

## General

Super Flow<sup>®</sup> -V extended surface area & low pressure drop minipleat filters are designed for use in most commercial and industrial HVAC systems where medium to high efficiency filtration is required. Super Flow<sup>®</sup> -V filters are available in average efficiency ranges: 75%, 85%, 95% and 98% per ASHRAE Standard 52.1 test methods and 95% DOP. They may be operated at face velocities from 0 to 750 fpm. Super Flow<sup>®</sup>-V filters are UL 900 Class 2 listed.

## Construction

Super Flow<sup>®</sup> -V filters are constructed of multiple minipleat panels bonded to flame-retardant plastic panels on top and bottom to make an unusually strong assembly that is both corrosion and moisture resistant. Aerodynamic extruded vertical supports minimize air entry turbulence. Super Flow<sup>®</sup>-V filters are totally rigid making them ideal for variable air volume (VAV) systems, as well as applications downstream of supply fans.

## Low Pressure Drop

Super Flow<sup>®</sup> -V minipleat filters have an excep-

tionally low clean pressure drop unmatched by most any filter of the same efficiency. This affords low fan energy costs during much of the life of the filter system. In addition, they are the filters of choice for packaged air conditioning systems that do not have the fan capacity of larger central systems.

Longer service life means material and labor cost savings and less disruption of systems caused by filter change-out shutdowns. High dust holding capacity is a key benefit of a filter with increased media area.

## Physical Data

**Media:** Moisture-resistant microfine fiberglass

**Filter Pack:** Minipleat panels

**Media Support:** Adhesive

**Top and Bottom Panels:** Flame-retardant plastic

**Vertical Supports:** Aerodynamic extruded vertical supports

**Operating limits:** 160 °F and 100% RH continuous duty

**Actual Header Size:** Nominal size less 5/8" (e.g. a nominal 24" x 24" filter is actually 23-3/8" x 23-3/8")

**Actual Depth:** 11-1/2"

## Important Features

- Lowest clean pressure drop for energy savings and applicability to small fan systems
- Longer service life because of a very high ratio of media to nominal face area
- Aerodynamic vertical supports minimize air entry turbulence
- Minipleat panels provide rigidity for VAV systems and resistance to turbulent air flow
- May be operated from 0 to 750 fpm face velocity in either air flow direction
- Moisture resistant for humid air applications
- MERV 12-16



# *Rugged, energy-efficient design.*

## **Energy Efficient Minipleat Design**

Significantly reduces air-flow resistance for better energy efficiency.

## **Choice of Filter Efficiency**

75%, 85% , 95%, 98% ASHRAE and 95% DOP

## **Aerodynamic Aluminum Strut Facings.**

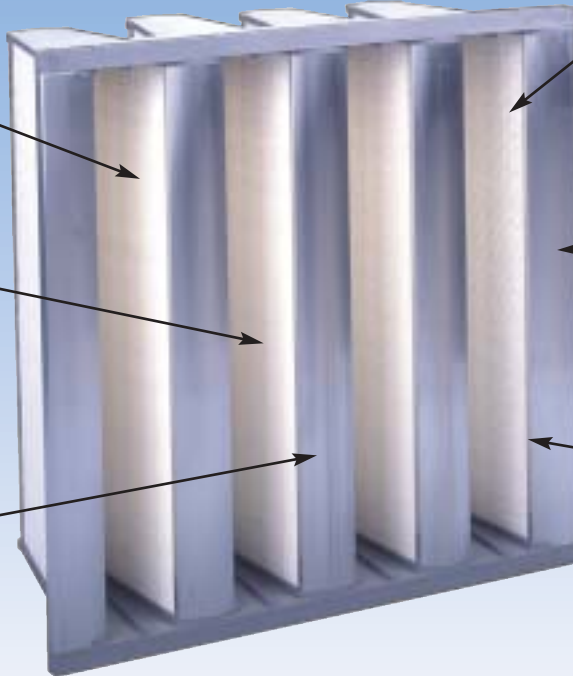
## **Glue-bead Separators**

insure perfect pleat spacing and extra solid construction.

## **Choice of Frame Styles**

Standard single-header, double header and full metal wrap.

