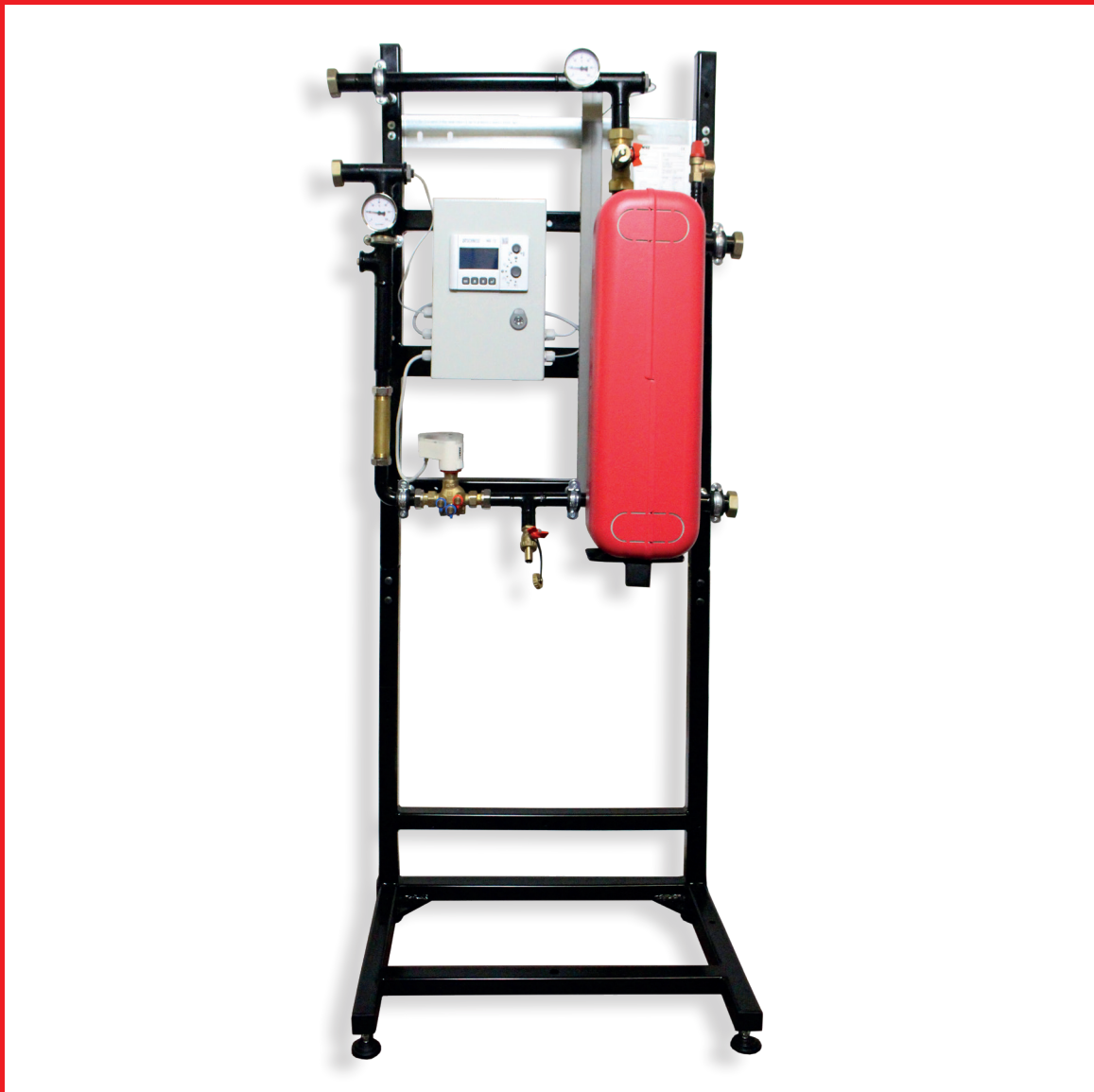


District Heating Transfer Station - compact

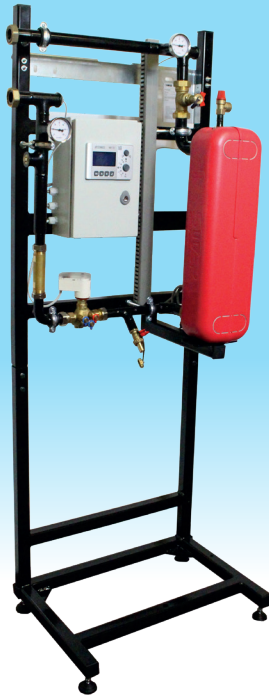
Compact district heating transfer station with control technology



☑ 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 TRANSFER HEATING STATION



HERZ offers various models of district heating transfer stations. The HERZ district heating transfer station stands out in particular due to its compact design. The model is ideally suited for supplying single- and multi-family houses, but also for commercial enterprises, and is available in 13 different output groups.

A generously dimensioned stainless steel heat exchanger and the corresponding pipework guarantee low pressure losses on both the district heating side and the heating side. The temperature difference between the primary and secondary return flow during operation according to the design tables is a maximum of 2 K.

A fail-safe actuator can be installed on the primary side, which contributes to safety and reliability in the event of a power failure. In this case, it closes the combi valve flow controller and thus protects against overheating or overpressure in the system. The pre-installed 3 bar safety valve ensures proper functioning and provides overpressure relief. This prevents damage to the district heating transfer station and 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 custom-fit hard foam polyurethane insulation.
- ☑ Strainer in the flow on the primary side, pressure independent control valve with geared motor (5 different models) and fitting for heat meter in the return as well as holders for heat meter sensors and thermometers in the flow and return.
