

VariCel[®] M-Pak BioLog

COMPACT AIR FILTER FOR BIOAEROSOL FILTRATION

Features and Benefits

- Biostatic functionality (Allergenes, Viruses, Bacteria, Fungi spores)
- ISO 16890: ePM1
- Space saving design
- Lightweight
- Non-corrosive
- Fully incinerable

Applications

- Pre-filtration in central air handling systems and industrial installations under turbulent conditions
- The filter is also suitable for use in VAV or in systems typified by repeated fan shut down, turbulent airflow, side access or high relative humidity.
- Especially for the use in buildings with an increased risk of airborne infections, e. g. healthcare facilities.



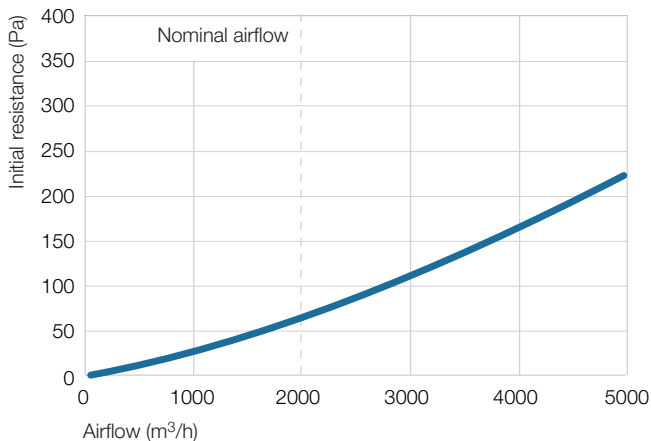
Configurations

Filter media	Glass fibre media with biostatic function
Separator	Hot-melt
Gasket	Optional
Header	HIPS. Depth 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	490 x 592	287 x 592
Depth Single Header	149		

Performance VariCel M-Pak, 149 mm depth



VariCel M-Pak - ePM1 55% 592x592x149

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Technical data

Filter name	Dimensions (mm) W x H x D	Filter area (m ²)	Initial dp (Pa) @ 2000 m ³ /h	Prev. rated EN779:2012	Eurovent 4/21:2018		ISO 16890 Classification	Average values		
					kWh	Energy Rating		ePM1 (%)	ePM2,5 (%)	ePM10 (%)
VariCel M-Pak ePM1 55%	592x592x149	9,8	67	F7	> 2000	E	ePM1 55%	59	70	89

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 adsorption 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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