Mtr)	16 × 2mm	30301322
MLCP Coil (100Mtr)	20 × 2.25mm	30301326
MLCP Coil (50Mtr)	25 × 2.5mm	30301327
MLCP Coil (50Mtr)	32 × 3mm	30301328

13mm class 'O' insulation see page 30

Pre-insulated MLC pipe is available. Please call 0345 034 4179



PRESS FIT - COPPER ADAPTER

Description	Size	Code
Press to Copper Tail	16 × 15mm	30301380
Press to Copper Tail	20 × 22mm	30301381
Press to Copper Tail	25 × 22mm	30301382
Press to Copper Tail	25 × 28mm	30301383
Press to Copper Tail	32 × 28mm	30301384



COPPER TO COPPER PRESS-FIT (PLUMBING)

Description	Code
22mm × 22mm Straight Coupler Conex B-Press	30300680
Romax Compact TT 22mm Jaws SV Profile For B Press	80053208



PRESS COUPLING STRAIGHT CONNECTOR

Description	Size	Code
Straight Connector	16 × 16mm	30301340
Straight Connector	20 × 20mm	30301341
Straight Connector	25 × 25mm	30301342
Straight Connector	32 × 32mm	30301343
Straight Connector	40 × 40mm	30301344



PRESS FIT 90 DEGREE ELBOW

Description	Size	Code
Press Elbow	16mm	30301350
Press Elbow	20mm	30301351
Press Elbow	25mm	30301352
Press Elbow	32mm	30301353
Press Elbow	40mm	30301354



PRESS FIT ADAPTER - MALE THREAD

Description	Size	Code
Straight Press to Male Thread	16 × ¾"	30301430
Straight Press to Male Thread	20 × ¾"	30301431
Straight Press to Male Thread	25 × ¾"	30301432
Straight Press to Male Thread	32 × 1¼"	30301433
Straight Press to Male Thread	40 × 1¼"	30301434



AUTO AIR VENT

Description	Size	Code
Auto Air Vent	½" CW Shut off Valve	90014606



DRAIN OFF TAP

Description	Code
15mm 370 Boss BZE Drain Tap	70070268

MLC PRESS FIT MULTI LAYER BARRIER PIPE



PRESS FIT - BALL VALVE

Description	Size	Code
Press Ball Valve (Red)	16mm	30301390
Press Ball Valve (Blue)	16mm	30301391
Press Ball Valve (Red)	20mm	30301392
Press Ball Valve (Blue)	20mm	30301393
Press Ball Valve (Red)	25mm	30301394
Press Ball Valve (Blue)	25mm	30301395
Press Ball Valve (Red)	32mm	30301396
Press Ball Valve (Blue)	32mm	30301397



ROMAX TT JAW SET FOR MLC PRESS FIT

Description	Code
16mm U Profile	80053217
20mm U Profile	80053218
25mm U Profile	80053212
32mm U Profile	80053213
40mm U Profile	80053214



ROTHENBURGER ROMAX COMPACT TT PRESS TOOL

Description	Code
C/W 16, 20, 25mm U Profile Jaw Set	80053216
C/W Charger And Battery	80053203
Battery 2.5AH	80053206
32mm U profile Jaws	80053213
40mm U profile Jaws	80053214



PIPEWORKING TOOLS

Description	Code
Pipe Cutting Tool (12-32mm)	80800979
3 Size Beveling Tool 16/20/25mm	80800977
Beveling Tool 32mm	80800978

All installation materials meet EN ISO 21003 regulations standards



INSTALLATION OVERVIEW

When installing plumbing systems ensure that all relevant health and safety legislation and local regulations are fully adhered to at all times.

Always check the inside of the pipe after bevelling to ensure there is no plastic waste from the bevelling process present. If using a drill when bevelling the pipe, ensure the max revolutions are less than 500/min and allow tooling to cool between each procedure.



1. Cut the pipe at 90° angle.



2. Bevel the cut end of the pipe.



3. Check to ensure there are no burrs.



4. Insert the pipe into the fitting and check the pipe is visible in the viewing windows.



5. Using a Maincor Pressing Tool or Mini Pressing Tool, make the connection.



6. Joint complete.

NATIONAL



National & Kooltech, proudly working together for over 25 years to bring independent solutions to the air-conditioning and refrigeration industry.

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DIVERSITECH
INTERNATIONAL 

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**NATIONAL
REFRIGERANTS**

HFC'S

Environment agency charge is per site delivery, incineration charge per kilo.



R134A

Kg	Code
12	40010006
25	40010007
57	40010008



R404A

Kg	Code
9	40010011
20	40010012
46	40010013



R407A

Kg	Code
9	40010066
46	40010067



R407C

Kg	Code
9	40010026
20	40010027
46	40010028



R407F

Kg	Code
9	40010022
20	40010024
46	40010023



R410A

Kg	Code
9	40010041
20	40010043
46	40010042



R417A / (ISCEON 59)

Kg	Code
12	40010045
46	40010046



R434A

Kg	Code
12	40010053
46	40010054



R438A

Kg	Code
9	40010047
46	40010048



R1234YF

Kg	Code
5	40010142



R32

Kg	Code
9	40010032
46	40010033



R448A

Kg	Code
9	40010132
20	40010133
46	40010134



R449A

Kg	Code
9	40010146
46	40010147



R452A

Kg	Code
9	40010130
46	40010131



R454C

Kg	Code
9	40010190
20	40010191
46	40010192



R513A

Kg	Code
9	40010115
46	40010116

CYLINDER ADAPTORS

Type	Code
R32 Bottle Adaptor	90014961
Brass Adaptor Reclaim (small)	70020176
Brass Adaptor Reclaim (large)	70020175



kooltrack

Kooltech Cylinder tracking tool

- Live cylinder tracking
- Rental charge diary
- Asset management
- Transaction logging
- Engineer mobile app
- and more...

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NITROGEN-GLYCOL-OIL

CYLINDER CHARGES

All cylinders are provided to account customers on a six months free of charge loan. Following the free loan period, cylinder rental will be charged. Rental charges are non-refundable. Lost cylinders will be charged at which point rental charges will then cease. Cash customers will be required to pay a deposit for each cylinder which will be subject to part credit upon return. Please contact your local branch for the latest cylinder rental and lost cylinder charges.

RECOVERY CYLINDER CHARGES

	Kg	Code
Small	9	40010070
Medium	20	40010071
Large	50	40010072
Environment Agency Charge		40010079
Incineration per Kg		40010078



HIGH PURITY OXYGEN FREE NITROGEN

Litres	Bar	Code
10	230	40010100
20	230	40010104
50	230	40010102



NITROGEN GAUGE (50 BAR)

Litres	Bar
RS750	80010031

REFRIGERANT LABELS

75mm X 100mm Self-Adhesive Packed In 10

Refrigerant	Code
Generic FGAS Labels	80080023

Other labels available, please contact your local branch for details.

OIL & ACCESSORIES

Description	Code
46HE 1 Gallon Ester 3.785 Litres	40030002
68HE 1 Gallon Ester 3.785 Litres	40030004
150 Mineral Oil 1US Gallon	40030030
300 Mineral Oil 1US Gallon	40030031
32H Polyolester Oil 1 US Quart	40030034
32H Polyolester Oil 1 US Gallon	40030035
68H Polyolester Oil 1 US Quart	40030036
68H Polyolester Oil 1 US Gallon	40030037
Emkarate RL32H Oil 1 Litres	40030117
Emkarate RL32H Oil 5 Litres	40030118
Emkarate RL32H Oil 20 Litres	40030132
Emkarate RL46H Oil 5Litres	40030121
Emkarate RL46H Oil 20Litres	40030119
Emkarate RL68H Oil 1Litres	40030114
Emkarate RL68H Oil 5Litres	40030115
Emkarate RL68H Oil 20Litres	40030116

ACID TEST KITS

Description	Code
TKO Mineral Oil Acid Test Kit	40021006
ATK-IP Acid Test Kit - Polyester	40021007
Acid-Away 4oz bottle	40021002



PROPYLENE GLYCOL-NATIONAL

Litres	Description	Code
25	Propylene Glyco	40030043

CHEMICAL CLEANERS & ACCESSORIES



ADVANCED CONCENTRATE			
Description	Litres	Use	Code
Pyrocool	250ml	Heat Dissipating and Flame Retardant Spray	40020067
CondenCide	5	Alkaline Evaporator Cleaner and Disinfectant	40020008
EnviroCoil Concentrate	5	Universal Coil Cleaner	40020014
Endoflush	5	Internal coil and System Cleaner	40020034
Superclean	5	Heavy Duty Alkaline Foaming Condensor Cleaner	40020072
Ice 'N' Clean	1	Ice Machine Cleaner	40020374
Ice 'N' Clean	5	Ice Machine Cleaner	40020017
Condencide	5	Alkaline Evaporator Cleaner and Disinfectant	40020008
DrainKleen	5	Acid-based condensate drain unblocker	40020009
DrainKleen One Shot	250ml	Condensate drain cleaner & Unblocker with Swan Neck Bottle	40020052
Vertex	5	Intelligent Neutral pH 7.6 cleaner for Condensers and Evaporators	40020090



ADVANCED CONCENTRATED GELS 490ML			
Use with 40020054 Hydrosprayer			
Description	Litres	Use	Code
Advanced Gel ECD	8	Evaporator cleaner & Disinfectant	40020107
Advanced Gel UC	8	Universal Coil Cleaner	40020106
Advanced Gel CC	8	Condenser Cleaner	40020108
Advanced Gel DU	8	Condensate Drain Unblocker	40020104
Advanced Gel IMC	Cleans 1 Unit	Universal Coil Cleaner	40020105



ACCESSORIES	
Description	Code
Hydrosprayer	40020054



RTU	
Description	Code
RTU Evaporator Cleaner	40020036
RTU Condenser Cleaner	40020040
RTU Evaporator Cleaner & Disinfectant	40020055
RTU Odourguard Odour Eliminator	40020071



AEROSOL		
Description	Use	Code
EasyClean 600ml	Universal Coil Cleaner	40020038
EasyCare 600ml	Evaporator Cleaner and Disinfectant	40020041
EasyFinish 600ml	Fascia and Case Cleaner with Scent	40020047
EasyFoam 600ml	Heavy Duty Foaming Condensor Cleaner	40020048
EasyCoat 600ml	Acrylic protective Coating Spay for coils with Colour Indicator	40020049
EasyFresh 400ml	Odour Neutraliser	40020328



STAYCLEAN & SMELLY JELLY			
Description	Qty	Use	Code
StayClean Strips Small	6	Condensate tray bacterial control treatment	40020377
StayClean Strips Large	6	Condensate tray bacterial control treatment	40020373
StayClean MiniTablets	20	Condensate tray bacterial control treatment	40020053
Smelly Jelly Minis - Mixed	5	Fragrancing Gel - Odour Control	40020064

CHEMICAL CLEANERS & ACCESSORIES

DIVERSITECH - CONCENTRATE

Description	Litres	Use	Code
Pro-Universal Coil Cleaner	5	Condensers, Evaporators & Air Filters	40020303
Pro-Foam+ Condenser Coil Cleaner	5	Condensers	40020306
Pro-Care Evaporator Coil Cleaner	5	Evaporators, Protecting & Disinfecting	40020333
Pro-Clean Cond/Evap Cleaner	5	Condensers & Evaporators	40020308
Pro-Cool Ice Machine Cleaner	5	Ice Machines	40020307
Pro-Scale Lime Scale Remover	5	Condensers & Exchangers	40020345
Pro-Green Enviro Friendly Coil Cleaner	5	Condensers, Evaporators & Air Filters	40020346



DIVERSITECH - G2G PRE MIXED CLEANERS

Description	Litres	Use	Code
G2g Pro-Universal Coil Cleaner	1	Condensers, Evaporators & Air Filters	40020309
G2g Foam+ Condenser Coil Cleaner	1	Condensers	40020312
G2g Care+ Evaporator Coil Cleaner	1	Evaporators, Protecting & Disinfecting	40020308
G2g Green+ Enviro Friendly Coil Cleaner	1	Condensers, Evaporators & Air Filters	40020347
G2g Bubble+ Leak Detector	1	Leak Detection	40020311
G2g-Smell Buster Spray	1	Odour Elimination	40020326



DIVERSITECH - AEROSOL CLEANERS

Description	Litres	Use	Code
AER-F-600 Foaming Outdoor Coil Cleaner	600ml	Cleaning condensers	40020352
AER-I-600 Indoor Coil Cleaner And Disinfectant	600ml	Cleaning and disinfecting indoor coils	40020353
AER-B-500 Bubble Up Leak Detector Spray	500ml	Detecting leaks	40020355
AER-C-600 Case And Defuser Cleaner	600ml	Cleaning of casework and hard plastics	40020334
AER-D-600 Dual Purpose Coil Cleaner	600ml	Cleaning of indoor and outdoor coils	40020354



ACCESSORIES - DIVERSITECH

Description	Litres	Use	Code
Pro-Flush Kit P F Kit	480ml	Compressor Burnouts, refrigerant retrofits & equipment upgrades	40020320
Pro-Flush Refill	480ml	Compressor Burnouts, refrigerant retrofits & equipment upgrades	40020321
Drain Gun		Single use Drain line cleaner	40020300
GGC-12		Pack of 12 cartridges for Drain Gun	40020299
GGI-A		Adapters for Gallo Gun	40020302



DRIP TRAY ANTI BACTERIAL TABLETS

Description	Qty	Use	Code
Pro-Treat 151 Drain Pan Tablets	100 Tablets	Prevents bacteria in drip trays	40020370

LEAK DETECTION SPRAYS - GOTEC

Description	Code
Gotec Leak Detection Spray	40020100



AIR CONDITIONING UNIT CLEANING COVERS

Keep working areas clean whilst servicing cassette and wall mounted air conditioners

Description	Type	Size	Code
HookTite	Cassette Cover	1000 x 1000	40020096



Marstair Product Range Available from

kooltech

Designed and Built in the UK
Available to order TODAY



Competitive range of R410A & R407C cellar coolers

- Capacity range 2.3kW - 8.2kW
- Long pipe runs possible up to 80m with R407C models
- New smaller heat exchanger tubes offer a large reduction in refrigerant needed
- Temperature down to 4° C with R407C models
- Electronic control as standard
- 5yr parts warranty when registered*



MRC+ Condensing units also available with all new upgrades

- Electrics access door for ease of installation
- Internal sight glass for added protection
- Adjustable pressure switches for improved pump down operation
- Gomax pressure couplers to prevent damage
- Reorganised electrics for a neater finish
- Crank case heater for extra compressor safety
- Self retaining screws for easier maintenance



A2L matches available for all systems

A2LSYSTEM**MATCH** **A2L**CELLAR**MATCH** **A2L**CABINET**MATCH**

In stock and available to order for all your cooling applications

*1yr warranty as standard, 5yr warranty when registered. T&C apply.

COMPRESSORS & CONDENSING UNITS



frascold

MARSTAIR

Tecumseh

HERMETIC COMPRESSORS

R134A LOW BACK PRESSURE

Code	Compressor Model	Nominal HP	Displacement cc/rev	Motor	Electrical Details		Connection internal		Oil Charge(ml)	Weight Kg
					MRA	LRA	Suction	Discharge		
50010092	THG1358YKS	1/5	5.6	PTCSIR	0.81	9	1/4"	3/16"	243	7.6
50010068	TSB1390YKS	1/4	7.28	PTCSCR	0.61	11	1/4"	3/16"	250	9
50010086	AE2410Y-FZIA	1/5	9.39	CSIR	1.4	9	5/16"	1/4"	280	9.5
50030006	AE 16LMY	3/8	16.1	CSR	2.5	14.8	1/4"	3/16"	487	11.8

R134A MEDIUM TO HIGH BACK PRESSURE

Code	Compressor Model	Nominal HP	Displacement cc/rev	Motor	Electrical Details		Connection internal		Oil Charge(ml)	Weight Kg
					MRA	LRA	Suction	Discharge		
50010001	AZ 041IYS	1/5	5.59	RSIR	1.48	12.4	1/4"	3/8"	300	7.4
50010087	AE4425Y-FZIA	1/5	6.69	CSIR	1.65	10.5	5/16"	1/4"	280	9.1
50010078	AE4430Y-FZIA	1/4	8.02	CSIR	2.13	11.5	5/16"	1/4"	280	9.4
50010079	AE4440Y-FZIA	1/3	10.33	CSIR	2.51	13.5	5/16"	1/4"	280	9.6
50010089	AE4450Y-FZIC	1/3	13.24	CSIR	3.23	17	5/16"	1/4"	280	11.2
50010018	TYA4466YKS	2/3	18.8	CSIR	4.5	19.5	1/2" FL	1/4"	540	17.5
50010336	AKA4476YXC	5/8	22.2	CSIR	4.6	22.7	3/8"	1/4"	503	18
50010000	AJA4492YXC	3/4	26	CSIR	6.2	32	5/8" FL	5/16"	768	20
50010001	AJA4512YXC	1	34.24	CSR	6.5	36	5/8" FL	5/16"	768	22
50030010	AW40LZ-1C	1	39.6	CSR	4.5	32	5/8" FL	3/8"	950	27
50030011	AW43LZ-9C	1 1/4	43.1	CSR	5.5	32	5/8" FL	3/8"	950	27
50030012	AW54LZ-3C	1 1/2	53.1	CSR	7.9	43	5/8" FL	3/8"	946	32.6

R452A/R404A LOW BACK PRESSURE

Code	Compressor Model	Nominal HP	Displacement cc/rev	Motor	Electrical Details		Connection internal		Oil Charge(ml)	Weight Kg
					MRA	LRA	Suction	Discharge		
50030002	AE 8MG	1/4	7.55	CSIR	2.5	14	1/4"	3/16"	487	11.8
50030006	AE 16LMY	3/8	16.1	CSR	2.5	14.8	1/4"	3/16"	487	11.8
50010025	TYA2431ZKS(STUB)	1	18.8	CSR	3.18	26	3/8"	1/4"	550	17.5
50010021	TYA2431ZKS(VAL)	1	18.8	CSR	3.18	26	1/2" FL	1/4"	550	17.5
50010022	TYA2446ZKS(STUB)	1 1/2	26	CSR	5.45	34	1/2"	1/4"	550	18.5
50010024	TYA2446ZKS(VAL)	1 1/2	26	CSR	5.45	34	1/2" FL	1/4"	550	18.5
50030010	AW40LZ-1C	1	39.6	CSR	4.5	32	5/8" FL	3/8"	950	27
50030011	AW43LZ-9C	1 1/4	43.1	CSR	5.5	32	5/8" FL	3/8"	950	27
50030012	AW54LZ-3C	1 1/2	53.1	CSR	7.9	43	5/8" FL	3/8"	946	32.6

R452A/R404A MEDIUM TO HIGH BACK PRESSURE

Code	Compressor Model	Nominal HP	Displacement cc/rev	Motor	Electrical Details		Connection internal		Oil Charge(ml)	Weight Kg
					MRA	LRA	Suction	Discharge		
50030002	AE 8MG	1/4	7.55	CSIR	2.5	14	1/4"	3/16"	487	11.8
50030003	AE 9MG	1/3	8.88	CSIR	2.9	14.5	1/4"	3/16"	487	11.8
50030004	AE 12MG	3/8	12.01	CSR	2.5	14.8	1/4"	3/16"	487	11.8
50030005	AE 14MG	1/2	14.14	CSR	2.9	15.2	1/4"	3/16"	487	11.8
50010037	TYA9456ZKS (STUB)	1	18.8	CSR	6.2	28	3/8"	1/4"	550	18.7
50010038	TYA9456 (VAL)	1	18.8	CSR	6.2	28	1/2" FL	1/4"	550	18.7
50010040	TYA9486ZKS (VAL)*	1 1/2	26	CSR	6.58	36	1/2" FL	1/4"	550	19.3
50030013	AW38MG**	1 1/2	37.5	CSR	7.14	45	**5/8"	1/2"	950	28.2
50030014	AW43MHG**	2	43.1	CSR	9.63	46	**5/8"	1/2"	950	28.2
50030016	AW54MHG-5C**	2 1/2	53.5	CSR	13	82	**5/8"	1/2"	950	29.8

* 1/2" sweat rotolock valve sold separately code 50010107 ** 5/8" Sweat suction rotolock valve sold separately, code: 50010106

COMPRESSORS

CAPACITY TABLES - LOW BACK PRESSURE CONDENSING TEMP 54.4 DEG C

Compressor Model	Refrigerant	REFRIGERATING CAPACITY					
		-35	-30	-25	-20	-15	-10
THG1358YKS	R134A	65	100	143	193	252	320
AE2410Y-FZIA		84	119	169	229	296	367
TSB1390YKS		123	165	219	285	364	441

CAPACITY TABLES - LOW TO HIGH BACK PRESSURE CONDENSING 54.4 DEG C

Compressor Model	Refrigerant	REFRIGERATING CAPACITY						
		-40	-35	-30	-25	-20	-15	-10
AE8MG	R452A R404A		137	210	295	385	490	
AE16LMY			330	465	620	810	1025	
TYA2431ZKS			235	441	683	959	1263	1588
TYA2446ZKS			346	668	1034	1452	1912	2404
AW40LZ		712	929	1146	1413	1743	2149	
AW43LZ		798	1009	1220	1475	1784	2157	
AW54LZ		886	1257	1628	2110	2733	3541	

CAPACITY TABLES - MEDIUM TO HIGH BACK PRESSURE CONDENSING 54.4 DEG C

Compressor Model	Refrigerant	REFRIGERATING CAPACITY						
		-15	-10	-5	0	5	10	15
AZ0411YS	R513A R134A	191	246	319	412	506	614	
AE4425Y-FZIA		200	274	350	434	530	646	786
AE4430Y-FZIA		246	321	412	518	644	792	965
AE4440Y-FZIA		340	434	545	676	830	1008	1220
AE4450Y-FZIC		429	567	717	883	1071	1290	1540
AE16LMY		540	680	840	1030	1260		
AKA4476YXC				957	1205	1550	1940	2355
TYA4466YKS		425	716	1003	1298	1596	1943	
AJA4492YXC				1122	1420	1810	2285	2840
AJA4512YXC				1551	1975	2530	3145	3780

CAPACITY TABLES - MEDIUM TO HIGH BACK PRESSURE CONDENSING 54.5 DEG C

Compressor Model	Refrigerant	REFRIGERATING CAPACITY					
		-15	-10	-5	0	5	10
AE8MG	R452A R404A		360	465	580	720	870
AE9MG		460	565	705	860	1030	
AE12MG		665	820	1020	1220	1440	
AE14MG		790	995	1230	1490	1800	
TYA9456ZKS		884	1208	1574	1986	2397	2860
TYA9486ZKS		1285	1756	2289	2888	3486	4158
W131MHG		1718	2177	2714	3328	4019	4786
AW38MG		1685	2239	2860	3620	4519	
AW43MHG		2097	2799	3600	4469	5490	6760
AW54MHG		2612	3540	4508	5710	7109	8710

TECUMSEH CONDENSING UNITS

WINTSYS AND SILENSYS CONDENSING UNITS

The Tecumseh ranges, **Wintsys** and **Silensys** provide a comprehensive range of ultra-quiet condensing units, ideal for convenience stores and the food service industry.

