

Naphtalene

PAC

C10

PAH

C20

PCB

Benzo(a)Pyrene

# airmo C10 C20+

Analysis of up to 18 Polycyclic Aromatic Hydrocarbon compounds (PAH)  
or Analysis of Polychlorobiphenyle (PCB)



## Environment:

Urban/Industrial area pollution control  
BTEX/PAMS/CE analysis  
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 at trace and ultra trace levels (ppm, ppb, ppt).  
Please visit our website for more details.*

Updated: March 2021

# airmo C10 C20<sup>+</sup>



Analysis of up to 18 Polycyclic Aromatic Hydrocarbon compounds (PAH) or Analysis of Polychlorobiphenyl (PCB)

## Principle:

The airmo C10 C20<sup>+</sup> uses a valve with 1 sampling trap. It also includes a **metallic capillary column**.

- Miniaturization, sensitivity, mobility and flexibility

**Everything from the sample port up to the data storage is integrated in a 19"- rack 4U or 5U.**

- **Sampling** with pre-concentration on one specific absorbent tube.
- Gas chromatograph with metallic column **and programmable temperature gradient oven up to 350°C**
- **Heated injection valve**
- **FID detector**
- **System linear**
- **No condensation part for C10 C20<sup>+</sup>**

The Vistachrom software enables the user to visualize and store data on a PC. Furthermore it provides comfortable utilities to recalculate, calibrate and export data and to set-up measurement.

The software allows the calculation of retention time, area, mass or concentration profiles.

- naphthalene (C10)<sup>1</sup>
- acenaphthylene (C12)
- acenaphthene (C12)
- fluorene (C13)
- phenanthrene (C14)
- anthracene (C14)
- fluoranthene (C16)
- pyrene (C16)
- benzo(a)anthracene (C18)
- chrysene (C18)
- benzo(a)Pyrene<sup>2</sup> (C20)
- benzo(b)fluoranthene (C20)
- benzo(k)fluoranthene (C20)
- indeno(1,2,3-cd)pyrene (C22)
- dibenzo(a,h)anthracene (C22)
- benzo(ghi)perylene (BP=500°C) (C22)

<sup>1</sup> naphthalene : Two Benzene cycle linked

<sup>2</sup> benzo(a)Pyrene : Five linked Benzene cycle linked

## Product technical specifications:

### C10/C20 analysis:

- C10 (Diethylbenzene, Naphtalene), dodecane, C14, C16, C20, C22
- Trichlorobenzene, Hexachloro, 1,3 Butadiene, Naphtalene

### Detection limit:

- Naphtalene 10 ppt or 0.05 µg/m<sup>3</sup>

### Detection range:

- 0.05 to 400 µg/m<sup>3</sup> for the Naphtalene

### 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 or 60 min (depending on application)

### Gas supply:

- H<sub>2</sub> (FID and carrier gas): 30 ml/min
- Air (FID): 180 ml/min
- Pneumatic valve 90ml/commutation

### Sample volume:

- 30 to 700 ml (programmable) in standard

### Power supply:

- Main: (230V / 115V 50 Hz/60Hz)
- Battery: 24V (option)

### Electrical consumption:

- Mean: 180 VA, peak 400 VA

### Dimensions and weight:

- Rack: 19" - (4U)
- Height: 177mm
- Width: 482mm
- Depth: 660mm
- Net weight: 20 Kg

## Options:

- MODBUS / JBUS or MGS1
- Analog output 4-20 mA or 0-10 V or alarms
- Automatic validation and calibration
- 24 V power supply
- Hydrogen and zero air generators
- Multiplexer: up to 16 streams
- Heated line
- Specific applications
- Det QMS for GCMS analysis

## To order:

airmo C10 C20<sup>+</sup> (4U)

## Model:

A10000

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

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