

### General

Flanders manufactures metal-frame separator-style HEPA filters for applications with high-temperature requirements up to 1,000°F (540°C) for exhaust air only and 500°F (260°C) for supply air. High-temperature filters are available with either a gasket or fluid seal. Filters with Blu-Jel® Fluid Seal have a maximum service temperature of 390°F (199°C)

### HEPA Filters

Each HEPA filter has a minimum efficiency of 99.97% on 0.30 micrometer size particles when tested at rated capacity on a Q-107 Penetrometer. Each filter is challenged with an approved nearly monodispersed oil aerosol of 0.30 micrometer size and by measuring the upstream and downstream concentration of these particles with a light scattering photometer, the penetration can be determined and the efficiency can be calculated.

### Scan Tested HEPA Filters

Each Scan Tested HEPA filter has a minimum efficiency of 99.99% on 0.30 micrometer particles. Scan testing is in accordance with Section 6.2 of IEST-RP-CC034.1, HEPA and ULPA Filters Leak Tests. In the scan test, the filter is challenged with a high concentration of an approved oil aerosol or PSL (Polystyrene Latex Spheres). The media pack and pack-to-frame seal is scanned using a photometer or particle counter to insure that there are no leaks greater than .01% of the upstream concentration at 100 fpm face velocity. Scan testing is only available for the 500°F model.

### Sealant Types

Two types of sealants for high-temperature HEPA filters are offered.

#### Silicone Sealant

This is a high temperature (RTV) silastic-sealant silicone compound rated for continuous service up to 500°F(260°C). NOTE: This high-temperature sealant is not UL 586 approved.

#### Glass Pack Sealant For Exhaust Air Only

The glass pack seal is rated for continuous service up to 1,000°F(540°C) in exhaust air applications only. It is a mat of submicron glass fibers that creates a seal when compressed between the filter pack and filter frame. The glass packing is not an adhesive seal but a mechanical seal that functions much as the glass fiber medium of the filter itself.

NOTE: Due to the possibility that the glass pack may shed glass fibers, the glass pack sealant should be used for exhaust systems only.



### Alpha HT Filter Dimensions and Capacities

| CFM CAPACITIES AND DIMENSIONS |  |                           |  |      |      |              |
|-------------------------------|--|---------------------------|--|------|------|--------------|
| Filter Depth (Inches)         | Filter Size and Frame Depth Designator | Actual Face Size (Inches) | CFM Capacity at Clean Pressure Drop, Inches w.g. |      |      | Weight (Lb.) |
|                               |  |                           | .65  | 1.0  | 1.35 |              |
| 11-1/2                        | GG-F                                   | 24x24                     | 650  | 1000 | 1300 | 38           |
|                               | GC-F                                   | 24x12                     | 300  | 455  | 590  | 26           |
|                               | YY-F                                   | 23-3/8x23-3/8             | 615  | 945  | 1235 | 37           |
|                               | YU-F                                   | 23-3/8x11-3/8             | 275  | 425  | 550  | 25           |
|                               | GN-F                                   | 24x30                     | 830  | 1275 | 1655 | 45           |
|                               | CC-F                                   | 12x12                     | 135  | 205  | 265  | 14           |

## ALPHA HT COMPONENT CHART

0 - 007 - C - 02 - 03 - IE - 32 - 00 - GG - F

### Hardware

O = None  
T = Extractor Clips

### Efficiency

007 = 99.97% DOP  
99.99% on .30 micrometers=SU Sealant

### Capacity / Pack Style

C = Separator

### Frame Material

02 = 16 GA 409 Stainless  
03 = 16 GA 304 Stainless

### Frame Style

03 = Double-Turned Flange  
05 = 3/4 in. Deep Channel

### Sealant Material

IE = High Temperature Silicone  
IG = Ceramic and Glass Mat  
SE = high Temperature Silicone Scan Tested (99.99% on 0.30 micrometers)

### Gasket Material

0 = None  
3 = Silicone Sponge  
4 = Woven Glass  
5 = Blu Jel

### Gasket Location

0 = None  
1 = Upstream  
2 = Downstream  
3 = Both Sides

### Filter Depth

D = 5-7/8  
F = 11-1/2

### Filter Face Size (H x W)

B=8" N=30" R=6  
C=12" P=36" S=72"  
E=18" H=42" U=113/8  
G=24" Q=48" Y=23 3/8

### ODD Size Designator

Odd size designators are an alpha numeric description. The first two digits specify the height whole number with an alpha designator specifying the height fraction. The second two digits specify the width whole number with an alpha designator specifying the width fraction. And the last alpha designator specifies the depth. If the height or width is less than 10 inches, use a 0 in front of the dimension.

|           |         |          |          |
|-----------|---------|----------|----------|
| A = 0"    | E=1/4"  | J=1/2"   | N=3/4"   |
| B=1-1/16" | F=5/16" | K=9/16"  | P=13/16" |
| C=1/8"    | G=3/8"  | L=5/8"   | Q=7/8"   |
| D=3/16"   | H=7/16" | M=11/16" | R=15/16" |

### Faceguard Material

0 = None  
G = Aluminized Expanded Metal  
5 = 22GA.SS 4x4 Mesh

### Faceguard Location

0= None  
1 = Upstream  
2 = Downstream  
3 = Both

## Guide Specifications

### 1.0 General

- 1.1 High temperature separator style HEPA filters shall be Alpha HT models as manufactured by Flanders.
- 1.2 Filter sizes, capacities and construction options shall be as scheduled on the drawings.

### 2.0 Filter Construction

- 2.1 The filter pack shall be constructed by pleating a continuous sheet of non-woven water-resistant fiberglass media around hemmed-edge corrugated aluminum separators.
- 2.2 The filter pack shall be sealed into a (409 stainless steel) (304 stainless steel) frame with a high temperature silicone sealant rated for 500°F or a glass pack sealant rated for 1,000°F in exhaust applications.
- 2.3 (A chlorastic silicone gasket) (a woven glass gasket) shall be provided to seal the filter in the mounting device (Gasket Seal). A silicone gel shall be provided in a channel on one side to seal the filter in the mounting device. filters with silicone gel have a maximum service temperature of 390°F (Gel Seal)

### 3.0 Performance

- 3.1 Initial and final resistances shall not exceed the scheduled values.
- 3.2 Alpha HT HEPA Filters shall have a minimum efficiency of 99.97% on 0.30 micrometer particles when tested at rated capacity on a Q-107 Penetrometer in accordance with IEST-RP-CC-001.3, Type A. Each filter shall be challenged with an approved nearly monodispersed oil aerosol of 0.30 micrometer size. Measure the upstream and downstream concentration of these particles with a light scattering photometer, determine the penetration and calculate the efficiency.
- 3.3 Alpha HT Scan Tested HEPA Filters shall have a minimum efficiency of 99.99% on 0.30 micrometer particles when tested at rated capacity on a Q-107 Penetrometer in accordance with IEST-RP-CC-001.3, Type C. The scan test shall consist of challenging the filter with a high concentration of an approved oil aerosol or PSL Spheres. Utilizing a photometer or particle counter, the media pack and the pack-to-frame seal shall be scanned to insure that there are no leak greater than .01% of the upstream concentration at 100 fpm face velocity.

# Flanders/FFI®

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