VariCel® V XL BioLog

COMPACT AIR FILTER FOR BIOAEROSOL FILTRATION

BIOSTATIC
Functionality

Features and Benefits

- **Biostatic functionality (Allergenes, Viruses, Bacteria, Fungi spores)**
- ISO 16890: ePM1
- Lightweight and easy to install
- Fully incinerable

Applications

- The VariCel V XL filter is an 8-panel high efficiency filter designed for use in commercial and industrial HVAC installations.
- Especially for the use in buildings with an increased risk of airborne infections, e. g. healthcare facilities.

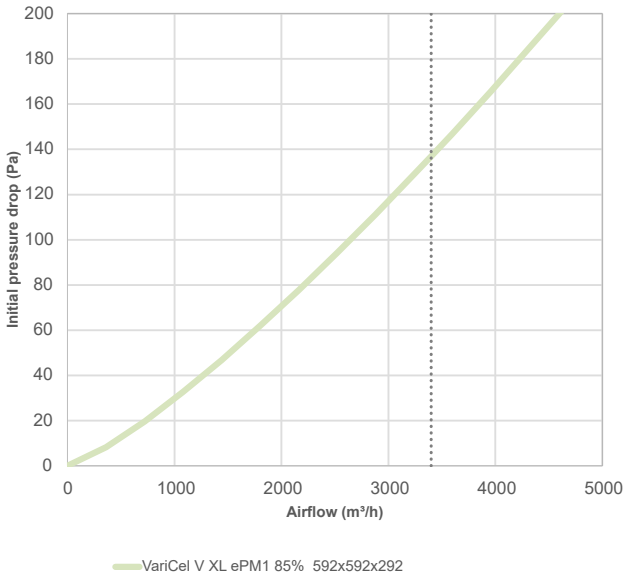
Configurations

Filter media	Glass fibre media with biostatic function
Pack design	Mini-pleat V-shape
Separator	Hot-melt
Gasket (optional)	Polyurethane foamed endless gasket
Header	HIPS. Depth 25 mm, optional 20 mm
Max. Operating Temperature	70 °C
Recom. final pressure drop	Subject to optimization of lifecycle costs, max 450 Pa
Recom. airflow range	75% - 125% (of nominal airflow)
Moisture resistance	100% relative humidity

Standard dimensions

Dimension	592 x 592	592 x 490	592 x 287
Depth Single Header	292		

Performance VariCel V XL



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Technical data

Filter name	Dimensions (mm) W x H x D	Filter area (m^2)	Number of V's	Initial dp (Pa)	Airflow m^3/h	Prev. rated EN779:2012	ISO 16890 Classification	Average values		
								ePM1 (%)	ePM2,5 (%)	ePM10 (%)
VariCel V XL ePM1 85%	592x592x292	14,6	4	137	3400	F9	ePM1 85%	86	90	97
	592x490x292	11,9	4	137	2800	F9	ePM1 85%	86	90	97
	592x287x292	6,4	4	137	1700	F9	ePM1 85%	86	90	97

Further dimensions are available on request. From January 1st 2018 filtration efficiency values are certified according to ISO 16890.

Air filters with biostatic capabilities for bioaerosol filtration

BIOSTATIC Functionality

Air filters with BioLog filter media technology are able to inhibit the growth and reproduction of microorganisms, that might be present in the outside and indoor air. For the physical mode of action the fibers of the filter media, which are free of any harmful chemicals, are equipped with a permanently functionalized biostatic function which results in irreversible binding of negatively charged microorganisms and particles like for example:

- Allergens
- Viruses
- Bacteria
- Fungi (spores).

BioLog filters can effectively reduce the risk of airborne infections, especially in healthcare facilities, offices, hotels, schools or other buildings where random groups of people congregate or work and airborne transmission of infectious agents can therefore become a serious problem. In addition to protecting the people who breathe the air inside the building by providing clean air, we also reduce the risk for maintenance personnel when replacing potentially contaminated filters.

Bringing clean air to life.®

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