- Wide range of models – 45 options available, from 300W to 33,800W, in both 50Hz and 60Hz.
- Pre-fitted and ready to install – Supplied pre-wired for quick and easy setup.
- Effortless maintenance – A removable shroud allows direct access to components and connections from two access points.
- Ultra-quiet operation – Noise levels as low as 7 to 12 dB, making it perfect for noise-sensitive environments.
- Flexible installation – Supplied with an installation kit for floor or wall mounting to suit various applications.



Wintsys has a higher dBA rating and includes a sight glass, drier, and isolator, while Silensys operates at a lower noise level and comes with the same components plus a wall mounting kit and fan speed controller as standard.

WINTSYS CONDENSING UNITS

Model	Code	Electrical Supply 1 / 3 PH	Nominal HP	Displacement cc/rev	Motor	Electrical Details		Connections		Weight kg	No. of Fans	Dimensions mm L x D x H
						FZ	KZ	Suction	Liquid			
WINAJ2464Z	50052500	1	1 1/2	34.5	1 1/2	10.5	3.9	5/8"	3/8"	66.5	1	940 x 531 x 710
WINAJ2480Z	50052501	1	2	53.2	2	16.7	7	5/8"	1/2"	75.9	1	1156 x 531 x 710
WINAJ2512Z	50052502	1	2 1/2	74.2	2 1/2	24.7	7.9	5/8"	1/2"	79.9	1	1156 x 531 x 710
WINAE4450Z	50052510	1	1/2	8.9	1/2	5.6	N/A	3/8"	1/4"	55.5	1	940 x 531 x 710
WINAE4460Z	50052511	1	1/2	10.3	1/2	6.4	N/A	3/8"	1/4"	55.3	1	940 x 531 x 710
WINFH4524Z	50052512	1	2	43.5	2	20.3	8.4	5/8"	1/2"	79.9	1	1156 x 531 x 710
WINFH4532Z	50052513	1	2 1/2	56.6	2 1/2	23.1	9.7	7/8"	1/2"	82.1	1	1156 x 531 x 710
WINFH4538Z	50052514	1	3 1/2	74.2	3 1/2	27	9.7	7/8"	1/2"	82.1	1	1156 x 531 x 710
WINFH4538Z	50052515	3	3 1/2	74.2	3 1/2	27	9.7	7/8"	1/2"	82.1	1	1156 x 531 x 710
WINAJ4517Z	50052520	1	1 1/4	26	1 1/4	13.2	4.7	5/8"	3/8"	65.9	1	940 x 531 x 710
WINAJ4519Z	50052521	1	1 1/2	34.5	1 1/2	15.5	6.7	5/8"	3/8"	66.3	1	940 x 531 x 710
WINAJ9480Z	50052522	1	5/8	15.2	5/8	7.3	3.7	1/2"	3/8"	63.5	1	940 x 531 x 710
WINAJ9510Z	50052523	1	1	18.3	1	8.9	4.1	5/8"	3/8"	65.3	1	940 x 531 x 710
WINAJ9513Z	50052524	1	1 1/8	24.2	1 1/8	11.8	4.9	5/8"	3/8"	65.3	1	940 x 531 x 710

WINTSYS LBP R452A

MODEL NUMBER	REFRIGERATION OUTPUT 32° amb, 10K superheating, 3K subcooling, Mid/Mid Evaporation temperature (°C)						Aco. P db(A)	Air flow m3/h	Liq. Rec. Vol.	Maximum current according to voltage code	
	-35°	-30°	-25°	-20°	-15°	-10°				FZ	TZ
WINAJ2464Z	765	1026	1337	1699	2116	2589	28	1650	1.50	10.5	3.9
WINAJ2480Z	1012	1407	1852	2351	2912	3543	39	1650	2.35	16.7	7.0
WINAJ2512Z	1353	1871	2488	3211	4049	5009	42	2750	2.35	24.7	7.9

WINTSYS MHBP R452A

MODEL NUMBER	REFRIGERATION OUTPUT 32° amb, 10K superheating, 3K subcooling, Mid/Mid Evaporation temperature (°C)							Aco. P db(A)	Air flow m3/h	Liq. Rec. Vol.	Maximum current according to voltage code	
	-25°	-15°	-10°	-5°	0°	5°	15°				FZ	TZ
WINAE4450Z	368	638	805	1004	1237	1506	2167	27	1650	0.75	5.6	na
WINAE4460Z	470	771	957	1178	1436	1735	2470	28	1650	0.75	6.4	na
WINAJ9480Z	607	1027	1286	1590	1943	2348	3329	30	1650	1.50	7.3	3.7
WINAJ9510Z	758	1263	1571	1934	2352	2830	3988	30	1650	1.50	8.9	4.1
WINAJ9513Z	914	1568	1968	2432	2963	3566	5005	30	1650	1.50	11.8	4.9
WINAJ4517Z	1008	1689	2094	2562	3097	3711	5216	30	1650	2.35	13.2	4.7
WINAJ4519Z	1130	2093	2596	3171	3828	4587	6519	32	1650	2.35	15.5	6.7
WINFH4524Z	1319	2439	3122	3911	4807	5821	8236	39	2750	2.35	20.3	8.4
WINFH4538Z	2174	3851	4814	5877	7027	8267	11132	47	2750	3.90	27.0a	9.7b

TECUMSEH CONDENSING UNITS

SILENSYS CONDENSING UNITS

Model	Code	Electrical Supply 1 / 3 PH	Nominal HP	Displacement cc/rev	Motor	Electrical Details		Connections		Weight kg	No. of Fans	Dimensions mm L x D x H
						FZ	KZ	Suction	Liquid			
SILA2446Z	50052530	1	3/4	26.2	3/4	8.5	3.2	3,8"	1,4"	71	1	953 x 561 x 710
SILA2464Z	50052531	1	1 1/2	34.5	1 1/2	10.3	4.1	1,2"	3,8"	74	1	953 x 561 x 710
SILFH2480Z	50052532	1	2	53.2	2	17.7	11.7	5,8"	1,2"	81.5	1	1156 x 572 x 837
SILFH2511Z	50052533	1	2 1/2	74.2	2 1/2	26	14.4	5,8"	1,2"	85.5	1	1156 x 572 x 837
SILFH2480Z	50052534	3	2	53.2	2	17.3	11.7	5,8"	1,2"	82.5	1	1156 x 572 x 837
SILFH2511Z	50052535	3	2 1/2	74.2	2 1/2	26	14.4	5,8"	1,2"	83.5	1	1156 x 572 x 837
SILAG2522Z	50052536	3	5	134.8	5	30.2	14.2	7,8"	1,2"	111.5	1	1156 x 572 x 837
SILAE4450ZFZ	50052540	1	1/2	8.9	1/2	5.4	N/A	3,8"	1,4"	70	1	940 x 572 x 837
SILAE4460Z	50052541	1	1/2	10.3	1/2	6.2	N/A	3,8"	1,4"	69	1	940x 572 x 837
SILAJ9480Z	50052542	1	5/8	15.2	5/8	7	3.7	1,2"	3,8"	70	1	940x 572 x 837
SILAJ9480Z	50052543	3	5/8	15.2	5/8	7	3.7	1,2"	3,8"	70	1	940x 572 x 837
SILAJ9510Z	50052544	1	1	18.3	1	8.7	4.1	5,8"	3,8"	71	1	940x 572 x 837
SILAJ9513Z	50052545	1	1 1/8	24.2	1 1/8	11.6	4.7	5,8"	3,8"	74	1	940x 572 x 837
SILAJ9513Z	50052546	3	1 1/8	24.2	1 1/8	11.6	4.7	5,8"	3,8"	74	1	940x 572 x 837
SILAJ4517Z	50052547	1	1 1/4	26	1 1/4	13	4.7	5,8"	3,8"	75	1	940x 572 x 837
SILAJ4519Z	50052548	1	1 1/2	34.5	1 1/2	15.5	6.5	5,8"	3,8"	74	1	940x 572 x 837
SILAJ4519Z	50052549	3	1 1/2	34.5	1 1/2	15.5	6.5	5,8"	3,8"	73.5	1	940x 572 x 837
SILFH4544Z	50052550	3	3 1/2	84.2	3 1/2	23.7	14.9	7,8"	1,2"	89.5	1	1169 x 569 x 710

SILENSYS LBP R452A

MODEL NUMBER	REFRIGERATION OUTPUT 32° amb, 10K superheating, 3K subcooling, Mid/Mid Evaporation temperature (°C)						Aco. P db(A)	Air flow m3/h	Liq. Rec. Vol.	Maximum current according to voltage code		
	-35°	-30°	-25°	-20°	-15°	-10°				FZ	KZ	TZ
SILA2446Z	523	682	874	1101	1367	1674	27	1650	1.50	5.7	na	na
SILA2464Z	765	1026	1337	1699	2116	2589	27	1650	1.50	10.3	na	4.1
SILFH2480Z	1012	1403	1847	2345	2904	3532	39	1650	2.35	17.3	11.7	6.6
SILFH2511Z	1350	1866	2481	3202	4037	4994	44	2700	2.35	26.0	14.4	8.3
SILAG2522Z	2349	3250	4295	5486	6835	8366	40	2700	3.90	na	30.2	14.2

SILENSYS MHBP R452A

MODEL NUMBER	REFRIGERATION OUTPUT 32° amb, 10K superheating, 3K subcooling, Mid/Mid Evaporation temperature (°C)							Aco. P db(A)	Air flow m3/h	Liq. Rec. Vol.	Maximum current according to voltage code		
	-25°	-15°	-10°	-5°	0°	5°	15°				FZ	KZ	TZ
SILAE4450ZFZ	368	638	805	1004	1237	1506	2167	27	1620	0.75	5.4	na	na
SILAE4460Z	470	771	957	1178	1436	1735	2470	27	1620	0.75	6.2	na	na
SILAJ9480Z	607	1027	1286	1590	1943	2348	3329	28	1650	1.50	7.0	na	3.7
SILAJ9510Z	758	1252	1554	1908	2318	2789	3942	26	1650	1.50	8.7	na	4.1
SILAJ9513Z	914	1568	1968	2432	2963	3566	5005	26	1650	1.50	11.6	na	4.7
SILAJ4517Z	1008	1689	2094	2562	3097	3711	5216	27	1650	2.35	13.0	6.3	4.7
SILAJ4519Z	1226	2093	2596	3171	3828	4587	6519	28	1650	2.35	15.5	11.2	6.5

MARSTAIR CONDENSING UNITS

MARSTAIR
REFRIGERATION AND SPECIALIST AIR CONDITIONING

MARSTAIR MRC+ REFRIGERATION CONDENSING UNITS

(R407A, R407F, R404A, R448A, R449A)



Approved for use with low GWP refrigerants - R448A and R449A.

ECA listed and Eco Design friendly.

- Standard equipment includes - HP/LP switch, 3 min start delay timer and fan speed head pressure control.
- MRC+ range includes the following components - Capacitor Start Relay (15-40 1Ph only), Sight Glass, refrigeration Drier, BS EN 60947-3-1 isolator fitted, Compressor Jacket Noise attenuation insulation.

SINGLE PHASE

Model	Code	Nominal Cooling Capacity (-10°C Evap Temp and 32° Ambient Temp) kW	Operating Weight Kg	Power (nominal kW)	No. of Fans and Diameter No./mm	Fan Speed Rpm	Dimensions mm
MRC+(PLUS) 15	50500430	1.1	46	0.82	1 x 457	940	620 x 900 x 340
MRC+(PLUS) 20	50500431	1.4	47	1.12	1 x 457	940	620 x 900 x 340
MRC+(PLUS) 30	50500432	2	48	1.42	1 x 457	940	620 x 900 x 340
MRC+(PLUS) 40	50500433	2.9	53	1.07	1 x 457	940	620 x 900 x 340
MRC+(PLUS) 45	50500434	2.9	61	1.43	1 x 457	940	720 x 1000 x 350
MRC+(PLUS) 50	50500435	3.9	64	2.03	1 x 457	940	720 x 1000 x 350
MRC+(PLUS) 60	50500436	4.6	65	2.26	1 x 457	940	720 x 1000 x 350
MRC+(PLUS) 80	50500437	5.5	66	2.61	1 x 457	940	720 x 1000 x 350
MRC+(PLUS) 90	50500438	6.4	76	3.03	1 x 457	940	820 x 1000 x 350
MRC+(PLUS) 100	50500439	7.1	81	3.92	1 x 457	940	820 x 1000 x 350
MRC+(PLUS) 150	50500440	8.8	103	4.52	2 x 457	940	1080 x 1000 x 425

THREE PHASE

Model	Code	Nominal Cooling Capacity (-10°C Evap Temp and 32° Ambient Temp) kW	Operating Weight Kg	Power (nominal kW)	No. of Fans and Diameter No./mm	Fan Speed Rpm	Dimensions mm
MRC+(PLUS) 30	50500441	2	48	1.42	1 x 457	940	620 x 900 x 340
MRC+(PLUS) 40	50500442	2.9	53	2.07	1 x 457	940	620 x 900 x 340
MRC+(PLUS) 50	50500443	3.9	64	2.03	1 x 457	940	720 x 1000 x 350
MRC+(PLUS) 60	50500444	4.6	65	2.26	1 x 457	940	720 x 1000 x 350
MRC+(PLUS) 80	50500445	5.5	66	2.61	1 x 457	940	720 x 1000 x 350
MRC+(PLUS) 90	50500446	6.4	76	3.03	1 x 457	940	820 x 1000 x 350
MRC+(PLUS) 100	50500447	7.1	81	3.92	1 x 457	940	820 x 1000 x 350
MRC+(PLUS) 130	50500448	8.1	101	4.46	2 x 457	940	1080 x 1000 x 425
MRC+(PLUS) 150	50500449	8.8	103	4.52	2 x 457	940	1080 x 1000 x 425
MRC+(PLUS) 165	50500450	10.5	103	5.29	2 x 457	940	1080 x 1000 x 425
MRC+(PLUS) 180	50500451	11.6	118	5.82	2 x 457	940	1275 x 1100 x 425

For Marstair Evaporators - See pages 66-67

For full performance data see pages 52-53

MARSTAIR CONDENSING UNITS

MARSTAIR

REFRIGERATION AND SPECIALIST AIR CONDITIONING

MARSTAIR MRC+ LOW TEMPERATURE

SINGLE PHASE

Model	Code	Nominal Cooling Capacity (-10°C Evap Temp and 32° Ambient Temp) kW	Operating Weight Kg	Power (nominal kW)	No. of Fans and Diameter No./mm	Fan Speed Rpm	Dimensions mm
MRC+(PLUS)LT 40	50500452	1.18	55	1.1	1 x 457	940	620 x 1090 x 320
MRC+(PLUS)LT 50	50500453	1.66	68	1.6	1 x 457	940	720 x 1090 x 390
MRC+(PLUS)LT 60	50500454	2.28	69	2.1	1 x 457	940	720 x 1090 x 390

THREE PHASE

Model	Code	Nominal Cooling Capacity (-10°C Evap Temp and 32° Ambient Temp) kW	Operating Weight Kg	Power (nominal kW)	No. of Fans and Diameter No./mm	Fan Speed Rpm	Dimensions mm
MRC+(PLUS)LT 50	50500455	1.66	66	1.5	1 x 457	940	720 x 1090 x 390
MRC+(PLUS)LT 60	50500456	2.28	67	1.9	1 x 457	940	720 x 1090 x 390
MRC+(PLUS)LT 80	50500457	3	68	2.8	1 x 457	940	820 x 1090 x 425
MRC+(PLUS)LT 90	50500458	4.05	78	3.4	1 x 457	940	820 x 1090 x 425
MRC+(PLUS)LT 100	50500459	4.75	80	3.9	1 x 457	940	820 x 1090 x 425

For Marstair Evaporators - See pages 66-67

For full performance data see pages 52-53

MARSTAIR

REFRIGERATION AND SPECIALIST AIR CONDITIONING

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Nothing **COOLER** than a **5 year warranty**, Built in Britain, Built to last

- Built using only A-grade components
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MARSTAIR MRC+ PERFORMANCE DATA

R407A 32°C AMBIENT TEMPERATURE

Evaporating temperature °C																	
Model	Electrical Supply / Code		Hp	-15		-10		-5		0		5		7		10	
				COOLING CAPACITY AND POWER INPUT kW													
	1Ph	3Ph		CAP.	POWER	CAP.	POWER	CAP.	POWER	CAP.	POWER	CAP.	POWER	CAP.	POWER	CAP.	POWER
MRC+ 15	50500430		1/2	0.81	0.58	1.09	0.64	1.42	0.72	1.74	0.83	2.19	0.86	2.19	0.89	2.24	0.92
MRC+ 20	50500431		5/8	1.05	0.74	1.42	0.83	1.84	0.92	2.26	1.07	2.84	1.12	2.85	1.15	2.91	1.20
MRC+ 30	50500432	50500441	1 3/8	1.57	0.95	2.03	1.06	2.53	1.17	3.03	1.35	3.74	1.41	3.72	1.49	4.02	1.58
MRC+ 40	50500433	50500442	1 1/2	2.31	1.43	2.92	1.56	3.60	1.70	4.28	1.97	5.04	2.10	5.25	2.19	5.68	2.34
MRC+ 45	50500434		1 1/2	2.33	1.14	2.89	1.17	3.39	1.22	3.95	1.36	4.61	1.42	4.78	1.52	5.31	1.64
MRC+ 50	50500435	50500443	2	3.12	1.67	3.89	1.72	4.58	1.76	5.37	1.93	6.29	1.96	6.54	2.02	7.29	2.10
MRC+ 60	50500436	50500444	2 1/2	3.66	1.86	4.56	1.91	5.38	1.96	6.30	2.15	7.38	2.18	7.68	2.25	8.56	2.34
MRC+ 80	50500437	50500445	3	4.35	2.14	5.43	2.20	6.40	2.26	7.50	2.48	8.78	2.52	9.14	2.60	10.18	2.70
MRC+ 90	50500438	50500446	3 1/2	5.08	2.48	6.34	2.55	7.47	2.62	8.76	2.88	10.25	2.93	10.67	3.02	11.89	3.14
MRC+ 100	50500439	50500447	4	5.82	3.21	7.02	3.25	8.56	3.39	10.03	3.72	11.75	3.78	12.22	3.88	13.62	4.04
MRC+ 130		50500448	4 1/2	6.67	3.67	8.05	3.71	9.81	3.87	11.50	4.24	13.46	4.31	14.00	4.43	15.61	4.60
MRC+ 150	50500440	50500449	5	7.28	3.71	8.78	3.76	10.70	3.92	12.54	4.29	14.68	4.36	15.28	4.48	17.02	4.66
MRC+ 165		50500450	6	8.68	4.33	10.47	4.38	12.76	4.58	14.96	5.02	17.51	5.10	18.22	5.24	20.31	5.45
MRC+ 180		50500451	7 1/2	9.60	4.76	11.57	4.82	14.10	5.04	16.53	5.52	19.35	5.61	20.14	5.77	22.44	6.00

