



AmericanAirFilter®
PerfectPleat® ULTRA

*1" and 2" Extended Surface,
Pleated Filter with Antimicrobial
MERV 8*

Better Air is Our Business® **AAF**
INTERNATIONAL

AmericanAirFilter®

PerfectPleat® ULTRA

**Extended Surface, Pleated Filter
with Process-Controlled Quality
MERV 8**

- **Patented media, filter design, and manufacturing process.** Covered under one or more of the following patents: US 6398839 B2; US 6254653 B1; US 6159318; US 6165242; US 6387140 B1 (1" model only)
- **Premium performance and construction**
- **Self-supporting media; no wire supporting grid**
- **Tested in accordance with ASHRAE Standard 52.2**
- **Incorporates antimicrobial**
- **Available in 1", 2" and *4" models**



PerfectPleat with Antimicrobial

The American Air Filter PerfectPleat leads the industry. Uniform pleat spacing and patented DuraFlex® media make it strong. Uniform size virgin fibers assembled in closely controlled blends give it remarkably consistent performance. Now AAF has taken the next step by creating a MERV 8 DuraFlex media and incorporating antimicrobial. The result is the PerfectPleat ULTRA.

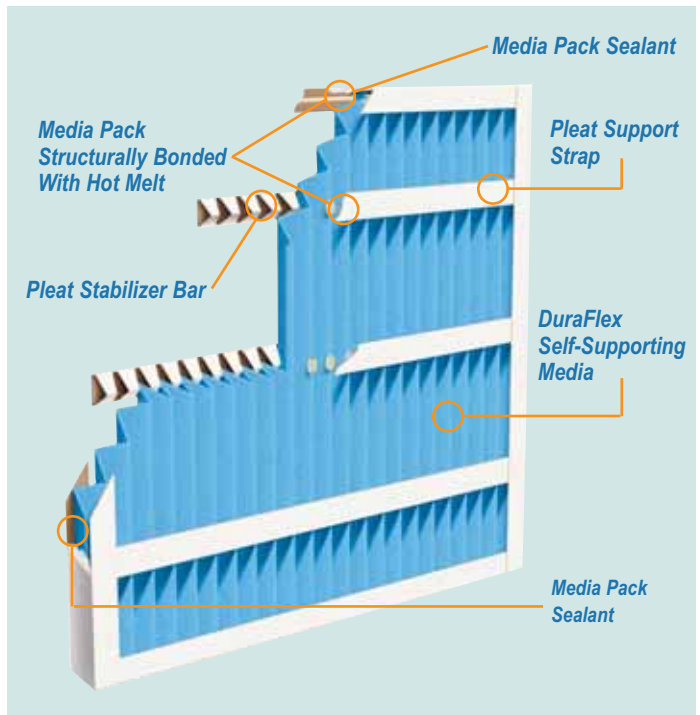
MERV 8 performance means better than 70% initial efficiency on 3.0-10.0 micron particles (PerfectPleat ULTRA becomes much more efficient after the first dust loading). DuraFlex media employs principles of mechanical filtration so that efficiency increases as the filter does its job. DuraFlex media is not enhanced by an electret charge that dissipates over time reducing media efficiency, in some instances significantly.

Antimicrobial is applied to preserve the integrity of the media throughout the filter's useful life by inhibiting microbial growth.

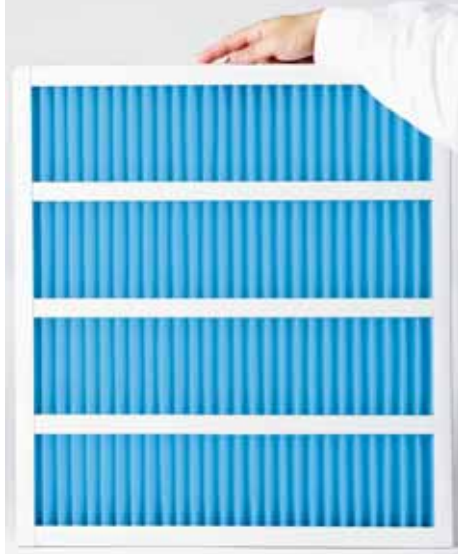
DuraFlex® Media — Patented Media Design

DuraFlex is a self-supporting media that is remarkably consistent in performance. The self-supporting characteristics allow a pleating pattern that promotes excellent dust holding and low resistance to airflow. DuraFlex media meets or exceeds all current expectations for performance and service life for conventional pleated filters.

