

PAH

DIOXINE  
PRECURSORS

TO 14

BENZO [A]PERENE

NAPHTHALENE  
TO 15

FLUORENE

502.2/524

# Auto GC-MS C10C40+DET QMS:

Transportable Ultra-compact Trap GC-MS / FID system

Turnkey solution for continuous analysis for light S VOC's from C10 to C40

airmoVOC  
C10C40

Process Mass  
spectrometer

H<sub>2</sub> generator

N<sub>2</sub> generator



Based on



### Main applications:

Contaminants extracted from solid such as plastic like PET, Oil, industrial, emission etc.

### Targetted compounds:

Molecules listed on Methods:  
PAMS 56; TO14, TO15, 502.2/524  
More than 100VOC

SCAN or CLICK ME



For information, Polycyclic Aromatic Compounds: PAH, PCB, dioxins, furanes...

Chromatotec® is specialized in VOC, Sulfur and permanent gases analysis down to ultra trace levels (% , ppm, ppb, ppt).  
Please visit our website for more details

Updated: August 2024

# Auto GC-MS C10C40

## Transportable Ultra-compact Trap GC-MS / FID system

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### Description :

Auto GC-MS C10C40 is a combination of two robust instruments, airmoVOC C10C40 expert and Process Quadrupole Mass Spectrometer (QMS), which allows quantification and identification of chemicals from % to low ppt levels : VOCs, SVOCs, PAHs and dioxin precursors from gas, liquid and solid sample. Auto GC-MS C10C40 is delivered with gas generators and calibration system (in compliance with ISO 17025 for Benzene)

The analyzer is tested more than one week in our quality control department, then delivered and installed by our engineers. Once the instruments is set and running, the operators can easily control the air quality.

Vistachrom and MS software enable the users to view and store data on an industrial computer. It provides user friendly utilities to recalculate, calibrate, export data and to configure the measurement. Alkanes validate up to C25 and possibly up to C40 (with a boiling point of C40 around 522 °C). \*Already analyzed

PAHs up to C22: Benzo ghi perylene (with a boiling point 550 °C). \*Already analyzed)

### Configuration:

- airmoVOC Expert (with internal cooling and MFC for sampling and injector for liquid or solid
- Embedded PC with electronic and LED display with VISTACHROM.
- Mass spectrometer with pumps
- Hydrochrom USB 4U(hydrogen generator) max.100 ml/min
- airmoCAL-CALIB with 3 permeation tubes(Benzene+2 others) supplied with zero/air/calib/cylinder.

### Key points:

- \*Air monitoring by direct injection and in the Mass Spectrometer or using gas chromatography
  - \*Heated selection valve GC
  - \*Solid or liquid analysis (Bisphenol-A, Methyl stéarate...)
  - \*Automatic calculation of toxicity index /total aromatics for VOCs, SVOCs, PAHs and dioxin precursor.
  - \*Inbuilt heated line for sampling
  - \*Modem & remote control installed and configured into the computer
- Powerfull VISTACHROM and VISTAMS CHROMATOTEC software:
- Remote monitoring & injection control
  - Full traceability with on board archiving of results and chromatograms
  - QC setup and control of threshold alarms.

### Options:

- Online results are transmitted via MODBUS / JBUS or MGS1 communication protocol
- Analog output 4-20 mA or 0 – 10 V or alarms
- Multiple streams selector
- Purge and trap for liquid samples
- airmoCAL MFC for multipoint calibration
- Data export by MODBUS / 4-20mA / 0-10 V
- Time stamp results with full traceability
- Valid results
- MS can be used to detect and quantify individual coeluted chemicals from C6 to C10, as GC speciation is not as effective in these ranges.

### Technical specifications:

#### Detection limit:

- Benzene down to 10 ppt with Trap GC/FID/QMS
- Naphthalene 10 ppt or 0.05µg/m<sup>3</sup>

#### Detection Range:

- ppt to ppb
- 0.5 to 45 µg/m<sup>3</sup> (mCerts tests) with direct injection with QMS: 500ppb to %

#### Relative Standard Deviation:

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

#### Cycle time:

- 30, 60, 90 or 120 minutes (depending on applications)

#### Results:

- Data storage (timestamp)
- 4-20mA current output (option)
- MODBUS / JBUS or MGS1 communication protocol (option)

#### Supervisor:

- Embedded computer Windows® based with LED display
- 64 GB of Hardware storage on SSD memory

#### Gas supply:

- H2 (FID and carrier gas): 45 ml/min (inlet 4 bars; 1/16" swagelock)
- Air (FID): 450 ml/min (inlet 3 bars; 1/8" swagelock)
- Sample inlet (vacuum pump) 1/8" swagelock or by liquid injector

#### Power supply:

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

#### Electrical consumption:

- 1730 Watt maximum

#### Dimensions:

- 19" cabinet: 1850 mm with wheels & lifting rings
- Width: 600 mm
- Depth: 800 mm
- Height: 1850 mm

#### To order:

Auto GC-MS C10C40

#### Model:

A22022-MS

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

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