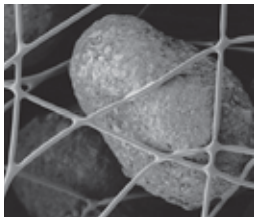
THE WORLD LEADER IN CLEAN AIR SOLUTIONS

VariSorb® XL15
(High Efficiency)

PARTICULATE AND GAS-PHASE FILTERS

- A complete solution to Indoor Air Quality (IAQ) by providing high level filtration of both odors and particulates
- Directly replaces existing 12″ deep single header filters, adding odor control and/or upgrading particulate filtration without requiring new hardware
- Highest activity carbon for most odor/contaminant adsorption
- Energy-saving media pack design enables the addition of chemical filtration without added resistance
- Higher Dust Holding Capacity (DHC) and higher molecular contaminant efficiency than any similar dual purpose filter produced today
- Lighter weight than any competitive dual purpose filter, for additional savings on operating costs
- Completely incinerable, no metal components
- MERV 15 particulate efficiency

Typical Applications: Airports, hospitals, industrial plant offices and laboratories, microelectronic component assembly, office, retail, and commercial buildings



Fiber-to-fiber and fiber-to-particle bond.

Improve Indoor Air Quality and Odor Removal

Indoor Air Quality (IAQ) issues are unpredictable. They can appear suddenly and may be a one-time occurrence or an ongoing nuisance. No matter what the cause, when the air smells bad, it is unpleasant, distracting, and potentially unhealthy—and people associate unpleasant odors with dirty air. In many instances, making extensive changes to the air handling system to eliminate the problem is not easy, timely, or cost effective.

VariSorb XL15 high efficiency filters are designed to improve IAQ through the effective removal of indoor and outdoor particulate and gaseous contaminants typically found in the urban environment. This includes Volatile Organic Compounds (VOCs), SOx, NOx, and Ozone. The VariSorb XL15 filter is suitable for retrofit into existing HVAC systems, for specification in new construction, or for direct replacement of 12″-deep, single header filters.

Construction

VariSorb XL15 filters consist of filter elements assembled in a V-bank configuration in High Impact Polystyrene (HIPS) cell sides. The header and cell sides provide a sturdy construction that resists damage during shipping, handling, and operation. The VariSorb XL15 filter is fully incinerable.

Media

The VariSorb XL15 filter features a pleated media comprised of very high activity, virgin carbon particles bonded into a three-dimensional network of bicomponent fibers that maximizes the exposure of the sorbent to gas. The very small carbon granules, unlike traditional granular bed chemical filters, provide a granular microstructure that ensures a much higher effective area per pound of media, resulting in a high spontaneity of adsorption. Combined with the dense packing of the microstructure, this creates a tortuous path for the contaminant, resulting in a high yield for the filter. Dusting is nearly eliminated, and pressure drop is minimized. The carbon media is laminated to a synthetic particulate filtration layer, which provides a high level of efficiency at minimal resistance.

Additional Features

VariSorb XL15 filters replace existing HVAC filters of the same type with no changes required for frames or latches. They are packed in polyethylene bags to preserve capacity and cleanliness.

AAF® INTERNATIONAL
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VariSorb® XL15 Filters

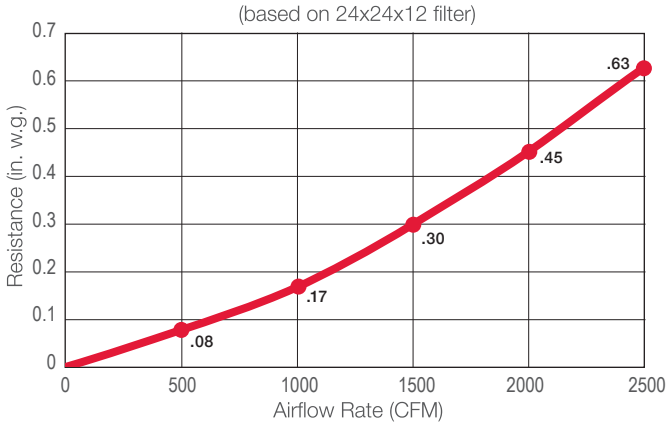
Product Information

Product Number	Nominal Size (in.)	Actual Size (in.)	*Initial Resistance (in. w.g.)		Final Resistance (in. w.g.)
			300 FPM	500 FPM	
VariSorb XL15 Filter (No Gasket)					
3100465-001	24 x 12 x 12	23⅜ x 11⅜ x 11½	.23	.45	1.5
3100465-002	24 x 20 x 12	23⅜ x 19⅜ x 11½	.23	.45	1.5
3100465-003	24 x 24 x 12	23⅜ x 23⅜ x 11½	.23	.45	1.5
VariSorb XL15 Filter (Gasket on air-leaving side)					
3100465-004	24 x 12 x 12	23⅜ x 11⅜ x 11½	.23	.45	1.5
3100465-005	24 x 20 x 12	23⅜ x 19⅜ x 11½	.23	.45	1.5
3100465-006	24 x 24 x 12	23⅜ x 23⅜ x 11½	.23	.45	1.5

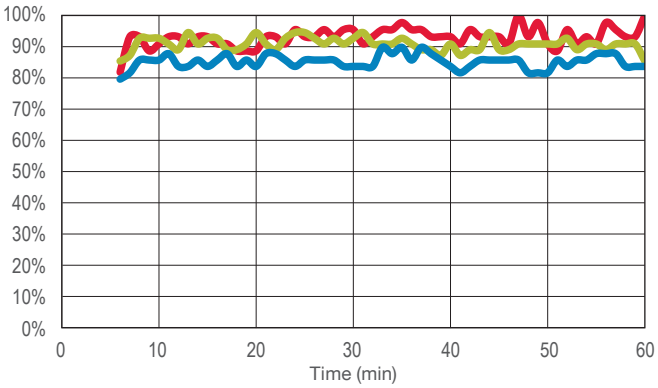
*All performance data is based on ASHRAE Standard 52.2.

Performance Data

Initial Resistance vs. Airflow

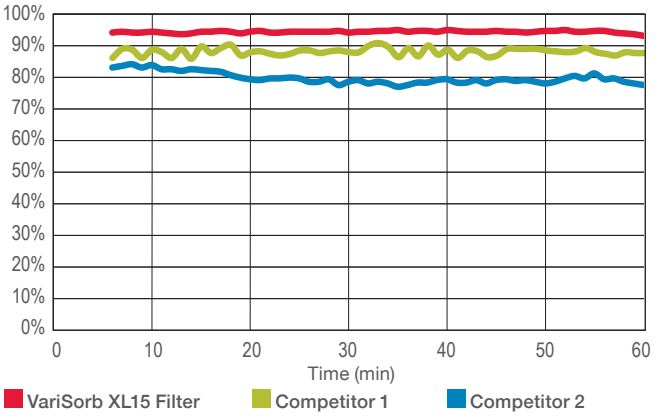


Sulfur Dioxide Efficiency



Performance data based on ASHRAE Standard 145.2.

Toluene Efficiency



Specifications

Maximum Operating Temperature: 130°F (54°C)

Maximum Relative Humidity: 95%

Cell Sides: The molded end panels are made of HIPS. The extruded vertical components are made of Acrylonitrile Butadiene Styrene (ABS).

Single Header Design

Media: Mini carbon granulate embedded between two non-woven synthetic layers.

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