



UAS™

A Universal Air Sampler™ for PM2.5/PM1.0 and PM10 Sampling at 300L/min with PUF Sampler and Optional Diffusion Denuder



Model 310 UAS™

The Model 310 UAS™ is a general-purpose air sampler for airborne particles. Air is sampled at 300 L/min through an omni-directional, cylindrical inlet. Particles larger than 10 µm are separated by a virtual impactor and are discarded. Particles then pass through a 2.5 or 1.0 µm virtual impactor. Particles in the ranges of 2.5-10 µm or 1.0-10 µm are collected on the first filter while particles smaller than 2.5 µm are collected on the second filter. The collected particles can then be analyzed for mass or specific chemical species. Located downstream of the final filter is a holder where a standard PUF sampler can be used to collect volatile organic compounds. An optional diffusion denuder can also be inserted after the PM2.5 or PM1.0 virtual impactor to separate the gaseous pollutants from the aerosol particles.

**PM2.5 OR PM10 SAMPLING AT
300 L/MIN**

Features

- A 300 L/min airborne particle sampler
- Patented virtual impactor technology for PM2.5 and PM10 size separation
- Modular construction to permit PM2.5, and PM10 sampling
- PUF sampler for volatile organic compounds
- Optional diffusion denuder sampler
- Directly coupled AC blower for trouble free and maintenance free operation
- Programmable solid-state timer for start and stop functions

Applications

- PM10 and PM2.5 sampling for mass, organic and inorganic analysis
- Gas phase sampling for VOC and gas/particle separation
- Air pollution and air quality studies
- Source apportionment and pollution impact studies

Specifications

- Scalper cut-point: 10 µm
- Cut-point: 2.5 or 1.0 µm
- Sampling rate: 300 L/min
- Dimensions: 762 x 406 x 1422 mm
- Weight: 43 kg
- Power: 115VAC, 60Hz, 10A
230VAC, 50 HZ, 5A

**DESIGNED FOR AIR POLLUTION
AND AIR QUALITY STUDIES**