



Better Air is Our Business®

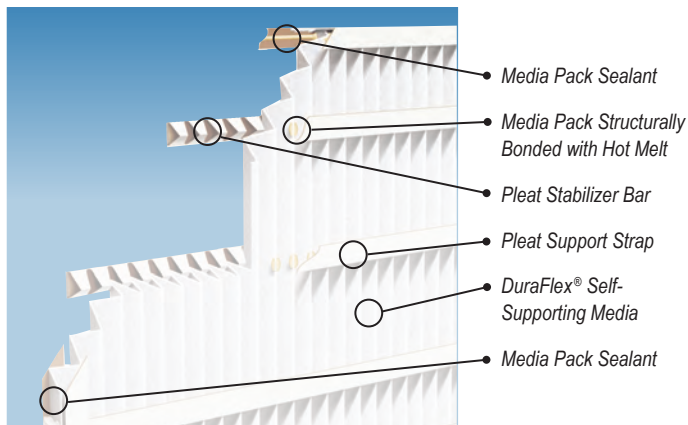
AmericanAirFilter®

PerfectPleat® SC M7

**Extended Surface, Pleated Filter
MERV 7**

- **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 M7 filters are designed to consistently increase efficiency throughout the service life of the filter. They have an initial MERV 7 rating respectively, but the efficiency increases significantly when dust loading begins. PerfectPleat SC M7 filters have distinctive self-supporting characteristics that allow a pleating pattern, which promotes airflow and maximizes dust holding capacity (DHC). The PerfectPleat SC M7 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 M7 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 M7 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.

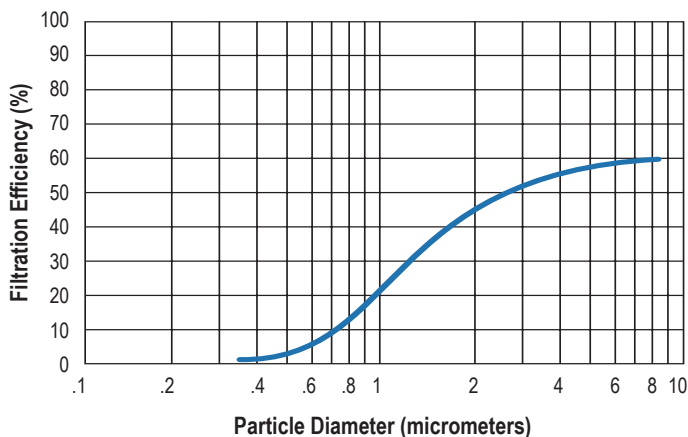
PerfectPleat® SC M7

Performance Data

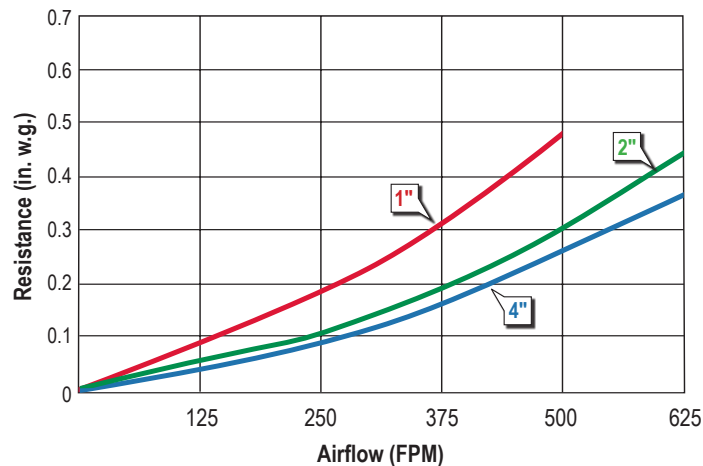
Filter	Pleats Per Lineal Foot	Rated Initial Resistance (in. w.g.)			Recommended Final Resistance (in. w.g.)	ASHRAE 52.2 MERV	Continuous Operating Temperature Limits
		300 FPM	500 FPM	625 FPM			
1" PerfectPleat SC M7	15.0	.23	.48	--	1.0	7	150°F / 66°C
2" PerfectPleat SC M7	10.0	.14	.30	.45	1.0	7	150°F / 66°C
4" PerfectPleat SC M7	9.0	.12	.27	.37	1.0	7	200°F / 93°C

Composite Minimum Efficiency

Efficiency vs. Particle Size



Resistance to Airflow



PerfectPleat® and DuraFlex® are registered trademarks of AAF-McQuay Inc. in the U.S. and Canada.

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 10 x 1	9½ x 9½ x ¾	200	350		11
10 x 20 x 1	9½ x 19½ x ¾	400	700		11
12 x 12 x 1	11½ x 11½ x ¾	300	500		14
12 x 20 x 1	11½ x 19½ x ¾	500	850		14
12 x 24 x 1	11½ x 23½ x ¾	600	1000		14
14 x 20 x 1	13½ x 19½ x ¾	600	1000		16
14 x 25 x 1	13½ x 24½ x ¾	750	1200		16
15 x 20 x 1	14½ x 19½ x ¾	650	1050		17
16 x 16 x 1	15½ x 15½ x ¾	550	900		19
16 x 20 x 1	15½ x 19½ x ¾	650	1100		19
16 x 25 x 1	15½ x 24½ x ¾	850	1400		19
18 x 20 x 1	17½ x 19½ x ¾	750	1250		21
18 x 24 x 1	17½ x 23½ x ¾	900	1500		21
18 x 25 x 1	17½ x 24½ x ¾	950	1550		21
20 x 20 x 1	19½ x 19½ x ¾	850	1400		24
20 x 25 x 1	19½ x 24½ x ¾	1050	1750		24
24 x 24 x 1	23½ x 23½ x ¾	1200	2000		29
25 x 25 x 1	24½ x 24½ x ¾	1300	2200		30
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 23½ 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 23½ x 1¾	800	1350	1650	13
16 x 25 x 2	15½ x 24½ x 1¾	850	1400	1750	13
18 x 25 x 2	17½ x 24½ x 1¾	950	1550	1950	15
18 x 24 x 2	17½ x 23½ x 1¾	900	1500	1900	15
20 x 20 x 2	19½ x 19½ x 1¾	850	1400	1750	17
20 x 24 x 2	19½ x 23½ 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	23½ x 23½ 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 23½ 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 24½ x 3¾	850	1400	1750	11
18 x 24 x 4	17½ x 23½ x 3¾	900	1500	1875	12
20 x 20 x 4	19½ x 19½ x 3¾	850	1400	1750	14
20 x 25 x 4	19½ x 24½ x 3¾	1050	1750	2150	14
24 x 20 x 4	23½ x 19½ x 3¾	1000	1650	2100	14
24 x 24 x 4	23½ x 23½ x 3¾	1200	2000	2500	17
25 x 29 x 4	24½ x 28½ x 3¾	1500	2500	3150	21

PerfectPleat SC M7 filters are UL classified.

Testing was performed according to UL Standard 900 and CAN 4-S111.