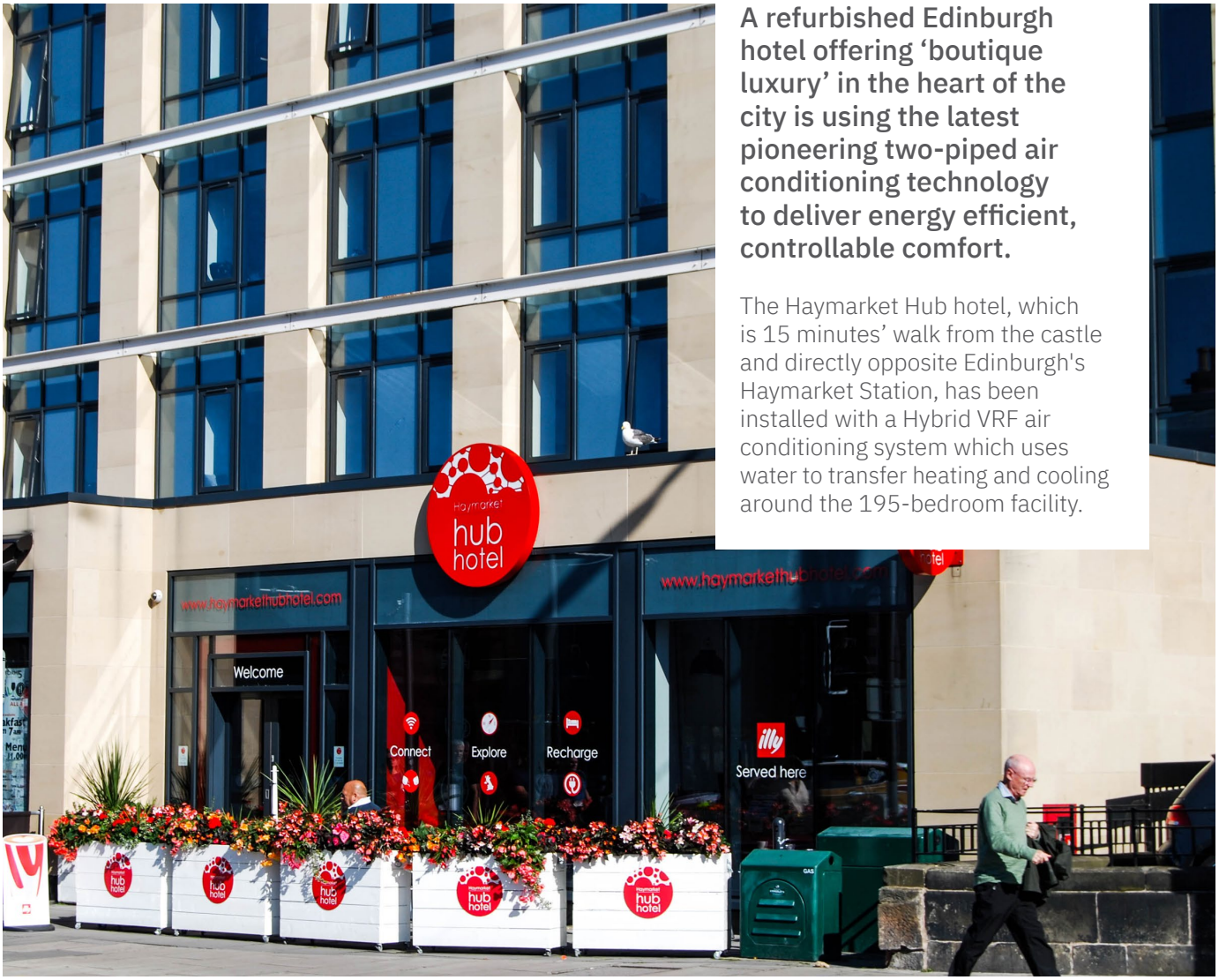
MITSUBISHI ELECTRIC

Case Study

Hybrid technology for Edinburgh's latest boutique hotel

HybridVRF



A refurbished Edinburgh hotel offering 'boutique luxury' in the heart of the city is using the latest pioneering two-piped air conditioning technology to deliver energy efficient, controllable comfort.

