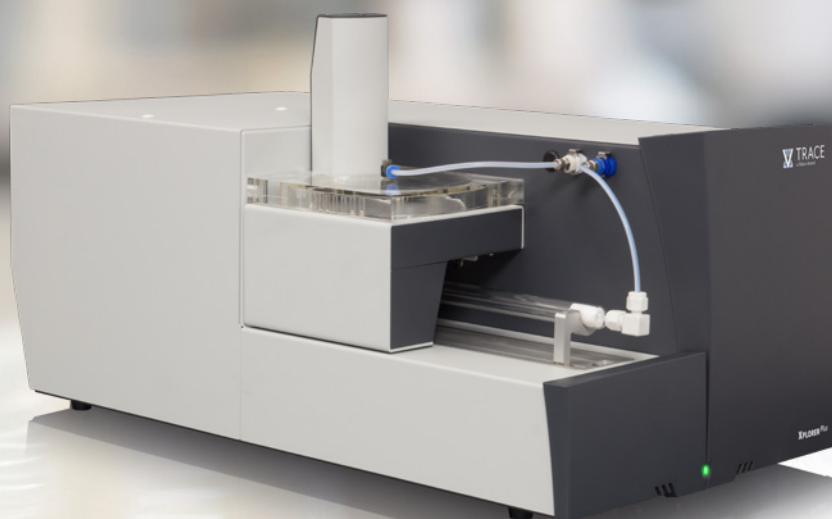




Advancing Automation Together

XPLORER^{Plus}

AOX/TOX/POX/EOX ANALYZER

Enhance efficiency, accuracy, and reproducibility in laboratory workflows



Introduction



The Next Generation in Environmental Sumparameters Analysis

The new Xplorer^{Plus} AOX/TOX analyzer is the successor of the Xplorer model which has proven performance within many environmental and industrial customers for monitoring the total organic halogens content.

The Xplorer^{Plus} offers a seamless sum parameter analysis, from AOX/TOX, EOX, and POX monitoring in wastewater, sludge, and soil, to the determination of TX/TOX contents in challenging organic matrices. Benefit from an ease-of-use operation, wide application range flexibility, and a high degree of automation which directly results in reliable results and maximum sample throughput capabilities to meet customers productivity needs.

Housed in the same space-saving benchtop format, the Xplorer^{Plus} features a completely reengineered internal flow path, delivering enhanced precision, increased robustness, and unmatched reliability.

The heart of the new analyzer is the newly developed X-Pro^{Plus} combustion tube based on the TSHR NEX-Z combustion tube technology. This cutting-

edge component supports a broader range of sample matrices, offers exceptional detection limits, and ensures minimal carry-over for maximum performance.

Experience the future of sum parameter analysis with the Xplorer^{Plus} AOX/TOX Analyzer model.

Most Features out of the smallest Footprint

The presence of the advanced auto-clean feature for the inline injection system, keeps the Xplorer^{Plus} itself automatically in optimum condition. This will enhance the instrument uptime and reduce user maintenance work. The Xplorer^{Plus} is standard equipped with mass flow controllers for both carrier gas and oxygen, which will result into consistent results and high-precision performance for every sample analysis. Additional leakage sensors ensure higher uptime by catching issues before they affect performance. Key components are easily accessible, no need to shut-down and open-up the analyzer.

Xpro^{Plus} Furnace Tube

The solution for advanced combustion capabilities

The newly developed XPro^{Plus} combustion tube features an innovative dual-collision technique combined with an extended flow path design. This advanced configuration creates a longer gas pathway, significantly enhancing precision and accuracy throughout the combustion process.

Engineered for performance and convenience, the XPro^{Plus} requires no consumables, such as catalysts or quartz wool, and is designed to handle virtually any sample matrix with ease. It ensures reliable results and seamless operation, redefining what's possible in combustion elemental analysis.

Unrivalled Detection Performances

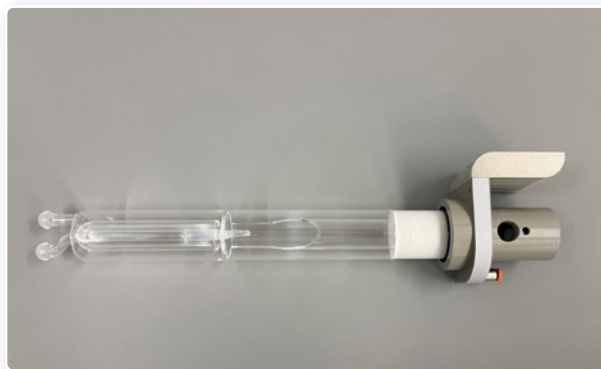
The Micro coulometric titration cell used in the Xplorer^{Plus} is equipped with a unique Auto-Gain function that ensures consistently accurate measurements. In addition, preparation of the chlorine titration cell is simple and user-friendly, contributing to improved operational efficiency.

