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Comparison of the Sievers 5310 C and 900 Series TOC Analyzers

With the release of the new Sievers 5310 C On-Line Analyzer, the 5310 C Lab Analyzer has added improvements. These specific features set the 5310 C On-Line and Laboratory TOC Analyzers apart from the original Sievers 900 Series. The two 5310 C instruments offer unsurpassed ease of use, analytical performance, versatility, and reliability like the 900 Series instruments, but incorporate design features specifically valuable to municipal drinking water users.

The following table shows the key performance, design, and feature improvements of the 5310 C Analyzers. The 5310 C Analyzers comply with Standard Methods 5310 C and the EPA TOC Method 415.3, similar to the 900 Series Analyzers.

| Sievers 900 Series | | Sievers 5310 C On-Line & Laboratory |
|-----------------------|--|---|
| 1. Performance | | |
| TOC Range | 0.03 ppb to 50 ppm | 4 ppb to 50 ppm |
| TOC Accuracy | + 2% or + 0.5 ppb, whichever is greater | Same as 900 Series |
| TOC Precision | < 1% RSD | 4 minutes (no Turbo mode) |
| Analysis Time | 4 minutes (4 seconds with Turbo mode) | Manual or Automated Reagent Flow Adjustment |
| Reagent Modes | Manual or Automated Reagent Flow Adjustment | for up to 2 streams* |
| 2. Features | | |
| Calibration | Single point at 1,5, 10, 25, or 50 ppm Multi-point using 1, 5, 10, 25, and 50 ppm | Single point — same as 900 Series Multi-point using 250 ppb, and 1, 5, 25, and 50 ppm |
| Grab Samples | TC standards typically stable for 12 months Integrated On-line Sampler (iOS) standard for | TC standards — same 12-month stability Integrated On-line Sampler (iOS) standard for on-line |

| | | |
|---|---|--|
| | on-line and portable versions; no alpha-numeric labeling | version; alphanumeric labeling option for each grab sample on both on-line and laboratory models |
| 3. Accessories and Supporting Products | | |
| Electronic Records & Signature | DataGuard 900 | Password protection only |
| Prefiltration | 60 micron stainless steel filter standard | 40-micron capsule filter standard; optional kit with bag and cartridge filter for raw water applications |
| Multi-stream Capability | External multi-stream device must be used; no differentiation with TOC data | External multi-stream device must be used; TOC1 and TOC2 data visible; user can enter lag time to give TOC percentage removal between influent and effluent; separate reagent flow rates available for 2 streams |
| Standards | Ready-to-use TOC standards for calibration, linearity, and system suitability | Ready-to-use TOC standards for calibration, verification, and Municipal TOC verify set (1, 5, 10 ppm with no blank) |

* *External multi-stream device required*



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