

THE WORLD LEADER IN CLEAN AIR SOLUTIONS

# MEGApleat® M9 (MERV 9)

## EXTENDED SURFACE PLEATED PANEL FILTERS

- Guaranteed consistent performance
- Highest dust holding capacity
- 3x -4x longer service life than standard pleated prefilter
- Highest breach strength—strongest construction
- 33% lower initial resistance than MERV 8 version further reduces energy consumption and total operating costs
- Improved efficiency to better protect HVAC coils and high-efficiency filters
- 50% reduction in 3-10 $\mu$  particle penetration compared to MERV 8 version
- 30% higher efficiency against 1-3 $\mu$  particles compared to MERV 8 version
- Heavy-duty, galvanized expanded metal support grid
- Moisture-resistant adhesive
- Available in 1", 2", and 4" models
- MERV 9 high-capacity filter

### The New Standard in Premium Pleated Filters

Introducing the longest-lasting MERV 9 pleated panel filter on the market—the MEGApleat M9. Manufactured with a heavy-duty, galvanized expanded metal support grid and moisture-resistant adhesive, the MEGApleat M9 filter is the strongest MERV 9 pleated filter available. The MEGApleat M9 filter's low initial resistance requires less energy consumption, resulting in lower operating costs and energy savings.

### Certified Performance—Insist on Independent Testing

With the MEGApleat M9 filter, MERV 9 classification is documented with test results from an independent, third-party test laboratory. The MEGApleat M9 filter gives you the performance our competitors promise but don't deliver.

### AAF Flanders Guarantee

Unlike other MERV 9 filters where there is significant performance variability from filter to filter, the MEGApleat M9 filter is designed for performance consistency. AAF Flanders is so confident about the performance, we guarantee the MEGApleat M9 filter to last longer, be stronger, be more cost efficient than any competitor's MERV 9 pleated filter, and perform to MERV 9 standards throughout the filter life. Contact your local sales representative for guarantee details.



**AAF** | Flanders®

# MEGApleat® M9 Filter

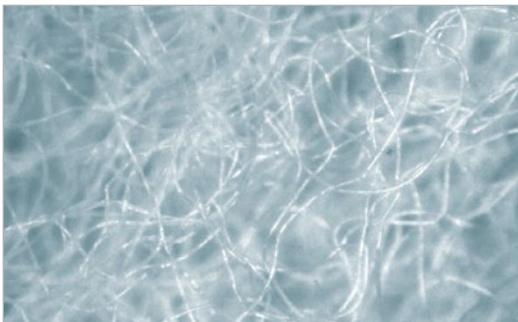
## Media

Uniform size virgin fibers are assembled in closely controlled blends to create a media that is consistent in performance. MEGApleat M9 filters promote maximum airflow and dust holding capacity (DHC).

MEGApleat M9 filters load at a slower rate increasing the life of the filter. Lowest lifecycle pressure drop and higher DHC means reductions in energy consumption and operating costs.



Looking closely at a leading competitor's media, notice the inconsistent fiber sizes and binder that can lead to inconsistent performance and variability.

