

O FOR THE COLLECTION OF AEROSOLS IN THE ATMOSPHERE ON A FILTERING MEDIUM

□ <u>APPLICATIONS</u>

-Sampling of solid pollutants for the analysis of :

radioactivity, chemical analysis, analysis by weight.

- -Monitoring of the environment.
- -Monitoring of the workplace.



☐ Instrument designed to be used outdoor	s.
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- ☐ Low noise level for use inside buildings.
- ☐ In the basic version, a sampler equipped with a dual flow lateral pump.
- ☐ Electronic gas counter, temperature compensated.
- ☐ Display of both the total volume sampled and the instantaneous flow rate.
- ☐ Microcontroller management for ease of use.
- ☐ Choice of manual operation or pre-set programming for time and volume.
- ☐ Complies with draft French Standard NF M60-760.

FEATURES



ENVIRONMENTAL AEROSOL SAMPLER

FEATURES

Aeraulics:

Maximum sampling flow rate :

- pump with blue filter: 10 m³h⁻¹.
- pump with blue filter and iodine

cartridge: 6 m³.h⁻¹.

Sampling head:

The efficiency of the sampling head has been tested in a wind tunnel with dry particles of between 2 and 12 μ m and at wind speeds of 2 and 10 m.s⁻¹.

External / effective filter diameters: 53.5/47 mm

Protective cover for filter.

Volume measurement:

By electronically assisted gas counter.

Integrated temperature correction.

Gas counter resolution: 0.01 m³.

Display from 0 to 999999 m³ by increments of 1 m³.

Flow rate indication:

Deduce from the volume measurement.

Range: 2 to 17 m³.h⁻¹. Resolution: 1 m³.h⁻¹.

Display from 0 to 17 m³.h⁻¹ by increments of 1 m³.h⁻¹.

Control:

14 bit RISC micro-regulator.

Display with LCD back-lit screen.

Dialogue with 2 push buttons.

Saving of parameters and date in case of mains power failure.

Programming:

time:

Range: 1 to 9999 hours by increments of 1

hour. volume:

Range: 1 to 999999 m³ by increments of 1 m³.

Power supply:

220 V ~ single phase 50 Hz (with earth).

Power absorbed: 1 kW.

Safety features:

- General protection by use of fuses.

- Pump protected by magneto-thermal trip switch.

Temperature:

Operating temperature: 0°C to 45 °C.

Casing:

- Fibreglass and corrosion resistant stainless steel.

- Fitted with wheels, with retractable handle.

- Protection index: IP 54. (not including sampling head)

Size:

Height: 835 mm.
Width: 430 mm.
Depth: 610 mm.

Weight: 40 kg.

ADDITIONAL OPTIONS

☐ Vacuum pump as a replacement for the pump provided as standard.

Filters with high pressure drop can be used with a vacuum pump.

An integrated valve enables the sampling flow to be adjusted.

□ Filters

The following filters can be supplied:

blue, yellow and pink fibrous filters; membrane filters with a porosity of 1,2

AW 19 pre-filter.

☐ Active carbon cartridge

For trapping of **iodine**.

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