



Disinfection Applications:
 Potable Water
 Non-potable Water
 Water Reuse
 Boiler Water
 Cooling Water
 Membrane Protection

Comparison:

CL17 vs. CL17sc



Feature	CL17	CL17sc	Benefit
Reliable, Accurate Colorimetric Technology using DPD Method to continuously monitor free or total chlorine in water	✓	✓	<ul style="list-style-type: none"> Standard Method 4500-CL G listed in 40CFR 141.74 provides that the analyzer can be used for regulatory reporting or as a reference for Initial Demonstration of Capability under the EPA Method 334.0.
Maintenance Made Easy to reduce touch time with simplified tubing replacement, accelerated priming, and step-by-step on-screen workflows.	✗	✓	<ul style="list-style-type: none"> Preassembled CL17sc tubing harness allows replacing all tubing in under 1 minute vs. 20-45 minutes on CL17. Reagents prime cycle on CL17sc is 2.5 minutes vs. 19-22 minutes on CL17, depending on power source (60 or 50 Hz). On-screen menus guiding the operator through routine tasks, like reagents and tubing replacement step-by-step that reduces learning time/effort.
Flow Meter to notify you when unexpected changes in flow could compromise measurement accuracy.	✗	✓	<ul style="list-style-type: none"> Flow through the CL17sc is measured every cycle, displayed on the screen, and can be reported to SCADA. It helps address inadequate sample flow going into the analyzer which affects accuracy.
Enhanced Connectivity provided by the SC controller platform, giving users ability to store, transfer, and interact with their process chlorine data even remotely.	✗	✓	<ul style="list-style-type: none"> Separate SC controller provides flexibility of connecting more than one analyzer and conveying the data to SCADA using analog and many digital communication protocols. The sc-platform features better user interface and same menu structure across Hach analyzers that makes it easier to learn the operations. SC4500 controllers provides cloud connectivity with remote access option.
Comprehensive Diagnostics that includes flow, multi-color status light, cycle light, colorimeter window, and predictive diagnostic software set.	✗	✓	<ul style="list-style-type: none"> Status light shows immediately if the instrument is operating as intended or needs attention. Measurement cycle lights and colorimeter window make it easier to see what the analyzer is doing. On-screen diagnostics and maintenance menus enhance ease of use. Prognosis™ monitors instrument vital signs to provide proactive maintenance alerts.
Installation Options available to accommodate sample flow/pressure variability	Had 2 installation options	Has 4 installation options: regular standpipe, modified standpipe option for high sample pressure, pressure regulator and panel mounted option which has CL17sc with pressure regulator and SC4500 controller pre-assembled	<ul style="list-style-type: none"> Sample pressure coming to the analyzer must be within 1.5 – 5 psi. Sample Flow rate measured at the drain should be between 60-200 mL/min Modified standpipe kit installation option should be able to eliminate pressure spikes.

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Main Specifications	CL17	CL17sc	Benefit
Measurement Range	0.03-5 mg/L as Cl ₂	0.03-10 mg/L as Cl ₂	Enhanced measurement range removes guesswork in case measuring higher chlorine concentrations is needed.
Limit of Detection (LOD)	0.03 mg/L	0.03 mg/L	The LOD defines the threshold of minimum chlorine level determination and its definitive presence above the LOD.
Limit of Quantitation (LOQ)	0.09 mg/L	0.07 mg/L	The LOQ defines the minimum level of chlorine that can be accurately measured and reported using the accuracy specifications.
Accuracy	±5 % or ±0.04 mg/L (ppm), whichever is greater	±5% or ±0.04 mg/L (0 to 5 mg/L), ±10% (5 to 10 mg/L)	Enhanced measurement range requires enhanced accuracy specifications.
Cycle Time	2.5 min fixed	2.5 min fixed	Measurement cycle time safeguarding accuracy of the analysis and providing predictable monthly reagent replacement interval.
Total Annual Cost of Ownership (TCO)	\$1599	\$1266	Main driver for lower TCO of CL17sc is the much easier maintenance and the cost of tubing kit. Tubing change for the CL17sc is less than 2 minutes, while the CL17 is longer than 20 minutes.



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