



**MITSUBISHI  
HEAVY INDUSTRIES**

AIR CONDITIONING  
& WATER HEATING

MITSUBISHI HEAVY INDUSTRIES

# Case Study: MHI VRF just the ticket for travel company

**CASE STUDY:**  
**NELSON HOUSE,**  
**GUILDFORD, SURREY**



**Key client David Blakey Services (DBS Group) has completed yet another successful VRF installation using MHI equipment for a travel company in Guildford, Surrey.**

Working closely with MHI's Projects Team, MHI's 3-pipe heat recovery VRF systems was chosen for the two-floor office refurbishment, providing simultaneous heating and cooling and offering outstanding control across the building.



AVAILABLE FROM MHI DIRECT & ALL BEIJER REF UK BRANCHES

dean&wood



rw

dwg

**“We’ve worked with MHI on numerous projects in the past and have always found it to be a success. We knew that fitting MHI again would result in a top-quality solution.”**

**JOSH WHITE, DBS GROUP PROJECT MANAGER**

Simultaneous operation means one indoor unit can be in cooling when another is in heating mode for maximum flexibility. In addition, the MHI units can recover energy from within the system that would otherwise be discarded and use it to heat or cool a room. Together, this results in increased usability and energy efficiency when compared to heat pump VRF systems.

A crane lift saw the three outdoor units installed in a central rooftop area. Floor one uses a 67kW outdoor unit (FDC670KXRE2) feeding 4 Compact Cassettes and 11 Standard Cassettes. The system delivers a Seasonal Energy Efficiency Ratio (SEER) of 5.5 and a Seasonal Coefficient of Performance (SCOP) of 4.5. Floor two sees two 45kW outdoor units (FDC450KXRE2) connected together to serve 7 Compact Cassettes and 9 Standard Cassettes, with SEER of 6.29 and SCOP of 4.32.

The Compact Cassettes have a chassis size of 570x570mm, meaning they fit into a standard 600x600mm tile without the need to adapt the ceiling.

Control and comfort were important considerations, and the 3-pipe systems were selected because of the improved control available across multiple zones from a central controller. The offices operate Monday-Thursday and the ability to control and programme when the systems operate was key.

All cassettes installed feature individual louvres and low-ceiling fan mode options. Users can still select a low / med / high fan speed, but with the setting active, all fan options will be reduced from standard rpm.

Claryhs Radford, Sales Engineer MHI Projects said “Of course, we know how impressive the MHI 3-pipe heat recovery equipment is, and this installation takes full advantage of connecting multiple indoor units to a single port on a PFD box to reduce the equipment cost.”



**“It is always good to hear an independent endorsement from such a respected customer. The fact that DBS Group has chosen MHI VRF equipment yet again speaks volumes for its quality.”**

**If you would like more details about our range of VRF air conditioning systems, then please contact MHI Direct or your local Beijer Ref branch today.**