

DISTRICT HEATING AND COMBINED HEAT AND POWER IN COMBINATION — THE RUNNING TIME OF THE CHP IS SUSTAINABLY INCREASED



The DHL Mega Parcel Center in Bochum

Photo: Deutsche Post DHL

Initial situation

The new DHL mega parcel center in Bochum was built on the former Opel factory site. The parcel center has its own combined heat and power plant for supplying electricity and heat to the parcel center. However, the property not only receives electricity or heat, but also feeds the heat produced in the co-generation plant into the network of the Bochum municipal utility.

The company ewers supplied two large special district heating transfer stations for this purpose. One station with 1,500 kW supplies the 34,000 m² hall and the 4-story office building with an area of 2,700 m² with heat from the district heating network of Stadtwerke Bochum.

The second station, with 700 kW, feeds the surplus heat generated in the company's own CHP unit back into the Bochum district heating network.

If you have any questions, please do not hesitate to contact us.

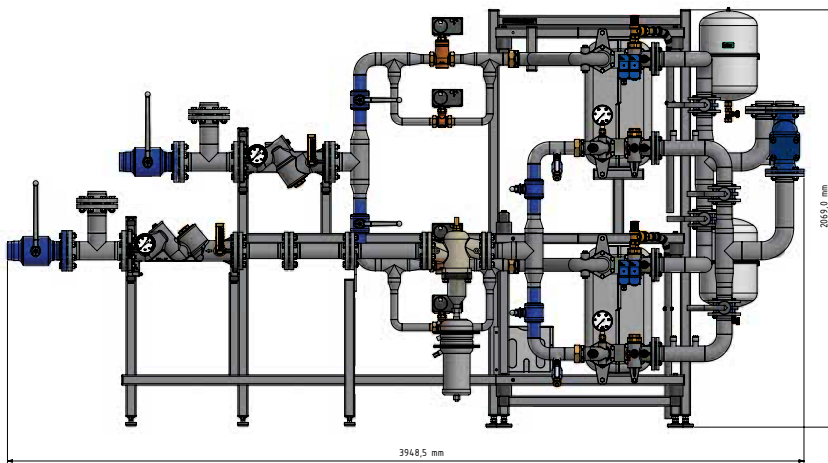


The ewers plant 1 for feeding in the heat from the Bochum district heating network

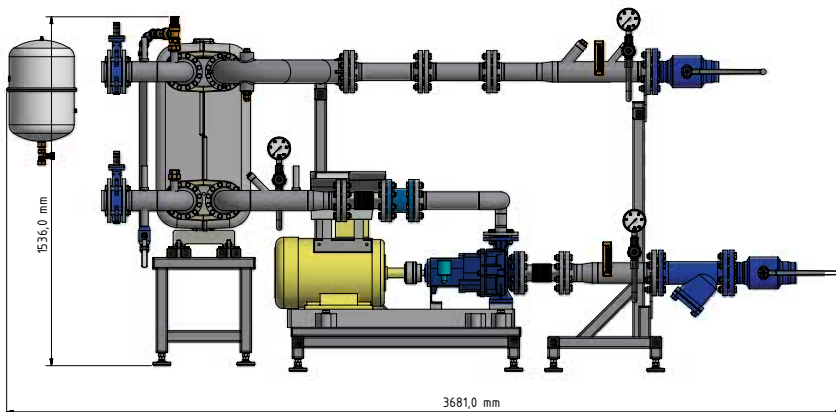


The ewers plant 2 for feeding back directly at the CHP unit

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Constructive illustration of the ewers system 1 for feed-in



Constructive representation of the ewers plant 2 for feeding heat back into the grid

The ewers solution

District heating transfer station 1
for heat supply

- Power: 1.500 kW
- Nominal width: DN80 / DN80
- Pressure stage: PN25 / PN6
- Heating circuits: Module 1 with 750 kW
Module 2 with 750 kW
- Temperatures: Primary 120/60 °C
Secondary 90/45 °C

The ewers solution

District heating transfer station 2 for feeding
back into the district heating network

- Power: 700 kW
- Nominal width: DN80 / DN80
- Pressure stage: PN25 / PN6
- Temperatures: Primary 85/60 °C
Secondary 90/65 °C



CHP for power and heat generation

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