

SuperFlow® 24

HIGH VELOCITY LOW AIRFLOW RESISTANCE HEPA FILTERS



Operational Advantages Over Conventional HEPA Filters

- **Longer Life** – Gasket seal SuperFlow 24 filters have 400 sq. ft. of media compared to 240 sq. ft. for traditional HEPA filters. The greater media area provides a longer time period between filter replacements.
- **Improved Efficiency** – The significant quantity of media translates into an extremely low media velocity. Therefore, a minimum overall efficiency of 99.99% at 0.30 μm is easily assured. Traditional HEPA filters have an overall efficiency of 99.97% at 0.30 μm .
- **Lower Operating Cost** – The typical HEPA filter pressure drop can range from 1.4" w.g. to 1.8" w.g. at the rated airflow. The pressure drop of the SuperFlow 24 is 1" w.g. at the rated airflow.

AAF Flanders SuperFlow 24 is a V-bed HEPA filter (99.99% at 0.30 micrometer) specifically designed for high airflow applications requiring HEPA efficiency at an ultra low-pressure drop. The SuperFlow 24 can be incorporated into systems with air velocities of 600 fpm and a pressure drop of 1" w.g.

Product Design

The SuperFlow 24 filters are manufactured with wet laid microfibre fiberglass media. The media is formed into a mini-pleat utilizing a hot melt separator and arranged in a V-bed configuration. There are twelve individual mini-pleat packs sealed on all four sides to the frame with two-component polyurethane. The frame is constructed of galvanized, aluminum, or stainless steel and consists of vertical support struts of the same material. Vertical supports are attached to the frame body without the use of mechanical fasteners. The vertical supports act as the sealing surface of the mini-pleat packs.

Product Options

The SuperFlow 24 filters are available in aluminum, galvanized, or stainless steel frames and with gasket seal or gel seal design. The SuperFlow 24 filters are UL 900 Classified.

Gasket Seal

The filter gasket is 1/4" x 3/4" black neoprene attached to the frame with an adhesive, and the gasket joints are dovetailed to ensure no penetration of particulate due to the gasket. The filter is designed for installation into AAF Flanders front load B-1 holding frame, C-3 Gasket Seal Housing and Surelock-B Side Access Housing.

Gel Seal

The filter gasket is AAF Flanders gel filled into a channel around the perimeter of the frame. The gel seal design provides the highest degree of sealing integrity between the filter and holding device. The filter is designed for installation into AAF Flanders front load A-4 Holding Frame or C-4 Gel Seal Housings.

SuperFlow® 24 Filters

Product Information – Standard Sizes & Performance Data

Model Number	Nominal Size (inches) (W x H x D)	Actual Size (inches) (W x H x D)	Media Area (sq. ft.)	Rated Airflow
SF24(*)-(*)	24 x 24 x 12	24 x 24 x 11½	400	2400
SF24(*)-(*)	12 x 24 x 12	12 x 24 x 11½	195	1320

Installation Considerations

All products have a rated overall efficiency of 99.99% at 0.30 µm and a maximum pressure drop of 1.0" w.g. at the rated airflow. Specify the following:

SF24 - 8 - (*) (*)

Gasket Locations

1 = Upstream
2 = Downstream

Gasket Types

G = Neoprene
F = Gel

Material Types

8 = Galvanneal
5 = Aluminum
3 = Stainless Steel

SuperFlow® is a registered trademark of Flanders Corporation in the U.S.

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Bringing clean air to life.®

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AAF Flanders has a policy of continuous product research and improvement. We reserve the right to change design and specifications without notice.

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