



## **VARIFLOW™**

*High and Medium Efficiency  
Extended Surface Air Filters*

- **Three efficiencies -**
  - 90 - 95% (MERV-14)
  - 80 - 85% (MERV-13)
  - 60 - 65% (MERV-11)
- **Six styles of construction**
- **Eight sizes**
- **Two depths - 6" and 12"**
- **Compact design saves valuable in-line duct space**
- **Ideal for variable volume systems and difficult operating conditions**



**Box Construction  
(No header)**



**Single Header**



**Double Header**

# VARIFLOW™

High and Medium Efficiency  
Extended Surface Air Filters

Variflow filters are designed for high and medium efficiency air filtration in all types of commercial, industrial and institutional HVAC installations.

- Three efficiencies: (MERV 14) 90 - 95%, (MERV 13) 80 - 85%, (MERV 11) 60 - 65%
- Six styles of construction
- Eight sizes
- Two depths - 6" and 12"
- Compact design saves valuable in-line duct space
- Ideal for variable volume systems and difficult operating conditions
- Water resistant microglass paper media
- 90% efficiency available with antimicrobial treated media (optional)



## Select from Six Styles of Construction

### Metal Construction - U.L. Class I



Style VMA - Box Construction (No header)



Style VMB - Single Header



Style VMC - Double Header

### Particle Board Construction - U.L. Class 2



Style VFA - Box Construction (No header)



Style VFB - Single Header



Style VFC - Double Header

*Rigid Cell Design Handles  
Difficult Operating Conditions*



### Designed for VAV Systems, Turbulent Conditions

The media pack, consisting of pleated microglass paper media and corrugated aluminum separators, is sealed inside the cell sides forming a totally rigid filter assembly.

Rigid cell construction is recommended for variable volume systems. Fluctuations in filter face velocity, turbulent air flow or repeated fan shutdown have no effect on filter integrity or performance.

### Ultra Fine Water Resistant Media

Variflow media is made from ultra fine fiber microglass paper. Each efficiency has its own formulation for fiber size and density. Paper mat media is unaffected by humidity or intermittent exposure to water. Water does not pass through media, but causes a temporary rise in resistance, which quickly falls back to normal levels as the moisture evaporates.

Variflow filters are widely used in areas with high humidity or in systems where sensible moisture is likely to reach the filter.

