

CASSETTE FILTERS

MAXIPLEAT, NANOPLEAT,
EMAXX, MVP, MVPGT

In the category of cassette filters, Freudenberg Filtration Technologies offers a broad choice of products. All models are characterized by high performance capabilities: Viledon® cassette filters excel in terms of optimum media velocity with low pressure drop even at high volume flows. Plus a large dust holding capacity and exceptionally high stability of the entire filter construction for operational dependability in actual use.



CASSETTE FILTERS

MAXIPEAT | FINE DUST



SPECIFICATIONS	
Filter medium	Micro-glass-fiber paper
Recommended final pressure drop	650 Pa
Bursting pressure	> 6,000 Pa
Thermal stability	up to 70 °C
Moisture resistance	100% rel. hum.
Frame	Without (D), 25 mm front frame, halogen-free plastic (N)
Seal	Without (Z0), on request foamed-on PU seal (N1)
Protection grids	On both sides, halogen-free plastic

Application

Viledon® MaxiPleat cassette filters offer maximized operational dependability and cost-efficiency for intake, exhaust and recirculating air filtration in air-conditioning systems with stringent requirements for clean air quality, particularly in the case of critical local conditions, high volume flows, restricted space available, and when process dependability does not tolerate compromises, e.g.

- in intake air filtration of turbomachinery,
- in industrial processes (chemicals, pharmaceuticals, food and beverages, optics, electronics, surface treatment technology, etc.),
- in sophisticated air-conditioning technology (laboratories, museums, airports, office buildings, etc.),
- as “police filters” in dust removal systems.

Features and benefits

- The optimum V-shaped pleat geometry of the filter medium, as created by the thermal embossing process, enables the entire filtering area to be utilized, with uniform dust loading, and a homogeneous media velocity with a low average pressure drop.
- The high dust holding capacity of the MaxiPleat filters, in conjunction with a low pressure drop and superlative constructional stability, ensures cost-efficient and dependable operation over a very long operational lifetime.
- Casting the dimensionally stable pleat package in the torsion-resistant plastic frame assures exceptional sturdiness plus high security against dust breakthrough. Gripping lugs facilitate installation and removal, and the protection grid on both sides minimizes the risk of damage to the filter medium.
- Optionally installed pins can be used for combination with other pre- or final filters for a 2-in-1 system solution by using the patented Viledon® modular clip-on system.
- MaxiPleat filters meet in full the requirements laid down in VDI 6022.

Delivery notes

MaxiPleat cassette filters are also available in 140 mm construction depth as well as with and without PU seal. N = with 25 mm front frame; U = with 20.5 mm front frame; D = without front frame. An optional water barrier reduces the passage of intake water to the clean air side. Customized dimensions are available on request.

