

QbD1200 LABORATORY TOTAL ORGANIC CARBON ANALYZER

Applications

- Pharmaceutical
- Drinking Water
- Semiconductor
- Power



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 ppm and 3% at 100 ppb.

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	Calibration Method	Automated Routine: 18 Point Calibration Using KHP (6 Concentrations, 3 Replicates Each)
Precision	3% or 3ppb, whichever is greater	Calibration Interval	1 Year; Time to Calibrate 90 Minutes
Accuracy	± 2 %	Compliance	USP <643> (including Sterile Water SST), JP-16 <2.59>, EP <2.2.44>, IP, CP, KP, US EPA 5310c and 415.3
Sample to Sample Carryover	<0.2%	Power Requirements (Voltage)	100/240 V AC
Overload Recovery	1 Measurement	Power Requirements (Hz)	47 - 63 Hz
Inorganic Carbon Handling	No extra Inorganic Carbon Removal Module needed	Dimensions Metric (H x W X D)	410 mm x 320 mm x 507 mm
Oxidation Method	UV Lamp + Persulfate		
Carrier Gas Options	CO ₂ free Air, O ₂ , or N ₂		
Data Export	PDF, CSV		
Display Type	10.4 inch Hi-Res Color Touch Screen		

**Subject to change without notice.*

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

Convert TOC into CO₂ gas. In presence of UV light and powerful oxidizer (NH₄)₂S₂O₈, organic carbon species are converted into CO₂ gas by oxidation. Carrier gas is blown through the reaction chamber to push all CO₂ 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

QbD1200 Instrument

9450000 QbD1200 Laboratory Total Organic Carbon 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 Kit
9460000 Robustness Test Kit
9460100 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



Thank you for reading this data sheet.

For pricing or for further information, please contact us at our UK Office, using the details below.



UK Office

Keison Products,

P.O. Box 2124, Chelmsford, Essex, CM1 3UP, England.

Tel: +44 (0)330 088 0560

Fax: +44 (0)1245 808399

Email: sales@keison.co.uk

Please note - Product designs and specifications are subject to change without notice. The user is responsible for determining the suitability of this product.