

# Keeping hotel guests cool in Shakespeare's home town with a new Hybrid VRF air conditioning system

Air Conditioning



A hotel in the heart of Shakespeare's home town has turned to Mitsubishi Electric to deliver a new level of comfort and control to its guests.

## Case Study

## Hotel du Vin, Stratford-upon-Avon

“ Our team has worked incredibly hard over the last few months to ensure we can bring a much-needed boutique hotel and bistro to the area, which is befitting of a town with so much character and history. ”

**Nicolas Jefford**  
General Manager  
Hotel du Vin  
Stratford

At the beginning of May, Hotel du Vin opened the doors of its latest hotel, in Stratford-upon-Avon. The stunning refurbishment offers guests the option to stay in one of 46 stylish bedrooms spread across two converted grade II-listed townhouses, dine on home-style French cooking and make use of an event space for up to 70 people.

As part of the complete refurbishment, the installation of Mitsubishi Electric's unique City Multi Hybrid VRF air conditioning has ensured a perfect and comfortable environment for guests with complete energy efficient control for the hotel.

Guests have control over their own rooms with the stylish touch screen PAR-CT01MAA room controller, whilst the use of a centralised AE200 system gives hotel staff the ability to ensure the equipment is only used when rooms are occupied, and that rooms are brought to a comfortable temperature before guests arrive.

Mitsubishi Electric's solution has the ability to deliver heating and cooling simultaneously throughout the hotel. It has also helped the hotel to comply with BS EN378 regulations on refrigerants, which would usually require all bedrooms to be fitted with leak detection.







The Hybrid VRF system minimises the amount of on-site refrigerant because it uses water to transfer heating or cooling to the hotel bedrooms. This removes the need for additional leak detection equipment and reduces the annual maintenance costs for the hotel.

“Every aspect of our focus is on absolute guest comfort and this runs through everything from the décor, the service and the feeling within each room. It is therefore vital that we have reliable heating and cooling that both we and our guests can control, so that we can provide the right environment with minimum energy use,” said Mr Jefford.

In addition to the use of air conditioning in the hotel’s rooms, the ground floor restaurant uses Mitsubishi Electric’s City Multi R2 heat recovery system to help keep the restaurant at a pleasant temperature.

The R2 VRF incorporates Lossnay heat recovery vents to extract stale air and use it to heat or cool incoming fresh air.

“It’s still early days but so far, we have been impressed with the system,” added Mr Jefford.



# Installation Summary

CITYMULTI | CONTROLS

### Outdoor Units:

- x 1 PURY-P350YLM-A1
- x 2 PURY-P400YLM-A1
- x 1 PURY-P450YLM-A1

### Master HBC Controllers:

- x 5 CMB-WP108V-GA1
- x 2 CMB-WP1016V-GA1

### Indoor Units:

- x 1 PFFY-P20VLRMM-E Floor Standing Unit
- x 1 PFFY-P63VLRMM-E Floor Standing Unit
- x 3 PFFY-WP50VLRMM-E Floor Standing Unit
- x 20 PEFY-WP15VMS1-E Ducted Unit
- x 36 PEFY-WP20VMS1-E Ducted Unit
- x 2 PEFY-WP32VMS1-E Ducted Unit
- x 1 PEFY-WP40VMS1-E Ducted Unit
- x 2 PEFY-P80VMA-E2 Ducted Unit

### Controls:

- x 2 AE-200E Centralised Controller
- x 1 Procon MELCOTEL Hotel Interface
- PAR-CT01MAA Room Controllers



PURY-P350/400YLM-A1



PFFY-P-VLRMM-E / PFFY-WP-VLRMM-E



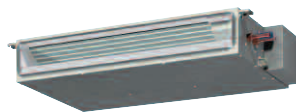
Procon MELCOTEL



PAR-CT01MAA



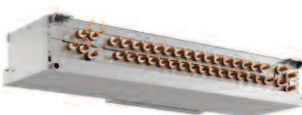
PURY-P450YLM-A1



PEFY-WP-VMS1-E



AE-200E



CMB-WP108/1016V-GA1



PEFY-P-VMA-E2

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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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