

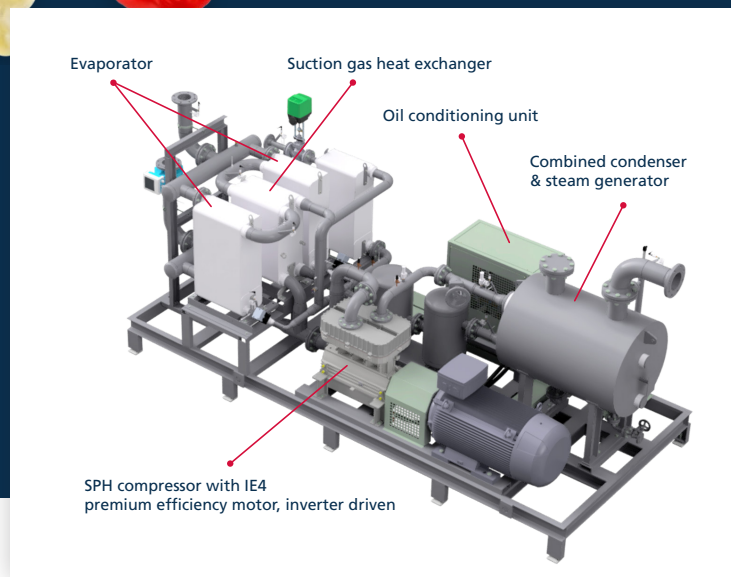
## Gelatine



### Technical data

- Installation in Q2 2023
- Source: 85/70 °C
- Steam at 2 bar
- 4.1 GWh thermal energy per year
- Savings of 550 t CO2 per year using electricity generated by CHP unit
- Performance data
  - Heating capacity: 514 kW (812 kg/h)
  - Cooling capacity: 407 kW
  - Electrical power: 118 kW
  - COP: 4,4

STEAM



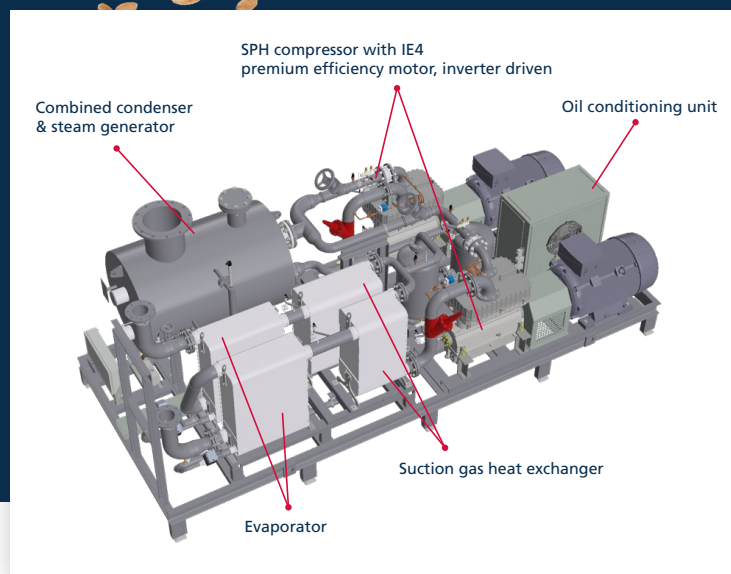
## Industrial bakery



### Technical data

- Installation in Q3/4 2023
- Source: 92/72 °C
- Steam at 1.5 bar
- Savings of up to 2100 t CO2 per year
- Performance data
  - Heating capacity: 1230 kW (1930 kg/h)
  - Cooling capacity: 1029 kW
  - Electrical power: 225 kW
  - COP: 5.5

STEAM



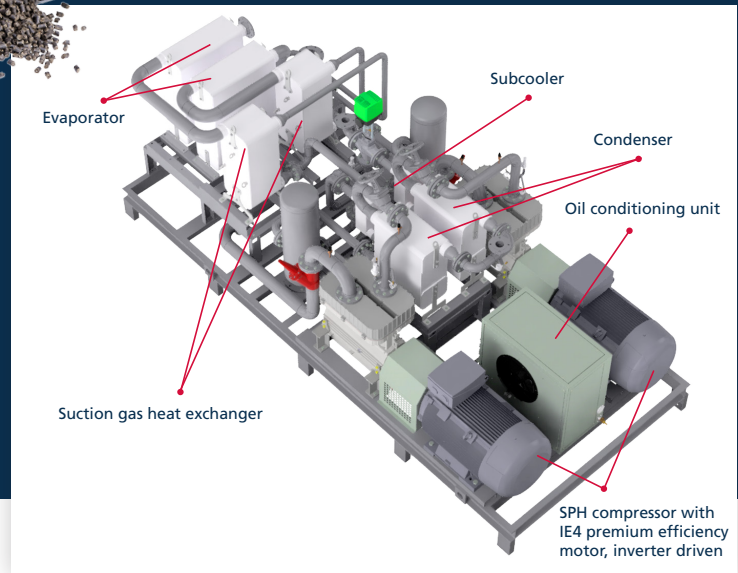
# Recycling industry

## Thermoplastic from waste



### Technical data

- Delivery in Q1/2 2023
- Delivery of 2 heat pumps
- Target: CO2-free production of thermoplastic from waste
- 1.5 MW power requirement
- ~10.8 GWh ~ 39 TJ heat per year
- Savings of 1.25 Mm<sup>3</sup> natural gas per year
- Savings of ~2400 t CO<sub>2</sub> per year through use of „green“ electricity



# WATER

### ThermBooster™

2-circuit, 2 compressors

Source: Water 75/65 °C

Sink: Hot water: 90/130 °C

For drying process

### Performance data of heat pump

Heating capacity: 1017 kW

Cooling capacity: 809 kW

Electrical consumption: 229 kW

COP: 4.4

### 4 compressors installed

3 in alternating use

1 as redundancy



SPH industrial heat pumps can be individually customized to your application.  
Please contact us! [info@spheat.de](mailto:info@spheat.de)



Hot. Efficient. Green.