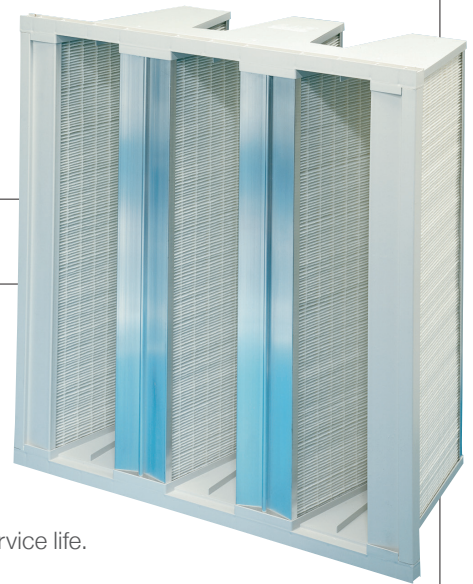


# VariCel® V

## HIGH EFFICIENCY SUPPORTED PLEAT FILTERS



- MERV 15, MERV 14, MERV 13, and MERV 11 efficiencies
- Excellent performance in difficult operating conditions
- Lightweight and easy to install
- Fully incinerable
- Single and double header models
- MERV 15 and MERV 14 available with antimicrobial
- MERV 13 and higher meet LEED® Project Certification efficiency requirements

The VariCel V filter is a high capacity, 6-panel, extended surface mini-pleat filter designed for use in commercial and industrial HVAC installations. The VariCel V filter delivers the desired air quality when used in systems with difficult operating conditions, such as variable air volume, turbulent airflow, repeated fan shutdown, or moderate to high humidity. VariCel V filters can be used in high velocity systems operating at up to 750 FPM.



Header on the end panels allows installation in reverse flow installations.

Multiple mini-pleat media packs, assembled into a series of V-banks, permit substantially more media to be contained in the VariCel V filter — up to 40% more than standard rigid cartridge filters. Maximum effective media area provides greater airflow capacity, low resistance, high dust holding capacity, and unusually long service life.

### Construction

The header and cell sides provide a sturdy construction that resists damage during shipping, handling, and operation. Constructed of plastic with aluminum structural supports, the VariCel V filter is fully incinerable.

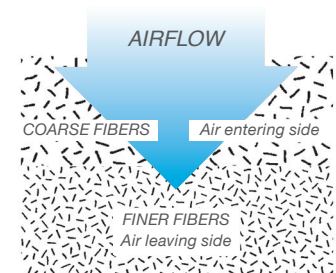
### Separators

The thermoplastic separators maintain uniform spacing between pleats to allow optimal flow of air into and through the filter. They also ensure large effective media area for low resistance and high dust holding capacity.

### Dual-density Media Reduces Operating Costs

VariCel V media is manufactured with two layers of glass fibers: coarse fibers on the air entering side, and finer fibers on the air leaving side.

Our dual-density design allows dirt particles to be collected throughout the entire depth of the media pack, utilizing the full filtering potential of the media and maximizing dust holding. Maximum dust holding capacity extends the life of the filter, minimizing operating costs.



