

Product Specification

MICROGUARD® HT HIGH TEMPERATURE HEPA FILTER

1.0 Scope

This specification covers high efficiency particulate air (HEPA) filters that are a component of high temperature and industrial process applications.

2.0 Construction

The filters consist of a high efficiency pleated media pack using aluminum separators, contained in cell sides made of stainless steel.

2.1 Media

The media shall be made of a continuous sheet of dual-phase high efficiency white micro-fiber glass paper with an acrylic binder.

2.2 Media Pack

The media shall be pleated into a pack using corrugated aluminum separators, with the edges hemmed (rolled) to minimize the risk of tearing the media or injuring maintenance personnel.

2.3 Media Pack Sealant

The media pack shall be potted high temperature red silicone on the top and bottom, with sides sealed with adhesive.

2.4 Filter Frame

The media pack shall be contained within cell sides made of 304 stainless steel. The frame shall be a double turned flange construction.

2.5 Gasket

1/4" x 3/4" high temperature red silicone gasket shall be installed on the air leaving side of the filter.



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2.6 Media Area

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

24 x 24 x 11.5 – standard capacity	185 ft ²
24 x 24 x 11.5 – high capacity	286 ft ²

3.0 Performance

The filters shall meet the following minimum performance, based on overall penetration testing per IEST-RP-CC001 using PAO aerosol.

MICROGUARD HT products are individually tested and certified at the factory.

Model	H2424B00-0JBB29000	H2424B00-0JBB2900F
Actual Size	24 x 24 x 11.5	24 x 24 x 11.5
Rated Air Velocity	250 FPM	500 FPM
Rated Air Flow Capacity	1000 CFM	2000 CFM
Initial Resistance	1.00" W.G.	1.35" W.G.
Final Resistance	Twice Initial Resistance	Twice Initial Resistance
Efficiency (0.3 micron)	99.97%	99.97%

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.

6.0 Product Options

This specification covers standard MICROGUARD HT construction. Product is available in a wide range of material and construction options.

Contact your Parker HVAC Filtration representative regarding product specifications for specific products.



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Minimum Efficiencies	99.97% on 0.3 micron (overall) 99.99% on 0.3 micron (scanned)
Face Sizes	5" x 6" to 36" x 72"
Depth	5-7/8" and 11-1/2"
Rated Air Velocity – Standard Capacity	5-7/8" – 125 FPM 11-1/2" – 250 FPM
Rated Air Velocity – High Capacity	5-7/8" – 250 FPM 11-1/2" – 500 FPM
Cell Side Materials	Stainless Steel
Cell Side Styles	Double Turned Flange
Gasket	1/4" x 3/4" HT Red Silicone Gasket Silicone Gel Seal (400 °F max)
Factory Options	Expanded Metal Faceguards - Stainless Steel
Separators	Aluminum

