

airmoVOC 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: A11000

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



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.

Updated: October 22

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 (i.e. **1,3-Butadiene**) 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 and/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 |
| Ethane C2 | 43202 | X |
| Ethylène/Ethene | 43203 | X |
| Acétylène/Ethyne | 43206 | X |
| Propane C3 | 43204 | X |
| Propylène/Propène | 43205 | X |
| iso-butane (2-methyl propane) | 43214 | X |
| N-butane C4 | 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 |
| N-pentane C5 | 43220 | X |
| 1-pentène | 43224 | X |
| Trans-2-pentène | 43226 | X |
| Cis-2-pentène | 43227 | X |

Options:

- On-line results are transmitted via a MODBUS / JBUS or MGS1 communication protocol
- Analog output 4-20 mA or 0-10 V
- Automatic** validation / calibration
- 24 V power supply
- Hydrogen and zero air generator for transportable analysers.
- Multiple Stream selector (2 to 6)

Product technical specifications:

Light COV analysis:

Detection limit:

- 15 ppt for 1,3-Butadiene or 33 ng/m³

Detection range:

- 0.5 to 100 PPB/amplification³ in standard

Relative Standard Deviation:

- < 0.3 % over 48h (RT)
- < 2 % over 48 h (Conc.)

Results:

- Data storage
- 4-20mA current output (option)
- MODBUS / JBUS or MGS1 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" 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:

- 20 to 240 ml (programmable)
(Sampling time up to 40 minutes)

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 C2-C6 (4U) (with internal cooling)
Needs a 5U supervisor
Supervisor (5U)
Chromatotec® computer 5U, LCD display,
Vistachrom software, 2 x RS232

Model:

A11000

XXX015

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

To contact us: sales@chromatotec.com

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