# BioTector B3500ul Online TOC Analyzer

# Precise, low-level TOC measurement that you can trust

Changes in water quality for ultra pure applications are disruptive to plant operations. Accurate, on-line analysis is important to protect critical equipment that depends on ultra pure water resources. Leading manufacturers know that it is critical to analyse for contaminates precisely at ppb levels to maintain water quality. Reliability and effective oxidation of large samples ensures that manufacturers can trust the results reported by the BioTector B3500ul analyzer. With a full picture of organic contaminants in critical water applications manufacturers make water treatment decisions more efficiently.

The Hach<sup>®</sup> BioTector B3500ul provides reliable and accurate TOC analysis at ppb levels for ultrapure water applications. The patented two stage advanced oxidation technology behind the BioTector thoroughly, and reliably oxidizes samples for valuable real-time water analysis.

### Maximum uptime for your process

With uptime certified at 99.86% and and two short, scheduled maintenance events per year, you will not be missing critical process information when you need it the most.

## **Instant and long term savings**

Reduce the costs related to water re-treatment, and save on operational expenses. On-line TOC analysis enables maximum water reuse and keeps critical water resources at their best to maximize the lifetime of high-value capital equipment.

#### **Technical Data\***

TOC, TIC, TC, VOC, after correlation COD, BOD
Infrared measurement of CO <sub>2</sub> after oxidation
Patented Two-Stage Advanced Oxidation Process (TSAO) using Hydroxyl Radicals
0 - 5000 μg/L C
$\pm 2$ % of reading or $\pm 15\mu g/L$ C, whichever is greater
80 μg/L
For best performance ultra-pure water (18.2 $M\Omega^*$ cm, < 5 µg/L TOC) is needed for calibration.
TIC Interference: At 500 µg/L TIC (as bicarbonate), 2% carryover into TOC may occur.
рН 1-12
TOC from 5 minutes, depending on application
Modbus RTU, Modbus TCP/IP & Profibus (when the Profibus option is selected, the digital output signals are sent through the Profibus converter with its specific communication protocol) Except for Zone 1 certification then Modbus RTU, Modbus TCP/IP & Modbus TCP/IP Redundant is
available
Certification options are available to European Standards, (ATEX Zone 1, Zone 2), North American Standards (Class I Division 2) and IECEx Zone 1
2 - 60 °C (36 - 140 °F)
Up to 100 μm
115 - 230 VAC; 50/60 Hz
6 months service intervals
1000 x 500 x 320 mm (39.4 x 19.7 x 12.6 in.)
50 kg (110.2 lb)

#### \*Subject to change without notice.

#### **Order Information\***

Instruments		
B5EBAA152EAC2	Hach BioTector B3500ul TOC analyzer, 0 - 5000 µg/L C, 1 stream, grab sample, 115 V AC	
B5EBAA152EAF2	Hach BioTector B3500ul TOC analyzer, 0 - 5000 µg/L C, 2 streams, grab sample, 115 V AC	
There are additional options available. Please contact Hach for more details.		
Accessories		
19-COM-160	BioTector Compressor 115 V / 60 Hz	
19-COM-250	BioTector Compressor 230 V / 50 Hz	

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10-SMC-001	Air supply filter pack
19-KIT-123	Six months spare part kit for BioTector B3500
19-BAS-031	BioTector sample overflow chamber

#### Reagents

2985562	BioTector base reagent 1.2 N sodium hydroxide
25255061	BioTector acid reagent 1.8 N sulfuric acid containing 80 mg/L Mr

Part numbers may vary by country.





