

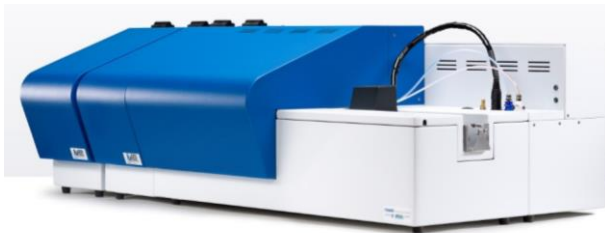
Ease of use and reliable

Adsorbable Organic Halogen (AOX) Analyzer

for routine environmental analysis



The TSHR Total Organic Halogen (AOX) Analyzer, model TX 6000, is able to analyze accurately the content of organic halogen compounds present in environmental samples such as waters (influent, effluent, drinking-, waste-), sludges and sediments and pulp and paper bleaches. The modularity of the analyzer with boat introduction and syringe sample introduction modules, high temperature furnace, gas conditioning unit and temperature controlled titration cell support labs with low, medium and high sample throughput.



Key advantages

Accurate and Reliable AOX data

Easy to use coulometric titration cell

High temperature furnace with 5 years warranty

Based on long-time proven Euroglas™ Technology

The pre-treated AOX sample is introduced by a fully integrated automatic boat module, into the combustion zone where oxygen will be added to complete the oxidation of the sample. After the dual zone combustion stage, the gasses go through an acid scrubber where all moisture and other potential interferences are removed.

The conditioned combustion gasses will flow towards the coulometric cell where the halide ions react with silver ions. The amount of charge needed to regenerate the precipitated silver ions is directly related to the total chlorine/halide concentration. The compact coulometric titration cell can handle up to at least 60 samples without refreshing of the electrolyte solution.

The TX 6000 model AOX analyzer is designed to facilitate the support of both syringe and boat introduction at high performance and reliability. This solution provides a fully fledged AOX/EOX analyzer, which can be extended with a liquids autosampler as well. The analyzer is operated by Athena software to control the analyzer and analyze and review AOX sample data.

Analytical specifications

	AOX	EOX
Sample introduction	Boat - AOX Module	Syringe – Liquids Module
Working range	5 – 1000 ug/L	0,1 – 1000 mg/L
Sample matrix	Water, semi-solids	Organic liquids
Quantity of sample	100 ml	1 - 100 uL
Analysis time	6 – 10 minutes	3 – 6 minutes
Relative Standard Deviation *	< 5% (>50 ug/L)	<5% (> 1 ppm)
Regulatory Compliance	ISO 9562, ISO 11480, EPA 1650, DIN 38409 p14, EN 1485	EPA 9023, DIN38414 p17

*Depend on typical application and sample matrix

Technical specifications

Furnace Voltage	2 x 24V, 50/60 Hz
Furnace Power	2 x 300W
Furnace Temperature Sensor	2 x Ni-Cr/Ni
Furnace Configuration	Dual temperature controlled
Furnace Temperature	1250 °C Max
Type of Analysis	AOX, EOX, TX (Optional Total Sulfur microcoulometry)
Detection Principle	Micro-coulometry
Dimensions	1017 x 390 x 590 mm (WxHxD)
PC operating system	Windows 7 english Professional or higher
Computer	Intel Core i3 / AMD Phenom or better
Software	Athena
Optional supply	HR 7000 Liquids Autosampler for 2 ml vials FU 3 AOX batch method sample prep unit

Facility requirements

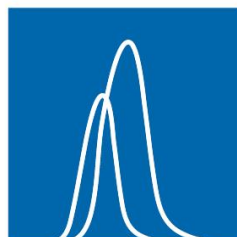
Voltage	115/230V, 50/60 Hz
Power	1200 W
Gas connector	1/8" Swagelok
Gasses	O ₂ (99,6%) medical grade 2.6 Ar (99,9998%) technical grade 4.8
Gas pressure	2 – 3 Bar (30-45 psi)
Ambient temperature	5 – 35°C (41 – 95 °F)

Contact info

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