



PEM™ - PERSONAL ENVIRONMENTAL MONITOR



A Personal Sampler for PM2.5 or PM10 Particles at 2, 4, or 10 Liters per Minute Sampling Flow Rate

Model 200

FEATURES

- Lightweight, personal Sampler with single stage impactor and final filter
- Impactor cut-point of 2.5 or 10 µm
- Can be operated with a personal sampling pump

APPLICATIONS

- Personal PM2.5 or PM10 sampling for exposure assessment
- Indoor/outdoor air pollution studies
- Indoor/outdoor air quality assessment
- Personal sampling for industrial hygiene applications

DESCRIPTION

The Model 200 Personal Environment Monitor is a lightweight personal sampler for collecting airborne particles in the PM2.5 and PM10 size ranges. PM2.5 and PM10 particles are airborne particles less than 2.5 µm and 10 µm, respectively. These classes of particles are widely used in indoor/outdoor pollution studies to assess the potential health effects of airborne particles. The sample air enters the Model 200 through a multi-nozzle, single-stage impactor to remove particles above 2.5 µm or 10 µm, respectively. Particles smaller than the cut size are then collected on a 37mm filter of choice. The collected particles can be analyzed gravimetrically to determine the particle mass or for specific chemical compounds.

SPECIFICATIONS

Part Number	Inlet Flow (LPM)	Cut Point (µm)	Color	Pressure Drop* (inwg)
PEM-2-2.5	2.0	2.5	Blue	1
PEM-4-2.5	4.0	2.5	Black	3
PEM-10-2.5	10.0	2.5	Red	13
PEM-2-10	2.0	10.0	Green	1
PEM-4-10	4.0	10.0	Outside Gold	2
PEM-10-10	10.0	10.0	Inside Gold	12

*Vacuum at hosebarb with glass fiber filter in place

Filter Diameter: 37mm
 Dimensions: 60 x 65 x 22mm
 Weight: 48g (1.7oz)

ACCESSORIES/REPLACEMENT PARTS

- PEM-002 Flow Calibration Cap
- PEM-004 Clamping Fixture Assembly
- PEM-009c Stainless Steel Filter Support
- PEM-009a Spanner Screws