



## J D Wetherspoon chooses hybrid air conditioning

A new hotel in Huntingdon is using a unique hybrid air conditioning system to deliver controllable comfort for its guests without the added expense of leak detection equipment.

The 20-bed hotel has been added to a Grade II Listed former post office and neighbouring hall which has been renovated and transformed into a thriving new pub by national hotel and restaurant chain, J D Wetherspoon.

The Hybrid VRF (Variable Refrigerant Flow) air conditioning system has been chosen specifically because it enables the Wetherspoon hotel to comply with British Standard EN378 – something that will affect more and more hotels and offices over the coming years.

BS EN378 calls for additional leak detection equipment in certain applications such as hotel bedrooms, when refrigerant-based air conditioning is used.



# Air Conditioning

## Case Study

### J D Wetherspoon hotel

Making a  
World of  
Difference

### Installation Summary

2 x Outdoor heat recovery unit  
(PURY-P200YLM-A1)

22 x Indoor ultra-thin concealed ducted units  
(PEFY-WP20VMS1-E)

3 x Master HBC Controllers (Hybrid VRF)  
(CMB-WP1016V-GA1)

22 x Room controllers (PAC-YT52CRA-K)

1 x AE200 Centralised controller

The key to Hybrid VRF's appeal is the fact it uses water rather than refrigerant in the pipework to supply heating or cooling to the rooms. At the same time, the system delivers the same controllable air conditioning and design flexibility that the City Multi VRF range is renowned for.

"Avoiding leak detection is the main advantage of HVRF," explains Craig Arrowsmith of Abbey Plumbing, the company commissioned to install the system.

"If every room has to have detectors it's a bigger expense for everyone; wiring, installation, parts, the frequent checking to ensure it works, so to get rid of the need for that makes a difference."

Hybrid VRF delivers the simultaneous heating and cooling, and the high levels of energy efficiency offered by traditional VRF via a simplified two-pipe design. It also uses the same advanced controls. As a modular system, it can be installed in phases reducing both business disruption and downtime.

The hotel was completed in September 2016 and the client's requirement for all services to be out of sight led to the choice of ultra-thin ceiling-concealed ducted indoor units. With operational noise levels as low as 22dBA, they are ideal for hotel rooms.

Each room is fitted with compact remote controllers so that they are easy for guests to use. A room temperature sensor is built into this remote controller and a centralised control system allows the hotel staff to oversee the whole operation.



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