THE WORLD LEADER IN CLEAN AIR SOLUTIONS

VariCel® 2+

EXTENDED SURFACE FILTERS

Key Features

- Low pressure drop with a high mechanical strength saves on overall operating costs
- Excellent performance under difficult operating conditions
- Lightweight, damage-resistant and easy to handle and install
- Slimline design significantly reduces shipping, storage and disposal cost
- Available in MERV 11, MERV 14 and MERV 15 efficiencies
- 4" filter depth
- Single-header or box-style available
- Maximum operating temperature: 150°F (66°C)
- UL 900 classified

Applications

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

- Beverage, Dairy & Food
- Data Centers
- Hotels
- K 12 Schools
- Multi-Use Properties
- Museums
- Universities

Overview

The VariCel 2+ is an advanced air filter featuring innovative embossing technology that delivers high-capacity performance in a compact design. Its optimized synthetic media provides



excellent dust holding capacity, moisture resistance, and durability, making it ideal for challenging HVAC environments

with variable air volume. Despite being only 4 inches deep, the filter offers performance comparable to deeper 22-inch bag filters, with a rigid structure that prevents particulate migration and ensures consistent filtration efficiency.

Energy Savings Design

The VariCel 2+ filter's wider pleat openings and reduced separator material deliver lower pressure drop, minimizing operating resistance. This design saves energy and makes it the most efficient 4" filter available.

Long Service Life

With low initial resistance, ideal pleat spacing, and high media density, the VariCel 2+ maximizes particle management and media utilization. Its high Dust Holding Capacity (DHC) translates to extended service life and fewer filter changeouts.

High Performance in Tough Conditions

Moisture-resistant media encased in high-impact plastic cell sides and sealed with a water-based copolymer emulsion ensures consistent performance, even with intermittent water exposure.

Compact, Space-Saving Packaging

The slim design allows four filters to be shipped in a 16-inch carton, significantly reducing shipping costs and storage space compared to competitive products.

Environmentally Friendly Disposal

Its slender profile simplifies disposal while eliminating glue for pleat binding, reducing environmental waste. With a volume one-third that of comparable filters and no metal components, the VariCel 2+ offers efficient incineration and landfill reduction options.



VariCel® 2+ Filters

Performance Data





Tested in accordance with ASHRAE Standard 52.2. VariCel® is a registered trademark of AAF International in the U.S. and other countries.

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⁾ ME	RV 15	1	
500	24 x 24 x 4	233/8 x 233/8 x 33/4	2000	.41	.47	1.5
	20 x 25 x 4	193/8 x 243/8 x 33/4	1750	.41	.47	1.5
	20 x 24 x 4	193/8 x 233/8 x 33/4	1650	.41	.47	1.5
	20 x 20 x 4	193/8 x 193/8 x 33/4	1400	.41	.47	1.5
	18 x 24 x 4	173/8 x 233/8 x 33/4	1500	.41	.47	1.5
	16 x 25 x 4	153/8 x 243/8 x 33/4	1400	.41	.47	1.5
	16 x 20 x 4	153/8 x 193/8 x 33/4	1100	.41	.47	1.5
	12 x 24 x 4	113/8 x 233/8 x 33/4	1000	.41	.47	1.5
	12 x 12 x 4	113/8 x 113/8 x 33/4	500	.41	.47	1.5
			⁽³⁾ ME	RV 14		
500	24 x 24 x 4	233/8 x 233/8 x 33/4	2000	.33	.39	1.5
	20 x 25 x 4	193/8 x 243/8 x 33/4	1750	.33	.39	1.5
	20 x 24 x 4	19¾ x 23¾ x 3¾	1650	.33	.39	1.5
	20 x 20 x 4	193 x 193 x 334	1400	.33	.39	1.5
	18 x 24 x 4	173/8 x 233/8 x 33/4	1500	.33	.39	1.5
	16 x 25 x 4	15 ³ / ₈ x 24 ³ / ₈ x 3 ³ / ₄	1400	.33	.39	1.5
	16 x 20 x 4	15 ³ / ₈ x 19 ³ / ₈ x 3 ³ / ₄	1100	.33	.39	1.5
	12 x 24 x 4	11 ³ % x 23 ³ % x 3 ³ ⁄4	1000	.33	.39	1.5
	12 x 12 x 4	11 ³ / ₈ x 11 ³ / ₈ x 3 ³ / ₄	500	.33	.39	1.5
			⁽³⁾ ME	RV 11		
500	24 x 24 x 4	233/8 x 233/8 x 33/4	2000	.27	.32	1.5
	20 x 25 x 4	193/8 x 243/8 x 33/4	1750	.27	.32	1.5
	20 x 24 x 4	193/8 x 233/8 x 33/4	1650	.27	.32	1.5
	20 x 20 x 4	193/8 x 193/8 x 33/4	1400	.27	.32	1.5
	18 x 24 x 4	173/8 x 233/8 x 33/4	1500	.27	.32	1.5
	16 x 25 x 4	153/8 x 243/8 x 33/4	1400	.27	.32	1.5
	16 x 20 x 4	15 ³ / ₈ x 19 ³ / ₈ x 3 ³ / ₄	1100	.27	.32	1.5
	12 x 24 x 4	113/8 x 233/8 x 33/4	1000	.27	.32	1.5
	12 x 12 x 4	113/8 x 113/8 x 33/4	500	.27	.32	1.5

 (1) Filters can be operated up to 125% of rated face velocity.
(2) Width and height dimensions are interchangeable. VariCel 2+ 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+ 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 representative.

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

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

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

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