

# Upgrade brings a Zen-like quality to the Angel Hotel

Air Conditioning



Set in the heart of Abergavenny on the edge of the Brecon Beacons, the Angel Hotel offers luxurious, award winning accommodation to visitors from around the world. A former 19th century coaching inn, the 35 room hotel has now been modernised and refurbished in order to offer guests a level of personal attention and comfort that exceeds their expectations.

The Angel has an impressive pedigree - former guests include Gregory Peck, Richard Burton and Elizabeth Taylor - and after years of underinvestment the historic building is now getting the care and attention it deserves.

Since taking over the site in 2002, the management team at the Angel Hotel have made it their mission to become the regional hotel of choice and in 2016 they secured the AA Hotel of the Year, Wales.

As part of this commitment to excellence, the hotel management demanded the very best in air conditioning technology and recently selected contemporary Zen indoor units for the stylish bedrooms.

Marketed as a high-quality boutique hotel with a unique but old fashioned room layout, it was imperative that no pipework was put on display and that the installed units should have aesthetic appeal and run quietly.

**Mitsubishi Electric's Zen Series** is a low profile, unobtrusive wall mounted system that blends seamlessly with its surroundings and offers lower power consumption twinned with powerful performance. The sophisticated elegance of the units makes them an ideal choice for hotel environments.

Serving the Zen units is a **City Multi R2 heat recovery system**, which is able to offer simultaneous heat and cool different rooms throughout the building. The previous air conditioning was not able to achieve this in the way required by the owners.

Hotels regularly require cooling in some areas and heating in others and City Multi is the only VRF (Variable Refrigerant Flow) system able to offer simultaneous heating and cooling using only two pipes instead of the usual three.

The system's two pipe technology also meant that disruption to guests and hotel staff was kept to an absolute minimum during the refurbishment.

City Multi is also capable of delivering dramatic efficiency improvements and the Angel Hotel can now expect savings of up to 30 per cent.



In a building as old as the Angel Hotel it can be difficult to carry out work without causing structural or cosmetic damage.

The building is made up of stone walls and contains a whole host of annexes and awkward spaces to work in.

Cardiff-based Airpro Systems Holdings was brought in to carry out the installation and was mindful not to disturb the historic building any more than necessary.

Mark Derbi of Airpro comments: "At times the Angel proved to be a testing installation. The rooms needed to be refurbished one at a time and we were very aware that the bulk of the air conditioning needed to be hidden from sight without risking damage to the fabric of the building.

"With the builder also on site high levels of cooperation were needed to ensure that we were able to stay on schedule and meet the timescale set out by the client."

After 30 indoor units had been successfully installed, **Mitsubishi Electric PAR-31MAA room controllers** were wired in and temperature restrictions were set up. These enable guests to have control of their heating or cooling within a range controlled by the hotel to ensure absolute comfort combined with maximum efficiency.

With a user-friendly backlit screen and simple to use adjustment controls the room controllers provide both guests and hotel employees with the high levels of functionality expected in a state-of-the-art heating and ventilation installation.

Sympathetic restoration work and carefully considered upgrades have ensured that the Angel Hotel has been returned to its former glory.

The new energy efficient heating and ventilation system is a key part of the transformation, helping to provide a comfortable environment for guests and enhancing the hotel's growing reputation as the place to stay in South Wales.



# Installation Summary

CITY MULTI | Mseries | CONTROLS

**System:**

- VRF City Multi R2 Heat Recovery units & Zen Series MSZ-EF wall mounted system

**Equipment:**

- A City Multi R2 heat recovery system is able to offer simultaneous heating and cooling to different rooms throughout the building
- The outdoor unit serves 30 Zen Series indoor units which offer a stylish, low profile, unobtrusive wall mounted system delivering lower power consumption twinned with powerful performance

**Controls:**

- Each room utilises a PAR-31MAA room controllers to offer guests individual control, whilst a centralised AE200E controller allows the hotel staff to monitor and control energy use throughout the building



City Multi R2 Unit



Zen Indoor Unit



PAR-31MAA



AE-200E

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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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