R407F 32°C AMBIENT TEMPERATURE

Evaporating temperature °C																	
Model	Electrical Supply / Code		Hp	-15		-10		-5		0		5		7		10	
				COOLING CAPACITY AND POWER INPUT kW													
	1Ph	3Ph		CAP.	POWER	CAP.	POWER	CAP.	POWER	CAP.	POWER	CAP.	POWER	CAP.	POWER	CAP.	POWER
MRC+ 15	50500430		1/2	0.79	0.65	1.07	0.70	1.40	0.78	1.74	0.86	2.21	0.93	2.22	0.96	2.29	1.00
MRC+ 20	50500431		5/8	1.03	0.83	1.39	0.92	1.81	1.01	2.26	1.12	2.87	1.21	2.88	1.25	2.97	1.30
MRC+ 30	50500432	50500441	1 3/8	1.54	1.06	1.99	1.17	2.50	1.29	3.03	1.42	3.76	1.53	3.76	1.62	4.09	1.71
MRC+ 40	50500433	50500442		2.25	1.61	2.87	1.73	3.56	1.88	4.28	2.06	5.08	2.29	5.30	2.39	5.79	2.55
MRC+ 45	50500434		1 1/2	2.28	1.28	2.84	1.30	3.35	1.35	3.95	1.42	4.65	1.55	4.83	1.65	5.42	1.78
MRC+ 50	50500435	50500443	2	3.04	1.89	3.82	1.91	4.53	1.95	5.37	2.02	6.33	2.13	6.61	2.19	7.43	2.28
MRC+ 60	50500436	50500444	2 1/2	3.57	2.10	4.48	2.13	5.31	2.17	6.30	2.25	7.43	2.38	7.76	2.44	8.72	2.55
MRC+ 80	50500437	50500445	3	4.25	2.42	5.33	2.45	6.32	2.50	7.50	2.60	8.85	2.75	9.23	2.82	10.38	2.94
MRC+ 90	50500438	50500446	3 1/2	4.96	2.81	6.23	2.85	7.38	2.91	8.76	3.02	10.33	3.20	10.78	3.28	12.12	3.43
MRC+ 100	50500439	50500447	4	5.69	3.64	6.90	3.63	8.46	3.76	10.03	3.91	11.83	4.12	12.35	4.23	13.89	4.41
MRC+ 130		50500448	4 1/2	6.51	4.15	7.90	4.13	9.69	4.28	11.50	4.45	13.56	4.69	14.15	4.81	15.91	5.01
MRC+ 150	50500440	50500449	5	7.10	4.20	8.62	4.18	10.57	4.34	12.54	4.50	14.79	4.75	15.43	4.88	17.35	5.08
MRC+ 165		50500450	6	8.48	4.91	10.28	4.89	12.61	5.07	14.96	5.26	17.64	5.56	18.41	5.70	20.70	5.94
MRC+ 180		50500451	7 1/2	9.37	5.40	11.36	5.37	13.93	5.58	16.53	5.79	19.50	6.12	20.35	6.28	22.88	6.54

MARSTAIR MRC+ PERFORMANCE DATA

R404A 32°C AMBIENT TEMPERATURE

Evaporating temperature °C																	
Model	Electrical Supply / Code		Hp	-15		-10		-5		0		5		7		10	
				COOLING CAPACITY AND POWER INPUT kW													
	1Ph	3Ph		CAP.	POWER	CAP.	POWER	CAP.	POWER	CAP.	POWER	CAP.	POWER	CAP.	POWER	CAP.	POWER
MRC+ 15	50500430		1/2	0.84	0.66	1.10	0.73	1.38	0.80	1.67	0.86	2.04	0.92	2.06	0.94	2.08	0.97
MRC+ 20	50500431		5/8	1.09	0.85	1.43	0.94	1.80	1.03	2.17	1.12	2.65	1.20	2.67	1.23	2.70	1.26
MRC+ 30	50500432	50500441	1 3/8	1.64	1.09	2.04	1.20	2.48	1.31	2.91	1.42	3.48	1.52	3.49	1.59	3.73	1.66
MRC+ 40	50500433	50500442	1 1/2	2.40	1.66	2.94	1.77	3.52	1.91	4.11	2.07	4.69	2.26	4.92	2.34	5.28	2.47
MRC+ 45	50500434		1 1/2	2.43	1.32	2.91	1.33	3.31	1.37	3.80	1.43	4.29	1.53	4.48	1.62	4.94	1.73
MRC+ 50	50500435	50500443	2	3.24	1.94	3.91	1.96	4.48	1.98	5.16	2.03	5.85	2.11	6.13	2.15	6.78	2.21
MRC+ 60	50500436	50500444	2 1/2	3.81	2.16	4.59	2.18	5.26	2.21	6.06	2.26	6.86	2.35	7.20	2.40	7.95	2.47
MRC+ 80	50500437	50500445	3	4.53	2.49	5.46	2.52	6.26	2.55	7.21	2.61	8.17	2.72	8.57	2.77	9.47	2.85
MRC+ 90	50500438	50500446	3 1/2	5.29	2.89	6.38	2.92	7.31	2.96	8.42	3.03	9.54	3.16	10.00	3.22	11.05	3.32
MRC+ 100	50500439	50500447	4	6.06	3.75	7.06	3.73	8.37	3.83	9.65	3.92	10.93	4.08	11.46	4.15	12.66	4.26
MRC+ 130		50500448	4 1/2	6.95	4.27	8.09	4.24	9.59	4.35	11.05	4.46	12.52	4.64	13.13	4.72	14.50	4.85
MRC+ 150	50500440	50500449	5	7.58	4.32	8.83	4.29	10.46	4.41	12.06	4.52	13.65	4.70	14.32	4.78	15.82	4.92
MRC+ 165		50500450	6	9.04	5.05	10.53	5.02	12.48	5.16	14.38	5.29	16.29	5.49	17.08	5.60	18.87	5.75
MRC+ 180		50500451	7 1/2	9.99	5.56	11.64	5.52	13.79	5.67	15.90	5.82	18.00	6.05	18.88	6.16	20.86	6.33

R448A/R449A 32°C AMBIENT TEMPERATURE

Evaporating temperature °C																	
Model	Electrical Supply / Code		Hp	-15		-10		-5		0		5		7		10	
				COOLING CAPACITY AND POWER INPUT KW													
	1Ph	3Ph		CAP.	POWER	CAP.	POWER	CAP.	POWER	CAP.	POWER	CAP.	POWER	CAP.	POWER	CAP.	POWER
MRC+ 15	50500430		1/2	0.74	0.60	1.00	0.67	1.29	0.74	1.60	0.80	2.01	0.87	2.05	0.90	2.10	0.94
MRC+ 20	50500431		5/8	0.97	77.00	1.30	0.86	1.68	0.95	2.08	1.05	2.61	1.14	2.66	1.17	2.73	1.22
MRC+ 30	50500432	50500441	1 3/8	1.45	0.99	1.86	1.09	2.32	1.20	2.80	1.33	3.43	1.44	3.48	1.52	3.77	1.61
MRC+ 40	50500433	50500442	1 1/2	2.13	1.51	2.68	1.61	3.29	1.76	3.95	1.94	4.62	2.15	4.90	2.23	5.34	2.39
MRC+ 45	50500434		1 1/2	2.15	1.20	2.65	1.21	3.10	1.26	3.65	1.34	4.23	1.45	4.47	1.55	4.99	1.67
MRC+ 50	50500435	50500443	2	2.87	1.77	3.56	1.79	4.19	1.82	4.96	1.90	5.76	2.00	6.11	2.05	6.85	2.14
MRC+ 60	50500436	50500444	2 1/2	3.37	1.97	4.18	1.99	4.92	2.03	5.82	2.11	6.76	2.23	7.18	2.29	8.04	2.39
MRC+ 80	50500437	50500445	3	4.01	2.27	4.97	2.30	5.86	2.35	6.93	2.44	8.05	2.58	8.54	2.65	9.57	2.76
MRC+ 90	50500438	50500446	3 1/2	4.79	2.65	5.94	2.69	7.01	2.76	8.30	2.84	9.63	2.99	10.23	3.06	11.43	3.17
MRC+ 100	50500439	50500447	4	5.46	3.43	6.53	3.42	7.96	3.54	9.45	3.66	11.02	3.84	11.68	3.93	13.13	4.06
MRC+ 130		50500448	4 1/2	6.57	3.94	7.84	3.92	9.54	4.03	11.19	4.17	13.03	4.38	13.82	4.49	15.49	4.65
MRC+ 150	50500440	50500449	5	7.16	3.98	8.56	3.96	10.41	4.09	12.21	4.23	14.20	4.44	15.08	4.55	16.90	4.71
MRC+ 165		50500450	6	8.49	4.60	10.18	4.58	12.33	4.74	14.54	4.93	16.96	5.18	17.95	5.32	20.23	5.52
MRC+ 180		50500451	7 1/2	8.93	5.48	10.88	5.55	13.05	5.63	15.43	5.81	17.97	6.12	19.13	6.23	21.44	6.50

MARSTAIR MRC+ PERFORMANCE DATA

R407A 32°C AMBIENT TEMPERATURE

Evaporating temperature °C													
Model	Electrical Supply / Code		Hp	-40		-35		-30		-25		-20	
				COOLING CAPACITY AND POWER INPUT KW									
	1Ph	3Ph		CAP.	POWER	CAP.	POWER	CAP.	POWER	CAP.	POWER	CAP.	POWER
MRC+ LT 40	50500452		11/2	0.49	0.76	0.74	0.84	1.00	0.96	1.42	1.05	1.87	1.16
MRC+ LT 50	50500453	50500455	2	0.61	1.02	1.05	1.23	1.41	1.43	1.98	1.61	2.58	1.80
MRC+ LT 60	50500454	50500456	2 1/2	0.85	1.27	1.37	1.52	1.94	1.76	2.69	2.00	3.47	2.27
MRC+ LT 80		50500457	4	1.60	1.95	2.10	2.00	2.55	2.05	3.20	2.10	3.90	2.20
MRC+ LT 90		50500458	5	2.16	2.60	2.83	2.75	3.44	2.98	4.25	3.18	5.09	3.47
MRC+ LT 100		50500459	6	2.39	3.24	3.26	3.40	4.04	3.53	4.96	3.80	5.94	4.05

R407F 32°C AMBIENT TEMPERATURE

Evaporating temperature °C													
Model	Electrical Supply / Code		Hp	-40		-35		-30		-25		-20	
				COOLING CAPACITY AND POWER INPUT KW									
	1Ph	3Ph		CAP.	POWER	CAP.	POWER	CAP.	POWER	CAP.	POWER	CAP.	POWER
MRC+ LT 40	50500452		11/2	0.51	0.78	0.76	0.87	1.05	1.00	1.46	1.10	1.96	1.22
MRC+ LT 50	50500453	50500455	2	0.64	1.05	1.08	1.26	1.48	1.50	2.04	1.69	2.70	1.88
MRC+ LT 60	50500454	50500456	2 1/2	0.89	1.31	1.40	1.56	2.04	1.85	2.77	2.09	3.63	2.37
MRC+ LT 80		50500457	4	1.68	2.00	2.14	2.05	2.68	2.15	3.30	2.20	4.08	2.30
MRC+ LT 90		50500458	5	2.22	2.75	2.90	2.90	3.60	3.30	4.43	3.60	5.39	3.90
MRC+ LT 100		50500459	6	2.64	3.60	3.44	3.70	4.22	4.20	5.18	4.55	6.28	4.85

R404A 32°C AMBIENT TEMPERATURE

Evaporating temperature °C													
Model	Electrical Supply / Code		Hp	-40		-35		-30		-25		-20	
				COOLING CAPACITY AND POWER INPUT kW									
	1Ph	3Ph		CAP.	POWER	CAP.	POWER	CAP.	POWER	CAP.	POWER	CAP.	POWER
MRC+ LT 40	50500452		11/2	0.61	0.88	0.87	0.98	1.18	1.12	1.60	1.25	2.07	1.40
MRC+ LT 50	50500453	50500455	2	0.76	1.18	1.23	1.43	1.66	1.67	2.23	1.92	2.85	2.17
MRC+ LT 60	50500454	50500456	2 1/2	1.06	1.47	1.61	1.76	2.28	2.06	3.03	2.38	3.83	2.73
MRC+ LT 80		50500457	4	2.00	2.25	2.46	2.32	3.00	2.40	3.61	2.50	4.31	2.65
MRC+ LT 90		50500458	5	2.70	3.00	3.32	3.10	4.05	3.50	4.79	3.80	5.63	4.20
MRC+ LT 100		50500459	6	2.99	3.75	3.95	3.85	4.75	4.15	5.60	4.55	6.56	4.90

R448A/R449A 32°C AMBIENT TEMPERATURE

Evaporating temperature °C													
Model	Electrical Supply / Code		Hp	-40		-35		-30		-25		-20	
				COOLING CAPACITY AND POWER INPUT kW									
	1Ph	3Ph		CAP.	POWER	CAP.	POWER	CAP.	POWER	CAP.	POWER	CAP.	POWER
MRC+ LT 50	50500453	50500455	2			0.96	1.12	1.39	1.34	1.89	1.56	2.46	1.79
MRC+ LT 60	50500454	50500456	2 1/2			1.20	1.36	1.75	1.62	2.42	1.90	3.23	2.21
MRC+ LT 80		50500457	4	1.76	2.34	2.23	2.36	2.79	2.38	3.46	2.48	4.22	2.62
MRC+ LT 90		50500458	5	2.38	3.13	3.01	3.14	3.77	3.48	4.58	3.77	5.51	4.15
MRC+ LT 100		50500459	6	2.64	3.94	3.58	3.92	4.42	4.14	5.36	4.52	5.18	4.87

KOOLTECH STANDARD HERMETIC CONDENSING UNITS

STANDARD HERMETIC CONDENSING UNITS

- R404A & R134A 210w to 15.5kW
 - Low / Medium / High Back Pressure
- For optional extras and accessories see page 57.



LOW BACK PRESSURE STANDARD CONDENSING UNITS

Model	Nominal HP	Displacement cc/rev	Refrigerant	Motor	Electrical details		Connections		Weight Kg	Code
					MRA	LRA	Suction	Liquid		
KHU16Z	3/8	16.1	R452A/R404A	1PH	3.05	15.35	3/8"	3/8"	24	50501000
KHU19LZ	1	18.8	R452A/R404A	1PH	3.73	26.55	1/2"	3/8"	30	50501001
KHU26LZ	1 1/2	26	R452A/R404A	1PH	5.59	34.55	1/2"	3/8"	54	50501002
Medium/high back pressure Housed hermetic condensing units										
KHU12Y	1/3	12.04	R134A	1PH	4.44	17.55	3/8"	3/8"	22	50501100
KHU14Y	1/3	14.2	R134a	1PH	4.65	20.05	3/8"	3/8"	43	50501101
KHU19Y	2/3	18.8	R134a	1PH	4.55	20.05	1/2"	3/8"	49	50501102
KHU26Y	3/4	26	R134a	1PH	6.75	32.55	1/2"	3/8"	54	50501103
KHU34Y	1	34.24	R134a	1PH	7.28	36.78	1/2"	3/8"	56	50501104
KHU9Z	1/3	8.88	R452A/R404A	1PH	3.45	15.05	3/8"	3/8"	42	50501200
KHU12Z	3/8	12.01	R452A/R404A	1PH	3.05	15.35	3/8"	3/8"	44	50501201
KHU14Z	1/2	14.14	R452A/R404A	1PH	3.45	15.75	3/8"	3/8"	44	50501202

LOW BACK PRESSURE SLIMLINE HERMETIC CONDENSING UNITS

Model	Nominal HP HP	Displacement cc/rev	Refrigerant	Motor	Electrical details		Connections		Weight Kg	Code
					MRA	LRA	Suction	Liquid		
KTL34Z	1 1/2	34.5	R452A/R448A	1PH	8.79	40.29	1/2"	3/8"	75	50501401
KTL54Z-A	1 1/2	53.1	R452A/R448A	1PH	11.75	65.85	5/8"	3/8"	80	50501402
Medium/high back pressure Slimline hermetic condensing units										
KTC19Z-A	1	18.8	R452A/R448A	1PH	6.98	26.78	1/2"	3/8"	65	50501356#1
KTC26Z	1 1/2	26	R452A/R448A	1PH	6.86	36.3	1/2"	3/8"	75	50501357
KTM34Z	1 1/2	34.5	R452A/R448A	1PH	13.23	48.73	5/8"	3/8"	74	50501410
KTM43Z	2	43.1	R452A/R448A	1PH	9.95	54.55	5/8"	3/8"	80	50501354
KTM50Z	2 1/2	50.6	R452A/R448A	1PH	12.95	85	5/8"	3/8"	83	50501398

All Standard Housed and Slimline units are fitted with:

Isolators, Crankcase heaters, HP/LP auto reset switches. Liquid line Driers and Moisture indicators/Sight Glasses. Compressor, Fan motor and Crankcase Heater are individually Protected by cartridge motor fuses.

