

The Aeroexplorer Sampling Station: Single Inlet System

The Aeroexplorer sampling station is a versatile instrument for collecting particulate matter on filters for later analysis. Particulates can be collected in two sizes typically PM2.5 and PM10 on up to 8 filters on a user programmable scheduled. The instrument has data ports which can be used to communicate with external instruments such as a weather station to enable collection by wind direction or coordination with our nephelometers.



*Aeroexplorer Single Inlet
Sampling Station*

Inlet-box specifications

- Box dimensions: 12.5" x 15" x 9"
- Weight: 6 kg
- Installed height: 40" but varies per configuration
- Control box option: SS5e, SS5e7-1
- Holds FC10, 8-slot filter cartridge
- Flow rate: 1.5-7 lpm, set to control particle size
- Inlet size cut-off options: PM10, PM4, P2.5, or PM1

Advantages

Autonomous particle sampling. Pump turns on/off and sampling advances to next filter slot, automatically, as function of minutes, hours or days. All directed by operator-initiated programs, input with intuitive button controls or script command uploads.

Control-box specifications

- Box dimensions: 12.5" x 18" x 9"
- Weight: 5.3 kg
- Compatible options: SS5i, SS5i-PMx
- Max flow rate: around 7 lpm standard
- Power inputs: 110/220 VAC 50/60Hz
- Auxiliary power input: nominal 12VDC.
- Solar power compatible.
- User sets sampling protocols with intuitive button commands.
- Controls on/off pump and advance to next filter slot as function of minutes, hours or days.
- Data stored on removable memory cards with automatic backups.