



Better Air is Our Business®

AmericanAirFilter®

PerfectPleat® PerfectPleat® HC M8 PerfectPleat® ULTRA

4" Extended Surface Pleated Filters

- Mechanical efficiency — does not rely on electret charge technology
- Form and fit unlike any other 4" pleat
- Patented media with controlled fiber size and blend
- MERV 7 - available in Standard model
- MERV 8 - available in HC M8 and ULTRA models
- ULTRA made with antimicrobial
- Covered under one or more of the following patents:
US 6398839 B2; US 6254653 B1; US6159318; US 6165242;
US6387140 B1

AAF International proudly offers the 4" PerfectPleat — the best 4" pleated filter in the industry. The 4" PerfectPleat filter offers the same consistent pleat spacing and rugged durability characteristic of the highly successful 2" models, with advancements that add even more strength resulting in one very tough filter.

Design and Construction

AAF engineers drew upon years of experience in filter manufacturing to design a 4" filter worthy of the PerfectPleat name. Each model places a DuraFlex media pack inside of a two piece frame. Straps are added to the air-entering side of the filter to help maintain pleat spacing, while specially designed pleat spacers are inserted in multiple rows on the air-leaving side. The pleat spacers also assist in keeping the pleats open during use, maximizing filter life. The two-piece frame is then assembled around the rigid media pack and is bonded at all contact points with adhesives that ensure resistance to moisture.

The result is fit and finish unlike anything available in a 4" pleat coupled with excellent strength and durability. All frame components, straps, and pleat spacers are constructed of .028 beverage containerboard with the highest wet-strength available.



All PerfectPleat® filters have a die-cut frame on the air-entering side.



DuraFlex® — AAF's Patented Media

Uniform size virgin fibers are assembled in closely controlled blends to create a media that is both self-supporting and consistent in performance. The self-supporting characteristics allow a pleating pattern that promotes excellent dust holding and low initial resistance. DuraFlex media requires no wire support to maintain its shape. No wire means that all 4" PerfectPleat filters are totally incinerable.

Efficiency and Performance

PerfectPleat 4" filters offer the efficiency and low initial resistance that you expect and require. The PerfectPleat filter is rated MERV 7 and has 9 pleats per foot (PPF). PerfectPleat HC M8 and ULTRA filters are rated MERV 8 and have 11 PPF. (See chart on page 2 for additional performance data.)

Applications

The 4" PerfectPleat filters are ideal for any application where pleated filters are in use. These filters are an excellent choice when upgrading to higher efficiencies where 2" pleated filters are used, particularly in front loading frames. 4" PerfectPleat filters can be used as final filters in single bank housings.

Every PerfectPleat filter will provide excellent performance and durability when properly installed and maintained.

PerfectPleat®, PerfectPleat® HC M8, PerfectPleat® ULTRA

Product Information (Standard Sizes)

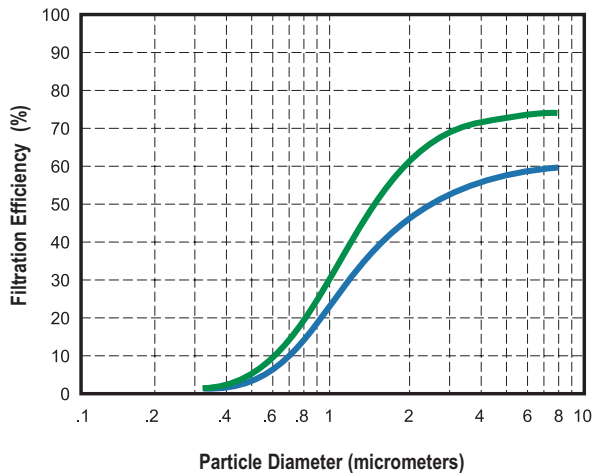
Nominal Sizes* (Inches) (W x H x D)	Actual Sizes (Inches) (W x H x D)	Rated Airflow Capacity (SCFM)		Pleats Per Filter			Filter Media Area (sq. ft.)		
		500 FPM	625 FPM	PerfectPleat	PerfectPleat HC M8	PerfectPleat ULTRA	PerfectPleat	PerfectPleat HC M8	PerfectPleat ULTRA
12 x 24 x 4	11 3/8 x 23 3/8 x 3 3/4	1000	1250	8	11	11	10.4	14.2	14.2
16 x 20 x 4	15 3/8 x 19 3/8 x 3 3/4	1100	1400	11	13	13	11.8	13.9	13.9
16 x 25 x 4	15 3/8 x 24 3/8 x 3 3/4	1400	1750	11	13	13	14.8	17.5	17.5
18 x 24 x 4	17 3/8 x 23 3/8 x 3 3/4	1500	1875	13	15	15	16.8	19.4	19.4
20 x 20 x 4	19 3/8 x 19 3/8 x 3 3/4	1400	1750	14	17	17	15.0	18.2	18.2
20 x 25 x 4	19 3/8 x 24 3/8 x 3 3/4	1750	2150	14	17	17	18.9	22.9	22.9
24 x 20 x 4	23 3/8 x 19 3/8 x 3 3/4	1650	2100	14	17	17	18.1	22.0	22.0
24 x 24 x 4	23 3/8 x 23 3/8 x 3 3/4	2000	2500	17	21	21	22.0	27.2	27.2
25 x 29 x 4	24 3/8 x 28 3/8 x 3 3/4	2500	3150	-	26	26	-	35.0	35.0

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

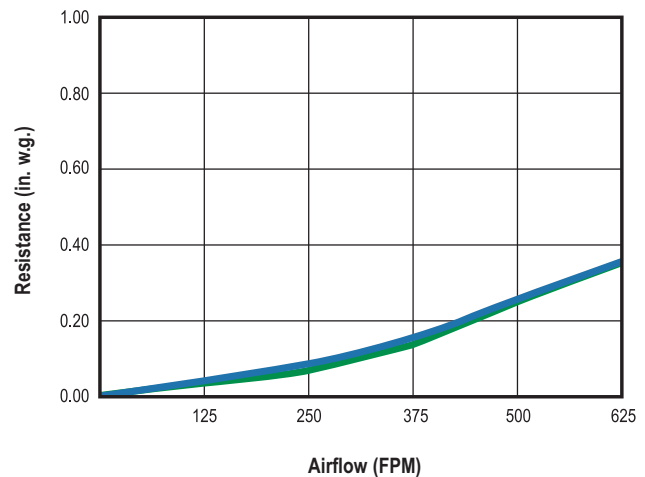
Performance Data

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	
		500 FPM	625 FPM			°F	°C
PerfectPleat 4"	9	.27	.37	1.0	7	200°	93°
PerfectPleat HC M8 4"	11	.26	.37	1.0	8	200°	93°
PerfectPleat ULTRA 4"	11	.26	.37	1.0	8	200°	93°

Composite Minimum Efficiency
Efficiency vs. Particle Size



Filter Resistance to Airflow



— PerfectPleat
— PerfectPleat HC M8 and ULTRA

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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