



VariSorb™ XL SAAFCity

Pleated Compact Filter for IAQ

- **Specially designed for Urban VOC's**
- **Standard Dimensions**
- **Sturdy Construction**
- **Corrosion-free, non-metal construction**
- **Fully incinerable**
- **Integrated prefilter F7**



Construction

VariSorb XL SAAFCity delivery system consist of filter elements in high impact polystyrene (HIPS) cell sides for assembly in front or rear access standardized universal holding frames or side-access track systems to fit standard dimension filter sections in air handling units. VariSorb XL SAAFCity comes factory-ready for installation. No special tools are needed to install or replace the filter element. The individual VariSorb seals and holds in the frame with the latching system or in the track with its header and the track-specific gasket system. Side seals gaskets are supplied upon request.

Filter Elements

VariSorb XL SAAFCity filters are designed for combined particulate and gas-phase removal of medium and low concentrations of gas-phase contamination in urban fresh air and recirculation AHU systems. HIPS cell sides are fitted with pleated packs, comprising micro granulate media embedded between two non-woven synthetic

support layers. The air inlet side is provided with a layer of class F7 prefilter media. The pleat packs are arranged in a V-shape to utilize maximum amounts of media for the given face area. Each VariSorb is plastic bagged and carton packed.

Spontaneity and Yield

Unlike traditional granular bed chemical filters, the granular microstructure ensures a much higher effective active area per kg of media, resulting in a high spontaneity of reaction. Combined with the dense packing of the microstructure, this creates a tortuous path for the contaminant, resulting in a high yield for the filter. The construction greatly reduces pressure drop, eliminates by-pass and abrasion. The entire VariSorb can easily be disposed-off and is fully incinerable. Always follow the local, state or federal regulations for disposal.

Media

VariSorb XL SAAFCity is designed to remove gaseous contaminants from urban environment,

both indoor (outgassing from carpets, paint, solvent and detergents) and outdoor sourced (industry and transport). This includes VOC's, SOx, NOx, Ozone, For other commercial and industrial applications consults our Chemical Media brochure.

Application Guide

VariSorb XL SAAFCity uniquely combines particulate prefiltration and gaseous filtration in one filter element. Use of prefiltration is essential to avoid dust settling on the chemical media. This ensures optimized lifetime of the chemical filter system without increase of pressure drop.

Service

AAF International will be pleased to offer you a maintenance contract for your chemical filter system. This includes removal of the used elements, cleaning of the installation and installation of new elements. Disposal in accordance with regulations is part of our scope.

Better Air is Our Business®



VariSorb™ XL SAAFCity

Specifications

Maximum operating temperature	< 55 °C
Maximum relative humidity	< 95 %
Media	Mini-granulate, embedded in fibermat. Prefilter media to class F7
Cell Sides	High Impact Polystyrene (HIPS)
Disposal	Incineration

Technical Data

Type	Dimensions ¹⁾ mm (HxWxD)	Airflow (m ³ /h)		Initial Resistance at Nominal Airflow (Pa)
		Nominal	Maximum	
VSXL- 24.24.12 CB	592 x 592 x 292	3400	4250	90
VSXL- 20.24.12 CB	490 x 592 x 292	2900	3540	90
VSXL- 12.24.12 CB	287 x 592 x 292	1700	2125	90

Notes

1. Width and height are interchangeable; pleats can be either vertical or horizontal without affecting performance.
2. Recommended final resistance 450 Pa
3. Filter class F7 to EN779: 2002

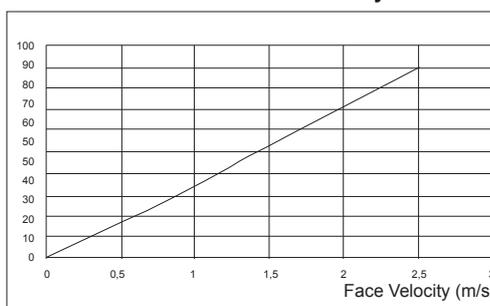
Media

Type	Application	Contaminants
SAAFCity	Urban environments	VOC, NOx, SOx, Ozone

Legend

Type	VSXL	VariSorb XL
Nominal size code (inch)	242412	Nominal sizes are 12,20,24 Always 12" deep
Header	- A	25 mm header 20 mm header
Media	CB	SAAFCity
EXAMPLE: VariSorb XL with SAAFCity size 24x24x12 VSXL-242412- CB		

Initial Resistance vs. Face Velocity



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

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