

HVRF system rolled out for leading decorating tools manufacturer

Air Conditioning



Leading manufacturer of painting and decorating tools, Ciret is benefitting from a new **Hybrid Variable Refrigerant Flow (HVRF)** system from Mitsubishi Electric.

Based in Havant, Hampshire, Ciret is part of the Storch-Ciret Group, Europe's foremost manufacturer of painting and decorating tools.

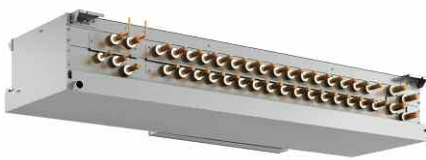
With a warehouse capacity of 9,500 pallets, Ciret manufactures and distributes more than 1,500 products from four key brands - Rota, Kana, Masq and Prep. It supplies major national chains as well as smaller hardware retailers, decorating stores and builders merchants across Europe.

As one of the most advanced air conditioning systems of its kind, the newly installed HVRF system will help Ciret cut energy costs in the long term and comply with new regulations and reduce its carbon footprint at its offices and 105,000ft² warehouse.

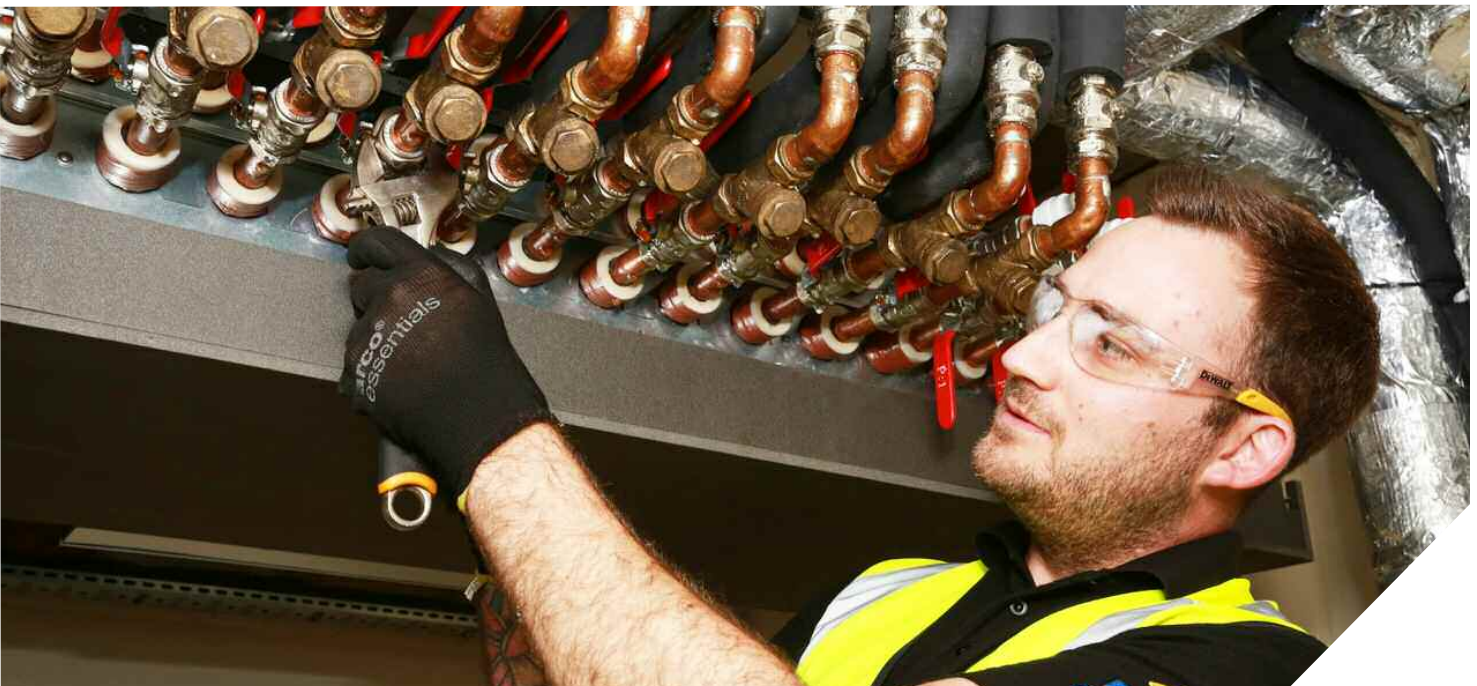
Mitsubishi Electric's City Multi HVRF system is a simultaneous heating and cooling two-pipe system that uses refrigerant between the outdoor units and the Hybrid Branch Controller (HBC) and water between the HBC and indoor units. By using water in occupied spaces there is no need for leak detection measures.