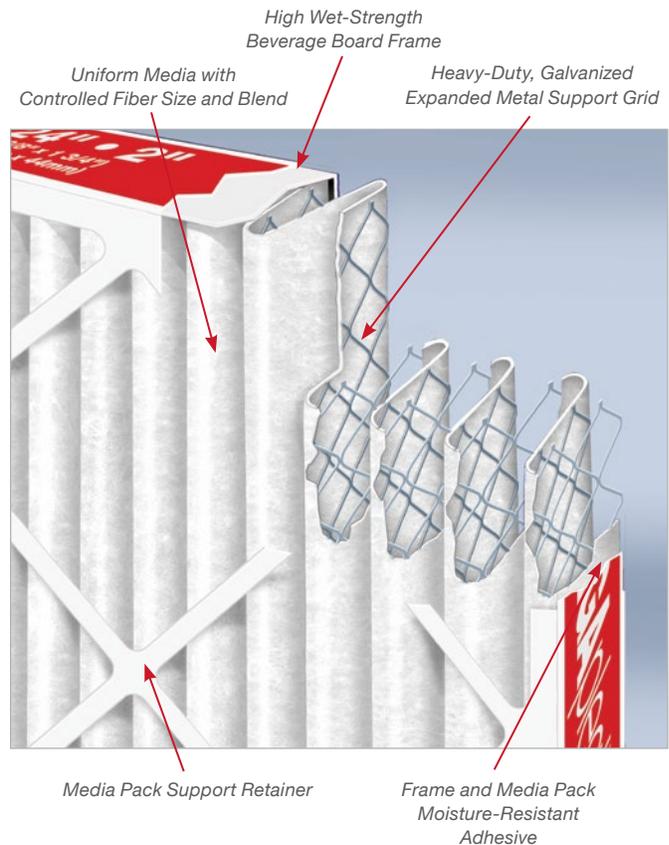


MEGApleat® M9 filter media is free of the variations seen in competitor filters, ensuring consistency over the life of the filter.

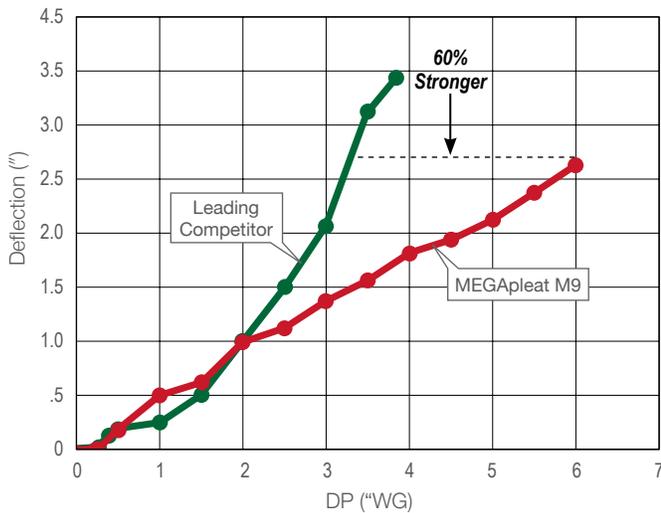
## Premium Construction and Performance

Designed to meet the demands of the toughest applications, the MEGApleat M9 filter offers a totally unitized, die-cut box, beverage board frame with double thickness in the perimeter wall. The MEGApleat M9 filter is extremely strong and durable under difficult operating conditions, including high-moisture applications. A heavy-duty, galvanized expanded metal pleat support grid laminated to the media pack increases rigidity and helps maintain proper spacing between pleats. Proper pleat spacing ensures maximum efficiency, low resistance, and maximizes DHC.

The media pack is bonded to the frame at all points of contact, using moisture-resistant adhesive. This bonding prevents dirty air bypass and promotes even airflow through the media pack. The MEGApleat M9 filter construction process results in a filter which is very stable, with no racking or vibration of the pleats under normal airflow. Pleat stability minimizes the chances of captured particulate shaking loose and re-entering the airstream.



### Wet Breach Test Comparison



Results from a wet breach test performed at an independent test lab shows the MEGApLeat® M9 filter is over 60% stronger than the leading competitor.

