

# Water quality<sup>o</sup>

## Water quality requirements for adiabatic systems LPSS and HPSS

	Additional water
Softened water	Range
pH value	6.5 to 8.2
Overall hardness	< 2°d
Electrical conductivity (T= 25°C)	< 500µS/cm (max. 1,000hrs/year)
Chloride	< 50g/m <sup>3</sup>
Sulphate	< 90g/m <sup>3</sup>
Ammonium	< 0.5g/m <sup>3</sup>
Colony count CFU	Measures according to VDI2047 sheet 2
Legionella	< 100 CFU/100 ml or according to VDI 2047 sheet 2

**The 42nd BimSchV (Federal emissions protection act), regulating the safe and hygienic operation of evaporation cooling systems, is predominantly applicable.**

Copper (Cu) must not be traceable in the additional water. Iron (Fe) should not be present. It must also be observed that the chemicals used do not cause stress corrosion or even damage to the materials used in the heat exchanger. If the recommended water quality is observed and the recommended treatment products are used, no or minimal deposits, corrosion and microbiological infestation is to be expected. Information on softening systems, reverse osmoses, dosing technology and the maintenance of such systems can be obtained, for example, from Schweitzer-Chemie GmbH in 71691 Freiberg/Neckar. The hygiene requirements of VDI 2047 sheet 2 must be observed. Accordingly, the test intervals for the inspections and the water quality must be observed and communicated to the company CABERO Wärmetauscher in addition. In case of deviating water values, appropriate countermeasures must be taken immediately and wetting is prohibited in this case. In case of failure to observe the notification times, CABERO has the right to refuse warranty services. Fall out should be introduced into the rainwater drains or into the sewage. (Version: 09/2017)