

Hybrid solution holds plenty of appeal for Aspect Court

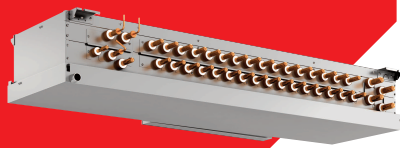
Air Conditioning



Located in Park Square in the heart of Leeds, Aspect Court is a modern red-brick building, recently converted from offices to high-end apartments.

As well as the latest communications technology, the five story building now features a state-of-the-art air conditioning solution from Mitsubishi Electric.

The **HVRF** solution combines the benefits of a water based system with the efficiency and flexibility of a VRF heat recovery system to provide an efficient, controllable air conditioning solution



Hybrid Branch Controller

With 65 rooms to refurbish, the Aspect Court retrofit demanded a heating and cooling solution that would fit with its high-end feel and appeal to modern professionals looking for a stylish apartment in the centre of Leeds.

The developer was looking for an efficient system with easy maintenance and was instantly impressed with Hybrid VRF (Variable Refrigerant Flow) simultaneous heating and cooling two pipe system.

The BS EN378 European standard recommends that leak detectors are included in installations containing refrigerant, within occupied spaces.

The HVRF system operates without using refrigerant in these occupied spaces, removing the need for the added expense of a leak detection system - as well as doing away with the need for the annual recalibration of each leak detector. The system makes use of traditional refrigerant piping between the outdoor heat recovery unit and the Hybrid Branch Controller (HBC) box but switches to water piping between the HBC and the indoor units.

After the consultation process had been carried out, Abey Air Conditioning moved in to carry out the installation.

Michael Abey of Abey Air Conditioning comments:

“Mitsubishi Electric is one of the leading air conditioning suppliers, at the forefront of modern technology such as the HVRF used in this project, with quality and customer service matched by competitive prices. Abey Air Conditioning put forward a simultaneous heating and cooling system that was both efficient to run and cost effective to install.”



Work on Aspect Court began in May 2016 and was completed in early 2017

Abey continues: “Due to the existing ceiling void there was a challenge of locating Automatic Air Vents (AAV) on pipes but this didn’t cause a lot of disruption and the installation was finished on time. The modular design of the HVRF allows for a phased installation which is ideal in projects of this nature.”

A total of 65 visually unobtrusive ultra-thin ceiling concealed ducted indoor units are installed internally at Aspect Court, whilst outside a PURY-P model Heat Recovery Unit delivers the precise output required.

The new system is controlled with an AE200 10.4 inch touch screen centralised controller. The simple and intuitive controller is able to monitor energy usage and load shed when necessary, allowing the user to make fast and easy adjustments to the system. Easily accessible graphs display energy usage in individual apartments.

Modern serviced buildings require air conditioning systems that provide high levels of comfort and freshness, whilst remaining as energy efficient as possible.

The HVRF solution delivers both. Its intuitive load adjusting capabilities will provide the entire building with the capacity it needs in order to improve efficiency and comfort while low noise levels and variable air flow ensure that the system runs extremely quietly and goes almost unnoticed by building occupants.

Assisting in providing a comfortable living environment, the new heating and cooling solution is a welcome addition to the Aspect Court building and is now helping to attract potential residents with its high levels of functionality.



Installation Summary

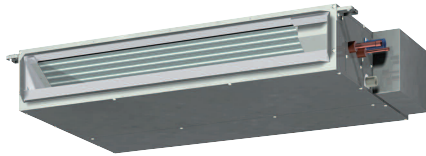
CITY MULTI | CONTROLS

Equipment:

- 1 x PURY-P model Hybrid VRF Heat Recovery Outdoor unit
- 65 x PEFY-WP- VMS ultra-thin ceiling concealed ducted Indoor units
- AE200 10.4 inch touch screen centralised controller
- 65 x PAR-31MAA room controllers for each apartment



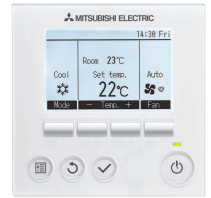
City Multi PURY-P



PEFY-WP- VMS



AE200



PAR-31MAA

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Making a World of Difference



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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: 550), R407C (GWP:1650) or R134a (GWP:1300).



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