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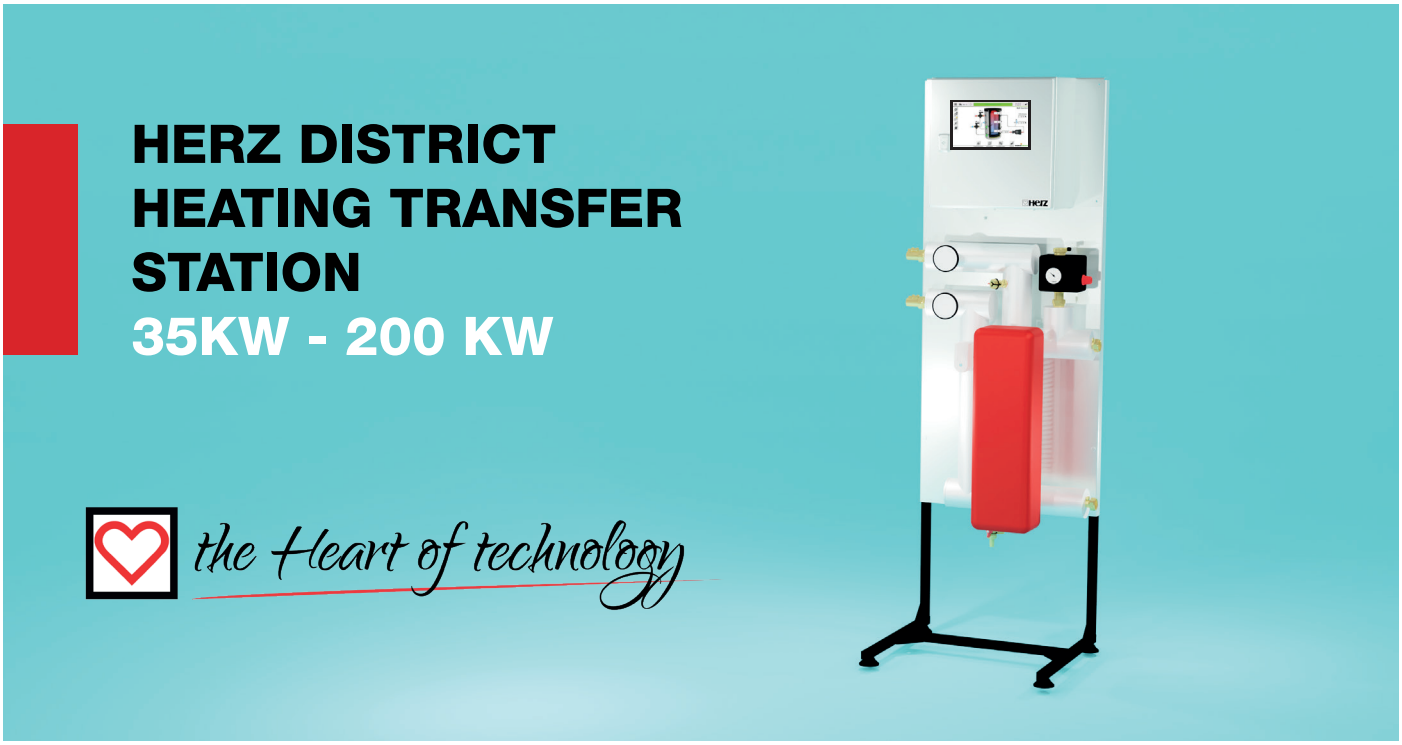
District heating transfer station - S

Compact district heating transfer station with control technology

OVERVIEW

HERZ district heating transfer stations play a central role in the efficient distribution of heat in residential and industrial buildings. As the link between the district heating network and the consumers, the district heating transfer station transfers and measures the amount of heat supplied and enables integration into a remote monitoring and control system. Its benefits are of great importance both for the environment and for consumers.

The advantages of a district heating transfer station are numerous and not just limited to reduced greenhouse gas emissions. By distributing heat evenly, HERZ district heating transfer stations contribute to the efficient use of energy. This serves to reduce energy consumption and the associated costs. The result: satisfied customers and a sustainable and efficient energy supply.



HERZ offers various models of district heating transfer stations. The HERZ district heating transfer station 35 kW - 200 kW stands out in particular with its compact design. The model is ideal for supplying single and multi-family homes, but also for commercial enterprises and is available in 4 different output groups:

- 35-55 kW
- 45-90 kW
- 75-150 kW
- 100-200 kW

The fail-safe drive on the primary side contributes to safety and reliability in the event of a power failure. In this case, it closes the pressure independent control valve and thus protects the system from overheating or overpressuring. The pre-installed safety group on the secondary side with automatic air vent, pressure gauge and 3 bar safety valve ensures proper functioning and provides overpressure relief. This prevents damage to the district heating transfer station or other system components.