KOOLTECH STANDARD HERMETIC CONDENSING UNITS

STANDARD HERMETIC CONDENSING UNITS R452A

Condensing Unit	Refrigerant	Refrigerating Capacity Watts at Ambient 32°C											
		-40	-35	-30	-25	-20	-15	-10	-5	0	5	10	15
CEL16Z	R452A	310	410	530	650	820	980						
KL19Z		370	500	640	780	970	1160						
KL26Z		460	605	800	1000	1220	1450						
WL40Z		917	1150	1374	1639	1947	2291						
WL43Z		1002	1228	1446	1698	1990	2343						
WL54Z		1191	1609	2007	2485	2976	3793						
CEM6Z					175	215	270	340	415	500	595		
CEM8Z		125	170	225	280	340	410	495	522	620	700		
CEM9Z					335	400	500	610	740	875	1020		
CEM12Z					385	485	620	780	945	1120	1310		
CEM14Z					460	590	745	925	1120	1325	1545		
KC19Z							999	1284	1550	1699	1848	2447	
KM26Z							1528	1959	2360	2581			
KC26Z							1512	1949	2345	2567	2790	3701	
JM31Z						1563	1975	2464	3022	3630	4274	4937	
WM38Z							2130	2650	3220	3810	4300	5000	
WM43Z							2450	3050	3700	4375	5200	5900	
WM54Z							3349	4218	5175	6236	7421	9540	

STANDARD HERMETIC CONDENSING UNITS R134A

Condensing Unit	Refrigerant	Refrigerating Capacity Watts at Ambient 32°C											
		-40	-35	-30	-25	-20	-15	-10	-5	0	5	10	15
CEM9Y	R134A						330	420	520	630	720	860	1000
CEM12Y							440	560	700	850	1000	1150	1350
CEM14Y							510	650	810	985	1160	1335	1565
CEL16Z				275	370	495	635	805	990	1210	1450		
KM 19Y							700	865	1050	1250	1450	1700	1940
JM 26Y					585	750	920	1150	1420	1670	2000	2400	2800
JM 34Y					700	1000	1230	1540	1850	2200	2600	3080	3600
WL54Z				510	860	1200	1690	2200	2830	3610	4500		

KOOLTECH HERMETIC CONDENSING UNIT ACCESSORIES AND OPTIONAL EXTRAS

HERMETIC CONDENSING UNIT ACCESSORIES AND OPTIONAL EXTRAS

- Drier and sight glasses
- 4 pole isolators
- Crankcase heater
- Fan speed controls
- Oil separators
- Pressure switches

ACCESSORIES

Model	Drier & Sight Glass	Isolator 4pole	HP/LP (Auto/Auto)	Crankcase Heater	HP/LP (Man/Auto)	Fan Speed Control	Oil Sep	HP (Auto)	LP (Auto)
CEM8Z	50507964	50507956	50507955	50507975	50507958	50023161 or 50023436	50507967	50507954	50507957
CEM9Y									
CEM9Z									
CEM12Y	50507965			50507976			50507983		
CEM12Z									
CEM14Y									
CEL16Z	50507965			50507975			50507967		
KL19Z									
CEM14Z									
KM19Y				50507976			50507983		
KC19Z									
JM26Y									
KL26Z									
KC26Z									
JM34Y									
WL40Z									
WL43Z									
WL54Z									
WM38Z									
WM43Z									
WM54Z									
			HP/LP AUTO/ AUTO Fitted as standard	Crankcase Heater Fitted as standard	HP/LP AUTO/ AUTO Fitted as standard		50507968	50507973	50507974

KOOLTECH OUTDOOR HERMETIC CONDENSING UNITS

DRESSED HOUSED HERMETIC CONDENSING UNITS

- R452A, R404A & R134A - 310w to 7.25kw
- Low / Medium / High Back Pressure
- Plastisol Zintec Steel Housing - Galvatite Base Plate - Isolator
- Fused Unit - Drier and Sight Glass - Crankcase Heater - HP / LP Switch
- Fitted Suction Line - Optional extras include Fan Speed Control and Oil Separator



LOW BACK PRESSURE HOUSED HERMETIC CONDENSING UNITS

Model	Nominal HP	Displacement cc/rev	Refrigerant	Motor	Electrical Details MRA LRA		Connections Suction	Liquid	Weight Kg	Code
KHU16Z	3/8	16.1	R452A/R404A	1PH	3.05	15.35	3/8"	3/8"	24	50501000
KHU19LZ	1	18.8	R452A/R404A	1PH	3.73	26.55	1/2"	3/8"	30	50501001
KHU26LZ	1 1/2	26	R452A/R404A	1PH	5.59	34.55	1/2"	3/8"	54	50501002

MEDIUM/HIGH BACK PRESSURE HOUSED HERMETIC CONDENSING UNITS

Model	Nominal HP	Displacement cc/rev	Refrigerant	Motor	Electrical Details MRA LRA		Connections Suction	Liquid	Weight Kg	Code
KHU12Y	1/3	12.04	R134A	1PH	4.44	17.55	3/8"	3/8"	22	50501100
KHU14Y	1/3	14.2	R134A	1PH	4.65	20.05	3/8"	3/8"	43	50501101
KHU19Y	2/3	18.8	R134A	1PH	4.55	20.05	1/2"	3/8"	49	50501102
KHU26Y	3/4	26	R134A	1PH	6.75	32.55	1/2"	3/8"	54	50501103
KHU34Y	1	34.24	R134A	1PH	7.28	36.78	1/2"	3/8"	56	50501104
KHU9Z	1/3	8.88	R452A/R404A	1PH	3.45	15.05	3/8"	3/8"	42	50501200
KHU12Z	3/8	12.01	R452A/R404A	1PH	3.05	15.35	3/8"	3/8"	44	50501201
KHU14Z	1/2	14.14	R452A/R404A	1PH	3.45	15.75	3/8"	3/8"	44	50501202

HOUSED HERMETIC CONDENSING UNITS

Condensing Unit	Refrigerant	Refrigerating Capacity Watts at Ambient 32°C											
		-40	-35	-30	-25	-20	-15	-10	-5	0	5	10	15
KHU12Y	R134A						440	560	700	850	1000	1150	1350
KHU14Y							510	650	810	985	1160	1335	1565
KHU19Y							700	865	1050	1250	1450	1700	1940
KHU26Y					585	750	920	1150	1420	1670	2000	2400	2800
KHU34Y					700	1000	1230	1540	1850	2200	2600	3080	3600
KHU16LZ		310	410	530	650	820	980						
KHU19LZ		370	500	640	780	970	1160						
KHU26LZ		460	605	800	1000	1220	1450						
KHU9Z	R452A				335	400	500	610	740	875	1020		
KHU12Z					385	485	620	780	945	1120	1310		
KHU14Z					460	590	745	925	1120	1325	1545		

KOOLTECH OUTDOOR HERMETIC CONDENSING UNITS

SLIMLINE HERMETIC CONDENSING UNITS

- R452A, R404A & R134A - 590w to 7.25kw
- Low / Medium / High Back Pressure
- Plastisol Leather Finish Zintec Steel Housing - Galvatite Base Plate - Isolator - Fused Unit - Drier and Sight Glass
- Crankcase Heater - HP / LP Switch
- Extended Copper Connection Stubs
- Optional extras include Fan Speed Control and Oil Separator



LOW BACK PRESSURE SLIMLINE HERMETIC CONDENSING UNITS

Model	Nominal HP	Displacement cc/rev	Refrigerant	Power Supply	Electrical Details		Connections		Weight Kg	Code
					MRA	LRA	Suctio	Liquid		
KTL40Z	1	39.6	R404A/R134A	1PH	5.05	32.55	5/8"	3/8"	80	50501350
KTL43Z	1.1/4	43.1	R404A/R134A	1PH	6.05	32.55	5/8"	3/8"	80	50501351
KTL54Z	1.1/2	53.1	R404A/R134A	1PH	8.45	43.55	5/8"	3/8"	80	50501352

MEDIUM/HIGH BACK PRESSURE SLIMLINE HERMETIC CONDENSING UNITS

Model	Nominal HP	Displacement cc/rev	Refrigerant	Power Supply	Electrical Details		Connections		Weight Kg	Code
					MRA	LRA	Suctio	Liquid		
KTC19Z	1	18.8	R452A/R404A	1PH	6.98	26.78	1/2"	3/8"	65	50501356
KTC26Z	1.1/2	26	R452A/R404A	1PH	6.86	36.3	1/2"	3/8"	75	50501357
KTM38Z	1.1/2	37.5	R452A/R404A	1PH	8.75	51.55	5/8"	3/8"	80	50501353
KTM43Z	2	43.1	R452A/R404A	1PH	9.95	54.55	5/8"	3/8"	80	50501354
KTM54Z	2.1/2	53.5	R452A/R404A	1PH	13.25	83.55	5/8"	3/8"	80	50501355

All Standard Housed and Slimline units are fitted with: Isolators, Crankcase heaters, HP/LP auto reset switches, Liquid line Driers and Moisture indicators/Sight Glasses. Compressor, Fan motor and Crankcase Heater are individually Protected by cartridge motor fuses. * Twin fan unit

CAPACITY TABLES

Condensing Unit	Refrigerant	Capacity Watts at Ambient 32°C											
		-40	-35	-30	-25	-20	-15	-10	-5	0	5	10	15
KTL40Z	R452A	917	1150	1374	1639	1947	2291						
KTL43Z		1002	1228	1446	1698	1990	2343						
KTL54Z		1191	1608	2007	2485	2976	3793						
KTC19Z							1000	1299	1573	1725	1877	2481	
KTC26Z							1512	1949	2345	2567	2790	3701	
KTM38Z							2130	2650	3220	3810	4300	5000	
KTM43Z							2450	3050	3700	4375	5200	5900	
KTM54Z							3318	4171	5129	6175	7348	9426	

FRASCOLD SEMI-HERMETIC COMPRESSORS

Model	Nominal HP	Displacement M3/hr	Connections Internal Suction Discharge	Electrical Detail MRA LRA LRA	Motor	Oil Charge (32)	Weight Kg	Code
A 16Y	1	5.47	5/8" 1/2"	7.6 40.1	1PH	1.2L	36	50020009
A 1.5 7Y	1.5	6.91	5/8" 1/2"	10.6 50.3	1PH	1.2L	36	50020011
B 1.5 9Y	1.5	8.96	5/8" 1/2"	10.6 50.3	1PH	1.2L	38	50020013
B 210Y	2	9.84	3/4" 5/8"	13 65.6	1PH	1.2L	40	50020015
A 1.5 7Y	1.5	6.91	5/8" 1/2"	5.3 19.7	DDL	1.2L	36	50020038
B 1.5 9Y	1.5	8.96	5/8" 1/2"	5.3 19.7	DOL	1.2L	38	50020040
D 21Y	2	11.26	7/8" 5/8"	6.8 24.9	DOL	1.2L	45	50020043
D 213Y	2	13.84	7/8" 5/8"	6.8 24.9	DOL	1.2L	45	50020044
D 313Y	3	13.84	1 1/8" 5/8"	9.6 32.9	DOL	1.2L	49	50020045
D 315Y	3	15.36	1 1/8" 5/8"	9.6 32.9	DOL	1.2L	49	50020047
D 416Y	4	16.39	1 1/8" 3/4"	10.5 41.9	DOL	1.2L	51	50020049
D 318Y	3	17.93	1 1/8" 5/8"	9.6 32.9	DOL	1.2L	49	50020051
Q5 21Y	5	21.17	1 1/8" 3/4"	12.2 56.9	DOL	1.8L	74	50020031
Q5 25Y	5	24.69	1 1/8" 7/8"	12.2 56.9	DOL	1.8L	76	50020024
Q 7 25Y	7.5	24.69	1 3/8" 1 1/8"	17.5 91.4	DOL	1.8L	79	50020022
Q 5 28Y	5	27.88	1 3/8" 7/8"	12.2 56.9	DOL	1.8L	79	50020025
Q 7 28Y	7.5	27.88	1 3/8" 1 1/8"	17.5 91.4	DOL	1.8L	79	50020026
S 5 33Y	5	32.8	1 3/8" 1 1/8"	12.3 55.8 36.8	PWS	3.3L	79	50020114
S 7 33Y	7.5	32.8	1 3/8" 1 1/8"	17 74.6 49.2	PWS	3.3L	79	50020115
S 8 42Y	7.5	41.32	1 3/8" 1 1/8"	20.3 90.3 52.7	PWS	3.3L	117	50020020
S12 42Y	10	41.32	1 3/8" 1 1/8"	22.4 102.2 59.1	PWS	3.3L	120	50020021
S 10 52Y	10	51.5	1 3/8" 1 1/8"	24.2 102.69 59.5	PWS	3.3L	120	50020176
S15 52Y	15	51.5	1 5/8" 1 1/8"	31.5 117.1 74.8	PWS	3.3L	126	50020177
S 15 56Y	15	56	1 5/8" 1 1/8"	31 118 77.8	PWS	3.3L	120	50020120
S 20 56Y	20	56	1 5/8" 1 1/8"	37 146 96.7	PWS	3.3L	132	50020121
V 15 59Y	15	58.48	1 5/8" 1 1/8"	31 118 77.8	PWS	4.5L	170	50020122
V 20 59Y	20	58.48	1 5/8" 1 1/8"	37 146 96.7	PWS	4.5L	174	50020123
V 15 71Y	15	70.77	1 5/8" 1 1/8"	31 118 77.8	PWS	4.5L	170	50020124
V 25 71Y	25	70.77	2 1/8" 1 3/8"	45 172 113	PWS	4.5L	184	50020125
V 20 84Y	20	83.81	1 5/8" 1 1/8"	37 146 96.7	PWS	4.5L	180	50020126
V 30 84Y	30	83.81	2 1/8" 1 3/8"	53 185 122	PWS	4.5L	187	50020127
V 25 93Y	25	93.05	2 1/8" 1 3/8"	45 172 113	PWS	4.5L	190	50020109
V 32 93Y	32	93.05	2 1/8" 1 3/8"	57 205 136	PWS	4.5L	192	50020110
V 25 103Y	25	102.9	2 1/8" 1 3/8"	45 172 113	PWS	4.5L	190	50020111
V 35 103Y	35	102.9	2 1/8" 1 3/8"	61 225 148	PWS	4.5L	193	50020112
Z 25 106Y	25	106.16	2 1/8" 1 3/8"	45 172 113	PWS	4.5L	220	50020128
Z 35 106Y	35	106.16	2 1/8" 1 3/8"	61 225 148	PWS	4.5L	223	50020129
Z 30 126Y	30	125.72	2 1/8" 1 3/8"	53 185 122	PWS	4.5L	229	50020130
Z 40 126Y	40	125.72	2 5/8" 1 5/8"	75 263 173	PWS	4.5L	240	50020131
W 40 142Y	40	141.5	2 5/8" 1 5/8"	90 300 198	PWS	BL	295	50020132
Z 40 154Y	40	154.38	2 5/8" 1 5/8"	75 263 173	PWS	7.5L	240	50020133
Z 50 154Y	50	154.38	2 5/8" 1 5/8"	92.5 308 203	PWS	7.5L	244	50020134
W 40 168Y	40	167.6	2 5/8" 1 5/8"	90 300 198	PWS	BL	299	50020135
W 50 168Y	50	167.6	3 1/8" 1 5/8"	101 314 208	PWS	BL	305	50020136
W 50 187Y	50	186.1	3 1/8" 1 5/8"	101 314 208	PWS	BL	311	50020137
W 60 187Y	60	186.1	3 1/8" 1 5/8"	114 366 241	PWS	BL	315	50020138
W 60 206Y	60	205.8	3 1/8" 2 1/8"	114 366 241	PWS	BL	320	50020139
W 70 206Y	70	205.8	3 1/8" 3 1/8"	125 475 313	PWS	BL	328	50020140
W 70 228Y	70	227.77	3 1/8" 3 1/8"	125 475 313	PWS	BL	328	50020143
W75 228Y	75	227.77	3 1/8" 3 1/8"	136 509 340	PWS	BL	328	50020142
W 75 240Y	75	239.02	3 1/8" 3 1/8"	136 509 340	PWS	BL	328	50020144
W 80 240Y	80	239.02	3 1/8" 3 1/8"	136 509 340	PWS	BL	328	50020145

frascold

EVAPORATORS AND CELLAR COOLING



RIVACOLD EVAPORATORS

RIVACOLD EVAPORATORS

A full range of quality Rivacold evaporators are available from Kooltech. These products cover a wide range of capacities and applications for cold rooms suited for frozen and fresh goods storage.

- Compact dimensions
- Wide range of capacities ranging from -35°C to +15°C room temperatures
- Electric defrost available throughout the range
- AC fan motors fitted with thermal protection
- EC fan motor options available for all models
- Finished in aluminium housings with an option for white painted finish
- Drainage pipe heaters available for all models
- Peripheral heaters available for RCMR and RCBR models
- Various coil coating options available (cataphoresis, Blygold etc.)

Our applications engineers are at hand to help you select the product that best suits your application. Contact one of our branches with your enquiry.

RC/RCS-CEILING CUBIC UNIT COOLERS

Fan motors operate in suction mode to prevent condensate forming on the fan.



EVAPORATORS

Model	Capacity (watts)	No. of Fans	Fan Diameter
RS	109-2640	1-4	200
RSV	350-2930	1-2	200
RSI 250	440-5380	1-4	250
RSI 350	1580-11600	2-4	350
RC	602-7380	1-4	250
RCS	410-8120	1-4	250
RCMR	1840-22400	1-4	350/450
RDF 250	400-5710	1-4	250
RDF 350	1630-17400	2-5	300
RDFR 500	3260-82050	1-4	500
RCBR 500	2950-59800	1-4	500
RCBR 630	3180-71200	1-4	630

RC EVAPORATORS - MEDIUM TEMPERATURE

Model	Code	Duty Evaporating (SC2 -80C/00C)* kW	Total Surface Area m2	Total Power W	Total Current A	Number of Fans	Fan Diameter mm	Fin Spacing mm	Defrost Type	Defrost Power
RC125-16 ED CB	60048391	1.66	5.59	65	0.45	1	250	5.3	Electric	750
RC225-25 ED CB	60048393	2.62	7.36	130	0.9	2	250	5.3	Electric	1350
RC225-30 ED CB	60048395	3.34	11	130	0.9	2	250	5.3	Electric	1350
RC325-33 ED CB	60048397	3.97	11	195	1.35	3	250	5.3	Electric	1950
RC325-45 ED CB	60048399	4.80	16.5	195	1.35	3	250	5.3	Electric	1950
RC425-61 ED CB	60048401	6.58	21.9	260	1.8	4	250	5.3	Electric	2700

* Refrigerant R449A DEW Point

RC EVAPORATORS - LOW TEMPERATURE

Model	Code	Duty Evaporating (SC3 -250C/-180C)* kW	Total Surface Area m2	Total Power W	Total Current A	Number of Fans	Fan Diameter mm	Fin Spacing mm	Defrost Type	Defrost Power
RC125-16 ED CB	60048391	1.19	5.59	65	0.45	1	250	5.3	Electric	750
RC225-25 ED CB	60048393	1.81	7.36	130	0.9	2	250	5.3	Electric	1350
RC225-30 ED CB	60048395	2.36	11	130	0.9	2	250	5.3	Electric	1350
RC325-33 ED CB	60048397	2.78	11	195	1.35	3	250	5.3	Electric	1950
RC325-45 ED CB	60048399	3.23	16.5	195	1.35	3	250	5.3	Electric	1950
RC425-61 ED CB	60048401	4.59	21.9	260	1.8	4	250	5.3	Electric	2700

RIVACOLD EVAPORATORS



RCMR-CEILING CUBIC UNIT COOLERS

Designed for medium sized cold rooms.



RCMR 350 EVAPORATORS - MEDIUM TEMPERATURE * Refrigerant R449A DEW Point

Model	Code	Duty Evaporating (SC2 -8oC/0oC)* kW	Total Surface Area m2	Total Power W	Total Current A	Number of Fans	Fan Diameter mm	Fin Spacing mm	Defrost Type	Defrost Power
RCMR1350604 ED CB	60048411	6.39	23.9	130	0.58	1	350	4	Electric	2250
RCMR1350606 ED CB	60048413	5.70	16.5	130	0.58	1	350	6	Electric	2250
RCMR1350608 ED CB	60048415	5.06	12.8	130	0.58	1	350	8	Electric	2250
RCMR2350404 ED CB	60048417	9.25	24.3	260	1.16	2	350	4	Electric	2500
RCMR2350406 ED CB	60048421	8.06	16.8	260	1.16	2	350	6	Electric	2500
RCMR2350408 ED CB	60048425	6.91	13	260	1.16	2	350	8	Electric	2500
RCMR2350804 ED CB	60048419	11.24	48.6	260	1.16	2	350	4	Electric	3900
RCMR2350806 ED CB	60048423	11.13	33.5	260	1.16	2	350	6	Electric	3900
RCMR2350808 ED CB	60048427	10.61	26	260	1.16	2	350	8	Electric	3900

RCMR 350 EVAPORATORS - LOW TEMPERATURE * Refrigerant R449A DEW Point

Model	Code	Duty Evaporating (SC2 -25oC/18oC)* kW	Total Surface Area m2	Total Power W	Total Current A	Number of Fans	Fan Diameter mm	Fin Spacing mm	Defrost Type	Defrost Power
RCMR1350606 ED CB	60048413	4.07	16.5	130	0.58	1	350	6	Electric	2250
RCMR1350608 ED CB	60048415	3.67	12.8	130	0.58	1	350	8	Electric	2250
RCMR2350406 ED CB	60048421	6.00	16.8	260	1.16	2	350	6	Electric	2500
RCMR2350408 ED CB	60048425	5.20	13	260	1.16	2	350	8	Electric	2500
RCMR2350806 ED CB	60048423	8.01	33.5	260	1.16	2	350	6	Electric	3900
RCMR2350808 ED CB	60048427	7.69	26	260	1.16	2	350	8	Electric	3900
RCMR3350606 ED CB	60048431	10.80	35.9	390	1.74	3	350	6	Electric	4646
RCMR3350608 ED CB	60048433	9.92	27.9	390	1.74	3	350	8	Electric	4646

RSV EVAPORATORS - MEDIUM TEMPERATURE * Refrigerant R449A DEW Point

Model	Code	Duty Evaporating (SC2 -8oC/0oC)* kW	Total Surface Area m2	Total Power W	Total Current A	Number of Fans	Fan Diameter mm	Fin Spacing mm	Defrost Type	Defrost Power
RSV1200405 ED CB	60048361	0.73	2.83	62	0.27	1	200	5	Electric	650
RSV1200605 ED CB	60048324	0.95	4.25	62	0.27	1	200	5	Electric	650
RSV2200405 ED CB	60048365	1.34	5.15	124	0.54	2	200	5	Electric	1200
RSV2200605 ED CB	60048367	1.76	7.73	124	0.54	2	200	5	Electric	1200

RSV EVAPORATORS - LOW TEMPERATURE * Refrigerant R449A DEW Point

Model	Code	Duty Evaporating (SC2 -25oC/18oC)* kW	Total Surface Area m2	Total Power W	Total Current A	Number of Fans	Fan Diameter mm	Fin Spacing mm	Defrost Type	Defrost Power
RSV1200405 ED CB	60048361	0.73	2.83	62	0.27	1	200	5	Electric	650
RSV1200605 ED CB	60048324	0.95	4.25	62	0.27	1	200	5	Electric	650
RSV2200405 ED CB	60048365	1.34	5.15	124	0.54	2	200	5	Electric	1200
RSV2200605 ED CB	60048367	1.76	7.73	124	0.54	2	200	5	Electric	1200

RIVACOLD EVAPORATORS



RSI-CEILING UNIT COOLERS

Available in 250mm and 350mm fan diameters.



