

## PROJECT **Air Conditioning case study**

**Stockley Rd, West Drayton, London.**



### **client**

Crowne Plaza, Heathrow

### **facilities required**

Toshiba SMi VRF heat recovery systems.

### **our role**

To design and install an air conditioning system for 300 of the hotel's bedrooms as well as the boardrooms, conference facilities, overflow lounges, bars and other public areas.

### **engineering solution**

- 🌀 installation flexibility
- 🌀 to work vertically and horizontally in the building at the same time due to pipe runs
- 🌀 installation of 50 roof mounted 3 pipe VRF systems
- 🌀 in excess of 400 indoor units throughout the hotel
- 🌀 old single package cooling units removed and refrigerant reclaimed
- 🌀 due to lack of ceiling space in the meeting rooms, the indoor units are predominant chassis units built into concealed wall-cabinets
- 🌀 a simplified version of a control system specifically designed for hotels was installed to keep system user friendly
- 🌀 in the bedrooms fresh air is introduced through trickle vents and pulled through by the active bathroom extract fans
- 🌀 in the conference area, fresh air is introduced mechanically into the return air plenum by a motorized damper in each room

### **outcome**

Work completed on time under a tight schedule with minimum disruption to guests in residence. Works completed within budget. Works conducted within "live" hotel. Enhanced staff and customer comfort.