

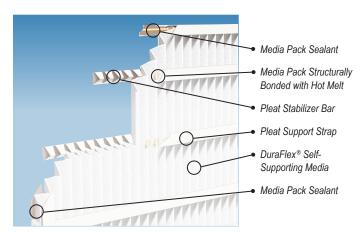
AmericanAirFilter

PerfectPleat® SC M8

Extended Surface, Pleated Filter MERV 8

- Mechanical efficiency does not rely on electret charge technology
- Self-supporting DuraFlex® media made from virgin fiber; no wire support needed
- · Consistent media with controlled fiber size and blend
- · Available in 1", 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.



PerfectPleat® SC M8 2" Filter Construction



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. The 1" model employs three supporting straps on the air-entering and air-leaving sides of the filter to control pleat spacing and support the media pack in the perimeter frame.

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.

American Air Filter

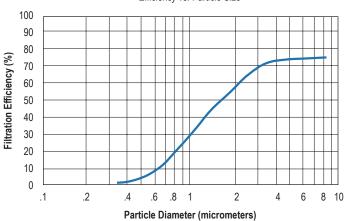
PerfectPleat® SC M8

Performance Data

Filter	Pleats Per Lineal Foot	Rated Initial Res (in. w.g.) 300 FPM 500 FPM		Recommended Final Resistance (in. w.g.)	ASHRAE 52.2 MERV	Continuous Temperature Limit
1" PerfectPleat SC M8	15.0	.23 .42		1.0	8	150°F / 66°C
2" PerfectPleat SC M8	10.0	.13 .27	.39	1.0	8	150°F / 66°C
4" PerfectPleat SC M8	9.0	.11 .23	.35	1.0	8	200°F / 93°C

Composite Minimum Efficiency

Efficiency vs. Particle Size



Resistance to Airflow 0.7 0.6 0.5 Resistance (in. w.g.) 0.4 0.3 0.2 4" 0.1 0 625 125 250 375 500 Airflow (FPM)

Product Information — Standard Sizes

Nominal Sizes	Rated Airflow			Pleats	
(Inches) (Inches)		Capacity (SCFM)		M)	Per Filter
(W x H x D)	(W x H x D)	300 FPM	500 FPM	625 FPM	
10 x 10 x 1 10 x 20 x 1 12 x 12 x 1 12 x 20 x 1 12 x 24 x 1 14 x 20 x 1 14 x 25 x 1 15 x 20 x 1 16 x 16 x 1 16 x 20 x 1 16 x 25 x 1 18 x 20 x 1 18 x 24 x 1 18 x 25 x 1 20 x 20 x 1	9½ x 9½ x ¾ 9½ x 19½ x ¾ 11½ x 11½ x 3¼ 11½ x 19½ x ¾ 11½ x 19½ x ¾ 11¾ x 23¾ x ¾ 13½ x 19½ x ¾ 13½ x 19½ x ¾ 15½ x 19½ x ¾ 15½ x 15½ x ¾ 15½ x 19½ x ¾ 15½ x 19½ x ¾ 17½ x 24½ x ¾ 19½ x 24½ x ¾ 19½ x 19½ x ¾	200 400 300 500 600 750 650 550 650 850 750 900 950 850	350 700 500 850 1000 1000 1200 1050 900 1100 1400 1250 1500 1550 1400		11 11 14 14 14 16 16 17 19 19 19 21 21 21
20 x 25 x 1 24 x 24 x 1	19½ x 24½ x ¾ 23% x 23% x ¾	1050 1200	1750 2000		24 29
25 x 25 x 1	24½ x 24½ x ³ / ₄	1300	2200		30
10 x 20 x 2 12 x 20 x 2 12 x 24 x 2 14 x 25 x 2 15 x 20 x 2 15 x 25 x 2 16 x 16 x 2 16 x 20 x 2 16 x 24 x 2 16 x 25 x 2 18 x 24 x 2 18 x 25 x 2 20 x 20 x 2 20 x 24 x 2 20 x 25 x 2 24 x 24 x 2 25 x 25 x 2	9½ x 19½ x 1¾ 11½ x 19½ x 1¾ 11½ x 19½ x 1¾ 13½ x 24½ x 1¾ 14½ x 19½ x 1¾ 14½ x 19½ x 1¾ 15½ x 15½ x 1¾ 15½ x 15½ x 1¾ 15½ x 24½ x 1¾ 17½ x 24½ x 1¾ 17½ x 24½ x 1¾ 19½ x 19½ x 1¾ 19½ x 19½ x 1¾ 19½ x 19½ x 1¾ 19½ x 23¾ x 1¾ 19½ x 23½ x 1¾ 19½ x 23½ x 1¾ 19½ x 23½ x 1¾ 19½ x 24½ x 1¾ 19½ x 24½ x 1¾ 19½ x 24½ x 1¾	400 500 600 750 650 800 550 650 800 850 900 950 850 1000 1050 1200 1300	700 850 1000 1200 1050 1300 900 1100 1350 1400 1550 1400 1650 1750 2000 2150	850 1050 1250 1500 1300 1650 1100 1400 1650 1750 1950 1750 2100 2150 2700	8 10 10 11 12 12 13 13 13 13 15 15 17 17 17 20 21
12 x 24 x 4 16 x 20 x 4 16 x 25 x 4 18 x 24 x 4 20 x 20 x 4 20 x 25 x 4 24 x 20 x 4 24 x 24 x 4 25 x 29 x 4	11% x 23% x 3¾ 15% x 19% x 3¾ 15% x 24% x 3¾ 17% x 23% x 3¾ 17% x 23% x 3¾ 19% x 19% x 3¾ 23% x 24% x 3¾ 23% x 24% x 3¾ 23% x 23% x 3¾ 23% x 23% x 3¾ 24% x 28% x 3¾	600 650 850 900 850 1050 1000 1200 1500	1000 1100 1400 1500 1400 1750 1650 2000 2500	1250 1400 1750 1875 1750 2150 2100 2500 3150	8 11 11 12 14 14 14 17 21

PerfectPleat SC M8 filters are UL classified.
Testing was performed according to UL Standard 900 and CAN 4-S111.





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