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Toshiba Solutions

Hotel development – energy-monitoring option

Equipment:

Toshiba R410A VRF SHRM
Ducted units
Slim ducted units
Energy monitoring
Windows™ control system
Customised controls covers



The prestigious apartment building



The special design room grilles



A penthouse apartment

Application details

Energy monitoring devices have been installed within the overall installation so that any of the sixty suites can be individually billed for their own energy consumption, if required. Toshiba interactive central control has been provided so that the entire system can be viewed on an interface in the building or at the hotel's main reception.

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Solution

The installation of five Toshiba SHRM heat recovery VRF systems, with energy monitoring and Windows™ based controls, at the Liffey Valley Clarion Hotel Suites apartment block breaks new ground in Dublin.

The fifteen outdoor units combined in groups of three are located on the roof of the five storey block. Seventy-seven ducted indoor units deliver 30 HP per floor, and the system not only provides heating and cooling but can deliver additional energy savings with its heat recovery design.

The Toshiba controls determine the mode and temperature of any indoor unit and night set-back can be incorporated if required. When the room temperature reaches 10°C, the Interactive Intelligence system over-rides the card-key and re-programs the controller to provide heat until the room reaches 15°C.

The Toshiba VRF equipment on this project delivers 420 kW of cooling and 470 kW of heating via slim ducted units which are only 210mm high.

Air is ducted through grilles within the apartments. The grilles are of a special design that combines both the supply and return air flows.

The development has been finished to a high standard and the individual Toshiba controls have been fitted with anodized aluminium covers to match the décor.

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The Toshiba SHRM units on the roof



The electrical control box with the energy monitors

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