

## SSI2.5 Standard EPA Inlet

The EPA Louvered PM<sub>10</sub> inlet is a field and laboratory proven method for PM<sub>10</sub> particle aspiration. This inlet is used with both FRM PM<sub>10</sub> and PM<sub>2.5</sub> low volume samplers. Our SS12.5 inlet is manufactured exactly according to US EPA Code of Federal Regulations.

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

- Height (OA): 15.4" (39.12 cm.)
- Diameter: 9.7" (24.64 cm.)
- Weight: 4.1 lbs. (1.86 Kg.)



SSI2.5 Standard EPA Inlet



Standard TSP Inlet

## Standard TSP Inlet

The TSP inlet is designed to sample Total Suspended Particulate (TSP) at the EPA flow rate of 16.7 LPM. The TSP inlet is designed to be a direct replacement of the SS12.5 inlet.

### Louvered TSP Inlet

- Height (OA): 9.9" (25.15 cm.)
- Diameter: 9.7" (24.64 cm.)
- Weight: 1.52 lbs. (0.69 Kg.)

## miniPM<sup>®</sup> Inlet for PM<sub>10</sub> and TSP

The miniPM<sup>®</sup> inlet is designed for a flow rate of 5 LPM and incorporated into the OmniFT sampler. The miniPM<sup>®</sup> inlet was designed at one third size of the traditional PM<sub>10</sub> inlet based on extensive testing at multiple wind tunnel facilities. Jets for sampling of PM<sub>1</sub>, PM<sub>2.5</sub>, PM<sub>4</sub>, PM<sub>10</sub> and TSP are available as well.



miniPM<sup>®</sup> Inlet



Solar Panels

## Solar Panels

The Solar Panel accessory for the PQ200, PQ100 and OmniFT will extend operational time from 24 hours to an indefinite period, depending upon the amount of ambient sunlight available. As a practical matter the panel with the reconnected ballast battery will provide a minimum of 10-14 days of operation with only minimum ambient light. When interval sampling on three or six day cycles is contemplated operations far from a source of power are achievable.

Users can operate far from a source of power, even on three to six day sampling cycles.

PQ100/200 solar panel: P/N 188095

OmniFT solar panel: P/N SPFRM (Includes tripod mounting stand)

## Inlet Sampling Extension Down Tubes

The 12 inch Inlet extension tube was mandated by EPA to avoid potential bluff body effect from the interaction between the louvered inlet and the enclosure or roof of a sampling device. It also assists in raising the inlet portal to the required 2 meters off the ground. A longer 19.5 inch extension is useful with the shorter TSP sampling inlet.

### 19.5" Extension Tube (Down Tube)

- Height (OA): 19.56" (49.68 cm.)
- Diameter: 1.50" (3.81 cm.)
- Weight: 1.50 lbs (.68 Kg.)

### 12.0" Extension Tube (Down Tube)

- Height (OA): 12.0" (30.48 cm.)
- Diameter: 1.50" (3.81 cm.)
- Weight: 1.0 lbs (0.45 Kg.)



Extension Down Tubes

## Aluminum Filter Holder

The filter holder and cassette are the heart of any carefully designed particulate sampling system. Mesa conforms to the strict adherence to EPA specifications. EPA allowed waivers for molded filter cassettes which have proved problematic for sealing and flaking of the plastic.

### Filter Holder without Hose Nipple

- Height (OA): 15.4" (39.12 cm.)
- Diameter: 9.7" (24.64 cm.)
- Weight: 4.1 lbs. (1.86 Kg.)

### Filter Holder with Hose Nipple

- Height (OA): 9.9" (25.15 cm.)
- Diameter: 9.7" (24.64 cm.)
- Weight: 1.52 lbs. (0.69 Kg.)



Aluminum Filter Holder



Filter Holder

## Filter Holder with 0.562 Diameter to fit miniPM® Inlet

In order to enhance product normalization the filter holder for use with the miniPM® inlet is identical to the one used for the full size EPA inlet. However the mating tenon has been reduced from 1.250 in. outside diameter down to 0.562 in.

## Cassette Transport Case

Mesa Labs offers metal cassette transport holders for easy transportation and handling of 47mm filter cassettes back and forth to the laboratory. The two part filter cassette transport holder surrounds the cassette in an air tight metal container and holds it centered in order to prevent any contact of the filter with the container.



Cassette Transport Case



Cassette Opener

## Cassette Opener

A properly manufactured 47mm filter cassette is very tight fitted and difficult to open without an opening device. The Mesa cassette opener has grown to be the industry standard for laboratory handling of filters.

## Filter Holders

The 47mm Filter Holder has been the standard general purpose filter unit for a wide variety of scientific sampling applications. The holder is also available in a 37mm or 25mm size.

### Applications:

- Atmospheric Pollution
- Duct Sampling
- Occupational Hygiene
- Basic Aerosol Research
- Inhalation Research
- Filtration Studies



Filter Holders

## Slaton 37mm / 47mm Cassette



Slaton 37mm / 47mm Cassette

The 37mm / 47mm plastic cassette has long been the standard for a variety of aerosol sampling applications. The Slaton Cassette offers a useful, reusable alternative. The cassette (filter holder) is fabricated from lightweight aluminum turnings and finished in electroless nickel plate to eliminate corrosion and preserve conductivity. The internal taper of the 37mm / 47mm plastic cassette has been matched to permit the use of this cassette on our line of cyclones.

### Applications:

- Atmospheric Pollution
- Inhalation Research
- Occupational Health
- Attachable to Size Selection Samples

## Filter Media

- 46.2mm PTFE Film filters (50 pkg) 2.0 pore size PTFE w/ PFA support ring and alpha numeric & data matrix number (both sides).
- 46.2mm QMA quartz filters, alpha numeric & data matrix number (both sides), 100 pkg.



Filter Media