

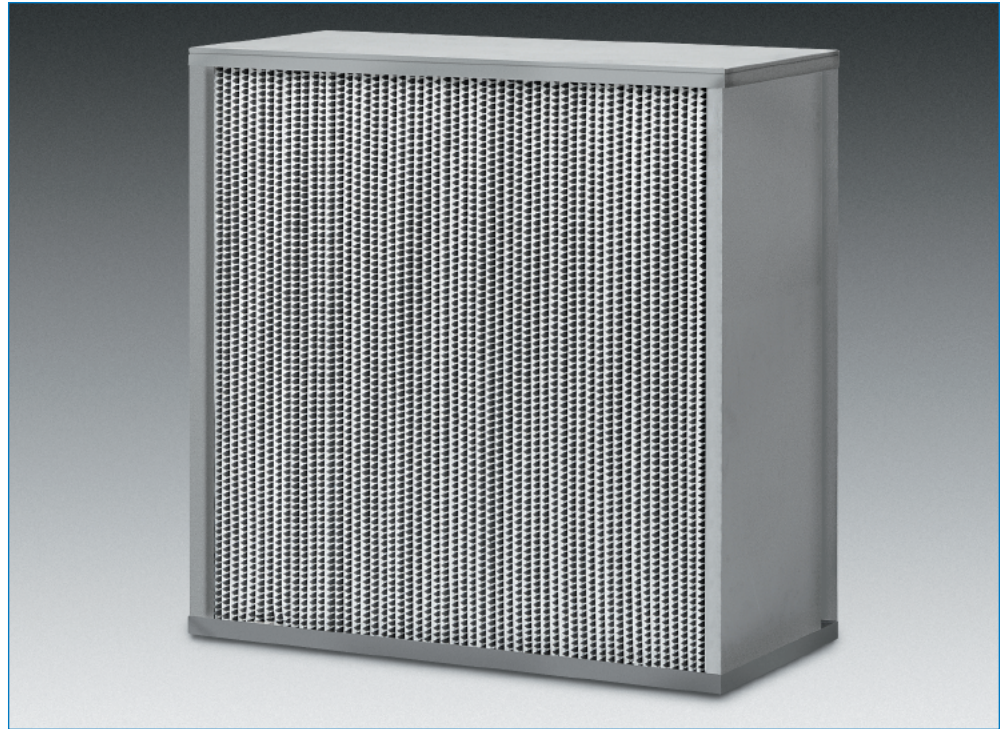


**FILTRATION GROUP®**

# HEPA FILTER (ALUMINUM SEPARATOR)



- *Standard and High Capacity (SC & HC)*
- *Proprietary automated computer test CIPAT (Computer Integrated Particulate Air Test)*
- *Rugged construction*
- *Galvanized steel frame is standard; other materials and headers are optional*



## DESCRIPTION

The Aerostar® HEPA (Aluminum Separator) filter is constructed with an 18 gauge galvanized steel frame with a continuous band of media pleated back and forth over corrugated aluminum separators. These filters contain a two-part polyurethane, which assures a positive seal of the media pack and frame. The interlocking frame design with sealant placed behind the top and bottom flange allows unobstructed air flow and ease of filter handling.

## BENEFITS

The Aerostar HEPA filter's corrugated aluminum separators assure even pleat spacing. The hemmed edges on the aluminum separators reduce possible pleat damage. HEPA filters are UL Classified to meet strict fire codes. In addition, filters,

99.97% DOP and higher, are tested on our CIPAT (Computer Integrated Particulate Air Test) duct to assure compliance with overall efficiency specifications. The 99.99% HEPA's are scan tested for leaks.

## APPLICATIONS

The Aerostar HEPA filters remove a broad range of airborne contaminants, including fine dust, smoke, soot, pollen and radioactive particles. HEPA filters are used in final filter applications including hospitals, electronics, nuclear, pharmaceuticals, laboratories, aerospace, food processing and optics. They can also be used as pre-filters in cleanroom environments and other critical applications for final HEPA/ULPA/SULPA filters.

