

# HF SERIES

## FOAM AIR FILTER



### MERV 4 INITIAL EFFICIENCY

**Application:** The HF Series two-stage foam & aluminum filter is an impingement type panel filter designed to replace disposable air filters commonly used in low airflow HVAC applications to remove airborne particulate and dust from the airstream. Placing a washable foam pad behind an aluminum mesh prefilter creates the unique two-stage filtration system offering greater arrestance and efficiency over the traditional, all-metal washable filter. Popular applications include computers and electronic equipment requiring dust particle filtration to protect sensitive hardware. The HF filter is ideal for machinery ventilation and air cleaners that require a permanent dust filtration solution.

**Construction:** The HF Series filter uses an aluminum frame to enclose the media pack. The first stage of the media pack uses an expanded aluminum grid, corrugated to increase its available surface area, followed by layers of corrugated aluminum screen wire assembled in a criss-cross fashion for strength and service to remove large airborne particulate. The second stage is made of 25 pores per inch (ppi) foam which removes smaller airborne particulate. The entire media pack is backed by an expanded aluminum support grille on the air-exit side of the filter. The frame is made with mitered corners and is secured with pop-rivet(s). The frame has drain holes in three corners.

#### Filter Cleaning and Coating

1. To clean a dirty filter, rinse it with a moderate-to-heavy stream of warm water. High-powered steam cleaning or chemical dips are unnecessary and not recommended.

2. The HF Series filter is not supplied from the factory with filter adhesive coating. It is not advisable to coat this filter with any adhesive coating.

Due to continuing research and development, we reserve the right to make modifications to any product.

AVAILABLE IN  
ONE ALLOY

## HFA

Aluminium

### PRODUCT HIGHLIGHTS

- Two-Stage Progressive Density Media Pack
- 25 ppi Foam for 75% Dust Efficiency
- Low Air Resistance, Great for Electronics
- Washable and Reusable

### FAST FACTS

**Minimum Order:**

No Minimum Order

**Sizing Options:**

Standard and Special Sizes Available  
(See reverse side for details.)

**Classification:**

UL Classified 900

MAX TEMP:

HFA – 250 Degrees F

# HF SERIES

## FOAM AIR FILTER



MODEL	HFA		
<b>CONSTRUCTION</b>			
Frame Alloy	.030" thick aluminum		
Frame Thickness	1/2" exact: nominal* 1" and 2"		
Primary Stage Media	Expanded aluminum and screen wire		
Secondary Stage Media	25 ppi filter foam		
<b>APPLICATION</b>			
Application	Airborne particulate and coolant mist		
Max Operating Temperature	250°		
Washability	Frequent and moderate		
<b>STANDARD SIZES</b>			
Nominal** Dimensions (H x W x T)	Part Number	Carton Quantity	Carton Weight
12 x 24 x 1	HFA101224	12	12.0
16 x 20 x 1	HFA101620	12	14.0
16 x 25 x 1	HFA101625	12	15.0
20 x 20 x 1	HFA102020	12	15.0
20 x 25 x 1	HFA102025	12	18.0
24 x 24 x 1	HFA102424	12	21.0
12 x 24 x 2	HFA201224	12	15.0
16 x 20 x 2	HFA201620	6	18.0
16 x 25 x 2	HFA201625	6	19.0
20 x 20 x 2	HFA202020	6	19.0
20 x 25 x 2	HFA202025	6	21.0
24 x 24 x 2	HFA202424	6	24.0

### SIZING INFORMATION

- \* **Nominal Frame Thickness:** 1/2" exact, nominal 1" (7/8" actual), nominal 2" (Actual 1-3/4").
  - \*\* **Nominal HxW Dimensions:** Standard size filters are of a nominal dimension. This means the height and width dimensions are undercut by a set amount.
1. **Standard** nominal filters are 1/2" undercut on the height and width dimensions.
  2. **Special** size filters are made to the exact height and width dimensions stated on the purchase order. Please confirm prior to order.
  3. Foam Media Porosity Tolerance: ± 5 ppi.
  4. The 1/2" exact filter uses an .025" thick aluminum frame.
  5. Tolerance height and width: ± 1/8"
  6. Tolerance thickness: ± 1/16"

### CLASSIFICATION & TEST NOTES

1. UL Classified 900
2. Rated Airflow: 300 fpm
3. Recommended Airflow Range: 250 – 350 fpm.
4. Initial Efficiency: MERV 4 at rated airflow.
5. Dust Holding Capacity:
  - a. 1" thick: 24 grams per square foot
  - b. 2" thick: 27 grams per square foot
6. Average Arrestance:
  - a. 1" thick: 75% at rated airflow
  - b. 2" thick: 85.4% at rated airflow
7. Recommended final resistance is .50" W.G.
8. Independent test report available for performance details

### INSTALLATION CONSIDERATIONS

1. The HF Series filter may be installed in HVAC systems vertically or horizontally.
2. DO NOT place the filter in direct sunlight or ultraviolet light because this will degrade the filter foam.

