

Product Specification

ADVANTAGE® HIGH-EFFICIENCY MINI-PLEAT FILTERS

1.0 Scope

This specification covers extended surface, mini-pleat filters that are a component of heating, ventilating and air conditioning systems.

2.0 Construction

The filters consist of a pleated media pack contained in cell sides made of high impact plastic with factory installed gasket.

2.1 Media

The media shall be made of a continuous sheet of white, 100% blended synthetic fiber media.

The media shall be water resistant. Humidity or exposure to sensible moisture shall have no effect on the performance of the filters other than a temporary rise in resistance.

The media shall not support microbial growth.

2.2 Mini-Pleat Separators

Beads of hot-melt adhesive shall be applied to the media, bonding the media into a rigid, mini-pleated pack.

2.3 Filter Frame

The cell sides shall be made of a high strength, high impact polystyrene plastic. The frame shall be moisture, chemical and corrosion resistant. The frame shall mechanically lock together at each corner.

2.4 Frame Adhesive

The media pack shall be sealed into the cell sides by foamed hot-melt adhesive, preventing bypass between the pack and frame.

2.5 Gasket

The filter shall have factory installed closed cell gasket applied on the air leaving side and one vertical side, allowing for installation in both front access and side access HVAC systems.



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2.6 Media Area

The filters shall contain a minimum amount of media per the following schedule:

24x24x2	50.1 ft ²
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3.0 Performance

The filters shall meet the following minimum performance requirements per ASHRAE Standard 52.2-2017. Tests conducted at 492 FPM face velocity on 24x24 size filters shall be representative of the performance of all sizes manufactured.

Model	PADV2-M8	PADV2-M11	PADV2-M13	PADV2-M14	PADV2-M16
Nominal Size	24 x 24 x 2	24 x 24 x 2	24 x 24 x 2	24 x 24 x 2	24 x 24 x 2
Rated Air Flow Capacity	2000 CFM	2000 CFM	2000 CFM	2000 CFM	2000 CFM
Initial Resistance	0.24" W.G.	0.30" W.G.	0.35" W.G.	0.42" W.G.	0.79" W.G.
Final Resistance	1.50" W.G.	1.50" W.G.	1.50" W.G.	1.50" W.G.	1.50" W.G.
MERV	8	11	13	14	16
Efficiency 0.3 – 1.0 m	>20%	≤20%	≤50%	≤75%	≤95%
Efficiency 1.0 – 3.0 m	≤20%	≤65%	≤85%	≤90%	≤95%
Efficiency 3.0 – 10.0 m	≤70%	≤85%	≤90%	≤95%	≤95%

4.0 Underwriters Laboratories Classification

The filters shall be classified per UL Standard 900 for flammability.

5.0 Incinerable

The filters shall be totally incinerable. No metal components are acceptable.

6.0 Maximum Operating Temperature Limits

The filter shall operate at temperatures up to 170 °F (77 °C) without materially affecting filter integrity or performance.

