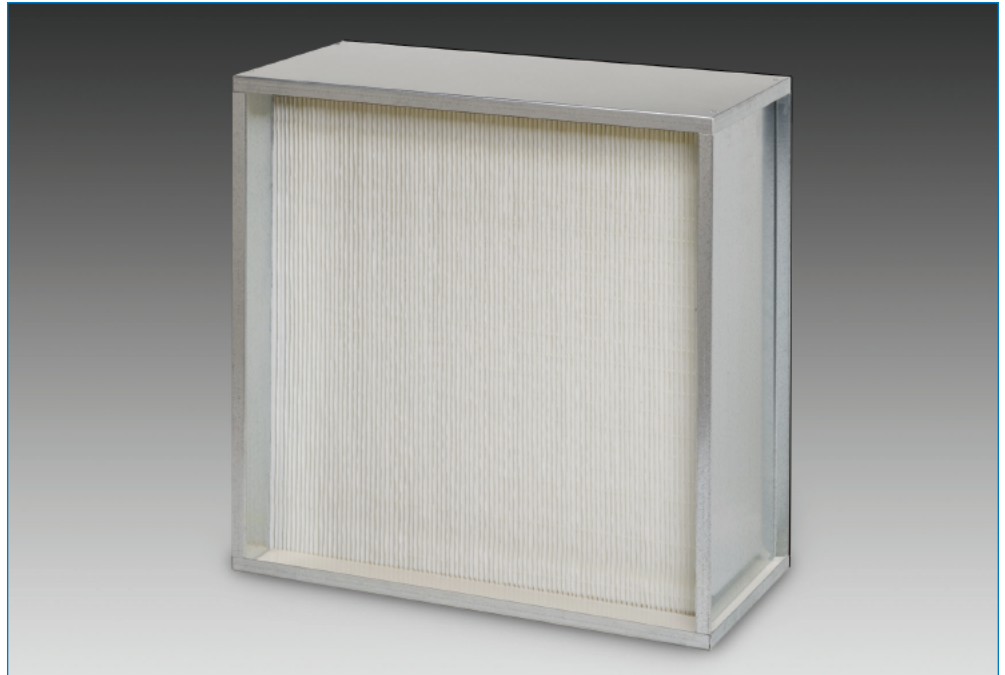




- *Standard and High Capacity styles available*
- *Advanced Mini-Pleat pack for optimum air flow*
- *Lightweight Design*
- *Recessed pack allows for easy handling and installation*
- *Rugged 18 gauge galvanized steel frame*
- *Low pressure drop design lowers operating costs*

## M-SERIES HEPA



### DESCRIPTION

The AeroStar® M-Series HEPA is designed for value, versatility, and performance. The M-Series is a HEPA (High Efficiency Particulate Air) filter constructed with an advanced mini-pleat pack and bead separators that eliminate the need for the traditional fluted aluminum separators. The advanced pleating structure is much more aerodynamic, reducing the pressure drop across the filter in both standard and high capacity models. The low initial pressure drop results in low operating costs during the life of the filter. The M-Series HEPA is durable, lower in weight, and extremely cost competitive when compared to traditional HEPA filters.

The M-Series HEPA utilizes wet laid glass media, a robust 18 gauge galvanized metal frame, and is available in 99.97% and 99.99% efficiencies.

### BENEFITS

Recessed pleat pack makes transportation and installation much easier than a traditional HEPA filter, and further protects the pleat pack during shipping and handling.

Available in both Standard Capacity (SC) and High Capacity (HC) models.

Rugged steel frame ensures integrity during the life of the filter, and will not swell like a wood sided HEPA in humid applications.

### APPLICATIONS

The AeroStar® M-Series HEPA is designed to replace traditional standard capacity and high capacity HEPA filters and provide better air flow. Applications include pharmaceutical, medical, food processing industries, contamination cleanup and hospitals. They can also be used as pre-filters in cleanroom environments and other critical applications for final HEPA and ULPA filters.

## DIMENSIONS AND PERFORMANCE DATA

### STANDARD CAPACITY

PART NUMBER 99.99%	PART NUMBER 99.97%	ACTUAL SIZE (H x W x D)	RATED AIR FLOW (cfm)	SHIPPING WEIGHT (lbs.)
41904	41902	23 3/8 x 11 3/8 x 11 1/2	425	18
41903	41901	23 3/8 x 23 3/8 x 11 1/2	945	34
41770	41900	24 x 12 x 11 1/2	465	18
41859	41638	24 x 24 x 11 1/2	1000	34

