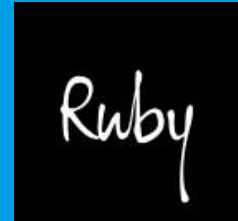


The Ruby Hotel, Arran Street, Dublin 7



PROJECT

Tech Refrigeration and Air Conditioning successfully completed the commissioning phase of an advanced HVAC and domestic hot water (DHW) system for the Ruby Hotel at Arran Street East in Dublin City Centre. This extensive project, spanned over 500 square meters and began in January 2023, reaching completion in March 2024. The installation of cutting-edge Daikin systems was aimed at ensuring optimal comfort, efficiency, and reliability throughout the hotel, aligning with the highest standards of performance and sustainability.

PRODUCT

The HVAC system installed features multiple Daikin VRV units, meticulously serving guest rooms, public areas, and back-office spaces, with over 300 indoor units. Each unit is integrated into a centralized Daikin touch manager system controller, providing precise and individualized control throughout the hotel. This system controller is seamlessly connected to the hotel's IT network, enabling real-time monitoring and management from the customer's PC. During the setup phase, the Daikin Pre-engineering Tool was utilized for pre-commissioning, facilitating the detailed input of floor layouts and control points for each room.

In addition to the VRV systems, the heating requirements are met by 4 16kW Daikin Altherma Monoblock heat pumps, which are connected to a 2000-litre buffer tank supplying 50°C water to radiators in stairwells, corridors, and other common areas. The DHW system is powered by 2 45kW Daikin Altherma heat pumps, connected to 8 high-temperature modules, delivering 70°C hot water to 2 2500-litre storage cylinders. Both heating and DHW circuits are managed by Daikin ECCK8-W cascade controllers, engineered by Siemens, and integrated into the hotel's IT network for streamlined control and operational efficiency.



CLIENT

The Ruby Hotel, situated at Arran Street East in Dublin City Centre, is renowned for its luxurious accommodations and commitment to providing exceptional guest experiences. Nestled in a vibrant area of Dublin, the hotel boasts modern amenities and stylish decor, catering to both business and leisure travellers. The hotel's strategic location offers easy access to Dublin's cultural landmarks, shopping districts, and bustling nightlife, making it a preferred choice for visitors to the city.

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