



HVVI™

A High Volume Virtual Impactor for PM2.5/ PM1.0 Particle Classification



Model 340 HVVI™

The Model 340 HVVI™ is a high-flow virtual impactor classifier. The HVVI has 20 parallel nozzles to achieve a high volumetric flow rate at low-pressure drop as well as a compact overall design. The HVVI has a cut-point of 2.5 or 1.0 μm in equivalent aerodynamic diameter and can be used for inertial separation of coarse particles from fine particles for a variety of applications. The HVVI can be installed on a conventional High Volume Sampler.

Applications

- Air pollution studies
- Air quality studies
- Source apportionment studies
- Separates coarse atmospheric dust from wood smoke, diesel and automotive exhaust, combustion aerosols, or photochemical smog
- Concentrate particles for the study of allergens or fugitive dusts

Features

- Particle classification/separation by virtual impaction
- 2.5 or 1.0 μm cut-point diameter
- 1132 L/min
- Patented multiple nozzle design
- Low pressure drop
- Concentrates particles larger than 2.5 or 1.0 μm into 5% of the total sampling flow
- Collects particles larger than 2.5 or 1.0 μm on one filter
- Collects particles smaller than 2.5 or 1.0 μm on another filter

Specifications

- Cut-point diameters: 2.5 or 1.0 μm
- Sampling flow rate: 1132 L/min-total flow
1075 L/min-major flow
57 L/min-minor flow
- Pressure drop: 16.9 KPa-major flow
4.8 KPa-minor flow
@ 2.5 μm
- Dimensions: 212 x 166 x 70 mm
- Weight: 5 kg

**PM2.5/PM1.0 PARTICLE
CLASSIFIER**

**HIGH VOLUME VIRTUAL
IMPACTOR**