



AMS[®]
Analitica
Air Monitoring Systems

ENVIRONMENTAL **MONITORING**
2017

High volume sampler dedicated to PM2.5 particles with a suction flow of 500 litres/minute in compliance with norm UNI-EN 14907 (reference sampler).

- Volumetric flow control in compliance with ISO-5167
- Complete management of sampling phases from the microprocessor with standard deviation control and visualisation
- Connection with weather sensors dedicated to the detection of wind speed and direction for sector sampling (sensors not included) and optional Rain and Umidity sensor
- GSM/GPRS remote data management (Optional)
- External shelter manufacture entirely in non-corrosive anodised aluminium
- Detection of ambient temperature and atmospheric barometer pressure
- Flow indicator: Digital on plasma display
- Programming: sampling cycles via electronic main board
- Plasma HD back-lit graphics display
- Bidirectional RS 232
- USB port for transfer data and easy upgrade on instrument firmware
- Automatic Re-Start in the event of a loss of voltage with memorisation of sampling periods and stopped time display
- Back pressure control by graphics display



The Air Flow PM-HVS high volume sampling line includes an instrument thoroughly compliant with requirements of norm UNI-EN 14907 for sampling of PM2.5 particles.



This system is equipped with an electronic flow control with a Venturi system in accordance with norm ISO 5167 for the measurement of flow rate with a differential pressure devices and the detection of pressure on 4 sector points for maximum result accuracy and reliability.

The new impactor models have been manufactured in full respect of features published in reference norms regarding impactor for PM2.5 dust particle fractionation, with the option of simple adaptor kits for inter-changing between one sampler and another for extremely easy, versatile use.

All sampling phase settings are programmable from electronic programming microprocessor and sampling can be set by time, volume, cyclical sampling, sampling by quadrant sector. All reported data is memorised and transferred to the PC or optional local printer, with a choice of GSM/GPRS remote control (optional). Thanks to the new microprocessor system, all data corresponding to set values and to sampling values beyond the graphic flow control progression can be viewed to guarantee proper sampling.

Technical Specifications

External sampler shelter	Non-corrosive anodised aluminium
Insulation Class	IP55
Sampling Flow	200-1300 litres/ minute
Filter type	150mm circular
Flow control	With Venturi ISO 5167 device
Suction pump	Blowing in three magnetic induction stages
Power	220 Volt/50 Hz
Absorption (Ampere)	15 at start / 4 during operating phases
Dimensions	120x37x37 cm (HxLxW)
Weight	14.0 Kg
CE	Compliance for electric and electromagnetic safety
Port	RS232 and USB for easy data transfer

Airflow PM-HVS samplers can also be installed on non-smooth surfaces thanks to the adaptable resting structure with an anti-slip rubber ball joint.

Expandability

A weather sensor unit can be combined with the sampler to simultaneously detect wind speed and direction. This option allows for sampling to be carried out in source quadrant sectors to therefore dedicate sampling exclusively in involved sectors. The start of sampling will depend on wind direction and speed, with start parameters directly set by the user.



Adapter Kit

This system's true innovation lies in its ability to interchange preselectors thanks to adapter kits. These supports allow for easy adaptability and rapid re-connection of the sampler itself. The accurate flow control system ensures precise sampler regulation in all configurations. Impactors and inlets can be adapted for pre-existing Air Flow-Pur sampler dusts. Air Flow PM-HVS samplers can be modified in TSP samplers with a filter holder support with a 150mm and 8x10 squared filter, and it is also possible to insert a purified polyurethane foam support in line with the PM2.5 dust sampler for simultaneous sampling of PM2.5 and IPA as per directive 107/2004.

Airflow HVS samplers are supplied complete with a power cable, instruction manual in Italian, adjustable support for uneven surfaces, control compartment lock and NMI certified standard means flow control certification. Software for transferring data memorised on the board and for later processing is also included in supply.

How to order	
600/AFPM2501K	Airflow HVS sampler equipped with PM1 impactor
600/GRMET001K	Weather sensor unit with assembly kit
600/AFPM011001HK	PM1 HVS pre selector 500l/min
600/AFPUF1001GSM	GSM Interface Module
600/AFPM101001HK-A1	Nozzles plate for PM10/500 litres/minute sampling
600/ADPT004ENDHVS	90mm PUF containing cartridge support
FAN/MFQ150	150mm Quartz Membrane, box 25pcs
NFS/GF1-150-100	150mm Fibreglass Membrane, box 100pcs

IMPACTOR FOR HIGH VOLUME PM1 DUSTS 600/AFPM2501K

Two-stage new impactor for PM1 dusts sampling through Airflow HVS high volume sampler:

- Sampling flow: 500 l/min
- particle pre selection through impactor PM2,5
- easy to disassemble for proper maintenance and cleaning
- manufactured entirely in anti-corrosion anodized aluminum
- equipped with thimble holder with temperature monitoring
- 150 mm filters



AMS Analitica introduces a new impactor for Airflow HVS high volume sampler series, capable of isolating particles with aerodynamic diameter equal to or smaller than PM1. The impactor features a second impactor for PM2,5 dusts and works through a progressive separating system. This option eliminates the risk of particles overload on a single impact layer and ensure better sampling performances. The nozzles diameter was calculated on the ratio between the impact speed and the distance of the impactor surface. The PM1 impactor may be equipped and supplied with a 150 mm filter holder connected at the PM2,5 HVS adapter inlet.



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