PerfectPleat ULTRA 2" Construction



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



PerfectPleat ULTRA with DuraFlex media produces a filter with excellent form and fit.



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



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

The Benefits of Self-Supporting DuraFlex Media

When pleated, DuraFlex will hold its shape without the wire pleat support grid characteristic of competitors' pleated filters. That means no potential for the formation of rust on the filter. It also means safer handling - no nicks or cuts for the installer. With the superior resiliency of DuraFlex media and no need for wire support, the PerfectPleat can sustain significant abuse and maintain its shape and consistent pleat spacing. The absence of wire also makes the filter totally incinerable, which simplifies disposal.

Heavy Duty Frame

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

Patented tri-bar pleat stabilizers are bonded to the media to ensure uniform pleat spacing and provide additional strength. Three sets of pleat stabilizers are bonded to the air-leaving side of the filter. On the air entering side, three support straps enhance the PerfectPleat ULTRA's strength and durability. The pleat straps and the pleat stabilizers ensure stability against turbulent airflow and provide excellent lateral stability for installation in side-access systems.

Applications

The PerfectPleat ULTRA is ideal for applications where pleated filters are currently in use and higher efficiencies are desired or required. It is also suited to high moisture conditions where bacterial growth may be likely to occur on air filters. The antimicrobial treated media used in the PerfectPleat ULTRA minimizes the chance of bacterial growth.

Every PerfectPleat ULTRA offers superior durability and performance when properly installed and maintained.



PerfectPleat ULTRA 2" air leaving side.



PerfectPleat ULTRA 2" air entering side.

AmericanAirFilter®

PerfectPleat® ULTRA

Product Information — Standard Sizes

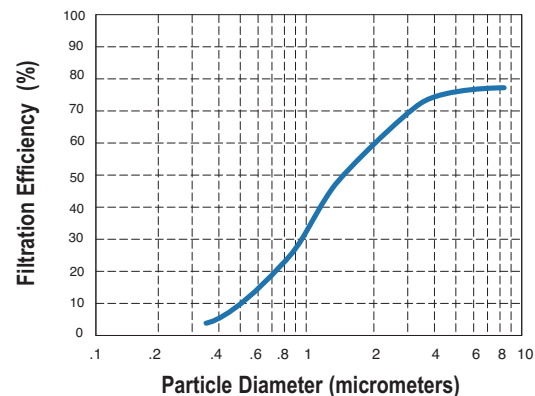
Nominal Sizes* (Inches) (W x H x D)	Actual Sizes (Inches) (W x H x D)	Rated Airflow Capacity (SCFM)			Pleats Per Filter 1"
		300 FPM	500 FPM	625 FPM	
10 x 10 x 1	9-1/2 x 9-1/2 x 3/4	200	350		11
10 x 20 x 1	9-1/2 x 19-1/2 x 3/4	400	700		11
12 x 12 x 1	11-1/2 x 11-1/2 x 3/4	300	500		14
12 x 20 x 1	11-1/2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

PerfectPleat filters are classified U.L. Class 2. Testing was performed according to U.L. Standard 900 and CAN 4-S111.
 *1-inch filters are constructed the same as 2" filters except they have straps on both air entering and air leaving sides.

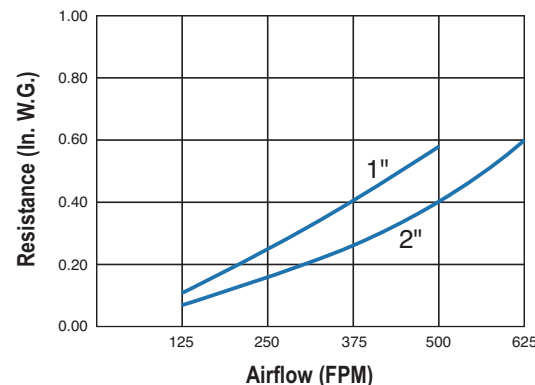
Performance Data

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 ULTRA	15	.29	.59	—	1.0	8	170°F / 76°C
2" PerfectPleat ULTRA	15	.20	.40	.52	1.0	8	170°F / 76°C

Composite Minimum Efficiency
Efficiency Vs. Particle Size



Resistance to Airflow



Better Air is Our Business®

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ISO Certified 9001:2000

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

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