

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 maximum coefficient of performance (COP) of 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.

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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

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

FLUID

Coolant:

Water / antifreeze
z. B. coracon WT6N

Refrigerant:

R1234ZE

Flow rate:

dynamic up to 10 m³/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

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

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