

airmoTHM

A GC with a detector by conductivity for
online survey of **THM (Tri Halogen Methane)**
and/or Total Halogens (option)



THM

methylenechloride

dichloroethane

tetrachloroethylene

chlorobenzene
TrichloroMethan

Environnement: Analysis of THM in indoor air

Total Halogen analysis in Air or Gas (option)

Toxicity: Halogens

→ *Sampling 11 minutes for: Range = 0,01 to 200 μg by liter (water) or (air) m^3*

CHCl₃ = Chloroform = TrichloroMethan
CHCl₂Br = BromoDichloroMethan
CHClBr₂ = DiBromoChloroMethan
CHBr₃ = TriBromoMethan

Process: Industrial Hygiene
Fence line

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• Principle

This instrument uses an injection valve with a **single trap, cooled at 14°C by Peltier effect**

Sampling flow 20 /70 or 250 ml/min

- **Capillary column (0.53) heated at 120°C.**
- 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.
- **Isothermal temperature** of the oven and pressure/flow control of the Helium carrier gas by the **valve**.
- **Before final delivery the analyser is tested for two weeks by the Quality Control department.**
- **Conductivity detector.** Halogen Specific with Propanol .The response is due to the formation of HF, HCL, HBr or HI. **These acids are formed by hydrolysis of some halogenated hydrocarbons.**
- Bi-directional RS-232 to transfer **data temperature, pressure, status and results to the computer.**
- The Vistachrom software enables the user to view and store data on a computer. It provides comfortable 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, in **any international measuring unit.**
- Calibration for validation: we use a permeation tube diluted by air for calibration.

Options:

- **Automatic validation and specific calculation**
- 24V power supply.
- **Catalytic oven for Total Halogens**
- **Multiplexer: up to 10 streams**
- **N₂ gas generator**
- **Analog or digital output**
- **Alarms:** Analog or digital output or alarm.

• Technical Specifications

BCME Analysis:

Halogens or Total Halogens (option)

Detection limit in automatic mode:

0.1 PPB for BCME

Standard Relative variation:

< 0.3 % on 48h (RT)

< 2 % on 48 h (Concentration)

Results:

- Data storage on hard disk
- 4-20mA outputs (option)
- Communication protocol in option.

Cycle time:

6 min. as standard for BCME

Gas supply:

N₂ or Helium: 20 ml/min

(inlet 3 bars ; 1/8" swagelock)

Sample inlet (vacuum pump) 1/4" swagelock

Sample volume:

20 to 1000 mL (programmable)

Power supply:

-Main (230V / 115V - 50 Hz/60Hz)

-Battery 24V (option)

Electrical consumption:

Mean 150 VA, Peak 360 VA

Dimension:

Rack 482 mm (19")

Height (4U) 177 mm, depth 600 mm

Weight:

20 kg

Printed Matter Reference:

TSP-A61H-airmoTHM-110621.doc

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Due to Chromatotec continuing program on product improvements, specifications are subject to change without notice