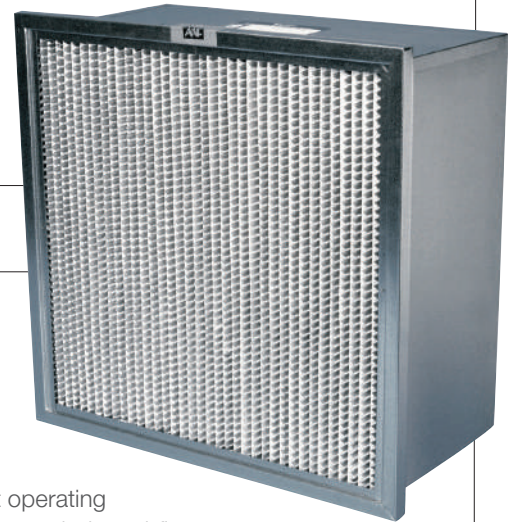


VariCel®

HIGH EFFICIENCY SUPPORTED PLEAT FILTERS



- Available in efficiencies ePM1 and ePM10 (ISO 16890); M6–F8 (EN779:2012)
- Excellent performance in difficult operating conditions
- High airflow capacity 3400 m³/h
- Temperature range 70–150 °C

The VariCel filter is a high capacity, extended surface, supported pleat filter engineered for a variety of applications. With a supported pleat media pack, the VariCel filter's rigid construction maintains a compact, unitized structure even under difficult operating conditions, such as variable air volume, turbulent airflow, re-peated fan shutdown, high temperature operation, high humidity, or intermittent exposure to water, such as seacoast installations. Variable air velocity and repeated fan shutdown do not compromise performance.

Designed to Improve Indoor Air Quality

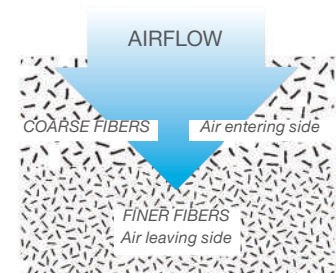
VariCel filters with antimicrobial are designed specifically to improve Indoor Air Quality (IAQ). These air filters are designed to trap and concentrate particulate air contaminants, including viable fungal and bacterial spores. The presence of antimicrobial preservative in the filter media is intended to preserve the integrity of the media throughout the useful life of the filter. Antimicrobial preservatives are not meant to increase the efficiency of the filter, nor to kill microorganisms "on the fly" as they pass through a filter. Antimicrobial is EPA registered and environmentally safe.

Dual-Density Media Reduces Operating Costs

VariCel media is manufactured with two layers of glass fibers, coarser 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 filter, utilizing the full cleaning potential of the media. Maximum dust holding capacity extends the life of the filter, minimizing operating costs.

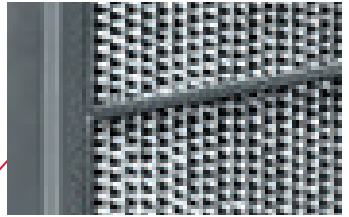
The water-resistant media can withstand intermittent exposure to water, making VariCel filters ideal for installations in humid areas, or where the filters are exposed to moisture.



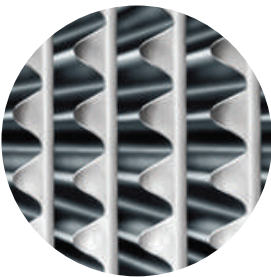
VariCel® Filters



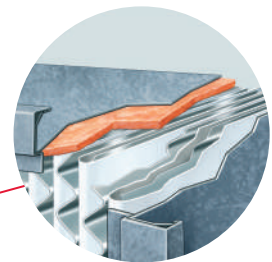
Crimped Rear Flanges (SH) are rolled over and riveted to add strength, eliminate sharp edges, and prevent bypass leakage.



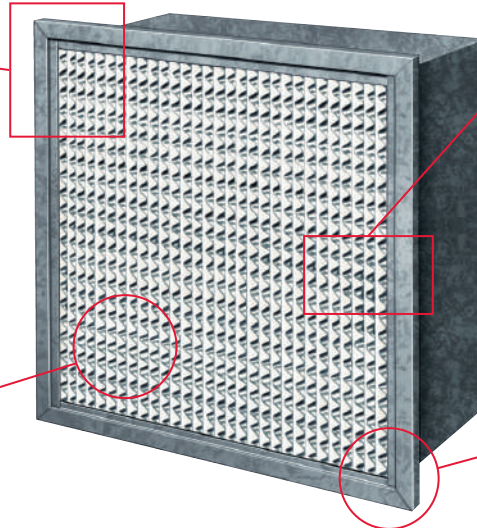
Media Pack Restraint Steel Brace on air leaving side adds support to the media pack.



Corrugated Aluminum Separators with Rolled Edges maintain uniform pleat spacing for optimum airflow. The separators are rolled to eliminate sharp edges, preventing media damage during shipping and personal injury during installation.



Media Pack Sealant – A layer of high efficiency media seals the media pack into the cell sides. The media sealant prevents by-pass leakage and damage to the media and separators during shipping and handling. By allowing slight movement of the media pack when the filter is jarred, the cushioning sealant helps prevent tears and punctures to the media.



Built Rugged for Dependable Performance

The VariCel filter's rigid construction with supported pleat media pack maintains a compact, unitized structure even under tough operating conditions. Variable air velocity and repeated fan shutdown do not compromise performance.

