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HIVOL

Specification Sheet

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This design provides many significant advantages over other units, including;

- Constant air flow - maintained well within 1% of the preset flow rate in conditions ranging from clean filter to more than 80% blockage.
- True mass-flow sensor - no need for temperature and pressure corrections.
- Low energy consumption - because motor load is determined by the filter load and not by mechanical restrictions.
- Low wear and long life because of low load - the vacuum pump has been proven in power stations at full load around the clock for many years. The absence of other mechanical or moving parts eliminates problems found in some products.
- Low noise, quiet running - does not attract attention or annoy neighbours.
- Soft start drives - ensuring the start current demand is kept at a very low level.
- User-friendly filter collection and replacement - no more struggling with fragile tissue on-site in bad weather. The unique removable filter support and transport cover allows filter loading and recovery in a protected laboratory environment without risk of losing the sample.
- Secure casing - preventing dust and water ingress while permitting easy access for service.

The Flow-Set incorporates Andersen's well-proven PM10 and PM2.5 Heads allowing it to sample a variety of particle sizes. The heads have been wind tunnel tested to ensure accurate cut points.

Flow-Set High Volume Air Samplers Specifications

Air Intake	Uniform, 58,000mm ² nominal air intake
Power Input:	240V, 50Hz, Single Phase
Start Current:	Switching Transient up to 5.0amp. Ramp up current 4 amp
Vacuum Pump/Motor:	Siemens Elmo-G, Three Phase, 60Hz Rated at 1.3kW
Motor Drive:	Variable Frequency, Soft Start
Flow Control:	Mass Flow Sensor and PID Controller (Unaffected by variation in the ambient air temperature and pressure)
Flow Control Precision:	Better than 1 SCM ³ /H from clean filter to 75% blocked filter, at 70 SCM ³ /H
Noise Profile:	(when running at 70 SCM ³ /H with clean filter and silencer) At 1 meter = 50dba At 2 meters = 44dba At 4 meters = 38dba At 6 meters = 35dba At 8 meters = 32dba

STANDARD CONTROL

Event Timer:	7 day, Programmable
Hour Run Clock:	240V Synchronous
Filter Support	230 x 280mm (removable) (2 off, one with transport cover supplied as standard)

OPTIONAL CONTROL

Programmable Controller with Data Logging and Interface for Remote Control, Meteorological Instruments and Real Time Dust Monitors

Filter Size:	20.3 x 25.4cm (8 x 10 inch) (Nominal)
Cabinet Dimensions:	400 x 340 x 1050mm High
TSP Head Dimensions:	450 x 450mm square
PM10 Head Dimensions:	710mm Diameter + 500mm Height Increase to overall Height
Overall Height:	1140mm Nominal
Weight:	47kg
Temp Range:	-10C to +50C
Flow Setting Range:	20 - 100 SCM ³ /H
Flow Indication Range:	20 - 100 SCM ³ /H
Complies with:	AS 2724-3-1984 Section 4