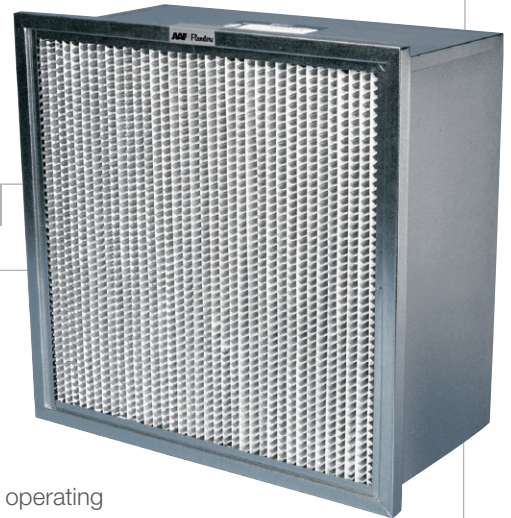


VariCel®

## HIGH EFFICIENCY SUPPORTED PLEAT FILTERS

- MERV 15/15A, MERV 14/14A, MERV 13/13A, and MERV 11 efficiencies
- Excellent performance in difficult operating conditions
- MERV 14/14A available with antimicrobial
- MERV 15/15A, MERV 14/14A, and MERV 13/13A meet LEED® Project Certification efficiency requirements
- UL Classified

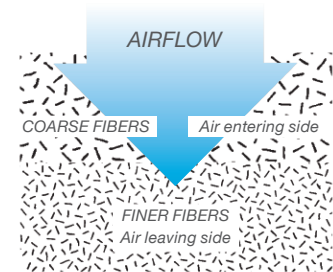
The VariCel filter is a high capacity, extended surface, supported pleat filter engineered for a variety of applications. With a supported pleat media pack, the VariCel filter's rigid construction maintains a compact, unitized structure even under difficult operating conditions, such as variable air volume, turbulent airflow, repeated 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.



### 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.

### Designed to Improve Indoor Air Quality

VariCel high-efficiency filters are designed specifically to improve indoor air quality (IAQ). The MERV 14/14A and MERV 15/15A versions of the filter are particularly effective against air contaminants that are one micron or smaller in size. These contaminants include bacteria, viruses, and carrier particles for these pathogens. Removal of these particles helps ensure the best possible IAQ downstream of the filter.

Additionally, the MERV 14/14A efficiency filter is available with antimicrobial-treated media, intended to preserve the integrity of the media throughout the life of the filter. This antimicrobial preservative neither increases particle efficiency, nor kills microorganisms "on the fly" as they pass through the filter.

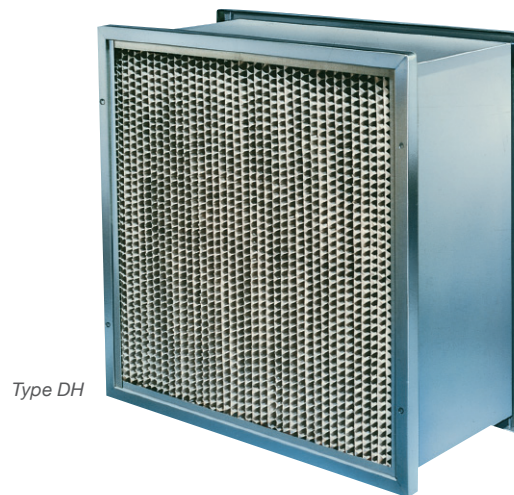
# VariCel® Filters

## Engineered for a Variety of Applications

**Type SH** Single Header VariCel filters are designed for systems originally supplied by AAF. A unique  $\frac{13}{16}$ " flanged header on the air entering side allows the filter to be easily inserted and latched into front and side access systems.



**Type DH** Double Header VariCel filters are designed to upgrade air cleaning performance and reliability. Two  $\frac{13}{16}$ " thick flanged headers make the filters compatible with the holding frames and latching devices of various manufacturers, including rear access systems.



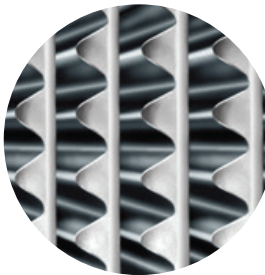
**Type HT (High Temperature) Series** VariCel filters are designed for systems operating from 350°-900°F. Constructed of aluminized steel, HT VariCel filters offer rated efficiency with proven reliability over the life of the filter. See page 4 for models and temperature limits. HT VariCel filters are offered in a 12" depth, MERV 14/14A and MERV 11.



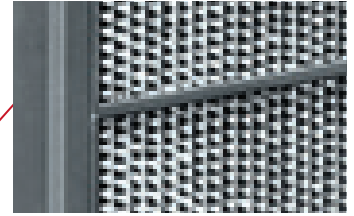
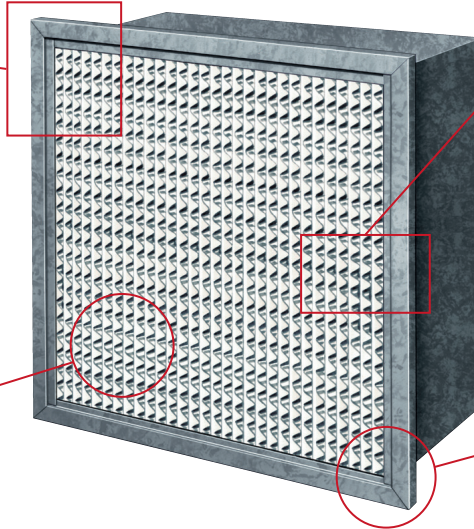
**XL Series** VariCel filters, single header (XL-S) and double header (XL-D), contain up to 67% more media and offer more than twice the service life of standard single and double header models. XL Series VariCel filters are offered in a 12" depth, MERV 14/14A and MERV 11.



