

FINE PARTICULATE SAMPLER VBI-251 MINI

Vayu Bodhak Fine Particulate Sampler 251 MINI is standard instrument to monitor PM_{2.5} in Ambient Air. It utilizes the Impactor design standardized by US EPA. It can also be used for PM₁₀ monitoring removing the PM_{2.5} 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 PM_{2.5} Impactors based on US EPA standard designs
- Imported Vacuum Pump with a low noise
- Critical Orifice maintains constant sampling rate of 1 m³/hour
- Light Weight and portable
- Rugged Design, Long operational life with smooth functioning.
- Particle Collection on 47mm diameter GFA Filter Membrane.

VBI 251 MINI 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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