**Air-tight pack-to-frame sealant** eliminates air bypass.



## *Choice of frame styles.*



Double Header



Box Style

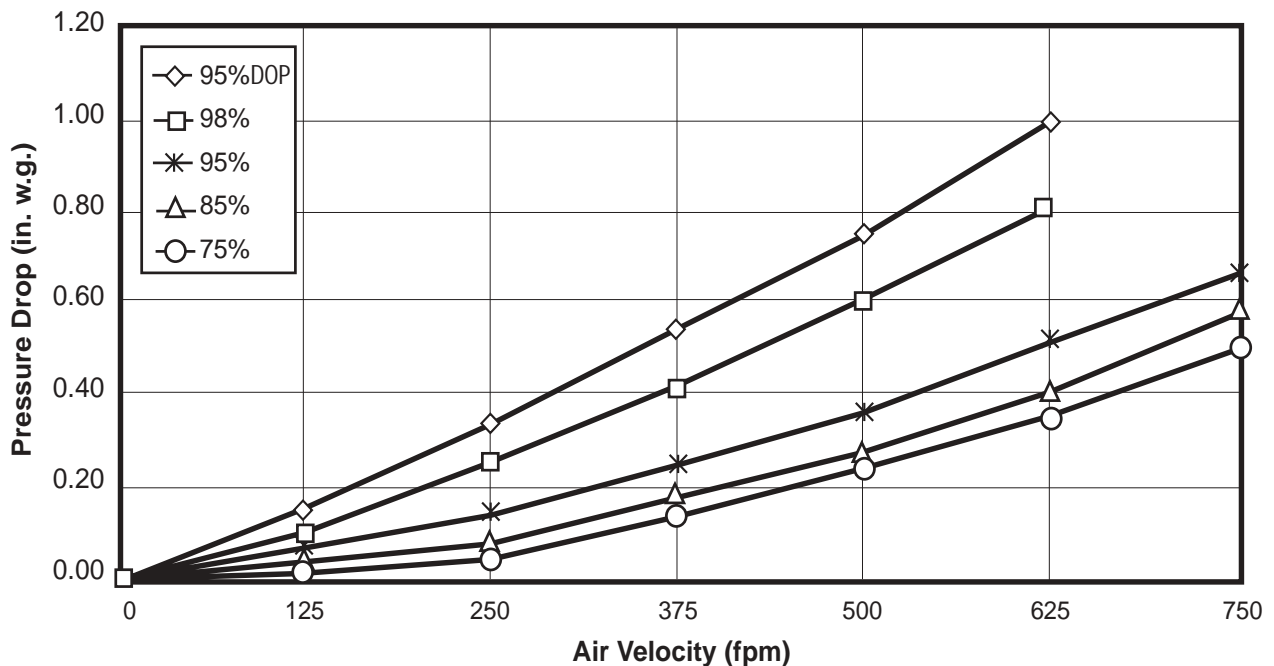
The standard Super Flow®-V has a single header like the one in the topmost photo on this page. It can also be fitted with a double-header or full metal jacket to suit your application.

## Save energy with low resistance Super Flow® V.

Super Flow® V lets you enjoy superior filtration performance and better energy efficiency in one rugged filter. Made with tightly formed mini-pleat packs, the Super Flow® V is available in 75%, 85%, 95%, 98% ASHRAE and 95% DOP models. And yet, energy savings with a Super Flow® V filter are substantial.

For example, energy savings with a 95% Super Flow® V is in the range of 8 cents per cfm when compared to a conventional box filter. (At 10 cents per KWH)

Contact your sales representative for specific energy savings information.



