

High Temperature TOC

An optional High Temperature Module is available for difficult to oxidize or high TOC concentration samples, or in industrial salts less than 1%.

Total Nitrogen & TOC

An optional Total Nitrogen module is also available to boost the analytical capabilities when required. The Total Nitrogen is determined by using a Colorimeter with samples oxidized in the UV Reactor.

With a large variety of water samples, the system fully meets the challenges of today's laboratories, like high productivity and accuracy.

Specifications:

Measuring range:	User Configurable from 50ppb — 50,000ppm C (Depending on Method)
Repeatability:	+/- 2% (depending on Configuration)
Drift:	Compensated, self-calibrated NDIR (+/- 2% non-accumulative)
Response time:	From 3 minutes, depending on configuration
Display/Computer:	Operator menu prompting Microsoft Windows.Net Operating System
Power supply:	110/220 VAC 10 Amp service recommended
Dimensions:	58.42 x 56.515 x 62.230 cm (HxWxD)
Weight:	60Kg / 131lbs
Features:	DUAL INFRARED DETECTORS for rangeability 103 Station Auto-Sampler
Options:	- Total Nitrogen & Total Phosphorous analysis - Carrier gas purifier, Oxygen generator - High Temperature Module

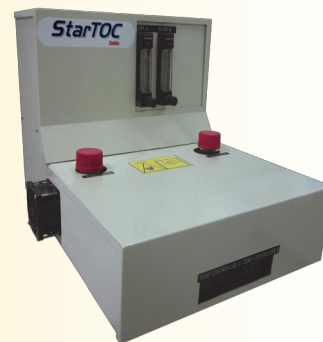


HT Module

Other Lab Solutions



SEMI-Auto Lab



SOLIDS Lab

Simplifying LAB-TOC

Sales & Support EMEA—Asia:



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Technology at work for you

FULLY AUTOMATED ENVIRONMENTAL ANALYSIS

4 IN ONE TECHNIQUES

UV/Heated Persulfate Oxidation

Sample is mixed with acid, lowering the pH to 2.0. This converts the inorganic carbon to dissolved CO₂, which is Air/O₂ stripped out of the solution. Persulfate reagent is added and the remaining organic carbon is then oxidized in the Reactor to form CO₂, which is detected by the NDIR as a direct correlation to TOC.

High Temperature Combustion Oxidation

Sample is mixed with acid, lowering the pH to 2.0. This converts the inorganic carbon to dissolved CO₂, which is Air/O₂ stripped out of the solution. The carbonate-free sample is then directed into the combustion reactor where the remaining organic carbon is then oxidized at high temperature to CO₂, which is detected by the NDIR as a direct correlation to TOC.

Ozone Promoted Oxidation

Sample is mixed with acid, lowering the pH to 2.0. This converts the inorganic carbon to dissolved CO₂, which is Air/O₂ stripped out of the solution. Reagent is added and the remaining organic carbon is oxidized by ozone / hydroxyl radicals to CO₂, which is detected by the NDIR as a direct correlation to TOC.

