

# Ultravation® **MERV 11** **Progressive** **Media Filtration**

## With **UltraStrand™** **fiber technology**

*The next generation in pleated filters, Ultravation® Progressive Media performs well beyond regular pleated filters in the four most important areas of performance: particle capture, holding capacity, initial efficiency and pressure drop.*

### **MERV 11 performance:** **85% efficient on particles** **3 to 10 microns**

Ultravation® pleated media filters meet and exceed MERV 11 (ASHRAE 52.2) performance standards using unique, **UltraStrand™** shaped fibers. The specially shaped surface of an UltraStrand™ fiber captures and holds particles far better than the typical round fiber, because of its rough, irregular surface and increased surface area. To increase capture ability still further, UltraStrand™ fibers carry a permanent **electrostatic charge** that attracts particles like a magnet.

### **Progressive design** **for high capacity**

Ultravation Progressive design increases fiber density from the upstream to the downstream side, gathering the largest particles in the first part of the filter, while progressively smaller particles are captured through the filter. As a result, the media becomes filled edge to edge, providing very high dirt holding capacity. Ultravation Progressive filtration is also extraordinarily efficient: providing an **initial dust spot efficiency of 51%** with an **average dust spot efficiency of 56%**.

### **Increased performance without** **increased pressure drop**

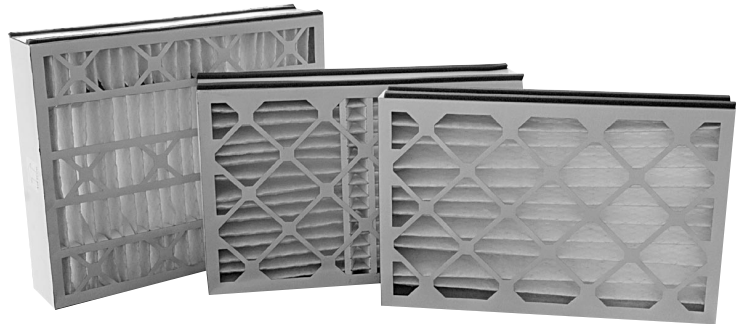
Increased efficiency in particulate capture has always meant increased air resistance—not with Ultravation! Progressive media design and UltraStrand™ shaped fibers achieve MERV 11 performance without increased fiber density: **An Ultravation progressive MERV 11 filter will do its job causing less pressure drop than a typical MERV 8 media filter!**

### **Designed to optimize** **indoor air quality**

UltraStrand™ media provides excellent bi-directional strength and the fibers are thermally bonded and

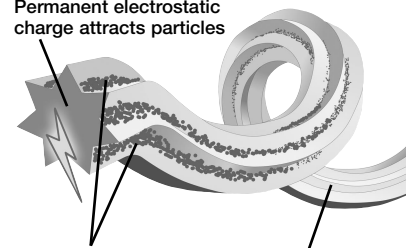
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**Ultravation®**  
Advanced technology for indoor air quality



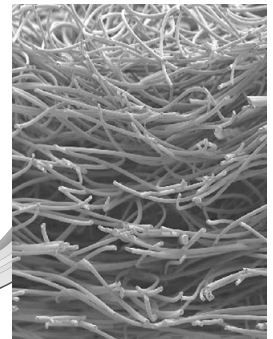
### **UltraStrand™** **Fiber Technology**

