ecotech
environmental monitoring solutions

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/de-activate 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 10-20 m^3/hr
Vacuum capability:	175 mBar max
Flow accuracy:	Better than +/- 0.2 m^3/hr
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
Barometric pressure:	600-900 mmHg +/- 4mmHg

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

NATA
WORLD RECOGNISED ACCREDITATION
Accredited for compliance with ISO/IEC 17025

For your local certified distributor visit:
www.ecotech.com/distributors

Ecotech Pty Ltd
T (Australia) 1300 364 946 **T** (International) +61 3 9730 7800
E info@ecotech.com **W** www.ecotech.com

bsi. ISO 9001 Quality Management
AS/NZS 4801 Occupational Health & Safety Management