EN 779:2012 ISO 16890

EUROVENT 4/21

ARTICLE	ARTICLE NUMBER	DIMENSIONS (H x W x D) [mm]	FILTER AREA [m²]	NOMINAL VOLUME FLOW [m³/h]	DUST HOLDING CAPACITY (AC FINE / 800 Pa) [g]	INITIAL PRESSURE DROP [Pa]	FILTER CLASS ACC. TO EN 779:2012	CLASS TO ISO 16890	PARTICULATE MATTER EFFICIENCY [%]			ENERGY EFFICIENCY CLASS*
									ISO ePM1	ISO ePM2,5	ISO ePM10	
MX75-R-0592x0287x292x25-Z08N-A84	53360086	592 x 287 x 292	7.5	2,000	960	135	M6	ISO ePM10 85%	55	60	85	
MX75-R-0592x0490x292x25-Z08N-A84	53360087	592 x 490 x 292	14.5	3,500	1,850	135	M6	ISO ePM10 85%	55	60	85	
MX75-R-0592x0579x292x25-N18N-A84	53360088	592 x 579 x 292	17.5	4,150	2,240	135	M6	ISO ePM10 85%	55	60	85	
MX75-R-0592x0592x292x25-Z08D-A84	53392076	592 x 592 x 292	21.0	4,250	2,600	105	M6	ISO ePM10 85%	56	61	85	
MX75-M-0592x0592x292x25-Z08N-A84	53415630	592 x 592 x 292	18.0	4,250	2,300	135	M6	ISO ePM10 85%	55	60	85	
MX85-R-0287X0287X292X25-Z08N-B84	53400130	287 x 287 x 292	4.3	1,000	550	140	F7	ISO ePM2,5 65%	60	69	88	
MX85-R-0592x0287x292x25-Z08N-B84	53360039	592 x 287 x 292	7.5	2,000	790	140	F7	ISO ePM2,5 65%	60	69	88	
MX85-R-0592x0490x292x25-Z08N-B84	53360040	592 x 490 x 292	14.5	3,500	1,530	140	F7	ISO ePM2,5 65%	60	69	88	
MX85-R-0592X0579X292X25-N18N-B84	53360043	592 x 579 x 292	17.5	4,150	1,850	140	F7	ISO ePM2,5 65%	60	69	88	
MX85-R-0592X0592X292X25-Z08D-B84	53375079	592 x 592 x 292	21.0	4,250	2,200	110	F7	ISO ePM2,5 65%	60	70	89	
MX85-M-0592x0592x292x25-Z08N-B84	53415632	592 x 592 x 292	18.0	4,250	1,900	140	F7	ISO ePM2,5 65%	60	69	88	
MX95-R-0592x0287x292x25-Z08N-C84	53360024	592 x 287 x 292	7.5	2,000	710	150	F8	ISO ePM1 75%	76	82	94	B
MX95-R-0592x0490x292x25-Z08N-C84	53360025	592 x 490 x 292	14.5	3,500	1,370	150	F8	ISO ePM1 75%	76	82	94	B
MX95-R-0592x0579x292x25-N18N-C84	53358070	592 x 579 x 292	17.5	4,150	1,650	150	F8	ISO ePM1 75%	76	82	94	B
MX95-R-0592x0592x292x25-Z08D-C84	53370948	592 x 592 x 292	21.0	4,250	1,900	120	F8	ISO ePM1 75%	77	83	94	B
MX95-M-0592x0592x292x25-Z08N-C84	53415637	592 x 592 x 292	18.0	4,250	1,700	150	F8	ISO ePM1 75%	76	82	94	B
MX98-R-0592x0287x292x25-Z08N-D84	53360019	592 x 287 x 292	7.5	2,000	630	175	F9	ISO ePM1 85%	88	92	97	B
MX98-R-0592x0490x292x25-Z08N-D84	53360020	592 x 490 x 292	14.5	3,500	1,210	175	F9	ISO ePM1 85%	88	92	97	B
MX98-R-0592x0579x292x25-N18N-D84	53360021	592 x 579 x 292	17.5	4,150	1,460	175	F9	ISO ePM1 85%	88	92	97	B
MX98-R-0592x0592x292x25-Z08D-D84	53372259	592 x 592 x 292	21.0	4,250	1,700	135	F9	ISO ePM1 85%	89	92	97	B
MX98-M-0592x0592x292x25-Z08N-D84	53415639	592 x 592 x 292	18.0	4,250	1,500	175	F9	ISO ePM1 85%	88	92	97	B

Subject to technical changes.



CASSETTE FILTERS

MAXIPLAT | EPA

SPECIFICATIONS	
Filter medium	Micro-glass-fiber paper
Recommended final pressure drop	600 Pa
Bursting pressure	> 6,000 Pa
Thermal stability	up to 70 °C
Moisture resistance	100% rel. hum.
Frame	Without (D), 25 mm front frame, halogen-free plastic (N)
Seal	Without (Z0), on request foamed-on PU seal (N1)
Protection grids	On both sides, halogen-free plastic



Application

Viledon® MaxiPleat cassette filters offer maximized operational dependability and cost-efficiency for intake, exhaust and recirculating air filtration in air-conditioning systems with stringent requirements for clean air quality, particularly in the case of critical local conditions, high volume flows, restricted space available, and when process dependability does not admit of any compromises, e. g.

- in intake air filtration of turbomachinery,
- in industrial processes (chemicals, pharmaceuticals, food and beverages, optics, electronics, surface treatment technology, etc.),
- in sophisticated air-conditioning technology (laboratories, museums, airports, office buildings, etc.),
- as “police filters” in dust removal systems.

Features and benefits

- The optimum V-shaped pleat geometry of the filter medium, as created by the thermal embossing process, enables the entire filtering area to be utilized, with uniform dust loading over the filtering area and a homogeneous media velocity with a low average pressure drop.
- The high dust holding capacity of the MaxiPleat filters, in conjunction with a low pressure drop and superlative constructional stability, ensures cost-efficient and dependable operation over a very long operational lifetime.
- Casting the dimensionally stable pleat package in the torsion-resistant plastic frame assures exceptional sturdiness plus high security against dust breakthrough. Gripping lugs facilitate installation and removal, and the protection grids on both sides minimize the risk of damage to the filter medium.
- With the MaxiPleat modular filter system, MaxiPleat filters of different filter classes and construction depths can be positively combined simply by clipping them on, thus enabling another filter stage to be inserted without any structural modifications.
- MaxiPleat filters meet in full the requirements laid down in VDI 6022.

Delivery notes

MaxiPleat cassette filters are also available in 140 mm construction depth as well as with and without seal. N = with 25 mm front frame; U = with 20.5 mm front frame; D = without front frame. An optional water barrier reduces the passage of intake water to the clean air side. Customized dimensions are available on request.

