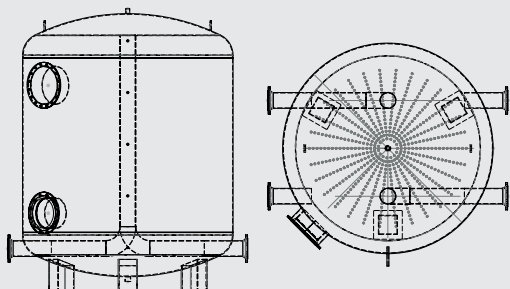




D / Aßling
Required cooling capacity 521 kW
Project year: 2024

Cooling energy application

PROJECT POSCH-WHOLESALE



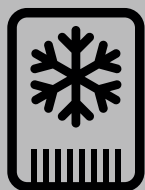
Cooling and heating system

TASK POSITION

- Refrigeration supply for a food wholesaler
- Use of natural refrigerants with low GWP values
- Normal refrigeration R290 GWP = 3, Deep-freeze R 744 GWP = 0
- Combination of the refrigeration system with the on-site photovoltaic system
- Integration of a PCM storage system to store excess PV energy

SOURCE

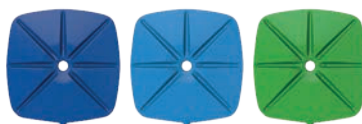
Cooling unit



- Cold brine system R290 and R744 refrigeration systems with liquefaction in cold brine system
- Cooling capacity:
Normal cooling 400 kW, R290
Deep-freezing 121 kW, R744

Storage tank

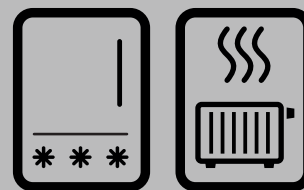
heatSel XL - 6 °C



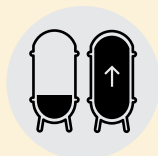
- Latent storage tank 9,250 liters
- Storage capacity 450 kWh
- Water equivalent 39,800 liters
- Spread 10 K
- Increasing the storage capacity by a factor of 4,3

heatStixx
inside

CONSUMER



- 38 cold rooms, normal cooling at +1°C to +15°C
- 8 cold rooms, deep-freezing at -20°C to -31°C
- Cold supply at night from the PCM storage
- System monitoring, temperature recording and remote maintenance on MOD BUS RTU basis



Increase
the storage capacity



CO₂ saving



Save investment

PARTNER

SECON

SECON systems are not standard products and are always adapted to the specific needs of customers and projects. Thanks to modular housing series, in-house switch cabinet construction and our own control department, we can react flexibly to requirements.

- This ensures that a genuine premium system is provided.

CONTACT

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