

Snellman Pietarsaari HHP-unit

A family business in Pietarsaari

Oy Snellman Ab (turnover 148 MEUR in 2008) is a Pietarsaari-based family business which has been producing high-quality meat products since 1951. Operations include acquisition, slaughter, meat cutting and processing.

Total heat pump capacity 2.6MW

In 2007 a 1.2MW Scancool HP industrial heat pump was installed at Snellmann's. After two successful years of operation Snellman decided to order another unit, this time a 1.4MW HHP high-temperature heat pump.

Key figures of the HP381 unit:

- 75°C hot water at 1.4 MW, COP 4-5
- Heat source: condensing NH3 9bar
- Variable-frequency drive screw compressors
- Programmable PLC automation
- Estimated payback time: 1 year

Cooling – a valuable source of heating energy

At Snellmann's factories the preparation and storage of meat products requires several megawatts of cooling capacity. The refrigeration system, which includes compressors, liquid receivers and condensers, removes heat from the objects of refrigeration. All this energy, including the electricity required by the compressors, normally ends up in the condensers. However, it is difficult to utilize this heat when its temperature is low (it is possible to produce 29°C water).

Condenser energy can be turned into hot water (40-80°C) by using a *Scancool industrial heat pump*. In this way the waste energy which used to go to the condensers can be used to replace expensive primary energy. This leads to considerable *savings* in energy costs and lower CO2 releases.

www.scancool.fi



Keeping You Cool

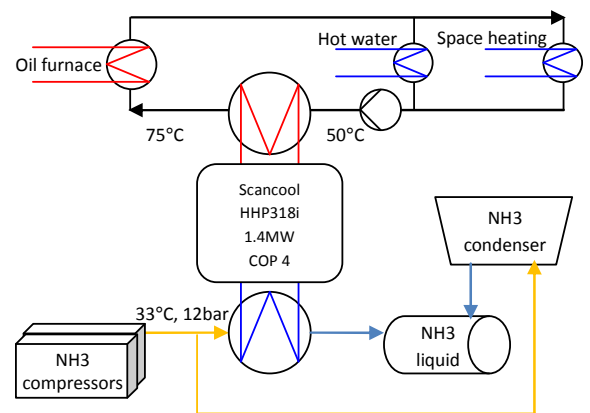
KOKKOLA
Yrittäjätie 6
67100 KOKKOLA
Tel. +358 207 281 868

PIETARSAARI
Havutie 3
68600 PIETARSAARI
Tel. +358 207 281 868

SEINÄJOKI
PL 376
60101 SEINÄJOKI
Tel. +358 207 281 868

TAMPERE
Pinninkatu 53 B
33100 TAMPERE
Tel. +358 207 281 868

TUUSULA
Majavantie 10
04320 TUUSULA
Tel. +358 207 281 868



A conceptual view of the heat pump system.

Scancool heat pumps

- a better choice

- ✓ Ready to be used with district heating
 - can produce 80°C water
 - thermal power 0.1 – 10 MW
- ✓ Innovative process solutions, client-specific detailed design and high-quality components guarantee *optimal performance*
- ✓ The module-based heat pump system can easily be *extended*
 - module breadth 1.2m, length 2.4m, height 1.6m
 - module thermal power 0.1 – 1 MW