RSI 250 EVAPORATORS - MEDIUM TEMPERATURE

Model	Code	Duty Evaporating (SC2 -80C/00C)* kW	Total Surface Area m2	Total Power W	Total Current A	Number of Fans	Fan Diameter mm	Fin Spacing mm	Defrost Type	Defrost Power
RSI1250 ED CB	60068371	1.21	3.73	60	0.5	1	250	5.3	Electric	500
RSI2250 ED CB	60048373	2.44	7.36	120	1	2	250	5.3	Electric	900
RSI3250 ED CB	60048375	3.7	11	180	1.5	3	250	5.3	Electric	1300
RSI4250 ED CB	60048377	4.83	14.6	240	2	4	250	5.3	Electric	1800

* Refrigerant R449A DEW Point

RSI 250 EVAPORATORS - LOW TEMPERATURE

Model	Code	Duty Evaporating (SC2 -250C/180C)* kW	Total Surface Area m2	Total Power W	Total Current A	Number of Fans	Fan Diameter mm	Fin Spacing mm	Defrost Type	Defrost Power
RSI1250 ED CB	60068371	0.88	3.73	60	0.5	1	250	5.3	Electric	500
RSI2250 ED CB	60048373	1.71	7.36	120	1	2	250	5.3	Electric	900
RSI3250 ED CB	60048375	2.61	11	180	1.5	3	250	5.3	Electric	1300
RSI4250 ED CB	60048377	3.29	14.6	240	2	4	250	5.3	Electric	1800

* Refrigerant R449A DEW Point

RSI 350 EVAPORATORS - MEDIUM TEMPERATURE

Model	Code	Duty Evaporating (SC2 -80C/00C)* kW	Total Surface Area m2	Total Power W	Total Current A	Number of Fans	Fan Diameter mm	Fin Spacing mm	Defrost Type	Defrost Power
RSI23503 ED CB	60048381	5.44	24.7	260	1.16	2	350	3.5	Electric	2800
RSI23507 ED CB	60048382	4.81	13.2	260	1.16	2	350	7	Electric	2800
RSI33503 ED CB	60048384	7.85	34.5	390	1.74	3	350	3.5	Electric	4096
RSI33507 ED CB	60048385	6.88	18.8	390	1.74	3	350	7	Electric	4096
RSI43503 ED CB	60048387	10.38	46	520	2.32	4	350	3.5	Electric	5360
RSI43507 ED CB	60048389	9.04	24.4	520	2.32	4	350	7	Electric	5360

* Refrigerant R449A DEW Point

RSI 350 EVAPORATORS - LOW TEMPERATURE

Model	Code	Duty Evaporating (SC2 -250C/180C)* kW	Total Surface Area m2	Total Power W	Total Current A	Number of Fans	Fan Diameter mm	Fin Spacing mm	Defrost Type	Defrost Power
RSI23507 ED CB	60048382	3.45	13.2	260	1.16	2	350	7	Electric	2800
RSI33507 ED CB	60048385	5.01	18.8	390	1.74	3	350	7	Electric	4096
RSI43507 ED CB	60048389	6.63	24.4	520	2.32	4	350	7	Electric	5360

* Refrigerant R449A DEW Point

RIVACOLD EVAPORATORS



RDF 250 / 350 EVAPORATORS

Ceiling unit cooler designed to be mounted in the middle of a ceiling giving uniform air flow



RDF 250 EVAPORATORS - MEDIUM TEMPERATURE

Model	Code	Duty Evaporating (SC2 -8oC/0oC)* kW	Total Surface Area m2	Total Power W	Total Current A	Number of Fans	Fan Diameter mm	Fin Spacing mm	Defrost Type	Defrost Power
RDF1250 ED CB	60048331	1.1	3.55	60	0.5	1	250	4.5	Electric	800
RDF2250 ED CB	60048333	2.32	8.07	120	1	2	250	4.5	Electric	1650
RDF3250 ED CB	60048335	3.79	12.6	180	1.5	3	250	4.5	Electric	2500
RDF4250 ED CB	60048337	5.15	17.1	240	2	4	250	4.5	Electric	3150

* Refrigerant R449A DEW Point

RDF 250 EVAPORATORS - LOW TEMPERATURE

Model	Code	Duty Evaporating (SC2 -25oC/18oC)* kW	Total Surface Area m2	Total Power W	Total Current A	Number of Fans	Fan Diameter mm	Fin Spacing mm	Defrost Type	Defrost Power
RDF1250 ED CB	60048331	0.8	3.55	60	0.5	1	250	4.5	Electric	800
RDF2250 ED CB	60048333	1.5	8.07	120	1	2	250	4.5	Electric	1650
RDF3250 ED CB	60048335	2.58	12.6	180	1.5	3	250	4.5	Electric	2500
RDF4250 ED CB	60048337	3.6	17.1	240	2	4	250	4.5	Electric	3150

* Refrigerant R449A DEW Point

RDF 350 EVAPORATORS - MEDIUM TEMPERATURE

Model	Code	Duty Evaporating (SC2 -8oC/0oC)* kW	Total Surface Area m2	Total Power W	Total Current A	Number of Fans	Fan Diameter mm	Fin Spacing mm	Defrost Type	Defrost Power
RDF23503 ED CB	60048341	7.14	27.5	300	1.32	2	350	3.5	Electric	2200
RDF23507 ED CB	60048343	5.76	14.6	300	1.32	2	350	7	Electric	2200
RDF33503 ED CB	60048345	10.19	39.3	450	1.98	3	350	3.5	Electric	3098
RDF33507 ED CB	60048347	8.44	20.9	450	1.98	3	350	7	Electric	3098
RDF43503 ED CB	60048349	13.54	51.1	600	2.64	4	350	3.5	Electric	4080
RDF43507 ED CB	60048351	11.07	27.1	600	2.64	4	350	7	Electric	4080
RDF53503 ED CB	60048353	16.27	62.9	750	3.3	5	350	3.5	Electric	4680
RDF53507 ED CB	60048355	13.54	33.4	750	3.3	5	350	7	Electric	4680

* Refrigerant R449A DEW Point, High Speed 1350rpm

RDF 350 EVAPORATORS - LOW TEMPERATURE

Model	Code	Duty Evaporating (SC2 -25oC/18oC)* kW	Total Surface Area m2	Total Power W	Total Current A	Number of Fans	Fan Diameter mm	Fin Spacing mm	Defrost Type	Defrost Power
RDF23507 ED CB	60048343	4.18	14.6	300	1.32	2	350	7	Electric	2200
RDF33507 ED CB	60048347	5.81	20.9	450	1.98	3	350	7	Electric	3098
RDF43507 ED CB	60048351	6.96	27.1	600	2.64	4	350	7	Electric	4080
RDF53507 ED CB	60048355	9.25	33.4	750	3.3	5	350	7	Electric	4680

* Refrigerant R449A DEW Point, High Speed 1350rpm

MARSTAIR CELLAR COOLERS

MARSTAIR
REFRIGERATION AND CLIMATE CONTROL

CELLARATOR CELLAR COOLER SPLIT SYSTEMS

- LP Switch, 3 Minute Timer, Randon Start Contactor, De-Ice Stat.
- Available in 2 versions - Electromechanical version and Electronic Control.
- Indoor units comes in high impact Marble Grey moulded polymer cabinet impregnated with anti-bacterial additive.
- Supplied with mounting brackets suitable for wall and ceiling mounting.
- Direct access to the electronics at the front of the unit and waterproof power switch.
- ABS drain tray incorporating standard 22mm OD fitting drain stub.
- Electric heating available - see accessories.



MARSTAIR CXE CELLARATOR CELLAR COOLER SPLIT SYSTEMS R410A.

UP TO 25M PIPE RUN available in 4 capacities 2.3 to 5.6Kw. Available in 2 versions - CXA Electromechanical version, CXEA with Electronic Control.
Pre-charged R410A up to 7.5M pipe run.

INDOOR UNIT						OUTDOOR UNIT	
Electronic Control		Cellar 8°C		Cellar 12.7°C		1 Ph	
Model	Code	kW	SHR	kW	SHR	Model	Code
CXE A30	10120505	1.79	0.84	2.28	0.87	CKA35	10120510#1
CXE A50	10120506	3.06	0.77	3.25	0.76	CKA35	10120510#1
CXE A50	10120506	3.44	0.70	4.25	0.68	CKA50	10120511#1
CXE A70	10120507	4.54	0.70	5.60	0.68	CKA70	10120512#1

CXE R410A - APPROXIMATE GUIDE TO CELLAR SIZING IN M3 AT 27°C AMBIENT

SYSTEM	CELLAR IN m3 ABOVE GROUND		CELLAR IN m3 BELOW GROUND	
	8°C	12.7°C	8°C	12.7°C
CX(E)A 30 / CKA 35	20	26	25	36
CX(E)A 50 / CKA 35	27	38	44	63
CX(E)A 50 / CKA 50	38	54	62	89
CX(E)A 70 / CKA 70	54	78	88	125

Cellar selection guide and sizing is based on the following; a) Standard cellar construction. b) Maximum product load 16l/m³. c) Product cooling time 24hrs (Normal plant running time 18hrs). d) Product entering room 25°C.

MARSTAIR CXE CELLARATOR CELLAR COOLER SPLIT SYSTEMS 407C

UP TO 80M PIPE RUN
Nitrogen charged. Optional ducted condensing units for where external installations are not feasible.

INDOOR UNIT						OUTDOOR UNIT		
Electronic Control		Cellar 8°C		Cellar 12.7°C			1 Ph	3 Ph
Model	Code	kW	SHR	kW	SHR	Model	Code	Code
CXE30	10120555	2.45	0.67	2.80	0.65	CKC20	10120560#2	
CXE40	10120556	3.00	0.63	3.60	0.65	CKC30	10120561#2	
CXE50	10120557	4.40	0.62	5.20	0.63	CKC50	10120563#2	
CXE70	10120558	6.10	0.60	7.20	0.64	CKC80	10120565#2	10120566#2
CXE90	10120524	7.30	0.59	8.50	0.62	CKC90	10120578	10120571#1

MARSTAIR CELLAR COOLERS

MARSTAIR CXE CELLARATOR CELLAR COOLER SPLIT SYSTEMS 407C WITH PUMP DOWN UPTO 80M PIPE RUN. Electronic control. Nitrogen charged.

INDOOR UNIT						OUTDOOR UNIT	
Electronic Control		Cellar 8°C		Cellar 12.7°C		1 Ph	
Model	Code	kW	SHR	kW	SHR	Model	Code
CXE30 PD	10120520	2.45	0.67	2.80	0.65	CKC20 PD	10120530
CXE40 PD	10120521	3.00	0.63	3.60	0.65	CKC30 PD	10120531
CXE50 PD	10120522	4.40	0.62	5.20	0.63	CKC50 PD	10120532
CXE70 PD	10120523	6.10	0.60	7.20	0.64	CKC80 PD	10120533
CXE90 PD	10120524	7.30	0.59	8.50	0.52	CKC90 PD	10120534

*Electronic heating available - See Accessories. Cooling duties rated at 27°C db outdoor

CXE R407C - APPROXIMATE GUIDE TO CELLAR SIZING IN M3 AT 27°C AMBIENT

SYSTEM	CELLAR IN m3 ABOVE GROUND		CELLAR IN m3 BELOW GROUND	
	8°C	12.7°C	8°C	12.7°C
CX(E) 30 + CKC / DCU+ 20	22	31	36	52
CX(E) 40 + CKC / DCU+ 30	30	44	51	72
CX(E) 50 + CKC / DCU+ 50	49	71	80	114
CX(E) 70 + CKC / DCU+ 80	75	108	118	169
CX(E) 90 + CKC / DCU+ 90	93	133	144	206

Cellar selection guide and sizing is based on the following: a) Standard cellar construction. b) Maximum product load 16l/m³. c) Product cooling time 24hrs (Normal plant running time 18hrs). d) Product entering room 25°C.

LOW TEMPERATURE SPLIT SYSTEM

INDOOR UNIT				OUTDOOR UNIT	
Electronic Control		Cellar 4°C		1 Ph	
Model	Code	Cooling kW	SHR	Model	Code
CXE40	10120556	2.1	0.76	CKC20	10120560#1
CXE50	10120557	3.3	0.75	CKC40	10120562#1
CXE70	10120558	5.0	0.71	CKC60	10120564#2
CXE90	10120559	5.9	0.68	CKC80	10120565#2

LOW TEMPERATURE SPLIT SYSTEM WITH PUMP DOWN

*Electronic heating available - See Accessories. Cooling duties rated at 5°Cdb/3°C wb indoor, 27°C db outdoor

INDOOR UNIT				OUTDOOR UNIT	
Electronic Control		Cellar 4°C		1 Ph	
Model	Code	Cooling kW	SHR	Model	Code
CXE40 PD	10120521	2.3	0.85	CKC20 PD	10120530
CXE50 PD	10120522	3.5	0.80	CKC40 PD	10120535
CXE70 PD	10120523	5.0	0.70	CKC60 PD	10120536
CXE90 PD	55917010	5.9	0.68	CKC80 PD	10120533

ACCESSORIES * For narrow cellar environments requiring an airflow of 30-45m

CXA / CXEA / CX / CXE ACCESSORIES		
Model		
Electric Heater Kit 3KW 230V Factory Fitted		10120581
Electric Heater Kit 3KW 230V Field Fit		10120583
Air Straightener Kit*		10120584
Extended Pipe Run Kit (CX/E 30,40,50)		10120585
Extended Pipe Run Kit (CX/E 70)		10120586

RIVACOLD CO2/R744 EVAPORATORS

RIVACOLD EVAPORATORS

A range of quality Rivacold CO2 / R744 evaporators are available from Kooltech covering capacities from 2-22kW for coldrooms suited for frozen and fresh goods storage.

- Aluminium housing
- Compact dimensions
- Wide range of capacities for low and medium temperatures
- All supplied with mounted defrost heaters "ED" (non Electric defrost available on request)
- Supplied as standard with EC fan motors "B"



RCX 250 / 350 EVAPORATORS
Cubic unit cooler

Our applications engineers are at hand to help you select the product that best suits your application. Contact one of our branches with your enquiry.

RCXB 250 EVAPORATORS - MEDIUM TEMPERATURE

Model	Code	Duty Evaporating (SC2 -80C/0oC)* kW	Total Surface Area m2	Total Power W	Total Current A	Number of Fans	Fan Diameter mm	Fin Spacing mm	Defrost Type	Defrost Power
RCX12506 ED CB	60048451	1.2	5.69	25	0.26	1	250	5.3	Electric	750
RCX22504 ED CB	60048452	1.9	7.52	50	0.51	2	250	5.3	Electric	1350
RCX22506 ED CB	60048453	2.5	11.29	50	0.51	2	250	5.3	Electric	1350
RCX32504 ED CB	60048454	2.95	11.26	75	0.77	3	250	5.3	Electric	1950
RCX32506 ED CB	60048455	3.67	16.88	75	0.77	3	250	5.3	Electric	1950
RCX42506 ED CB	60048456	4.94	22.48	100	1.02	4	250	5.3	Electric	2700

* Refrigerant R744

RCXB 250 EVAPORATORS - LOW TEMPERATURE

Model	Code	Duty Evaporating (SC2 -80C/0oC)* kW	Total Surface Area m2	Total Power W	Total Current A	Number of Fans	Fan Diameter mm	Fin Spacing mm	Defrost Type	Defrost Power
RCX12506 ED CB	60048451	0.89	5.69	25	0.26	1	250	5.3	Electric	750
RCX22504 ED CB	60048452	1.46	7.52	50	0.51	2	250	5.3	Electric	1350
RCX22506 ED CB	60048453	1.84	11.29	50	0.51	2	250	5.3	Electric	1350
RCX32504 ED CB	60048454	2.22	11.26	75	0.77	3	250	5.3	Electric	1950
RCX32506 ED CB	60048455	2.69	16.88	75	0.77	3	250	5.3	Electric	1950
RCX42506 ED CB	60048456	3.76	22.48	100	1.02	4	250	5.3	Electric	2700

* Refrigerant R744

RIVACOLD CO2/R744 EVAPORATORS

RSIX 250 / 350 EVAPORATORS

Ceiling unit cooler with compact dimensions



RSIX 250 EVAPORATORS - MEDIUM TEMPERATURE

Model	Code	Duty Evaporating (SC2 -80C/00C)* kW	Total Surface Area m2	Total Power W	Total Current A	Number of Fans	Fan Diameter mm	Fin Spacing mm	Defrost Type	Defrost Power
RSIXB1250 ED	60048440	0.8	3.79	25	0.26	1	250	5.3	Electric	500
RSIXB2250 ED	60048441	1.79	7.52	50	0.51	2	250	5.3	Electric	900
RSIXB3250 ED	60048442	2.76	11.26	75	0.77	3	250	5.3	Electric	1300
RSIXB4250 ED	60048443	3.67	14.99	100	100	4	250	5.3	Electric	1800

* Refrigerant R744

RSIX 250 EVAPORATORS - LOW TEMPERATURE

Model	Code	Duty Evaporating (SC2 -250C/180C)* kW	Total Surface Area m2	Total Power W	Total Current A	Number of Fans	Fan Diameter mm	Fin Spacing mm	Defrost Type	Defrost Power
RSIXB1250 ED	60048440	0.56	3.79	25	0.26	1	250	5.3	Electric	500
RSIXB2250 ED	60048441	1.37	7.52	50	0.51	2	250	5.3	Electric	900
RSIXB3250 ED	60048442	2.05	11.26	75	0.77	3	250	5.3	Electric	1300
RSIXB4250 ED	60048443	2.81	14.99	100	100	4	250	5.3	Electric	1800

* Refrigerant R744

RSIX 350 EVAPORATORS - MEDIUM TEMPERATURE

Model	Code	Duty Evaporating (SC2 -80C/00C)* kW	Total Surface Area m2	Total Power W	Total Current A	Number of Fans	Fan Diameter mm	Fin Spacing mm	Defrost Type	Defrost Power
RSIXB23503 ED	60048444	5.39	25.23	320	2.6	2	350	3.5	Electric	2500
RSIXB23507 ED	60048447	3.76	13.32	320	2.6	2	350	7	Electric	2500
RSIXB33503 ED		7.28	35.99	480	3.9	3	350	3.5	Electric	3622
RSIXB33507 ED	60048448	4.69	19.01	480	3.9	3	350	7	Electric	3622
RSIXB43503 ED		10.13	46.84	640	5.2	4	350	3.5	Electric	4720
RSIXB43507 ED		6.94	24.69	640	5.2	4	350	7	Electric	4720

* Refrigerant R744

RSIX 350 EVAPORATORS - LOW TEMPERATURE

Model	Code	Duty Evaporating (SC2 -250C/180C)* kW	Total Surface Area m2	Total Power W	Total Current A	Number of Fans	Fan Diameter mm	Fin Spacing mm	Defrost Type	Defrost Power
RSIXB23507 ED	60048447	2.67	13.32	320	2.6	2	350	7	Electric	2500
RSIXB33507 ED	60048448	3.03	19.01	480	3.9	3	350	7	Electric	3622
RSIXB43507 ED		4.9	24.69	640	5.2	4	350	7	Electric	4720

* Refrigerant R744

RIVACOLD CO2/R744 EVAPORATORS

RDF/RDFR CEILING UNIT COOLERS DUAL AIR FLOW

Dual air flow ideal for mounting in the middle of a cold room.