Closewood, a specialist in air conditioning, electrical and mechanical services and a Mitsubishi Electric Solutions Partner, was contracted to decommission Ciret's old, inefficient system and fit the City Multi HVRF.

Managing Director of Closewood, Dean Kirby, said: "We are always seeking to enhance our service for our clients. We explain the benefits and costs of traditional VRF system and the HVRF to clients to help them decide which is most suitable for their business. On this occasion we took the team from Ciret up to Mitsubishi Electric's head office for a presentation.



Hybrid Branch Controller



“Our business is growing substantially. This new system future proofs our business for upcoming regulations whilst making significant cost savings.”

Mark Carpenter
Ciret Managing Director

“With the drive towards reduced refrigerants and their rising cost, the hybrid system ticked all the boxes for Ciret in terms of environmental impact, efficiencies and future growth of the business.”

Closewood built two platforms to accommodate plant and installed 400 metres of pipework along with centralised and local control for the new system at Ciret.

It also instigated remote monitoring of the system with Mitsubishi Electric to allow for data collection which will provide information on the system’s operation performance.

Ciret Managing Director, Mark Carpenter, said: “Our business is growing substantially. **This new system future proofs our business for upcoming regulations whilst making significant cost savings.**”

“It allows us to grow in an environmentally sound way and create a more pleasant working environment for our present and future employees as we grow.

“The decommissioning of the old system and the implementation of the new system has been absolutely seamless, having minimal disruption to our business operation”.

Closewood recently achieved **Diamond Partner** status with Mitsubishi Electric for the quality of its service.



Installation Summary

CITYMULTI | Mr.SUM. | CONTROLS

R410A Outdoor Units

- x 3 R2 Series Standard Simultaneous Heating and Cooling with Heat Recovery Units (x 1 PURY-P350YLM-A1 / x 1 PURY-P250YLM-A1 / x 1 PURY-P200YLM-A1)
- 1x SUZ-KA50VA Standard Inverter Heat Pump
- 1x PUHZ-ZRP35VKA Power Inverter Heat Pump

Master HBC Controllers R410A (HVRF)

- x 1 CMB-WP1016V-GA1 / x 2 CMB-WP108V-GA1

Indoor Units

- x 28 PEFY-P-VMS1-E Ultra Thin Ceiling Concealed Ducted Units (x 2 Size 15 / x 11 Size 20V / x 2 Size 25 / x 2 Size 32V / x 6 Size 40 / x 5 Size 50)
- x 1 PLA-RP50BA Ceiling Cassette Unit
- x 1 PKA-RP35HAL Wall Mounted unit

Controls

- x 24 PAR-32MAA-J Remote Controller / 1x AE200 Centralised Controller



PURY-P200/250YLM-A1



PURY-P350YLM-A1



SUZ-KA50VA



PUHZ-ZRP35VKA



PEFY-WP-VMS1-E



PLA-RP50BA



PKA-RP35HAL



AE-200E



PAR-32MAA-J

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Note: The fuse rating is for guidance only. Please refer to the relevant databook for detailed specification. It is the responsibility of a qualified electrician/electrical engineer to select the correct cable size and fuse rating based on current regulation and site specific conditions. Mitsubishi Electric's air-conditioning equipment and heat pump systems contain a fluorinated greenhouse gas, R410A (GWP:2088), R32 (GWP:675), R407C (GWP:1774) or R134a (GWP:1430). *These GWP values are based on Regulation (EU) No 517/2014 from IPCC 4th edition. In case of Regulation (EU) No.626/2011 from IPCC 3rd edition, these are as follows. R410A (GWP:1975), R32 (GWP: 55), R407C (GWP:1650) or R134a (GWP: 1300).



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