

General

Flanders introduces the newest member of the PrecisionCell design family. This filter that has been tested and certified to be MERV 16 or higher for applications requiring higher efficiency than our standard ASHRAE filters and lower pressure drops than traditional DOP filters.

Installation Considerations

The PrecisionCell M16 filters are manufactured with wet laid micro fiberglass media. The media is 100% separatorless and self-supporting. This means there are no glue beads, media strips, or string separating the media pack. The deletion of aluminum separators makes the filter incinerable and easy to dispose of.

The frame is constructed of either 24 GA galvanized steel, 0.063" aluminum or thin gauge stainless steel. The filter media is sealed to the frame on all (4) sides with a two component flame retardant solid urethane. PrecisionCell M16 is available in a box style, header style, or double turn flange frame configuration.

Various gasket material options are available and are applied to conform to customer requirements.

Precision Cell M16 filters are UL900 Class 1 rated.

Product Superiority

The product offers the following advantages over conventional ASHRAE filters.

Maximum Media Area

Gasket seal filters have 265 sq. ft. of media compared to 125 sq ft for traditional ASHRAE filters. The greater media area provides a longer time period between filter replacements.

Exceptional Efficiency

The significant quantity of media translates into an extremely low media velocity. Therefore a minimum overall efficiency of 92% at 0.3µm and a MERV 16 per ASHRAE standard 52.2.

Minimal Pressure Drop

The typical DOP rated filter pressure drop can range from 1.4"w.g. to 1.8"w.g. at the rated flow. The pressure drop of the PrecisionCell M16 is 0.8"w.g. at the rated flow.

Physical Data

Frame: 24 ga. corrosion-resistant steel. Other frame materials are also available.

Media: Moisture-resistant micro-fine fiberglass paper, sealed in the frame with Class 1 urethane.

Separators: Hemmed corrugated aluminum. Flanders also offers an exclusive Pureform® separatorless model. Contact factory.

Headers: 13/16 " wide corrosion-resistant steel

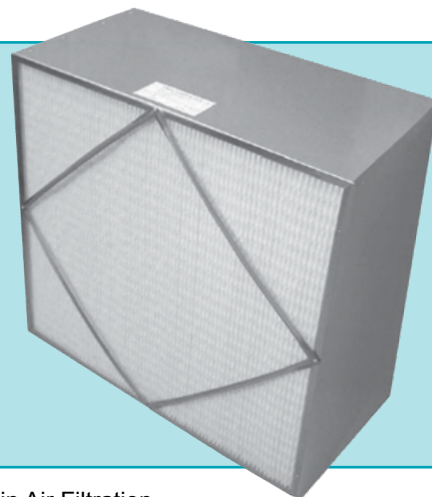
Operating Limits: 100% RH and 250° F

Actual Face: Nominal size less 5/8"

Actual Depth: 5-7/8" or 11-1/2"

Important Features

- **Maximum Media Area**
- **Exceptional Efficiency**
- **Minimal Pressure Drop**



Product Options

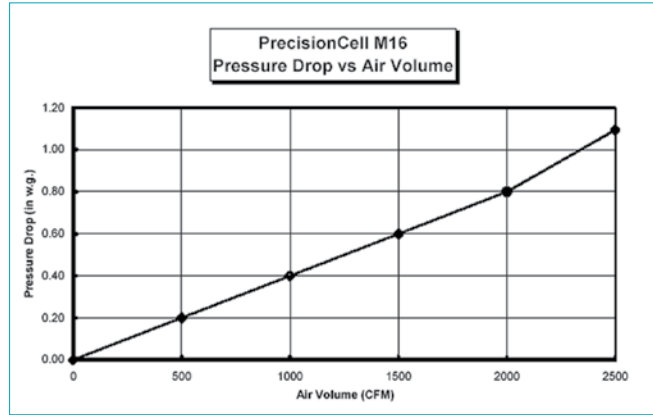
The PrecisionCell M16 filters are available as gasket seal only, contact factory for additional options.

Gasket Seal

The standard filter gasket is 1/4" black poly-butyl attached to the frame with a pressure sensitive adhesive. Other gasket options are available upon request.

Faceguards

The standard filter faceguard is an expanded galvanized screen on the downstream side. Other materials and locations are available upon request.



PrecisionCell M16 Selection

All products have a rated overall DOP efficiency of 92% at 0.3µm and are rated MERV 16 per ASHRAE standard 52.2.

Filter model number breakdown.

0 - 00T - W - 16 - 00 - IU - B2 - 00 - YY - F

Filter Frame Material:

Use "16" for galvanized, "05" for aluminum, and "03" for stainless steel.

Filter Frame Style:

Use "00" for box style, "01" for single header, "02" for double header, and "03" for double turn flange style.

Faceguard style and location

Use "00" for none, "G1" for expanded galvanized upstream, "G2" for expanded galvanized downstream, "G3" for expanded galvanized both sides.

Gasket Style and Location:

Use "00" for none, "B1" for black poly-b upstream, "B2" for black poly-b downstream, and "B3" for black poly-b on both sides.

Filter Size:

Filter Size Designator	Filter Height	Filter Width	Filter Depth	Rated Airflow
YY-F	23-3/8"	23-3/8"	11-1/2"	2000 CFM
YU-F	23-3/8"	11-3/8"	11-1/2"	1000 CFM
YX-F	23-3/8"	19-3/8"	11-1/2"	1700 CFM
XX-F	19-3/8"	19-3/8"	11-1/2"	1400 CFM
ZX-F	24-3/8"	19-3/8"	11-1/2"	1750 CFM



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