# HEPA FILTER (ALUMINUM SEPARATOR)



## DIMENSIONS AND PERFORMANCE DATA

### 99.99% EFFICIENCY

PART NUMBER	ACTUAL FILTER DIMENSIONS (H x W x D)	RATED AIR FLOW (cfm)	PRESSURE DROP (Max. Initial " w.g.)	PART NUMBER	ACTUAL FILTER DIMENSIONS (H x W x D)	RATED AIR FLOW (cfm)	PRESSURE DROP (Max. Initial " w.g.)
SC (STANDARD CAPACITY) — SCANNED				HC (HIGH CAPACITY) — SCANNED			
11399	24 x 12 x 11 1/2	465	1.0	54354	24 x 12 x 11 1/2	935	1.45
11402	24 x 24 x 11 1/2	1000	1.0	51347	24 x 24 x 11 1/2	2000	1.45

### 99.97% EFFICIENCY

PART NUMBER	ACTUAL FILTER DIMENSIONS (H x W x D)	RATED AIR FLOW (cfm)	PRESSURE DROP (Max. Initial " w.g.)	PART NUMBER	ACTUAL FILTER DIMENSIONS (H x W x D)	RATED AIR FLOW (cfm)	PRESSURE DROP (Max. Initial " w.g.)
SC (STANDARD CAPACITY)				HC (HIGH CAPACITY)			
11411	24 x 12 x 11 1/2	465	1.0	51675	24 x 12 x 11 1/2	935	1.45
11420	24 x 24 x 11 1/2	1000	1.0	50584	24 x 24 x 11 1/2	2000	1.45

CIPAT Tests performed on 99.97% and higher efficiencies.

### 95% EFFICIENCY

PART NUMBER	ACTUAL FILTER DIMENSIONS (H x W x D)	RATED AIR FLOW (cfm)	PRESSURE DROP (Max. Initial " w.g.)
SC (STANDARD CAPACITY)			
11425	24 x 12 x 11 1/2	465	0.55
11429	24 x 24 x 11 1/2	1000	0.55

## APPLICATION PARAMETERS

Maximum Constant Temperature: 212° F (100° C)

Recommended Final Pressure Drop: 2.0 "w.g.

Flammability: UL Classified

Relative Humidity: 100%

## HEPA FILTER ENGINEERING SPECIFICATIONS

### 1.0 Performance Characteristics

- Filters shall be Aerostar® 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 95% at 0.3 µm\*
  - for HEPA filter 99.97% and 99.99% 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 folded over a series of aluminum foil corrugations. The foil is 0.00125-inches thick.
- Filter media shall be micro glass fiber type folded into closely spaced pleats with aluminum foil separators.
- 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
  - Rated air flow
  - Initial resistance at rated air flow
  - Serial number
  - Part number

### 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).

\*Not tested for 95% efficiency

## MATERIALS

Frames: 18 gauge galvanized steel

Options:

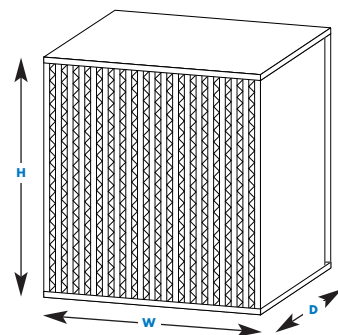
- \* 304 Stainless Steel
- \* Anodized Aluminum
- \* Single and Double Header (99.97% and 95% only)
- \* Double Turned Flange (full and half sizes only)

Media: Wet laid microglass paper

Separators: Corrugated aluminum with hemmed edges both sides

Sealant: Polyurethane

Gasketing: 1/4" x 3/4" wide urethane, ball-and-socket joint, downstream.



Distributed by:



**FILTRATION GROUP®**

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