

# HIGH-TEMPERATURE FILTERS TYPE HITEMP



EFFICIENT AND RELIABLE  
AT HIGH TEMPERATURES

FILTER TYPE	FILTER CLASS TO ISO 16890	FILTER CLASS TO EN 779:2012
HT10	ISO ePM10 70%	M6
HT2.5	ISO ePM2,5 65%	F8



## The application

The principal application for the Viledon® HT10 and HT2.5 High-Temperature Cassette Filters with an overall depth of 292 mm is air filtration in recirculated-air systems used for paint-drying processes in the automotive industry. The filters 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 applications.

## The characteristics and benefits

- The filters are available in two frame versions made of galvanized steel sheet: the box type (Type B), and the version with a flanged-on, 20-mm-thick front frame (Type H).
- Both versions are fitted with protection grids made of galvanized steel mesh on both sides, thus ensuring safe and simple handling.

- The filter media used are pleated micro-glass-fiber papers with different fiber finenesses for Filter classes ISO ePM10 70% (M6) and ISO ePM2,5 65% (F8). The corrugated aluminium separators with crimped edges, in conjunction with double-layered filter paper at the pleats, provide maximized mechanical strength. This increases production dependability for the user.
- The filters are fitted with a thermally ultra-stable, abrasion-proof textile-glass round cord seal, either on the upstream or downstream side, as a standard feature. The box versions of these filters can be installed from both up- and down-stream side which reduces stock levels and filter variants.
- They are thermally stable up to at least 260 °C. Special types with frames made of aluminium or aluminised sheet metal have a temperature resistance of up to 385 °C.

- Viledon® 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.
- In addition to the standard versions, special variants with different dimensions or frame materials, higher thermal stability or special reinforcement, are available on request.

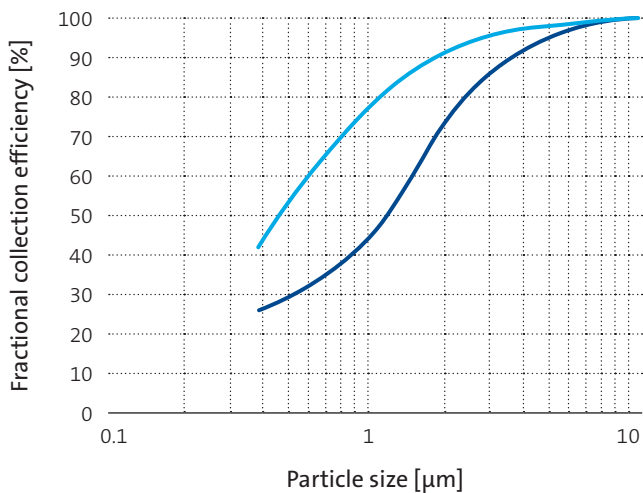
## The special features

- Viledon® High-Temperatur Cassette 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 characteristics.

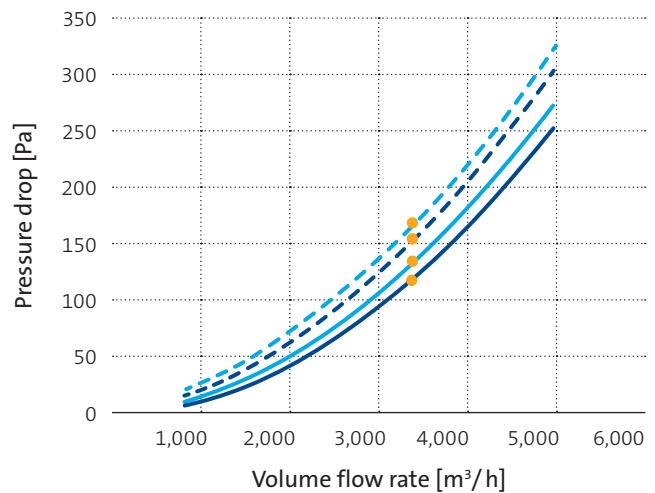
GEOMETRIES AVAILABLE		BOX FORM (BG) HT10   HT2.5 1/1	BOX FORM (BG) HT10   HT2.5 1/2	WITH FRONT FRAME (HG) HT10   HT2.5 1/1	WITH FRONT FRAME (HG) HT10   HT2.5 1/2
Nominal volume flow rate	m³/h	3,400	1,600	3,400	1,600
Dimensions	mm	610×610	305×610	592×592	287×592
Overall depth	mm	292			
Weight, approx.	kg	12	7	12	7
Filtering area, approx.	m²	15	7.5	12	6
Thermal stability	°C	260			

# TECHNICAL FILTER TEST DATA TO EN 779 AND ISO 16890

Fractional collection efficiency curves



Initial pressure drop curves



— HT 10 BG      — HT 2.5 BG      - - - HT 10 HG      - - - HT 2.5 HG      ● Nominal volume flow rate

KEY DATA		HT10 BG 1/1	HT10 HG 1/1	HT2.5 BG 1/1	HT2.5 HG 1/1
Nominal volume flow rate ●	m <sup>3</sup> /h	3,400			
Initial pressure drop	Pa	120	150	135	165
Class to ISO ISO 16890		ISO ePM10 70%		ISO ePM2,5 65%	
Particulate matter efficiency					
ISO ePM1	%	28		55	
ISO ePM2,5	%	40		65	
ISO ePM10	%	73		87	
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	520	420	520	420

FRAME VERSION	SIZE	POSITION OF SEAL	DESIGNATION / ORDERING CODE
Box variant	1/1	universal	HT 10-BG-610x610x292-U-L
	1/2	universal	HT 10-BG-305x610x292-U-L
Variant with front frame	1/1	front side	HT10-HG-592x592x292-1-L
		box side	HT10-HG-592x592x292-2-L
	1/2	front side	HT10-HG-287x592x292-1-L
		box side	HT10-HG-287x592x292-2-L
Box variant	1/1	universal	HT2.5-BG-610x610x292-U-L
	1/2	universal	HT2.5-BG-305x610x292-U-L
Variant with front frame	1/1	front side	HT 2.5-HG-592x592x292-1-L
		box side	HT 2.5-HG-592x592x292-2-L
	1/2	front side	HT2.5-HG-287x592x292-2-L
		box side	HT2.5-HG-287x592x292-1-L

\* 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 information or figures given are subject to tolerances due to normal production fluctuations. Our explicit written confirmation is required in each case for the correctness of the information. 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.