



LABTECH®

LTX Unique

AOX / EOX / POX / TX analyzer



LTX Unique - an easy and simple way of AOX/EOX/POX/TX determination

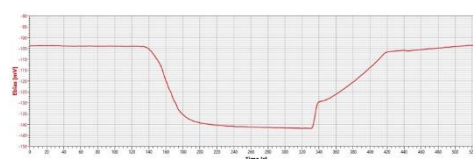
Most organic halogens are originated during utilization of different kind of solid and liquid materials and compounds which contain chlorine substances. Monitoring of processes like water treatment, bleaching, refinery and many others industrial processes is important to avoid contamination of environment by organic halogens.

LTX UNIQUE is designed to measure organic bound halogens in solid and liquid samples. These halogens are determined as specific groups of parameters:

- AOX (Adsorbable Organic Halogens)
- EOX (Extractable Organic Halogens)
- POX (Purgeable Organic Halogens)
- TX (Total Organic Halogens)



8 position AOX autosampler



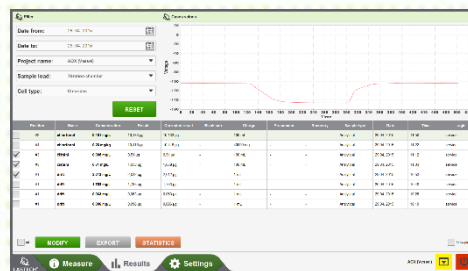
Real-time measurement curve

LTX Unique allows to determine wide range of halogen concentrations in various matrices at high flexibility and low cost operation. It meets with applicable **ISO, DIN, EPA and ASTM** standards.

Features and benefits

LTX Unique is the 3rd generation of analytical instrument which offers precise determination of halogens with easy-to-use operation. This combustion analyzer is dedicated to determination of AOX, EOX, POX and TX parameters.

- Modular and flexible design
- Optional AOX, EOX and POX modules
- High throughput by 8 position AOX autosampler
- Easy handling with simple operation
- User friendly and intuitive software
- Low maintenance and operation cost
- Technical and analytical support



ENGINE LT software – measurement

Analytical speed, reliability and flexibility

The LTX Unique analyzer has been designed with respect to the most proved and advanced components (combustion furnace, electronics and controllers), ensuring high precision and reliability of the system. Robust and modular construction guarantees an easy and reliable operation.

A specific design of the titration cell and compact electrodes ensure simple maintenance and long life of the electrolyte.

Principle of the operation

LTX Unique operates on the principle of oxidative microcoulometry when organic halides are combusted in the stream of oxygen at about 1000°C, producing corresponding hydrogen halogenides determined subsequently by the aid of automatic microcoulometric titration.

Simple operation and data handling

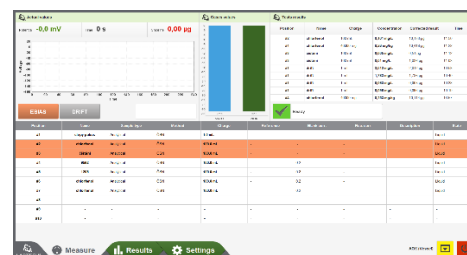
The analyzer is PC controlled with ENGINE LT software connected via USB interface. The user friendly and intuitive software provides simple operation of the instrument and accessories. The operator introduces the sample into the sampling boat / frits or autosampler and then press the START button. The sample cell is automatically closed by the motorized system. LTX Unique measures and automatically displays the signal/potential, controls the microcoulometric analyzer, calculates and stores the results of analyses. The previously measured samples are easily accessible in ENGINE LT software. All the data are stored in a database structure and can be exported to MS Excel®.



Sample preparation unit

LTX Unique Specifications

| | |
|--------------------|---|
| Dimensions | 970 x 360 x 295 mm (W x D x H) |
| Weight | 27 kg |
| Furnace temp. | Max.1100°C |
| Power supply | 230 V / 50 Hz, max.1100 W |
| Gas requirements | Oxygen 99,6 % (AOX/EOX), Argon 99,996% (EOX) |
| Software | ENGINE LT |
| PC | Windows® 10 |
| Detector | Microcoulometer with Ag indication electrode |
| Titration currents | 2000, 200-, 20 and 2 uA |
| Measuring range | 0.02 - 300 ug Cl- |
| Reproducibility | 1.5 % CV |



ENGINE LT software – results

LABTECH is the Czech independent company established in 1991. It manufactures analytical and testing equipment and provides wide variety of analytical services, supplies material testing systems and vacuum technology.

The company is the holder of the **CSN EN ISO 9001: 2016** quality management certificate and our laboratories are accredited according to **CSN EN ISO/IEC 17025:2005**.

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