

VariCel® 2+SC

(Standard Capacity)

EXTENDED SURFACE FILTERS



- Low initial resistance
- Holds up in harsh environments
- Utilizes AAF Flanders' exclusive Impress® pleating technology
- Engineered for a variety of applications
- Easy handling, installation, removal, and disposal
- Slim line packaging reduces shipping costs and storage space
- No header or single header models available
- Available in three efficiencies – MERV 15, MERV 14, and MERV 11

Utilizing AAF Flanders' exclusive Impress pleating technology, the VariCel 2+SC filter combines low resistance and high mechanical strength while maximizing energy efficiency.

Impress® Technology

Impress Technology is a patented pleat formation process that utilizes embossed media to form the optimal pleat geometry for low filter resistance. The embossing pattern created using Impress Technology allows for wider pleat spacing, unsurpassed mechanical strength, and reinforced V-pleats that will not pinch off.

Energy Efficient Design

The wider pleat openings and exits of the VariCel 2+SC filter deliver lower entrance and exit losses. This, combined with less restriction from separator material and better media utilization, delivers a low pressure drop. The lower operating resistance reduces operating costs and saves energy.

High Performance in Tough Operating Conditions

The VariCel 2+SC media is moisture resistant and can withstand intermittent exposure to water without affecting filter performance. The media pack is encased in high impact plastic cell sides and completely sealed in a water-based copolymer emulsion, keeping particulate from bypassing the filter media.

Impress pleat formation delivers a robust media pack with a burst strength exceeding the standard seen in the industry. Pleat formation and a center support bar make the filter mechanically stable so that the media resists distortion under high pressure loads.

Compact, Space-Saving Packaging

The slim line design enables four VariCel 2+SC filters to be shipped in a carton only 16 inches high, compared to most competitive filters that are shipped only one per carton. Shipping costs and storage space are significantly reduced.

Environmentally Friendly Disposal

The thinner depth makes disposal easy. VariCel 2+SC filters are only one-third the volume of other high efficiency filters, significantly reducing the contribution to landfills. With no metal components, they are also suitable for incineration.

Applications

VariCel 2+SC filters are appropriate for general HVAC and applications operating with variable air volume, turbulent airflow, and high humidity.

VariCel® 2+SC Filters

Product Information

⁽¹⁾ Rated Filter Face Velocity (FPM)	⁽²⁾ Nominal Size (inches) (W x H x D)	⁽²⁾ Actual Size (inches) (W x H x D)	⁽³⁾ Rated Airflow Capacity (CFM)	Box Style (NH) ⁽³⁾ Rated Initial Resistance (in. w.g.)	Header Style (SH) ⁽³⁾ Rated Initial Resistance (in. w.g.)	⁽⁴⁾ Recommended Final Resistance (in. w.g.)
⁽³⁾MERV 15						
500	24 x 24 x 4	23 $\frac{3}{8}$ x 23 $\frac{3}{8}$ x 3 $\frac{3}{4}$	2000	.58	.65	1.5
	20 x 25 x 4	19 $\frac{1}{2}$ x 24 $\frac{3}{8}$ x 3 $\frac{3}{4}$	1750	.58	.65	1.5
	20 x 24 x 4	19 $\frac{1}{2}$ x 23 $\frac{3}{8}$ x 3 $\frac{3}{4}$	1650	.58	.65	1.5
	20 x 20 x 4	19 $\frac{1}{2}$ x 19 $\frac{1}{2}$ x 3 $\frac{3}{4}$	1400	.58	.65	1.5
	18 x 24 x 4	17 $\frac{1}{2}$ x 23 $\frac{3}{8}$ x 3 $\frac{3}{4}$	1500	.58	.65	1.5
	16 x 25 x 4	15 $\frac{1}{2}$ x 24 $\frac{3}{8}$ x 3 $\frac{3}{4}$	1400	.58	.65	1.5
	16 x 20 x 4	15 $\frac{1}{2}$ x 19 $\frac{1}{2}$ x 3 $\frac{3}{4}$	1100	.58	.65	1.5
	12 x 24 x 4	11 $\frac{1}{2}$ x 23 $\frac{3}{8}$ x 3 $\frac{3}{4}$	1000	.58	.65	1.5
	12 x 12 x 4	11 $\frac{1}{2}$ x 11 $\frac{1}{2}$ x 3 $\frac{3}{4}$	500	.58	.65	1.5
⁽³⁾MERV 14						
500	24 x 24 x 4	23 $\frac{3}{8}$ x 23 $\frac{3}{8}$ x 3 $\frac{3}{4}$	2000	.50	.55	1.5
	20 x 25 x 4	19 $\frac{1}{2}$ x 24 $\frac{3}{8}$ x 3 $\frac{3}{4}$	1750	.50	.55	1.5
	20 x 24 x 4	19 $\frac{1}{2}$ x 23 $\frac{3}{8}$ x 3 $\frac{3}{4}$	1650	.50	.55	1.5
	20 x 20 x 4	19 $\frac{1}{2}$ x 19 $\frac{1}{2}$ x 3 $\frac{3}{4}$	1400	.50	.55	1.5
	18 x 24 x 4	17 $\frac{1}{2}$ x 23 $\frac{3}{8}$ x 3 $\frac{3}{4}$	1500	.50	.55	1.5
	16 x 25 x 4	15 $\frac{1}{2}$ x 24 $\frac{3}{8}$ x 3 $\frac{3}{4}$	1400	.50	.55	1.5
	16 x 20 x 4	15 $\frac{1}{2}$ x 19 $\frac{1}{2}$ x 3 $\frac{3}{4}$	1100	.50	.55	1.5
	12 x 24 x 4	11 $\frac{1}{2}$ x 23 $\frac{3}{8}$ x 3 $\frac{3}{4}$	1000	.50	.55	1.5
	12 x 12 x 4	11 $\frac{1}{2}$ x 11 $\frac{1}{2}$ x 3 $\frac{3}{4}$	500	.50	.55	1.5
⁽³⁾MERV 11						
500	24 x 24 x 4	23 $\frac{3}{8}$ x 23 $\frac{3}{8}$ x 3 $\frac{3}{4}$	2000	.28	.35	1.5
	20 x 25 x 4	19 $\frac{1}{2}$ x 24 $\frac{3}{8}$ x 3 $\frac{3}{4}$	1750	.28	.35	1.5
	20 x 24 x 4	19 $\frac{1}{2}$ x 23 $\frac{3}{8}$ x 3 $\frac{3}{4}$	1650	.28	.35	1.5
	20 x 20 x 4	19 $\frac{1}{2}$ x 19 $\frac{1}{2}$ x 3 $\frac{3}{4}$	1400	.28	.35	1.5
	18 x 24 x 4	17 $\frac{1}{2}$ x 23 $\frac{3}{8}$ x 3 $\frac{3}{4}$	1500	.28	.35	1.5
	16 x 25 x 4	15 $\frac{1}{2}$ x 24 $\frac{3}{8}$ x 3 $\frac{3}{4}$	1400	.28	.35	1.5
	16 x 20 x 4	15 $\frac{1}{2}$ x 19 $\frac{1}{2}$ x 3 $\frac{3}{4}$	1100	.28	.35	1.5
	12 x 24 x 4	11 $\frac{1}{2}$ x 23 $\frac{3}{8}$ x 3 $\frac{3}{4}$	1000	.28	.35	1.5
	12 x 12 x 4	11 $\frac{1}{2}$ x 11 $\frac{1}{2}$ x 3 $\frac{3}{4}$	500	.28	.35	1.5

