



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) SL1000	DR6000/ DR3900 DR6000	
Alkalinity (M Alkalinity)	Buffering capacity for scale	Prevents scaling and heat transfer loss	EZ Alkalinity Analyzer	SL1000/ SL250/ DR900 (Alkalinity) SL250	DR6000/ DR3900	
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 HQ Series	HQD Benchtop	
Turbidity	Fouling & suspended solids	Early detection of dirt, corrosion products and biofilm	SC4500 Controller + SOLITAX sc / Turbidity Probe	2100Q 2100Q	TL2300 TL2300	
Phosphates	Corrosion inhibitor dosing	Optimizes chemical treatment and prevents over/under dosing	EZ Phosphate Analyzer/ NP6000 NP6000	SL1000/ SL250/ DR900 (Phosphate)	DR6000/ DR3900	
Zinc	Corrosion inhibitor dosing	Optimizes chemical treatment and prevents over/under dosing	EZ Zinc Analyzer	SL1000/ SL250/ DR900 (Phosphate) DR900	DR6000/ DR3900 DR3900	
Molybdate	Corrosion inhibitor dosing	Optimizes chemical treatment and prevents over/under dosing			DR6000/ DR3900	

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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/ DR3900 	<input checked="" type="checkbox"/>
Ammonium	Disinfection efficiency	Prevents disinfectant loss and monochloramine formation	EZ Ammonium Analyzer / 5500sc AMC 	SL1000 / SL250 / DR900 (Ammonium)	DR6000/ DR3900	<input checked="" type="checkbox"/>
Chloride	Corrosion risk	Reduces pitting and stress corrosion of Stainless steel metal	EZ Chloride Analyzer	DR900 (Chloride) 	DR6000/ DR3900 	<input checked="" type="checkbox"/>
Iron	Corroded Metal	To monitor corrosion trend from Iron material	EZ Iron Analyzer 	SL1000 / SL250 / DR900 (Iron)	DR6000/ DR3900	<input checked="" type="checkbox"/>
Copper	Corroded Metal	To monitor corrosion trend from copper material	EZ Copper Analyzer	SL1000 / SL250 / DR900 (Copper) 	DR6000/ DR3900 	<input checked="" type="checkbox"/>
Manganese	Deposit Fouling	To monitor fouling trend from manganese	EZ Manganese Analyzer 	SL1000 / SL250 / DR900 (Manganese)	DR6000/ DR3900	<input checked="" type="checkbox"/>
Silica	Cycles of concentration & blowdown	Balances water efficiency and scaling/corrosion risk	EZ Silica Analyzer	DR900 (Silica)	DR6000/ DR3900 	<input checked="" type="checkbox"/>
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/ DR3900	<input checked="" type="checkbox"/>

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