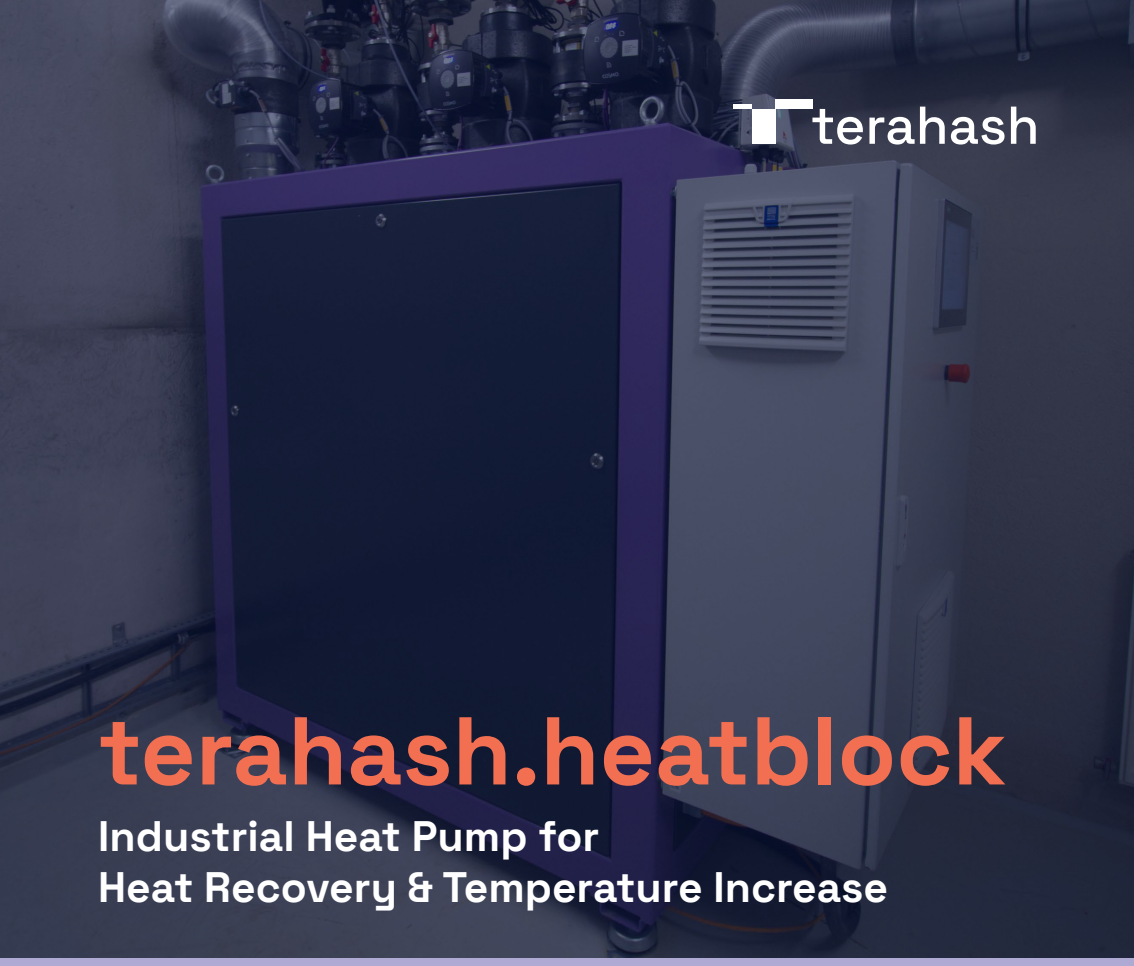

terahash

terahash.heatblock

Industrial Heat Pump for Heat Recovery & Temperature Increase

HIGHLY EFFICIENT & MULTI-STAGE

The water-to-water heat pump operates using a multi-stage heat recovery principle and can heat water up to 95 °C. This enables applications in district heating and process heat.

VERY HIGH COP

A coefficient of performance (COP) of up to 7.2 ensures low operating costs.

STAND-ALONE SCALABILITY

The system can be flexibly scaled up to 64 units with a system manager.

DUAL-USE CAPABILITY

The heat pump can be used for heating and cooling. This makes it especially economical and space-saving, as it offers significantly higher energy efficiency compared to conventional heating and cooling systems.

INTELLIGENT CONTROL FOR CONTINUOUS IMPROVEMENT

Continuous optimization is achieved through intelligent performance control based on real-time data in combination with external energy management.

terahash.heatblock

Product specifications

ELECTRICAL

Performance class:
80 / 120 / 160

Typical power consumption:
16 kW / 22 kW / 38 kW

Voltage and frequency:
400/230 3~/N/PE 50/60 HZ

PHYSICAL

System type:
Heat pump

Dimensions (L×W×H):
Depending on configuration
max. 198 cm × 82 cm × 228 cm

Net weight:
840 kg / 894 kg / 984 kg

Operating weight:
890 kg / 902 kg / 1022 kg

FLUID

Coolant:
Water / antifreeze
z. B. coracon WT6N

Refrigerant:
R1234ZE

Flow rate:
dynamic up to 10 m^3/h

Temperature level:
between 68 °C and 90 °C, max. 95 °C

FUNCTIONAL MODULES

Dual-use:
Heating & cooling, year-round, multifunctional

External energy management:
Integration into energy systems, load optimization

Cloud center:
Monitoring and remote support, remote maintenance, real-time data

OPTIONAL EQUIPMENT

Output control: Stepless, demand-based, efficient

Certified heat meter: Billing-compliant, standards-compliant, transparent, eligible for subsidies under certain conditions

Cloud-ready gateway: Remote access, networking, integration with intelligent building systems

Applications

INDUSTRIAL FACILITIES
Efficient combination of heating systems and process heat

HOTELS & RESORTS
Hot water and heating for year-round comfort

AGRICULTURE
For example: barns, greenhouses, or fish farm heating

COMMERCIAL PROPERTIES
Intelligent control of hot & cold water as well as heating systems

terahash.energy GmbH
Alfred-Nobel-Straße 9
86156 Augsburg

welcome@terahash.space
www.terahash.space/en

terahash