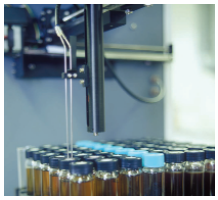
Product Specifications

Thermo Electron Corporation's High performance Total Organic Carbon (TOC) analyzer is designed to offer a total TOC solution. This multi-purpose analyzer includes 4 sample destruction techniques for flexible and versatile TOC analyses to meet the challenges of today's busy laboratories.

HiPerTOC

Total Organic Carbon analyzer



The choice is yours...

The HiPerTOC has 4 different destruction techniques in one to give the user the best flexibility to run the TOC analysis. The best destruction technique is mostly dictated by the matrix of the sample:

1. High temperature oxidation
   This is an excellent technique for fast results in difficult to oxidize and low-saline samples. It is the best choice for particulated samples.
2. UV/Persulfate
   The ideal oxidation technique for accurate results in routine environmental and drinking water samples. A direct TOC analysis method, handling large sample volumes.
3. UV (Ultra Pure)
   Reliable technique for extremely sensitive analysis results down to ppb level.
4. UV/Ozone promoted
   A powerful analytical technique for superior TOC analysis results of waters containing inorganic chloride and other salts up to % range.

The different destruction techniques make TOC analysis a lot easier: All the right tools are available, all the time. The two NDIR detectors measure for the high and the low range at the same time, so the user does not need to dilute and re-measure the out-of-range samples.

The flexibility of the HiPerTOC is fully supported by the ThEuS software. Samples can be run with different destruction techniques and calibration ranges in one run, fully automatic. No user intervention is needed to switch the destruction method or the calibration range. ThEuS let the user choose the calibration range and destruction technique per sample. To run all samples in the same way is just as simple.

Product Specifications

Auto sampler

The HiPerTOC incorporates a 55-position auto sampler suitable for automated introduction of liquid samples. The sampler is an easy to use operating system with high precision introduction, which results in excellent repeatability and high productivity. The stirring option is computer controlled and enables automated TOC analysis for samples with small particals

Specifications

Model	**HiPerTOC bench analyzer with ThEuS software**	
Dimensions:	800 x 600 x 400 mm (hxdxw)	
Weight:	50 kg	
Type of analyses:	TC, TIC, TOC, NPOC	
Type of Detector	Dual Beam Non-Dispersive InfraRed (NDIR)	
Typical sample volumes:	High Temperature	0.25 – 1.5 ml
	UV/Persulfate	1.0 – 8 ml
	Ultra Pure	3.0 – 8 ml
	Ozone promoted	0.25 – 3.0 ml
Measurement ranges	High Temp:	0.10 mg/l – 10000 mg/l
	UV/Persulfate:	0.05 mg/l – 10000 mg/l
	Ultra Pure:	0.03 mg/l – 3 mg/l
	Ozone promoted:	0.5 mg/l – 10000 mg/l
Typical Analysis time	High Temperature	3 minutes
	UV/Persulfate	2 minutes
Output	RS-232C	
Software	ThEuS analytical software 1.3 or higher	
Compliance	ASTM D4839, EPA 415.1, EPA 415.2, ASTM D4779, EN 1484	

Specifications Auto sampler

Sampler type	XYZ robot with stationary rack design 55 position 20/40 mL VOA vial
Stirring option	Magnetic stirrer for all sampler positions, computer controlled
Facility Requirements	
Ambient temperature	15 – 35 °C
Relative Humidity	20-80%
Power	115 +/- 10% VAC, 50/60 Hz or 230 +/- 10% VAC, 50/60 Hz
Oxygen/Pre-purified Air	300 ml/min (max.) at 2 bar (typical 250 ml/min), grade 4.

©2004 Thermo Electron Corporation. All rights reserved. All product and company names are the property of their respective owners. Specifications, terms and pricing are subject to change. Not all products are available in all countries. Please consult your local sales representative for details.

PS42033_E01/05

Thermo Electron Corporation, Delft, the Netherlands is ISO certified

Australia +61 2 9898 1244
Austria +43 1 333 50340
Belgium +32 2 482 30 30
Canada +1 800 532 4752
China +86 10 5850 3588
France +33 1 60 92 48 00
Germany +49 6103 4080
Italy +39 02 950 591
Japan +81 45 453 9100
Netherlands +31 76 587 98 88
Nordic +46 8 556 468 00
South Africa +27 11 570 1840
Spain +34 91 657 4930
Switzerland +41 21 694 71 11
UK +44 1442 233555
USA +1 800 532 4752

www.thermo.com

Thermo
ELECTRON CORPORATION