



AmericanAirFilter®

PerfectPleat® HC M8
PerfectPleat®

*1" and 2" Extended Surface,
Pleated Filter with
Process-Controlled Quality*

With DuraFlex® Media

Better Air is Our Business®



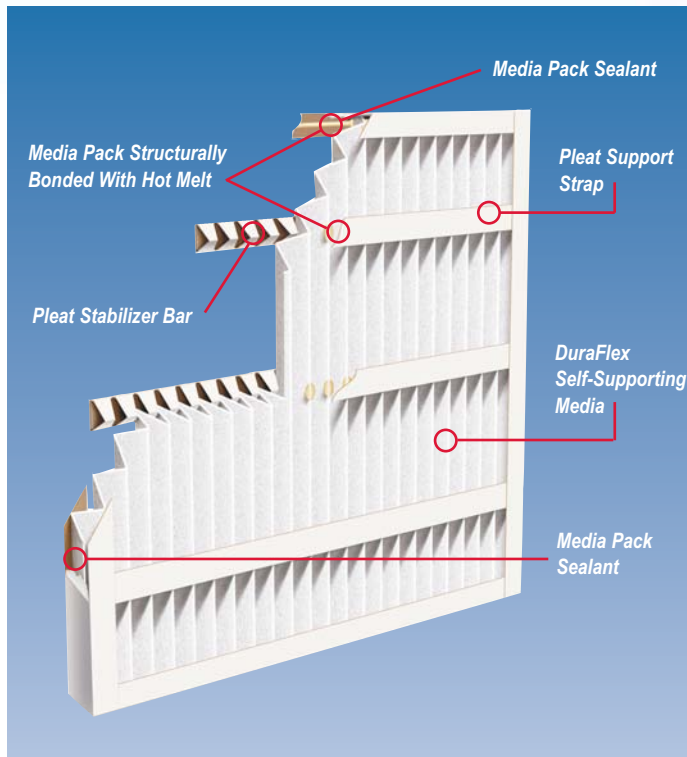
AmericanAirFilter®

PerfectPleat® HC M8 - MERV 8

PerfectPleat® - MERV 7

***Extended Surface, Pleated Filter
with Process-Controlled Quality***

- **Mechanical efficiency** — does not rely on electret charge technology
- **Form and fit unlike any other pleat available today**
- **Self-supporting DuraFlex® media made from virgin fiber; no wire support needed**
- **Consistent media with controlled fiber size and blend**
- **High capacity model, PerfectPleat HC M8, available for applications where higher efficiencies, airflow, and longer life are important**
- **Available in 1", 2" and 4" models**
- **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)**



PerfectPleat 2" Construction

The Air Filtration Leader

AAF International, one of the world's largest manufacturers of air filtration products, is known for technical innovation and excellence. Designed, developed, and patented by AAF, the PerfectPleat is a product with form and fit unlike any other pleated filter in the marketplace today. In addition, the PerfectPleat has the filtering efficiency you need and expect.

Superior Design and Construction

Drawing on years of experience in manufacturing quality air filters, AAF has created a state-of-the-art process for producing pleated filters. The extremely high quality of these filters is a result of three unique innovations: a new, automated manufacturing process; a unique, self-supporting media; and a filter construction that provides incredible strength without wire support.

Since their introduction, pleated filters have become a larger and more important segment of the filtration marketplace. However, conventional design and process are not conducive to the manufacture of consistently pleated media packs or finished filters. Inconsistency in pleat arrangement, variations in media, improper bonding of media to frame, along with antiquated manufacturing techniques, have a negative impact on efficiency, resistance, durability, and strength. The automated and controlled process AAF has developed for the PerfectPleat eliminates these inconsistencies and irregularities. Our automated manufacturing process offers consistency unmatched by conventionally manufactured pleats.

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 remarkably consistent in performance. When pleated, DuraFlex 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 or handler.

With the superior resiliency of DuraFlex media and no need for wire support, the PerfectPleat can sustain significant abuse and maintain its shape and pleat spacing. The absence of the wire also makes the filter totally incinerable, which simplifies disposal. The PerfectPleat meets or exceeds all current expectations for service life.



As a result of its unique design, PerfectPleat can withstand significant damage.



DuraFlex media has "memory" which allows PerfectPleat to remain functional, even when the frame has been compromised.

