AmericanAirFilter®

AmAir®

Extended Surface Pleated Panel Filters

- **Premium performance and construction**
- **High loft media increases dust holding capacity**
- **Contoured Pleat Design**
- **Available with Intersept®**
- **Wide selection range**

The AmAir® panel filters are constructed with AAF's totally unitized, double wall, die-cut box, moisture resistant beverage board frame. The media is bonded inside the frame at all points of contact, providing a sturdy, reliable construction that does not rack or deteriorate under difficult operating conditions.
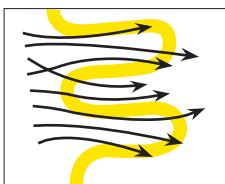
The media pack support retainers, which are an integral part of the frame at both the air entering and leaving sides, increase filter rigidity. It helps maintain equidistant spacing between pleats for maximum dust holding capacity while minimizing resistance.

The AmAir® panel filters are ideal for use as prefilter in combination with high efficiency filters. It helps extend the life of the higher efficiency filter from premature dust loading and replacement.

High Loft Media Increases Dust Holding Capacity

AmAir® media is a special blend of non-woven cotton and synthetic fibers formed into a high loft mat for maximum media thickness to hold more dust.

High Loft Media Increases Dust Holding Capacity

The contoured shape of the pleats, which are formed by an expanded metal support grid (300E, 200E & 100E) permits air to exit freely through the bottom of the pleats, as well as along the entire depth. Dust collects uniformly over the entire media and does not build up in the exit apexes as it would in V-shaped pleats.

The unique design maximizes media usage and results in a more gradual rise in resistance and higher dust loading capacity.
While the expanded metal support grid increases the stability of the pleat pack, thus reducing media flutter during operation.

Available with Intersept®

The AmAir® filter with Intersept® antimicrobial is engineered to improve Indoor Air Quality (IAQ).
Intersept® acts as a preservative to ensure the integrity of the media throughout the life of the filter. EPA registered and environmentally safe, Intersept® inhibits the growth of microorganisms documented to affect IAQ.

Wide Selection Range

Choose from three levels of filter performance.

Range	Grade
300E	Premium
200E	Commercial
100E	Standard

Specification

Maximum Operating Temperature	:	93°C (200°F)
Media	:	Non-woven cotton and synthetic fibers
Support Grid	:	Welded wire mesh or expanded metal support grid
Frame	:	Double wall, water resistant beverage board

Performance Data

Range	Pleats Per Liner Foot	Rated Initial Resistance					
		300 FPM		500 FPM		625 FPM	
		(In. WG)	(Pa)	(In. WG)	(Pa)	(In. WG)	(Pa)
AmAir 300E Intersept®							
1"	14.0	0.20	50	0.45	113	-	-
2"	14.0	0.13	33	0.30	75	0.44	110
4"	11.0	0.12	30	0.25	63	0.36	90
AmAir 200E							
2"	11.0	0.11	28	0.25	63	0.35	88
4"	9.0	0.10	25	0.22	55	0.32	80
AmAir 100E							
2"	8.0	0.12	30	0.27	68	0.38	95
4"	8.0	0.10	25	0.22	55	0.33	83

Product Information

Nominal Sizes (W x H x D) (Inches)	(mm)	Rated Air Flow Capacity 300 FPM	500 FPM (CFM)	625 FPM	300E Intersept® Pleat Per Filter	Gross Media Area (sq. ft)	200E Pleat Per Filter	Gross Media Area (sq. ft)	100E Pleat Per Filter	Gross Media Area (sq. ft)	Rated Average Efficiency (%)	Arrestance (%)
12x24x1	305x610x25	600	1000	-	14	3.9	-	-	-	-	25-30	90-92
16x20x1	406x508x25	650	1100	-	20	4.7	-	-	-	-	25-30	90-92
16x25x1	406x635x25	850	1400	-	20	5.9	-	-	-	-	25-30	90-92
20x20x1	508x508x25	850	1400	-	24	5.6	-	-	-	-	25-30	90-92
20x25x1	508x635x25	1050	1750	-	24	7.0	-	-	-	-	25-30	90-92
24x24x1	610x610x25	1200	2000	-	28	7.9	-	-	-	-	25-30	90-92
12x24x2	305x610x51	600	1000	1250	14	9.2	11	6.8	7	5.1	25-30	90-92
16x20x2	406x508x51	650	1100	1400	19	9.9	14	7.2	10	5.3	25-30	90-92
16x25x2	406x635x51	850	1400	1750	19	12.5	14	9.0	10	6.7	25-30	90-92
18x24x2	457x610x51	900	1500	1900	21	13.0	16	9.3	11	7.0	25-30	90-92
20x20x2	508x508x51	850	1400	1750	23	12.2	17	8.7	12	6.4	25-30	90-92
20x24x2	508x610x51	1000	1650	2100	23	14.9	17	10.5	12	8.0	25-30	90-92
20x25x2	508x635x51	1050	1750	2175	23	15.3	17	10.9	12	7.7	25-30	90-92
24x24x2	610x610x51	1200	2000	2500	28	17.6	21	13.0	15	10.0	25-30	90-92
12x24x4	305x610x102	600	1000	1250	10	12.8	8	10.3	7	9.0	25-30	90-92
16x20x4	406x508x102	650	1100	1400	14	13.9	12	12.2	10	10.8	25-30	90-92
16x25x4	406x635x102	850	1400	1750	14	17.4	12	16.0	10	13.5	25-30	90-92
18x24x4	457x610x102	900	1500	1900	16	19.3	14	16.7	11	14.2	25-30	90-92
20x20x4	508x508x102	850	1400	1750	17	18.2	15	15.0	12	12.9	25-30	90-92
20x25x4	508x635x102	1050	1750	2150	17	22.7	15	18.7	12	16.1	25-30	90-92
24x24x4	610x610x102	1200	2000	2500	21	27.0	18	23.1	15	19.4	25-30	90-92
29x25x4	737x635x102	1500	2500	3150	26	33.4	23	28.9	18	24.2	25-30	90-92

Note: 1). The actual face dimension of all filter sizes is 5/8" (16mm) under nominal face dimension.
2). Width and height dimensions are interchangeable. All AmAir filters may be installed with the pleats either vertical or horizontal.
3). All performance data is based on the ASHRAE 52.1-1992 test method. Performance tolerances conform to Section 7.4 of Standard 850-93.
4). AmAir 300X, 300E, 200E and 100E filters are classified U.L. Class 2. Testing was performed according to U.L. Standard 900.
5). Recommended final resistance: 1.0" W.G/250Pa for all models.
6). Special sizes available upon request.

Efficiency vs Particle Size

Tested in accordance with ASHRAE test standard 52.2P

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