The Haymarket Hub hotel, which is 15 minutes' walk from the castle and directly opposite Edinburgh's Haymarket Station, has been installed with a Hybrid VRF air conditioning system which uses water to transfer heating and cooling around the 195-bedroom facility.

The Haymarket Hub was purchased in 2018 by The Edinburgh Collection, which is renowned for a series of luxury hotels in Scotland's capital. The refurbished hotel offers a "business class" service, which includes enhanced facilities and inclusive offerings for traveller convenience.

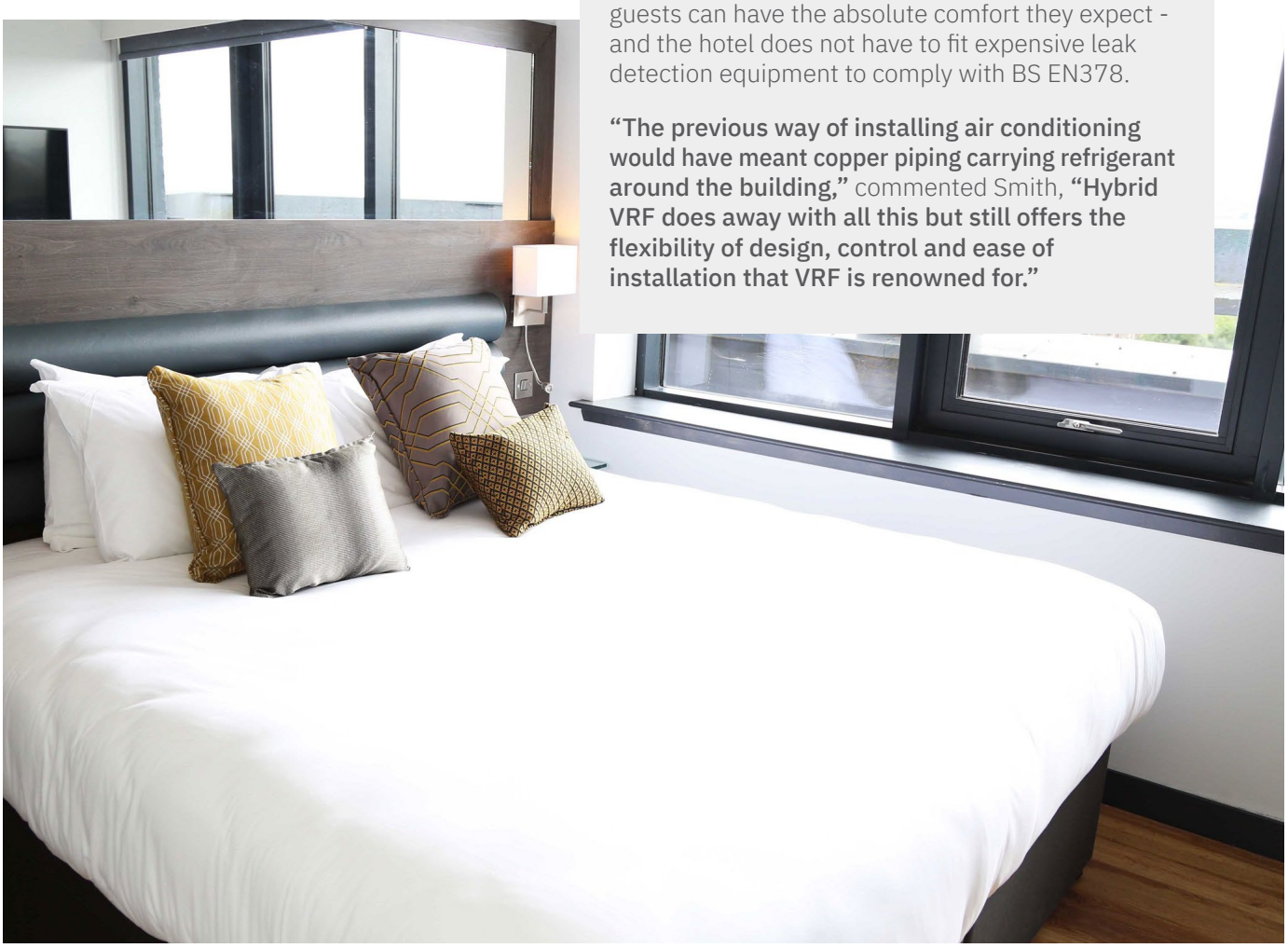
Bedrooms feature beds from Hypnos, power showers and luxury toiletries. Guests can stay connected throughout their visit with Handy smart phones - the first in Scotland - with free data and free UK and internationals calls to 10 countries including Australia, China, India and the USA.

