

PROJECT PROFILE

Carrier

MAJOR DISTRICT HEATING PROJECT FOR GLASGOW BANK ESTATE



The Project

Carrier has supplied an air source heat pump (ASHP) to water source heat pump (WSHP) cascade system, providing 85°C hot water with a heating capacity of 2MW to a well-known British bank in Glasgow, making it one of the first and largest high temperature district heating projects of its kind in Scotland.

The flagship bank estate was built with sustainability and inclusivity in mind, prioritising colleague wellbeing and in line with the customer's ambition of being a net zero bank by 2050.

The 85°C hot water and 2MW heating capacity ASHP to WSHP cascade system is one of the first and largest district heating projects of its kind in Scotland.

The Solution

The cascade heating system is based on five Carrier AquaSnap® 30RQP-520R air source heat pumps on R-32 refrigerant, which preheat the evaporator circuit of four Carrier AquaForce® 61XWHZE-05 high temperature water source heat pumps operating on R-1234ze refrigerant – both Class A2L low global warming potential (GWP) gas.

The Carrier AquaSnap® 30RQP-520R air source heat pumps offer a cost-effective solution for commercial applications where building owners require reduced installation costs, optimal performance and maximum quality. The ASHPs are equipped with Greenspeed® variable-speed pumps with hydraulic module, Greenspeed® variable-speed fans and low noise 6th generation Flying Bird™ fans to meet the customer's strict low-noise criteria.

The Carrier AquaForce® 61XWHZE-05 water source heat pumps offer a premium solution for district heating systems requiring very hot water temperature (up to 85°C) and an environmental solution with superior reliability. The WSHPs are equipped with a twin-rotor screw compressor with a high-efficiency motor and a variable capacity valve that permits exact matching of the heating capacity to the load.

Carrier worked closely with the installer and its M&E design consultant to deliver the cascade heating system under strict time constraints – manufacturing and supplying the equipment in just 14 weeks.

As a result of the successful project, Carrier's Service Team in Scotland has subsequently secured a long-term Carrier BluEdge Service Plan to maintain and service the ASHPs and WSHPs.

For more information, contact your Carrier Representative, call **01372 220220**, email uk.info@carrier.com or visit carrier.com/commercial/en/uk



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