

## 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.