RDFX 250 EVAPORATORS - MEDIUM TEMPERATURE

Model	Code	Duty Evaporating (SC3 -80C/00C)* kW	Total Surface Area m2	Total Power W	Total Current A	Number of Fans	Fan Diameter mm	Fin Spacing mm	Defrost Type	Defrost Power
RDFXB2250 ED	60048480	1.75	8.38	50	0.51	2	250	4.5	Electric	1650
RDFXB3250 ED	60048481	3.03	13.1	75	0.77	3	250	4.5	Electric	2500
RDFXB4250 ED	60048482	3.81	17.82	100	1.02	4	250	4.5	Electric	3150

* Refrigerant R744

RDFX 250 EVAPORATORS - LOW TEMPERATURE

Model	Code	Duty Evaporating (SC3 -250C/-180C)* kW	Total Surface Area m2	Total Power W	Total Current A	Number of Fans	Fan Diameter mm	Fin Spacing mm	Defrost Type	Defrost Power
RDFXB2250 ED	60048480	1.16	8.38	50	0.51	2	250	4.5	Electric	1650
RDFXB3250 ED	60048481	2.22	13.1	75	0.77	3	250	4.5	Electric	2500
RDFXB4250 ED	60048482	2.63	17.82	100	1.02	4	250	4.5	Electric	3150

* Refrigerant R744

RDFX 350 EVAPORATORS - MEDIUM TEMPERATURE

Model	Code	Duty Evaporating (SC3 -80C/00C)* kW	Total Surface Area m2	Total Power W	Total Current A	Number of Fans	Fan Diameter mm	Fin Spacing mm	Defrost Type	Defrost Power
RDFXB23503 ED	60048483	5.22	29.48	320	2.6	2	350	3.5	Electric	2200
RDFXB23507 ED	60048484	2.93	16.25	320	2.6	2	350	7	Electric	2200
RDFXB33503 ED		9.2	42.06	480	3.9	3	350	3.5	Electric	3148
RDFXB33507 ED	60048486	5.4	23.19	480	3.9	3	350	7	Electric	3148
RDFXB43503 ED		12.25	54.74	640	5.2	4	350	3.5	Electric	4080
RDFXB43507 ED		7.9	30.13	640	5.2	4	350	7	Electric	4080
RDFXB53503 ED		14.85	67.32	800	6.5	5	350	3.5	Electric	4680
RDFXB53507 ED		9.97	37.07	800	6.5	5	350	7	Electric	4680

* Refrigerant R744, High Speed 1450rpm

RDFX 350 EVAPORATORS - LOW TEMPERATURE

Model	Code	Duty Evaporating (SC3 -250C/-180C)* kW	Total Surface Area m2	Total Power W	Total Current A	Number of Fans	Fan Diameter mm	Fin Spacing mm	Defrost Type	Defrost Power
RDFXB23507 ED	60048484	1.88	16.25	320	2.6	2	350	7	Electric	2200
RDFXB33507 ED	60048486	3.81	23.19	480	3.9	3	350	7	Electric	3148
RDFXB43507 ED		5.66	30.13	640	5.2	4	350	7	Electric	4080
RDFXB53507 ED		7.47	37.07	800	6.5	5	350	7	Electric	4680

* Refrigerant R744, High Speed 1450rpm

RIVACOLD CO2/R744 EVAPORATORS

TCUX 300

Cubic unit cooler



TCUX EVAPORATORS - MEDIUM TEMPERATURE

Model	Code	Duty Evaporating (SC3 -8oC/0oC)* kW	Total Surface Area m2	Total Power W	Total Current A	Number of Fans	Fan Diameter mm	Fin Spacing mm	Defrost Type	Defrost Power
TCUX 15-75 ED	60048490	2.2	4	80	0.68	1	300	5.1	Electric	1040
TCUX 15-100 ED	60048491	2.8	6	80	0.68	1	300	5.1	Electric	1040
TCUX 15-130 ED	60048492	3.6	8	80	0.68	1	300	5.1	Electric	1040
TCUX 25-160 ED	60048493	4.51	8	160	1.36	2	300	5.1	Electric	1620
TCUX 25-210 ED	60048494	6.15	14	160	1.36	2	300	5.1	Electric	1620
TCUX 25-250 ED	60048495	7.2	16	160	1.36	2	300	5.1	Electric	1620
TCUX 35-330 ED	60048496	9.9	20	240	2.04	3	300	5.1	Electric	2540
TCUX 35-360 ED	60048497	10.74	24	240	2.04	3	300	5.1	Electric	2540

* Refrigerant R744

TCUX EVAPORATORS - LOW TEMPERATURE

Model	Code	Duty Evaporating (SC3 -8oC/0oC)* kW	Total Surface Area m2	Total Power W	Total Current A	Number of Fans	Fan Diameter mm	Fin Spacing mm	Defrost Type	Defrost Power
TCUX 15-75 ED	60048490	1.71	4	80	0.68	1	300	5.1	Electric	1040
TCUX 15-100 ED	60048491	2.17	6	80	0.68	1	300	5.1	Electric	1040
TCUX 15-130 ED	60048492	2.79	8	80	0.68	1	300	5.1	Electric	1040
TCUX 25-160 ED	60048493	3.5	8	160	1.36	2	300	5.1	Electric	1620
TCUX 25-210 ED	60048494	4.77	14	160	1.36	2	300	5.1	Electric	1620
TCUX 25-250 ED	60048495	5.58	16	160	1.36	2	300	5.1	Electric	1620
TCUX 35-330 ED	60048496	7.67	20	240	2.04	3	300	5.1	Electric	2540
TCUX 35-360 ED	60048497	8.33	24	240	2.04	3	300	5.1	Electric	2540

* Refrigerant R744

REFRIGERATION COMPONENTS AND CONTROLS



BRASS FITTINGS



FLARE NUT - SHORT

Description	Size	Code
NS4-4	1/4"	70020002
NS4-6	3/8"	70020003
NS4-8	1/2"	70020004
NS4-10	5/8"	70020005
NS4-12	3/4"	70020006
NS4-14	7/8"	70020007

FLARE NUT - SHORT REDUCING

Description	Size	Code
NRS4-64	3/8" x 1/4"	70020010
NRS4-86	1/2" x 3/8"	70020012
NRS4-108	5/8" x 1/2"	70020013
NRS4-1210	3/4" x 5/8"	70020014
NRS4-1412	7/8" x 3/4"	70020015



REDUCING TEES

Description	Size	Code
TR2-46	1/4" x 3/8"	70020093
TR2-48	1/4" x 1/2"	70020094
TR2-68	3/8" x 1/2"	70020095
TR2-810	1/2" x 5/8"	70020096
TR2-64	3/8" x 1/4"	70020097
TR2-84	1/2" x 1/4"	70020098
TR2-86	1/2" x 3/8"	70020099
TR2-104	5/8" x 1/4"	70020100
TR2-106	5/8" x 3/8"	70020101
TR2-108	5/8" x 1/2"	70020102
TI-4A	1/4" x 1/8" MPT	70020103
TI-4B	1/4" x 1/4" MPT	70020104
TI-4C	1/4" x 3/8" MPT	70020105
T6-4	1/4" MFL x 1/4" FFL	70020107



EQUAL CONNECTORS

Description	Size	Code
U2-4	1/4"	70020021
U2-6	3/8"	70020022
U2-8	1/2"	70020023
U2-10	5/8"	70020024
U2-12	3/4"	70020025
U2-14	7/8"	70020026



FEMALE FLARE CONNECTORS

Description	Size	Code
U4-4	1/4"	70020082
U4-6	3/8"	70020083
U4-8	1/2"	70020084
U4-10	5/8"	70020085
U4-12	3/4"	70020086

FLARE NUT - LONG

Description	Size	Code
N4-4	1/4"	70020016
N4-6	3/8"	70020017
N4-8	1/2"	70020018
N4-10	5/8"	70020019
N4-12	3/4"	70020020

CAP NUT

Description	Size	Code
N5-4	1/4"	70020124
N5-6	3/8"	70020125
N5-8	1/2"	70020126
N5-10	5/8"	70020127
N5-12	3/4"	70020128

EQUAL FLARE TEES

Description	Size	Code
T2-4	1/4"	70020087
T2-6	3/8"	70020088
T2-8	1/2"	70020089
T2-10	5/8"	70020090
T2-12	3/4"	70020091
T2-14	7/8"	70020092

REDUCING CONNECTORS

Description	Size	Code
UR2-64	3/8" x 1/4"	70020028
UR2-84	1/2" x 1/4"	70020030
UR2-86	1/2" x 3/8"	70020031
UR2-104	5/8" x 1/4"	70020032
UR2-106	5/8" x 3/8"	70020033
UR2-108	5/8" x 1/2"	70020034
UR2-126	3/4" x 3/8"	70020035
UR2-128	3/4" x 1/2"	70020036
UR2-1210	3/4" x 5/8"	70020037
UR2-1412	7/8" x 3/4"	70020038

BRASS FITTINGS



REDUCERS FEMALE X MALE FLARE

Description	Size	Code
UR3-64	3/8" F FL x 1/4" M FL	70020053
UR3-84	1/2" F FL x 1/4" M FL	70020054
UR3-46	1/4" F FL x 3/8" M FL	70020055
UR3-106	5/8" F FL x 3/8" M FL	70020056
UR3-86	1/2" F FL x 3/8" M FL	70020057
UR3-48	1/4" F FL x 1/2" M FL	70020058
UR3-68	3/8" F FL x 1/2" M FL	70020059
UR3-108	5/8" F FL x 1/2" M FL	70020060
UR3-128	3/4" F FL x 1/2" M FL	70020061
UR3-610	3/8" F FL x 5/8" M FL	70020062
UR3-810	1/2" F FL x 5/8" M FL	70020063

COUPLING MALE FLARE X FPT

Description	Size	Code
U3-4A	1/4" M FL x 1/8" FPT	70020074
U3-4B	1/4" M FL x 1/4" FPT	70020075
U3-6B	3/8" M FL x 1/4" FPT	70020078



COUPLING FEMALE FLARE X MPT

Description	Size	Code
UM-4A	1/4" F FL x 1/8" MPT	70020068
UM-4B	1/4" F FL x 1/4" MPT	70020069
UM-6B	3/8" F FL x 1/4" MPT	70020070

HALF UNION

Description	Size	Code
U1-4A	1/4" M FL x 1/8" MPT	70020039
U1-4B	1/4" M FL x 1/4" MPT	70020040
U1-6B	3/8" M FL x 1/4" MPT	70020044
U1-6C	3/8" M FL x 3/8" MPT	70020045

FLARE CROSS

Description	Size	Code
C1-4	1/4"	70020108



FUSIBLE PLUGS

Description	Size	Code
FP-A	1/8" MPT	70030019
FP-B	1/4" MPT	70030020
FP-C	3/8" MPT	70030021



CYLINDER ADAPTORS

Description	Size	Code
K1-4E	3/4" X 1/4" FL	70020149
K1-4E	Adapter Gasket	70020150

EQUAL FLARE ELBOWS

Description	Size	Code
E2-4	1/4"	70020109
E2-6	3/8"	70020110
E2-8	1/2"	70020111
E2-10	5/8"	70020112
E2-12	3/4"	70020113
E2-14	7/8"	70020114

MISC ELBOWS

Description	Size	Code
ER2-64	FL ELBOW REDUCING	70020115
E1-4A	1/4" M FL x 1/8" MPT	70020116
E1-4B	1/4" M FL x 1/4" MPT	70020117
E1-6B	3/8" M FL x 1/4" MPT	70020120



FLARE GASKETS

Description	Size	Code
B2-4	1/4"	70020143
B2-6	3/8"	70020144
B2-8	1/2"	70020145
B2-10	5/8"	70020146
B2-12	3/4"	70020147
B2-14	7/8"	70020148



FLARE BONNETS

Description	Size	Code
B1-4	1/4"	70020137
B1-6	3/8"	70020138
B1-8	1/2"	70020139
B1-10	5/8"	70020140
B1-12	3/4"	70020141
B1-14	7/8"	70020142

ACCESS FITTINGS & VALVES

AV3-346



AVU-24



ACCESS FITTINGS

Description	Size	Code
AV-34	3/16" & 1/4" straight solder	70030003
AV3-346	3 Way Solder for 3/16", 1/4" and 3/8"	70030004
AV-46	1/4" & 3/8" straight solder	70030005
AVS-4	1/4" M FL with swivel nut	70030007
AVU-24	Half union, 1/8" MPT	70030009
AVX-3	2" x 3/16" tube extension	70030012
AVX-4	2" x 1/4" tube extension	70030013
AVX-5	2" x 5/16" tube extension	70030014
AVX-6	2" x 3/8" tube extension	70030015
AVS-44	1/4" Male Flare Tee, swivel nut on run	70030016
VT-44	1/4" access on run x 1/4" female flare no depressor on female swivel branch end	70030017
QC-4	Cap for 1/4" male flare	70030030
WC-1	Spare Cores	70030031
VCR-1	Core remover c/w 4 cores	70030037

AP-1



LT-4G



LINE TAP VALVES

Description	Size	Code
AP-1	Line Tap Valve	70030001
AP-2	3/8" - 5/8" Line Tap Valve	70030002
CV-1G	Control Valve	70030022
CV-2G	2-Way Control Valve	70030023
LT-3G	3/16" Line Tap Valve	70030024
LT-4G	1/4" Line Tap Valve	70030025
LT-5G	5/16" Line Tap Valve	70030026
LT-6G	3/8" Line Tap Valve	70030027
LT-8G	1/2" Line Tap Valve	70030028
LT-10G	5/8" Line Tap Valve	70030029



3 WAY DUAL SHUT-OFF VALVE

Description	Code
925 3-Way Dual Shut-Off Valve	70041019

LINE VALVES

Description	Size	Code
CVF2-4	1/4" FL Line Valve	70040205
CVF2-6	3/8" FL Line Valve	70040206
CVF2-8	1/2" FL Line Valve	70040207
CVF2-10	5/8" FL Line Valve	70040208
CVF2-12	3/4" FL Line Valve	70040209
CVS2-4	1/4" SW Line Valve	70040210
CVS2-6	3/8" SW Line Valve	70040211
CVS2-8	1/2" SW Line Valve	70040212
CVS2-10	5/8" SW Line Valve	70040213
CVS2-12	3/4" SW Line Valve	70040214
ILV-2	7/8" Line Valve Capped	70040215
ILV-21	1/8" SW Line Valve	70040216
ILV-21	3/8" SW Line Valve Capped	70040217
ILV-21	1.5/8" SW Line Valve	70040218
ILV-2.2	2.1/8" SW Line Valve Capped	70040219



PRESSURE RELIEF VALVES

Description	Code
5231as-300psi	70041000
5231/A-300psi	70041001
5231-Bs/300psi	70041004
5231/B-350psi	70041005
5232-300psi	70041006
5232-350psi	70041007
5232-Ce 400psi	70041008
5231/A 400psi	70041039



HAND VALVES

Description	Size	Code
HVS2-4	1/4" SW Line Valve	70040200
HVS2-6	3/8" SW Line Valve	70040201
HVS2-8	1/2" SW Line Valve	70040202
HVS2-10	5/8" SW Line Valve	70040203
HVS2-12	3/4" SW Line Valve	70040204
HVF2-4	1/4" FL Line Valve	70040220
HVF2-6	3/8" FL Line Valve	70040221
HVF2-8	1/2" FL Line Valve	70040222
HVF2-10	5/8" FL Line Valve	70040223
HVF2-12	3/4" FL Line Valve	70040224

VIBRATION ELIMINATORS & OIL CONTROL



VIBRATION ELIMINATORS

Description	Code
1/4"	70040100
3/8"	70040101
1/2"	70040102
5/8"	70040103
3/4"	70040104
7/8"	70040105
1 1/8"	70040106
1 3/8"	70040107
1 5/8"	70040108
2 1/8"	70040109
2 5/8"	70040110
3 1/8"	70040111

SUCTION LINE HEAT EXCHANGERS

Description	Code
SLHE 1/2	70040500
SLHE 3/4	70040501
SLHE 1	70040502
SLHE 1 1/2	70040503
SLHE 2	70040504
SLHE 3	70040505
SLHE 5	70040506
SLHE 7 1/2	70040507
SLHE 10	70040508
SLHE 15	70040509
SLHE 20	70040510



OIL SEPARATORS

Description	Size	Code
XW-55824	1/2"	70050002
XW-55855	5/8"	70050003
XW-55877	7/8"	70050004
W-55889	1 1/8"	70050005
W-559011	1 3/8"	70050006
W-559213	1 5/8"	70050007
W-569417	2 1/8"	70050008



SUCTION ACCUMULATORS

Description	Size	Code
S-7046	3/4"	70050065
S-7063	1 3/8"	70050066
S-7065	1 5/8"	70050067

OIL DIFF SWITCHES

Description	Code
P30-H3601 60 Sec	70060300
P30-H3701 90 Sec	70060301
P30-5839 120 Sec	70060302

EXPANSION VALVES, SOLENOID VALVES, COILS, SWITCHES & THERMOSTATS

HOT GAS BYPASS VALVES

Description	Code
V16-H0112 3/16" Solenoid Valve	70070505
V16-H0115 1/4" Solenoid Valve	70070506
L16-H0116 Coil 230v/50Hz	70070507
L16-H0158 Coil 115v/60Hz	70070508

EVAPORATOR PRESSURE REGULATORS

Description	Code
ORIT-6 1/4" SW 0/50 EV PR Reg	70070414
ORIT-6 1/2" SW 30/100 EV PR Reg	70070415
ORIT-6 3/4" SW 0/50 EV PR Reg	70070416
ORIT-6 1" SW 30/100 EV PR R	70070417
ORIT-10 1/4" SW 0/50 EV PR Reg	70070418
ORIT-10 1/2" SW 0/50 EV P Reg	70070419
ORIT-10 3/4" SW 0/60 EV Reg	70070420
ORIT-10 1" SW 30/100 EV Reg	70070421

REVERSING VALVES

Description	Code
V1 Reversing Valve 1/2 x 1/2	70070500
V2 Reversing Valve 1/2 x 1/2	70070501
V6 Reversing Valve 3/4 x 1/2	70070502
V10 Reversing Valve 1/2 x 1/2	70070503
V1031408010 Reversing Valve	70070504
LDK414801057 Coil 230v	70070509
LDK114801000 Coil 24v AC	70070510
L30734801 Coil 12V DC	70070511

CRANKCASE PRESSURE REGULATORS

Description	Code
S-12 1/2" FL Crankcase Press Regulator	70070402
S-16 1/2" FL Crankcase Press Regulator	70070403
CRO-6 1/2" SW CR Press Regulator	70070410
CRO-6 3/4" SW CR Press Regulator	70070411
CRO-10 1/2" SW CR Press Regulator	70070412
CRO-10 3/4" SW CR Press Regulator	70070413
CROT-6 1/2" SW Crankcase Press Regulator	70070404
CROT-6 3/4" SW Crankcase Press Regulator	70070405
CROT 6 1/2" Crankcase Press Regulator	70070406
CROT 10 1/2" SW Crankcase Press Regulator	70070407
CROT10 1/2" CPR 900605	70070408
CROT10 3/4" Crankcase Press Regulator	70070409

T2 EXPANSION VALVES - DANFOSS

Description	Code
TX2 R22 Internal	70070003
TEX2 R22 External	70070004
TN2 R134A Internal	70070007
TEN2 R134A External	70070008
TS2 R404A Internal	70070009
TES2 R404A External	70070010
TZ2 R407C Internal	70070011
TEZ2 R407C External	70070012

ORIFICE - DANFOSS

Description	Code
00	70070020
01	70070021
02	70070022
03	70070023
04	70070024
05	70070025
06	70070026

CONDENSER PRESSURE REGULATORS

Description	Code
ORD-4-20 1/2" SW Cond PR Reg	70070426
ORDA-5 1/2" SW 100 Cond PR Reg	70070427
ORDA-5 3/4" SW 180 Cond PR Reg	70070428
ORI-6 1/2" SW 100/225 Cond Reg	70070422
ORI-6 3/4" SW 100/225 Cond Reg	70070423
ORI-6 1" SW 100/225 Cond Reg	70070424
ORI-10 1 1/2" SW Cond PR Reg	70070425

PRESSURE, TEMPERATURE, DEFROST & FAN SPEED CONTROLS

OIL DIFF SWITCHES

Description	Code
P30-H3601 Oil-Diff SW: 60sec	70060300
P30-H3701 Oil-Diff SW: 90sec	70060301
P30-5839 Oil-Diff SW: 120sec	70060302

C17 THERMOSTATS

Description	Code
C17-0100 Thermostat	70060303
C17-0222 Thermostat	70060304

VARIFIX THERMOSTATS

Description	Code
VC-1	70060001
VA-2	70060002
VF-3	70060003
VP-4	70060004
VS-5	70060005
VR-6	70060006
VB-7	70060007
VW-8	70060008
VT-9	70060009
VT-93 (VT9-3M CAP)	70060010
VTD 9	70060011
VX0 Warmer / VT-9 Thermostat	70060012

DANFOSS SERVICE THERMOSTATS

Description	Code
Service Kit No 1	70060400
Service Kit No 2	70060401
Service Kit No 3	70060402
Service Kit No 4	70060403
Service Kit No 5	70060404
Service Kit No 6	70060405
Service Kit No 7	70060406
Service Kit No 8	70060407
077B-7029 Change Over Stat No.29	70060408
KIT N0.3 Long Capillary	70060409

