

HIGH-TEMPERATURE FILTERS

HT FILTER MATS, HT FILTER PACKS,
HITEMP CASSETTE FILTERS, HIPROTEC CASSETTE FILTERS



For air filtration at temperatures above 100°C up to a maximum of 385°C, the Viledon® high-temperature filters are the right choice. The silicone-free filter elements meet particularly stringent requirements for air purity, process dependability and cost-efficiency. The pleated filter media are made from special, thermally stable micro-glass-fiber papers.



HIGH TEMPERATURE FILTERS

HT FILTER MATS | FINE DUST



SPECIFICATIONS	
Filter medium	LH 243: Filter medium made from ultra-fine, homogeneously spun glass-fibers, clean air side with special final layer made of glass-fiber nonwoven; LH 244: Filter medium made from ultra-fine homogeneously spun glass-fibers, clean air side with special final layer made of synthetic nonwoven. LH620: Filter medium made from ultra-fine, homogeneously spun glass-fibers. Clean air side with special final layer made of glass-fiber nonwoven.
Recommended final pressure drop	250 Pa
Thermal stability LH 244	150 °C; LH 243 und LH 620: 200 °C
Moisture resistance	100% rel. hum.
Fire class	F1 acc. to DIN 53438

Application

- Filtration of recirculating air in drying booths or drying ovens in surface treatment systems.
- Filtration of air and gases at high temperatures.

Delivery notes

LH 243 and LH 244: Rolls are available up to a maximum of 10 × 1.5 m. LH 620 rolls are available up to a maximum of 2 × 1.5 m. Customized dimensions are available as roll goods or blanks on request.

ARTICLE	THICKNESS APPROX. [mm]	NOMINAL MEDIA VELOCITY [m / h × m ²]	INITIAL PRESSURE DROP [Pa]	FILTER CLASS ACC. TO EN 779:2012	PARTICULATE MATTER EFFICIENCY [%]			
					CLASS TO ISO 16890	ISO ePM1	ISO ePM2,5	ISO ePM10
LH 243	20	2,200	125	M5	ISO ePM10 65%	20	31	68
LH 244	20	2,200	125	M5	ISO ePM10 65%	20	31	68
LH 620	20	2,200	125	M5	ISO ePM10 65%	20	31	68

Subject to technical changes.



HIGH TEMPERATURE FILTERS

HT FILTER PACKS

SPECIFICATIONS	
Filter medium	LH 350 / LH 1000: Glass-fiber nonwoven framed in expanded aluminum metal, type sticker on the clean air side, clean air side with additional glass-fiber nonwoven; LH 1000 OV: Glass-fiber nonwoven framed in expanded aluminum metal, type sticker on the clean air side; LH 370: Progressively structured PES staple-fiber nonwoven with a scrim on the clean air side in expanded aluminum metal.
Recommended final pressure drop	250 Pa
Thermal stability	LH 350: 200 °C; LH 1000 und LH 1000 OV: 300 °C; LH 370: 120 °C
Moisture resistance	100% rel. hum.
Fire class	F1 acc. to DIN 53438



Application

HT filter packs are used for recirculated air filtration in drying booths and drying ovens for surface treatment systems, and for the filtration of air and gases at high temperatures.

Delivery notes

Standard dimensions: Approx. 480×480×14 mm.
Delivery unit: 30 pcs./carton.

ARTICLE	DIMENSIONS (W×L) [mm]	WEIGHT [kg]	NOMINAL VOLUME FLOW [m ³ /h]	DUST HOLDING CAPACITY (AC FINE /450 Pa) [g]	INITIAL PRESSURE DROP [Pa]	AVERAGE ARRESTANCE [%]
LH 350	480×480	0.25	350	40	75	99
LH 370	480×480	0.30	900	75	30	99
LH 1000	480×480	0.30	1,000	75	85	94
LH 1000/OV	480×480	0.30	1,000	100	60	92

Subject to technical changes.

HIGH TEMPERATURE FILTERS

HITEMP CASSETTE FILTERS | CONSTRUCTION DEPTH 292 MM | FINE DUST



SPECIFICATIONS	
Recommended final pressure drop	300 Pa
Thermal stability	at least 260 °C
Frame	25 mm top frame (type B) or box shape (type A)
Frame material	Steel sheeting, galvanized Aluminum extruded section
Seal	Textile glass round-cord seal
Fire class	F1 acc. to DIN 53438

Application

The principal application category for the Viledon® HT 60 and HT 90 HiTemp cassette filters with an construction depth of 292 mm is air filtration in recirculating air equipment of paint drying processes in the automotive industry. The filters meet particularly stringent requirements for air purity, process dependability and cost-efficiency.

Besides the applications in surface treatment technology, the filters also meet the toughest of quality stipulations for general drying technology.

