

airmoSCAN_{XP}ERT: VOC + PAH

Trap GC-MS / FID system

Turnkey solution for continuous analysis of PAH, VOC including BTEX and Dioxine Precursors

PAH
DIOXINE
PRECURSORS

TO 14

NAPHTHALENE
TO 15

FLUORENE

502.2/524

auto GC 866
Selected by US EPA _____

Supervisor _____

Process Mass
spectrometer _____

Calibration system _____

H₂ generator _____

Zero air generator _____



Environment:

Urban/Industrial area pollution control
BTEX/TO14/TO15
Hydrocarbons analysis
Fenceline monitoring

Process:

Industrial Hygiene
Fenceline

New applications:

Wastewater plant
Head space or purge and Trap: drinking water
INDOOR or outdoor air: ambient air monitoring

Heated line is delivered with the instrument

EPA Method 610
EPA Method 8100

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

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Description :

airmoSCANXPERT VOC + PAH is a combination of two robust instruments, airmoVOC C5C16 expert and Process Quadrupole Mass Spectrometer (QMS), which allows quantification and identification of chemicals at ppb, ppt and ppq levels : VOCs, SVOCs, PAHs and dioxin precursors.

airmoSCANXPERT VOC + PAH 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.

Principle:

The airmoSCANXPERT VOC + PAH uses an inbuilt heated sampling line with MFC to control the flow, an heated 6 ports valve with 1 sampling trap and a 30 meter metallic capillary column.

A high temperature GC oven (up to 350°C) allow the speciation of the compounds and then a "Y" allow the sample to go simultaneously on the FID detector and the proces Quadrupole Mass Spectrometer.

The integrated supervisor using industrial computer Windows based allows the control of the analyzers and generators.

Vacuum pump for the process QMS, CALIB and gas generators are integrated in the cabinet to provide a turnkey solution.

- Miniaturization, sensitivity, mobility and flexibility are its main features.

Key points:

Air monitoring with MCert auto GC 866 and Process Quadrupole Mass Spectrometer

Automatic quantification by GCMS in MID mode

Automatic calibration and validation of the data

Automatic calculation of toxicity index /total aromatics for VOCs, SVOCs, PAHs and dioxin precursor.

Heated 6 ports GC valve

Inbuilt heated line for sampling

Modem & remote control installed and configurated 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
- Data export by MODBUS / 4-20mA / 0-10 V
- Time stamp results with full traceability

Options:

- MODBUS / JBUS or MGS1
- Analog output 4-20 mA or 0 – 10 V or alarms
- Heated multiplexor up to 8 streams
- Purge and trap for liquid samples
- airmoCAL MFC for multipoint calibration

Technical specifications:

Detection limit:

- Benzene down to 1 ppt with Trap GC/FID/QMS
- Naphthalene 10 ppt or 0.05µg/m³

Detection Range:

- ppb, ppt to ppq
- 0.5 to 45 µg/m³ (mCerts tests)

Relative Standard Deviation:

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

Cycle time:

- 30 to 60 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 LCD display
- 32 GB of Hardware storage on SSD memory

Gas supply:

- H2 (FID and carrier gas): 30 ml/min (inlet 2 bars; 1/16" swagelock)
- Air (FID): 180 ml/min (inlet 2 bars; 1/8" swagelock)
- Sample inlet (vacuum pump) 1/4" swagelock
- CALIB in continuous: 50ml/ min
- CALIB during validation: 250ml/min
- Pneumatic valve: 90ml/ commutation

Power supply:

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

Electrical consumption:

- 1500 Watt maximum

Dimensions:

- 19" cabinet: 33 or 38 U
- Width: 600 mm
- Depth: 800 mm
- Height: 33 or 38 U

To order:

airmoSCAN_{XP}ERT VOC + PAH

Model:

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

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