

# airmoVOC C6-C12

BTEX included

Analysis of up to 53 compounds from C6 to C12 and halogen compounds (TO14) or (PAMS).



Model: A21022



## Environment:

Urban/Non urban area pollution control  
Indoor measurements  
BTEX / PAMS / CE analysis  
Plant / process emissions

## Process:

Industrial Hygiene  
Fence line monitoring

## Other applications:

Wastewater plant, Purge and trap (method 502-2 or 524), Ambient air control (PAMS and TO14)



Selected by US EPA



1996



2006



2010-C212

2010

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.

Naphtalene

CHCL3

Styrene

BTEX

CCL4

Tri-methylbenzene

MTBE

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Analysis of up to 53 compounds from C6 to C12 and halogen compounds (TO14) or (PAMS).



## Principle:

The airmoVOC C6-C12 uses a valve with 1 sample trap, and 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 19"-rack 5U:**

- Uninterrupted sampling with pre-concentration on 1 absorbent tube
- Gas chromatograph with 0.2 mm ID metallic column and programmable temperature gradient oven and pressure / flowcontrol of the carrier gas by piezo-valve

Before delivery the analyser is tested for one week by our quality control department. The Vistachrom software enables the user to visualize and store data on a PC. Furthermore it enables the user to recalculate, calibrate the instrument export data and to set-up measurement.

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

**For more information, consult our Case Study  
Ambient air monitoring like :  
airmOzone 88, airmOzone + DET QMS 96 from PAMS-TO14,  
Car painting line, airmoTWA, airmoVOC BTEX**

## Options:

- On-line results are transmitted via: MODBUS / JBUS or MGS1 communication protocol
- AirmoVOC Expert 1 ppt
- Automatic validation and calibration with internal CALIB
- 24 V power supply
- Hydrogen and zero air generator for transportable analysers
- Multiplexer: 2 to 32
- Purge module to extract VOC from water for online VOC in water analysis
- Internal or external multipoint calibration and zero with CALIB MFC, XXXCYL MFC, airmoCAL MFC or airmoCAL D
- Up to C16 with airmoVOC C6C16

## Product technical specifications:

### C6 to C12 analysis:

- C6 (Hexane, Dimethylbutane) to C10 (Diethylbenzene, Naphtalene) and dodecane

### Detection limit:

- Tri-methylbenzene: 10 ppt or 0.05 µg/m<sup>3</sup>
- Benzene: 10 ppt in standard  
1 ppt with airmoVOC Expert

### Detection range:

- 0.05 to 45 µg/m<sup>3</sup> for Tri-methylbenzene and Benzene - (A3)
- 0,50 to 400 µg/m<sup>3</sup> for Tri-methylbenzene and Benzene - (A2)

**Note: Be careful with total mass and mass by compounds.**

**Amplification 1: On demand to decrease the sampling volume.**

### Relative Standard Deviation:

- < 0.3 % over 48h (RT)
- < 3 % over 48 h (Conc.)

### Results:

- Data storage
- MODBUS / JBUS communication protocol (option)

### Cycle time:

- 15 min, 30 min, 40 min, 60 min

### Gas supply:

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

### Sample volume:

- 30 to 700 ml (programmable)  
(Sampling time up to 40 minutes)

### Power supply:

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

### Electrical consumption:

- Mean: 150 VA, Peak 360 VA

### Dimensions and weight:

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



### To order:

airmoVOC C6-C12  
5U inbuilt computer

### Model:

A21022

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

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