

### Case Study for the Premier Inn Bude Cornwall.

A new built 62 bed hotel in Bude has been designed and installed with Mitsubishi HVRF systems by Antony Grice Ltd, which was designed for HVRF by Thornley & Lumb Consultants.

The design was specific due to the restricted location of the outdoor units, which was further complicated as the noise criteria enforced the use of attenuation equipment.



Springcourt House • High Street (Off Mount Street) • Stapleford • Nottingham • NG9 8AG  
Tel: (0115) 939 4449 • Fax: (0115) 949 9275 • Email: [enquiries@agrice.co.uk](mailto:enquiries@agrice.co.uk)

The 4 storey building HVRF installation commenced in June 2017, to be completed and handed over to the client by late December 2017



Springcourt House • High Street (Off Mount Street) • Stapleford • Nottingham • NG9 8AG  
Tel: (0115) 939 4449 • Fax: (0115) 949 9275 • Email: [enquiries@agrice.co.uk](mailto:enquiries@agrice.co.uk)

The contract was awarded to Antony Grice Ltd and the designs carried out, using 4 x Mitsubishi HVRF systems, serving the restaurant, offices and bedrooms with a total of 68 various styles and sizes of indoor units. There were further impacts on the design of the hotel due to the physical sizes of the BC boxes, which require the pressurisation and expansion vessels to be located as close as possible.

Typical riser cupboard and roof space photos below



Typical bedroom indoor ducted unit installed with the ventilation ductwork, HVRF and condense drain pipework, indicating how tight the space was to work with. But with careful planning and an established site co-ordination work detail the installation has been carried out successfully.



The option to use HVRF systems negated the use of a leak detection system, which was a criteria the Consultants were keen to avoid as disturbance to the hotel guests is paramount at all times. Therefore Whitbread were delighted that their hotel at Bude is their first fully operating hotel using Mitsubishi HVRF systems.