

# Advance to More Accurate, Reliable Organics Measurement

## A New Era of TOC Analysis

Since 1995, BioTector products have proven to be the most advanced in their class, achieving trusted results from the simplest to the most demanding applications.

With reliable, continuous environmental monitoring and real-time process control, the latest generation of BioTector analysers allow plants to optimise processes by decreasing chemical dosing, minimising waste, reducing manual sample processes and costs, and lowering overall plant operating costs. The BioTector analyser has evolved to meeting total organic carbon (TOC) measurement regulation and certification standards.

Now is the time to upgrade from a legacy analyser to the latest BioTector and begin a new chapter in your facility's TOC analysis.

## Why BioTector?

The Hach® BioTector series offers various improvements over legacy analysers:

- **Intelligent design** – oversized sample tubing better handles even the most challenging applications, including limited amounts of fats, oil, and grease (FOG).
- **Advanced functionality** – direct reporting of % removal (B3500dw), and reporting of TOC correlated parameters such as BOD and COD
- **Powerful sample breakdown** – innovative two-stage self cleaning oxidation technology (TSAO) is 40 % more effective at oxidising samples, and insensitive to wide pH swings and 5x higher chloride levels than UV persulfate oxidation.
- **Low cost of ownership** – designed for continuous operation, the BioTector requires part replacement only twice a year in many applications.
- **Superior reliability** – typically 99.86% uptime enables plants to leverage results for continuous process control.
- **Worldwide service and support** through Hach with installations at leading manufacturers around the world



## The Right Instrument for Your Facility

Regardless of your environment and application, there is a BioTector analyser for you:

Category of Water	Organic Concentrations	Analyser	Sample Descriptions	Applications Include
<b>Clean with Low TOC</b>	LOW 0 - 5 ppm	B3500ul	Clean samples: free from fats, oils, greases Particulates <100 microns Stable pH	Wastewater from reverse osmosis Recycling Critical chemical applications Ultrapure water Turbine/power cooling water
<b>Dirty with Low TOC</b>	LOW 0 - 25 ppm 0 - 100 ppm	B3500c B3500dw	Samples can contain limited amounts of: fats, oils, greases, and soft particulates	Cooling water Storm/river/sea water Reverse osmosis/condensate water Drinking water Boiler water
<b>Dirty or Clean with High TOC</b>	HIGH 0 - 250 ppm 0 - 1,000 ppm	B3500e	Samples can contain limited amounts of: surfactants, fats, oils, greases, sludge, and soft particulates	Carbon bed absorber process Discharge control Ground/raw/storm/river water Wastewater effluent Cooling water

## Service – Helping You Be Right

When one company manufactures and services the same instrumentation, your facility gains confidence by reducing risk and setting yourself up for success. With various service packages to choose from, Hach Service offers the peace of mind that comes with reduced equipment downtime; ensured accuracy due to regular maintenance, and priority response for faster instrument repair.

- Regular factory-recommended preventative maintenance visits
- Verification of instrument performance and operational reliability improvements
- Inspection protocol for quality management
- Certificates according to ISO standards
- Hotline support for all technical questions
- Troubleshooting and repair
- Priority response time services
- Parts inclusion (wear and/or spares) packages

Adding Hach Service to your BioTector instrumentation helps your facility meet compliance requirements regardless of your resources.