Micro coulometry is the reference detection technique for determining total organic halogen content in AOX, TOX, POX, and EOX samples. It complies with international standards such as ISO, DIN, NEN, EPA, and CEN, and provides fast, quantitative, cost-effective, and absolute results.

All Environmental parameters in one platform

Our range of environmental solutions, from (automated) sample preparation to final analysis and reporting AOX/TOX/EOX/POX sample data is specifically designed to align with a broad range of standards, enabling our customers to meet even the most stringent regulatory requirements.

The Xplorer^{Plus} is designed for fast and accurate measurements across a wide range of sample types, including water, sludge, and soil. It is an ideal solution for laboratories conducting Organic Halogen Analysis, even those that require continuous, 24/7 operation. Switching between analysis modules for AOX, TOX, EOX, and POX is quick and simple, thanks to easily interchangeable components.



XPro^{Plus}, combustion tube



Xprep-A6, column sample preparation



Xprep-3, batch sample preparation

Sample Preparation

AOX/TOX Sample preparation stations

TRACE offers two solutions for the AOX/TOX sample preparation of water sample preparation according to the AOX Batch method or the AOX/ TOX column method.

The Xprep-3 is a three-channel, semi-automatic AOX batch-method sample preparation unit. It uses quartz frits to filter and collect activated carbon with adsorbed organic halogens, allowing the frit to be directly inserted into the AOX sample introduction module for analysis.

The Xprep-A6 is a six-channel, fully automatic AOX/ TOX column-method sample preparation unit. It enables water samples to be passed through two activated-carbon columns and includes nitrate wash steps to remove inorganic halogens prior to analyzing the columns in the Xplorer^{Plus} analyzer.

Seamless sample automation for AOX/TOX, EOX and POX analysis

Xplorer^{Plus} analyzer configurations can be extended with optional autosamplers to increase the productivity of your workflow and automate your daily-lab work.

The Xplorer^{Plus} can be equipped with the Newton solid autosampler, enabling fully automated sample introduction for AOX batch frits and AOX/TOX columns. The sampler offers a standard capacity of 20 positions, expandable to a maximum of 40 positions using additional trays.

For direct introduction of AOX/TOX columns, TRACE offers the TUSCAN, a column autosampler with a 42-position capacity.

The Vectra model liquids autosampler is standard equipped with 2 trays of 50 positions providing ease and fast automated EOX analysis.

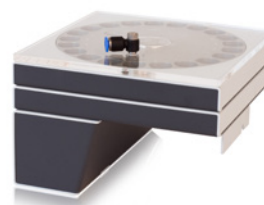
A dedicated POX module enables the Xplorer^{Plus} to perform rapid analysis of purgeable compounds, complementing other parameters like AOX/TOX and EOX.

Analytical Software Platform

TraceLINK software improves the productivity of your lab. It guides the user in performing reliable routine analyses efficiently. The intuitive user interface hardly needs any explanation. Modify sample lists and evaluate data in just a few clicks. Sample data is transferred easily to LIMS or exported in commonly used formats.



Vectra, liquids autosampler



Newton, solids autosampler



Tuscan, column autosampler

Test Method Compliance

AOX/ TOX	EOX	POX
DIN 38409 part 14	DIN 38409 part 8	NEN 6401
DIN 38414 part 18	NEN 5777	
ISO 9562	NEN 5735	
ISO 11480	NEN 6402	
EPA 9020	NEN 6676	
EN 1485		

**The Xplorer^{Plus} complies with, but is not limited to, the above international standards. Review our website for the complete overview.*

Typical Applications

Water Analysis	Drinking water, groundwater, surface water, cooling water, process water, and wastewater effluent/influent.
Industrial Effluents	Monitoring pulp & paper, chemical, textile, and petrochemical industries.
Solid Samples	Soil, sediment, sludge, and even some waste oils.

Analyzer Configurations

Xplorer^{Plus} TX

Parameter	Adsorbable Organic Halogens (AOX) Total Organic Halogens (TOX) Extractable Organic Halogens (EOX) Purgeable Organic Halogens (POX)
Detection	Micro coulometry (MCT)
Sample introduction	Liquids Module ^{Plus} (EOX: liquids only semi-automatic) Liquids Module ^{Plus} (EOX: Liquids only automatic with Vectra) AOX Module (Quartz frit and Quartz cup) POX Module (2 sample positions)
Autosampler EOX samples	Vectra (Standard supplied with 2 X 50 sample tray for 2 mL vials - Upgradable to max sample trays of 5 (up to 250 positions)
Autosampler AOX/ Solid samples	Newton: standard with 20 sample positions Optional: additional sample tray to extend to 40 positions
Autosampler for columns (direct introduction)	Tuscan 42 sample positions

Get in Touch!



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Additional information can be found on our website

www.trace-instruments.com



Ask a Question

Contact us via E-mail and we will get back to you as soon as possible

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Call us

If you require direct assistance, don't hesitate to call us!

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