

Air-to-water heat pump supplying heat for greenhouse



YEAR: 2022

MODEL: H-600 (AW)

APPLICATION: Air-to-water heat pump

CAPACITY (HEAT): 632 kW (5°C ambient, 30/60°C hot water)

HEAT SOURCE: Air

COP: 3.7

DEFROST METHOD: Glycol



THE CASE

Kronborg is a Danish horticulture company with a 45,000 m² greenhouse. The company wished to be able to produce heat for the greenhouse during wintertime, and this is now in place with an energy-efficient heat pump using the natural refrigerant CO₂.

THE HEAT PUMP

A standard Fenagy heat pump is built on a rack. It is placed in a machine room on the customer site and connected to the central heating system on the hot side. The heat pump rack is connected to four evaporators, which are located outside. The system is equipped with the latest Fenagy ejector technology, FenEject, and controlled by the Fenagy PLC with algorithms for capacity control, evaporator control and defrost.

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