



Evaporative cooling occurs with the evaporation of a small portion of water. The rising concentration of dissolved solids, means further airborne impurities and biological contaminants enter the recirculating water, as the evaporative cooler 'washes the air'.

Failure to control these impurities and contaminants will see them cause scaling, corrosion, sludge or biological fouling. For optimal heat transfer efficiency, maximum service life and minimized operating costs, the quality of the make-up and recirculating water must be ensured. You can find the water quality guidelines for all BAC material options in the paragraph "Water quality" of BAC's application quidelines.

Good water care is also vital for avoiding harmful bacterial proliferation, including legionella, in the recirculating water. BAC offers automatic water treatment packages or filtration systems to control corrosion, scaling, fouling and microbiological growth.

Circulated water quality guidelines

Baltiplus Protection		
pH	6.5 to 9.0	
pH during initial passivation	below 8.2	
Total hardness (as CaCO ₃)	50 to 600 mg/l	
Total alkalinity (as CaCO ₃)	500 mg/l max.	
Total dissolved solids	1500 mg/l max.	
Conductivity	2400 µS/cm	
Chlorides	250 mg/l max.	
Sulfates*	250 mg/l max.*	
Total suspendid solids	25 mg/l max.	
Chlorination (as free chlorine/halogen): continuous	1 mg/l max.	
Chlorination (as free chlorine/halogen): batch	5-15 mg/l max. for 6 hours max.	
dosing for cleaning & disinfection	25 mg/l max. for 2 hours max.	
	50 mg/l max. for 1 hour max.	



Baltibond and SST 304L		
рН	6.5 to 9.2	
pH during initial passivation	below 8.2 (for units with HDG coil only)	
Total hardness (as CaCO ₃)	50 to 750 mg/l	
Total alkalinity (as CaCO ₃)	600 mg/l max.	
Total dissolved solids	2050 mg/l max.	
Conductivity	3300 µS/cm	
Chlorides	300 mg/l max.	
Sulfates*	350 mg/l max.*	
Total suspendid solids	25 mg/l max.	
Chlorination (as free chlorine/halogen): continuous	1.5 mg/l max.	
Chlorination (as free chlorine/halogen):	5-15 mg/l max. for 6 hours max.	
batch dosing for cleaning & disinfection	25 mg/l max. for 2 hours max.	
	50 mg/l max. for 1 hour max.	

	SST 304L and SST 316L with HDG coil	SST 316L (with SST 316L coil)
рН	6.5 to 9.2	6.5 to 9.5
pH during initial passivation	below 8.2 (for units with HDG coil only)	not applicable
Total hardness (as CaCO ₃)	50 to 750 mg/l	0 to 750 mg/l
Total alkalinity (as CaCO ₃)	600 mg/l max.	600 mg/l max.
Total dissolved solids	2050 mg/l max.	2500 mg/l max.
Conductivity	3300 µS/cm	4000 µS/cm
Chlorides	300 mg/l max.	750 mg/l max.
Sulfates*	350 mg/l max.	750 mg/l max.*
Total suspendid solids	25 mg/l max.	25 mg/l max.
Chlorination (as free chlorine/ halogen): continuous	1.5 mg/l max.	2 mg/l max.
Chlorination (as free chlorine/	5-15 mg/l max. for 6 hours max.	5-15 mg/l max. for 6 hours max.
halogen): batch dosing for	25 mg/l max. for 2 hours max.	25 mg/l max. for 2 hours max.
cleaning & disinfection	50 mg/l max. for 1 hour max.	50 mg/l max. for 1 hour max.





