



Case Study SCHOOL PSDS



Major School Decarbonisation Project in London and Dudley uses Carrier Air-to-water Heat Pumps

Some 60 schools in Barnet and London's Southwark Diocese, and Dudley in the West Midlands, are being equipped with more than 180 Carrier AquaSnap™ 61AF air-to-water heat pumps to reduce carbon emissions and energy running costs.

Asset+, one of the UK's leading independent Energy Performance Contractors, selected the Carrier units for their energy efficiency and reliability. The project, which required close collaboration between project partners Asset+, Carrier, and installer OMNI Heat and Power Ltd, is being financed under the UK's Public Sector Decarbonisation Scheme (PSDS).

Richard Hall, Senior Project Manager with Asset+, said: "A key challenge has been ensuring electrical loads at schools were not exceeded. Heat pumps cut overall energy consumption and carbon emissions by displacing gas heating very efficiently, however they add an additional electrical load. Headroom in relation to school power supply is often a constraint on site, and we had to plan loads carefully to ensure limits were not exceeded."

Highly efficient

Richard Hall added: "Carrier heat pumps are highly efficient, which is a major advantage, while other low-energy and renewable technologies, such as photovoltaic panels and LED lighting, contribute to reducing power loads."

Innovative, efficient solutions such as AquaSnap heat pumps support Carrier's 2030 Environmental, Social & Governance (ESG) Goals of reducing customers' carbon footprint by more than 1 gigaton.

AquaSnap 61AF monobloc heat pumps are designed for heating and domestic hot water production in both new and refurbished buildings. They can produce water at up to 65degC, with an extended range that enables them to continue operating when ambients fall as low as minus 20degC.

Based on high-efficiency, quiet-running scroll compressors, they have a compact footprint and low profile, saving valuable space on site.

The design enables rapid installation for contractors, with streamlined pipework and electrical connections, and panels that can be removed quickly for access.

Lynn Anderson, Headteacher at Trinity St Mary's CE Primary School, Wandsworth, said: "We are delighted to be part of this decarbonisation project and playing our part in contributing to the UK's national effort to achieve net zero carbon by 2050."



EQUIPMENT

180 Carrier AquaSnap™ 61AF air-to-water heat pumps