- ☑ A 3 bar safety valve is pre-installed on the secondary side.
- ☑ Connections on the primary and secondary sides are flat-sealing with a freely rotating union nut.
- ☑ Control with sensors and geared motor pre-wired.

☑ Technical data

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

☑ Models

Order number	Output	PICV	Heat meter		Pipes	Union nut	
	at 85/52-70/50 °C	Dimension	Fitting	Union nut	Dimension	Primary	Secondary
	kW	DN	mm	"	DN	"	
D H409 01	16	15	130	1	25	1 ¼	1 ¼
D H409 02	32	20	130	1	25	1 ¼	1 ¼
D H409 03	47	20HF	190	1	25	1 ¼	1 ¼
D H409 04	63	25	190	1	32	1 ½	1 ½
D H409 05	78	25	260	1 ¼	32	1 ½	1 ½
D H409 06	93	32	260	1 ¼	40	2	2
D H409 07	108	32	260	1 ¼	40	2	2
D H409 08	122	32	260	1 ¼	40	2	2
D H409 09	135	32	260	1 ¼	50	2 ½	2
D H409 10	148	40	300	2	50	2 ½	2
D H409 11	172	40	300	2	50	2 ½	2
D H409 12	194	40	300	2	50	2 ½	2
D H409 13	213	50	300	2	50	2 ½	2

☑ Controllers for district heating transfer stations

☑ 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 H499 31)
Module for one mixer heating circuit 3-point
- MR12 AIN-add-on board without plug-in modules (D H499 32)
8 AI 0-10V or 4AO 0-10V and 3 DO 12V



☑ ENERGIEFREUND CONTROL UNIT

(D H499 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 stations

☑ Temperature sensor:

- | | | |
|------------------|--------|-------------|
| Immersion sensor | PT1000 | (D H499 10) |
| Outdoor sensor | PT1000 | (D H499 11) |
| Contact sensor | PT1000 | (D H499 12) |

Herz Armaturen Ges.m.b.H.

Richard-Strauss-Straße 22, Vienna, Austria

T: +43 1 616 26 31-0

E-Mail: office@herz.eu

www.herz.eu

