

EFFICIENT AND RELIABLE AT HIGH TEMPERATURES

viledon®

HIPROTEC HIGH-TEMPERATURE FILTERS HT 10 AND HT 2.5, OVERALL DEPTH 55 mm

FILTER TYPE	FILTER CLASS TO ISO 16890	FILTER CLASS TO EN 779:2012
HT 10-SA-0610×0610×055-U-L	ISO ePM10 70%	M 6
HT 2.5-SA-0610×0610×055-U-L	ISO ePM2,5 75%	F 8
HT 10-SA-0915×0457×055-U-L	ISO ePM10 70%	M 6
HT 2.5-SA-0915×0457×055-U-L	ISO ePM2,5 75%	F 8
HT 10-SA-0457×0915×055-U-L	ISO ePM10 70%	M 6
HT 2.5-SA-0457×0915×055-U-L	ISO ePM2,5 75%	F 8



The application

The principal application for the Viledon® HT10 and HT2.5 high-temperature cassette filters with an overall depth of 55 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 55 mm.
- All versions are fitted on both sides with protection grids made of galvanized steel, thus ensuring safe and simple handling.

- The filter media used are mini-pleated microglassfiber papers with different fiber finenesses for filter classes ISO ePM10 70% (M 6) and ISO ePM2,5 75% (F 8).
- 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 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. The filters can be installed either from the upstream or downstream side.
- They are thermally stable up to 260°C. Filters that are thermally stable up to 385°C are also available upon request.
- HiProtec high-temperature cassette filters satisfy the stringent requirements of Fire Class F1 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 PM₁₀, PM_{2,5} and PM₁ the high-temperature cassette filters HT 10 and HT 2.5 notably arrest particle sizes > 10 µm resp. > 2.5 µm.
- Viledon® HiProtec filters HT10 and HT2.5 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.

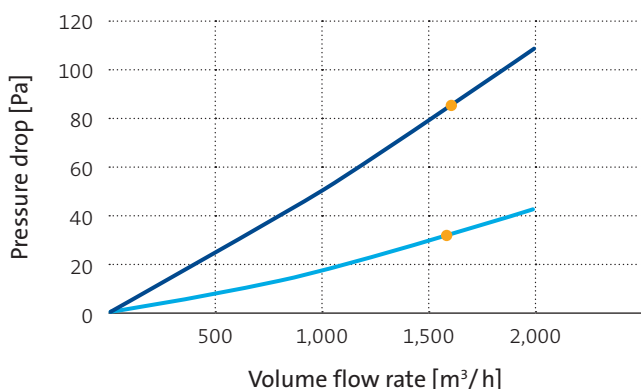
GEOMETRIES AVAILABLE		HT 10-SA-0610×0610×055-U-L HT 2.5-SA-0610×0610×055-U-L	HT 10-SA-0915×0457×055-U-L HT 2.5-SA-0915×0457×055-U-L	HT 10-SA-0457×0915×055-U-L HT 2.5-SA-0457×0915×055-U-L
Nominal volume flow rate	m³/h	1,600		1,800
Dimensions (B×H)	mm	610 × 610	915 × 457	457 × 915
Overall depth	mm		55	
Weight, approx.	kg	3.5		4
Filtering area, approx.	m²	5.9		6.2
Thermal stability	°C		260 (385*)	

* upon request

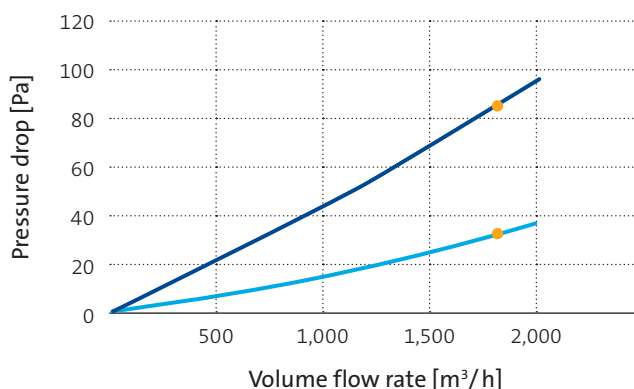
TECHNICAL FILTER TEST DATA TO EN 779 AND ISO 16890

Initial pressure drop curves

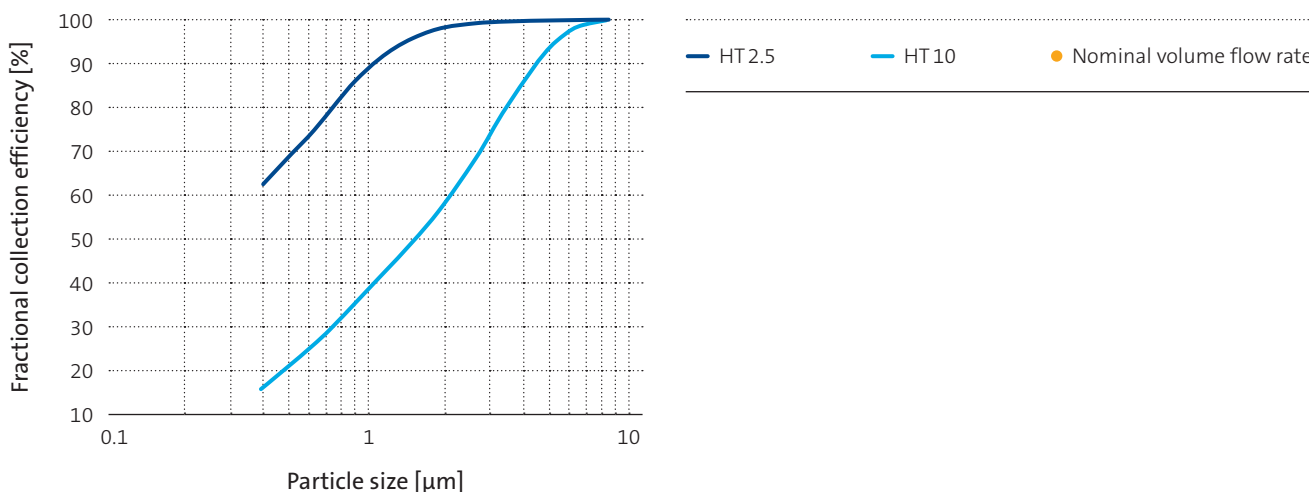
Dimensions 0610 x 0610 x 055 mm



Dimensions 0915 x 0457 x 055 mm



Fractional collection efficiency curves



KEY DATA		HT 10			HT 2.5		
		610 × 610	915 × 457	457 × 915	610 × 610	915 × 457	457 × 915
Nominal volume flow rate	m³/h	1,600	1,800		1,600	1,800	
Initial pressure drop	Pa	30			80		
Class to ISO 16890		ISO ePM10 70%			ISO ePM2,5 75%		
Particulate matter efficiency							
ISO ePM1		22			70		
ISO ePM2,5	%	33			78		
ISO ePM10		70			93		
Cut-off particle size	µm	8			4		
Filter class to EN 779:2012		M 6			F 8		
Recom. final pressure drop*	Pa	300					
Dust holding capacity approx. AC fine up to 300 Pa	g	300	335		270	305	

* 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.