

PrecisionCell® M16

(MERV 16)

SELF-SUPPORTING MICROGLASS FILTERS



- 100% separatorless and self-supporting media
- Filter is fully incinerable and easy to dispose of
- MERV 16

Physical Data

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

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

Separators: Hemmed corrugated aluminum. AAF also offers a Pureform® separatorless model.

Headers: 1³/₁₆" wide corrosion-resistant steel.

Operating Limits: 100% RH and 2500°F (1371°C).

Actual Face: Nominal size less 5/8."

Actual Depth: 5⁷/₈" or 11¹/₂."

The PrecisionCell M16 filters are manufactured with wet laid microglass 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-gauge galvanized steel, 0.063" aluminum, or thin gauge stainless steel. The filter media is sealed to the frame on all four sides with a two component flame-retardant solid urethane. PrecisionCell M16 filters are 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.

Superior Design and Construction

This 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, a minimum overall efficiency of 92% at 0.3µm, and a MERV 16 rating.

Minimal Pressure Drop: The typical Dispersed Oil Particulate (DOP) rated filter pressure drop can range from 1.4" w.g. to 1.8" w.g. at the rated airflow. The pressure drop of the PrecisionCell M16 filter is 0.8" w.g. at the rated airflow.

PrecisionCell® M16 Filters

Product Options

The PrecisionCell M16 filters are available as gasket seal only. Contact your local AAF representative for additional options.

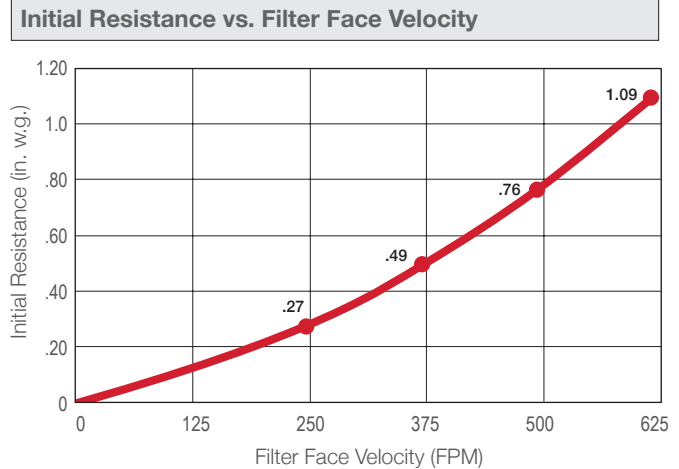
Gasket Seal: The standard filter gasket is ¼" black polybutyl attached to the frame with a pressure sensitive adhesive. Other gasket options are available upon request.

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

Product Information – Standard Sizes

Filter Size Designator	Actual Filter Size HxWxD (inches)	Rated Airflow Capacity (CFM)
YY-F	23¾ x 23¾ x 11½	2000
YU-F	23¾ x 11¾ x 11½	1000
YX-F	23¾ x 19¾ x 11½	1700
XX-F	19¾ x 19¾ x 11½	1400
ZX-F	24¾ x 19¾ x 11½	1750

Performance Data



All performance data based on ASHRAE Standard 52.2. Performance tolerance conforms to Section 6.4 of ANSI/AHRI Standard 850-2013.

Underwriters Laboratories Classification – PrecisionCell filters are UL Classified. Testing was performed according to UL Standard 900.

PrecisionCell® and Pureform® are registered trademarks of AAF International in the U.S.



9920 Corporate Campus Drive, Suite 2200, Louisville, KY 40223-5690
888.223.2003 Fax 888.223.6500 | aafintl.com

AAF has a policy of continuous product research and improvement. We reserve the right to change design and specifications without notice.

©2023 AAF International and its affiliated companies.

ISO Certified Firm

AFP-1-354 12/23