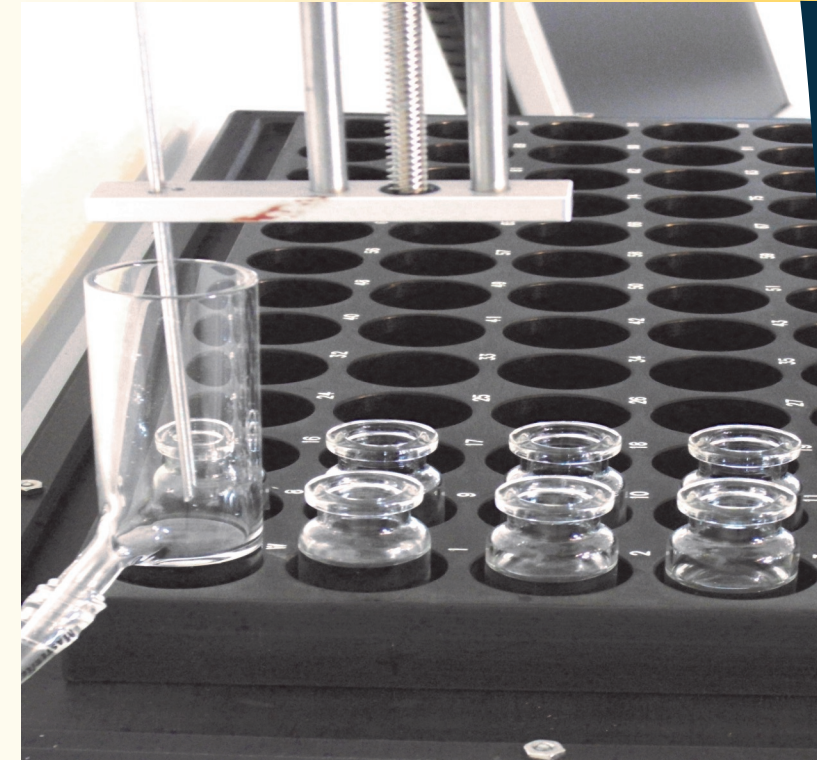
Ultra-Pure Oxidation

Sample is mixed with acid, lowering the pH to 2.0. This converts the inorganic carbon to dissolved CO₂, which is Air/O₂ stripped out of the solution. The remaining organic carbon is then oxidized in the UV reactor to CO₂, which is detected by the NDIR as a direct correlation to TOC.

UNMATCHED VERSATILITY & RELIABILITY

The Star-LAB has 4 different oxidation techniques in one single benchtop instrument, to give you the most flexibility when running TOC analysis. The best oxidation technique is mostly dictated by the matrix of the sample.

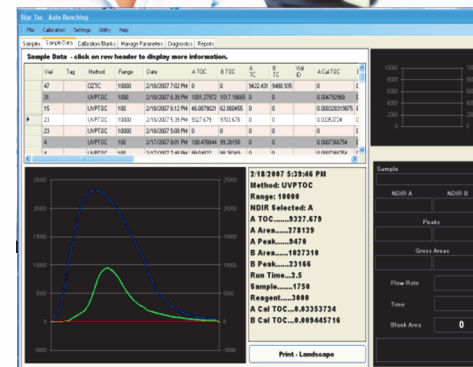
APPLICATIONS	OXIDATION TECHNIQUE			
	HIGH TEMP	UV/PERSULFATE	OZONE PROMOTED	UV ULTRA PURE
Drinking water	✓	✓		
Surface water	✓	✓		
Ground water	✓	✓		
Wastewater	✓	✓	✓	
Cooling water		✓		
Sea water		✓	✓	
High purity water				✓
High salt contained water			✓	
Soil	✓			
Solid waste	✓			



Flexible solutions for your laboratory needs

THE EASE OF OPERATING

The Star-LAB is fully controlled by the user friendly Star-LAB software which is compatible with the current Windows versions. Star-LAB incorporates a very simplified user interface which makes today's TOC analysis a routine and smooth operation.



The Star-LAB software package includes the following features:

- automatic calibration procedure
- sample queue sequence for using different oxidation techniques in one run
- system diagnostics
- real time measurement curves
- data evaluation and export to Excel
- customized sample curve, calibration line and sample data print-out reports
- service level operation tools for preventative and corrective service tasks
- method and configuration updates
- sample acidification and dilution functionalities (NPOC)



CUSTOM SYSTEM

A high quality autosampler and the latest innovations combined in one analyzer which covers the 4 oxidation techniques are some of the many advantages that makes a StarTOC system the real STAR of your lab.



IF WARRANTY GIVES TRUST

The NDIR Glass Cell is warranted for 5 years. All other electronic parts have a 12 Month Warranty.

The NDIR is a most critical component in any TOC analyzer. The StarTOC NDIR is the most rugged NDIR for difficult TOC analysis, as proven by many years of reliable field experience.

LAB SOLUTIONS

With this totally automated analyzer and its endless applications, the Star-LAB will be the best investment in your lab.

