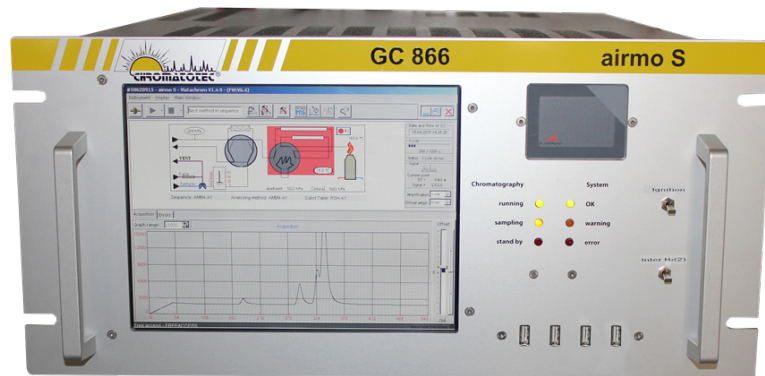


**airmo S**

Online monitoring of  
Sulfur compounds by auto GC/FPD



**Model: C52022-Trap (5U)**

**Sulfur Specific Analyser (from ppb to ppm):**

CS<sub>2</sub>

Mercaptans (Methyl-SH / Ethyl-SH / Isopropyl-SH / Terbutyl -SH...)  
Sulfides (DMS / DMDS / DES...)

**airmo S applications: Odour Control & monitoring:**

Ambient Air Monitoring  
Waste Water Treatment Plant  
Gas odourisation & deodorisation  
Impurities in Pure Gas (CO<sub>2</sub>, CH<sub>4</sub>...)  
Stack Emission Monitoring  
CEM - Continuous Emission monitoring

*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: July 2016

Sulfides

CS<sub>2</sub>

Mercaptans

Total  
Mercaptans

# airmo S

Online monitoring of  
Sulfur compounds by auto GC/FPD



## Description:

airmo S is a fully automatic isothermal gas Chromatograph for the analysis & monitoring of sulfur compounds with Sulfur Specific Detector. This solution is specific for application where low sensitivity on sulfurs must be reached. This auto GC uses a valve with 1 sample trap, and metallic capillary columns.

## Principle:

- Continuous, uninterrupted sampling
- Sample is injected into column oven for separation
- Controlled oven selects optimum temperature based on application
- Detection achieved by a sulfur specific photometric double flame detector (FPD)

## Features:

- The double flame ensures no quenching occurs
- Automatic linearization of compounds
  - Identification of compounds is based on their retention time (Elution from the column)
  - Automatic data validation as standard with internal permeation tube (DMS)

## VISTACHROM® software:

- The software developed by Chromatotec® allows:
- Remote monitoring
  - Full traceability through archiving of results and QC
  - Set up and control of threshold alarms
  - Export of data MODBUS / MGS1 / 4-20mA / 0-10V
  - Windows 7

## Options:

- Automatic data transfer through:
  - Modbus or MSG1 communication protocol
  - Analog 4-20mA or 0-10V output
- Hydrogen Generator
- Zero Air Generator
- Multiple stream analysis with Multiplexer
- Dilution system
- Heated lines

## Product technical specifications:

### Compounds analysed:

Specific sulfur compounds analysis:  
Me-SH, Et-SH, Isopropyl-SH, Terbutyl-SH, DMS, DES, DMDS, CS2 ...

Options: n-propyl-SH, 2-butyl-SH

### Detection limits with trap:

- 0,1 ppb double Sulfur Compounds like DMDS, CS2 etc...
- 0,2 ppb single Sulfur Compounds (MM, DMS etc..)

### Detection range (selectable ppm / ppb)

- 0,1 ppb to 5 ppm (Low Range)
- 10 ppb to 10 ppm (High Range)

### Relative Standard Deviation:

- RSD < 5% on concentration over 24hrs
- RSD < 1% on Retention Time over 24hrs

### Data Management:

- Full storage of chromatograms & results
- All analysed dates & times stamped individually

### Cycle Times:

- 20 minutes

### Gas Supply:

- Carrier Gas - N2 recommended / Air possible 3 bar (5ml/min) 1/8"
- Sample Inlet - 1 Bar or ambient pressure (airpump)
- Detector - H2 at 2 Bar (70 ml/min) 1/8"  
- Air at 3 bar (80 ml/min) 1/8"

### Power Supply:

- Main: (230V / 50Hz) or (115V / 60Hz)
- Battery: 24V (as option)
- Consumption: 250W (+50W for computer)

### Dimensions and Weight:

- Rack: 482 mm (19")
- Height: 177,8 mm (4U) or 222 mmm (5U)
- Depth: 600mm
- Weight: 22 kg (With integrated computer)

### To order:

airmo S (4U)  
airmo S (5U)

### Model:

C52000-Trap  
C52022-Trap

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

To contact us: [info@chromatotec.com](mailto:info@chromatotec.com)



#### **NORTH AMERICA**

CHROMATOTEC Inc.  
18333 Egret Bay Blvd, Suite 270,  
Houston TX 77058 - USA  
Phone: +1 (281) 335 4944  
Fax: +1 (281) 335 4943

#### **EUROPE**

AIRMOTEC AG SAS  
15 rue d'Artiguelongue  
33240 Saint-Antoine - FRANCE  
Phone: +33 (0) 557 940 626  
Fax: +33 (0) 557 940 620

#### **ASIA**

CHROMATOTEC Trading (Beijing) Co., Ltd.  
Room 1806, Building 1,  
Wanda Plaza, No.93, Jianguo Avenue,  
Chaoyang District,  
Beijing 100022 - CHINA  
Phone : +86 (0) 105 960 3283