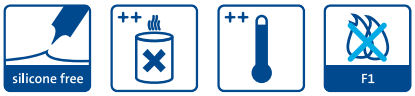
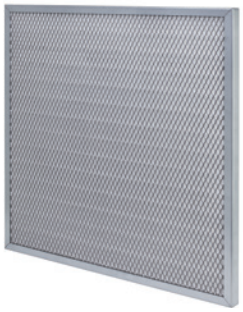
EFFICIENT AND RELIABLE AT HIGH TEMPERATURES

viledon®

HIPROTEC HIGH-TEMPERATURE FILTERS HT 10, OVERALL DEPTH 22 mm

FILTER TYPE	FILTER CLASS TO ISO 16890	FILTER CLASS TO EN 779:2012
HT 10-EG-0480×0480×022-U-L	ISO ePM10 65%	M 6





The application

The principal application for the Viledon® HT 10 high-temperature cassette filters with an over-all depth of 22 mm is air filtration for paint dryers in the automotive industry. The filters are mounted in the booth ceilings or in the side channels of the dryer ducts and meet particularly stringent requirements for air purity, process reliability and cost-efficiency. Besides the applications in surface treatment technology, the filters also meet the toughest of quality stipulations in general drying technology applications. Their areas of applications are, amongst others, in the pharmaceutical and the food industry.

Their characteristics and benefits

- The filters are available with **frames made of extruded aluminium profiles in overall depths of 22 mm**.
- All versions are fitted with **protection grids made of metal mesh on both sides**, thus ensuring **safe and simple handling**.
- The filter media used is mini-pleated microglassfiber paper that achieves a filter class ePM10 65% (M 6).
- Narrow strips of filter paper are used for spacing. A protective insert on both sides further enhances **production dependability in high-stress applications**.
- The filters can be installed either from the upstream or downstream side.
- The filters are fitted with a thermally ultra-stable, **glass round cord seal** as a standard feature. This is knitted and braided and thus particularly resistant to abrasion. In addition, the seal is thermally pretreated.
- They are thermally stable up to **260 °C**. Filters that are thermally staple up to 385 °C are also available upon request.
- HiProtec high-temperature cassette filters satisfy the stringent requirements of **Fire Class F 1** to DIN 53 438 and are thus **self-extinguishing**. They are also **highly resistant to solvent vapors and are silicone-free**.

The special features

- Following the classification for particulate matter PM 10, the high-temperature cassette filters HT 10 notably arrest particle sizes > 10 µm resp.
- Viledon® HiProtec filters HT 10 excel in terms of especially high dust holding capacity and very good mechanical sturdiness, even when exposed to inhomogeneous air loadings.
- Thanks to low filter resistance values, very long useful lifetimes can be achieved coupled with exceptionally cost-efficient operating.
- HiProtec filters are available in all dimensions commonly encountered on the market. Customized dimensions, filtering areas or frame materials can be obtained on request.

GEOMETRIES AVAILABLE		HT 10-EG-0480×0480×022-U-L
Nominal volume flow rate	m^3/h	1,000
Dimensions (B × H)	mm	480 × 480
Overall depth	mm	22
Weight, approx.	kg	2.0
Filtering area, approx.	m^2	1.5
Thermal stability	°C	260

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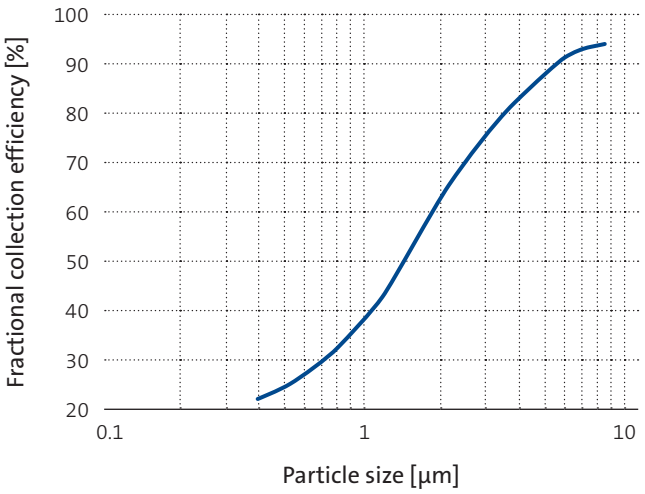
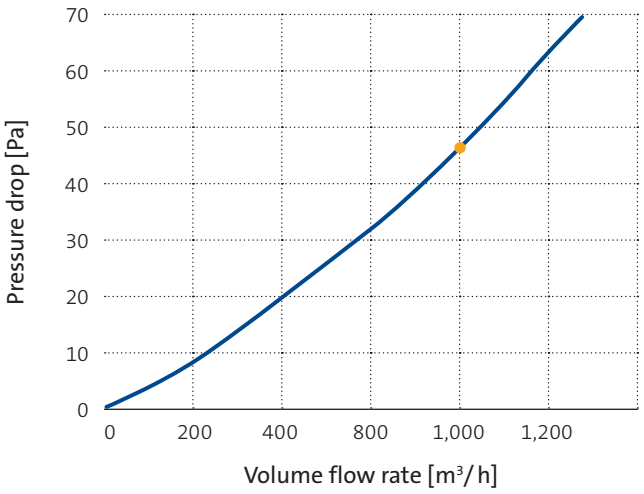
TECHNICAL FILTER TEST DATA TO EN 779 AND ISO 16890

Fractional collection efficiency curve



Initial pressure drop curve



— HT 10-EG-0480×0480×022-U-L

● Nominal volume flow rate

KEY DATA		HT 10 480 × 480
Nominal volume flow rate ●	m³/h	1,000
Initial pressure drop	Pa	50
Class to ISO 16890		ISO ePM10 65%
Particulate matter efficiency ISO ePM1 ISO ePM2,5 ISO ePM10	%	 26 36 68
Cut-off paricle size	µm	10
Filter class to EN 779:2012		M 6
Recom. final pressure drop*	Pa	300
Dust holding capacity approx. AC fine up to 300 Pa	g	120

* For cost-efficiency or system-specific reasons, it may be appropriate to change the filters before reaching the stated final pressure drop. Exceeding those limits may also be possible 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.

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