Nominal initial resistance of 0.85" w.g. at rated air flow for both efficiencies

### HIGH CAPACITY

PART NUMBER 99.99%	PART NUMBER 99.97%	ACTUAL SIZE (H x W x D)	RATED AIR FLOW (cfm)	SHIPPING WEIGHT (lbs.)
41904HC	41902HC	23 3/8 x 11 3/8 x 11 1/2	855	18
41903HC	41901HC	23 3/8 x 23 3/8 x 11 1/2	1890	34
41770HC	41900HC	24 x 12 x 11 1/2	935	18
41859HC	41638HC	24 x 24 x 11 1/2	2000	34

Nominal initial resistance of 1.25" w.g. at rated air flow for both efficiencies

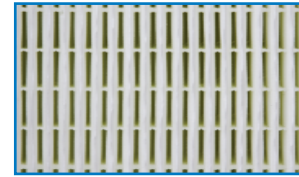
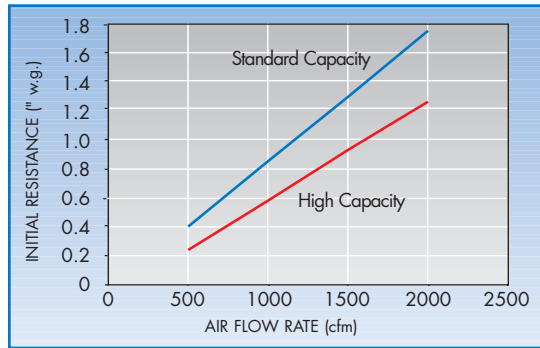
## APPLICATION PARAMETERS

Maximum Constant Temperature: 212° F (100° C)  
 Recommended Final Pressure Drop: 2.0 "w.g.  
 Flammability: UL Classified  
 Relative Humidity: 100%

## MATERIALS

Frames: 18 gauge galvanized steel; box style  
 Media: Wet laid microglass paper  
 Separators: Hot melt  
 Sealant: Polyurethane  
 Gasketing: 1/4" x 3/4" wide urethane, ball-and-socket joint.

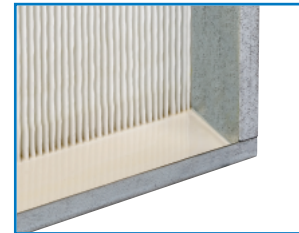
## FILTER RESISTANCE (24 x 24 x 11 1/2)



Precision machine pleating provides optimal air flow.



Recessed pleat pack eases transportation and installation.



The M-Series is fully potted to prevent any chance of contaminant bypass.



Filters are individually tested and labeled with efficiency, part number, rated CFM and a unique serial number to ensure true HEPA efficiency performance.

## M-SERIES HEPA ENGINEERING SPECIFICATIONS

### 1.0 Performance Characteristics

- Filters shall be Aerostar® M-Series HEPA manufactured by Filtration Group. The size of the filter shall be H x W x D". Overall dimensions shall be correct to within +0", - 1/8".
- Filters shall be tested and certified to have an efficiency of not less than
  - for HEPA filter 99.99% at 0.3 µm
  - for HEPA filter 99.97% at 0.3 µm
- Filters rated at 99.99% efficiency shall be scan tested at the factory and certified in accordance with IESTRPCC-001.
- The clean filter static pressure drop shall be no greater than 1.00" Max for Standard Capacity HEPA's where the air flow is 1000 SCFM on a 24 x 24 x 11.5-inch full size filter. The clean filter static pressure drop shall be no greater than 1.45" Max for High Capacity HEPA's where the air flow is 2000 SCFM on a 24 x 24 x 11.5-inch full size filter. Air flow is determined as the face area x 250 feet per minute face speed for standard capacity and the face area x 500 feet per minute face speed for high capacity.
- Filters shall be UL Classified.

### 2.0 Physical Characteristics

- The filter frame shall be manufactured in galvanized steel and the sides of the frame shall be joined together so that any contamination of the filter by metal shavings is prevented. The frame panels are secured with rivets. Sharp edges where the edges are joined together will not be accepted.
- The media pack will consist of HEPA Grade media that is pleated and separated using hot melt adhesive beads.
- The media pack shall be sealed on all sides and form a completely leak proof seal with the frame.
- Gasket seal filters shall be provided with a 1/4" x 3/4" closed cell urethane gasket. Gasket joints to use a ball-and-socket joint and filled with adhesive to assure a positive seal.
- Filter labels shall have the following information:
  - Efficiency
  - Serial number
  - Rated air flow
  - Part number
  - Initial resistance at rated air flow

### 3.0 Quality System

- Manufacturer shall provide documentation from an external certification body that the manufacturing location is ISO 9000 Registered.
- If requested manufacturer shall make available a copy of their Corporate Quality Manual.
- If requested the manufacturer shall make available printed performance test results or Certificate of Test. (letter of compliance).



**FILTRATION GROUP®**

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