

# airmoVOC<sub>XP</sub>ERT : C2-C6

Designed for analysis + monitoring of "light" hydrocarbons. It is used for the measurement of volatile hydrocarbon in the range of C2 to C6 i.e. from Ethane through 1,3-Butadiene up to Benzene (and other C6 compounds).



Model: A23000 (4U: see above)

Model: A23022 (5U)

## Environment:

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

## Toxicity:

Benzene, 1,3-butadiene  
VOC screening of CO2 quality for the food and beverage industry

## Process:

Industrial Hygiene  
Fence line monitoring  
Acetaldehyde/benzene



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

Butenes

Acetylene

Ethane

1,3-butadiene

Pentenes

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## Principle:

The instrument uses a 6-port valve with a single sorbent trap, and a metallic capillary column. It has a minimum detection level as low as 15 ppt (for **1,3-Butadiene** for e.g.) in ambient air, and analyses up to 32 compounds during a single analysis. The **airmo VOC C2 – C6** uses a **thermoelectric cooling** system to control the temperature of the sample trap when required, for example for the analysis of **Ethyne**. 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 4U. Programmed gradient temperature of the oven and pressure/flow control of the carrier gas by the **piezo-valve**. Before delivery the analyser is tested for one week by our quality control department. The Vistachrom software enables the user to view and store data on a PC. It provides user friendly utilities to recalculate, calibrate and export data and to configure the measurement. The software allows the calculation of retention time, area, mass or concentration profiles.

Example of analysed VOC's

PAMS Photochemical Assessment Monitoring Stations	USA	EUR
All VOC below can be analysed	20/55 AIRS FORMAT*	17/30
<b>Ethane C2</b>	43202	X
Ethylène/Ethene	43203	X
Acétylène/Ethyne	43206	X
<b>Propane C3</b>	43204	X
Propylène/Propène	43205	X
iso-butane (2-methyl propane)	43214	X
<b>N-butane C4</b>	43212	X
1-butène	43280	X
Iso-butene (2-methyl propene)	43215	
Trans-2-butène	43216	X
Propyne		
Cis-2-butène	43217	X
1,3 butadiène		X
Cyclopentane	43242	
iso-pentane (2-méthyl butane)	43221	X
<b>N-pentane C5</b>	43220	X
1-pentène	43224	X
Trans-2-pentène	43226	X
Cis-2-pentène	43227	X
N-Hexane		
Isoprene...		

## Options:

- On-line results are transmitted via a MODBUS
- Trap cooling at lower temperature: adsorbent tube (C2C6 trap) cooling low down to -30°C
- MFC: for FID gases (H2 and Air)
- **Automatic** validation / calibration
- 24 V power supply
- Hydrogen and zero air generator
- Multiple Stream selector (2 to 6)

## Product technical specifications:

### Light COV analysis:

- C2 to C6 (benzene for calibration only)

### Detection limit:

- 15 ppt for 1,3-Butadiene or 33 ng/m<sup>3</sup>

### Detection range:

- 0.033 to 50 µg/m<sup>3</sup> of 1,3-Butadiene - (A2)

### Relative Standard Deviation:

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

### Results:

- Data storage
- MODBUS communication protocol (option)

### Cycle time:

- 30 min as standard (20 min. optional)

### Gas supply:

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

### Sample volume:

- 20 to 240 ml (programmable)

### Power supply:

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

### Electrical consumption:

- Mean: 150 VA, peak 360 VA

### Dimensions and weight:

- Rack: 19" (4U)
- Height: 180mm
- Width: 482mm
- Depth: 600mm
- Net weight : 17 Kg



## To order:

airmoVOC<sup>XP</sup>ERT : C2-C6 (4U)  
Needs a 5U supervisor  
Supervisor (5U)  
airmoVOC<sup>XP</sup>ERT : C2-C6 (5U)

## Model:

A23000

XXX015

A23022

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



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