

# Model *PM10L*

## Louvered EPA Pattern PM<sub>10</sub> Inlet

### EPA Specified PM<sub>10</sub> Inlet for Ambient Air Particulate Samplers and Monitors

Alaric Model PM10L is a high quality production of the well-characterized louvered EPA PM<sub>10</sub> 10-micron inlet as specified by US federal regulations. It is suitable for use on 16.67 L/min PM<sub>10</sub> particulate samplers that are designed for the standard EPA pattern inlet, or for use as a pre-separator for cyclones or WINS impactors used in PM<sub>2.5</sub> samplers and some equivalent method continuous monitors.

Our many years of experience with inlets and refined manufacturing techniques allow us to produce and supply PM<sub>10</sub> inlets at a sensible cost, while meeting or exceeding all quality standards and specifications. This makes Model PM10L a great choice as a replacement inlet, or as an OEM item for ambient particulate instrument manufacturers.

Water, debris, and airborne particles larger than 10 microns in size are retained in the particle trap and excluded from the sample air flow path, while smaller particles pass through to the sampling instrument or subsequent separator stages. The design is fully tested and characterized by the EPA for cut point, airflow, wind, and water exclusion characteristics. In addition to all of the standard specifications, Alaric Model PM10L also includes several unique features and improvements:



- Knurled aluminum body surfaces above and below the threaded particle trap joint facilitate easy opening, even in wet or cold conditions or when wearing gloves.
- Dual o-ring seals at the particle trap joint. Each inlet includes an extra set of spare o-rings.
- Thumb screws in the bottom of the louvered plate stack facilitate easy disassembly of the entire upper section for field cleaning without tools.
- Improved specification Type 2+ anodizing on the spun aluminum surfaces reduces corrosion problems commonly encountered in coastal environments.
- Improved bottom socket outer profile provides an optional set screw location for more secure retention to the inlet tube in windy locations.
- Laser etched serial numbers will not degrade in sunlight.
- Fits instruments that use standard 1.246 inch outer diameter inlet tubes and a 16.67 L/min (1.0 m<sup>3</sup>/hr) airflow rate.
- Available with our shatterproof UV resistant acrylic water collectors which eliminate ice bursting problems, or with classic 200 mL or 475 mL glass water collection jars.
- Meets or exceeds all EPA *10-Micron Inlet* specifications. 100% statistical process control on all critical dimensions of every unit.
- Manufactured in the USA by our experienced machinists and technicians.
- Individual replacement parts and assemblies are available for repair of damaged inlets.
- OEM product labeling and quantity discounts are available.
- One year warranty against defects in materials and workmanship.

### APPLICATIONS

PM<sub>2.5</sub> FRM Sampling  
Mid-Vol PM<sub>10</sub> Sampling  
Continuous PM Monitors  
Replacement Inlets  
OEM Arrangements  
Specialty Air Monitors



Alaric ElectroMechanics Inc. • Oregon, USA • (541) 218-7694 • [www.AlaricElectroMechanics.com](http://www.AlaricElectroMechanics.com)

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## Model PM10L Features & Options



See our website for additional details. Contact us for more information or for current pricing.



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