### Minimum Filter Depth Saves Space

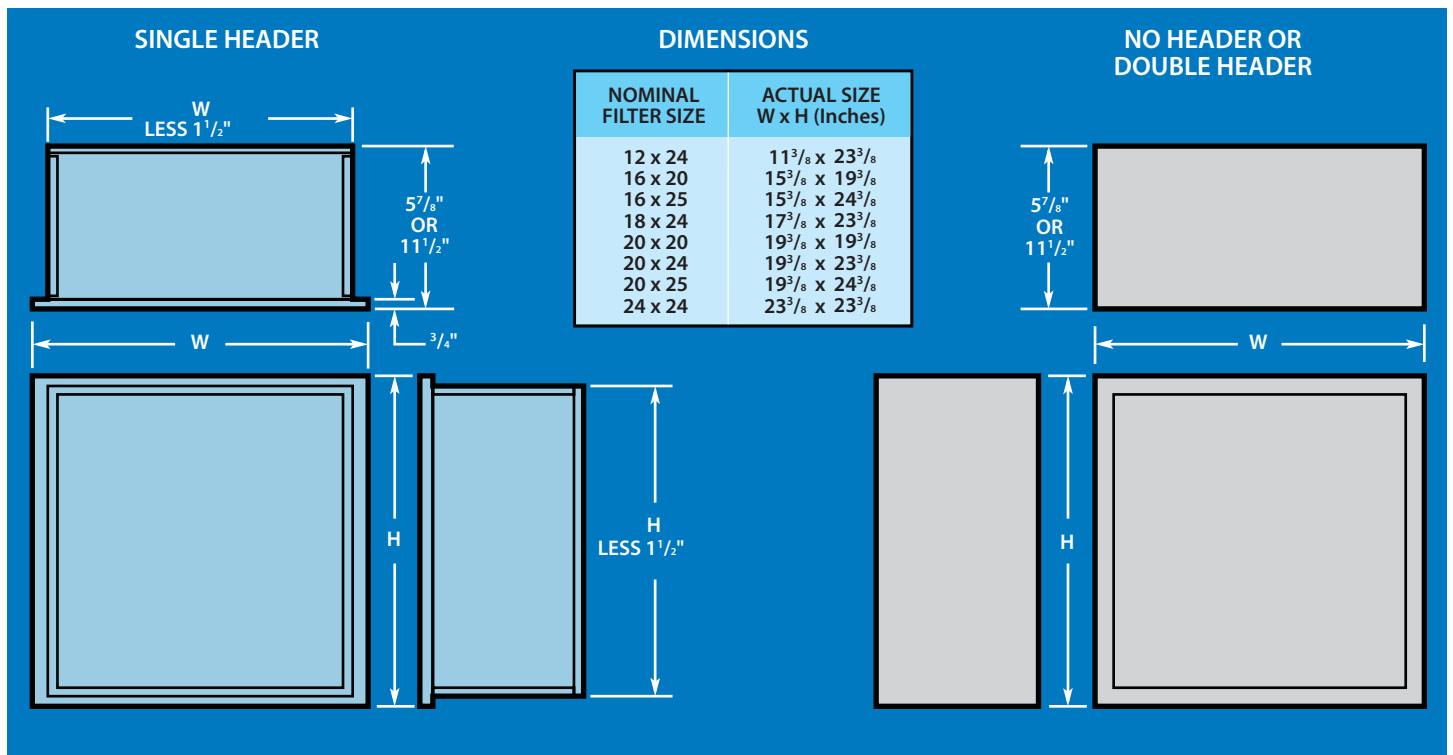
Variflow filters are only 6" deep (250 FPM) or 12" deep (500 FPM), saving valuable space in designing the air filter section of the HVAC system.

### Available with Antimicrobial Treatment

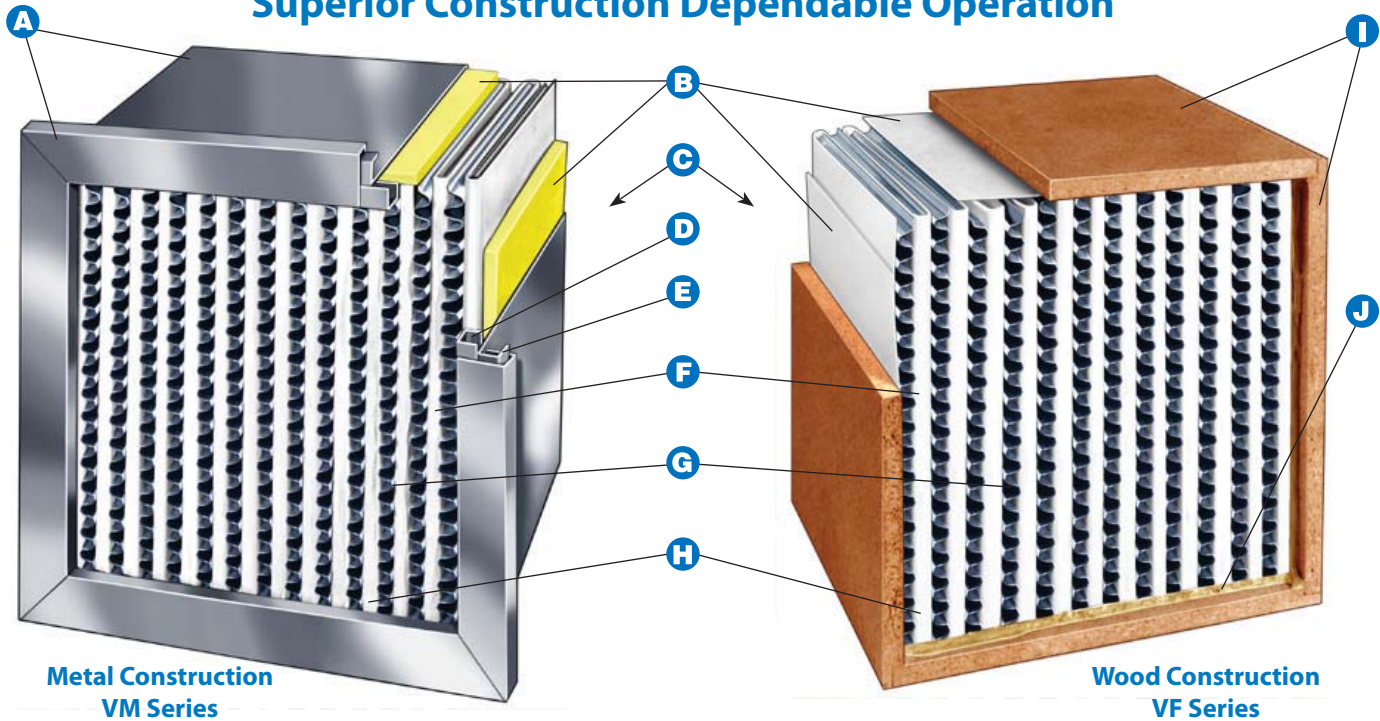
90 - 95% Bio•Pure Variflow filters are treated with an EPA registered antimicrobial agent to inhibit growth of bacteria, mold, mildew and fungi on the media.