### Specifications

**Maximum Operating Temperature:** 176°F (80°C)

**Media:** Moisture-resistant, dual-density microglass paper formed into pleats.

**Frame:** Plastic with aluminum structural supports.

**Separators:** Continuous beads of low profile thermoplastic material.

# VariCel® V

## Product Information

Rated Filter Face Velocity (FPM)	Nominal Size (Inches) (WxHxD)	Actual Size (Inches) (WxHxD)	Rated Airflow Capacity (CFM)			Rated Initial Resistance (in. w.g.)			Recommended Final Res. (in. w.g.)	Gross Media (sq. ft.)
			Standard	Medium	High	Standard	Medium	High		
<b>MERV 15 - Available with Antimicrobial</b>										
500/625	24 x 24 x 12	23¾ x 23¾ x 11½	2000	2500	—	.52	.73	.93	2.0	175
	24 x 20 x 12	23¾ x 19¾ x 11½	1675	2100	—	.52	.73	.93	2.0	140
	24 x 12 x 12	23¾ x 11¾ x 11½	1000	1250	—	.52	.73	.93	2.0	77
<b>MERV 14 - Available with Antimicrobial</b>										
500/625/750	24 x 24 x 12	23¾ x 23¾ x 11½	2000	2500	3000	.49	.69	.89	2.0	175
	24 x 20 x 12	23¾ x 19¾ x 11½	1675	2100	2500	.49	.69	.89	2.0	140
	24 x 12 x 12	23¾ x 11¾ x 11½	1000	1250	1500	.49	.69	.89	2.0	77
<b>MERV 13</b>										
500/625/750	24 x 24 x 12	23¾ x 23¾ x 11½	2000	2500	3000	.36	.51	.75	2.0	175
	24 x 20 x 12	23¾ x 19¾ x 11½	1675	2100	2500	.36	.51	.75	2.0	140
	24 x 12 x 12	23¾ x 11¾ x 11½	1000	1250	1500	.36	.51	.75	2.0	77
<b>MERV 11</b>										
500/625/750	24 x 24 x 12	23¾ x 23¾ x 11½	2000	2500	3000	.29	.44	.63	2.0	175
	24 x 20 x 12	23¾ x 19¾ x 11½	1675	2100	2500	.29	.44	.63	2.0	140
	24 x 12 x 12	23¾ x 11¾ x 11½	1000	1250	1500	.29	.44	.63	2.0	77

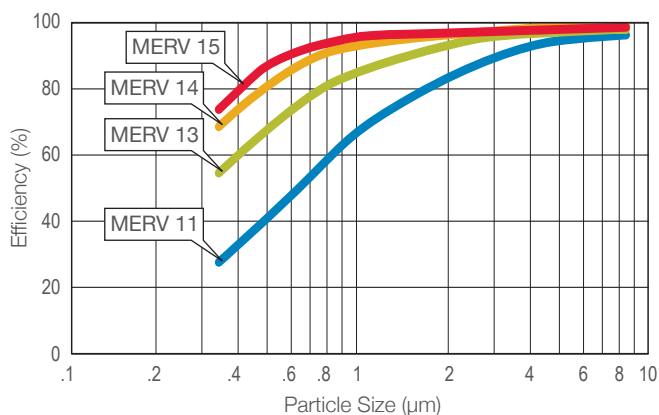
Width and height dimensions are interchangeable. VariCel V filters may be installed with the pleats either vertical or horizontal. All performance data is based on ASHRAE Standard 52.2. Performance tolerances conform to Section 7.4 of ARI Standard 850-93. VariCel V filters are UL Classified. Testing was performed according to UL Standard 900 and ULC-S111. VariCel V filters are designed for continuous operating temperatures up to 176°F (80°C). Burst Pressure: 12" w.g.+, based on ASHRAE test 7113.

### Metric Conversion Table

1.0 in. = 2.54 cm  
 1 CFM = 1.7 m<sup>3</sup>/h  
 1 ft<sup>2</sup> = 0.093 m<sup>2</sup>  
 1.0 in. w.g. = 249 Pa  
 1 FPM = .005 m/s

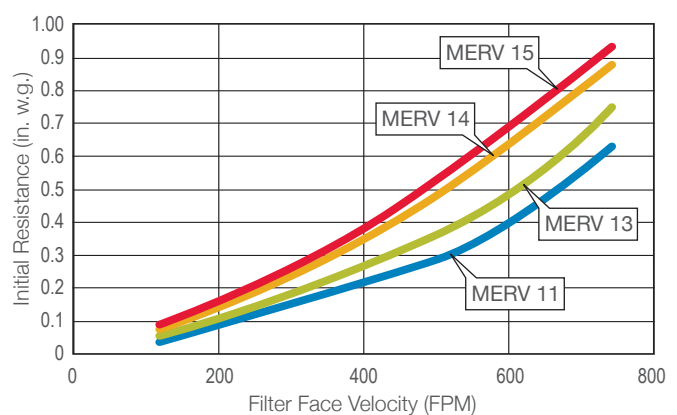
## Performance Data

### Composite Minimum Efficiency Curve



Tested in accordance with ASHRAE Standard 52.2. This chart shows the minimum efficiency the filter will provide throughout its service life.

### Initial Resistance vs. Filter Face Velocity



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

ISO Certified Firm  
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