

PREpleat® M11 HC

(MERV 11 High Capacity)



- High efficiency with low initial resistance
- 100% synthetic recyclable high-loft media
- 2-piece heavy-duty die-cut frame
- Expanded metal backing
- Double-wall frame
- Diagonal grid supports for maximum strength
- MERV 11

The PREpleat M11 HC pleated panel filter enables a significant upgrade in collection efficiency over existing MERV 8 products. A 25–30% average efficiency filter can be upgraded to 60–65% efficiency at roughly the same resistance levels, when this filter is utilized.

Superior Design and Construction

Media: Progressive density bi-component fibers.

Airflow Resistance on 24" x 24" x 2": 0.30" w.g. @ 2000 CFM (500 FPM)

Media Support: Diamond-shaped expanded metal.

Pleat Design: V-Pleat design aids in pressure drop while reducing energy cost. Design allows for maximum airflow and Dust Holding Capacity (DHC) during the life of the filter.

Frame: Moisture-resistant clay coated frame.

Bi-Component Media: Ultra-high performance bi-component synthetic media contains electrostatically engineered trilobal fibers within homogenous domains of positive and negative Electret charges. These Electret charges in the bi-component fibers contribute to an ultra-high performance product.

Enhanced Fibers: Electrostatically enhanced fibers are precisely structured into a progressive density gradient structure to enhance airflow throughput with less resistance while providing high DHC and ultra-high efficiency during operational life.

Gradient Media Structure: Proprietary gradient media structure enables larger incoming contaminants to be trapped in the prefilter layer, thus allowing the highly charged secondary layer to attract and hold smaller particulate. This increases the life of more expensive final filters downstream.

High Efficiency at Low Pressure Drop: This proprietary media, combined with AAF's unique V-Pleat manufacturing design, equals the highest performance pleat available on the market today.

PREpleat® M11 HC Filters

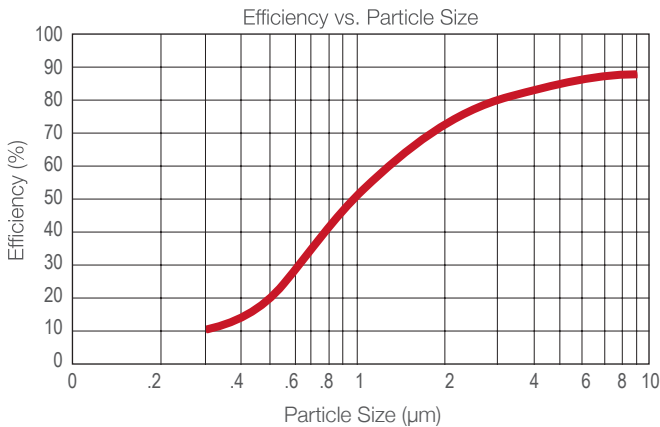
Performance Data

| Filter | Pleats Per Linear Foot | Rated Initial Resistance (in. w.g.) | | Recommended Final Resistance (in. w.g.) | ASHRAE 52.2 MERV | Continuous Operating Temperature Limits |
|--------------------|------------------------|-------------------------------------|---------|---|------------------|---|
| | | 300 FPM | 500 FPM | | | |
| 1" PREpleat M11 HC | 15 | 0.15 | 0.38 | 1.0 | 11 | 180°F (82°C) |
| 2" PREpleat M11 HC | 15 | 0.13 | 0.30 | 1.0 | 11 | 180°F (82°C) |
| 4" PREpleat M11 HC | 13 | 0.10 | 0.23 | 1.0 | 11 | 180°F (82°C) |

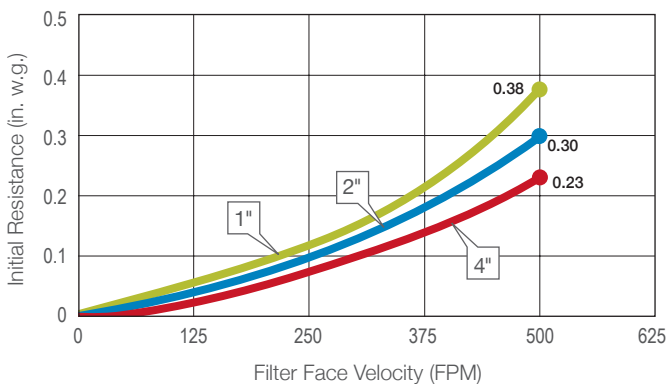
All performance data based on ASHRAE Standard 52.2. Performance tolerance conforms to Section 6.4 of ANSI/AHRI Standard 850-2013.

Underwriters Laboratories Classification – PREpleat M11 HC filters are UL Classified. Testing was performed according to UL Standard 900.

Composite Minimum Efficiency Curve



Initial Resistance vs. Filter Face Velocity



Energy savings may be realized by operating the PREpleat M11 HC filters to a lower final resistance. Contact your local AAF representative for a Total Cost of Ownership analysis for your specific application.

PREpleat® is a registered trademark of AAF International in the U.S.

