

FINE PARTICULATE SAMPLER VBI-251

Vayu Bodhak Fine Particulate Sampler 251 is standard instrument to monitor PM2.5 in Ambient Air. It utilizes the Impactor design standardized by US EPA. It can also be used for PM10 monitoring removing the PM2.5 Impactor. It also has provision for simultaneous sampling of gaseous pollutants using the gaseous attachment. In this air sample is passed through suitable chemical reagents that absorbs the gaseous pollutants like SO₂, NO_x, etc, which can be further analyzed by wet chemistry method to determine the concentration of gaseous pollutants.



Silent Features

- Specially designed PM10 and PM2.5 Impactors based on US EPA standard designs
- Separate Modular cabinets for Vacuum pump and Impactor to maintain filter temperature close to ambient temperature
- Imported Vacuum Pump with a low noise
- Critical Orifice maintains constant sampling rate of 1 m³/hour
- Light Weight and portable, 2 Cabinet Design
- Rugged Design, Long operational life with smooth functioning.
- Particle Collection on 47mm diameter GFA Filter Membrane.

VBI 251 Standard Instrument Specifications

- **Flow Rate:** Constant sampling rate of 1 m³/hr unaffected by voltage fluctuation and filter choking maintained by critical orifice system
- **Vacuum Pump:** Oil Free, non-pulsating pump driven by induction motor for stable flow rate
- **Power requirement:** Nominal 220 V, Single Phase, 50Hz AC mains supply. For proper operation and safety a good earth connection is mandatory
- **Size Selective inlets:** Omni-directional air inlet with PM 10 separation through an impactor followed by PM 2.5 separation through a WINS Impactor
- **Sample Volume:** Dry Gas meter records the total air volume sampled
- **Filter Holder :** Filter holder designed to accept any standard 47 mm diameter filter media
- **Particle Size:** PM10 & PM2.5 particles are collected on separate 47mm diameter GFA Filter membrane.
- **Sampling Time Record:** 0 to 9999.99 hrs on Time Totalizer
- **Power Supply:** Single Phase 220V, 50 Hz AC power supply.
- **Warranty:** One Year Manufacturer Warranty

(Optional) Gaseous attachment Specifications:

- Flow rate of 0 to 3 LPM displayed on a Rotameter.
- 4 Impingers of 35ml each for simultaneous monitoring of multiple parameters.
- Four inlet and one outlet manifold with built in flow control of each inlet.

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