

# airmoVOC 624

VOCs surveillance BTEX included

Analysis of up to 49 compounds from TO14 or PAMS



Model: A24022

## 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)  
Ambiant air control  
PAMS and TO14



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.

Naphthalene

CHCL3

Styrene

BTEX

CCL4

Tri-methylbenzene

MTBE

1,3-butadiene

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## Principle:

The airmoVOC 624 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 metallic column and programmable temperature gradient oven and pressure / flowcontrol of the carrier gas by piezo-valve
  - Electric pressure measurement of the carrier gas

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 by FID detection**

## Options:

On-line results are transmitted via:

- MODBUS / JBUS or MGS1 communication protocol
- AirmoVOC Expert 1 ppt
- Automatic validation and calibration
- 24 V power supply
- Hydrogen and zero air generator for transportable analysers
- Multiplexer: 2 to 10
- Process MS for GC/MS analysis

## Product technical specifications:

### airmoVOC 624 analysis:

- Up to 49 compounds
- BTEX and chlorine compounds

### Detection limit:

- Benzene: 10 ppt in standard; 1 ppt with airmoVOC Expert

### Detection range:

- 0.05 to 400  $\mu\text{g}/\text{m}^3$  for Tri-methylbenzene

### 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: $R^2 > 0,99$

### Communication:

- MODBUS protocol included in standard
- 4-20 mA (optional)

### Gas supply:

- Carrier gas: H<sub>2</sub> (2 bar) 4 ml/min + 26 ml/min FID
- CALIB: in continuous 50 ml/min
- CALIB during validation: ~ 450 ml/min
- Air (FID): 180 ml/min (inlet 3 bar)
- Pneumatic valve 90ml/commutation

### Sample volume:

- 30 to 700 ml (programmable)

### Power supply:

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

### Electrical consumption:

- 150 VA

### Dimensions and weight:

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

### To order:

airmoVOC 624  
5U inbuilt computer

### Model:

A24022

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

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