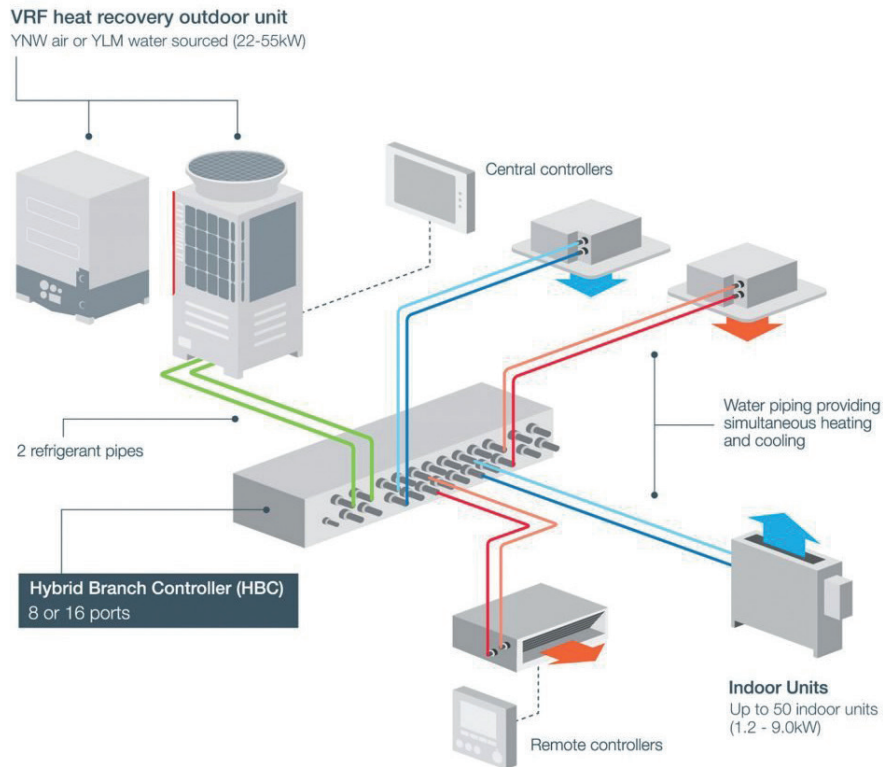




Kooltech Bespoke Solutions

K-CON R32/HYBRID VRF SYSTEM SOLUTION

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 EN378 and removing the need for refrigerant leak detection.



At the K-con factory all valves are tested to 3 bar and each HBC and Indoor unit with valve is fully certified

KS8 HBC (HYBRID BRANCH CONTROLLER) VALVE MODIFICATION

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

- Suitable for office developments or refurbishments
- Ideal for Hotel, retail or residential applications
- Easy maintenance, service and future expansion without the need to shut down the whole system ensures uninterrupted cooling and heating
- Quality assured - Factory fitted and tested valve solution



Valves include isolation, 1/2" capped outlet for positioning of the Auto-Air Vent (flow), Fixed Drain-off Cock (return), 22mm capped copper stub. (Auto-Air Vents are supplied with the indoor unit valve kits).

Mitsubishi Electric BC Controller Model No.	K-con Model (box and modification)	K-con Code
CMB-WM108V-AA	KS8-CMB-WM108V-AA Master	10101004
CMB-WM1016V-AA	KS8-CMB-WM1016V-AA Master	10101005
CMB-WM108V-AB	KS8-CMB-WM108V-AB Slave	10101006
CMB-WM1016V-AB	KS8-CMB-WM1016V-AB Slave	10101007

ENGINEERED AND MANUFACTURED IN THE UK BY





Kooltech Bespoke Solutions

KS8 HBC INDOOR ASSEMBLED VALVE KITS

Each kit includes both a flow and a return valve. Valves include isolation, 1/2" capped outlet (flow) for positioning of Auto-Air Vent, fixed Drain-off Cock (return). Auto-Air Vents are included separate to position on the indoor or the HBC flow valve. Finished with 3/4" or 1 1/4" female connection to suit press-fit pipework.



Model	Full Description	K-con Code
KS8 3/4" HBC Valve Kit	KS8 3/4" HBC Valve Kit Assy inc. Auto-Air vent	10100978
KS8 1 1/4" HBC Valve Kit	KS8 1 1/4" HBC Valve Kit Assy inc. Auto-Air vent	10100979

FAST, SIMPLE AND EFFECTIVE PIPING SOLUTIONS

Kooltech also offer a full range of braze-free Multi-layered Composite Press-Fit pipe-work systems, expansion vessels and water filling components designed to meet Mitsubishi Electric specifications. Traditional brazing of copper pipework and fittings is not recommended for this application due to the risk of system contamination.

MLC PRESS FIT-MULTI LAYERED COMPOSITE PIPE WITH ALUMINIUM BARRIER (BSEN/ISO 21003)

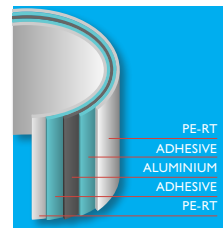
System benefits:

- Available in 50m coils reducing the number of joints and improving productivity
- Press-fit, no hot works or brazing required
- Inspection windows on fittings – visual check to ensure correct application
- Light weight for easy handling and transportation
- Formstable pipework – holds its shape once formed
- Full training with certification will be provided nationally
- 25 year guarantee (50 years on application)

For more information on Hybrid VRF installation materials contact us.



Multi-layered composite pipe and press-fit for Hybrid VRF combining the benefits of both plastic and metal pipes

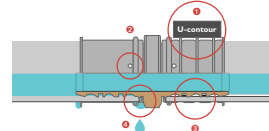


- 5 layers combining the benefits of plastic and metal pipes
- 100% Oxygen barrier – Aluminium barrier safeguards against oxygen penetration

- Low heat expansion (up to 10x less than plastic systems)

Length of pipe	Expansion at 50K
PEX	500mm
PP	450mm
PB	375mm
PC	250mm
Multitubo	62.50mm
Copper	41.25mm
Galv. steel	28.50mm
Stainless steel	27.50mm

Metal-press-fitting, 16 - 32mm



- Double pressing jaw guide 16mm - 32mm
- Inspection window for easy check of insertion depth of pipe
- Special profile geometry with O-rings made of EPDM
- Additional test safety

- Installation times reduced
- U-profile press jaws, fully compatible with alternative systems
- Secure double press

ENGINEERED AND MANUFACTURED IN THE UK BY



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