"The Edinburgh Collection prides itself on modern levels of comfort for guests and when we proposed installing Hybrid VRF, the client was in complete agreement," explained Simon Smith, Project Manager for All Seasons Group Ltd, who designed, installed and commissioned the system.

Eight dedicated outdoor condensing units deliver energy harvested from the outdoor air to special Hybrid branch controller (HBC) boxes strategically placed in laundry cupboards throughout the building.

From these control boxes, plastic water piping runs within the ceiling void to every hotel room rather than traditional refrigerant piping, meaning that guests can have the absolute comfort they expect - and the hotel does not have to fit expensive leak detection equipment to comply with BS EN378.

"The previous way of installing air conditioning would have meant copper piping carrying refrigerant around the building," commented Smith, **"Hybrid VRF does away with all this but still offers the flexibility of design, control and ease of installation that VRF is renowned for."**



All Seasons Group Ltd, which operates throughout the UK, is a **Diamond Quality Partner** with Mitsubishi Electric which demonstrates the highest level of care and quality possible. DQPs undergo annual independent audits of their work and in return are able to offer their clients extended warranties.

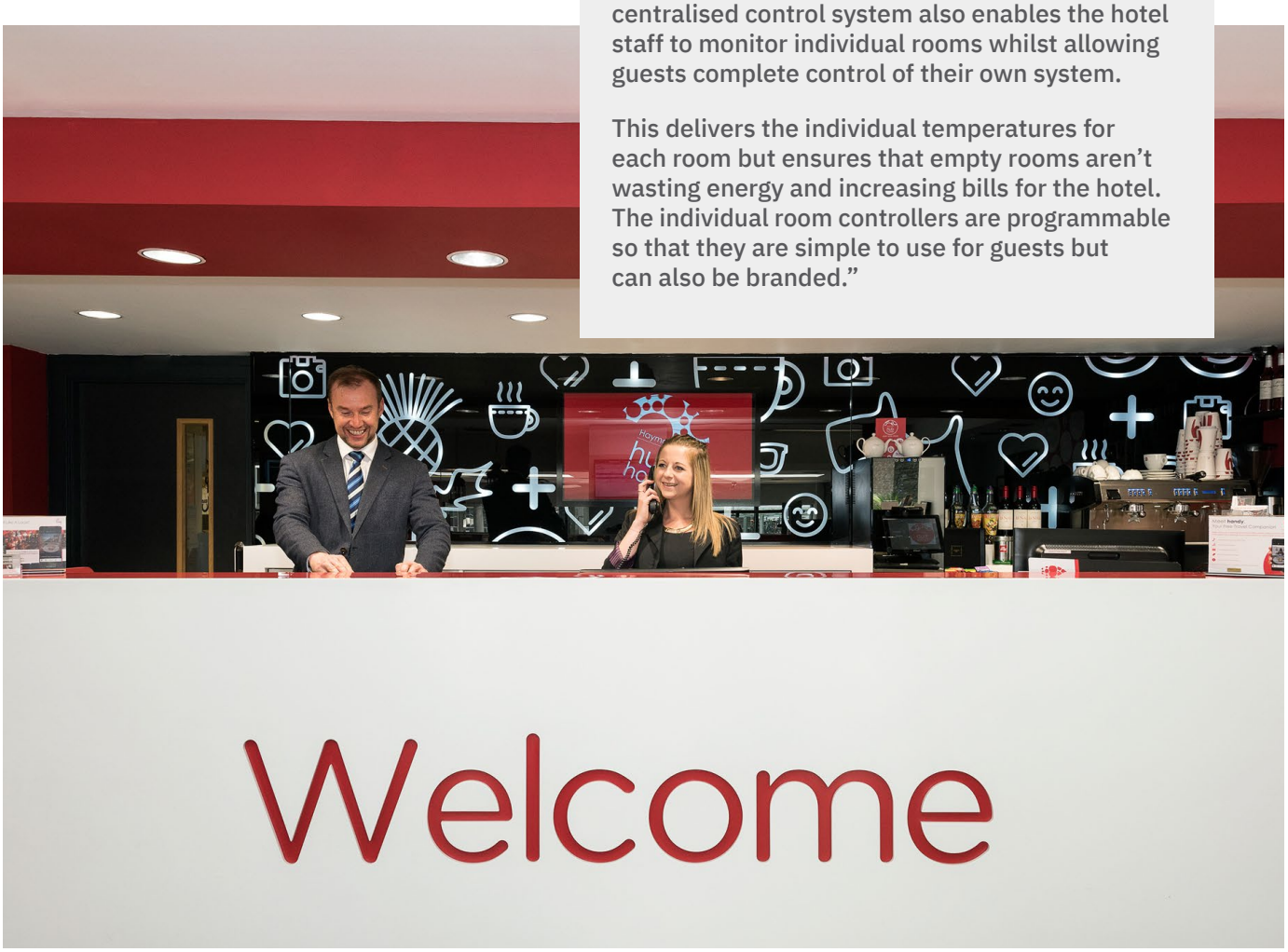
"Not only does the Haymarket Hub benefit from the most advanced and controllable air conditioning but we can back it up with full support from ourselves and the manufacturer," said Smith.