* See brochure AFP-1-206 for 4" model.

Increasing Efficiency — Throughout Life of the Filter

PerfectPleat is designed to consistently increase its efficiency throughout the service life of the filter. Competitive pleated panel filters, manufactured using an electret charge to obtain the MERV 8 rating, perform with declining efficiency over time. PerfectPleat HC M8 and PerfectPleat have initial MERV 8 and MERV 7 ratings respectively, but the efficiency increases significantly when dust loading begins.

Applications

PerfectPleat's self-supporting characteristics allow a pleating pattern that promotes airflow and maximizes dust holding capacity (DHC). The PerfectPleat HC M8 is ideal for applications where pleated filters are currently in use and higher efficiencies are required or desired. PerfectPleat is best suited for standard capacity pleated filter applications. Heavy Duty (HD) PerfectPleat is available for applications where extremely low temperature and high airflow are present. See Brochure AFP-1-201. Every PerfectPleat offers superior durability and performance when properly installed and maintained.



Environmentally Responsible Air Filtration Solutions

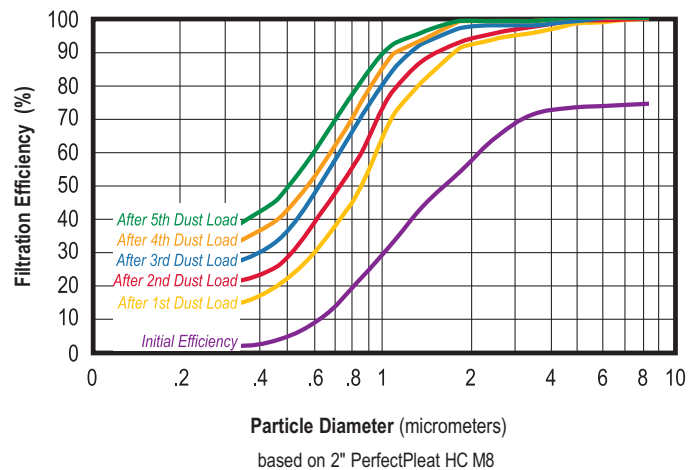
AAF International is committed to operating with a goal of sustainability. We have implemented several initiatives to work and manufacture in an environmentally responsible manner and contribute more to protecting our planet by using fewer natural resources and reducing our carbon footprint. AAF's PerfectPleat product design minimizes base raw material consumption and meets our "Green" product development standards. The PerfectPleat product line is totally incinerable and the absence of support wire simplifies disposal. Used during construction, PerfectPleat HC M8 may contribute to LEED® certification points under IEQ categories.

2" PerfectPleat — Heavy Duty Frame

The perimeter frame of the PerfectPleat HC M8 and PerfectPleat is constructed from the highest wet-strength 28 pt. beverage carrier board available, securely bonded to the media pack. The 28 pt. thickness improves filter strength and helps resist damage.

Uniquely designed pleat stabilizers are bonded to the media on the air leaving side to ensure uniform pleat spacing and provide additional strength. On the air-entering side, support straps add to the PerfectPleat's rigidity. The support straps and pleat stabilizers ensure integrity against turbulent airflow and provide excellent lateral stability for installation in side-access systems.

Particle Size Efficiency Curves



1" PerfectPleat — Strength and Durability

The 1" PerfectPleat HC M8 and PerfectPleat have the same durability and performance as the 2" models. Both are made using DuraFlex media encased in a 28 pt. beverage carrier board frame. PerfectPleat 1" models feature a perimeter frame, with three supporting straps on the air entering and air leaving sides of the filter. Both models resist crushing and abuse and can be used in any application where 1" filters are currently in place. PerfectPleat HC M8 is rated MERV 8 and PerfectPleat rates MERV 7.



PerfectPleat HC M8, 1" thick, air leaving side. A blue stripe designates PerfectPleat HC M8 media.

