

MVP EE CASSETTE FILTERS – WITH THE ENERGY EFFICIENCY BOOST



FOR ENERGETIC OPTIMAL OPERATION
OF VENTILATION SYSTEMS

FILTER TYPE	FILTER CLASS TO ISO 16890	FILTER CLASS TO EN 779:2012	ENERGY EFFICIENCY CLASS*
MVP EE 85	ISO ePM1 60%	F 7	A
MVP EE 95	ISO ePM1 70%	F 8	A
MVP EE 98	ISO ePM1 80%	F 9	A



Application

Viledon® MVP EE cassette filters are used in supply, exhaust and recirculated-air filtration for ventilation systems, such as those in

- food & beverage industry
- factory/production halls
- airports, libraries, museums
- laboratories, hospitals etc.

Media and characteristics

- Individually optimized micro-glass-fiber papers are used as filter media, which assure a **low pressure drop at high dust holding capacity**.
- The dimensionally stable media pleat packs are casted into the plastic frame providing a **sufficient functional safety against dust penetration during operation**.

- Viledon® MVP EE filters are constructed for simple and safe handling at installation.
- They are microbiologically inactiv and meet all the criteria of VDI Guideline 6022 “Hygiene Requirements for HVAC systems”.
- The entire filter element is free of metals, corrosion-free, fully incinerable and thereby disposal-friendly.

Features and pluses

- Viledon® MVP EE cassette filters achieve energy efficiency class A according to EUROVENT 4/21 and therefore ensuring **minimal consumption of electric energy**, without concessions in particle filtration efficiency.

- Thanks to this energy costs and CO₂ emissions can be reduced by up to 25% during operation of filter systems with frequency-controlled fans.
- Energy efficiency in combination with a high dust storage capacity qualifies Viledon MVP EE cassette filters for **ventilation systems with highest requirements on environmental friendly operation**.
- With the integrated clip-on-system filters of different filter classes and depths can be combined in a positive fit by simple plug-on. This allows an **additional prefilter or coalescer stage to be inserted without the need for an additional filter wall**.

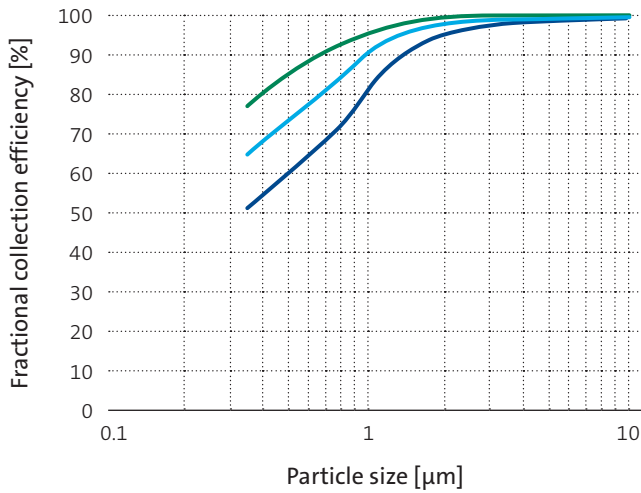


GEOMETRIES AVAILABLE		1/1	5/6	1/2
Nominal volume flow rate	m ³ /h	3,400	2,700	1,500
Filtering area	m ²	18	14.5	8.5
Front frame for mounting frame	mm	592 × 592 × 25 610 × 610	490 × 592 × 25 508 × 610	287 × 592 × 25 305 × 610
Overall depth	mm		292	
Weight, approx.	kg	5.5	4.5	3.2
Temperature-resistance	°C		70	
Moisture-resistance (rel. hum.)	%		100	

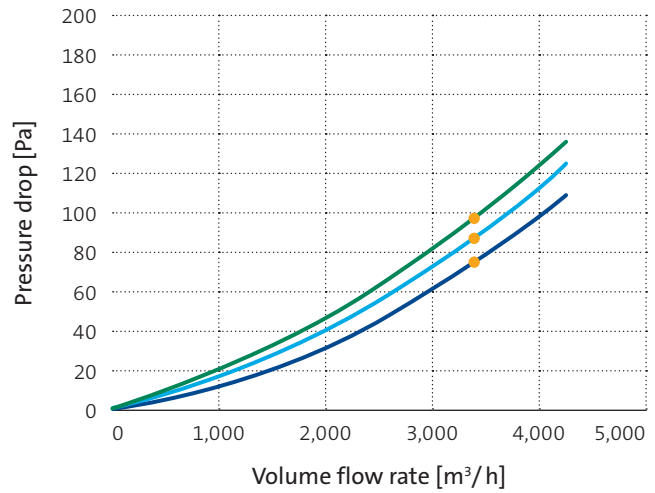
* As part of the EUROVENT Certification, rated at 3,400 m³/h

TECHNICAL FILTER TEST DATA TO EN 779 AND ISO 16890

Fractional collection efficiency curves



Initial pressure drop curves



— MVP EE 85 — MVP EE 95 — MVP EE 98 ● Nominal volume flow rate

KEY DATA		MVP EE 85	MVP EE 95	MVP EE 98
Nominal volume flow rate ●	m³/h		3,400	
Initial pressure drop	Pa	75	87	97
Class to ISO 16890		ISO ePM1 60%	ISO ePM1 70%	ISO ePM1 80%
Particulate matter efficiency				
ISO ePM1	%	60	74	84
ISO ePM2,5	%	70	81	89
ISO ePM10	%	89	94	96
Cut-off particle size	µm	6	3	2
Filter class to EN 779:2012		F7	F8	F9
Recom. final pressure drop*	Pa		450	

* For cost-efficiency or system-specific reasons it may be appropriate to change the filters before reaching the final pressure drop stated. It can also be exceeded in certain applications.

The information or figures given are subject to tolerances due to normal production fluctuations. Our explicit written confirmation is required in each case for the correctness of the information. Subject to technical alterations. You will find instructions on how to handle and dispose of loaded filters in our information on product safety and eco-compatibility.

FREUDENBERG FILTRATION TECHNOLOGIES

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