

## 2 MEGAWATT EWERS COOLING TRANSFER STATION - FOR THE COOLING OF A GENERATOR



The ewers station for cooling a generator

### Initial situation

In Greifswald, the Max Planck Institute for Plasma Physics (IPP) operates the Wendelstein 7-X experimental facility.

This 2-megawatt station, made entirely of corrosion-resistant stainless steel grade 1.4571, is used to cool the RF generator of a facility for researching nuclear fusion technology with refrigeration from a refrigeration plant. The cooling capacity is adjusted by a speed control of the circulating pump in the cooling circuit of the generator. The pump is controlled by a Profibus signal.

The station is equipped with a screwed plate heat exchanger designed for high throughput. The unit is also equipped with electronic sensors to detect temperatures and pressure. These sensors are connected to the central control system via a bus system.

Hydraulic diagram and Technical drawing of the station on page 2.

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



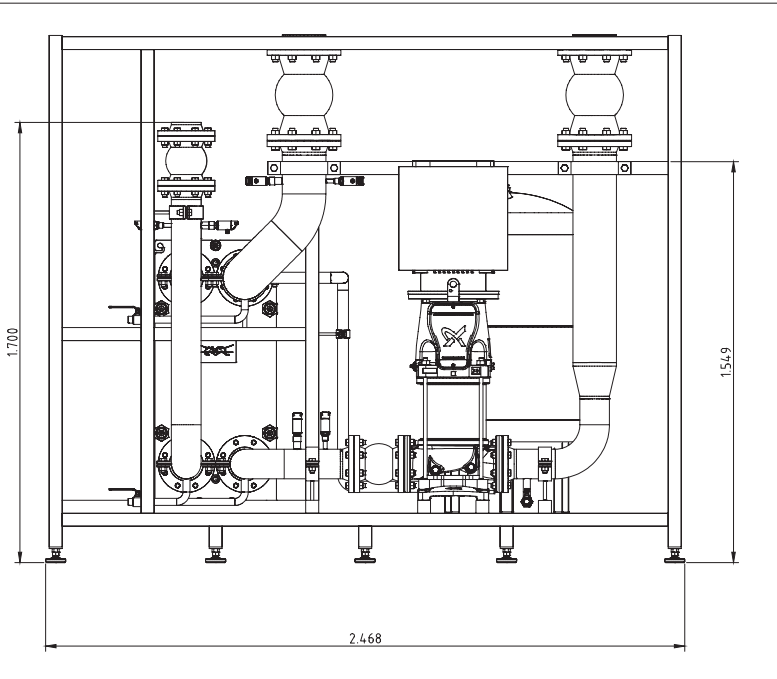
Max Planck Institute for Plasma Physics (IPP) in Greifswald

Photo: [www.mpg.de](http://www.mpg.de)



Max-Planck-Institute in Greifswald Photo: [www.mpg.de](http://www.mpg.de)

## 2 MEGAWATT EWERS COOLING TRANSFER STATION - FOR THE COOLING OF A GENERATOR

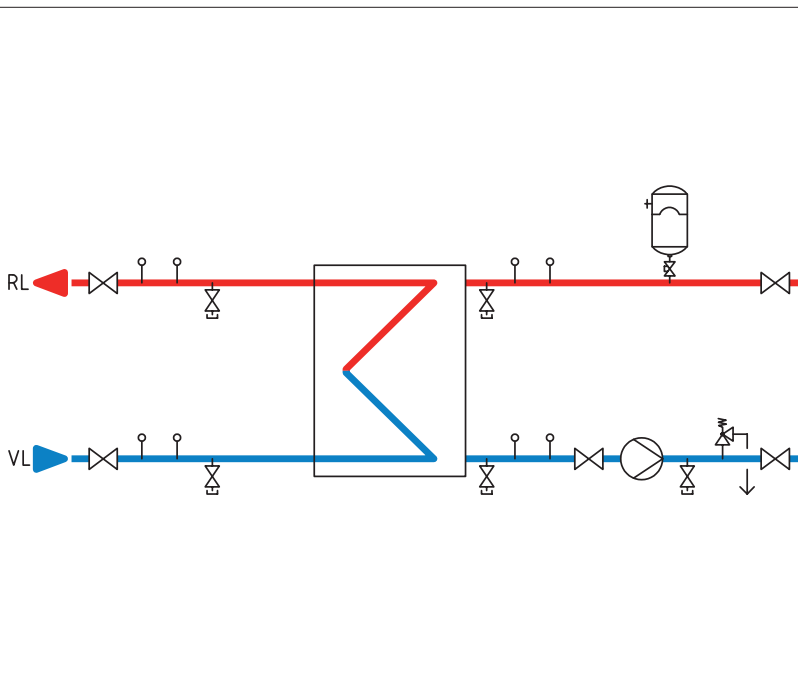


Technical drawing of the station

### The ewers solution

District cooling station for cooling

- Power: 2 MW
- Nominal width: DN100 / DN150
- Pressure stage: PN10 / PN10
- Temperatures: Primary 44 / 20 °C  
Secondary 60 / 45 °C



Hydraulic representation of the station

We reserve all rights for this technical document. The copyright notice DIN 16016 applies.  
Technical changes, errors and misprints excepted. Photos and illustrations may contain optional accessories.

© ewers Heizungstechnik GmbH | Status: 05/2022