SANHUA

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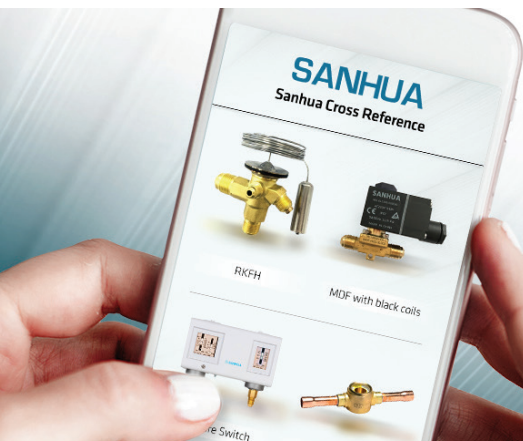


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SANHUA REFRIGERATION COMPONENTS



SIGHT GLASS - SYJ SERIES - SOLDER CONNECTIONS

Description	Size	Code
SYJ-42021	SYJ6 ODF 1/4"	70010150
SYJ-42022	SYJ10 ODF 3/8"	70010151
SYJ-42024	SYJ12 ODF 1/2"	70010152
SYJ-42026	SYJ16 ODF 5/8"	70010153
SYJ-42027	SYJ19 ODF 3/4"	70010154
SYJ-42028	SYJ22 ODF 7/8"	70010155

SIGHT GLASS - SYJ SERIES - MALE X MALE FLARE CONNECTIONS

Description	Size	Code
SYJ-42029	SYJ6 1/4" SAE	70010156
SYJ-42030	SYJ10 3/8" SAE	70010157
SYJ-42031	SYJ12 1/2" SAE	70010158
SYJ-42032	SYJ16 5/8" SAE	70010159

SIGHT GLASS - SYJ SERIES - FEMALE X MALE FLARE CONNECTIONS

Description	Size	Code
SYJ-42034	SYJ6 1/4" SAE	70010160
SYJ-42035	SYJ10 3/8" SAE	70010161
SYJ-42036	SYJ12 1/2" SAE	70010162
SYJ-42037	SYJ16 5/8" SAE	70010163



FILTER DRIERS WITH REPLACEABLE CORES - HTG SERIES

Description	Size	Code
HTG-29103	SH48-A00 100% Molecular Sieve	70010550
HTG-29001	HTG0485S ODF 5/8" & 16MM Solder	70010551
HTG-29002	HTG0487S ODF 7/8" & 22MM Solder	70010552
HTG-29003	HTG0489S ODF 1-1/8" Solder	70010553
HTG-29005	HTG04811S ODF 1-3/8" & 35MM Solder	70010554
HTG-29006	HTG04813S ODF 1-5/8" Solder	70010555
HTG-29008	HTG04817S ODF 2-1/8" & 54MM Solder	70010556
HTG-29009	HTG04821S ODF 2-5/8" Solder	70010557



PRESSURE SWITCHES - PS01/50/15 SERIES

Description	Size	Code
PS01AL-S01	PS01AL-S01 Auto	70060361
PS50AL-S51	PS50AL-S51 Auto	70060362
PS15AAL-S51	PS15AAL-S51 Auto	70060363



SANHUA

UNIFLOW FILTER DRIERS - DTGB SERIES

Description	Size	Code
DTG-30020	DTGB032S ODF 1/4" Solder	70010558
DTG-30001	DTGB032 1/4" SAE Flare	70010559
DTG-30024	DTGB052S ODF 1/4" Solder	70010560
DTG-30003	DTGB052 1/4" SAE Flare	70010561
DTG-30026	DTGB053S ODF 3/8" Solder	70010562
DTG-30004	DTGB053 3/8" SAE Flare	70010563
DTG-30029	DTGB082S ODF 1/4" Solder	70010564
DTG-30005	DTGB082 1/4" SAE Flare	70010565
DTG-30031	DTGB083S ODF 3/8" Solder	70010566
DTG-30006	DTGB083 3/8" SAE Flare	70010567
DTG-30032	DTGB084S ODF 1/2" Solder	70010568
DTG-30007	DTGB084 1/2" SAE Flare	70010569
DTG-30034	DTGB162S ODF 1/4" Solder	70010570
DTG-30008	DTGB162 1/4" SAE Flare	70010571
DTG-30036	DTGB163S ODF 3/8" Solder	70010572
DTG-30009	DTGB163 3/8" SAE Flare	70010573
DTG-30037	DTGB164S ODF 1/2" Solder	70010574
DTG-30010	DTGB164 1/2" SAE Flare	70010575
DTG-30038	DTGB165S ODF 5/8" Solder	70010576
DTG-30011	DTGB165 5/8" SAE Flare	70010577
DTG-30042	DTGB304S ODF 1/2" Solder	70010578
DTG-30014	DTGB304 1/2" SAE Flare	70010579
DTG-30043	DTGB305S ODF 5/8" Solder	70010580
DTG-30015	DTGB305 5/8" SAE Flare	70010581

BI-FLOW FILTER DRIERS - STGB SERIES

Description	Size	Code
STG-31017	STGB082S ODF 1/4" Solder	70010582
STG-31004	STGB082 1/4" SAE Flare	70010583
STG-31019	STGB083S ODF 3/8" Solder	70010584
STG-31005	STGB083 3/8" SAE Flare	70010585
STG-31020	STGB084S ODF 1/2" Solder	70010586
STG-31006	STGB084 1/2" SAE Flare	70010587
STG-31021	STGB163S ODF 3/8" Solder	70010588
STG-31007	STGB163 3/8" SAE Flare	70010589
STG-31022	STGB164S ODF 1/2" Solder	70010590
STG-31008	STGB164 1/2" SAE Flare	70010591
STG-31023	STGB165S ODF 5/8" Solder	70010592

SANHUA REFRIGERATION COMPONENTS



SOLENOID VALVE FLARE -MDF SERIES

Description	Size	Code
MDF-08039	MDF2 1/4" SAE	70010700
MDF-08040	MDF3 1/4" SAE	70010701
MDF-08041	MDF3 3/8" SAE	70010702
MDF-08042	MDF6 3/8" SAE	70010703
MDF-08043	MDF6 1/2" SAE	70010704
MDF-08044	MDF10 1/2" SAE	70010705
MDF-08045	MDF10 5/8" SAE	70010706
MDF-08046	MDF15 5/8" SAE	70010707

SOLENOID VALVE SOLDER -MDF SERIES

Description	Size	Code
MDF-08001	MDF2 ODF 1/4"	70010709
MDF-08002	MDF3 ODF 1/4"	70010710
MDF-08003	MDF3 ODF 3/8"	70010711
MDF-08004	MDF6 ODF 3/8"	70010712
MDF-08005	MDF6 ODF 1/2"	70010713
MDF-08006	MDF10 ODF 1/2"	70010714
MDF-08007	MDF10 ODF 5/8"	70010715

SOLENOID VALVE COIL - MDF SERIES

Description	Size	Code
MDF-60001	MQ-A03 24V Connection Box IP65	70010716
MDF-60003	MQ-A03 220-240V Connection Box IP65	70010717



BALL VALVES -SBV SERIES - WITH ACCESS FITTING

Description	Size	Code
SBV02-319	SBV6 ODF 1/4" Solder	70040900
SBV03-319	SBV10 ODF 3/8" Solder	70040901
SBV04-319	SBV12 ODF 1/2" SOLDER	70040902
SBV-13025	SBV16 ODF 5/8" & 16MM Solder	70040903
SBV-13027	SBV18 ODF 3/4" SOLDER	70040904
SBV-13028	SBV22 ODF 7/8" & 22MM Solder	70040905
SBV-13030	SBV28 ODF 1-1/8" SOLDER	70040906
SBV-13031	SBV35 ODF 1-3/8" & 35MM Solder	70040907
SBV-13040	SBV42 ODF 1-5/8" Solder	70040908
SBV-13033	SBV54 ODF 2-1/8" & 54MM Solder	70040909



SANHUA

THERMOSTATIC EXPANSION VALVES - RFKH SERIES

Description	Size	Code
RFK-24073	RFKH03-4.8-21 R404A/507C 1/2"SAE Flare	70070552
RFK-24074	RFKH03E-4.8-15 R404A/507C 1/2"SAE Flare	70070553
RFK-24083	RFKH04-2.9-30 R134A ODF 1/2" Solder	70070554
RFK-24084	RFKH04E-2.9-31 R134A ODF 1/2" Solder	70070555
RFK-24095	RFKH07-6.0-45 R407A/407F ODF 1/2" Solder	70070558
RFK-24096	RFKH07E-6.0-46 R407A/407F ODF 1/2" Solder	70070559
RFK-H08	RFKH08-6.1-51 R448A/449A 3/8" Flare Out 1/2" ODF Solder	70070560
RFKH08E	RFKH08E-6.1-52 R448A/449A 3/8" Flare Out 1/2" ODF Solder	70070561
RFKH-11	RFKH11-4.5-57 R452A 3/8" Flare Out 1/2" ODF Solder	70070562
RFKH-11E	RFKH11E-4.5-58 R452A 3/8" Flare Out 1/2" ODF Solder	70070563
RFK-24077	RFKH03-4.8-09 R404A/507C ODF 1/2" Solder	70070572
RFK-24078	RFKH03E-4.8-10 R404A/507C ODF 1/2" Solder	70070573
RFK-24079	RFKH04-2.9-23 R134A 1/2"SAE Flare	70070574
RFK-24080	RFKH04E-2.9-19 R134A 1/2"SAE Flare	70070575
RFK-24091	RFKH07-6.0-43 R407A/407F 1/2"SAE Flare	70070576
RFK-24092	RFKH07E-6.0-42 R407A/407F 1/2"SAE Flare	70070577
RFKH08-6.1	RFKH08-6.1-49 R448A/449A 3/8" Flare Out 1/2" SAE Flare	70070578
RFKH08E-6	RFKH08E-6.1-48 R448A/449A 3/8" Flare Out 1/2" SAE Flare	70070579

THERMOSTATIC EXPANSION VALVES - RFKH SERIES FLARE NUTS

Description	Size	Code
RFK-038010	RFK-A04-038010 RFK-A04-038010 SAE Flare: 3/8"OUT 3/8"	70070550
RFK-038012	RFK-A04-038012 RFK-A04-038012 SAE Flare: 3/8"OUT 1/4"	70070551



THERMOSTATIC EXPANSION VALVE - RFKH SERIES - ORIFICE MODEL

Description	Size	Code
RFK-24097	RFKH-023-0X Size 0X	70070564
RFK-24098	RFKH-023-00 Size 00	70070565
RFK-24099	RFKH-023-01 Size 01	70070566
RFK-24100	RFKH-023-02 Size 02	70070567
RFK-24101	RFKH-023-03 Size 03	70070568
RFK-24102	RFKH-023-04 Size 04	70070569
RFK-24103	RFKH-023-05 Size 05	70070570
RFK-24104	RFKH-023-06 Size 06	70070571

DEFROST CONTROLS / FAN SPEED CONTROLS

DEFROST TIMERS

Description	Code
Universal-R Digital Controller	70060800
FLSH 110 11722 Flash Timeclock	70060801
14001 Flash Minimat Timer	70060802
FLSH100 11721 Flash Timeclock	70060803
16022 Flash 24 Hr Timer	70060804
16021 Flash 24 Hr Timer	70060805
16721 Flash 7 Day Timer	70060806
MIL72A/1 24 Hr Time Clock	70060807
MIL72A/ESWU2H 24 Hr Time Clock	70060808



HEATER TAPES

Description	Code
CSC2-40 1.0M 40W/M	70061500
CSC2-40 2.0M 40W/M	70061501
CSC2-40 3.0M 40W/M	70061502
CSC2-40 4.0M 40W/M	70061503
CSC2-40 5.0M 40W/M	70061504
CSC2-40 6.0M 40W/M	70061505
IRT-216 Self limiting	70061506
IRT-1/16 25M reel	70061507

CRANKCASE HEATERS

Description	Code
FCH 40 180 - 280 mm 55W	70061520
FCH 30 150 - 280 mm 45W	70061521

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FAN MOTORS & BLADES



MULTI-FIT MOTORS

Description	Code
5 Watt CCW	70080001
7 Watt CCW	70080002
10 Watt CCW	70080003
16 Watt CCW	70080004
18 Watt CCW	70080005
25 Watt CCW	70080006
34 Watt CCW	70080007



RING MOUNTED MOTORS

Watt	Dia	Type	Code
5 Watt	154mm	Draw Through	70080020
5 Watt	172mm	Draw Through	70080021
10 Watt	200mm	Draw Through	70080022
10 Watt	230mm	Draw Through	70080023
18 Watt	254mm	Draw Through	70080024
25 Watt	300mm	Draw Through	70080025
5 Watt	154mm	Blow	70080030
5 Watt	172mm	Blow	70080031
10 Watt	200mm	Blow	70080032
10 Watt	230mm	Blow	70080033
18 Watt	254mm	Blow	70080034
25 Watt	300mm	Blow	70080035

TANGENTIAL FAN MOTORS

Watts	Blade Length	Speed	Air Flow	Code
15W	90mm	2300rpm	65m ³ /h	70080300
15W	120mm	2200rpm	80m ³ /h	70080301
20w	180mm	2000rpm	120m ³ /h	70080302
30W	240mm	2100rpm	170m ³ /h	70080303
30W	300mm	1900rpm	190m ³ /h	70080304



FAN BLADES

Model	Diameter	Code
5.5-4-32	140mm CCW	70090001
5.5-4-32	140mm CW	70090002
6.5-5-31	165mm CCW	70090003
6.5-5-31	165mm CW	70090004
6-5-31	150mm CCW	70090005
6-5-31	150mm CW	70090006
7.5-5-31	190mm CCW	70090007
7.5-5-31	190mm CW	70090008
7-5-31	180mm CCW	70090009
7-5-31	180mm CW	70090010
8-5-31	200mm CCW	70090011
8-5-31	200mm CW	70090012
9-5-31	230mm CCW	70090013
9-5-31	230mm CW	70090014
10-4-24	255mm CCW	70090015
10-4-24	255mm CW	70090016
10-5-31	255mm CCW	70090017
10-5-31	255mm CW	70090018
12-4-31	305mm CCW	70090019
12-4-31	305mm CW	70090020
13-3-31	330mm CCW	70090021
14-4-31	355mm CCW	70090022
14-4-31	355mm CW	70090023
15-4-31	380mm CCW	70090024
15-4-31	380mm CW	70090025
16-4-31	405mm CCW	70090026
16-4-31	405mm CW	70090027
18-4-31	455mm CCW	70090028
18-4-31	455mm CW	70090029
20-4-33	508mm CCW	70090030
20-4-33	508mm CW	70090031
22-4-31	560mm CCW	70090032
10-5-31	255mm CCW	70090033



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PIPE WORKING TOOLS



PIPE CUTTERS

Description	Brand	Code
Jav-1009 1/8" - 5/8" Mini Cutter with Titanium Blade	JAVAC EDGE	80010565
JAV-1010 Reversed Tube Cutter 1/8" to 7/8"	JAVAC EDGE	80010566
JAV-1011 Ratchet Handle Tube Cutter	JAVAC EDGE	80010567
Jav-1012 1/8" - 1 1/4" Cutter with Titanium Blade	JAVAC EDGE	80010568
Jav-1013 1/8" - 1 5/8" Large Cutter with Titanium Blade	JAVAC EDGE	80010569
Jav-1014 1/8" - 1 1/4" Heavy Duty Large Cutter With Ball Bearing Rollerse	JAVAC EDGE	80010570
Rotrac-28 1/8" - 1 1/8" (Chrome)	ROTHENBERGER	80030110
Rotrac-35 1/4" - 1 3/8" (Black)	ROTHENBERGER	80030067
Minimax Tube Cutter 1/8" - 1 1/8"	ROTHENBERGER	80030080



TUBE STRAIGHTENING TOOLS

Description	Brand	Code
JAV-TST14 Javac Tube Straightening Tool 1/4"	JAVAC	80010477
JAV-TST38 Javac Tube Straightening Tool 3/8"	JAVAC	80010478
JAV-TST12 Javac Tube Straightening Tool 1/2"	JAVAC	80010479
JAV-TST58 Javac Tube Straightening Tool 5/8"	JAVAC	80010480



PIPE BENDERS

Description	Brand	Code
Tube Bender 3/8" JTB-364-06	JAVAC	80010420
Tube Bender 1/2" JTB-364-08	JAVAC	80010421
Tube Bender 5/8" JTB-364-10	JAVAC	80010422
Tube Bender 3/4" JTB-364-12	JAVAC	80010423
Multi Size Tube Bender Set	JAVAC EDGE	80010582
HB85 Hydraulic Bender	JAVAC	80010183
JAV-404-L Javac Crossbow Bender	JAVAC	80010403
Multi Bender	ROTHENBERGER	80030032
270-F 18 1 1/8" Gear Bender	IMPERIAL	80020031



TUBE EXPANDERS

Description	Brand	Code
HY-EX-6 Hydraulic Expander c/w 6 Heads 4687047	REFCO	80010462
HY-EX Hydraulic Expander only 4687048	JAVAC EDGE	80010463
JAV-1000B Tube Expander Set	JAVAC	80010212
Tube Expander Set Multisize 1/4" - 1 1/8" with Heads JAV-1025	JAVAC EDGE	80010586



UNIVERSAL EXPANDER HEADS

Description	Brand	Code
3/8" Expander Head JAV-1083	JAVAC EDGE	80010588
1/2" Expander Head JAV-1080	JAVAC EDGE	80010589
5/8" Expander Head JAV-1084	JAVAC EDGE	80010590
3/4" Expander Head JAV-1082	JAVAC EDGE	80010591
7/8" Expander Head JAV-1085	JAVAC EDGE	80010592
1 1/8" Expander Head JAV-1086	JAVAC EDGE	80010594
1 3/8" Expander Head JAV-1054	JAVAC EDGE	80010595
1 5/8" Expander Head JAV-1055	JAVAC EDGE	80010596



BENDING SPRINGS

Description	Brand	Code
1/4" Bending Spring	JAVAC	80010426
3/8" Bending Spring	JAVAC	80010427
1/2" Bending Spring	JAVAC	80010428
5/8" Bending Spring	JAVAC	80010429
3/4" Bending Spring	JAVAC	80010430



REAMER

Description	Brand	Code
208-F Inner/Outer Reamer	ITE	80020025

PIPE EXPANDER

Description	Brand	Code
		80080070

FLARING/SWAGING & SERVICE TOOLS

JAV-806B



FLARING AND SWAGING KITS

Description	Brand	Code
JAV-275-K Flaring Kit	JAVAC	80010299
JAV-806B Eccentric Flaring Kit 1/4" - 3/4"	JAVAC	80010199
Eccentric Cone Flaring Tool JAV-1024	JAVAC EDGE	80010583
2 IN 1 Flaring & Swaging Tool JAV-1023	JAVAC EDGE	80010584

SPIN 56000



SPIN TOOLS SWAGING

Description	Brand	Code
SPIN 56000 (6 Piece) 1/4" 3/8" 1/2" 5/8" 3/4" 7/8"	SPIN	80020273
SPIN 54000 (4 Piece) 1/4" 3/8" 1/2" 5/8"	SPIN	80020274

SPIN F4000



SPIN TOOLS FLARING

Description	Brand	Code
SPIN F4000 Flaring Kit (4 Piece) 1/4" 3/8" 1/2" 5/8"	SPIN	80020270
SPIN F5000 Flaring Kit (5 Piece) 1/4" 3/8" 1/2" 5/8" 3/4"	SPIN	80020271

Ball Valve



JAV-127



Core Remover



SERVICE TOOLS

Description	Brand	Code
RYB Set of 3 Ball Valves 1/4 SAE EL33021	JAVAC	80014031
Ball Valve 5/16 x 20 UNF EL33023	JAVAC	80010291
R410A Adaptor EL30036	JAVAC	80010432
JAV-127-C JAVAC ratchet wrench	JAVAC	80010445
JAV-127-CO Offset wrench	JAVAC	80010446
Core Removal Tool R410a EL41550	JAVAC	80010234
Fin Comb EL70925	JAVAC	80010123
M-2 55mm Telescopic Inspection Mirror	JAVAC	80010447
Stylo Deburrer 9883750	JAVAC	80010023
Can Valve 9881202	JAVAC	80010012
LP Automotive Coupler EL30302	JAVAC	80010022
HP Automotive Coupler EL30312	JAVAC	80010146
Javac Automotive Couplers LP1234YF	JAVAC	80010483
Javac Automotive Couplers HP1234YF	JAVAC	80010484

