



*Better Air is Our Business®*

**AmericanAirFilter®**

## **PerfectPleat® HD M8**

**Heavy Duty Extended Surface, Pleated Filter  
MERV 8**

- **Mechanical efficiency** — does not rely on electret charge technology
- **Operating temperatures up to 200°F (93°C)**
- **Self-supporting DuraFlex® media made from virgin fiber; no wire support needed**
- **Support straps, pleat stabilizers, and die-cut frame provide maximum strength**
- **High capacity model designed for applications where higher efficiency and longer life are critical**
- **Available in 1" and 2" depth models (PerfectPleat HC M8 4" filter incorporates heavy-duty design)**
- **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 (1" model only)**



### **Design and Construction**

The PerfectPleat HD M8 filter is built to withstand more difficult applications, extremely low temperature, and higher airflow. Using AAF's patented PerfectPleat filter as a base, our engineers developed the PerfectPleat HD M8 filter by incorporating maximum structural reinforcement into the PerfectPleat filter's already extremely durable construction. At the heart of the PerfectPleat HD M8 filter is AAF's patented, self supporting DuraFlex media. We retained the support straps and pleat stabilizer assembly characteristic of the innovative PerfectPleat filter media pack. We added a die-cut frame for additional strength and acrylic glue to bond the media pack to the cell sides and give the PerfectPleat HD M8 filter a broader operating temperature range.

### **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 — no nicks or cuts for the installer. With the superior resiliency of DuraFlex media, and no need for wire support, PerfectPleat HD 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.

### **Applications**

The PerfectPleat HD M8 filter is not intended for standard applications, with normal variations in temperature or airflow. PerfectPleat filters can handle those conditions. The PerfectPleat HD M8 filter is the choice when an application routinely challenges filters with very low temperature (down to -40°F/-40°C) and/or high turbulence. If your application has these characteristics, the PerfectPleat HD M8 filter is the ideal choice.



PerfectPleat® HD M8 1" filter  
air entering side

PerfectPleat® HD M8 1" filter  
air leaving side

## PerfectPleat® HD M8

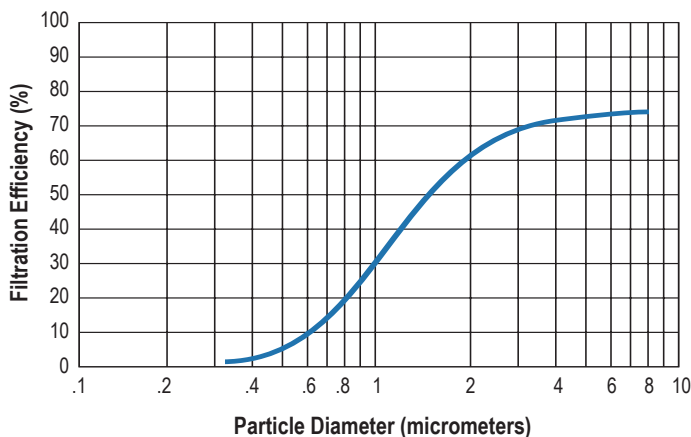
### Performance Data

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 HD M8	15.0	.23	.42	—	1.0	8	200°F / 93°C
2" PerfectPleat HD M8	15.0	.12	.23	.31	1.0	8	200°F / 93°C

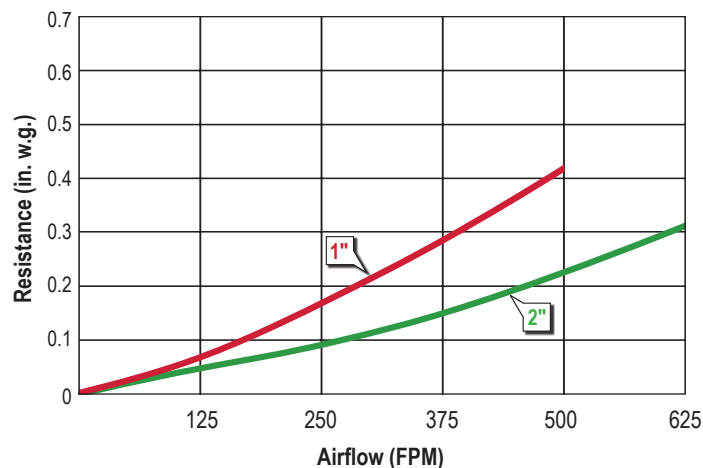
See Brochure AFP-1-210, PerfectPleat HC M8, for 4" heavy-duty design.

### Composite Minimum Efficiency

Efficiency vs. Particle Size



### Resistance to Airflow



### 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
25 x 35 x 1	24½ x 35½ x ¾	1800	3050		41
12 x 20 x 2	11½ x 19½ x 1¾	500	850	1050	14
12 x 24 x 2	11½ x 23½ x 1¾	600	1000	1250	14
14 x 25 x 2	13½ x 24½ x 1¾	750	1200	1500	16
15 x 20 x 2	14½ x 19½ x 1¾	650	1050	1300	17
16 x 20 x 2	15½ x 19½ x 1¾	650	1100	1400	19
16 x 24 x 2	15½ x 23½ x 1¾	800	1350	1650	19
16 x 25 x 2	15½ x 24½ x 1¾	850	1400	1750	19
18 x 24 x 2	17½ x 23½ x 1¾	900	1500	1900	21
18 x 25 x 2	17½ x 24½ x 1¾	950	1550	1950	21
20 x 20 x 2	19½ x 19½ x 1¾	850	1400	1750	24
20 x 24 x 2	19½ x 23½ x 1¾	1000	1650	2100	24
20 x 25 x 2	19½ x 24½ x 1¾	1050	1750	2150	24
24 x 24 x 2	23½ x 23½ x 1¾	1200	2000	2500	29
25 x 25 x 2	24½ x 24½ x 1¾	1300	2150	2700	30

PerfectPleat HD M8 filters are UL classified.

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

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



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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.

ISO Certified Firm