



**New Star
Environmental LLC**

"Providing Instrumentation for Air Quality"

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PM2.5 High Volume Air Samplers

Retrofitting a PM10 high volume air sampler allows for characterization of PM2.5 with existing methodologies.

Ambient air enters the PM2.5 Inlet at a flow rate of 40 cfm (1.13 m³/min) through an opening under the weather-proof hood. The air then flows into a stilling chamber and through a screen that is designed to prevent the entry of insects and large-sized airborne debris into the fractionating system. From the stilling chamber the air flows through a set of 40 impactor jets that direct air towards a wetted collection surface. Particles with sizes larger than 2.5 microns aerodynamic diameter impact upon a porous disc wetted with oil. Particles smaller than 2.5 microns are vented from the impaction zone and flow downward to the standard 8 x 10-inch (20.3 x 25.4cm) hi-vol sampling filter.

FEATURES

- Retrofit an existing high volume air sampler at only a fraction of the cost of a new PM2.5 system
- Existing quality assurance procedures used for PM10 hi-vol sampling are virtually unchanged for PM2.5 sampling
- Simple flow measurement & control with a critical flow venturi (volumetric flow controller) determines flow rate directly in actual m³/min

LINK TO RELATED PRODUCTS

- [Hi-Vol Filter Media](#)