MVP E² CASSETTE FILTERS – WITH THE ENERGY-EFFICIENCY PLUS

viledon®

FOR ENERGETIC OPTIMAL OPERATION OF VENTILATION SYSTEMS

FILTERTYPE	FILTER CLASS TO ISO 16890	FILTER CLASS TO EN EN 779:2012	ENERGY-EFFICIENCYCLASS*
MVP E²+ 85	ISO ePM2,5 55%	F 7	A+
MVP E²+ 95	ISO ePM1 60%	F 8	A+
MVP E²+ 98	ISO ePM1 85%	F 9	A+

VDI 6022

EUROVENT CERTIFIED PERFORMANCE AIR FILTERS CLASS M5 – F9 www.eurovent-certification.com

Energy efficiency A+

The application

Viledon® MVP E² Plus 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.

The caracteristics

- Filter-related optimized micro-glass-fiber papers are used as filter media, which assures **low pressure drop at high dust holding capacity**.
- The filter frame consists of halogen-free plastics.
- The dimensionally stable media pleat packs are casted into the plastic frame providing **high burst strength, as well as excellent functional safety against dust penetration during operation**.
- MVP filters are constructed for simple and safe handling at installation.
- Viledon® MVP E² Plus 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 and halogenes, corrosion-free, fully incinerable and thereby disposal-friendly.

The special features

- Viledon® MVP E² Plus cassette filters achieve energy **efficiency class** A+ according to EUROVENT and therefore ensuring **minimal energy costs and minimal CO_2 emissions**.
- Thanks to a plus for energy efficiency – **up to 30% of energy costs can be saved** during operation of filter systems with frequency-controlled fans.
- The long filter lifetime guarantees extended changing intervals and therefore contributes to a **higher efficiency** of MVP E² Plus.
- 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 filter stage to be inserted without the need for an additional filter wall.**

GEOMETRIES AVAILABLE		1/1	5/6	1/2
Nominal volume flow rate	m³/h	3,400	2,700	1,500
Filter class		F 7 | F 8 | F 9	F 7 | F 8 | F 9	F 7 | F 8 | F 9
Filtering area	m²	18 | 18 | 21	14.5 | 14.5 | 17	8.5 | 8.5 | 10
Front frame for mounting frame	mm	593 × 593 × 25 610 × 610	491 × 593 × 25 508 × 610	288 × 593 × 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

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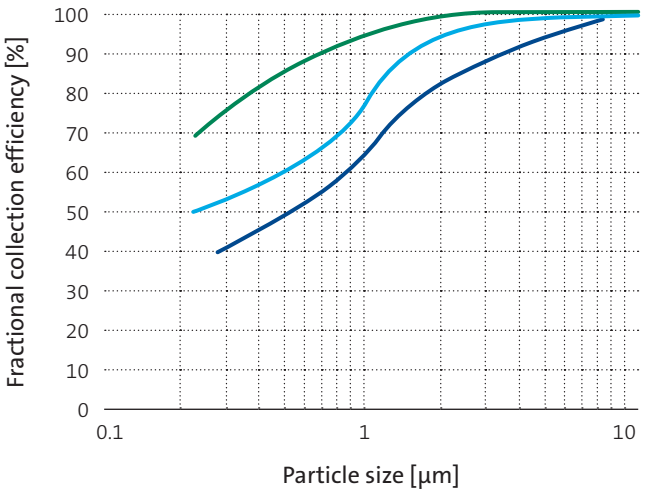
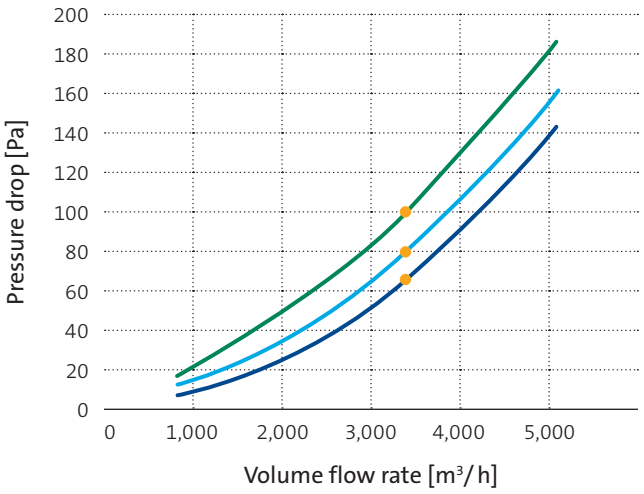
TECHNICAL FILTER TEST DATA TO EN 779 AND ISO 16890

Fractional collection efficiency curves



Initial pressure drop curves



MVP E²+ 85 — MVP E²+ 95 — MVP E²+ 98 — Nominal volume flow rate

KEY DATA		MVP E²+ 85	MVP E²+ 95	MVP E²+ 98
Nominal volume flow rate ●	m³/h		3,400	
Initial pressure drop	Pa	65	80	100
Class to ISO 16890		ISO ePM2,5 55%	ISO ePM1 60%	ISO ePM1 85%
Particulate matter efficiency				
ISO ePM1	%	47	64	86
ISO ePM2,5	%	56	73	90
ISO ePM10	%	80	90	97
Cut-off particle size	µm	6	8	3
Filter class to EN 779:2012		F7	F8	F9
Recom. final pressure drop	Pa		250	

The figures given are mean values subject to tolerances due to the normal production fluctuations. Our explicit written confirmation is always required for the correctness and applicability of the information involved in any particular case. 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.

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