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environmental monitoring solutions

HiVol 3000 MegaVol

HIGH VOLUME SAMPLER

The MegaVol 3000 particulate sampler performs remote unattended sampling of particulates and is ideal for heavy metal and radiation exposure monitoring.

The MegaVol is capable of a very high flow rate (120-150m3/hr) the increased flow rate allows representative particulate samples to be collected in shorter time periods (more samples collected per week) or to collect a larger quantity in the same time period (especially for trace levels) than a standard TSP sampler.

The MegaVol is therefore ideally suited for sampling particulates that make up a small percentage of the total sample (heavy metals, radioactive particulates etc.) and provides laboratories with sufficient material to perform quantitative and qualitative analysis.

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 sampler software can also double as a remotely accessible data logger for simple weather monitoring (wind speed and direction, temperature, humidity and rainfall).

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 prevents 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 block 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 120-150 m^3/hr
Vacuum capability:	130 mBar max
Flow accuracy:	Better than +/- 2 m^3/hr
Flow repeatability:	+/- 1 % of reading
Construction:	Anodised aluminium and Stainless steel fasteners
Dimensions:	456mm (W) x 456mm (D) x 1480mm (H) including TSP inlet
Weight:	65kg plus inlet weight
Operating voltage:	200-240V + 10% 50/60 Hz (optional 115V 60Hz)
Power useage:	3500VA nominal (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

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