

HiVol 3000 PUF

HIGH VOLUME PUF SAMPLER

The HiVol 3000 PUF Sampler provides a flexible platform for sampling organic compounds and monitoring basic meteorological parameters.

The PUF utilises poly-urethane foam (PUF) to collect particulate matter and store it in a sterile environment for later analysis.

The HiVol 3000 PUF unit is a reliable, durable and proven sampler using volumetric flow control to maintain 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).



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

Reliable sampling

- Volumetric flow control automatically corrected to standard reference temperature.
- Industrial brushless motor (100 000 hours continuous field operation).
- Weather-proof marine quality anodised aluminium cabinet.
- Automatic supply voltage monitoring and shut-down 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

Microprocessor controlled (internal data logging) Operation:

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

Flow controller: Variable frequency drive

Volumetric flow range: Nominal 10-20 m³/hr

Vacuum capability: 175 mBar max

Better than +/- 0.2 m³/hr Flow accuracy:

Flow repeatability: +/- 5 % of reading

Construction: Anodised aluminium and Stainless steel fasteners

Filter size: 100mm diameter filter

Replaceable PUF glass cartridge element

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

Weight: 45kg 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

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

Communications/Data logging

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

- · Calibration plate
- Field calibration transport case
- Manometer
- WS/WD sensors
- RH Sensor
- Muffler

For your local certified distributor visit:

AMERICAN ECOTECH T (877) 247-0403 F (401-537-9166) E info@americanecotech.com W www.americanecotech.com