The design of the system also minimises any noise for guests, which is always a major consideration in any hotel. The siting of the HBC boxes in the laundry room allows for easy access for maintenance and means individual rooms can be shut down without having to drain the whole system.

"Simon and his team at ASG had to remove the previous old system which was no longer fit for purpose and then install the new one in time to help with reducing running costs during the winter heating season," explained Ricky Kapoor, managing director of the Edinburgh Collection.

"This new addition to our Edinburgh portfolio will enable us to further meet the demands of a variety of visitors and travellers to Scotland's capital. A centralised control system also enables the hotel staff to monitor individual rooms whilst allowing guests complete control of their own system.

This delivers the individual temperatures for each room but ensures that empty rooms aren't wasting energy and increasing bills for the hotel. The individual room controllers are programmable so that they are simple to use for guests but can also be branded."



Case Study

The Haymarket Hub hotel Edinburgh

HybridVRF

Installation Summary

Outdoor Units:

7 x City Multi PURY-M250YNW-A1 Condensing Units

1 x City Multi PURY-M200YNW-A1 Condensing Unit

CITY MULTI

Indoor Units:

195 x PKFY-WL10/15-VLM-E HVRF Wall Mounted Units

3 x PKFY-P-VLM32/50-E Wall Mounted Units

1 x PKA-M71KA Wall Mounted Unit

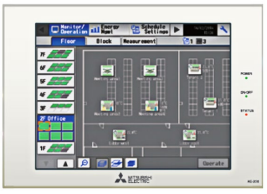
1 x PLFY-M100VEM-E Ceiling Cassette

CITY MULTI

Controls:

Centralised Control System: AE-200E / EW-50E

Room Controllers: PAR-FL32MA



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Changes for the Better

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Note: The fuse rating is for guidance only. Please refer to the relevant databook for detailed specification. It is the responsibility of a qualified electrician/electrical engineer to select the correct cable size and fuse rating based on current regulation and site specific conditions. Mitsubishi Electric's air conditioning equipment and heat pump systems contain a fluorinated greenhouse gas, R410A (GWP:2088), R32 (GWP:675), R407C (GWP:1774), R134a (GWP:1430), R513A (GWP:631), R454B (GWP:466), R1234ze (GWP:7) or R1234yf (GWP:4). *These GWP values are based on Regulation (EU) No 517/2014 from IPCC 4th edition. In case of Regulation (EU) No.626/2011 from IPCC 3rd edition, these are as follows. R410A (GWP:1975), R32 (GWP:550), R407C (GWP:1650) or R134a (GWP:1300).

Effective as of April 2021

Green Gateway greengateway.mitsubishielectric.co.uk