TOC Analysis – New Design, New Technology, Faster Results!

HiPerTOC – 4 Oxidation Techniques in One Instrument for Improved Versatility and Productivity

The HiPerTOC is a unique high performance TOC bench top analyzer featuring four different oxidation techniques for improved versatility and productivity in today's environmental laboratory. The HiPerTOC offers a total customer solution by removing the need to choose between the four common TOC techniques:

- High temperature oxidation
- UV/Persulfate
- UV (Ultra Pure)
- UV/Ozone promoted

Thermo's HiPerTOC reduces the cost per analysis by ensuring major productivity gains and time savings are constantly achieved thanks to its integrated 55-position XYZ auto sampler. This multifunctional TOC analyzer provides accurate and precise results at both high and low concentration levels in a wide variety of sample types ranging from particle loaded wastewater to clean drinking water. The HiPerTOC's main features include:

- Improved productivity with integrated auto sampler
- Two NDIR detectors for high and low TOC results in one queue
- Dynamic range 25 ppb – 20.000 ppm
- Measuring TIC and TOC in one run
- Small footprint saves bench space

ThEuS Analytical Software – Ensuring Intuitive and Smooth Control of Your AOX, EOX, POX and TOC Analyzer

The advanced user interface of the Thermo Electron Software (ThEuS) ensures the smooth operation of the AOX, EOX, POX and TOC analyzers. ThEuS assists the user to achieve routine analyses in an efficient, fast and reliable way. Instrument operation remains simple with the incorporation of clear and user friendly icons. This resourceful software makes it possible to modify sample queues, evaluate data and calibrate lines completely independently. Results can be presented in customized print reports or exported in a variety of data formats.

The technologies you need

The brand you trust

The service you deserve

In addition to these offices, Thermo Electron Corporation maintains a network of representative organizations throughout the world.

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Thermo Electron Corporation, Delft, the Netherlands is ISO certified

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AOX, POX, EOX and TOC Analyzer Product Range

Solutions for Total Halogen and Total Carbon to Suit Your Laboratory

Thermo ELECTRON CORPORATION

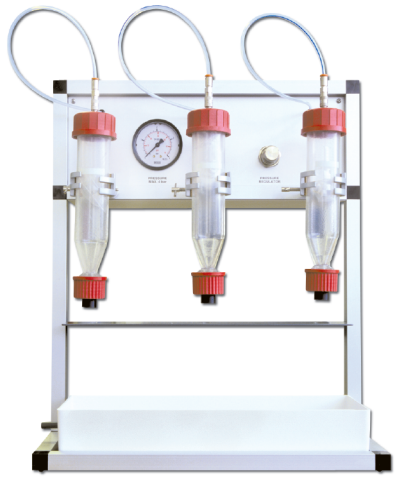
Analyze • Detect • Measure • Control™

Thermo ELECTRON CORPORATION

Total Halogen (AOX/TOX) Sample Pre-Treatment Systems – Simplicity and Flexibility

Organic halogens are most effectively analyzed by using either the column method or batch method, both of which require precise and repeatable absorption of organic halogens onto activated carbon. With this in mind, Thermo Electron Corporation has developed two different instruments for AOX/TOX sample analysis:

The EFU 1000 – Advanced Manual Pre-Treatment of Samples



The EFU 1000 is a filtration unit designed to comply with the batch method for manual pre-treatment of AOX/TOX samples. The instrument has three independent filtration units, all of which are equipped with the patented Quartz frit filter. The frit separates the water from the activated carbon. It is then used to introduce the AOX carbon residue into the furnace. The EFU 1000 offers several key benefits:

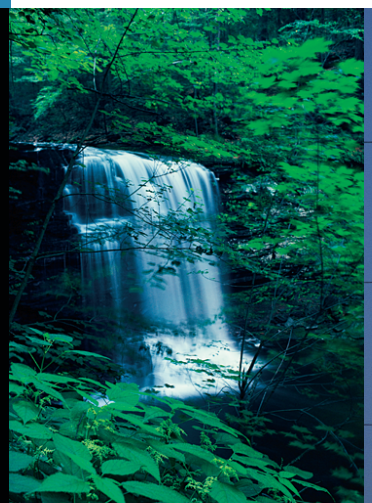
- Simple and easy operation
- Closed filtration system thereby preventing any risk of contamination
- Re-usable and self-cleaning Quartz frit
- Fast filtration
- Column option

PRESTO – Automated Control to Accelerate Analysis

The Presto is an automated filtration system, which analyzes AOX/TOX samples using the column method. It is a PC-controlled pre-treatment system of water samples that absorbs organic halogens onto activated carbon.

The Presto sample pre-treatment system comes in three models, the Presto-3, the Presto-6 and the Presto-18. Each model has been designed to take into account varying customer requirements. All three models offer a range of features incorporating the latest technology:

- Simple and easy to use
- Fully automated operation
- Fast pre-treatment tailored to DIN or customized methods
- Easy maintenance



AOX/TOX, EOX and POX Analyzers – Instruments Tailored to Different Analytical Needs

DEXTAR Analyzer - A Compact Solution for Occasional Analysis

The DEXTAR analyzer is designed to measure AOX/TOX quickly and accurately in a wide range of water and solid matrices. It is ideal for laboratories performing a limited number of AOX/TOX analyses and its key features include:

- Compact design
- Vertical sample introduction to save bench space
- Fast generation of sample queues and application methods in Microsoft® Windows™-based Thermo Electron software (ThEuS)
- Short start-up time (less than 15 minutes)

ECS 1200 Analyzer – Modular and Accurate Analysis

The ECS 1200 coulometric analyzer has been developed for fast and accurate measurement of AOX, EOX and POX in a wide range of water and solids samples. This instrument is especially suitable for laboratories performing an average number of AOX, EOX and POX analyses. The AOX, EOX and POX modules are easily interchangeable. The ECS 1200 can also be upgraded with Thermo's ESA 2000 for full automation of the AOX batch method. The TOX column method is automated using Thermo's ECA 1700 auto sampler. The ECS 1200 displays several key features, including:

- Modular design reduces bench space and investment costs
- Fast and precise measurement of soil and water samples
- User-friendly and intuitive user interface
- Expandable into a combined AOX/TOC analyzer

ECS 3000 – Ultimate Performance, Ultimate Power for High Throughput Analysis

ECS 3000 coulometric analyzer performs AOX,EOX and POX analyses for a wide range of water and soil samples, down to ppb level. The analyzer is especially designed for laboratories performing a large number of AOX, EOX and POX analyses. Thermo's ECS 3000 can be used in combination with auto samplers for liquids, solids or TOX columns for round-the-clock operation. The ECS 3000 is a stable and easy to use system offering:

- Very low detection limits
- High sample throughput and low cost per analysis
- Low maintenance, optimal combustion and conditioning of gases results in near to zero downtime
- Expandable into a combined AOX/TOC analyzer