



Better Air is Our Business®

AmericanAirFilter® PerfectPleat® ULTRA

***Extended Surface, Pleated Filter
with Antimicrobial
MERV 8***

- *Mechanical efficiency — does not rely on electret charge technology*
- *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® Filter with Antimicrobial

AAF's industry leading PerfectPleat filter, with uniform pleat spacing and patented DuraFlex® media, is designed for strength. Uniform size virgin fibers assembled in closely controlled blends give it remarkably consistent performance. Additionally, AAF has taken MERV 8 DuraFlex media and incorporated antimicrobial. The result is the PerfectPleat ULTRA filter.

MERV 8 performance means better than 70% initial efficiency on 3.0-10.0 micron particles (the PerfectPleat ULTRA filter 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.

Applications

The PerfectPleat ULTRA filter 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.

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

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



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 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 or handler.

With the superior resiliency of DuraFlex media and no need for wire support, the PerfectPleat ULTRA filter 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 ULTRA filter meets or exceeds all current expectations for service life.

Heavy Duty Frame

The perimeter frame of the PerfectPleat ULTRA filter 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 filter'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.

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	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	11¾ x 23¾ 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 23¾ 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	23¾ x 23¾ x ¾	1200	2000		29
25 x 25 x 1	24½ x 24½ x ¾	1300	2200		30
2"					
10 x 20 x 2	9½ x 19½ x 1¾	400	700	850	11
12 x 20 x 2	11½ x 19½ x 1¾	500	850	1050	14
12 x 24 x 2	11¾ x 23¾ 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
15 x 25 x 2	14½ x 24½ x 1¾	800	1300	1650	17
16 x 16 x 2	15½ x 15½ x 1¾	550	900	1100	19
16 x 20 x 2	15½ x 19½ x 1¾	650	1100	1400	19
16 x 24 x 2	15¾ x 23¾ x 1¾	800	1350	1650	19
16 x 25 x 2	15½ x 24½ x 1¾	850	1400	1750	19
18 x 25 x 2	17½ x 24½ x 1¾	950	1550	1950	21
18 x 24 x 2	17½ x 23¾ x 1¾	900	1500	1900	21
20 x 20 x 2	19½ x 19½ x 1¾	850	1400	1750	24
20 x 24 x 2	19¾ x 23¾ 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	23¾ x 23¾ x 1¾	1200	2000	2500	28
25 x 25 x 2	24½ x 24½ x 1¾	1300	2150	2700	30

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

*1 in. filters are constructed the same as 2 in. 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	.31	.62	—	1.0	8	150°F / 66°C
2" PerfectPleat ULTRA	15	.16	.33	.43	1.0	8	150°F / 66°C

See Brochure AFP-1-206 for 4" model.

