



PRODUCT INFORMATION

Model 200—Personal Environmental Monitor™ (PEM™)

Personal samplers for PM2.5 and PM10 particle sampling at 2, 4, and 10 L/min sampling flow rate



DESCRIPTION

The Model 200 Personal Environmental 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. They are frequently used to provide a measure of airborne particle concentration for studying potential health effects of airborne particles in the indoor or outdoor environment.

The aerosol sample enters the Model 200 through a multi-nozzle, single-stage impactor to remove particles with aerodynamic equivalent diameter larger than 2.5 µm or 10 µm in diameter. Particles smaller than the impactor cut-size are collected on a 37mm diameter filter of choice. The collected particles can be analyzed gravimetrically to determine the airborne particle mass or analyzed for specific chemical compounds.

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

SPECIFICATIONS

Subject to change without notice

Model Number	Flow Rate (L/min)	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 measured at hose-barb with glass fiber filter in place

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

ACCESSORIES/REPLACEMENT PARTS

PEM-002	Flow calibration cap
PEM-004	Clamping fixture assembly
PEM-009c	Stainless steel filter support
PEM-009a	Spanner screws

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