

Smarter Cooling Towers Start with Better Monitoring.

Ensuring efficiency, safety and optimized chemical usage.



Parameter	What It Controls	Why It Meters	Hach Solution Online	Hach Solution Portable	Hach Solution Lab	Test Kit availability
 Hardness	Scale formation	Prevents calcium carbonate scaling and heat transfer loss	EZ Hardness Analyzer 	SL1000/ SL250/ DR900 (Hardness) 	DR6000/ DR4900 	
 Alkalinity (M Alkalinity)	Buffering capacity for scale	Prevents scaling and heat transfer loss	EZ Alkalinity Analyzer 	SL1000/ SL250/ DR900 (Alkalinity) 	DR6000/ DR4900	
 Conductivity	Cycles of concentration & blowdown	Balances water efficiency and scaling /corrosion risk	SC4500 Controller + Conductivity Sensor 	SL1000/ SL250/ HQ series	HQD Benchtop 	
 pH	acidity-alkalinity (pH)	Prevent corrosion and scaling	SC4500 Controller +pH Sensor 	SL1000/ SL250/ HQ series 	HQD Benchtop	
 Turbidity	Fouling & suspended solids	Early detection of dirt, corrosion products and biofilm	SC4500 Controller + SOLITAX sc / Turbidity Probe 	2100Q 	TL2300 	
 Phosphates	Corrosion inhibitor dosing	Optimizes chemical treatment and prevents over/under dosing	EZ Phosphate Analyzer/ NP6000 	SL1000/ SL250/ DR900 (Phosphate)	DR6000/ DR4900	
 Zinc	Corrosion inhibitor dosing	Optimizes chemical treatment and prevents over/under dosing	EZ Zinc Analyzer 	SL1000/ SL250/ DR900 (Phosphate) 	DR6000/ DR4900 	
 Molybdate	Corrosion inhibitor dosing	Optimizes chemical treatment and prevents over/under dosing			DR6000/ DR4900	

Smarter Cooling Starts with Better Monitoring



Parameter	What It Controls	Why It Meters	Hach Solution Online	Hach Solution Portable	Hach Solution Lab	Test Kit availability
 Disinfection (Chlorine / Chlorine Dioxide / Ozone)	Disinfection (Chlorine / Chlorine Dioxide / Ozone)	Controls algae, slime and Legionella risk	CL17sc / CL10sc 	SL1000 / SL250 / DR900 (Free & Total Cl ₂ , ClO ₂) 	DR6000/ DR4900 	
 Ammonium	Disinfection efficiency	Prevents disinfectant loss and monochloramine formation	EZ Ammonium Analyzer / 5500sc AMC 	SL1000 / SL250 / DR900 (Ammonium)	DR6000/ DR4900	
 Chloride	Corrosion risk	Reduces pitting and stress corrosion of Stainless steel metal	EZ Chloride Analyzer	DR900 (Chloride) 	DR6000/ DR4900 	
 Iron	Corroded Metal	To monitor corrosion trend from Iron material	EZ Iron Analyzer 	SL1000 / SL250 / DR900 (Iron)	DR6000/ DR4900	
 Copper	Corroded Metal	To monitor corrosion trend from copper material	EZ Copper Analyzer	SL1000 / SL250 / DR900 (Copper) 	DR6000/ DR4900 	
 Manganese	Deposit Fouling	To monitor fouling trend from manganese	EZ Manganese Analyzer 	SL1000 / SL250 / DR900 (Manganese)	DR6000/ DR4900	
 Silica	Cycles of concentration & blowdown	Balances water efficiency and scaling/corrosion risk	EZ Silica Analyzer	DR900 (Silica)	DR6000/ DR4900 	
 Solids (Total & Dissolved)	Fouling & under-deposit solids loading	Quantifies solids that cause fouling and hidden under-deposit corrosion	TSS sc Suspended Solids Sensors 	DR900 	DR6000/ DR4900	

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