Flanders Precisionaire - Foremost in Air Filtration

Engineered Products: 1-800-637-2803 Replacement Products: 1-800-347-2220

Efficiency %	Model Number	Nominal Size HxWxD Inches	250 FPM		375 FPM		500 FPM		625 FPM		750 FPM		Media Area (Sq.Ft)	Wt. Each (Lbs.)
			CFM	PD	CFM	PD	CFM	PD	CFM	PD	CFM	PD		
95% DOP	SFVD-95A12	24 x 24 x 12	1000	0.28	1500	0.55	2000	0.75	2500	1.0	*	*	196	18
95% DOP	SFVD-95B12	20 x 24 x 12	800	0.28	1200	0.55	1600	0.75	2000	1.0	*	*	162	14
95% DOP	SFVD-95C12	12 x 24 x 12	500	0.28	750	0.55	1000	0.75	1250	1.0	*	*	98	9
98%	SFV-98A12	24 x 24 x 12	1000	0.25	1500	0.45	2000	0.60	2500	.08	*	*	196	17
98%	SFV-98B12	20 x 24 x 12	800	0.25	1200	0.45	1600	0.60	2000	.08	*	*	162	13
98%	SFV-98C12	12 x 24 x 12	500	0.25	750	0.45	1000	0.60	1250	.08	*	*	98	8
95%	SFV-95A12	24 x 24 x 12	1000	0.14	1500	0.25	2000	0.36	2500	0.51	3000	0.67	196	17
95%	SFV-95B12	20 x 24 x 12	800	0.14	1200	0.25	1600	0.36	2000	0.51	2400	0.67	162	13
95%	SFV-95C12	12 x 24 x 12	500	0.14	750	0.25	1000	0.36	1250	0.51	1500	0.67	98	8
85%	SFV-85A12	24 x 24 x 12	1000	0.07	1500	0.18	2000	0.27	2500	0.40	3000	0.58	196	17
85%	SFV-85B12	20 x 24 x 12	800	0.07	1200	0.18	1600	0.27	2000	0.40	2400	0.58	162	13
85%	SFV-85C12	12 x 24 x 12	500	0.07	750	0.18	1000	0.27	1250	0.40	1500	0.58	98	8
75%	SFV-75A12	24 x 24 x 12	1000	0.05	1500	0.15	2000	0.25	2500	0.38	3000	0.50	196	17
75%	SFV-75B12	20 x 24 x 12	800	0.05	1200	0.15	1600	0.25	2000	0.38	2400	0.50	162	13
75%	SFV-75C12	12 x 24 x 12	500	0.05	750	0.15	1000	0.25	1250	0.38	1500	0.50	98	8

### Performance Data Notes:

1. PD represents clean pressure drop in inches w.g. The recommended final pressure drop for all models is 2.0 inch w.g. 2. Operation down to zero air flow is satisfactory for all models
3. Efficiency is average and is based on ASHRAE Standard 52.1 test methods for 75, 85, 95 and 98% filters. Performance values stated may be averages typical of the products listed. Contact factory for actual performance test reports on specific products.
4. Performance tolerances conform to section 7.4 of ARI Standard 850.
5. Actual filter header is 5/8 inch under on height and width. Actual depth is 11-1/2 inch

### Installation Considerations

Super Flow®-V filters may be installed in Flanders Universal Holding Frames, K-Trac Filter Framing Modules, Sureseal Side Access Housings or in similar existing hardware. Universal Holding Frames are riveted together to form a filter bank. K-Track Filter Framing Modules are especially suitable for medium to large built-up filter banks. Smaller systems and systems with minimum upstream access space are best served using Sureseal Side Access Housings.

Super Flow®-V filters are furnished with a peripheral header on the air entering side and with foam gaskets on the "H" dimension for the 24 x 24 model and "W" dimension on the 12 x 24 and 20 x 24 models.

## Guide Specifications

### 1.0 General

- 1.1 Medium and high efficiency extended surface low pressure drop minipleat filters shall be Super Flow®-V models as manufactured by Flanders.
- 1.2 Filter sizes, efficiencies and capacities shall be as scheduled on the drawings.

### 2.0 Filter Construction

- 2.1 Filters shall consist of multiple minipleat panels bonded to flame-retardant plastic panels on top and bottom and aerodynamic design extruded aluminum struts.

### 3.0 Performance

- 3.1 Initial and final resistances shall not exceed the scheduled values.
- 3.2 The average efficiency shall be as determined by ASHRAE Standard 52.1 test methods.
- 3.3 ASHRAE efficiency 98% models shall be MERV 16, 95% model shall be MERV 14, 85% model shall be MERV 13, 75% model shall be MERV 12 by ASHRAE standard 52.2.
- 3.4 Filters shall be UL 900 Class 2 listed.

**Flanders Precisionaire**  
**Foremost in Air Filtration**  
**Engineered Products: 1-800-637-2803**  
**Replacement Products: 1-800-347-2220**

REPRESENTED BY:



The Filtrex Corporation  
806 Race Road  
Baltimore, MD 21221  
410.686.8600  
fax 410.686.8742  
www.tfcfiltrex.com