

District heating- transfer station

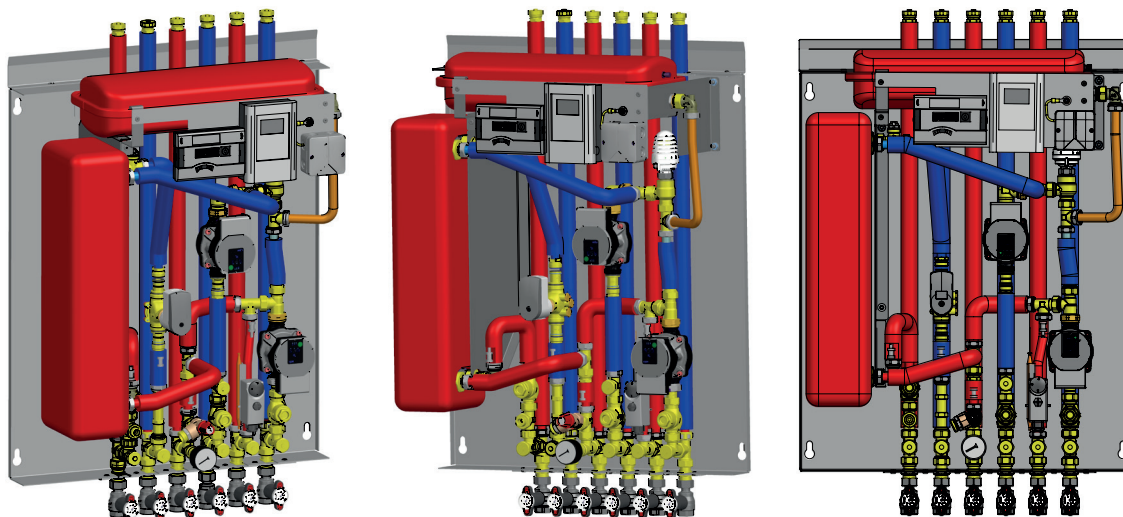
Compact and fully equipped district heating transfer station



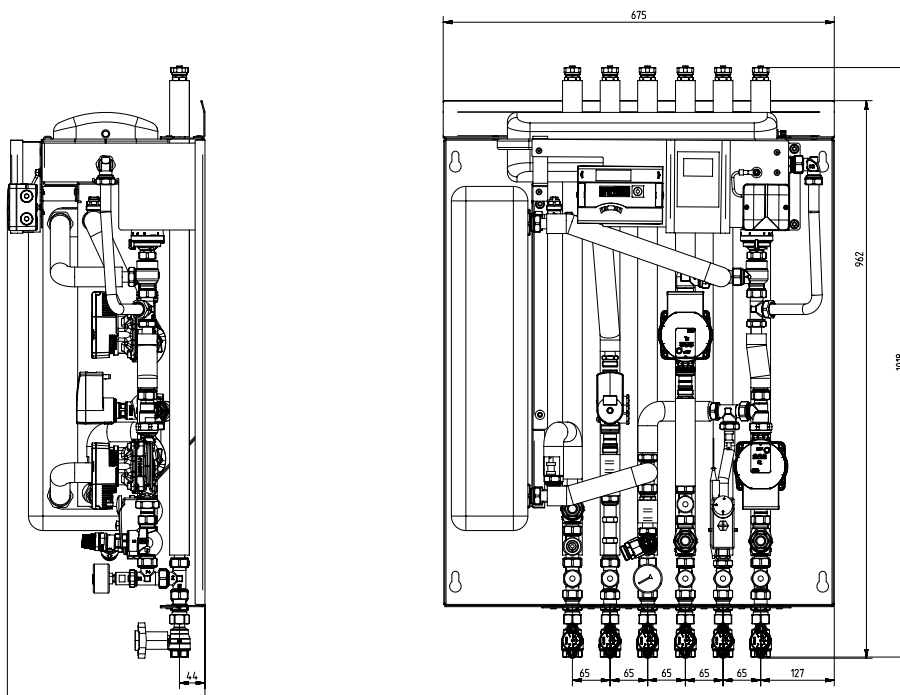
☑ Function

Compact and fully equipped district heating transfer station with all necessary components, safety equipment and control technology up to 30 kW output.

On the primary district heating side, the output is electronically controlled. The installation of a heat meter is prepared. On the secondary side is a thermal mixed heating circuit for low temperature heating. Furthermore, a hot water tank can be loaded. The control with all sensors and actuators is ready wired.



☑ Dimensions



☑ Benefits

- ☑ Compact wall-mounted design
- ☑ Mixed and unmixed heating circuits possible
- ☑ Hot water preparation possible on primary side or on secondary side
- ☑ Supplied hydraulically and electrically ready for connection
- ☑ Developed and produced in Europe

☑ Components

- ☑ Stainless steel heat exchanger insulated.
- ☑ Connections from below with DN 20 ball valves and thermometers. Connection from above possible, above connections 3/4" AG are capped off.
- ☑ On the primary side, dirt trap in the flow, combination valve flow controller with geared motor 24 V/0-10 V in failsafe design (closes in case of power failure) and fitting piece 110 mm for heat meter in the return as well as receptacles for heat meter sensors in flow and return.
- ☑ On the secondary side, a thermally mixed low-temperature heating circuit with high-efficiency pump DN 15/6 m, safety thermostat in the flow and strainer in the return.
- ☑ On the secondary side, a direct heating circuit for hot water preparation with high-efficiency pump DN 15/6 m and dirt trap in the return.
- ☑ Pressure gauge and safety group 3 bar in the hot water preparation flow.
- ☑ Expansion vessel 8 l for approx. 90 l water content on the secondary side.
- ☑ Free connections 3/4" male (capped) in all supply and return lines for installation of thermometers, pressure gauges, sensors, measuring valves, etc. as required.
- ☑ Insulation of all pipe sections.
- ☑ Control for primary side, hot water preparation and low temperature heating circuit pre-wired.

☑ Technical data

- | | |
|--|----------|
| ☑ Maximum operating temperature primary | 110 °C |
| ☑ Maximum operating temperature secondary | 70 °C |
| ☑ Maximum operating pressure primary | 16 bar |
| ☑ Maximum operating pressure secondary (fused) | 3 bar |
| ☑ Connections top | 3/4" AG |
| ☑ Bottom connections | 3/4" IG |
| ☑ Electrical connection | 230 V AC |

☑ Capacities, flows and pressure drops

Power [kW]	VL primary [°C]	RL primary [°C]	VL secondary [°C]	RL secondary [°C]	Q primary [l/h]	dp* primary [kPa]	Q secondary [l/h]	dp* secondary [kPa]
12	90	50	70	50	268	1	525	2,5
20	90	50	70	50	449	2	875	6,5
30	90	51	70	50	677	4,5	1312	13,5
12	80	50	70	50	363	1,5	525	2,5
20	80	51	70	50	617	4	875	6,5
30	80	52	70	50	946	9	1312	13,5

* Pressure losses of the heat exchanger

☑ Variants

One or two low-temperature heating circuits, one or two high-temperature heating circuits or one low-temperature and one high-temperature heating circuit each can be designed. Water heating can be provided from the primary side or from the secondary side.

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