

airTOXIC Purge for VOCs in Water

Surveillance of VOCs in water – BTEX included

In compliance with US EPA 502-2 method


airTOXIC Purge
 for VOCs in Water and
 Air in option

*No Need of external cylinder
 for operation calibration*
N2 GeneratorWater markets
 Finished drinking water
 Raw source water
 Drinking water
 Surface water
 Wastewater
 Rain water
Air markets in option
 Ambient air control
 Urban/Non urban area
 pollution control
 Indoor measurements
 BTEX/PAMS/TO14/TO15
Process
 Finished water
 Waste water / Effluent

*Chromatotec® is specialized in VOC, Sulfur and permanent gases analysis at trace and ultra trace levels (ppm, ppb, ppt).
 Please visit our website for more details.*

Updated: March 2021

CHLOROBENZENE

STYRENE

BTEX

TRIMETHYLBENZENE

BROMOMETHANE

TRICHO-ETHYLENE

airTOXIC Purge for VOCs in Water

Surveillance of VOCs in water – BTEX included

In compliance with US EPA 502-2 method in air, water or soil



Description:

The airTOXIC PURGE uses a valve with a sample trap.

It also features a metallic capillary column.

- Miniaturization, sensitivity, mobility and flexibility are its main features.
- Everything from the sample port up to the data storage is integrated in a wall mounted polyester cabinet (stainless steel in option).
- Uninterrupted sampling with pre-concentration on 1 absorbent tube
- Gas chromatograph with metallic column with programmable temperature gradient oven.

Electronic pressure measurement of the carrier gas.

- One week tested after production for quality control.

Vistachrom software enables the user to visualize and store data on the embedded industrial computer.

Furthermore it provides comfortable utilities to recalculate, calibrate and export data and to set-up measurement.

The software allows the calculation of retention time, area, mass or concentration profiles.

Automatic calibration and validation of the data with internal airmoCAL MFC.

Possibility to check linearity with multipoint cylinder dilution system controlled by Vistachrom software.

NITROXYCHROM included in standard

Purge for on line analytic instrument:

- In compliance with US EPA 502.2 Method
- 5 ml of water sample as standard or optional 25 ml sparger
- Purge with inert gas: ultra pure N₂ (Ultra High Purity) – 40 ml/min from NITROXYCHROM (N₂ generator) included
- Sampling time: 11 minutes
- Dead volume < 15 mL (volume between water and trap)
- Bubbles with a diameter < 3 mm at the origin of the frit
- Automatic rinse (twice as standard)

Up to 40 compounds analysed by airTOXIC Purge in standard. More compounds with FID, ELCD or MSD.

Options:

- Capability to analyze VOCs in water and in air with the same system automatically. Switch from water to air is controlled by Vistachrom software.
- 24 V power: for transportable analysis
- Multiple streams selector (2 to 6 streams with one analyzer)
- Calculation Module (Average)
- Explosion proof Exp box – ATEX or CSA on request
- Automatic calc cleaning (ultrasonic or chemical)

Product Technical Specifications:

Analysis by airTOXIC Purge

Up to 40 compounds

BTEX and chlorine compounds

Detection limits

Benzene : 1 ng/liter in water or 10 ppt in air

Detection range (adjustable depending on application)

0.5 to 20 µg/l for surface water and finished water

Purge method

ZERO N₂ analysis

ZERO WATER analysis

Standard water analysis

Ambient air analysis in option

Relative Standard Deviation

RSD < 3 % on concentration over 48H

RSD < 0.3% on retention time over 48H

< 10% for water analysis on concentration

Cycle time

From 15 to 60 minutes depending on application

Supervisor

Embedded computer Windows based with LCD display

128 GB of Hardware storage on SSD memory

Linearity R² > 0.99

Communication

MODBUS protocol included in standard

4-20mA (optional)

Gas supply

Carrier gas : N₂ (3 bar) 4ml/min

CALIB: in continuous 50 ml / min.

CALIB during validation ~ 450ml/min

Sample dryer: 200 ml/min

Detector cleaning : 3ml/min

Pneumatic valve 90ml/commutation

Power supply

Main: 230V 60Hz or 115V / 50Hz

Power: 24V (optional)

Electrical consumption 150 VA

Rack characteristics

Height: 800 mm

Width: 600 mm

Depth: 300 mm

Net weight: 40 Kg

Measurement of temperature and pressure in the box

To order:

airTOXIC PURGE

Model:

A78022

Chromatotec® is continuously improving its products, therefore these specifications are subject to change without notice

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