



BrewDog, Manchester



Daikin's in the DogHouse – air conditioning 'carbon negative' hotel

Fast-growing Scots-based multinational craft brewer and pubs chain BrewDog takes pride in its environmental credentials – which is why Daikin VRV IV heat recovery systems were a natural choice for air conditioning its new, 'carbon negative' DogHouse boutique hotel and bar in Manchester.

BrewDog has taken on a modern three storey building – formerly retail and commercial space – on Fountain Street, close to the city's Northern Quarter. The ground floor is a 30-tap pub – the company's third in the city – and there's a roof terrace for outdoor partying.

The two upper floors have been remodelled to provide 18 trendy guest rooms with a host of features – including beers in the shower and in-room beer taps – designed to ensure a novel but comfortable overnight experience. The hotel is also dog-friendly.

The upper floors are part-hidden by a 26,000-plant green wall on the street frontage, echoing the company's mission to become the world's most sustainable drinks brand.

James Watt, co-founder of BrewDog, says: "With our DogHouse hotels, we want to inspire a new kind of hospitality experience, combining our biggest passions: travel and incredible beer – with sustainability at the core."

BrewDog retail property director Will Brown says: "We want our guests to enjoy every moment of their time with us, so efficient and reliable air conditioning is very important – and better still when it has Daikin's strong green credentials."

Year of installation

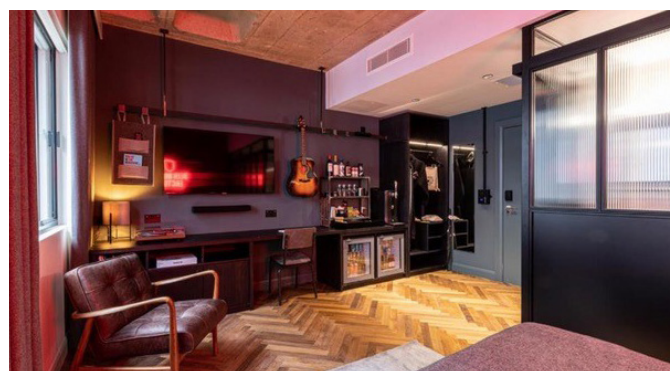
› 2021

Project requirements

- ☒ Air conditioning
- ☒ Air curtain
- ☐ Air purification
- ☒ Control
- ☐ Heating
- ☐ Hot water
- ☐ Refrigeration
- ☐ Ventilation

Installed systems

- › VRV IV Heat Recovery
- › Branch selector unit
- › Slim concealed ceiling unit
- › Concealed ceiling unit
- › Biddle air curtain



Accrington-based air conditioning specialist Whalley Climate was appointed to install the three Daikin systems serving the pub and bedrooms.

Rob Lord Director of Whalley climate says: "At Whalley Climate, we want to make sure that our clients receive not only the best service from ourselves but benefit from the best solution available at the time. With the reclaimed refrigerant within the VRV systems, it enabled us to deliver not only a top-level install but also meet BrewDog's requirements for sustainability."

The Daikin VRV IV outdoor units are located in a ground floor service area to the rear of the building. Two 10kW systems each serve one of the upper floors, while an 18kW unit serves the ground floor.

Each of the 18 guest rooms has a slim concealed ceiling unit with a black Madoka controller, enabling guests to adjust room temperatures if desired. Each room also has its own branch selector unit, giving maximum flexibility to the three pipe heat recovery system.

The ground floor pub area is served by three concealed ceiling units with medium static pressure. Each of these has its own branch selector – as does the main entrance's free-hanging 13.4kW Biddle air curtain, which also runs off the 18kW outdoor unit. There is a single remote controller for the ground floor system.

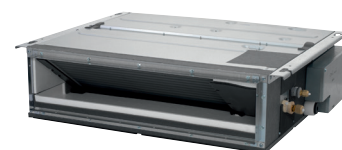
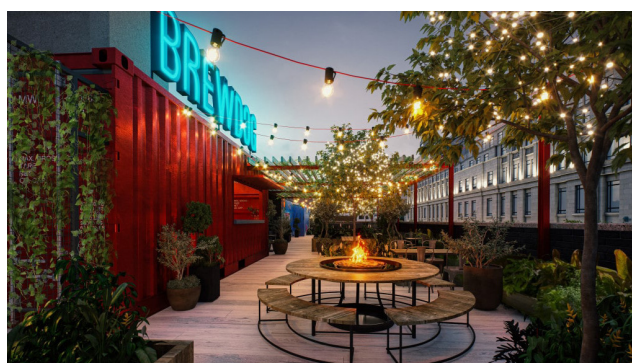
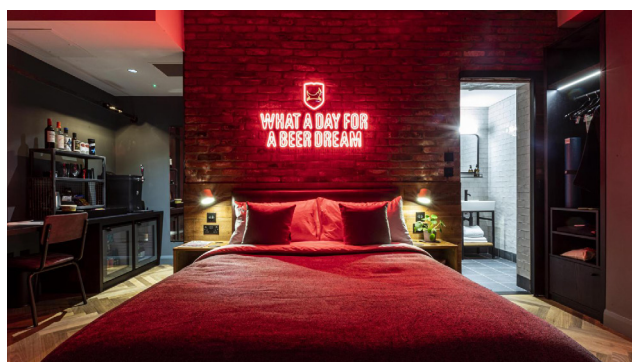
Daikin VRV IV heat recovery systems are based on reclaimed R410A refrigerant which, through the LOOP concept, is a way of minimising the Carbon footprint of the system. The development of techniques for the safe recovery and reprocessing of the material to 'as new' condition underpins the continuing success of VRV IV systems.

The Manchester hotel is BrewDog's second DogHouse. The first opened in Columbus, Ohio, in 2018. This was followed by city centre mini-hotels 'The Kennels' in Columbus and Aberdeen in 2019.

Since 2007, BrewDog has grown into a global chain of more than 100 bars, with breweries in the United Kingdom, United States, Germany and Australia. Its latest venture is a 27,000 sq.ft two-level pub with on-site brewery, part of the redevelopment of the former Eurostar terminal at London Waterloo.

Kit list

Code	Description	No of units
REYQ-U	VRV IV Heat Recovery outdoor unit	3
BS1Q-A	Branch selector unit	22
FXDQ-A3	Slim concealed ceiling unit	18
FXSQ-A	Concealed ceiling unit – medium ESP	3
CYVM200D-K100FBC	Biddle air curtain	8
BRC1H52W	Madoka remote controller Black	19



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