Subject to technical changes.

ARTICLE	ARTICLE NUMBER	DIMENSIONS (H x W x D) [mm]	FILTER AREA [m ²]	NOMINAL VOLUME FLOW [m ³ /h]	DUST HOLDING CAPACITY (AC FINE/800 Pa) [g]	INITIAL PRESSURE DROP [Pa]	FACE VELOCITY [m/s]	EN1822:2012			ISO 16890			
								FILTER CLASS ACC. TO EN 1822:2009	FILTER CLASS ACC. TO ISO 29463	ARRESTANCE EFFICIENCY MPPS [%]	CLASS TO ISO 16890	ISO ePM1	ISO ePM2.5	ISO ePM10
MXH10-M-0592x0592x292x25-Z08N-F84	53438221	592 x 592 x 292	18.0	4250	630	235	3.2	E10		≥ 85	ISO ePM1 95%	95	97	99
MX100-R-0592x0287x292x25-Z08N-F84	53360015	592 x 287 x 292	7.5	1500	300	195	2.3	E11	ISO 15 E	≥ 95	ISO ePM1 >95%	97	99	>99
MX100-R-0592X0490X292X25-Z08N-F84	53360016	592 x 490 x 292	14.5	2700	505	195	2.4	E11	ISO 15 E	≥ 95	ISO ePM1 >95%	97	99	>99
MX100-R-0592X0579X292X25-N18N-F84	53360017	592 x 579 x 292	17.5	3350	600	195	2.5	E11	ISO 15 E	≥ 95	ISO ePM1 >95%	97	99	>99
MX100-R-0592X0592X292X25-Z08D-F84	53372031	592 x 592 x 292	21.0	3400	690	190	2.5	E11	ISO 15 E	≥ 95	ISO ePM1 >95%	97	99	>99
MX100-M-0592X0592X292X25-Z08N-F84	53415622	592 x 592 x 292	18.0	3400	610	195	2.5	E11	ISO 15 E	≥ 95	ISO ePM1 >95%	97	99	>99
MX120-R-0592X0287X292X25-Z08N-G60	53359975	592 x 287 x 292	11.0	1500	235	320	2.3	E12	ISO 25 E	≥ 99.5				
MX120-R-0592X0490X292X25-Z08N-G60	53359976	592 x 490 x 292	19.0	2700	400	320	2.4	E12	ISO 25 E	≥ 99.5				
MX120-R-0592X0579X292X25-N18N-G60	53359977	592 x 579 x 292	22.0	3300	475	320	2.5	E12	ISO 25 E	≥ 99.5				
MX120-M-0592X0592X292X25-Z08N-G60	53415627	592 x 592 x 292	23.0	3400	485	320	2.5	E12	ISO 25 E	≥ 99.5				

CASSETTE FILTERS

MAXIPLEAT | MODULAR FILTER SYSTEM | FINE DUST



SPECIFICATIONS	
Filter medium	Micro-glass-fiber paper
Recommended final pressure drop	650 Pa
Bursting pressure	> 6,000 Pa
Thermal stability	up to 70 °C
Moisture resistance	100% rel. hum.
Frame	Without (D), 25 mm front frame, halogen-free plastic (N)
Seal	Without (Z0), on request glued-on / foamed-on PU seal (N5)
Protection grids	On both sides, halogen-free plastic

Application

The Viledon® MaxiPleat modular filter system is used for intake, exhaust and recirculating air filtration in air-conditioning systems with stringent requirements for the clean air quality, particularly when the space available is restricted, e. g.

- in intake air filtration for turbomachinery,
- in industrial processes,
- in sophisticated air-conditioning technology.

With the MaxiPleat modular filter system, MaxiPleat filters of different filter classes and construction depths can be positively combined simply by clipping them on, thus enabling another filter stage to be inserted without any structural modifications.

Delivery notes

The MaxiPleat basic filters are supplied with connecting pins inserted (RB types). N = with 25 mm front frame; U = with 20.5 mm front frame; D = without front frame. The MaxiPleat modular prefilters (RC types) are available in 292 and 140 mm construction depths. The standard version does not include a front frame, but is delivered with a clean air side seal and connecting caps inserted. A retaining bracket, which precludes the possibility of the prefilter becoming detached under any operating conditions, is included in the delivery package of the 292 mm types (for vertical installation). In the case of overhead installation, an additional bracket is required, which can be ordered separately. An optional water barrier reduces the passage of intake water to the clean air side. Customized dimensions are available on request.

