

FILTRATION MANUFACTURING, INC.
47 J. FARIS DRIVE
ANDALUSIA, ALABAMA 36420
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1" MODEL



A+2000 TECHNICAL DATA SHEET

Materials

The A+2000 is constructed of exceptionally durable synthetic materials, including polystyrene and specially woven polypropylene fibers. These materials provide extremely long life and are resistant to degradation. Because the A+2000 uses no foam, it can be effectively cleaned and reused indefinitely.

Filtering Mechanism

The A+2000 is an electrostatic air filter which uses a combination of impingement and charged particle attraction as its filtering mechanism. It has been recognized that the electrostatic attraction between oppositely charged bodies will withdraw particles from the air stream to the oppositely charged filtering media. Even if only one of the materials - particles or fibers - is charged, it may still induce a charge on the neutral material to produce a polarization force.

Test Methodology

Lab tested by the Air Filter Testing Laboratories, Inc. in accordance with the American Society of Heating, Refrigeration and Air Conditioning Engineers ASHRAE® Standard 52-76. If you have additional technical questions, please call 1-800-239-9495.

MODEL TESTED/Size	24x24x1
MEDIA TYPE	WOVEN SYNTHETIC W/ POLYGLASS
MEDIA AREA	3.36 Ft ²
TEST AIR FLOW RATE	1200 CFM
POLLEN (GIANT RAGWEED) INCREMENT	10G
INITIAL POLLEN (GIANT RAGWEED) REMOVAL EFFICIENCY	88%
INITIAL RESISTANCE	.13
ARRESTANCE CAPABILITIES (PEAK)	85%
AVERAGE SYNTHETIC DUST WEIGHT ARRESTANCE	83%
INITIAL ATMOSPHERIC DUST SPOT EFFICIENCY	<20%
AVERAGE ATMOSPHERIC DUST SPOT EFFICIENCY	<20%
ASHRAE DUST HOLDING CAPACITY	105 GM (.5 WG) 150 GM (1.0 WG)
DUST FEEDING RATE	2.0 GM/1000 CF
FLAME RETARDANCY	AIR FILTER UNIT CLASSIFIED BY UNDERWRITERS LABORATORIES, INC.® AS TO FLAMMABILITY ONLY. CLASS 2 5M48

Air Flow Efficiency

Employing a multi-layer peak and valley design, the A+2000 offers excellent air flow characteristics. Resistance to air flow is a critical factor in ventilation, especially if air-conditioning is involved. Excessive resistance can cause freezing of the cooling coils and could burn out the unit's compressor, a very expensive item to replace.

AIR FLOW RECOMMENDATIONS

Standard Size Filter	Minimum/Maximum Air Flow
12 x 24	450 - 900 CFM
12 x 30	500 - 1000 CFM
14 x 14	525 - 1050 CFM
14 x 25	550 - 1100 CFM
14 x 30	660 - 1315 CFM
16 x 20	500 - 1000 CFM
16 x 25	625 - 1250 CFM
16 x 30	700 - 1400 CFM
18 x 24	675 - 1350 CFM
18 x 25	700 - 1400 CFM
20 x 20	625 - 1250 CFM
20 x 25	780 - 1560 CFM
20 x 30	1000 - 1900 CFM
24 x 24	1000 - 1900 CFM
24 x 30	1025 - 2050 CFM



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* ANSI/ASHRAE Standard 52.1-1992, Gravimetric and Dust Spot Procedures for Testing Air Cleaning Devices Used in General Ventilation for Removing Particulate Matter, American Society of Heating, Refrigeration and Air-Conditioning Engineers, Inc. Atlanta, GA 30329.