Permanent electrostatic charge attracts particles

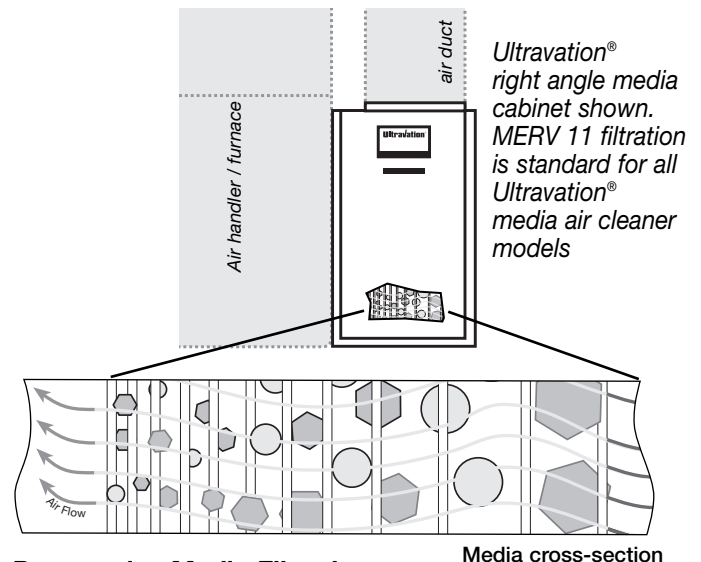


Shaped fibers have much greater surface area and can capture/hold far more dirt than regular filter fibers.

100% synthetic, continuous fibers—friendly to people with allergies!



Highly magnified photo of UltraStrand™ fibers shows progressive design.



### **Progressive Media Filtration**

*Ultravation® extended-life Progressive Media Air Cleaners capture large particles at the leading edge of the filter, and collect progressively smaller particles as they flow into the filter media. This unique process increases filter capacity, extends filter life and minimizes air resistance.*

Media cross-section

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# Ultravation® MERV 11 Progressive Media Air Filters

## with UltraStrand™ Shaped Fiber Technology

Model	Fits Ultravation Model	Size	Rated Velocity FPM	Initial Resistance in W.G.	Media Square Feet	Replacement interval
91-005	90-006	16" x 25" x 5"	300	.16	25.25	six months
91-006	90-007, 90-008, 90-010, 92-001, 92-002, 92-003	20" x 25" x 5"	300	.16	32.0	six months

Above performance specifications are for normal operating conditions. Ultravation Progressive Filter Media are rated to withstand up to 2000 cfm.

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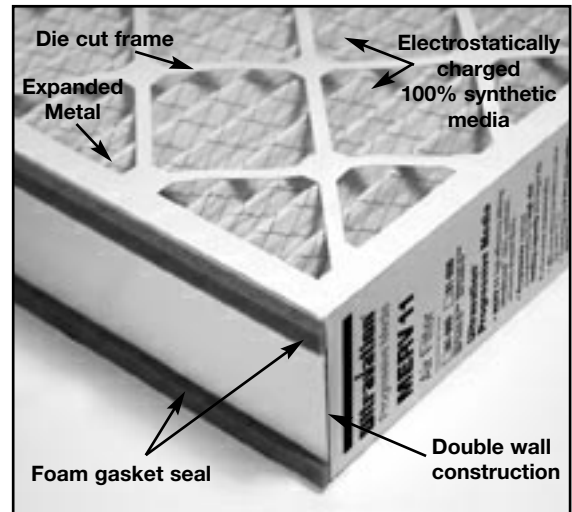
continuous, so they resist shedding. UltraStrand™ fibers are also **100% synthetic**—friendly to people with allergies.

The filter media is laminated to a heavy-duty, galvanized, rust resistant metal backing that stabilizes the media during operation. The pleats are formed in a radial configuration to ensure proper dust loading. The pleated media pack is adhered to the peripheral interior of a heavy-duty, die cut frame with surrounding gasket to prevent air bypass. The board frame creates a double-wall thickness around the perimeter of the filter.

### Feature summary

- MERV 11 performance
- Low pressure drop
- Progressive particulate capture for long life
- 100% Synthetic Fibers
- Stable Media Charge
- High Initial Efficiency
- Thermally Bonded
- Fibers resist shedding
- Media does not absorb moisture
- Continuous fibers
- No chemical binders

### Media filter construction



All Ultravation® Progressive Media Air Cleaners have been tested using ANSI / ASHRAE 52.1-1992 standard test procedures.



Designed and manufactured in the USA

Members:



Available from:

Ultravation makes whole house media air cleaners in straight-through, right-angle and under-furnace/support box models—versatile and ruggedly built for flexibility and long life. All come with MERV 11 filter media. Learn more at [www.ultravation.com](http://www.ultravation.com).

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