

## RECOMMENDED WATER SPECIFICATIONS

General requirements	Recommended	Dangerous	Aggressive	Your Local Values
solid particles [mg/l]	< 10	10 – 50	> 50	
electrical conductivity [ $\mu$ S/cm]	< 600	600 – 1.200	> 1.200	
pH-value	> 7,5 – 10	5,0 – 7,5	> 5,0	
water hardness [ $^{\circ}$ dH]	< 12	12 – 20	> 20	
carbonat hardness [ $^{\circ}$ dH]	< 12	12 – 20	> 20	
chloride (Cl-) [mg/l]	< 150	150 – 500	> 500	
sulfate (SO <sub>4</sub> <sup>±2</sup> ) [mg/l]	< 150	150 – 500	> 500	
total salt capacity [mg/l]	< 1.000	1.000 – 2.000	> 2.000	
copper [mg/l]	< 0,1	0,1 – 0,5	> 0,5	
free carbonic acid [mg/l]	0	< 10	> 10	
nitrate [mg/l]	< 20	20 - 50	> 50	
manganese [mg/l]	< 0,05	0,05 – 0,1	> 0,1	
silicic acid [mg/l]	< 25	25 – 50	> 50	
potassium permanganate consumption [mg/l]	< 12	12 – 25	> 25	
ammonium [mg/l]	< 12	12 - 25	> 25	
water temperature [ $^{\circ}$ C]	<20	20 - 25	> 25	
surrounding air temperature [ $^{\circ}$ C]	-	-	-	

**Please check your local water specifications.** The water ring vacuum pumps delivered by WELKER SPINTECH offer an excellent technology. Eventually, the local water quality has to be adjusted with appropriate treatment. For this adjustment WELKER SPINTECH offers:

- **HIDROMAT water softener treatment**
- **Water cooling units for conditioning and steaming installations**
- **Reverse osmosis units**