### High Temperature Applications

All metal construction and microglass paper media also make Variflow filters suitable for high temperature applications up to 350° F. (Above 200° F, the recommended final resistance of 1.2" w.g. should not be exceeded.) For higher temperatures (up to 900° F), High Temperature Variflow filters made of aluminized steel are available.



## Superior Construction Dependable Operation



**Metal Construction**  
VM Series

**Wood Construction**  
VF Series

### **A Galvanized Steel Cell Sides and Header**

Constructed of 24 gauge steel. Rigid design. 350°F operating temperature limit.

### **B Glass Fiber Media Pack Sealant**

The media pack in metal Variflows is sealed on all four sides with a layer of high loft microglass fiber media. The sealant prevents bypass leakage around the pack and also cushions the pack against damage during shipping and handling. Wood Variflows are sealed with a liner of microglass paper media.

### **C Faceguard - Air leaving Side (not shown)**

An expanded metal screen is installed on the downstream side of all metal Variflows to reinforce and protect the media pack.

### **D Spacer**

A U-shaped spacer is inserted inside the header to firmly seat the media pack against the cell sides. The spacer prevents movement of the pack and adds rigidity to the filter assembly.

### **E Snap Lock Assembly**

Metal Variflows are assembled with a Snap Lock design using no rivets. The cell sides are mechanically fastened to the header providing rigid construction and no leakage.

The filters are supplied with an expanded metal faceguard on the air leaving side (not shown). An upstream faceguard is optional. Factory applied gaskets are also available.

### **F Ultrafine Microglass Paper Media**

The media is produced from glass microfibers which are processed into a paper like mat.

### **G Safety Edge Aluminum Separators**

Corrugated aluminum separators maintain proper spacing between pleats for minimum resistance and allow full utilization of the media. The edges of the separators are rolled (hemmed) to prevent damage to the media and reduce risk of injury to maintenance personnel. For corrosive conditions, vinyl coated separators are available.



*Safety edge corrugated separators maintain pleat spacing.*

### **H Recessed Media Pack**

To protect the media and separators from shipping and handling damage, the media pack is recessed from the outer edges of the cell sides or header.

### **I Particle Board Cell Sides**

Wood Variflows are made with fire retardant particle board. Maximum operating temperature is 200°F. When headers are required (Style VFB or VFC) galvanized steel headers are installed.

### **J Rubber Base Media Pack Sealant**

The media pack in wood Variflows is sealed to the inside of the cell sides with a rubber base sealant applied around the perimeter of the pack on both sides of the filter. The sealant prevents bypass leakage around the media pack.



[www.airguard.com](http://www.airguard.com)



CLARCOR Air Filtration Products

100 River Ridge Circle • Jeffersonville, IN 47130

Customer Care Team: 1-866-247-4827 • Fax: 1-800-784-3458

Email: [mailbag@airguard.com](mailto:mailbag@airguard.com) • [www.airguard.com](http://www.airguard.com)

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