

# Thermo Scientific High-Volume Air Samplers

Available in a Mass or Volumetric Flow Control system configuration with a variety of inlet options.

The Thermo Scientific™ High-Volume Air Samplers are designed to meet International and U.S. EPA reference standards for high volume air sampling.

- U.S. EPA PM-2.5, PM-10 and PM-Coarse Equivalent Sampler
- Enhanced user interface and iSeries communication capabilities
- Improved data downloads
- Designed for easy maintenance
- Modular parts platform



Available as a Mass or Volumetric flow control system, the High-Volume Air Sampler can be configured for the measurement of airborne particulates for PM-10, PM-2.5, or Total Suspended Particulates (TSP).

The High-Volume Air Samplers using Mass Flow Control (MFC) are capable of 24-hour continuous measurement of PM-2.5, PM-10 or TSP for indoor or outdoor sampling. The MFC Samplers feature a high speed motor, durable all-weather shelter and ruggedized electronic components for accurate sampling.

The Volumetric Flow Control (VFC) High-Volume Air Samplers are supported by a protective shelter that ensures the surface of the filter rests in a horizontal position. This aerodynamic design allows for the collection of particles for PM-2.5, PM-10 or TSP.

### Instrument Designations

- PM-2.5 - Designed to meet International standards for high volume air sampling of PM-2.5 particulates.
- PM-10 - U.S. EPA FRM Designated for the determination of suspended PM-10 particulate concentrations. (RFPS-1287-063)
- TSP - Designed to meet U.S. EPA reference method for determination of total suspended particulate (TSP) concentrations.



TSP High Volume Sampler



PM-10 or PM-2.5 High Volume Sampler

## Thermo Scientific High-Volume Air Samplers

### Mass Flow Control High-Volume Samplers

Motor	0.6 HP (Horsepower)
Power	6.25 Amp, 750W
Flow Set Point	
PM-10 & PM-2.5	40 SFCM
TSP Configuration	20 to 60 SCFM
Mass Flow Control Accuracy	+/- 2.5% deviation (24 Hours)
Power Source	110v, 1-phase, 60Hz (Other options available)
Weight	
PM-10 Configuration	134lbs (61kg)
PM2.5 Configuration	139lbs (64kg)
TSP Configuration	84lbs (38kg)
Physical Dimensions	
Shelter	46" (117cm) H x 23" (59cm) W x 21" (54cm) D, 74lbs (34kg)
Inlet	32" (82cm) H x 32" (82cm) W x 26" (66cm) D, 65lbs (30kg)
Lid and Filter Holder (TSP only)	19" (48cm) H x 14" (36cm) W x 14" (36cm) D, 10lbs (5kg)

### Volumetric Flow Control High-Volume Samplers

Motor	1.0 HP (Horsepower)
Power	7 Amps, 840W
Flow Set Point	
PM-10 & PM-2.5	40 SFCM
TSP Configuration	44SFCM
Flow Control Accuracy	<1% deviation (24 Hours)
Power Source	110v, 1-phase, 60Hz (Other options available)
Weight	
PM-10 Configuration	140lbs (64kg)
PM2.5 Configuration	145lbs (66kg)
TSP Configuration	80lbs (37kg)
Shipping Dimensions	
Shelter	46" (117cm) H x 23" (59cm) W x 21" (54cm) D, 74lbs (34kg)
Lid	32" (82cm) H x 32" (82cm) W x 26" (66cm) D, 60lbs (34kg)
Blower & Filter Holder (TSP Only)	27" (69cm) H x 19" (49cm) W x 21" (54cm) D, 30lbs (14kg)

### Ordering Information

#### High-Volume Air Samplers

Choose from the following configurations/options to customize your own High-Volume Air Sampler

#### 1. Supply Voltage and Frequency

A = 120V 50/60 Hz  
B = 220V 60 Hz  
C = 220V 50 Hz

#### 2. Flow Control

M = Mass Flow Control  
V = Volumetric Flow Control

#### 3. Inlet

A = PM-2.5  
B = PM-10  
C = TSP

#### 4. Blower

B = Brush  
L = Brushless

#### 5. Timer

D = Digital  
E = 7 Day Mechanical

**Your Order Code: HIVOL - \_ \_ \_ \_ \_**

To maintain optimal product performance, you need immediate access to experts worldwide, as well as priority status when your air quality equipment needs repair or replacement. We offer comprehensive, flexible support solutions for all phases of the product life cycle. Through predictable, fixed-cost pricing, our services help protect the return on investment and total cost of ownership of your Thermo Scientific products.

For more information, visit our website at [thermoscientific.com/air](http://thermoscientific.com/air)

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This product is manufactured in a plant whose quality management system is ISO 9001 certified.

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