

airmoVOC WMS

Monitoring of VOC in water - BTEX included
Based on EPA* 502.2 Method



Model: A25022

Water markets

Finished drinking water
Raw source water
Drinking water
Surface water
Wastewater (head space / ppt)
Rain water

Air markets in option

Ambient air control
Urban/Non urban area pollution control
Indoor measurements
BTEX/PAMS/CE analysis

Process

Finished water
Waste water / effluent



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

Chlorobenzene
STYRENE
BTEX
TRIMETHYLBENZENE
TRICHLOROETHYLENE

airmoVOC WMS

Surveillance of VOC in water - BTEX included

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Principle:

The airmoVOC WMS 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 box.
- Uninterrupted sampling with pre-concentration on absorbent tube
- Gas chromatograph with metallic column with programmable temperature gradient oven.

Pressure control of the carrier gas by piezo-valve.

- One week tested after production for quality control.

Vistachrom software enables the user to visualize and store data on a PC.

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.

Purge: for on line analytic instrument

- Based on 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
- Sampling time: 11 minutes
- Inlet calibration is easy to perform thanks to a low sample volume required only 5ml of water
- Dead volume < 15 mL (volume between water and trap)
- Bubbles with a diameter < 3 mm at the origin of the frit
- Automatic rinse

Example of application

All VOC below can be analysed	N° CAS	All VOC below can be analysed	N° CAS
1,2-Dichloroethane	107-06-2	o-Xylene	95-47-6
Benzene	71-43-2	Isopropylbenzene	98-82-2
1,2-Dichloropropane	78-87-5	1,3,5-Trimethylbenzene	108-67-8
Trichloroethylene	79-01-6	1,2,4-Trimethylbenzene	95-63-6
Toluene	108-88-3	1,3-Dichlorobenzene	541-73-1
Tetrachloroethylene	127-18-4	1,4-Dichlorobenzene	106-46-7
Chlorobenzene	108-90-7	1,2-Dichlorobenzene	95-50-1
Ethylbenzene	100-41-4	1,2,4-Trichlorobenzene	120-82-1
* m-Xylene	108-38-3	1,2,3-Trichlorobenzene	87-61-6
* p-Xylene	106-42-3	Hexachloro-1,3-butadiene	87-68-3
Styrene	100-42-5		

Options:

- DET QMS for online GCMS
- airmoVOC BTEX expert 1 ppt LDL
- Automatic validation and calibration with internal CALIB
- 24 V DC power supply
- Integrated hydrogen and zero air generators for autonomous analysers
- Multiplexer: 2 to 32 streams
- 1 stream for water and 1 stream for air
- Internal or external multipoint calibration and zero with CALIB MFC, XXXCYL MFC, airmoCAL PAH
- airmoVOC C6C16 for more VOCs and S VOCs
- Analog output 4-20 mA or 0-10 V

Product technical specifications:

Analysis by airmoVOC:

3 main solutions :

Up to 60 compounds with :

- 60 compounds : our Purge & Trap 2 GC FID
- 50 compounds : our Purge & Trap 1 GC FID
- 50 compounds : our Purge & Trap 1 GC PID
- BTEX and chlorine compounds

Detection limit:

- < 0.001 µg/l for BTEX

Detection range:

- 0.05 to 20 µg/l for surface water and finished drinking water

Relative standard deviation (RSD):

- < 0.3% over 48h (Retention Time)
- < 3% over 48h (Concentration)
- < 10% for water analysis (Concentration)

Base Line: Zero drift:

- < ±3%

Linearity:

- R² > 0.99 on all compounds

Supervisor:

- Full result storage (data and chromatogram)
- Embedded computer Windows® based with LCD display
- 128 GB of Hardware storage on SSD memory
- 4 USB Connecting Port
- Two RS-232 ports
- Display: 10" TFT Color LCD
- MODBUS RTU / JBUS communication protocol

Cycle time:

- 30 min or 60 min

Gas supply:

- H2 (FID and carrier gas): 30 ml/min (supply 2 bar ; 1/16" double ferrule
- Air (FID) : 180 ml/min (supply 3 bar ; 1/8" double ferrule
- N2 (Purge): 40 ml/min (inlet 3 bars ; 1/8" double ferrule)
- Sample inlet (vacuum pump) ; 1/4 double ferrule
- Pneumatic valve 90ml/commutation

Operation Temperature:

- Room with air conditioning: 10 to 25°c

Purge:

- ZERO N2 analysis
- ZERO WATER analysis (Blank)
- Standard water analysis

Power supply:

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

Electrical consumption:

- Mean: 150 VA, Peak 360 VA

Installation in a wall-mounted cabinet:

- Height: 1440mm
- Width: 600mm
- Depth: 300mm
- Net weight: 80 Kg

To order:

airmoVOC WMS

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

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