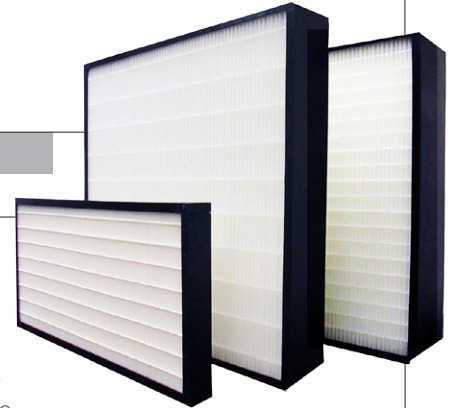


# PrecisionCell® III

## EXTENDED SURFACE MINI-PLEAT FILTERS



- 2", 4" & 6" thickness available
- Rugged plastic frame and synthetic pack for rigidity
- Cartridge design is ideal for Variable Air Volume (VAV) system or turbulent flow conditions
- Lightweight, easy to store and handle
- MERV 14, MERV 13, and MERV 11
- UL Classified

### Physical Data

**Frame:** PVC frame

**Media:** Synthetic Polypropylene

**Media Support:** Adhesive-bead pleat separators

**Operating Limits:** 160° F (71°C) and 100% RH

### Construction

PrecisionCell III filters are built with a mini-pleat media pack to achieve a rugged, compact, lightweight, high efficiency filter.

PrecisionCell III extended surface mini-pleat rigid filters are available in nominal depths of 2", 4", and 6". They are designed for use in most commercial and industrial HVAC systems where medium to high efficiency filtration is required. They are available in MERV 14, MERV 13, and MERV 11 efficiencies.

PrecisionCell III filters are especially suitable for VAV systems and are designed to operate at face velocities up to 625 FPM. Two styles are available: standard box style and an optional headered version that is manufactured with a header for use with existing front or side access housings.

### In-Line Space-Saving Design

PrecisionCell III filters dramatically reduce in-line space requirements when compared to 12" – 36" deep filters. Their nominal 2", 4", and 6" depths make a convenient "fit" for most installations. High efficiency filtration, which is often required for acceptable Indoor Air Quality, may now be selected by the design engineer without having to compromise space.

### Installation Considerations

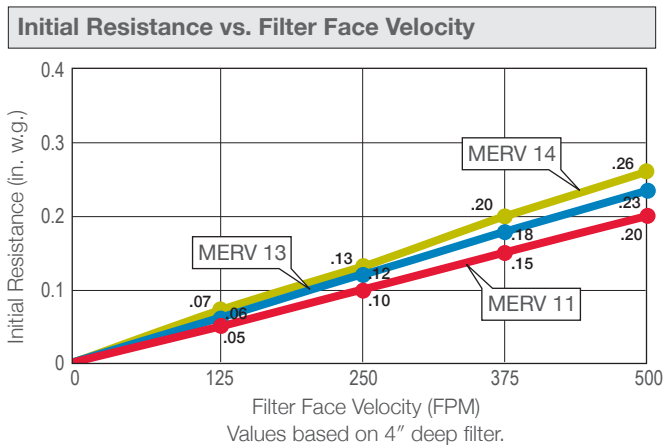
PrecisionCell III filters may be installed in AAF Flanders PF-1 holding frames or Surepleat side access housings. PF-1 holding frames are riveted together to form a bank and may be installed for upstream or downstream service. Smaller systems and systems with minimum upstream access space are best served using Surepleat side access housings.