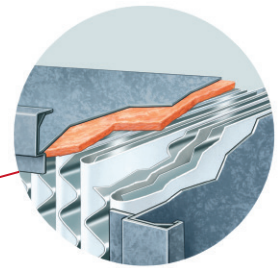
**Crimped Rear Flanges (SH)** are rolled over and riveted to add strength, eliminate sharp edges, and prevent bypass leakage.



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



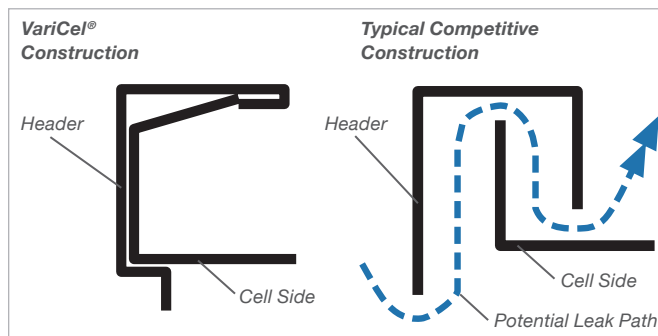
**Media Pack Sealant** – A layer of high efficiency media seals the media pack into the cell sides. The media sealant prevents by-pass leakage and damage to the media and separators during shipping and handling. By allowing slight movement of the media pack when the filter is jarred, the cushioning sealant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

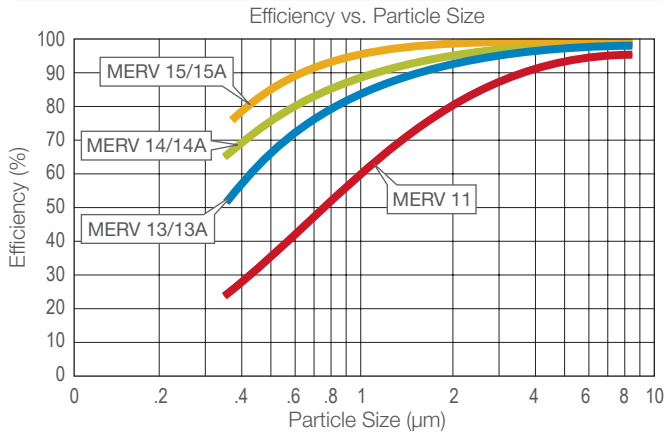
### Easy Installation

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

# VariCel® Filters

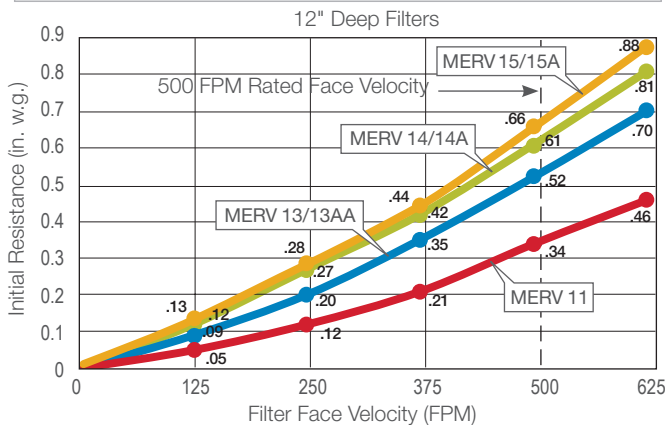
## Performance Data

### Composite Minimum Efficiency Curve



\*Tested in accordance with ASHRAE Standard 52.2.

### Initial Resistance vs. Filter Face Velocity



12" deep filters are rated at 500 FPM filter face velocity.  
 6" deep filters are rated at 250 FPM filter face velocity.  
 Recommended final resistance for VariCel filters is 1.5" w.g.  
 Recommended final resistance for HT VariCel filters is 1.2" w.g.

### Operating Temperature Limits

VariCel Model	Temperature Limit
Types SH, DH, XL	350°F 177°C
Type HT-500	500°F 260°C
Type HT-725	750°F 385°C
Type HT-900	900°F 482°C

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

### Prefilters Can Double VariCel® Filter Life

Using high-efficiency pleated prefilters such as AAF's MEGApleat®, PerfectPleat®, or PREpleat® filters will greatly extend the life of VariCel filters.

### Options

- VariCel filters can be ordered with faceguards made of flattened, expanded, galvanized, or aluminized steel on one or both sides of the filter.
- Factory-installed gaskets are available on the front, back, or side(s) of the header(s).
- Vinyl coated separators are available for corrosive conditions.
- 1½" Single Header VariCel filters, designed for other manufacturers' equipment, are also available.

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



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AFP-1-158BB 02/25