

HiVol 3000

HIGH VOLUME AIR SAMPLER

The HiVol 3000 particulate sampler performs remote unattended sampling of $PM_{2.5}$, PM_{10} or TSP along with basic meteorological parameters.

The HiVol 3000 incorporates advanced programming functions and electronic volumetric flow control to maintain a consistent flow and collect a truly representative sample of particulate matter.

Optional attachments allow the sampler to measure wind speed and direction which can then be used to trigger sector selectable sampling (e.g. fence-line monitoring).

Approvals

- U.S. EPA Manual Reference Method: RFPS-0706-162 approval for PM₁₀
- Meets Australian standard for PM₁₀ and TSP monitoring.
- Only high volume air sampler with CE and C-tick approval.
- Manufactured under ISO9001 and ISO14001.



Reliable sampling

- Volumetric flow control automatically corrected to standard reference temperature.
- Programmable reference temperatures.
- Industrial brushless motor (100 000 hours continuous field operation).
- Weather-proof marine quality anodised aluminium cabinet.
- Automatic supply voltage monitoring and shutdown facility reduces damage to instrument.

Directional sampling

- Wind direction and speed used to activate/deactivate sampler.
- External trigger (0-5VDC) can be used for activating sampling program.

Enhanced communication

- RS232 output for data collection and remote communication.
- Filter blocked and instrument error alarms.
- Total control of instrument remotely from PC.
- Simple programming of sampling periods, including daily and weekly programs, with in built '1-in-X day' sampling capability.



SPECIFICATIONS

Operation: Microprocessor controlled (internal data logging)

Pump/Motor: Side channel blower driven by an induction motor (brushless)

Flow controller: Variable frequency drive

Volumetric flow range: Nominal 45-96 m³/hr

Vacuum capability: 140 mBar max

Flow accuracy: Better than +/- 1m³/hr

Flow repeatability: +/- 1 % of reading

Construction: Anodised aluminium and Stainless steel fasteners

Filter size: 250 x 200 mm rectangular element

Dimensions: 380 mm (W) x 380mm (D) x 1200mm (H) plus inlet

Weight: 45 kg plus inlet weight

Operating voltage: 200-240V + 10% 50/60 Hz (optional 115V 60Hz)

Power Consumption: 1500 VA Max (depending on filter loading & flow rate)

Temp measur. range: 0-50 °C

Barometric pressure: 600-900 mmHg +/- 4mmHg

Communications/Data logging

No. of readings: 150 (averaging period is user selectable, for example 75 hours of 30 min averages

External inputs: 1 x wind direction sensor input (10k potentiometer)

1 x wind speed sensor input (contact closure) or,

1 x spare contact closure input (eg. Tipping bucket rain gauge)

Output: RS232C

OPTIONS

- PM₁₀, PM₂₅ or TSP size selective inlets
- Calibration plate and field calibration transport case
- Manometer
- WS/WD sensors
- RH Sensor
- Muffler

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