



Case Study HOSPITAL



Taunton's Musgrove Park Hospital gets Fast-track Carrier Chiller Solution Following Breakdown

Two Carrier 30RQM AquaSnap® air-to-water heat pumps, powered by quiet-running scroll compressors, are providing comfortable, stable indoor environmental conditions for patients, staff and visitors at Musgrove Park Hospital's Jubilee Building.

The high-efficiency heat pump-based chillers were supplied by Carrier to RTS Engineering following an urgent enquiry after the hospital's existing chiller failed at the height of the COVID-19 pandemic. Carrier were able to respond rapidly due to the company's policy of maintaining stocks of popular models of equipment for immediate delivery. The AquaSnap unit delivers 226kW of heating and 197kW of cooling via two independent refrigeration circuits, each with two scroll compressors, providing a high degree of resilience in the unlikely event of failure.

The units serve three wards and 112 bedrooms with en-suite facilities in the hospital's Jubilee Building, a self-contained three-storey development. The rooms are designed to give patients greater control over their environment, including temperature, lighting and privacy, to help create an empowering and healing environment.

Reliable cooling and ventilation are also vital to control temperatures and prevent overheating of clinical areas where ventilators are in use and medical staff work in personal protective equipment.

Service agreement

Carrier Commercial Service commissioned the heat pumps, with the installation supported by a Carrier BluEdge™ Digital service agreement. This connects customers' equipment to Carrier's cloud-based platform, giving access to advanced analytics and actionable insights to help optimise performance and reduce energy costs.

The hospital can access data remotely via the internet, including alarm history and monthly reports; Carrier professionals can also review and diagnose equipment health to reduce unplanned maintenance costs, and in the case of false alarms, save them the cost of a site visit.

RTS Engineering worked closely with ClearLead Consulting on the project, the latter specifying the replacement system and managing the logistics for the removal of the previous equipment and crane-lift of the Carrier units into position.

Kevin Shorthouse, Director, RTS Engineering, said: "We have worked with Carrier for many years and are familiar with the excellent design and high-quality build of their chillers and heat pumps. Carrier had stock at the factory in France and supplied the equipment at short notice, enabling us to meet the hospital's urgent need for a replacement during a particularly busy time."



EQUIPMENT

2 x Carrier 30RQM AquaSnap® air-to-water heat pumps