

# EFFICIENT AND RELIABLE AT HIGH TEMPERATURES



## HIPROTEC HIGH-TEMPERATURE FILTERS HT 10 AND HT 2.5, OVERALL DEPTH 78 mm

FILTER TYPE	FILTER CLASS TO ISO 16890	FILTER CLASS TO EN 779:2012
HT 10-SA-0610×0610×078-U-L	ISO ePM10 70%	M6
HT 2.5-SA-0610×0610×078-U-L	ISO ePM2,5 70%	F8
HT 10-SA-0915×0457×078-U-L	ISO ePM10 75%	M6
HT2.5-SA-0915×0457×078-U-L	ISO ePM2,5 75%	F8



### The application

The principal application for the Viledon® HT 10 and HT 2.5 high-temperature cassette filters with an overall depth of 78 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 78 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% (M6) and ISO ePM2,5 75% (F8).
- 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 PM<sub>10</sub>, PM<sub>2,5</sub> and PM<sub>1</sub>, the high-temperature cassette filters HT 10 and HT 2.5 notably arrest particle sizes > 10 µm resp. > 2.5 µm.
- Viledon® HiProtec filters HT 10 and HT 2.5 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-0610×0610×078-U-L	HT 2.5-SA-0610×0610×078-U-L	HT 10-SA-0915×0457×078-U-L	HT 2.5-SA-0915×0457×078-U-L
Nominal volume flow rate	m <sup>3</sup> /h	1,700		1,900	
Dimensions (B×H)	mm	610×610		915×457	
Overall depth	mm	78			
Weight, approx.	kg	4		4.5	
Filtering area, approx.	m <sup>2</sup>	6.6		7.1	
Thermal stability	°C	260 (385*)			

\* upon request

### AIRWATEC sa

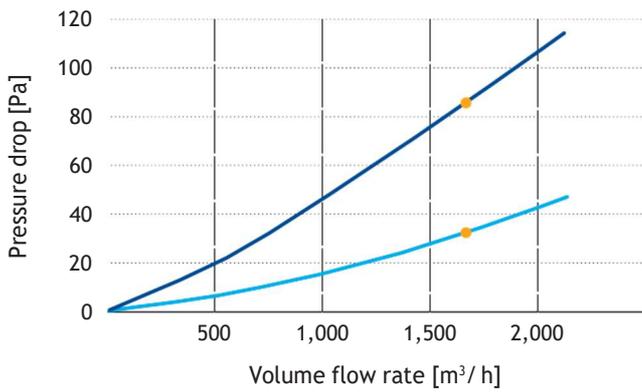
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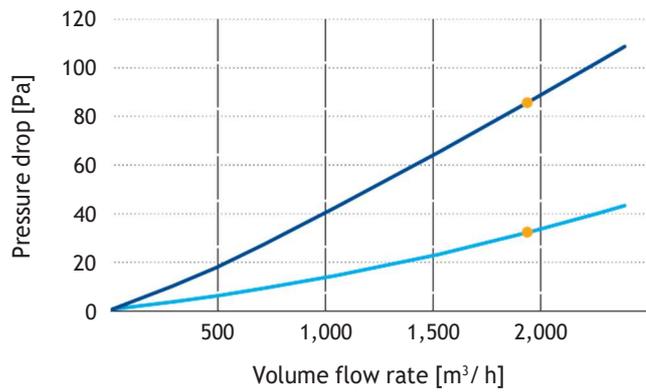
# TECHNICAL FILTER TEST DATA TO EN 779 AND ISO 16890

## Initial pressure drop curves

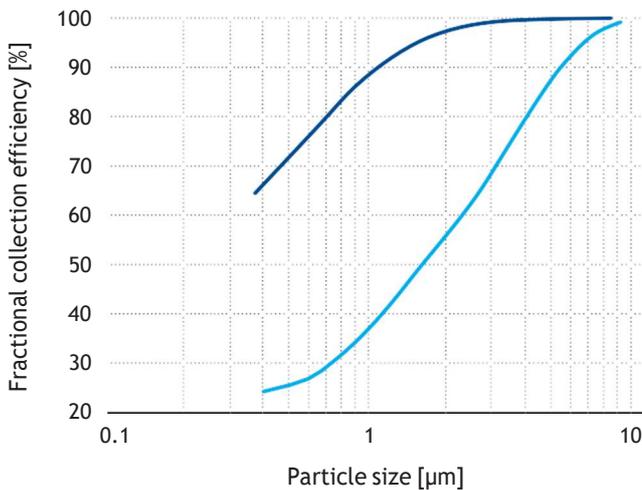
Dimensions 0610 × 0610 × 078 mm



Dimensions 0915 × 0457 × 078 mm



## Fractional collection efficiency curves



— HT 2.5    — HT 10    ● Nominal volume flow rate

KEY DATA		HT 10		HT 2.5	
		610 × 610	915 × 457	610 × 610	915 × 457
Nominal volume flow rate ●	m <sup>3</sup> /h	1,700	1,900	1,700	1,900
Initial pressure drop	Pa	35		85	
Class to ISO 16890		ISO ePM10 70%		ISO ePM2,5 75%	
Particulate matter efficiency					
ISO ePM1		27		75	
ISO ePM2,5	%	36		79	
ISO ePM10		70		93	
Cut-off particle size	µm	8		4	
Filter class to EN 779:2012		M6		F8	
Recom. final pressure drop*	Pa	300			
Dust holding capacity approx. AC fine up to 300 Pa	g	335	375	300	340

\* 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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