

## HiVol 3000 XAD

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### 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 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 (0-5VDC) 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.
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## SPECIFICATIONS

<b>Operation:</b>	Microprocessor controlled (internal data logging)
<b>Pump/Motor:</b>	Side channel blower driven by an induction motor (brushless)
<b>Flow controller:</b>	Variable frequency drive
<b>Volumetric flow range:</b>	Nominal 10-20 m <sup>3</sup> /hr
<b>Vacuum capability:</b>	325 mBar max
<b>Flow accuracy:</b>	Better than +/- 0.2 m <sup>3</sup> /hr
<b>Flow repeatability:</b>	+/- 5 % of reading
<b>Construction:</b>	Anodised aluminium and Stainless steel fasteners
<b>Filter size:</b>	100mm diameter filter Replaceable XAD glass cartridge element
<b>Dimensions:</b>	380mm (W) x 380mm (D) x 1200mm (H) plus inlet
<b>Weight:</b>	45kg plus inlet weight
<b>Operating voltage:</b>	200-240V + 10% 50/60 Hz (optional 115V 60Hz)
<b>Power Consumption:</b>	1500 VA Max (depending on filter loading & flow rate)
<b>Temp measur. range:</b>	0-50°C
<b>Barometric pressure:</b>	600-900 mmHg +/- 4mmHg

### Communications/Data logging

<b>No. of readings:</b>	150 (averaging period is user selectable, for example 75 hours of 30min averages)
<b>External inputs:</b>	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)
<b>Output:</b>	RS232C

## OPTIONS

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

**For your local certified distributor visit:**

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