### Applications

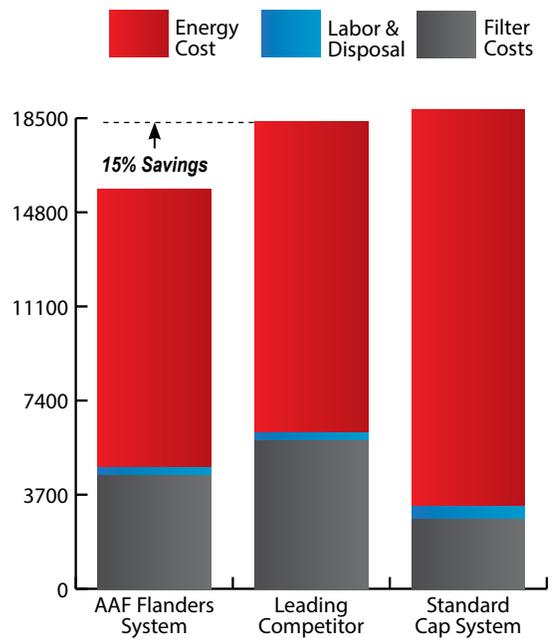
The MEGApLeat M9 filter is designed for use in commercial, industrial, and institutional applications. MEGApLeat M9 filters are ideal for turbulent airflow, heavy loading, and high moisture systems. MEGApLeat M9 filters are directly interchangeable with disposable panel filters, media pads in metal frames, permanent filters, or lower performing competitive filters used in built-up filter banks and side access systems.

No modifications are necessary to frames or latches. MEGApLeat M9 is also an excellent primary filter to prevent dust build-up on heating and cooling coils, fans, and ductwork, or as a prefilter for higher efficiency filters.

### Total System Savings

Looking at each stage of filtration is critical to optimizing the efficiency of a HVAC system. When employing a 3-stage system, a MEGApLeat M9 filter, combined with a VariCel® VXL filter and a MEGAcel® I HEPA filter, will minimize energy usage and cost. When combined with these filters, the MEGApLeat M9 filter offers an environmentally sustainable solution that can help you qualify for LEED® Energy and Atmosphere credits, by reducing the fan energy usage associated with HVAC systems.

When a MEGApLeat M9 filter is used in combination with other AAF Flanders filters, your total cost of ownership is less than competitive systems, as seen in the graph below.



Analysis based on a 3-stage filter system, running 20,000 CFM, over a 2 year time period. Energy costs based on the national average of 0.08 \$/kW-hr. Filter selection was based on the most energy efficient filters available.

# MEGApleat® M9 Filters

## Performance Data

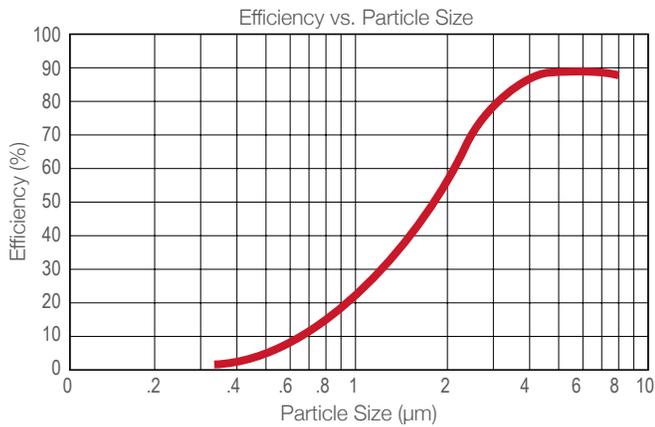
Filter	Pleats Per Linear Foot	Rated Initial Resistance (in. w.g.)			Recommended Final Resistance (in. w.g.)	ASHRAE 52.2 MERV	Continuous Operating Temperature Limits
		300 FPM	500 FPM	625 FPM			
1"	14	.20	.38	–	1.0	9	200°F (93°C)
2"	14	.12	.22	.29	1.0	9	200°F (93°C)
4"	11	.08	.17	.24	1.0	9	200°F (93°C)

All performance data is based on ASHRAE Standard 52.2. Performance tolerance conforms to Section 6.4 of ANSI/AHRI Standard 850-2013.

