

# airmoVOC BTEX MCERTS

A GC/FID instrument for automatic, continuous monitoring of BTEX in air, water or soil



Model: A21022



## Applications of the airmoVOC BTEX MCERTS:

Benzene, toluene, ethylbenzene, xylenes

### Environment:

Monitoring of urban and non-urban pollution  
Monitoring of industrial nuisance

### Industrial:

Industrial health and safety monitoring  
Process Quality Control

### Other Applications:

Waste water (headspace / ppt)  
Drinking water  
CO<sub>2</sub> purity control for drinks market...

*Analyser certified by a laboratory accredited to the norme EN-14662-3 for the measurement of benzene*



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.

Updated: October 2013

Ethylbenzene  
Toluene  
1.3 Butadiene  
Cyclohexane  
Benzene  
Styrene  
Xylene (o,m,p)

# airmoVOC BTEX MCERTS

A GC/FID instrument for BTEX monitoring in air, water and soil



## Description:

The airmoVOC BTEX MCERTS is a gas chromatograph for the analysis and monitoring of trace amounts of benzene, toluene, ethylbenzene, (m/p/o) xylene by FID detection.

## Principle:

- Automatic sampling and concentration using an absorbant trap
- Desorption from the trap and injection into a metallic capillary column regulated by a temperature gradient. The H2 pressure at the column head is controlled by a piezo valve.
- The detection of all compounds eluting from the column is performed by a FID detector

## Characteristics:

The airmoVOC BTEX MCERTS is equipped with an integrated PC including the Vistachrom program. The internal calibration option CALIB allows for automatic validation of results. (Certified Benzene tube at  $\pm 10\%$ ).

The instrument is robust, compact and very low maintenance and offers excellent result quality : repeatability, linearity, stability and sensibility (ppt).

TÜV Certificate for BTEX in 1996  
MCERTS Certificate for A21022 : SIRA MC 130231/00, 26 July 2013

## VISTACHROM® software:

The software developed by Chromatotec® allows:

- Remote monitoring
- Full traceability through archiving of results and QC
- Set up and control of threshold alarms
- Export of data MODBUS / 4-20mA / 0-10V

## Options:

- Automatic data transfer through:  
Module for 4 output 4-20mA / Modbus / MGS1
- Hydrogen Generator
- Zero Air Generator
- Multiple stream analysis with Multiplexer
- Dilution system
- Heated lines
- AirmoVOC Expert ppt

## Product technical specifications:

### BTEX analysis:

- Standard – 5 peaks : Benzene, Toluene, Ethylbenzene, M+P Xylene, O Xylene
- Option - 6 peaks : Benzene, Toluene, Ethylbenzene, Styrene, O Xylene, M+P Xylene.
- Also option for : Benzene, 1.3 Butadiene

### Detection limit:

- Benzene < 50 ppt or 0,16  $\mu\text{g}/\text{m}^3$

### Standard detection range:

- 0,1 to 380  $\mu\text{g}/\text{m}^3$  for Benzene
- standard ambient air monitoring 0 to 50  $\mu\text{g}/\text{m}^3$

### Relative Standard Deviation:

- < 0.3 % over 48 h (retention time)
- < 3 % over 48 h (concentration)

### Results:

- Full result storage (data and graphics)
- Module for 4 output 4-20 mA current output (option)
- MODBUS / JBUS communication protocol (option)

### Cycle time:

- 15 to 30 min

### Gas supply:

- H2 (FID and carrier gas): 30 ml/min (supply 2 bar ; 1/16" Swagelok)
- Air (FID) : 180 ml/min (supply 3 bar ; 1/8" Swagelok)
- Sample supply (sample pump) 1/4" Swagelok

### Volume sampled:

- 30 to 700 ml (programmable)

### Power supply:

- Main: 230V / 115V or 50 Hz / 60Hz
- Battery: 24V (option)

### Electrical consumption:

- Average: 150 VA ; Peak : 360 VA

### Dimensions and weight:

- Rack: 19" (5U)
- Height: 222 mm
- Width: 482 mm
- Depth: 600 mm
- Net weight analyser: 22 kg



**To order:**  
airmoVOC BTEX 5U

**Model:**  
A21022 BTEX MCERTS

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



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