

HACH BIOTECTOR B3500c TOC ANALYZER



Applications

- Industrial Condensate
- Cooling Water
- Boiler Water
- Drinking Water

Maximum uptime and reliability for TOC analysis in condensate applications

Using patented technology, only requiring scheduled maintenance every 6 months, allowing for dual stream monitoring, and having one of the most compact analyzer footprints, the Hach BioTector B3500c delivers 99.8% uptime in condensate applications with the lowest operating cost.

Worry-free TOC

With a patented Two Stage, Advanced Oxidation Technology system, the B3500c provides you with maximum reliability and uptime, without sacrificing accuracy.

Lowest Cost of Ownership

Requiring you to replenish reagents, replace the pump tube, and calibrate only twice a year, the Hach BioTector B3500c has the lowest operating cost available.

Small Footprint = Critical Wall Space Savings

With one of the most compact analyzer footprints, this analyzer frees up wall space for other needed instruments.

Reagent Costs that Don't Kill the Bottom Line

By only needing to replenish reagents every six months, you will see direct bottom line savings in comparison to other systems requiring bi-weekly or monthly replacements.

One Instrument for Multiple Streams

Providing the ability to monitor two streams at the same time, eliminates the double-cost of needing two separate analyzers.

Specifications*

Ambient Temperature	0 to 45 °C (41 to 113 °F)
Permissible Chloride Range	up to 30 %
Communication	Modbus®, PROFIBUS, Ethernet <i>Modbus is a registered trademark of Gould Inc.</i>
Cycle Time	Typically 5 minutes 30 seconds
Parameter	Measures TOC, TIC, TC, and VOC
Data Storage	Previous 9999 reaction data Previous 99 fault events
Dimensions (H x W x D)	29.5 in x 19.7 in x 12.6 in (750 mm x 500 mm x 320 mm)
Display	High contrast 40 character x 16 line backlit LCD with LED backlight
EExp / Hazardous Location	Certification options are available to North American Standards (Class 1, Div 2)
Exceedance Tracking	Full exceedance tracking up to 100 mgC/L
Humidity	5 to 85%, non-condensing
Languages	English, Spanish, French Others available upon request
Measurement Method	Infrared Measurement of CO ₂ after Oxidation

Range	0 to 25 mgC/L with Exceedance tracking up to 100 mgC/L
Multi-Stream	up to 2 process streams and grab sample
Oxidation Method	Patented Two-Stage Advanced Oxidation Process (TSAO) using Hydroxyl Radicals
Particle Size	Up to 100 µm
Power Requirements (Voltage)	115/220 VAC
Range Selection	Automatic or Manual Range Selection
Repeatability	±3% of reading or ±.03 mg/L (30 ppb) whichever is greater
Sample Inlet Temperature	0 to 60 °C (36 to 140°F)
Service Interval	6 month service intervals
User Interface Description	Microcontroller with membrane keyboard
Weight	46 kg (101.41 lbs.)

*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

BioTector's patented oxidation method (TSAO) achieves total and complete oxidation of the sample, including organic carbon to CO₂. TSAO utilizes hydroxyl radicals generated within the analyzer by combining oxygen, which passes through the ozone generator, with sodium hydroxide.

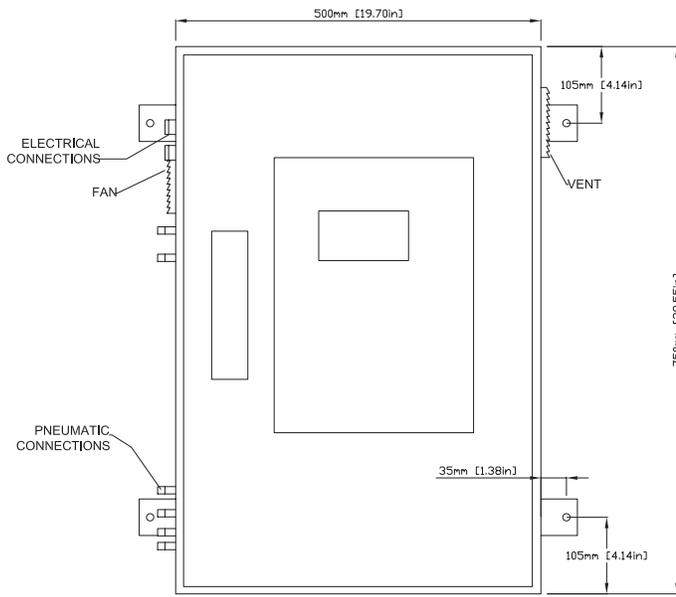
TOC

To remove CO₂ from the oxidized sample, the pH of the sample is lowered again. The CO₂ is sparged and measured by the specially developed NDIR CO₂ analyzer. The result is displayed as Total Organic Carbon (TOC).