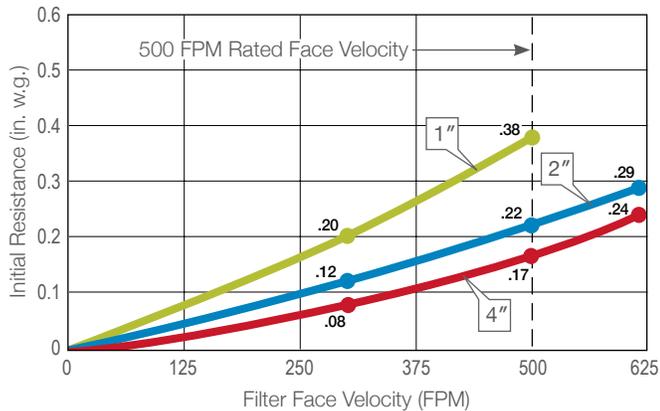
### Underwriters Laboratories Classification

MEGApleat M9 filters are UL Classified. Testing was performed according to UL Standard 900 and ULC-S111.

### Composite Minimum Efficiency Curve



### Initial Resistance vs. Filter Face Velocity



## Product Information – (1) Standard Sizes

Nominal Sizes (Inches) (W x H x D)	Actual Sizes (Inches) (W x H x D)	Rated Airflow Capacity (SCFM)			Pleats Per Filter	Gross Media Area (sq. ft.)
		300 FPM	500 FPM	625 FPM		
10 x 20 x 1	9½ x 19½ x ¾	400	700	–	12	2.7
12 x 24 x 1	11¾ x 23¾ x ¾	600	1000	–	15	4.0
16 x 20 x 1	15½ x 19½ x ¾	650	1100	–	21	4.6
16 x 25 x 1	15½ x 24½ x ¾	850	1400	–	21	5.8
20 x 20 x 1	19½ x 19½ x ¾	850	1400	–	26	5.7
20 x 25 x 1	19½ x 24½ x ¾	1050	1750	–	26	7.2
24 x 24 x 1	23¾ x 23¾ x ¾	1200	2000	–	31	8.2
12 x 24 x 2	11¾ x 23¾ x 1¾	600	1000	1250	15	9.0
16 x 20 x 2	15½ x 19½ x 1¾	650	1100	1400	19	9.5
16 x 25 x 2	15½ x 24½ x 1¾	850	1400	1750	19	11.9
18 x 24 x 2	17¾ x 23¾ x 1¾	900	1500	1875	21	12.6
20 x 20 x 2	19½ x 19½ x 1¾	850	1400	1750	24	12.0
20 x 24 x 2	19¾ x 23¾ x 1¾	1000	1650	2100	24	14.4
20 x 25 x 2	19½ x 24½ x 1¾	1050	1750	2175	24	15.1
24 x 24 x 2	23¾ x 23¾ x 1¾	1200	2000	2500	29	17.4
12 x 24 x 4	11¾ x 23¾ x 3¾	600	1000	1250	11	13.8
16 x 20 x 4	15¾ x 19¾ x 3¾	650	1100	1400	14	14.5
16 x 25 x 4	15¾ x 24¾ x 3¾	850	1400	1750	14	18.3
18 x 24 x 4	17¾ x 23¾ x 3¾	900	1500	1875	16	20.0
20 x 20 x 4	19¾ x 19¾ x 3¾	850	1400	1750	18	18.7
20 x 25 x 4	19¾ x 24¾ x 3¾	1050	1750	2150	18	23.5
24 x 20 x 4	19¾ x 23¾ x 3¾	1000	1650	2100	21	21.8
24 x 24 x 4	23¾ x 23¾ x 3¾	1200	2000	2500	21	26.3
25 x 29 x 4	24¾ x 28¾ x 3¾	1500	2500	3150	26	33.9

(1) Additional sizes available (MEGApleat M9):

12x12x1 14x25x1 16x16x1 18x25x1 12x20x2 15x20x2 16x24x2 25x25x2  
14x20x1 15x20x1 18x24x1 25x25x1 14x25x2 16x16x2 18x25x2

(2) Width and height dimensions are interchangeable. All MEGApleat M9 filters may be installed with the pleats either vertical or horizontal.

Energy savings may be realized by operating the MEGApleat M9 filters to a lower final resistance. Contact your local AAF Flanders representative for a Total Cost of Ownership analysis for your specific application.

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