



TES Flow Choice High Volume
Air Sampler PM10

TES FLOW CHOICE HIGH VOLUME AIR SAMPLER

your only choice for accurate, reliable, user friendly
Gravimetric Air Sampling

The Thomson Environmental Systems Flow Choice High Volume Air Sampler utilise a precise and versatile, venturi sampling system featuring electronic flow control, and meets the most recent international methods for atmospheric particulate matter measurement.

Available configurations include: Total Suspended Particulates (TSP), PM10 and PM2.5.

Each instrument includes a speed controlled brushless blower for accurate, quiet operation and 2 filter holders for easy exchange in the field.

An integrated real time clock, wide graphic display and dedicated keypad allows for user friendly sample programming. The user can select from automatic 3 and 6 day runs or create their own program selectable from 1 min to 168 hours.

The microprocessor controlled system allows for measurement of ambient and orifice flow temperatures, ambient and venturi pressures and allows true mass or volumetric flow standardized to a user selectable reference temperature.

Measured parameters are logged every five seconds and recorded as five minute averages for the 24 hour run period. Run time, averages flow and standard deviation are just some of the obtainable results from the Flow Choice allowing the user to validate the sample run. Data is accessible on the display and can be downloaded to a PC via RS232 or Modem (optional).

The TES flow choice offers the following features:

- ✓ TSP, PM10 or PM2.5 Configurations
- ✓ Easy Programming - Automatic 3 or 6 day runs or user selectable programs
- ✓ Quality Assurance System - Flow rate, total volume, temperature and pressure are logged and data is available for download to your PC
- ✓ Brushless Blower - Provides accurate flow and quiet operation
- ✓ Remote Control via Modem (optional)
- ✓ Meets Australian Standards



Portable Calibration Kit

OUTSTANDING QUALITY, UNPRECEDENTED CUSTOMER SUPPORT

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Flow Choice High Volume Air Sampler Specifications

Measured parameters:

- Flow rate (standard and actual condition)
- Total volume (standard and actual condition)
- Ambient temperature
- Ambient pressure
- Pressure drop on the filter

Conditions measured every 5 seconds & condensed to 5 minute log files.

Data Memory: More than 30 sampling reports can be saved, and are accessible through the display or by download to a PC via RS232 or modem (optional).

Electronic sampling flow rate controlled at standard or actual condition

Sample time programming: Resolution 1 minute, selectable from 1 min. to 168h. Automatic 3 or 6 day runs.

Wide retrofitted light graphic display, dedicated keypad, real time clock and date

Construction material: Anodized aluminium shelter (other materials available if required)

Brushless blower: Speed controlled to limit noise and provide extremely accurate flow control

Flow Range: 1000-1400 L/min

Flow Stability: $\pm 1\%$ of set flow rate

Power Requirements: 220-240 Vac, 50Hz (110 Vac 50/60 Hz Optional), 15amp

Allowable environmental temperature operating range: 0-50C

Weight 42 kgs. Plus Inlet head.

Dimension 62cm x 43cm x 110cm (WxDxH) for TSP unit.

Detachable base. Inlet head easily attached on site.

Supplied with dual filter cassettes to allow rotating of cartridge with filter changes in lab

Warranty: 12 Month

Ordering Options:

Inlet Head: TSP
PM10
PM2.5
Power Requirements: 240V
110V

Optional Accessories:

- Calibration Kit Including: Orifice plate, slack tube manometer and carry case
- Remote control via Modem GSM
- Muffler for further noise reduction
- Filter Papers (200mm x 250mm)
- Calibration Contracts (conducted by qualified Technician)

Also Supplied by Thomson Environmental Systems:

- ✓ Ambient Gas & Particulate Monitors
- ✓ Meteorological Equipment
- ✓ IH and IAQ Equipment
- ✓ Reach-In and Walk-In Equipment Shelters
- ✓ Process Stack Gas, Particulate & Velocity Systems
- ✓ System Design, Installation & Commissioning
- ✓ Parts & Service performed by Factory Trained Technicians
- ✓ Rental Equipment

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