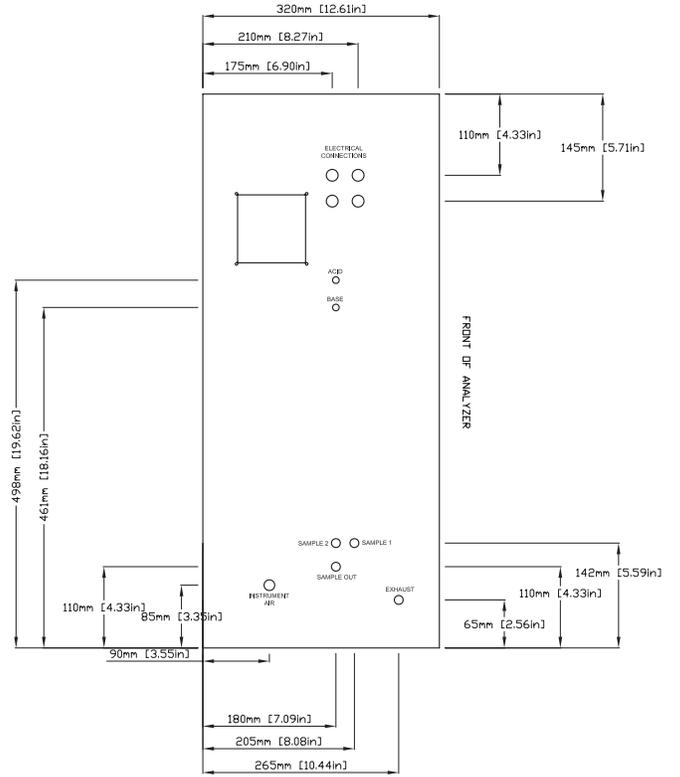


Dimensions

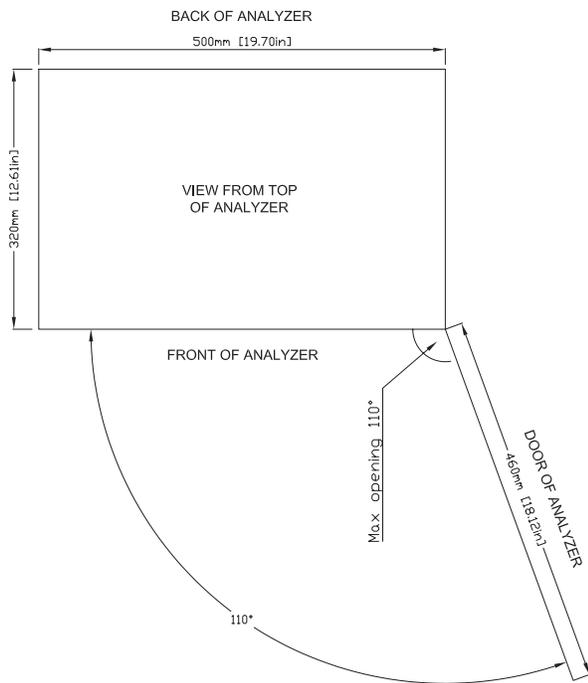
Front View



Side View



Top View



Panel Detail



Ordering Information

Instruments

B5ACAA052AAC2	Hach BioTector B3500c TOC analyzer, 0-25ppm, 1 stream + manual
B5AFAA052AAC2	Hach BioTector B3500c TOC analyzer, 0-25ppm with 100ppm range extension, 1 stream + manual
B5ACAA052DAC2	Hach BioTector B3500c TOC analyzer, 0-25ppm, 1 stream + manual + Class 1 Div 2
B5CCAA052DAC2	Hach BioTector B3500c TOC analyzer, 0-25ppm, 1 stream + manual + Class 1 Div 2+ VOC

Accessories

10-SMC-001	Hach BioTector B3500c Air supply filter pack
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Service Options

WRTUPGBIOTECTOR	Biotector TOC Analyzer WarrantyPlus™ Instrument Protection and Service
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For additional configuration options of the Hach BioTector B3500c TOC Analyzer, please contact your local Regional Sales Manager, or call our Service Support Team at 800-227-4224.

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Hach Company reserves the right to alter specifications to equipment at any time.



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