BENEFITS

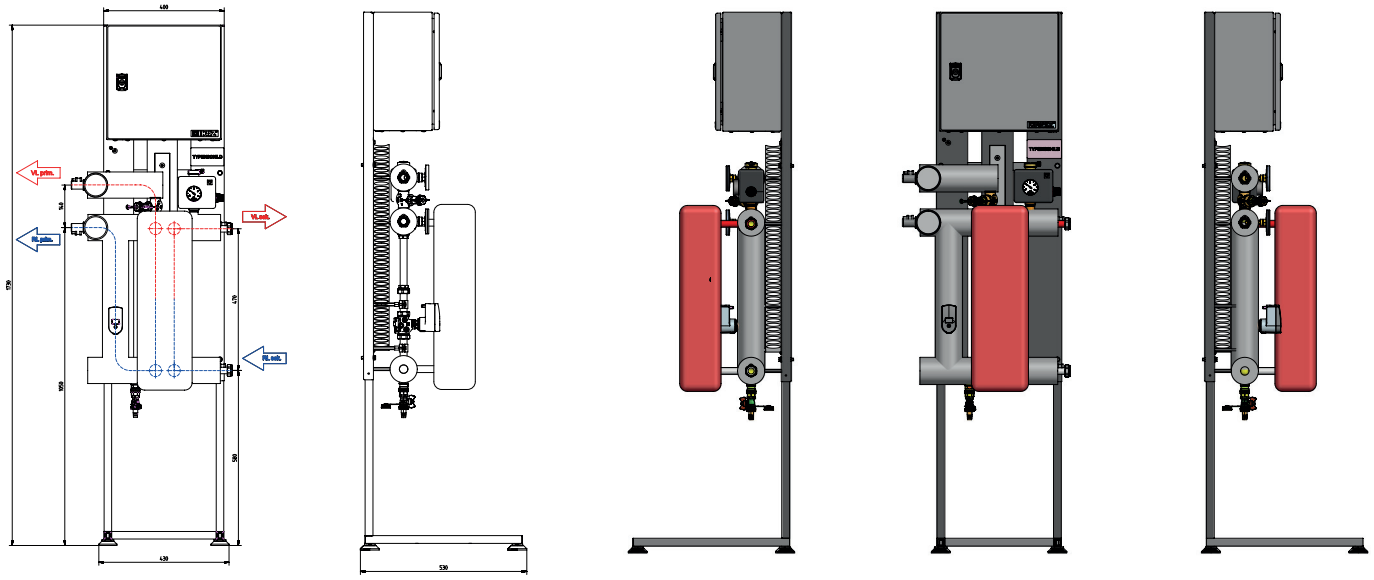
- Compact design standing
- Best insulation of heat exchanger and pipes
- Supplied hydraulically and electrically ready for connection
- Developed and produced in Europe

COMPONENTS

- Stainless steel heat exchanger insulated with precisely fitting rigid foam polyurethane insulation.
- Dirt trap in the flow pipe on the primary side, combination valve flow controller with 24 V/0-10 V geared motor in failsafe design (closes in the event of a power failure) and 190 mm fitting piece for heat meter in the return pipe as well as holders for heat meter sensors and thermometers in the flow pipe and return pipe.
- Connections on primary side weld-on hollows ¾".
- On the secondary side, a boiler safety group is pre-installed with automatic air vent, pressure gauge and safety valve 3 bar. Connections secondary side with union nut ¾" flat sealing.
- Insulation of all pipe sections with PU foam and aluminum coarse grain lamination.
- Control pre-wired with sensors and gear motor.

TECHNICAL DATA

Maximum operating temperature primary:	110 °C
Maximum operating temperature secondary:	80 °C
Maximum operating pressure primary:	16 bar
Maximum operating pressure secondary (fused):	3 bar
Connections primary:	Weld-on collars ¾"
Connections secondary:	Union nut ¾" flat sealing
Electrical connection:	230 V AC



CAPACITIES, FLOWS AND PRESSURE DROPS

Order number	Output	Primary tempera-ture	Secondary tempera-ture	Primary pressure losses*	Secondary pressure losses	Primary flow rate	Secondary flow
D **H408** 13	50 kW	80/52 °C	70/50 °C	21 kPa	17 kPa	1440 l/h	2187 l/h
D **H408** 14	80 kW	80/52 °C	70/50 °C	49 kPa	23 kPa	2554 l/h	3499 l/h
D **H408** 15	120 kW	80/52 °C	70/50 °C	55 kPa	27 kPa	3760 l/h	5250 l/h
D **H408** 16	200 kW	80/52 °C	70/50 °C	60 kPa	35 kPa	6260 l/h	8748 l/h

***incl. Pressure-independent control valves**

CONTROLLERS FOR DISTRICT HEATING TRANSFER STATION

SCHNEID CONTROL UNIT

(D **H488** 30)

Operating unit with plain text displays, primary-side valve control with return temperature optimisation, secondary-side 1x mixed 3-point heating circuit and 1x direct heating circuit for boiler charging, CM12 communication base module with MBUS module for heat meter and RS422 bus module, modular design with expansion options.

Accessories:

- Heating circuit module-HK08 STANDARD (D **H488** 31)
  Module for one mixer heating circuit 3-point
- MR12 AIN-add-on board without plug-in modules (D **H488** 32)
  8 AI 0-10V or 4AO 0-10V and 3 DO 12V

ENERGIEFREUND CONTROL UNIT

(D **H488** 50)

Control unit with graphic display and plain text displays, primary-side valve control with return temperature optimisation, secondary-side 1x mixed heating circuit 3-point and 1x direct heating circuit for boiler charging, MBUS module for heat meter, Modbus module, modular design with expansion options.

ADDITIONAL ACCESSORIES FOR DISTRICT HEATING TRANSFER STATION

Temperature sensor:

Immersion sensor	PT1000	(D **H488** 10)
Outdoor sensor	PT1000	(D **H488** 11)
Contact sensor	PT1000	(D **H488** 12)

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