



HVAC refurbishment leads to comfort and calm

A prestigious hotel in Buckinghamshire has utilised an air conditioning system from Mitsubishi Electric to maintain the comfort and calm of its luxurious environment.

The Bull Hotel in Gerrard's Cross has been welcoming guests since it first opened in 1688 as a coaching inn on the old main road from London to Oxford. Its current interior combines warm British hospitality with modern comforts and merges contemporary and traditional elements within the 150 bedrooms, award-winning restaurant and 13 multi-purpose meeting and function rooms.



Air Conditioning

Case Study

The Bull Hotel

Making a
World of
Difference



“With individually controlled air conditioning in the rooms, it’s much more comfortable for our guests”
Gary Tyler, hotel maintenance manager

In the last few years the hotel has grown in size and undertaken an extensive refurbishment programme that incorporated an upgrade to its air conditioning system in both the guest bedrooms and public spaces.

Hotel maintenance manager Gary Tyler says: “It has made a big difference for us to be able to offer more air conditioned rooms, because they used to get very hot in summer. Now, with individually controlled air conditioning in the rooms, it’s much more comfortable for our guests.”

One of the key challenges for the refurbishment was to provide a flexible solution to meet the varying requirements of the hotel, but one which would also fit in with the aesthetics of the building.

Installer Thermacool was tasked with the refurbishment as Paul Azevedo explains: “Over the past few years we have been carrying out continuous work to modernise the entire system in the guest bedrooms, conservatory and bar area. In some of the older areas of the building there was no air conditioning at all while in other areas, older systems were in need of replacement. We therefore needed to find a solution which would work in all areas.”

The latest installation utilised a 28kW City Multi Outdoor unit that serves eight ultra-thin ceiling-concealed ducted units which provide heat recovery. City Multi is a flexible system, which can offer a complete heating and cooling solution for a building by distributing surplus heat from cooling operations (and vice versa) to rooms where it is needed. This efficiency can result in energy savings of up to 30% over conventional systems.

Paul says: “We worked very closely with Mitsubishi Electric to ensure that the size of plant was correct for the building and this included adding additional capacity in order to serve more bedrooms from the new system. This was one of the major benefits of the City Multi solution as we were able to specify a second outdoor unit to meet the additional load of the extra rooms.”



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Installation Summary

28kW City Multi outdoor unit PURY 300 with heat recovery serving four function rooms

Outdoor units concealed in the hotel garden

20 ultra-thin ceiling-concealed ducted indoor units

Individual room Mitsubishi Electric controllers for occupants

2 x 28kW City Multi outdoor unit PURY 200 serving 20 bedrooms

Control in the 20 guest rooms upgraded by Thermacool is provided by the Mitsubishi Electric wall-mounted Simple MA remote controller that enables occupants to make changes to the temperature, fan speed and air direction. The additional benefit is that this also allows for centralised control by hotel staff.

Gary Tyler adds: "We're very happy with the installation. Mitsubishi Electric is a big name in air conditioning, and you can't go wrong with them."

Paul concludes: "The entire installation was very simple and more than met the requirements of the client. The additional benefit for them is that we were able to conceal the outdoor units in the garden and run 100m of pipework underground into the building to ensure the environment was kept free from visible plant. Noise levels have also been kept to a bare minimum thanks to the quiet operation of the City Multi solution."



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