

HiVol 3000 XAD

HIGH VOLUME XAD SAMPLER

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

The XAD Sampler collects a wider variety of compounds (than a PUF sampler) on a hydrophobic polyaromatic resin (XAD).

The HiVol 3000 XAD unit is a reliable, durable and proven sampler using volumetric flow control to maintain consistent flow and collect a truly representative sample.

Optional attachments allow the sampler to measure wind speed and direction which can then be used as triggers to capture other meteorological parameters.

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 (0-5 VDC) 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:	325 mBar max
Flow accuracy:	Better than ± 0.2 m ³ /hr
Flow repeatability:	± 5 % of reading
Construction:	Anodised aluminium & stainless steel fasteners
Filter size:	100mm diameter filter Replaceable XAD glass cartridge element
Dimensions:	380 mm (W) x 380 mm (D) x 1200 mm (H) plus inlet
Weight:	45 kg plus inlet weight
Operating voltage:	200 - 240 V + 10 % 50 / 60 Hz
Power consumption:	1500 VA Max (depending on filter loading & flow rate)
Temp measurement range:	0 - 45 °C
Barometric pressure:	600 - 900 mmHg ± 4 mmHg

COMMUNICATION & DATA LOGGING

Number of readings

- 150 (averaging period is user selectable, e.g. 75 hours of 30 min averages)

External inputs

- 1 x wind direction sensor input (10k potentiometer)
- 1 x wind speed sensor input (contact closure)
- 1 x spare contact closure input (e.g. tipping bucket rain gauge).

Output

- RS232C

OPTIONS

- Calibration plate
- Field calibration transport case
- Manometer
- WS/WD sensors
- Muffler.