RT-905



EM310C



TEST EQUIPMENT & THERMOMETERS

Description	Brand	Code
RT-905 Alarm Thermometer	JAVAC	80010438
EM10 Temperature and Humidity Meter	JAVAC	80010434
EM20 Temperature & Vane Anemometer	JAVAC	80010433
EM30 Tachometer	JAVAC	80010437
EM310C Clamp Meter	JAVAC	80010435
EM60 Dual Differential Thermometer	JAVAC	80010436

VETO TOOL BAGS

Description	Reference	Code
TECH PAC BLACK	AX3561	80010679
TECH PAC WHEELER	AX3560	80010676
PRO PAC TECH-PAC	AX3501	80010612
TP-XXL TOOL POUCH	AX3579	80010678
PRO PAC TECH-MCT	AX3513	80010614
PRO PAC TECH PAC LT	AX3502	80010621
PRO PAC TECH PAC MC	AX3518	80010625
PRO PAC HIGH-VIZ	AX3515	80010624
PRO PAC OT-LC	AX3509	80010618
PRO PAC TECH MC	AX3516	80010619
PRO PAC TP-XL TOOL POUCH	AX3522	80010628
PRO-PAC-TECH-PAC-HI-VIZ ORANGE	AX35591	80010629
PRO PAC TECH-MCT	AX3513	80010614
PRO PAC TECH-XL	AX3503	80010613
PRO PAC TECH MB2	AX3508	80010617

AX3560



AX3516



AX3515



AX3513



AX3508



AX3503



AX3502



AX3501



REFRIGERANT HANDLING EQUIPMENT

RECOVERY UNITS

Description	Brand	Code
VELO-X A3/A2L 230v/115v	JAVAC	80010719
XTR-Ultra-A2L 240v	JAVAC	80010295
Minimax 240V 50/60 HZ	BOSCH	80070003
Minimax 110V 50/60 HZ	BOSCH/PROMAX	80070004
RG4 110v	BOSCH	80070041
RG4 240v	BOSCH	80070040



XTR-PRO-DV

XTR-PRO-Ultra



CC-141



TurboFlow Vacuum and Charging Kit



DUAL VOLTAGE VACUUM PUMPS

Description	Brand	Code
COLT-18v (2CFM)	JAVAC	80010718
CC-141 (5CFM)	JAVAC	80010293
CC-231 (9CFM)	JAVAC	80010294
CC-31 (1.4CFM)	JAVAC	80010220
Bulldog A2L (5.5CFM)	JAVAC	80010557
JE TurboFlow Vacuum and Charging Kit	JAVAC	80010721

OILS & GAUGES

Description	Brand	Code
Vacuum Pump Oil 1litre	NATIONAL	40030046
CR2-40 Torr Gauge	JAVAC	80010165
VG-64 Vacuum Gauge	JAVAC	80010030

CR2-40



VG-64



Tek Mate



D TEK Select



LEAK DETECTORS

Description	Brand	Code
Tek Mate 705-202-G21	JAVAC	80010098
D-Tek Stratus 724-202-G11	JAVAC	80010562
D-Tek 3 JAV-1283	JAVAC EDGE	80010296
CO2 Sensor for Stratus and D-Tek 724-701-G2	JAVAC	80010687
Gas Mate 718-202-G21	JAVAC	80010440

LEAK DETECTOR ACCESSORIES

Description	Brand	Code
Tek Mate Sensor 703-020-G1	JAVAC	80010309
Tek Mate Filter Kit 705-600-G1	JAVAC	80010185
D Tek Filter Kit pk 5 712-707-G1	JAVAC	80010273
Gas Mate Sensor 706-700-G1	JAVAC	80010441
Stratus and D Tek Sensor 724-701-G1	JAVAC	80010221
Gotec Leak Spray	GOTEC	40020100

Gotec
Leak Spray



WEIGHING SCALES & MANIFOLDS

CHARGING SCALES

Description	Brand	Code
Wey-Tek HD Wireless Scales Base only 719-202-G1	JAVAC	80010469
Wey-Tek HD Bluetooth Hand Piece 719-715-G1	JAVAC	80010482
Wey-Tek Charging Scales 713-202-G1	JAVAC	80010222
Procharge 100 Charging Scales G58610	JAVAC	80010465
REF Meter OCTA Scales 4679462	REFCO	80010271
Accu-Charge Scales MC98210	JAVAC	80010156
YS-5000 PROPANE SCALE with two HOSES AND BALL VALVE	JAVAC	80080080

WEY-TEK HD



Javac Two Valve



JAVAC REFRIGERANT MANIFOLD

Description	Brand	Code
Javac Two Valve Manifold only Multi Gas EL74300	JAVAC	80010415
Javac Four Valve Manifold only Multi Gas EL75300	JAVAC	80010310
Javac Two Valve Manifold Set Multi Gas EL84372	JAVAC	80010301
Javac Four Valve Manifold Set Multi Gas EL75372	JAVAC	80010217
Javac Two Valve Manifold only R410a/R32 NSG EL66300	JAVAC	80010335
Javac Two Valve Manifold Set R410a/R32 NSG EL66372	JAVAC	80010207
Javac Two Valve Manifold only R410a/R32 EL74400	JAVAC	80010414
Javac Four Valve Manifold only R410a/R32 EL75700	JAVAC	80010408
Javac Two Valve Manifold Set R410a/R32 EL86372	JAVAC	80010235
Javac Four Way Manifold Set R410a/R32 EL75172	JAVAC	80010223

REFCO REFRIGERANT MANIFOLD SETS

Description	Brand	Code
BM2-3-DS-SUPER	REFCO	80010108
BM4-DS-CLIM	REFCO	80010147
BM2-DS-R32	REFCO	80010375

BM2-3



Refmate-4



DIGITAL MANIFOLD

Description	Brand	Code
Refmate-2 2 Way (4688124)	REFCO	80010558
Refmate-4 4 Way (4688129)	REFCO	80010559

MANIFOLD HOSES

Description	Brand	Code
72" Safe Seal Hose Set X 3 (1/4 X 1/4) JAV-1071	JAVAC	80010632
72" Safe Seal Hose Set X 3 (1/4 X 5/16) JAV-1072	JAVAC	80010633
120" Yellow Hose 9881267	REFCO	80010083
CCL-72 72" Hose Set 9881275	REFCO	80010077
CCL-36 36" Hose Set 9881278	REFCO	80010003
60" Hose Set for R410a 9884095	REFCO	80010325
60" Hose Set with BV R410a ccl-60-ca-1/2 4666522	REFCO	80010459
72" Hose Set with Ball Valve R410a/R32 JAV-1037	JAVAC	80010350
72" Hose Set with BV 1/4 X 1/4 SAE JAV-1038	JAVAC	80010364

Self Seal Hose Set



LP 80MM Gauge



MANIFOLD GAUGES

Description	Brand	Code
LP 80mm Gauge Multi Gas EL54511	JAVAC	80010232
HP 80mm Class 1 Gauge EL54516	JAVAC	80010454
LP 80mm Class 1 Gauge R410a/R32 EL56511	JAVAC	80010162
HP 80mm Class 1 Gauge R410a/R32 EL56516	JAVAC	80010468

REFRIGERANT HANDLING EQUIPMENT

RS-750



Pvr Manifold Set



NITROGEN PRESSURE TESTING EQUIPMENT

Description	Brand	Code
RS-750 Nitrogen Regulator 50 Bar 0762590	JAVAC	80010031
PVR Manifold Set with Hoses & Adaptor	JAVAC	80010329
RS-750-RIG Nitrogen Pressure Test Rig	JAVAC	80010225
NIT-02 Nitrogen Trolley	JAVAC	80010231
RS-150 10 Bar Regulator	JAVAC	80010388

CO2 MANIFOLDS & CHARGING EQUIPMENT

Description	Brand	Code
Two Valve Manifold for CO2 Sub Critical FR1304-E20	JAVAC	80010443
2 Valve Transcritical CO2 manifold 80mm gauges FR4312-E25	JAVAC	80010444
JAV-2000-144 CO2 Filling Rig	JAVAC	80010539

SI-RM3



SI-RM13



WIRELESS MANIFOLDS & GAUGES

Description	Brand	Code
SI-RV3 Smart Wireless Vacuum Probe	Sauermann	80030190
SI-RM3 Smart Wireless Manifold Probe	Sauermann	80030191
SI-RM13 Combined Manifold inc Probes;Clamps & Case	Sauermann	80030192

MANIFOLD GASKETS

Description	Brand	Code
Rubber Gaskets 1/4" Pack 10 EL200-10	JAVAC	80010019
Rubber Gaskets 5/16" Pack 10 EL220-10	JAVAC	80010036



KWIK COUPLER SETS

Description	Brand	Code
16C Kwik Coupler Set Straight (1/4" X 1/4" M)	IMPERIAL	80020012
17C Kwik Coupler Set Elbow 90° (1/4" X 1/4" M)	IMPERIAL	80020013

BRAZING EQUIPMENT

Portable Turbo Set



Super Fire 2



OLY2 Olympus



FD2 Fusion Dual



BRAZING TORCHES

Description	Brand	Code
FD2 Fusion Dual Brazing Torch	JAVAC	80010535
OLY2 Olympus Auto Brazing/Soldering Torch	JAVAC	80010534
Portable Turbo Set MAXI/OXY	ADVANCED	80080011
Super Fire 2	ROTHENBERGER	80030064
Swivel Pro Torch	ROTHENBERGER	80030158

Maxi Gas Refil



MAPP Gas 16oz



ROLOT Brazing Rod



BRAZING ACCESSORIES

Description	Brand	Code
Maxi Gas Refil For Turbo Set	ADVANCED	80080003
Oxygen Refil For Turbo Set	ADVANCED	80080002
MAPP Gas 16oz	VARIOUS	80030037
Soldering Matt	ROTHENBERGER	80020447
Heat Deflector Guard	ROTHENBERGER	80030039
Brazing Rods PHOS-2 (1KG)	LAWTONS	80060030
ROLOT Brazing Rod (1kg)	ROTHENBERGER	80030050
Silver Rods 1.5MM Flux Coated	LAWTONS	80060004
Silverbraze 30T Solder Rods	LAWTONS	80060006

M2 Inspection Mirror



Fin Comb Multi-Head



Valve Core Remover



Wide Jaw Wrench



ADDITIONAL TOOLS & ACCESSORIES

Description	Brand	Code
Wide Jaw Wrench 6"	ROTHENBERGER	80020448
Wide Jaw Wrench 8"	ROTHENBERGER	80020449
Wide Jaw Wrench 10"	ROTHENBERGER	80020450
Holesaw Kit 9 Piece 19-57mm	ROTHENBERGER	80030165
M2 Inspection Mirror	JAVAC	80010447
FIN Comb Multi-Head	JAVAC	80050805
Solenoid Magnet SVOM-15	JAVAC	80010208
Solenoid Magnet SVOM-18	JAVAC	80010133
Valve Core Remover	JAVAC	80010234
Expanding Foam	DIVERSITECH	40020323
Silicone Sealant 330ml (white)	DIVERSITECH	40020339

DELIVERIES

DELIVERY SERVICE

Next Day Delivery refers to: Orders placed before 4pm will be delivered next day throughout the UK between the hours of 0800 – 1600 hrs.*

PREMIUM DELIVERIES ARE AVAILABLE

Pre 10am: A surcharge of £25 will apply to all orders. Orders placed before 4pm will be delivered next day before 1000 hrs.*

Same Day Deliveries: Orders taken to be delivered on the same day will incur a charge which will be "Price on Application".*

Timed Deliveries (within working hours): Specific timed deliveries will incur a standard surcharge of £50. These are deliveries which need to arrive at a set time. This refers to timed deliveries between 0800 – 1700 hrs.*

Timed Deliveries (out of hours): Specific timed deliveries (out of hours) will incur a surcharge which will be "Price on Application". These are deliveries which need to arrive at a set time outside the hours of 0800 – 1700 hrs.*

DELIVERY RESTRICTIONS

Outlying Postcodes: BT, CF, EX, GY, HS, IV, KW, LD, NP, NR, PA20-80, PH19-44, PL, SA, TA, TQ, TR, ZE.

Some outlying postcodes will incur additional charges or restricted services for boxed items and the delivery of ugly freight. Ugly Freight: Refrigerant Gases and Product over 1.6m meters in length eg. Hard drawn copper, channel, cable baskets/trays, threaded rod, trunking, overflow pipes. A Kooltech staff member will contact to discuss options outlying postcodes. *Delivery restrictions apply.

PLEASE NOTE: Due to the size, availability and/or weight of some products, delivery charges and lead times are subject to change dependent on products ordered. A representative will contact you to confirm your order and will notify you if there are any discrepancies with availability or delivery charges.

EMERGENCY / OUT OF HOURS SERVICE

Out of hours call out charge: £150.00. For emergency deliveries: £POA

PROCEDURE

Dial the required Kooltech emergency number as listed below. Give your full name, company name and address and your telephone number. You will either be informed at the time or telephoned back to confirm:

- A. We are responding to your request
- B. The details of the requirements
- C. The time the goods will be available for collection
- D. The Kooltech branch where the goods can be collected
- E. If delivery to site is required, this should be agreed at this time
- F. Charges will apply

If there is no response to your initial call within 30 mins, please redial the Emergency Callout number:

Glasgow: 07795 650639	London (Hayes): 07778 667734
Newcastle: 07399 351034	Fareham: 0345 034 4176
Manchester: 07789 987373	Cambridge: 0345 034 4177
Birmingham: 07795 650641	

FGAS REGULATED PRODUCTS

As a company who adheres to the FGAS regulations set by the Environment Agency, you will be required to supply us with the appropriate FGAS Registration number should you wish to purchase any of the products on this site which are clearly flagged with an FGAS required sash. Failure to supply us with the relevant number will mean we cannot supply you with the product and the order will not be shipped. Kooltech will vet all orders with such products and will notify you if there are any discrepancies. For more details on FGAS and your responsibility, visit the REFCOM website.

RETURNS / CANCELLATIONS

Orders cannot be cancelled without our written consent. Returns for credit are subject to prior arrangement and a restocking charge of 15% of the invoiced value of the goods shall be applied and shall be paid by the Buyer. Special orders (non-list items) cannot be cancelled, neither can such goods be returned under any circumstances.

GOODS RETURNED WHERE ORDERED INCORRECTLY

Where goods have been incorrectly ordered by the customer it is not Kooltech's policy to take product back. Only after discussion with relevant Senior Manager and after determining that the product could be sold on will Kooltech take back the item. However a 25% re-stocking charge WILL apply.

SPECIAL ORDERS

Where non standard / non coded product is ordered by a client which is not the required, Kooltech will NOT accept its return or raise a credit against it.



TRADING TERMS & CONDITIONS OF SALE

PAYMENT TERMS

Strictly nett monthly account for approved credit accounts. New accounts must be applied for on our application form stating two trade and one bank reference. At least ten days must be allowed for credit status clearance. Where no approved credit account already exists payment must be CASH WITH ORDER or CASH ON DELIVERY. No new account will be opened for an initial order of less than £50. Goods despatched per C.O.D post will carry additional charge of £2.00. The right is reserved to charge interest at 4% above bank base rate on accounts overdue and to claim all charges, legal and otherwise, involved in collecting payment. The Vendor reserves the right to uplift goods from the Buyer's possession should these payment terms not be complied with. The Buyer shall permit access to the Vendor for this purpose. All costs and losses incurred by the Vendor in so doing shall be charged to the Buyer together with the restocking charge referred to below. **FOR CREDIT CUSTOMERS, OUR TERMS ARE 30 DAYS FROM THE DATE OF INVOICE, OR AS OTHERWISE AGREED: WE ARE PREPARED TO ALLOW ACCOUNTS TO BE SETTLED ON A NETT MONTHLY BASIS.** Minimum Invoice value excluding VAT is £20.00. Minimum Invoice value will be applied to all small orders and charged at the minimum billing charge ruling on the date of despatch if applicable.

PRICES

List Prices are subject to change without notice and goods will be invoiced at the list price ruling on the date of despatch.

CARRIAGE

We reserve the right to charge carriage on all despatches plus an additional amount where a special service is requested.

CANCELLATIONS

Orders cannot be cancelled without our written consent. Returns for credit are subject to prior arrangement and a restocking charge of 15% of the invoiced value of the goods shall be applied and shall be paid by the Buyer. Special orders (non-list items) cannot be cancelled, neither can such goods be returned under any circumstances.

NOTICE OF CLAIMS

- a) Goods must be checked by the buyer on receipt and any deficiencies or errors be notified in writing to the vendor within 14 days of receipt date.
- b) Damage in transit must be notified to the vendor and carrier within 3 days of receipt date.
- c) Losses in transit must be notified to the vendor and carrier within 14 days of the date of invoice.
- d) Goods must be signed for on receipt and "Unexamined" signatures do not remove the buyers obligation to check goods on receipt and notify the vendor of any irregularities. The vendor shall not be liable in respect of any claim if the provisions of this clause are not complied with.

FORCE MAJEURE

The vendor shall not be liable whatsoever for non delivery or delay in delivery directly or indirectly resulting from or caused by an Act of God, outbreak of war, hostilities, insurrection, riot, civil disturbance, fire, flood, explosion, accident, theft, climatic conditions, Government Act or regulation, shortage of materials, strike, lock out or trade dispute (either the vendors employees or other parties) or caused by any other circumstance outwith the vendors control.

RISK AND TITLE IN GOODS SUPPLIED

Risk in the goods passes to the Buyer on delivery. Notwithstanding delivery, all goods remain the Vendor's property until all sums due by the Buyer to the Vendor on any legal ground whatsoever are paid to the Vendor in full.

WARRANTIES & EXCLUSIONS OF LIABILITY

- a) Goods manufactured by the vendor are subject to a twelve month warranty in respect of defective materials or workmanship. The vendor reserves the right to either repair or replace defective goods free of charge.
- b) All other goods sold by the vendor shall be covered by a warranty or guarantee equivalent to the warranty or guarantee offered to the vendor by the supplier of such goods in respect thereof.
- c) Goods which are the subject of warranty or guarantee claim must be returned to the vendors premises at the expense of the buyer.
- d) Subject to the Sale of Goods Act 1979 and the Unfair Contract Terms Act 1977 and excepting the provisions herein stated the vendor shall in no way be liable howsoever arising, whether in contract or tort or otherwise in respect of any defects in goods sold or defective work or for any loss damage or injury resulting therefrom including consequential loss.
- e) Warranty is automatically suspended/cancelled if relative invoice is not paid in full.

LIEN

The vendor shall have a general lien on all goods for all outstanding sums due at any time. The vendor shall be entitled to dispose of or sell the goods at the buyers expense, all nett proceeds therefrom being set against payment of such sums subject to written notice of 14 days being given.

JURISDICTION & PROPER LAW

Any disputes arising from the above must be considered as being subject to the jurisdiction of the Sheriff Court at Paisley and subject to Scots Law. Common law rights are not affected.

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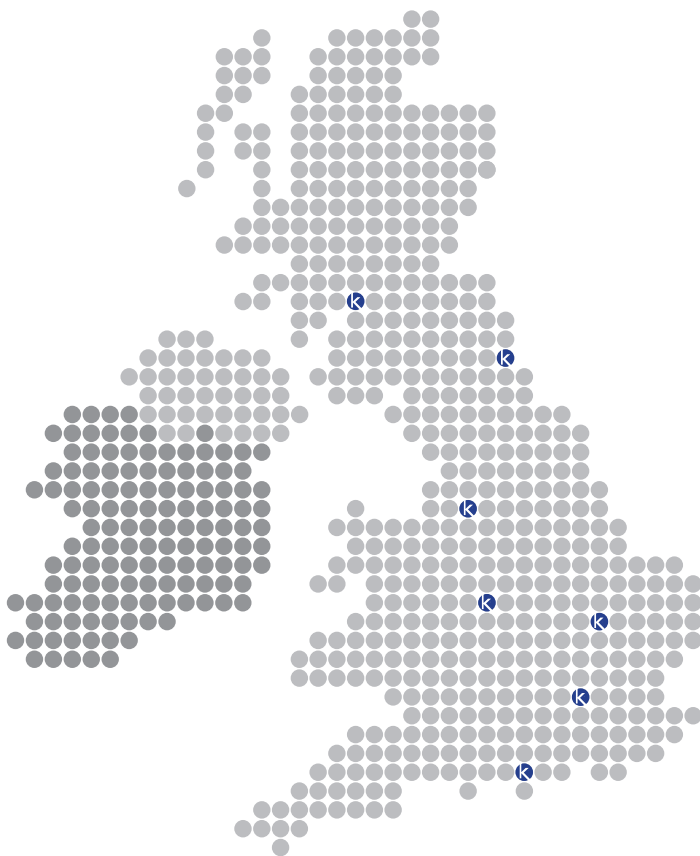
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www.kooltech.co.uk



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