Product Information – Standard Sizes

| Nominal Sizes (Inches) (W x H x D) | Actual Sizes (Inches) (W x H x D) | Rated Airflow (SCFM) | | | Pleats Per Filter | Gross Media Area (sq. ft.) |
|------------------------------------|-----------------------------------|----------------------|---------|---------|-------------------|----------------------------|
| | | 300 FPM | 500 FPM | 625 FPM | | |
| 10 x 10 x 1 | 9½ x 9½ x ¾ | 200 | 350 | – | 12 | 1.3 |
| 10 x 20 x 1 | 9½ x 19½ x ¾ | 400 | 700 | – | 12 | 2.7 |
| 12 x 20 x 1 | 11½ x 19½ x ¾ | 500 | 850 | – | 14 | 3.1 |
| 12 x 24 x 1 | 11½ x 23½ x ¾ | 600 | 1000 | – | 14 | 3.7 |
| 14 x 20 x 1 | 13½ x 19½ x ¾ | 600 | 950 | – | 17 | 3.8 |
| 14 x 25 x 1 | 13½ x 24½ x ¾ | 750 | 1200 | – | 17 | 4.7 |
| 15 x 20 x 1 | 14½ x 19½ x ¾ | 650 | 1050 | – | 18 | 4.0 |
| 16 x 20 x 1 | 15½ x 19½ x ¾ | 650 | 1100 | – | 19 | 4.2 |
| 16 x 25 x 1 | 15½ x 24½ x ¾ | 850 | 1400 | – | 19 | 5.3 |
| 18 x 20 x 1 | 17½ x 19½ x ¾ | 750 | 1250 | – | 22 | 4.9 |
| 18 x 24 x 1 | 17½ x 23½ x ¾ | 900 | 1500 | – | 22 | 5.9 |
| 18 x 25 x 1 | 17½ x 24½ x ¾ | 950 | 1550 | – | 22 | 6.1 |
| 20 x 20 x 1 | 19½ x 19½ x ¾ | 850 | 1400 | – | 24 | 5.3 |
| 20 x 24 x 1 | 19½ x 23½ x ¾ | 1000 | 1650 | – | 24 | 6.4 |
| 20 x 25 x 1 | 19½ x 24½ x ¾ | 1050 | 1750 | – | 24 | 6.7 |
| 20 x 30 x 1 | 19½ x 29½ x ¾ | 1250 | 2050 | – | 37 | 8.2 |
| 24 x 24 x 1 | 23½ x 23½ x ¾ | 1200 | 2000 | – | 29 | 7.7 |
| 25 x 25 x 1 | 24½ x 24½ x ¾ | 1300 | 2150 | – | 31 | 8.6 |
| 10 x 20 x 2 | 9½ x 19½ x 1¾ | 400 | 700 | 850 | 12 | 6.1 |
| 12 x 20 x 2 | 11½ x 19½ x 1¾ | 500 | 850 | 1050 | 14 | 7.1 |
| 12 x 24 x 2 | 11½ x 23½ x 1¾ | 600 | 1000 | 1250 | 14 | 8.5 |
| 14 x 20 x 2 | 13½ x 19½ x 1¾ | 600 | 950 | 1150 | 17 | 8.6 |
| 14 x 25 x 2 | 13½ x 24½ x 1¾ | 750 | 1200 | 1500 | 17 | 10.8 |
| 15 x 20 x 2 | 14½ x 19½ x 1¾ | 650 | 1050 | 1300 | 18 | 9.1 |
| 16 x 20 x 2 | 15½ x 19½ x 1¾ | 650 | 1100 | 1400 | 19 | 9.6 |
| 16 x 24 x 2 | 15½ x 23½ x 1¾ | 800 | 1350 | 1650 | 19 | 11.5 |
| 16 x 25 x 2 | 15½ x 24½ x 1¾ | 850 | 1400 | 1750 | 19 | 12.0 |
| 18 x 20 x 2 | 17½ x 19½ x 1¾ | 750 | 1250 | 1550 | 22 | 11.1 |
| 18 x 24 x 2 | 17½ x 23½ x 1¾ | 900 | 1500 | 1900 | 22 | 13.4 |
| 18 x 25 x 2 | 17½ x 24½ x 1¾ | 950 | 1550 | 1950 | 22 | 13.9 |
| 20 x 20 x 2 | 19½ x 19½ x 1¾ | 850 | 1400 | 1750 | 24 | 12.1 |
| 20 x 24 x 2 | 19½ x 23½ x 1¾ | 1000 | 1650 | 2100 | 24 | 14.6 |
| 20 x 25 x 2 | 19½ x 24½ x 1¾ | 1050 | 1750 | 2150 | 24 | 15.2 |
| 20 x 30 x 2 | 19½ x 29½ x 1¾ | 1250 | 2050 | 2600 | 38 | 19.2 |
| 24 x 24 x 2 | 23½ x 23½ x 1¾ | 1200 | 2000 | 2500 | 29 | 17.6 |
| 25 x 25 x 2 | 24½ x 24½ x 1¾ | 1300 | 2150 | 2700 | 31 | 19.6 |
| 12 x 24 x 4 | 11½ x 23½ x 3¾ | 600 | 1000 | 1250 | 11 | 14.0 |
| 16 x 20 x 4 | 15½ x 19½ x 3¾ | 650 | 1000 | 1400 | 15 | 15.8 |
| 16 x 25 x 4 | 15½ x 24½ x 3¾ | 850 | 1400 | 1750 | 15 | 19.9 |
| 18 x 24 x 4 | 17½ x 23½ x 3¾ | 900 | 1500 | 1875 | 17 | 21.6 |
| 20 x 20 x 4 | 19½ x 19½ x 3¾ | 850 | 1400 | 1750 | 19 | 20.1 |
| 20 x 24 x 4 | 19½ x 23½ x 3¾ | 1000 | 1650 | 2100 | 21 | 22.2 |
| 20 x 25 x 4 | 19½ x 24½ x 3¾ | 1050 | 1750 | 2150 | 19 | 25.1 |
| 24 x 24 x 4 | 23½ x 23½ x 3¾ | 1200 | 2000 | 2500 | 21 | 26.7 |
| 25 x 29 x 4 | 24½ x 28½ x 3¾ | 1500 | 2500 | 3150 | 27 | 35.7 |



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