



## Case Study **COUNCIL OFFICES**



# Wiltshire County Council Chooses High Efficiency Carrier Chillers for Upgrade



### EQUIPMENT

2 x Carrier AquaForce 30XW-V variable speed chillers

Carrier water-cooled screw chillers, with a combined cooling capacity of more than 1.4MW, are providing high efficiency, reliable cooling at Wiltshire County Council's headquarters.

Two Carrier high performance AquaForce® 30XW-V variable speed chillers were selected for installation at the Council's headquarters in Trowbridge, Wilts. AquaForce chillers are based on proven inverter-driven twin-rotor screw compressors, which allow the cooling capacity to be precisely matched to the changing building load, significantly reducing power input. Automatically adjusting the capacity results in Eurovent-certified industry leading values of up to 8 ESEER.

### Reliability key

Ian MacDowall, director of K4 Service Ltd, who led the project, said: "The key requirement for the replacement chillers was they had to be extremely reliable and based on proven technology from a reputable manufacturer. Secondly, the equipment had to be installed by an experienced contractor with a successful track record on similar projects."

K4 Service Ltd has many years of experience installing Carrier systems on similar large-scale projects across the country.

"With the help and technical support of Russ Tyrrell, Carrier's senior sales engineer, we chose Carrier screw chillers, as they are very energy efficient and rock solid, with an unrivalled reliability record and long operational life," said Ian MacDowall.

The basement plant room housing the chillers had very restricted access, requiring a carefully planned and executed lift-and-shift operation. The previous units were disconnected and extracted using a crane through a deep well above the plant room, and the new Carrier units were lowered into position.

Due to the compact design and configuration of the Carrier chillers, it was possible to deliver the units into the tight plant room without the need to modify the structure, saving time and money on the installation. With a width of approximately 1.25 metres for units up to 1,000kW, the chillers can pass through standard-size door openings and require minimum floor space.