

Cooling Water

For the operation of our water cooled rectifiers we direct the following specification for the cooling water.

General cooling water quality:

No de-mineralized water

mechanical clean = optical clear, without turbidity, no ground storage (size of mesh 0,38mm) chemical neutral
carbon hardness max. 8°DH electrical conductivity max. 600 S/cm

Single values:

pH-value = 7,8 with a carbon hardness of 8°DH

pH-value = 8,1 with a carbon hardness of 6°DH

pH-value = 8,3 with a carbon hardness of 4°DH

free carbon dioxide (CO²)

max. 8 mg/l with a carbon hardness of 8°DH

max. 4 mg/l with a carbon hardness of 6°DH

max. 3 mg/l with a carbon hardness of 4°DH

corrosive carbon dioxide (CO²): is not allowed to be traced

Ammonia (NH³): is not allowed to be traced

Nitrite (NO²): max. 0,04 mg/l

Iron: max. 0,30 mg/l

Mangan: max. 0,05 mg/l

Sulfate: max. 250 mg/l

Chloride: max. 150 mg/l

KMnO⁴-consumption: max. 15 mg/l



To avoid condensate in the rectifier the cooling water inlet should not be less than 18°C.