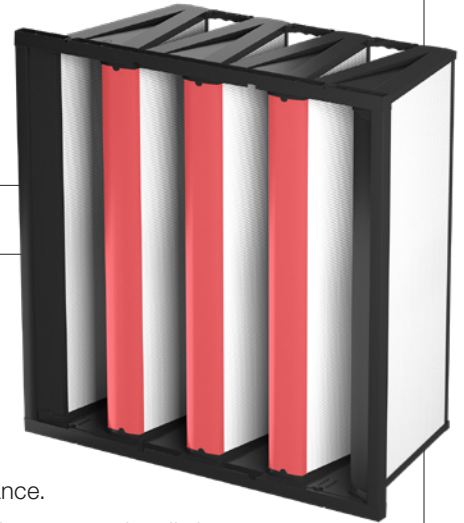


BioShield™ VXL High Flow

ANIMAL SCIENCE FILTRATION



Why airflow matters in animal barns:

- Improved air quality for both animals and barn workers
- Reduced respiratory stress on animals
- Improved growth performance and feed efficiency
- High-efficiency filtration to support biosecurity programs

Specifications:

- MERV 16/16A (ASHRAE Standard 52.2)
- 15% greater airflow than a standard MERV 16 V-bank
- Airflow @ 0.15" W.G. – 700 CFM
- 200 Sq. Ft. Media area
- Fully incinerable



High Efficiency Filtration with Industry-Leading Airflow

For swine and poultry producers focused on biosecurity and disease prevention, the BioShield VXL High Flow is a 12-inch, high air flow V-bank filter designed to deliver MERV 16 filtration efficiency with industry-leading performance.

The advanced design and media selection provide an exceptionally low pressure drop compared to traditional V-bank filters - leading to a 15% higher airflow than standard MERV 16 V-bank filters, while maintaining the high-efficiency filtration required to help protect barns from airborne disease transmission.

Lower Project Costs for New Construction

When designing new animal housing facilities, the BioShield VXL High Flow helps engineers achieve required ventilation rates with a lower system resistance. This can reduce the overall size and complexity of the ventilation system, and allows for:

- Fewer filters required in the filtration bank
- A smaller filtration footprint
- Reduced fan power requirements

Increase Airflow in Existing Barns

For retrofit or replacement applications, the BioShield VXL High Flow improves ventilation performance while maintaining MERV 16 filtration efficiency.

If replacing standard MERV 16 filters, the high-flow design delivers up to 15% more airflow, helping existing systems move more air through the barn. If upgrading from MERV 15, BioShield VXL High Flow provides MERV 15-level airflow with MERV 16 protection, eliminating the need to add filters or retrofit ventilation systems. This allows producers to improve filtration efficiency while maintaining current infrastructure, resulting in increased airflow without expanding filter banks and avoiding costly modifications to existing barn layouts or ventilation systems.

Intelligent Airflow Design

Our advanced manufacturing technology improves media pack construction and ensures consistent pleat formation. Recessed pleat packs allow optimal airflow between the prefilter and final filter in close-coupled filtration systems. Thermoplastic glue bead separators maintain uniform spacing between pleats, allowing air to flow evenly through the filter, all leading to an industry leading airflow in a V-Bank filter.

Easy to Transport and Handle

The BioShield VXL High Flow V-bank filter is significantly lighter and easier to handle than traditional 12-inch deep box-style ASHRAE and HEPA grade filters with metal cell sides, which reduces transportation costs and installation effort.

BioShield™ VXL High Flow

Product Information – Standard Sizes

Nominal Sizes (Inches) (W x H x D)	Actual Sizes (Inches) (W x H x D)	Airflow Capacity		Media Area (sq. ft.)
		@ 0.15" w.g.	@ 0.20" w.g.	
24 x 12 x 12	23 ³ / ₈ x 11 ³ / ₈ x 12	350	460	88
24 x 20 x 12	23 ³ / ₈ x 19 ³ / ₈ x 12	620	770	161
24 x 24 x 12	23 ³ / ₈ x 23 ³ / ₈ x 12	700	930	200

Maximum Operating Temperature
176°F/80°C

Media

Ultra-fine microglass paper formed into pleats.

Cell Sides

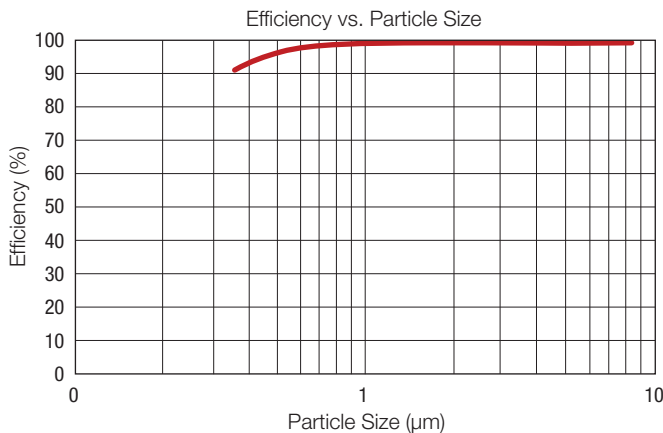
The molded end panels and extrusions are made of High Impact Polystyrene (HIPS).

Separators

Beads of low profile thermoplastic material.

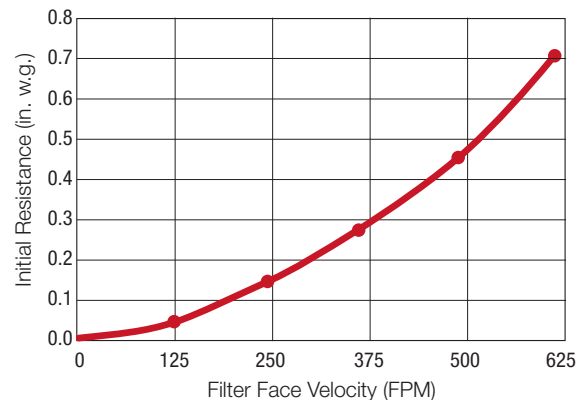
Performance Data

Composite Minimum Efficiency Curve



Tested in accordance with ASHRAE Standard 52.2.

Initial Resistance vs. Filter Face Velocity



Recommended final resistance for all BioShield VXL filters is 1.5 in. w.g.

Significant energy savings may be realized by operating the BioShield VXL filter to a lower final resistance. Contact your local AAF International representative for a Total Cost of Ownership (TCO) analysis for your specific application.

**Note: Estimated CFM is a comparative metric between products and is done in a controlled environment under variable conditions. At .15/.20 inches w.g. a .01" change will result in a 125 cfm fluctuation. This is impacted both by temperature and humidity of the test facility, it is always best to reach out to your AAF Sales Representative for the best solution to your application.*



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

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ISO Certified Firm

AFP-1-832A 05/26