

BSR.005 BAUSTELLENREPORT

SELF-SUFFICIENT DISTRICT HEATING (0.96 MW) AND DISTRICT COOLING (0.83 MW) AS THE ENERGY CONCEPT OF THE FUTURE



The ZESS research center on the MARK 51°7 site





Station for district cooling transfer



Initial situation

A future-oriented energy concept has been installed on the former Opel site Mark 51°7. For the first time, an area of 70 hectares in size is supplied with heating and cooling obtained using geothermal energy.

- · Low primary energy factor below 0.5 through use of geothermal energy for heating and cooling supply.
- · Feeding of surplus energy into the local FW grid by the companies.

Various users such as RUB ZESS and also DHL are attached to the total area of the former Opel site.

The Ruhr-University Bochum (RUB) operates the research center ZESS here with a building size of about 20,000 m2. In the Research Center for the Engineering of Smarter Product-Service Systems, scientists work on issues related to Industry 4.0.

Hydraulic diagrams and Technical drawings of the two stations on page 2.

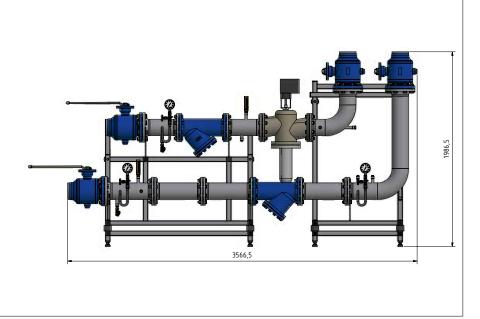
If you have any questions, please feel free to contact us at any time.

Station for district heating transfer www.ewers.de

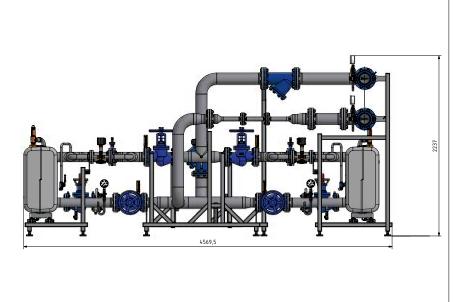




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Drawing of the district cooling compact station



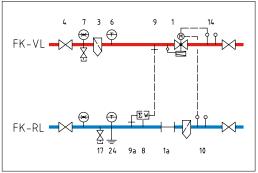
Drawing of the district heating compact station

The ewers solution

District cooling compact station

■ Power: 830 kW

Nominal width: DN150 / DN150



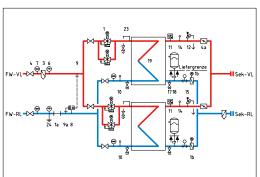
Hydraulic representation

The ewers solution

District heating compact station

■ Power: 960 kW

Nominal width: DN125 / DN125



Hydraulic representation

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