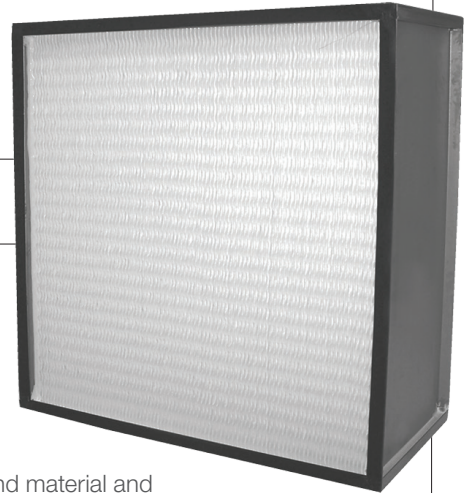


Alpha™ 2000

HIGH CAPACITY HEPA FILTERS



- Efficiencies are 99.97% and 99.99% on 0.30 micrometer particles
- High capacity Alpha 2000 filters can reduce the filter bank size
- Corrugated aluminum separators stabilize the moisture-resistant media pack (separator style)
- Available as a separatorless media filter with a self-supporting media pack (Pureform®)
- Available in a variety of frame materials, in gasket or fluid seal design

High Capacity Design

The Alpha 2000 high capacity HEPA filter is available in a nominal 12" depth configuration. It is designed for optimum performance and low operating costs in both new and replacement systems.

The Alpha 2000 saves space, energy, and material and labor costs, with 40% more media area than the standard capacity Alpha Cell filter.

Save Energy

Alpha 2000 HEPA filters operate at 500 FPM (2000 CFM for a 24" x 24" size) at 1.35" w.g. clean pressure drop versus conventional Alpha Cell filters that operate at 250 FPM and 1" w.g. clean pressure drop.

Superior Design and Construction

A popular construction option consists of 16-gauge galvanized frames and moisture-resistant microfine wet-laid fiberglass media folded over hemmed edge low amplitude corrugated aluminum separators. The filter pack is bonded to the frame by a fire-retardant urethane elastomer to provide a rigid leak-free assembly.

Efficient Performance

Alpha 2000 filters in a conventional HEPA filter bank impose a lighter load on the fan when operated at conventional 250 FPM velocities during the life of the filters. The Alpha 2000 (99.97% and 99.99%) high capacity 24" x 24" x 11½" filter has a clean pressure drop of 1" w.g. at 1500 CFM, compared to standard Alpha Cell filters with a clean pressure drop of 1½" w.g. at the same airflow.

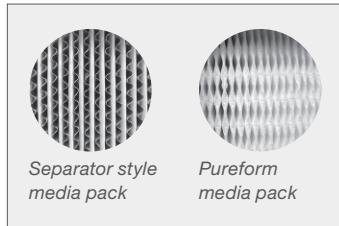
Save Replacement Material and Labor Costs

Savings are significant with high capacity Alpha 2000 filters. They operate at lower velocities and provide life cycles up to three times the life of standard capacity filters. Savings are achieved in replacement materials and labor costs as a result of fewer filters.

Alpha™ 2000 Filters

Separator or Separatorless

AAF Flanders manufactures both conventional separator style and Pureform® separatorless HEPA filters. The media of a separator style filter is folded over corrugated aluminum



separators with hemmed edges to separate the pleats in the filter pack. AAF Flanders manufactures its own filter media, enabling a unique manufacturing process for the production of Pureform separatorless HEPA filters.

The Pureform filter offers many advantages over conventional separator style HEPA filters:

- More usable media area for longer service life because of higher dust holding capacity
- Reduced cost of ownership because of longer service life
- Maximum utilization of the media
- Can handle harsh environments that can damage aluminum separators
- Media pack can be incinerated
- Pureform media is 28 mil thick, which is significantly thicker than conventional 15 mil media used in separator style HEPA filters

Product Information

Filter Size and Frame Depth Designator	Actual Size (inches) (HxWxD)	CFM Capacity at Clean Pressure Drop, Inches w.g.			Weight (lbs.)
		.95	1.35	1.75	
GG-F	24 x 24 x 11½	1500	2000	2500	38
GC-F	24 x 12 x 11½	650	920	1180	26
YY-F	23¾ x 23¾ x 11½	1350	1900	2450	37
YU-F	23¾ x 11¾ x 11½	610	865	1150	25
GN-F	24 x 30 x 11½	1750	2550	3250	45
CC-F	12 x 12 x 11½	290	430	550	14

NOTE: The pressure drop for fluid seal (Separator or Pureform) and scan tested Pureform filters will be approximately 15% higher.

Frame Materials: Alpha 2000 filters are available in a variety of wood and metal frame materials, such as particle board, plywood, galvanized steel, and stainless steel.

Gasket and Fluid Seal: The standard gasket seal is ¾" x ¼" neoprene for installation on either the upstream, downstream or both sides of the filter. The standard fluid seal is a two-part silicone material suitable for temperatures up to 356°F.

Faceguards (Optional): Faceguards are used to protect the filter media from mechanical damage. The typical faceguard material is expanded aluminized steel. Galvanized 4 x 4 mesh welded wire and Type 304 stainless steel are also available.

Underwriters Laboratories Qualification: Alpha 2000 filters are UL Classified.

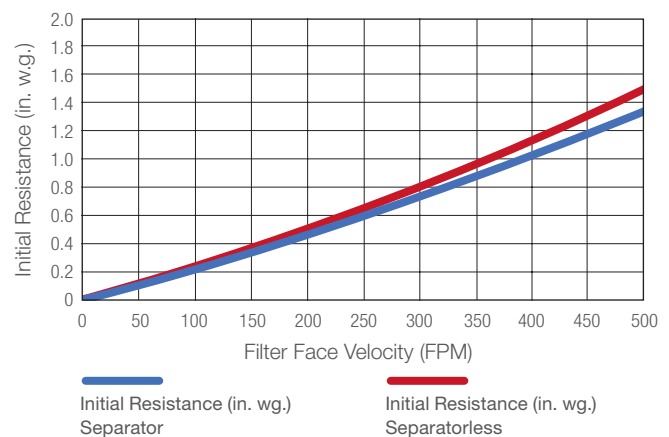
UL 900 – AAF Flanders HEPA filters are UL900 classified, except those filters manufactured with non-fire-retardant wood frames. Upon request, the filter will have a stamp indicating compliance with UL 900.

UL 586 – UL 586 is typically required for Nuclear Grade HEPA filters. Many of the AAF Flanders non-Nuclear HEPA filters meet the requirements of UL 586. To be listed under UL 586, filters must be submitted to Underwriters Laboratories for extensive testing, including spot flame and environmental exposure to heated air. Upon request, a numbered UL 586 label certifying that the filter meets Standard 586 can be applied to the filter (maximum size is 24" x 30").

Banks: Alpha frames are designed for Alpha 2000 filters in built-up filter banks. Each filter is secured in the frame with four bolt-type fasteners that either compress the gasket or press the knife edge into the gel in the filter channel to maintain a leak-tight seal. Surelock HEPA filter housings are recommended for side-access applications. The filters are sealed in place with either spring-loaded swing arm assemblies or a locking mechanism. The swing arm assemblies or locking mechanism either compress the gasket or press the knife edge into the gel in the filter channel to maintain a leak-tight seal.

Performance Data

Initial Resistance vs. Filter Face Velocity



Pureform® is a registered trademark of Flanders Corporation in the U.S.

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Bringing clean air to life.®

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

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