QBD1200 LABORATORY TOTAL ORGANIC CARBON ANALYZER

Applications

- Drinking Water
- Semiconductor
- Power
- Clear Samples TOC <100 ppm



The Hach QBD1200 takes the pain out of TOC analysis and lowers your total cost of ownership.

Want to Trust Your TOC Results?

Stop throwing away your first replicate. The QBD1200 has 95% less carryover. Inconsistent results? Trust 2% standard deviation at 50 mg/L and 3% at 100 μ g/L.

Want to Lower Your Total Cost?

Stop wasting money. Save 60% of your reagent costs. Say goodbye to frequent maintenance. Enjoy annual service vs. monthly.

Want to Simplify Your Analysis Process?

Tired of complicated setup? Begin testing with 90% fewer steps.

Want to Save Time?

Stop wasting all day calibrating. Only 90 minutes for a calibration routine.



Specifications*

Range 0.4 ppb - 100 ppm **Display Type** 10.4 inch Hi-Res Color Touch Screen **Precision** 3% or 3ppb, whichever is greater **Calibration Method** Automated Routine: 18 Point **Accuracy** ± 2 % Calibration Using KHP Sample to Sample < 0.2% (6 Concentrations, 3 Replicates Each) Carryover **Calibration Interval** 1 Year; Time to Calibrate 90 Minutes **Particle Size** up to 100 µm Compliance USP <643> (including Sterile Water Sample Available with Autosampler Certifications SST), JP-16 <2.59>, EP <2.2.44>, Homogenization IP, CP, KP, US EPA 415.3 and **Overload Recovery** 1 Measurement Standard Method 5310c **Inorganic Carbon** No extra Inorgainc Carbon Removal **Power Requirements** 100/240 VAC Handling Module needed (Voltage) **Oxidation Method** UV lamp + Hot Persulfate Power Requirements (Hz) 47 - 63 Hz CO_2 free Air, O_2 , or N_2 **Carrier Gas Options Dimensions (H x W x D)** 410 mm x 320 mm x 507 mm

Principle of Operation

TIC

Acid is added to lower the pH so that inorganic carbon is sparged off as CO₂. This is measured to ensure Total Inorganic Carbon (TIC) is not carried over into the TOC.

Oxidation

Data Export

Convert TOC into CO_2 gas. In presence of UV light and powerful oxidizer (NH_4) $_2S_2O_8$, organic carbon species are converted into CO_2 gas by oxidation. Carrier gas is blown through the reaction chamber to push all CO_2 gas through NDIR detector.

TOC

CO₂ gas is detected as it goes through NDIR detector and TOC is quantified by integrating the area under the curve. TOC is then calculated, based on instrument calibration, by converting the CO₂ gas signal (area under the curve) into TOC.

Ordering Information

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9450000 QBD1200 Laboratory Total Organic Carbon

PDF, CSV

Analyzer

QBD1200 Autosampler

9467100 QBD1200 Autosampler

QBD1200 Reagent/Standards

9459400 One Reagent Stock Solution

9459500 5 ppm C KHP Calibration Solution

9459600 SDBS Validation Kit

9459700 USP System Suitability Kit (500 ppb)

9459800 USP System Suitability Kit (8 ppm)

9459900 Specificity Test Kit9460000 Robustness Test Kit9460100 Validation Protocol Kit

QBD1200 Instrument and Autosampler Replacement Items

9449900 Syringe Replacement Kit 9449300 Ozone Destructor Replacement Kit 9459100 Replacement Tubing Kit 9449200 UV Reactor Replacement Kit 9464200 Reagent Bottle/Custom Cap Kit 9454300 QBD1200 Power Supply 9467200 **Autosampler Tray** 9454400 Extender Tool for QBD1200 Autosampler Tube Connection 9467300 QBD1200 Autosampler Power Supply 9467400 QBD1200 Autosampler Needle Sleeve SP6790 Autosampler Septum Piercing Needle

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In the interest of improving and updating its equipment, Hach Company reserves the right to alter specifications to equipment at any time



*Subject to change without notice.