

## Desalination

Exchange of ions.

Hardness-causing ions like  $\text{Ca}^{++}$ ,  $\text{CO}_3^{--}$  and other dissolved ions are bound to the resin and exchanged with  $\text{OH}^-$  and  $\text{H}_3\text{O}^+$  ions. Water hardness and electrical conductivity decrease.

Tap water is processed in three steps:

1. Coarse filtration over the cross-section of the pre-filter ensures a laminar flow of water through the entire ion exchange resin
2. Softening
3. The fine particle filter holds back any resin particles or tap water particles from entering the chamber.



## Desalination

The right conductivity range from 1 to max. 20  $\mu\text{S}/\text{cm}$  is mandatory for all humidification systems.

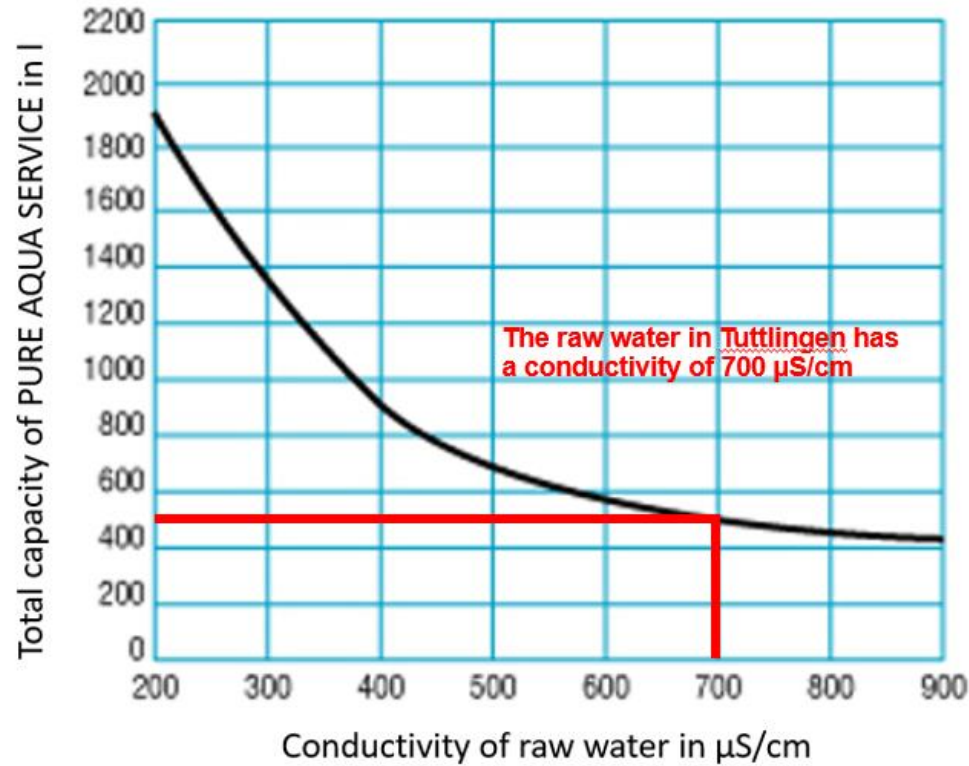
Cartridge should be changed when red lamp is lightning.

**RED LAMP:** Adequate water quality is no longer assured!

- Single-use cartridge 6011-0165

Always the right solution.

## Series KBF



# Other water management solutions

Always the right solution.

**Series KBF/KBWF**



**Series KBF P (LQC)**



**Series MKF/MKFT**



**Series KMF**



**Series KBF-S (ECO)**



**Regular maintenance  
is key**

# Technical data – to calculate cartridge replacement date

<b>Technical data</b>	<ul style="list-style-type: none"><li>• Operating pressure 2–6.9 bar</li><li>• Inlet water temperature 4–30°C</li><li>• Maximum flow rate 300 L/h</li><li>• ¾-inch connection</li><li>• Dry weight 18 kg, wet weight 24 kg</li><li>• Capacity depending on water quality (German hardness):<ul style="list-style-type: none"><li>10° DE hardness: 1,300 liters,</li><li>20° DE hardness: 650 liters,</li><li>40° DE hardness: 390 liters</li></ul></li><li>• Capacity depending on water quality (conductivity):<ul style="list-style-type: none"><li>200 µSi/cm: 1,950 liters,</li><li>400 µSi/cm: 975 liters,</li><li>800 µSi/cm: 487 liters,</li><li>1,600 µSi/cm: 243 liters</li></ul></li></ul>
<b>Additional information</b>	To achieve the specified quality of the cleaned water, the water flow rate must not exceed 5 l/min. This maximum value is maintained at all times during operation with BINDER climate chambers.
<b>Available for</b>	Suitable for all BINDER climate chambers in the following series: KBF, KBF-S, KBWF, KMF, MKF, MKFT



[Spec sheet Binder Pure Aqua Service](#)