

Naphtalene

HAP

C20

C12

Benzo(a)Pyrene

airmoC10C20

Is able to analyze up to 16 PAH compounds or hydrocarbons
Poly Aromatic Hydrocarbon

- 1 Naphtalene (C₁₀)
- 2 Acenaphtylene
- 3 Acenaphtene
- 4 fluorene
- 5 Phenanthrene
- 6 Anthracene (C₁₄)
- 7 fluoranthene
- 8 Pyrene
- 9 Benzo(a)anthracene(C₁₈)
- 10 Chrysene
- 11 Benzo(b)fluoranthene
- 12 Benzo(k)fluoranthene
- 13 **Benzo(a)pyrene (C₂₀)**
- 14 Indeno(1,2,3-cd)pyrene
- 15 Dibenzo(a,h)anthracene
- 16 Benzo(ghi)perylene (C₁₈)
(BP=500°C)

EPA Method 610
EPA Method 8100

Naphtalene : Two linked Benzene cycle
Benzo(a)Pyrene : Five linked Benzene cycle

Environment

Urban/Non urban area pollution control
BTEX/PAMS/CE analysis
Hydrocarbons analysis
Out of plant

Process

Industrial Hygiene
Fence line

NEW applications

Wastewater,
Head space or purge and Trap:
Drinking water
INDOOR or outdoor air:
Ambient air Monitoring

**Heated line is delivered with
the instrument**

Chromatotec is specialized in VOC, sulfur and permanent gases
analysis at trace and ultra trace levels (ppm, ppb, ppt).
Feel free to visit our web site for more details:

<http://www.chromatotec.com>

Printed Matter Reference: tsp_a10_e_airmoc10c20_101206_w.doc

airmoC₁₀C₂₀

PAH included

• Principle :

The airmo C₁₀/C₂₀ uses a valve with 1 sampling trap. It also features 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 1 absorbent tube .

⇒ Gas chromatograph with 0.2 mm ID metallic column **and programmable temperature gradient oven to 300°C and pressure .**

⇒ **flow control of the carrier gas by piezo-valve (gradient).**

⇒ **FID detector**

⇒ **System linear**

⇒ **No condensation part for C10C20**

⇒ After production one week in gas before quality control. 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.

• Options :

- MODBUS / JBUS or MGS1.
- Analog output 4-20 mA or 0-10 V or alarmes.
- **Automatic validation and calibration**
- 24 V power supply.
- Hydrogen and zero air generator.
- Multiplexer : 2 to 6 streams
- **Heated line**
- Specific applications

• Technical specifications products :

C10/C20 analysis:

C10 (Diethylbenzene, Naphtalene), dodecane, C14 , C16 . , C20

Detection limit:

Naphtalene 10 ppt or 0.05 µg/m³

Detection range:

0.05 to 400 µg/m³ 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:

15 to 30 minutes

Gas supply:

H2 (FID and carrier gas):30 ml/min (inlet 2 bars; 1/16")

Air (FID): 180 ml/min (inlet 2 bars; 1/8")

Sample inlet (vacuum pump) ¼"

Sample volume:

30 to 700 mL (programmable)

Power supply:

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

- battery 24V (option)

Electrical consumption:

mean 180 VA, Peak 4000 VA

Dimensions:

- Rack 482 mm (19")

-Height 177 mm(4U), depth 600 mm (5U with computer)

Weight:

20 kg

Printed Matter Reference:

tsp_a10_e_airmoc10c20_101206_w.doc



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