

MVP CASSETTE FILTERS – QUALITY WITH AN OPTIMUM PRICE-PERFORMANCE RATIO

FOR OPERATION OF VENTILATION SYSTEMS

| FILTERTYPE | FILTER CLASS TO ISO 16890 | FILTER CLASS TO EN 779:2012 | ENERGY EFFICIENCY CLASS* |
|------------|---------------------------|-----------------------------|--------------------------|
| MVP 75 | ISO ePM10 75% | M 6 | – |
| MVP 85 | ISO ePM2,5 70% | F 7 | B |
| MVP 95 | ISO ePM1 70% | F 8 | A |
| MVP 98 | ISO ePM1 85% | F 9 | B |



The application

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

- office buildings
- factory / production halls
- airports, libraries, museums
- laboratories, hospitals
- old people's homes and care facilities, etc.

The characteristics

- Micro-glassfiber papers are used as filter media.
- The filter frame consists of halogen-free plastics.
- The dimensionally stable media pleat packs are casted into the plastic frame providing excellent functional safety against dust penetration during operation.

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

The special features

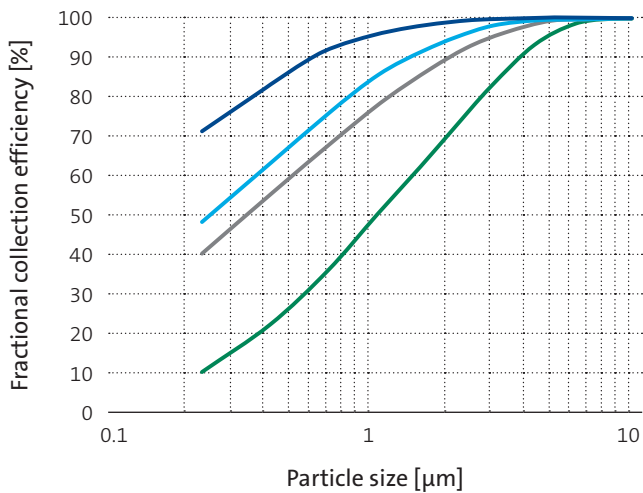
- MVP cassette filters excel in terms of low pressure drop and offer an optimum price-performance ratio.
- MVP 95 cassette filters reach energy efficiency class A according to EUROVENT ensuring reduced energy costs and reduced CO₂ emissions.

- The frame offers various possibilities for the installation of clips to hold prefilters.
- Patented Viledon® modular clip-on system with optionally installed pins for combination with other pre- or final filters for a 2-in-1 system solution.
- MVP cassette filters are available with six instead of eight pleat panels and with polyurethane-foamed gasket on the up- or downstream side.

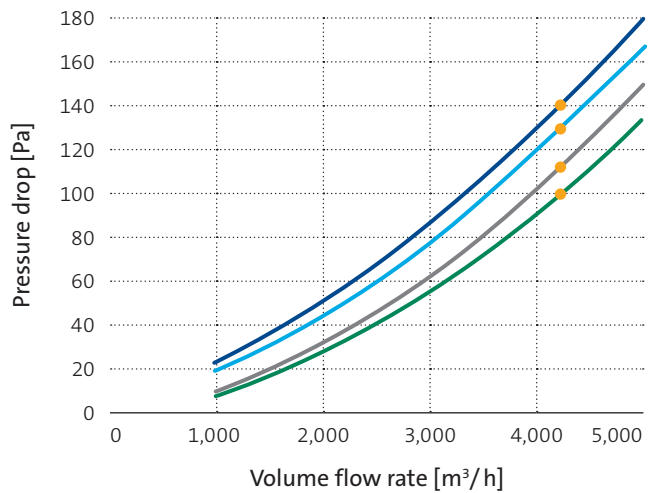
| GEOMETRIES AVAILABLE | | 1/1 | 5/6 | 1/2 |
|---------------------------------|-------------------|-----------------------------|-----------------------------|-----------------------------|
| Nominal volume flow rate | m ³ /h | 4,250 | 3,500 | 2,000 |
| Filtering area | m ² | 18 | 14.5 | 8.5 |
| Front 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 | | |

TECHNICAL FILTER TEST DATA TO EN 779 AND ISO 16890

Fractional collection efficiency curves



Initial pressure drop curves



— MVP 98 — MVP 95 — MVP 85 — MVP 75 ● Nominal volume flow rate

| KEY DATA | | MVP 75 | MVP 85 | MVP 95 | MVP 98 |
|-------------------------------|--------|---------------|----------------|--------------|--------------|
| Nominal volume flow rate | ● m³/h | 4,250 | | | |
| Initial pressure drop | Pa | 100 | 115 | 130 | 140 |
| Class to ISO 16890 | | ISO ePM10 75% | ISO ePM2,5 70% | ISO ePM1 70% | ISO ePM1 85% |
| Particulate matter efficiency | | | | | |
| ISO ePM1 | | 33 | 62 | 73 | 86 |
| ISO ePM2,5 | % | 46 | 72 | 80 | 91 |
| ISO ePM10 | | 79 | 90 | 93 | 97 |
| Cut-off particle size | µm | 7 | 5 | 4 | 2.5 |
| Filter class to EN 779:2012 | | M6 | F7 | F8 | F9 |
| Recom. final pressure drop** | Pa | 450 | | | |

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

**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 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.