V-FORCE™
High Efficiency Extended Surface Mini-Pleat Filters

Featuring Dynamic Double-V Design
- All Plastic Construction
- 100% Synthetic Media
- Fully Incinerable
- Moisture Resistant
- Chemical Resistant
- Rigid Cell Design
- Low Resistance
- Light Weight
- U.L. Class 1

LEED/Green Building
- Sustainable Component for a LEED/Green Building Initiative (Leadership in Energy and Environment Design)
- Exceeds LEED/Green requirement of MERV 13
- Lower Energy Cost
V-FORCE™
High Efficiency Extended Surface Mini-Pleat Filters

V-FORCE filters offer an excellent option for applications currently using rigid cell style extended surface filters. They are a good replacement for corrugated separator style or supported pleat style rigid filters.

- All Plastic Construction
- 100% Synthetic Media
- Fully Incinerable
- Moisture and Chemical Resistant
- Rigid Cell Design
- Low Resistance
- Light Weight
- U.L. Class 1

V-FORCE filters are made with four mini-pleat media packs fashioned into two V-shaped assemblies. The inset photo shows that the end panels are made with a notch to attach the spring latch used to secure the filter in the holding frame for reverse flow installations.

**All Plastic Construction – No Metal Components**
V-FORCE filters are made from high strength, high impact polystyrene plastic. They contain no metal components. No rust, no corrosion.

**100% Synthetic Media – Durable, Damage Resistant**
V-FORCE filters are made with synthetic media. It is extremely durable, resists tearing and abrasion, and is highly damage resistant. No more media damage during shipping, handling, or installation. This media is just plain tough.

**Fully Incinerable – Aids Disposal**
All plastic components with synthetic media make V-FORCE filters completely incinerable. Growing restrictions on landfills in many areas make incineration the most viable disposal option.

**Moisture and Chemical Resistant**
High impact polystyrene plastic components and synthetic media make V-FORCE filters suitable for installation in systems where high moisture is present. They are also unaffected by some chemical or corrosive conditions.

**Rigid Cell Design – Handles Difficult Operating Conditions**
Rigid cell design mini-pleat packs, all plastic components and 100% synthetic media make V-FORCE filters ideal for use in the most demanding installations, including variable air volume, high air flow, turbulence, repeated fan shut down, high moisture and some chemical or corrosive conditions.

**Low Resistance – Saves Energy**
The Double-V design consisting of four mini-pleat media packs with glue bead separators enable V-FORCE filters to operate at low resistance to air flow. The wide open entrance into the filter creates a dynamically shaped air flow pattern for minimum pressure drop and maximum energy savings.

**Light Weight – Saves on Shipping, Transporting**
Compare the weight of V-FORCE filters to other high efficiency rigid filters. Less weight reduces shipping costs and simplifies transporting them to and from the plenum. Installation is also faster and easier.
The Double-V design creates low resistance by presenting a wide open entrance into the filter allowing air to freely enter and exit at very low resistance. The mini pleat media packs are set at an angle to the direction of the incoming air to direct air flow through the pleat packs and out the back side with minimum restriction.

**Dynamic Double-V Design Creates Low Resistance**
- The Double-V design creates a wide open entrance into the filter resulting in low resistance and full use of media.

**Economical Upgrade for Other Rigid Cell Filters**
- V-FORCE filters are an ideal upgrade for other styles of rigid cell filters, including corrugated separator style and supported pleat style.
- The Dynamic Double-V design provides an unbeatable combination of low resistance, high dust holding capacity and competitive price compared to these products.

**Mini-Pleat Media Packs Made with Glue Bead Separators**
- The media is pleated into mini-packs using continuous glue bead separators. This creates a high ratio of media area to filter face area for low resistance, high dust holding capacity and long service life.

- The glue bead separators bond the pleats into a highly rigid pack that maintains uniform spacing in all types of operating conditions. The pleats hold their shape and do not deform or collapse as the dirt load builds and resistance rises. Uniform pleat spacing allows dirt to load evenly over every square inch of filter surface area. The media is fully utilized with no blocking off.

If you are using other styles of rigid cell extended surface filters, compare performance and price to V-FORCE filters.
# V-FORCE™

High Efficiency Extended Surface Mini-Pleat Filters

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Nominal Size Inches (HxWxD)</th>
<th>Actual Size Inches (HxWxD)</th>
<th>Rated Air Flow Capacity (CFM)</th>
<th>Initial Resistance (In. W. G.) @ Rated Air Flow</th>
<th>Recommended Final Resistance (In. W. G.)</th>
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<tbody>
<tr>
<td>VPP2V-S-9503</td>
<td>12x24x12</td>
<td>11½ x 23½ x 11½</td>
<td>1000</td>
<td>.46”</td>
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1. All performance data is based on the ASHRAE 52.2-2007 Test Standard. Data based on 24x24 size at a test velocity of 492 FPM.
2. Width and height dimensions are interchangeable. V-FORCE filters can be installed with the pleats vertical or horizontal
3. Continuous Operating Temperature: 140°F (60°C).

**Underwriters Laboratories Inc. Classification:** V-FORCE filters are classified Class 1 per U.L. Standard 900.

**Sustainable Component for a LEED/Green Building Initiative.**