

E-FRM Particulate Sampler

The MetOne Instruments, Inc. E-FRM is a single channel particulate sampler approved as a US-EPA reference method for PM_{2.5}, PM₁₀ and PM_{10-2.5}. Configured with an alternate PM_{2.5} cyclone, the E-FRM may also be operated as a US-EPA designated equivalent method for PM_{2.5}.

For ease of shipping, the E-FRM is nested in a compact package. When installed, the package expands to normal sampling height, with sampler on top, separate pump box below within the work frame.

The E-FRM sampler is also designed for easy setup and deployment. This allows it to be used for either permanent long-term sampling at a fixed site or as an audit sampler for frequent relocation.



Applications:

- Criteria PM Sampling
- Audit Sampling
- Remote Sampling Applications
- Health Studies
- Perimeter Sampling
- Regulatory Enforcement

Method	Sampling of ambient air onto filter media
Measurement Principle	Programmable single-event filter sampler for ambient particulate concentrations by gravimetric laboratory analysis.
Design Specifications U.S. EPA Designations	Title 40 CFR, Part 50 Appendix L. PM _{2.5} RFPS-0315-221 (VSCC or WINS) PM _{2.5} EQPS-0316-235 (URG) PM ₁₀ REPS-0216-231 PM _{10-2.5} RFPS-0316-232
Vacuum Pump	Dual-head diaphragm AC pump standard (specify voltage)
Compatible Software	FRM Comm
User Interface	Extended temperature 8x40 character LCD display with dynamic keypad.
Enclosure Type	Active fan ventilation with solar shield and separate pump enclosure.
Deployed Dimensions	2.0 meters (77") high, 42 cm (16.5") wide 53 cm (20.75") deep.
Stowed Dimensions	105 cm (41") high, 42 cm (16.5") wide 53 cm (20.75") deep.
Weight	Complete System : 29 kg (69 lbs.) Removable pump box: 12.7 kg (28 lbs.)
Power	110-120VAC, 60HZ 220-230VAC, 50/60HZ

Specifications are subject to change at any time.

