

PerfectPleat® SC M8

(Standard Capacity MERV 8)

EXTENDED SURFACE PLEATED PANEL FILTERS



- Mechanical efficiency – does not rely on electric charge technology
- Self-supporting DuraFlex® media made from virgin fiber – no wire support needed
- Consistent media with controlled fiber size and blend
- Available in 2" and 4" models
- Environmentally friendly – no dies, no metal, fully incinerable
- Patented media, filter design, and manufacturing process. Patents covered under one or more of the following: US 6398839 B2; US 6254653 B1; US 6159318; US 6165242; US 6387140 B1

PerfectPleat SC M8 filters are designed to consistently increase efficiency throughout the service life of the filter. They have an initial MERV 8 rating respectively, but the efficiency increases significantly when dust loading begins. PerfectPleat SC M8 filters have distinctive self-supporting characteristics that allow a pleating pattern, which promotes airflow and maximizes Dust Holding Capacity (DHC). The PerfectPleat SC M8 filter is best suited for standard capacity pleated panel filter applications, where pleated filters are currently in use. They can also be used to upgrade applications using panel filters.

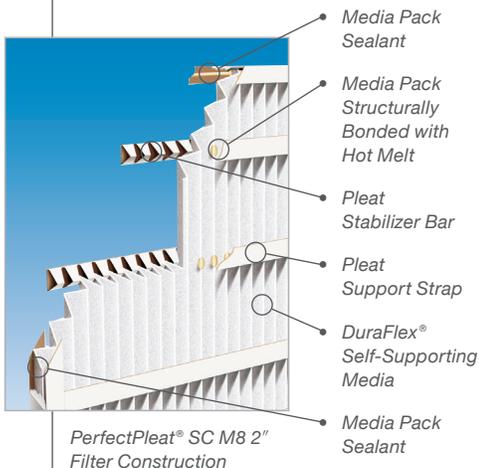
Superior Design and Construction

The perimeter frame is constructed from the highest wet-strength 28 pt. beverage carrier board, securely bonded to the media pack. Support straps on the air entering side are used in combination with uniquely designed pleat stabilizers on the air leaving side of the 2" model to provide additional strength. The support straps and pleat stabilizers ensure integrity against turbulent airflow. The 2" filter resists crushing and abuse and provides excellent lateral stability for installation in side access systems.

The 4" model utilizes a two piece die cut frame with integral pleat spacers on the air leaving side. Pleat spacing is controlled by straps bonded to the air entering side and the multiple rows of pleat spacers on the air leaving side. The pleat spacers also ensure the pleats remain open during use, maximizing filter life.

DuraFlex® Media—Patented Media Design

Uniform size virgin fibers are assembled in closely controlled blends to create a media that is both self-supporting and consistent in performance. When pleated, DuraFlex media will hold its shape without the wire support characteristic of conventional pleated filters. That means no potential for the formation of rust and safer handling. With the superior resiliency of DuraFlex media and no need for wire support, PerfectPleat SC M8 filters can sustain significant abuse and maintain their shape and pleat spacing. The absence of wire also makes the filter totally incinerable, which can simplify disposal.



PerfectPleat® SC M8 Filters

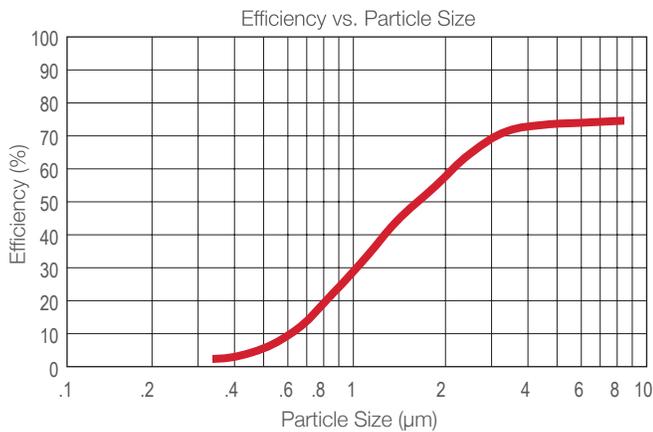
Performance Data

| 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 | 625 FPM | | | |
| 2" PerfectPleat SC M8 | 10 | .13 | .24 | .33 | 1.0 | 8 | 150°F (66°C) |
| 4" PerfectPleat SC M8 | 9 | .11 | .23 | .35 | 1.0 | 8 | 200°F (93°C) |