(1) Filters can be operated up to 125% of rated face velocity.

(2) Width and height dimensions are interchangeable. VariCel 2+SC filters may be installed with the pleats either vertical or horizontal.

(3) All performance data based on ASHRAE Standard 52.2. Performance tolerances conform to Section 7.4 of ARI Standard 850-93. For maximum service life, VariCel 2+SC filters should always be operated with a prefilter.

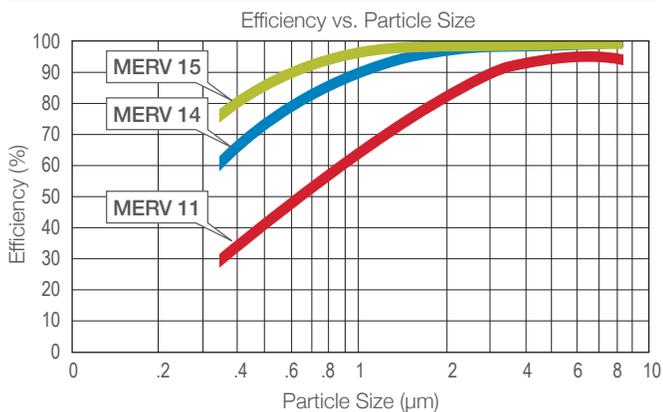
(4) The final operating resistance shown is typical of systems currently in operation. Filters can be operated to a higher or lower final resistance. The most economical operating conditions can be determined by contacting your local AAF Flanders representative.

Underwriters Laboratories Classification All VariCel 2+SC filters are UL Classified. Testing was performed according to UL Standard 900 and ULC-S111.

Continuous Operating Temperature Limits: 150°F (66°C)

Performance Data

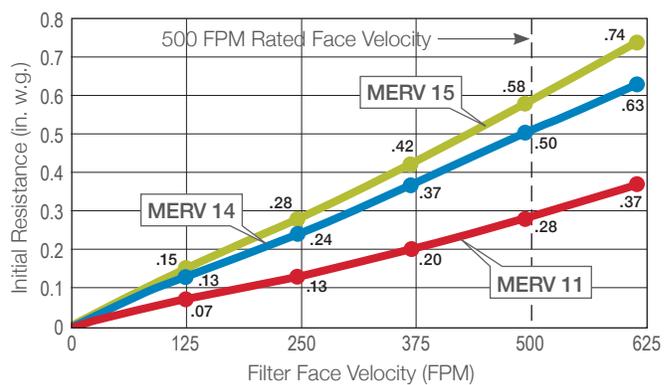
Composite Minimum Efficiency Curve



Tested in accordance with ASHRAE Standard 52.2.

VariCel® is a registered trademark of AAF International in the U.S. and other countries.

Initial Resistance vs. Filter Face Velocity



U.S. Patent
No. 6,685,833 B2



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