

# Product Specification

## MICROGUARD® HC HIGH CAPACITY HEPA FILTER

### 1.0 Scope

This specification covers high efficiency particulate air (HEPA) filters that are a component of heating, ventilating and air conditioning systems 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 galvanized steel.

#### 2.1 Media

The media shall be made of a continuous sheet of 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 with polyurethane 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 16-gauge galvanized steel. The frame shall be a c-style box construction.

#### 2.5 Gasket

1/4" x 3/4" dove-tailed urethane 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 | 286 ft <sup>2</sup> |
|----------------|---------------------|

## 3.0 Performance

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

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

|                              |                          |
|------------------------------|--------------------------|
| Model                        | H2424B00-0AG00000F       |
| Actual Size                  | 24 x 24 x 11.5           |
| Rated Air Flow Capacity      | 2000 CFM                 |
| Initial Resistance @ 500 FPM | 1.35" W.G.               |
| Final Resistance             | Twice Initial Resistance |
| Efficiency (0.3 micron)      | 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 180 °F (82 °C) without materially affecting filter integrity or performance.

## 6.0 Product Options

This specification covers standard MICROGUARD HC 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)<br>99.99% on 0.3 micron (scanned)<br>99.999% on 0.3 micron (scanned)<br>99.999% on 0.12 micron (scanned)<br>99.9995% on 0.12 micron (scanned)                    |
| Face Sizes           | 5" x 6" to 36" x 72"                                                                                                                                                                            |
| Depth                | 5-7/8" and 11-1/2"                                                                                                                                                                              |
| Rated Air Velocity   | 5-7/8" – 125 FPM<br>11-1/2" – 250 FPM                                                                                                                                                           |
| Cell Side Materials  | Wood<br>Galvanized Steel<br>Stainless Steel<br>Roll Formed Aluminum<br>Anodized Extruded aluminum                                                                                               |
| Cell Side Styles     | 4-Piece Box<br>C-Style Box<br>Double Turned Flange<br>3/4" x 3/4" Single Header<br>3/4" x 3/4" Double Header<br>3/4" Straight Flange                                                            |
| Gasket               | 1/4" x 3/4" Urethane Gasket<br>Urethane Gel Seal                                                                                                                                                |
| Factory Options      | Expanded Metal Faceguards <ul style="list-style-type: none"> <li>- Galvanized Steel</li> <li>- Aluminum</li> <li>- Stainless Steel</li> <li>- White Coated Metal</li> </ul> Extractor Clips (4) |
| Separators           | Aluminum                                                                                                                                                                                        |