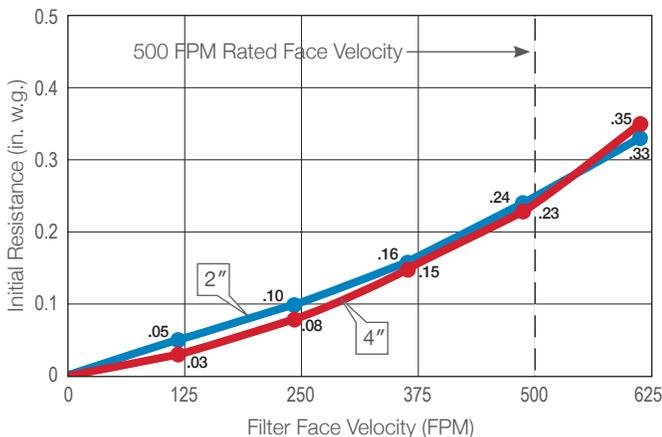
All performance data based on ASHRAE Standard 52.2. Performance tolerance conforms to Section 6.4 of ANSI/AHRI Standard 850-2013.

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

Composite Minimum Efficiency Curve



Initial Resistance vs. Filter Face Velocity



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 |
|------------------------------------|-----------------------------------|----------------------|---------|---------|-------------------|
| | | 300 FPM | 500 FPM | 625 FPM | |
| 10 x 20 x 2 | 9½ x 19½ x 1¾ | 400 | 700 | 850 | 8 |
| 12 x 20 x 2 | 11½ x 19½ x 1¾ | 500 | 850 | 1050 | 10 |
| 12 x 24 x 2 | 11½ x 23¾ x 1¾ | 600 | 1000 | 1250 | 10 |
| 14 x 25 x 2 | 13½ x 24½ x 1¾ | 750 | 1200 | 1500 | 11 |
| 15 x 20 x 2 | 14½ x 19½ x 1¾ | 650 | 1050 | 1300 | 12 |
| 15 x 25 x 2 | 14½ x 24½ x 1¾ | 800 | 1300 | 1650 | 12 |
| 16 x 16 x 2 | 15½ x 15½ x 1¾ | 550 | 900 | 1100 | 13 |
| 16 x 20 x 2 | 15½ x 19½ x 1¾ | 650 | 1100 | 1400 | 13 |
| 16 x 24 x 2 | 15½ x 23¾ x 1¾ | 800 | 1350 | 1650 | 13 |
| 16 x 25 x 2 | 15½ x 24½ x 1¾ | 850 | 1400 | 1750 | 13 |
| 18 x 24 x 2 | 17½ x 23¾ x 1¾ | 900 | 1500 | 1900 | 15 |
| 18 x 25 x 2 | 17½ x 24½ x 1¾ | 950 | 1550 | 1950 | 15 |
| 20 x 20 x 2 | 19½ x 19½ x 1¾ | 850 | 1400 | 1750 | 17 |
| 20 x 24 x 2 | 19½ x 23¾ x 1¾ | 1000 | 1650 | 2100 | 17 |
| 20 x 25 x 2 | 19½ x 24½ x 1¾ | 1050 | 1750 | 2150 | 17 |
| 24 x 24 x 2 | 23¾ x 23¾ x 1¾ | 1200 | 2000 | 2500 | 20 |
| 25 x 25 x 2 | 24½ x 24½ x 1¾ | 1300 | 2150 | 2700 | 21 |
| 12 x 24 x 4 | 11½ x 23¾ x 3¾ | 600 | 1000 | 1250 | 8 |
| 16 x 20 x 4 | 15½ x 19½ x 3¾ | 650 | 1100 | 1400 | 11 |
| 16 x 25 x 4 | 15½ x 24¾ x 3¾ | 850 | 1400 | 1750 | 11 |
| 18 x 24 x 4 | 17½ x 23¾ x 3¾ | 900 | 1500 | 1875 | 12 |
| 20 x 20 x 4 | 19½ x 19¾ x 3¾ | 850 | 1400 | 1750 | 14 |
| 20 x 25 x 4 | 19½ x 24¾ x 3¾ | 1050 | 1750 | 2150 | 14 |
| 24 x 20 x 4 | 23¾ x 19¾ x 3¾ | 1000 | 1650 | 2100 | 14 |
| 24 x 24 x 4 | 23¾ x 23¾ x 3¾ | 1200 | 2000 | 2500 | 17 |
| 25 x 29 x 4 | 24¾ x 28¾ x 3¾ | 1500 | 2500 | 3150 | 21 |

Energy savings may be realized by operating the PerfectPleat SC M8 filters to a lower final resistance. Contact your local AAF representative for a Total Cost Of Ownership analysis for your specific application.

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

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