

Toshiba Solutions

Large hotel refurbishment utilises Toshiba SMi VRF system

Case Study: Crowne Plaza

A multi-million pound fast-track refurbishment project, including Toshiba SMi VRF heat recovery systems, carried out with guests in residence. The hotel has spent more than £10 million to date on upgrading a wide range of facilities including its sixteen room conference wing.



Application

The luxurious Crowne Plaza Hotel at Heathrow is popular with sports teams using the Twickenham arena and other stadia to the West of London. It is also an internationally renowned conference location.

When it came to refurbishing its air conditioning system it needed the level of quality that befitted its reputation, an exceptional degree of flexibility in installation and very good value.



The solution

Toshiba, specified and fitted by the experienced Toshiba Accredited Installer CF Environmental Services Ltd, won the project. Installation was done in phases, and no more than forty of the four hundred plus rooms were affected at any one time. But CF had to work both vertically and horizontally in the building at the same time because of the pipe runs, and the work had to be completed to a very tight timetable.

There are over fifty roof-mounted 3-pipe VRF systems serving the hotel, and in excess of 400 indoor units. All the multi-controllers are also roof-mounted. They were weather-proofed and sit on frames. At every phase of the job old single package cooling units needed to be taken out and the refrigerant reclaimed. The machines came out in the morning and by the afternoon the bricklayers were filling in the holes.

In just a few months over 300 bedrooms were completely refitted. Air conditioning was also installed in training and conference rooms, board rooms, overflow lounges, bars and other public areas. There is very little ceiling space anywhere in the hotel, so the indoor units are predominantly chassis units built into concealed wall-cabinets. There are also a few four-way and two-way cassettes and high-wall units. Individual unit control was an important requirement.

The simplified Toshiba control, specially designed for hotels some years ago in conjunction with CF Environmental, was redesigned for this job and simplified still further.

In the bedrooms fresh air is introduced through trickle vents and pulled through by the positive pressure of the active bathroom extract fans. In the conference area fresh air is introduced mechanically into the return air plenum by a motorised damper in each room.

"A huge showpiece installation of Toshiba's versatile VRF systems by CF Environmental Services."



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