Features and benefits

- The Viledon® HT 60 and HT 90 HiTemp cassette filters excel in terms of a particularly high dust holding capacity and very good mechanical strength, even when subjected to inhomogeneous air flows.

- Thanks to low filter resistances, very long operational lifetimes can be achieved, coupled with exceptionally cost-efficient operating characteristics.

Special variants

For confined space situations, the filters are available with a top frame (type B) featuring a reduced through-hole width of 547 mm (designation: -547).

For unfavorable flow conditions in the system, the filters can be supplied in a stronger version (designation: - reinforced).

For temperatures up to 350 °C, the filters are also available with a frame made of aluminized steel sheeting (designation: -D).

For systems with only a confined space at their disposal, the filter elements are also available in an construction depth of 150 mm.

Delivery notes

Customized dimensions, different frame materials, higher thermal stability or a specially reinforced version available on request.

EN 779:2012 ISO 16890

ARTICLE	ARTICLE NUMBER	SEAL POSITION	DIMENSIONS (L x W x D) [mm]	FILTER AREA [m²]	NOMINAL VOLUME FLOW [m³/h]	INITIAL PRESSURE DROP [Pa]	FILTER CLASS ACC. TO EN 779:2012	CLASS TO ISO 16890	PARTICULATE MATTER EFFICIENCY [%]		
									ISO ePM1	ISO ePM2,5	ISO ePM10
HT60-A-0610x0610x292-G-2-M-3-Q-2-F	53366788	Clean air side	610×610×292	12,0	3,400	90	M6	ISO ePM10 75%	30	42	75
HT60-A-0610x0610x292-G-1-M-3-Q-2-F	53414743	Raw air side	610×610×292	12,0	3,400	90	M6	ISO ePM10 75%	30	42	75
HT60-A-0305x0610x292-G-2-M-3-Q-2-F	53367242	Clean air side	305×610×292	6,0	1,700	100	M6	ISO ePM10 75%	30	42	75
HT60-A-0305x0610x292-G-2-M-3-Q-2F-reinfo	53426898	Clean air side	305×610×292	6,0	1,700	100	M6	ISO ePM10 75%	30	42	75
HT60-B-0592x0592x292-G-2-M-3-Q-2-F	53366698	Clean air side	592×592×292	9,0	3,400	130	M6	ISO ePM10 75%	30	42	75
HT60-B-0592x0592x292-G-1-M-3-Q-2-F	53366787	Raw air side	592×592×292	9,0	3,400	130	M6	ISO ePM10 75%	30	42	75
HT60-B-0592x0592x292-G-2-M-3-Q-2F-547 mm	53394225	Clean air side	592×592×292	9,0	3,400	130	M6	ISO ePM10 75%	30	42	75
HT60-B-0592x0592x292-G-2-M-3-Q-2F-547-Re	53414564	Clean air side	592×592×292	9,0	3,400	130	M6	ISO ePM10 75%	30	42	75
HT60-B-0490x0592x292-G-2-M-3-Q-2-F	53429703	Clean air side	490×592×292	9,0	2,800	130	M6	ISO ePM10 75%	30	42	75
HT60-B-0287x0592x292-G-2-M-3-Q-2-F	53366705	Clean air side	287×592×292	4,5	1,700	140	M6	ISO ePM10 75%	30	42	75
HT60-B-0287x0592x292-G-1-M-3-Q-2-F	53366706	Raw air side	287×592×292	4,5	1,700	140	M6	ISO ePM10 75%	30	42	75
HT60-B-0287x0592x292-G-2-M-3-Q-2F-547 mm	53394224	Clean air side	287×592×292	4,5	1,700	140	M6	ISO ePM10 75%	30	42	75
HT90-A-0610x0610x292-G-2-M-3-Q-2-F	53340443	Clean air side	610×610×292	12,0	3,400	120	F8	ISO ePM2,5 75%	69	77	92
HT90-A-0610x0610x292-G-1-M-3-Q-2-F	53433314	Raw air side	610×610×292	12,0	3,400	120	F8	ISO ePM2,5 75%	69	77	92
HT90-A-0305x0610x292-G-2-M-3-Q-2-F	53371208	Clean air side	305×610×292	6,0	1,700	130	F8	ISO ePM2,5 75%	69	77	92
HT90-B-0592x0592x292-G-2-M-3-Q-2-F	53366717	Clean air side	592×592×292	9,0	3,400	150	F8	ISO ePM2,5 75%	69	77	92
HT90-B-0592x0592x292-G-1-M-3-Q-2-F	53409792	Raw air side	592×592×292	9,0	3,400	150	F8	ISO ePM2,5 75%	69	77	92
HT90-B-0287x0592x292-G-2-M-3-Q-2-F	53366727	Raw air side	287×592×292	4,5	1,700	160	F8	ISO ePM2,5 75%	69	77	92
HT90-B-0287x0592x292-G-1-M-3-Q-2-F	53382668	Raw air side	287×592×292	4,5	1,700	160	F8	ISO ePM2,5 75%	69	77	92

Subject to technical changes.



