

Product Specification

AIRGUARD® DP® HT HIGH TEMPERATURE PLEATED FILTERS

1.0 Scope

This specification covers pleated panel filters that are a component of high temperature ventilation systems.

2.0 Construction

The filters shall consist of a pleated media pack contained in a metal frame for high temperature applications.

2.1 Media

The media shall consist of glass fibers with a woven backing and shall be yellow in color.

2.2 Media Pack

The media shall be formed into uniformly shaped pleats with equal height measured from pleat apex to apex.

The media shall have an expanded metal grid with 95% open area bonded to the air leaving side to shape the pleats and prevent fluttering in operation. The expanded metal grid shall be made of electroplate galvanized steel to inhibit rust.

The media shall be a minimum of 1/4" larger than the inside dimension of the die cut frame to completely seal the pack inside the filter.

The filters shall contain no less than the number of pleats per linear foot as specified by the following schedule:

Filter Depth	Pleats per Linear Foot
1"	14
2"	12
4"	11



Product Specification

2.3 Filter Frame

The media pack shall be enclosed in a metal frame and made from 24-gauge aluminized steel. The frame shall have an expanded metal faceguard on the air leaving side to provide support and retain the media pack.

2.4 Frame Adhesive

The entire interior surface of the metal frame shall be coated with an adhesive to adhere the pack to the frame.

2.5 Gasket (Optional)

Factory installed high temperature glass rope gasket shall be available upon request.

3.0 Performance

The filters shall meet the following minimum performance requirements per ASHRAE Standard 52.2. Tests conducted at 492 FPM face velocity on 24 x 24 x 2 nominal size filters shall be representative of the performance of all sizes manufactured.

Depth	1"	2"	4"
Nominal Size	24 x 24 x 1	24 x 24 x 2	24 x 24 x 4
Rated Face Velocity (FPM)	300	500	500
Rated Air Flow Capacity (CFM)	1200	2000	2000
Initial Resistance (In. W.G.)	0.50	0.55	0.45
Final Resistance (In. W.G.)	1.00	1.00	1.00
MERV	8	8	8

4.0 Underwriters Laboratories Classification

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

5.0 Operating Temperature Limits

The filter shall operate at temperatures up to 500 °F (260 °C) without materially affecting filter integrity or performance.