PerfectPleat® HC M8 -MERV 8

PerfectPleat® -MERV 7

Product Information Standard Sizes

Nominal Sizes (Inches) (W x H x D)	Actual Sizes (Inches) (W x H x D)	Rated Airflow Capacity (SCFM)			Pleats Per Filter			
		300 FPM	500 FPM	625 FPM	PerfectPleat HC M8 1"	PerfectPleat 1"	PerfectPleat HC M8 2"	PerfectPleat 2"
10 x 10 x 1	9 1/2 x 9 1/2 x 3/4	200	350		11	11		
10 x 20 x 1	9 1/2 x 19 1/2 x 3/4	400	700		11	11		
12 x 12 x 1	11 1/2 x 11 1/2 x 3/4	300	500		14	14		
12 x 20 x 1	11 1/2 x 19 1/2 x 3/4	500	850		14	14		
12 x 24 x 1	11 3/8 x 23 3/8 x 3/4	600	1000		14	14		
14 x 20 x 1	13 1/2 x 19 1/2 x 3/4	600	1000		16	16		
14 x 25 x 1	13 1/2 x 24 1/2 x 3/4	750	1200		16	16		
15 x 20 x 1	14 1/2 x 19 1/2 x 3/4	650	1050		17	17		
16 x 16 x 1	15 1/2 x 15 1/2 x 3/4	550	900		19	19		
16 x 20 x 1	15 1/2 x 19 1/2 x 3/4	650	1100		19	19		
16 x 25 x 1	15 1/2 x 24 1/2 x 3/4	850	1400		19	19		
18 x 20 x 1	17 1/2 x 19 1/2 x 3/4	750	1250		21	21		
18 x 24 x 1	17 3/8 x 23 3/8 x 3/4	900	1500		21	21		
18 x 25 x 1	17 1/2 x 24 1/2 x 3/4	950	1550		21	21		
20 x 20 x 1	19 1/2 x 19 1/2 x 3/4	850	1400		24	24		
20 x 25 x 1	19 1/2 x 24 1/2 x 3/4	1050	1750		24	24		
24 x 24 x 1	23 3/8 x 23 3/8 x 3/4	1200	2000		29	29		
25 x 25 x 1	24 1/2 x 24 1/2 x 3/4	1300	2200		30	30		
10 x 20 x 2	9 1/2 x 19 1/2 x 1 3/4	400	700	850			11	8
12 x 20 x 2	11 1/2 x 19 1/2 x 1 3/4	500	850	1050			14	10
12 x 24 x 2	11 3/8 x 23 3/8 x 1 3/4	600	1000	1250			14	10
14 x 25 x 2	13 1/2 x 24 1/2 x 1 3/4	750	1200	1500			16	11
15 x 20 x 2	14 1/2 x 19 1/2 x 1 3/4	650	1050	1300			17	12
15 x 25 x 2	14 1/2 x 24 1/2 x 1 3/4	800	1300	1650			17	12
16 x 16 x 2	15 1/2 x 15 1/2 x 1 3/4	550	900	1100			19	13
16 x 20 x 2	15 1/2 x 19 1/2 x 1 3/4	650	1100	1400			19	13
16 x 24 x 2	15 3/8 x 23 3/8 x 1 3/4	800	1350	1650			19	13
16 x 25 x 2	15 1/2 x 24 1/2 x 1 3/4	850	1400	1750			19	13
18 x 25 x 2	17 1/2 x 24 1/2 x 1 3/4	950	1550	1950			21	15
18 x 24 x 2	17 3/8 x 23 3/8 x 1 3/4	900	1500	1900			21	15
20 x 20 x 2	19 1/2 x 19 1/2 x 1 3/4	850	1400	1750			24	17
20 x 24 x 2	19 3/8 x 23 3/8 x 1 3/4	1000	1650	2100			24	17
20 x 25 x 2	19 1/2 x 24 1/2 x 1 3/4	1050	1750	2150			24	17
24 x 24 x 2	23 3/8 x 23 3/8 x 1 3/4	1200	2000	2500			29	20
25 x 25 x 2	24 1/2 x 24 1/2 x 1 3/4	1300	2150	2700			30	21

PerfectPleat and PerfectPleat HC M8 filters are classified UL Class 2. Testing was performed according to UL Standard 900 and CAN 4-S111.

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			°F	°C
PerfectPleat HC M8 2"	15.0	.16	.33	.43	1.0	8	170°	77°
PerfectPleat 2"	10.0	.14	.30	.45	1.0	7	170°	77°
PerfectPleat HC M8 1"	15.0	.31	.62	----	1.0	8	170°	77°
PerfectPleat 1"	15.0	.20	.48	----	1.0	7	170°	77°