HIGH TEMPERATURE FILTERS

HIPROTEC CASSETTE FILTERS | CONSTRUCTION DEPTH UP TO 78 MM | FINE DUST

SPECIFICATIONS	
Recommended final pressure drop	300 Pa
Thermal stability	260 °C 385 °C upon request (aluminum frame)
Frame	S: Extruded aluminum profile A: Steel sheeting, galvanized
Seal	Textile glass round-cord seal
Mounting	Installation on both raw and clean gas side possible
Fire class	F1 acc. to DIN 53438



Application

The principal application category for Viledon® HiProtec cassette filters HT 10.0 and HT 2.5 with construction depths of up to 78 mm is air filtration in paint driers for the automotive industry. The filters are mounted in the booth ceilings or the side channels of the dryer pipes, and meet particularly stringent requirements for air purity, process dependability and cost-efficiency.

Besides the applications in surface treatment technology, the filters also meet the toughest of quality stipulations for general drying technology. Type HT 2.5 A 480×480 mm (class M6) frequently serves as an upgrade for expanded-metal filter packs and cells.

Features and benefits

- The Viledon® HiProtec cassette filters HPT 10.0 and HPT 2.5 excel in terms of a high dust holding capacity and very good mechanical sturdiness even when subjected to inhomogeneous air flows.
- Thanks to low filter resistances, very long operational lifetimes can be achieved, coupled with exceptionally cost-efficient operating characteristics.

Delivery notes

Available in all dimensions commonly encountered on the market. Customized dimensions, filtering areas, frame materials or thermal stability up to 385 °C available on request.

EN 779:2012 ISO 16890

ARTICLE	ARTICLE NUMBER	DIMENSIONS (H × W × D) [mm]	FILTER AREA [m ²]	NOMINAL VOLUME FLOW [m ³ /h]	INITIAL PRESSURE DROP [Pa]	FILTER CLASS ACC. TO EN 779:2012	CLASS TO ISO 16890	PARTICULATE MATTER EFFICIENCY [%]		
								ISO ePM1	ISO ePM2,5	ISO ePM10
HT10-A-0480x0480x022-U	53527861	480×480×22	1.5	1,000	50	M6	ISO ePM10 70%	23	34	70
HT10-S-0480x0480x078-U	53527859	480×480×78	3.9	1,050	45	M6	ISO ePM10 75%	32	42	75
HT10-S-0490x0490x040-U	53527860	490×490×40	2.1	860	35	M6	ISO ePM10 75%	32	42	75
HT10-S-0610x0610x055-U	53527908	610×610×55	5.9	1,600	35	M6	ISO ePM10 75%	32	42	75
HT10-S-0610x0610x078-U	53527907	610×610×78	6.6	1,700	35	M6	ISO ePM10 75%	32	42	75
HT10-S-0805x0575x055-U	53527904	805×575×55	7.0	2,000	35	M6	ISO ePM10 75%	32	42	75
HT10-S-0915x0457x055-U	53527888	915×457×55	6.2	1,800	35	M6	ISO ePM10 75%	32	42	75
HT10-S-0915x0457x078-U	53527856	915×457×78	7.0	1,900	35	M6	ISO ePM10 75%	32	42	75
HT2.5-S-0305x0305x055-U	53527855	305×305×55	1.3	400	80	F8	ISO ePM2,5 80%	77	84	95
HT2.5-S-0305x0610x055-U	53527853	305×610×55	3.0	850	80	F8	ISO ePM2,5 80%	77	84	95
HT2.5-S-0305x0610x078-U	53528272	305×610×78	2.7	850	85	F8	ISO ePM2,5 80%	77	84	95
HT2.5-S-0490x0490x040-U	53527852	490×490×40	2.1	860	85	F8	ISO ePM2,5 80%	77	84	95
HT2.5-S-0610x0610x055-U	53527850	610×610×55	5.9	1,600	80	F8	ISO ePM2,5 80%	77	84	95
HT2.5-S-0610x0610x078-U	53527849	610×610×78	6.6	1,700	85	F8	ISO ePM2,5 80%	77	84	95
HT2.5-S-0915x0457x055-U	53527838	915×457×55	6.2	1,800	80	F8	ISO ePM2,5 80%	77	84	95
HT2.5-S-0915x0457x078-U	53527837	915×457×78	7.0	1,900	85	F8	ISO ePM2,5 80%	77	84	95

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