Unitized Construction

Interlocked header and cell sides, along the entire length of each side, provide maximum sealing. Competitive filters are designed with loose fitting headers that allow greater potential for bypass leakage.

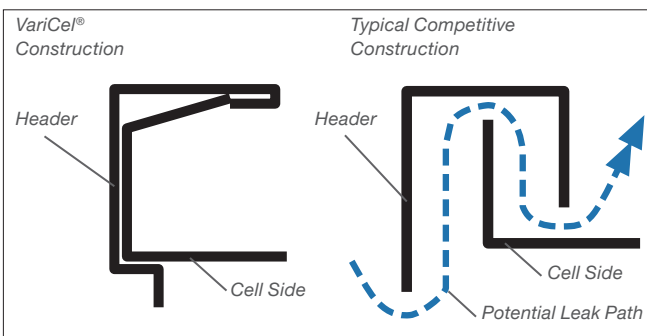
Pleats and Separators Bonded for Strength

During the pleating process, spots of glue are applied to bond each separator to the adjacent pleat. This solidifies the media pack to minimize movement and prevent media damage. Burst strength is increased to prevent the filter from blowing out under variable air volume conditions or unusually high resistance.

Galvanized steel headers and cell sides resist damage during shipping and handling, and prevent corrosion over long service life (HT VariCel filters are constructed of aluminized steel).

Easy Installation

Rigid construction and minimum depth make VariCel filters easy to install in all types of systems.

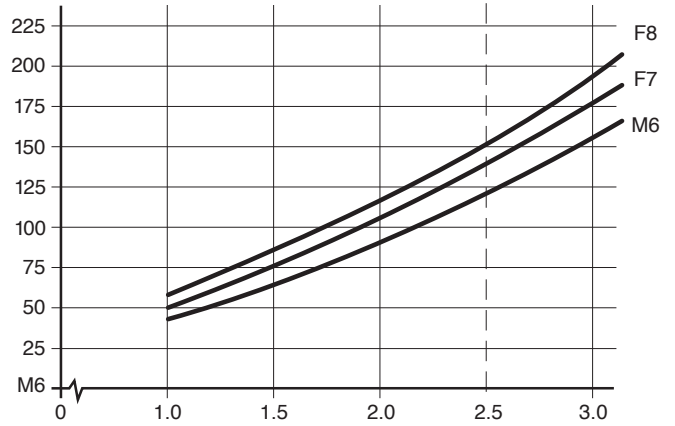


Specifications

- Media: High efficiency, water resistant glass fiber
- Cell sides: Corrosion resistant galvanized steel
- Header: Extruded aluminium
- Separators: Corrugated aluminium
- Support: Corrosion resistant galvanized steel (air leaving side)
- Disposal: Landfill
- Max Operating Temperature: 70 °C with gasket – 150 °C without gasket, provided final resistance is not exceeded

Performance Data

Initial Resistance vs Face Velocity



Product information

Filter	Part number	Dimensions (mm) W x H x D	Filter area (m ²)	Number of pockets or V	Nominal airflow (m ³ /h)	DHC acc. EN779 (g)	EN779:2012 Classification	Initial dp (Pa)	Energy Rating	ISO 16890 Classification	ePM1 (%)	ePM2,5 (%)	ePM10 (%)
VariCel® V6S	28-5100-0065	592 x 592 x 292	9,3	-	3400	250	M6	120	E	ePM10 70%	28	42	71
VariCel® V7S	28-6100-0065	592 x 592 x 292	9,3	-	3400	175	F7	140	E	ePM1 50%	54	64	82
VariCel® V8S	28-7100-0065	592 x 592 x 292	9,3	-	3400	225	F8	150	D	ePM1 65%	68	76	90

Further dimensions are available on request. Until December 31st 2017 filtration efficiency values are certified according to EN779:2012. From January 1st 2018 filtration efficiency values are certified according to ISO 16890.

VariCel® Filters

Legend

Type	V	VariCel
Filter Classification	6	M6 to EN779:2012
	7	F7 to EN779:2012
	8	F8 to EN779:2012
Execution	S	Single extruded header
	SF	Single extruded header, galvanized faceguard
	DF	Double extruded header, galvanized faceguard
	P	VariCel, MDF (wood) size always in mm
Gasket	None	No gasket
	C	Flat Neoprene gasket at rear of flange (CAS)
	D	Flat Neoprene gasket at front of flange (DAS)
	B	Flat Neoprene gasket both sides (only with DF)
Nominal size code (inch)	242412	Standard sizes are 12, 16, 18, 20, 24, 25
Metric sizes	–	Always stated in mm only
Header Size (mm)	None	25 mm extruded aluminum header
	A	20 mm extruded aluminum header

Example: V6 SC 242412A

AAF is participating in the Eurovent Certification Programme for Air Filters. The "Fine Filter range" acc. to EN 779 is certified under the number (07.01.333) and presented in the Directory of Certified Air Filters on Eurovent website: www.eurovent-certification.com

VariCel® is a registered trademark of AAF International in Europe and other countries.



AAF International
European Headquarters
Robert-Bosch-Straße 30-32, 64625 Bensheim
Tel: +49 6251 80368 – 0, Fax: +49 6251 80368 – 20
aafintl.com

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