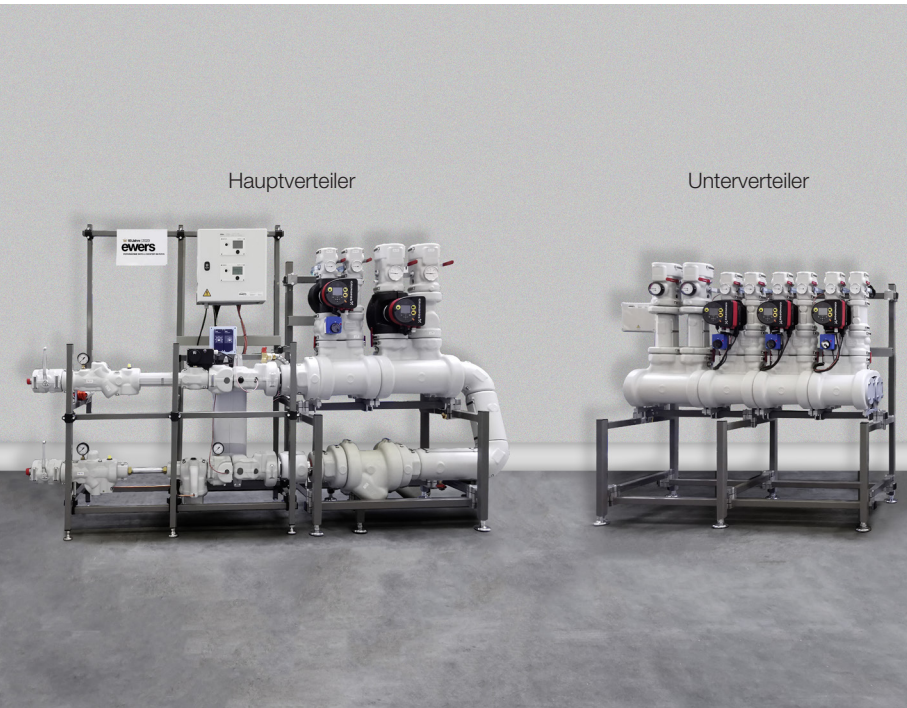


INVESTMENT PAID OFF — SAVE HOUSE ENERGY COSTS WITH MODERNIZED 150 KW EWERS DISTRICT HEATING STATION



The ewers solution: Modernized 150 kW district heating transfer station

Initial situation

In this example, the Bielefeld school district is getting a new and energy-saving ewers station to avoid unnecessary heat loss, CO₂ emissions and excessive house energy costs.

After the building in Bielefeld was renovated, the district heating station also needed modernization and was completely re-designed. In the process, the connected load was reduced to 150 kW, which is only about one-third of the previous output. This adjustment has already reduced the annual basic fee by around €5,200. In addition, lower heat consumption and thus reduced consumption costs can be expected.

The city of Bielefeld has been expanding district heating networks for many years and nowadays has one of the largest district heating networks in Germany. Due to the long existing network with many buildings and residential units, some existing district heating stations are outdated. Thus, the district heating is not used efficiently, which is why a modernization of the district heating stations is necessary.



Old district heating station

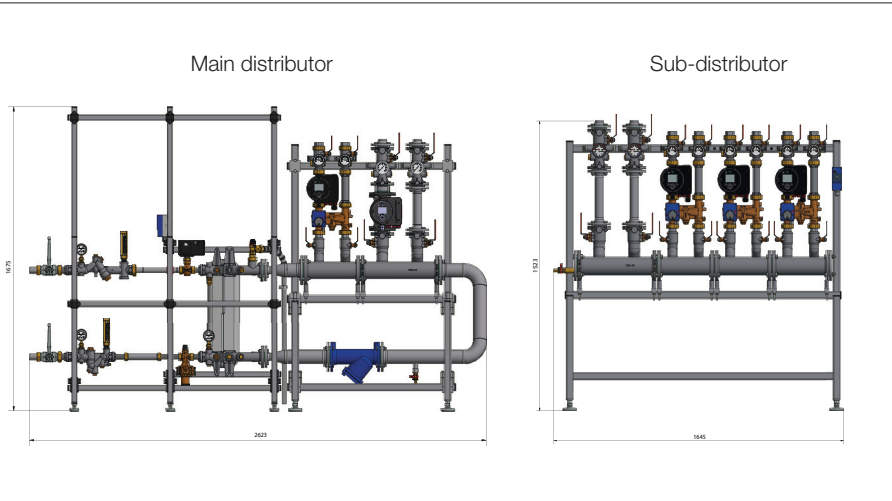
Photo: Customers



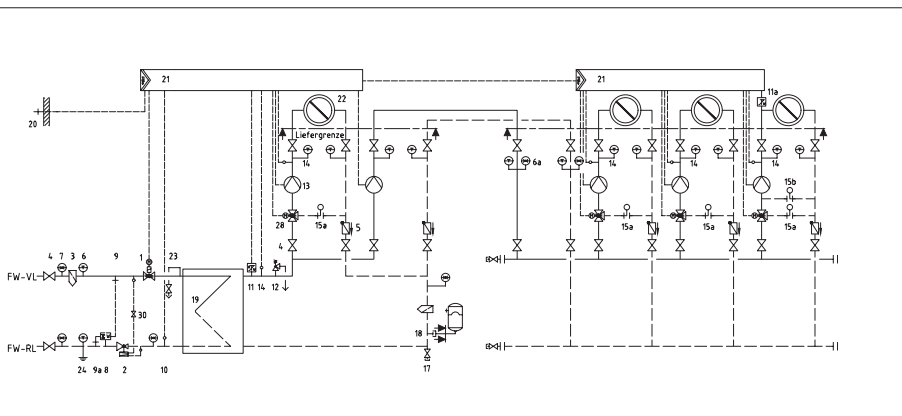
Bielefeld School Board

Photo: www.bielefeld.de

INVESTMENT PAID OFF — SAVE HOUSE ENERGY COSTS WITH MODERNIZED 150 KW EWERS DISTRICT HEATING STATION



Technical drawing of the station and distributor



Hydraulic representation of the station

The ewers solution

District heating transfer station
Main distributor with 1 heating circuit and
feeder for subdistribution

- Power: 150 kW
- Nominal width: DN25/DN32
- Pressure stage: PN16/PN6
- Temperatures: Primary 110/60 °C
Secondary 85/55 °C

Subdistribution with supply
and 3 heating circuits

- Nominal width: DN25 & DN32
- Pressure stage: PN6
- Temperatures: Old building 70/55 °C
New construction 35/28 °C

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