

Mejlby District Heating installs a heat pump in the middle of a residential area



YEAR: 2022

MODEL: H-1200 (AW)

APPLICATION: Air-to-water heat pump

CAPACITY (HEAT): 1.3 MW (0°C ambient, 32/70°C hot water)

HEAT SOURCE: Air

COP: 3.34

DEFROST METHOD: Glycol



THE CASE

The district heating company in Mejlby has expanded its production facilities with an electrically driven heat pump. They wanted a heat pump for base load operation to reduce gas consumption. The existing gas boiler now serves as back-up and for peak load operation. Together with their gas driven CHP system, they can now produce cheap heat, both when the electricity price is high and low.

THE HEAT PUMP

The heat pump is installed in a Fenagy premium enclosure, delivered plug-and-play, and placed outside the existing buildings on the site. The enclosure is soundproof, ensuring that the 35 dB(A) noise requirements of the residential area, where Mejlby district heating is located, are met. Outside air evaporators are installed right next to the heat pump enclosure and run silently.

The heat pump is running almost constantly because the gas boiler alternative is more expensive to operate, but in periods with high electricity prices, the existing gas motor can be used to produce electricity, and the heat pump can be shut down. The heat pump is a standard CO₂ air-to-water heat pump, 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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