# PrecisionCell® III Filters

## Product Information – Standard Sizes & Performance Data

| Rated Airflow (500 FPM) | Nominal Size (inches) (W x H x D) | 125 FPM |      |      | 250 FPM |      |      | 375 FPM |      |      | 500 FPM |      |      | Media Area (sq. ft.) |     |     | Weight Each (lbs.) |     |     |
|-------------------------|-----------------------------------|---------|------|------|---------|------|------|---------|------|------|---------|------|------|----------------------|-----|-----|--------------------|-----|-----|
|                         |                                   | 2"      | 4"   | 6"   | 2"      | 4"   | 6"   | 2"      | 4"   | 6"   | 2"      | 4"   | 6"   | 2"                   | 4"  | 6"  | 2"                 | 4"  | 6"  |
| <b>MERV 11</b>          |                                   |         |      |      |         |      |      |         |      |      |         |      |      |                      |     |     |                    |     |     |
| 2000 CFM                | 24 x 24                           | 0.06    | 0.05 | 0.03 | 0.11    | 0.10 | 0.09 | 0.17    | 0.15 | 0.14 | 0.23    | 0.20 | 0.19 | 50                   | 120 | 125 | 3.4                | 4.5 | 7.0 |
| 1000 CFM                | 12 x 24                           | 0.06    | 0.05 | 0.03 | 0.11    | 0.10 | 0.09 | 0.17    | 0.15 | 0.14 | 0.23    | 0.20 | 0.19 | 25                   | 60  | 61  | 1.9                | 2.5 | 3.5 |
| 1400 CFM                | 20 x 20                           | 0.06    | 0.05 | 0.03 | 0.11    | 0.10 | 0.09 | 0.17    | 0.15 | 0.14 | 0.23    | 0.20 | 0.19 | 35                   | 84  | 86  | 2.3                | 3.0 | 4.9 |
| 1100 CFM                | 16 x 20                           | 0.06    | 0.05 | 0.03 | 0.11    | 0.10 | 0.09 | 0.17    | 0.15 | 0.14 | 0.23    | 0.20 | 0.19 | 28                   | 66  | 68  | 1.9                | 2.5 | 3.9 |
| 1850 CFM                | 20 x 24                           | 0.06    | 0.05 | 0.03 | 0.11    | 0.10 | 0.09 | 0.17    | 0.15 | 0.14 | 0.23    | 0.20 | 0.19 | 44                   | 105 | 104 | 2.6                | 3.5 | 5.8 |
| 1500 CFM                | 18 x 24                           | 0.06    | 0.05 | 0.03 | 0.11    | 0.10 | 0.09 | 0.17    | 0.15 | 0.14 | 0.23    | 0.20 | 0.19 | 39                   | 93  | 93  | 2.3                | 3.0 | 5.3 |
| 1750 CFM                | 20 x 25                           | 0.06    | 0.05 | 0.03 | 0.11    | 0.10 | 0.09 | 0.17    | 0.15 | 0.14 | 0.23    | 0.20 | 0.19 | 44                   | 105 | 108 | 3.0                | 4.0 | 6.1 |
| 1400 CFM                | 16 x 25                           | 0.06    | 0.05 | 0.03 | 0.11    | 0.10 | 0.09 | 0.17    | 0.15 | 0.14 | 0.23    | 0.20 | 0.19 | 35                   | 84  | 86  | 2.3                | 3.0 | 4.9 |
| <b>MERV 13</b>          |                                   |         |      |      |         |      |      |         |      |      |         |      |      |                      |     |     |                    |     |     |
| 2000 CFM                | 24 x 24                           | 0.07    | 0.06 | 0.04 | 0.14    | 0.12 | 0.11 | 0.20    | 0.18 | 0.17 | 0.27    | 0.23 | 0.22 | 50                   | 120 | 125 | 3.4                | 4.5 | 7.0 |
| 1000 CFM                | 12 x 24                           | 0.07    | 0.06 | 0.04 | 0.14    | 0.12 | 0.11 | 0.20    | 0.18 | 0.17 | 0.27    | 0.23 | 0.22 | 25                   | 60  | 61  | 1.9                | 2.5 | 3.5 |
