

# Product Specification

## **QUADSEAL™ 4" FLEXIBLE SEAL BOX HIGH CAPACITY EXTENDED SURFACE EMBOSSED PLEAT FILTERS**

### **1.0 Scope**

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

### **2.0 Construction**

The filters consist of an embossed pleated synthetic media pack contained in cell sides made of molded foamed polyurethane with integral gasket sealing.

#### **2.1 Media**

The media shall be made of a continuous sheet of gold tinted, 100% synthetic fiber. The media shall be of two-layer gradient density fiber with an embossed pattern.

The media shall be water resistant. Humidity or exposure to sensible moisture shall not affect performance other than a temporary rise in resistance.

The media shall be durable and resistant to tearing or abrasion.

#### **2.2 Embossed Media Pack**

The media shall be molded into a series of preformed channels that shall form the pleats. Beads of adhesive shall be applied to the media, bonding the pleats into a rigid, pack.

#### **2.3 Filter Frame**

The filter frame shall be made of molded foamed polyurethane. The frame shall be moisture, chemical and corrosion resistant. The frame shall be able to flex without damage.

The media pack shall be 100% potted in the foamed polyurethane frame, eliminating potential for bypass between the media pack and frame. No additional sealants or adhesives are necessary.



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## 2.4 QuadSEAL Integrated Gasket

The polyurethane frame shall incorporate a quad-seal integrated gasket. Gasket shall be on the air leaving and perimeter of the frame and shall provide filter-to- holding frame seal to prevent bypass. The quad-seal gasket provides dual sealing protection for both front loading and side loading applications.

## 2.5 Media Area

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

24x24x4	51 ft <sup>2</sup>
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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	PQS4-M14-04-NH
Nominal Size	24 x 24 x 4
Rated Air Flow Capacity	2000 CFM
Initial Resistance @ 500 FPM	0.39" W.G.
Final Resistance	1.50" W.G.
MERV	14

## 4.0 Underwriters Laboratories Classification

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

## 5.0 Incinerable

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



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## 6.0 Operating Temperature Limits

The filter shall operate at temperatures up to 200 °F (93 °C) without materially affecting filter integrity or performance.