| 1400 CFM                | 20 x 20                           | 0.07    | 0.06 | 0.04 | 0.14    | 0.12 | 0.11 | 0.20    | 0.18 | 0.17 | 0.27    | 0.23 | 0.22 | 35                   | 84  | 86  | 2.3                | 3.0 | 4.9 |
| 1100 CFM                | 16 x 20                           | 0.07    | 0.06 | 0.04 | 0.14    | 0.12 | 0.11 | 0.20    | 0.18 | 0.17 | 0.27    | 0.23 | 0.22 | 28                   | 66  | 68  | 1.9                | 2.5 | 3.9 |
| 1850 CFM                | 20 x 24                           | 0.07    | 0.06 | 0.04 | 0.14    | 0.12 | 0.11 | 0.20    | 0.18 | 0.17 | 0.27    | 0.23 | 0.22 | 44                   | 105 | 104 | 2.6                | 3.5 | 5.8 |
| 1500 CFM                | 18 x 24                           | 0.07    | 0.06 | 0.04 | 0.14    | 0.12 | 0.11 | 0.20    | 0.18 | 0.17 | 0.27    | 0.23 | 0.22 | 39                   | 93  | 93  | 2.3                | 3.0 | 5.3 |
| 1750 CFM                | 20 x 25                           | 0.07    | 0.06 | 0.04 | 0.14    | 0.12 | 0.11 | 0.20    | 0.18 | 0.17 | 0.27    | 0.23 | 0.22 | 44                   | 105 | 108 | 3.0                | 4.0 | 6.1 |
| 1400 CFM                | 16 x 25                           | 0.07    | 0.06 | 0.04 | 0.14    | 0.12 | 0.11 | 0.20    | 0.18 | 0.17 | 0.27    | 0.23 | 0.22 | 35                   | 84  | 86  | 2.3                | 3.0 | 4.9 |
| <b>MERV 14</b>          |                                   |         |      |      |         |      |      |         |      |      |         |      |      |                      |     |     |                    |     |     |
| 2000 CFM                | 24 x 24                           | 0.08    | 0.07 | 0.06 | 0.15    | 0.13 | 0.12 | 0.23    | 0.20 | 0.19 | 0.30    | 0.26 | 0.25 | 50                   | 120 | 125 | 3.4                | 4.5 | 7.0 |
| 1000 CFM                | 12 x 24                           | 0.08    | 0.07 | 0.06 | 0.15    | 0.13 | 0.12 | 0.23    | 0.20 | 0.19 | 0.30    | 0.26 | 0.25 | 25                   | 60  | 61  | 1.9                | 2.5 | 3.5 |
| 1400 CFM                | 20 x 20                           | 0.08    | 0.07 | 0.06 | 0.15    | 0.13 | 0.12 | 0.23    | 0.20 | 0.19 | 0.30    | 0.26 | 0.25 | 35                   | 84  | 86  | 2.3                | 3.0 | 4.9 |
| 1100 CFM                | 16 x 20                           | 0.08    | 0.07 | 0.06 | 0.15    | 0.13 | 0.12 | 0.23    | 0.20 | 0.19 | 0.30    | 0.26 | 0.25 | 28                   | 66  | 68  | 1.9                | 2.5 | 3.9 |
| 1850 CFM                | 20 x 24                           | 0.08    | 0.07 | 0.06 | 0.15    | 0.13 | 0.12 | 0.23    | 0.20 | 0.19 | 0.30    | 0.26 | 0.25 | 44                   | 105 | 104 | 2.6                | 3.5 | 5.8 |
| 1500 CFM                | 18 x 24                           | 0.08    | 0.07 | 0.06 | 0.15    | 0.13 | 0.12 | 0.23    | 0.20 | 0.19 | 0.30    | 0.26 | 0.25 | 39                   | 93  | 93  | 2.3                | 3.0 | 5.3 |
| 1750 CFM                | 20 x 25                           | 0.08    | 0.07 | 0.06 | 0.15    | 0.13 | 0.12 | 0.23    | 0.20 | 0.19 | 0.30    | 0.26 | 0.25 | 44                   | 105 | 108 | 3.0                | 4.0 | 6.1 |
| 1400 CFM                | 16 x 25                           | 0.08    | 0.07 | 0.06 | 0.15    | 0.13 | 0.12 | 0.23    | 0.20 | 0.19 | 0.30    | 0.26 | 0.25 | 35                   | 84  | 86  | 2.3                | 3.0 | 4.9 |

## 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.

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