Features and benefits

- The optimum V-shaped pleat geometry of the filter medium, as created by the thermal embossing process, enables the entire filtering area to be utilized, with uniform dust loading over the filtering area and a homogeneous media velocity with a low pressure drop.
- The high dust holding capacity of the MaxiPleat filters, in conjunction with a low pressure drop and superlative constructional stability, ensures cost-efficient and dependable operation over a very long operational lifetime.
- To install the MaxiPleat modular filter system, the MaxiPleat basic filter fitted with the black connecting pins is inserted in the existing support system. The prefilter with the white connecting caps can now be simply clipped onto the installed basic filter. The connecting pins anchored in the basic filter can no longer be detached. The clipped-on prefilter can be removed again and replaced.
- Casting the dimensionally stable pleat package in the torsion-resistant plastic frame assures exceptional sturdiness plus high security against dust breakthrough. Gripping lugs facilitate installation and removal, and the protection grids on both sides minimize the risk of damage to the filter medium.
- MaxiPleat filters meet in full the requirements laid down in VDI 6022.

EN 779:2012 ISO 16890

ARTICLE	ARTICLE NUMBER	DIMENSIONS (H × W × D) [mm]	FILTER AREA [m²]	NOMINAL VOLUME FLOW [m³/h]	DUST HOLDING CAPACITY (AC FINE/800 Pa) [g]	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
MX75-RC-0554x0554x140x10-N58D-A45	53372039	554 × 554 × 140	12	3,400	> 1,500	135	M6	ISO ePM10 85%	56	61	85
MX75-RC-0554x0554x292x25-N58D-A84	53378239	554 × 554 × 292	18	3,400	> 2,300	95	M6	ISO ePM10 85%	56	61	85
MX85-RB-0592x0592x292x25-Z08N-B84	53403631	592 × 592 × 292	18	3,400	> 1,900	100	F7	ISO ePM2,5 65%	60	69	88
MX85-RC-0554x0554x140x10-N58D-B45	53371192	554 × 554 × 140	12	3,400	> 1,250	140	F7	ISO ePM2,5 65%	60	70	89
MX85-RC-0554x0554x292x25-N58D-B84	53375083	554 × 554 × 292	18	3,400	> 1,900	100	F7	ISO ePM2,5 65%	60	70	89
MX95-RB-0592x0592x292x25-Z08N-C84	53371193	592 × 592 × 292	18	3,400	> 1,700	105	F8	ISO ePM1 75%	76	82	94
MX95-RC-0554x0554x140x10-N58D-C45	53372040	554 × 554 × 140	12	3,400	> 1,150	150	F8	ISO ePM1 75%	77	83	94
MX95-RC-0554x0554x292x25-N58D-C84	3379914	554 × 554 × 292	18	3,400	> 1,700	105	F8	ISO ePM1 75%	77	83	94
MX98-RB-0592x0592x292x25-Z08N-D84	53372041	592 × 592 × 292	18	3,400	> 1,500	125	F9	ISO ePM1 85%	88	92	97
MX98-MB-0592x0592x292x25-Z08N-D84	53473592	592 × 592 × 292	18	3,400	> 1,500	125	F9	ISO ePM1 85%	88	92	97
MX98-MB-0592x0592x292x25-N18N-D84	53473593	592 × 592 × 292	18	3,400	> 1,500	125	F9	ISO ePM1 85%	88	92	97
MX98-RC-0554x0554x140x10-N58D-D45	53431249	554 × 554 × 140	12	3,400	> 1,000	175	F9	ISO ePM1 85%	89	92	97
MX98-RC-0554x0554x292x25-N58D-D84	53372421	554 × 554 × 292	18	3,400	> 1,500	125	F9	ISO ePM1 85%	89	92	97

Subject to technical changes.



CASSETTE FILTERS

MAXIPLAT | MODULAR FILTER SYSTEM | EPA

SPECIFICATIONS	
Filter medium	Micro-glass-fiber paper
Recommended final pressure drop	650 Pa
Bursting pressure	> 6,000 Pa
Thermal stability	up to 70 °C
Moisture resistance	100% rel. hum.
Frame	Without (D), 25 mm front frame, halogen-free plastic (N)
Seal	Without (Z0), on request glued-on / foamed-on PU seal (N5)
Protection grids	On both sides, halogen-free plastic



Application

The Viledon® MaxiPleat modular filter system is used for intake, exhaust and recirculated air filtration in air-conditioning systems with stringent requirements for the clean air quality, particularly when the space available is restricted, e.g.

- in intake air filtration for turbomachinery,
- in industrial processes,
- in sophisticated air-conditioning technology.

With the MaxiPleat modular filter system, MaxiPleat filters of different filter classes and construction depths can be positively combined simply by clipping them on, thus enabling another filter stage to be inserted without any structural modifications.

Features and benefits

- The optimum V-shaped pleat geometry of the filter medium, as created by the thermal embossing process, enables the entire filtering area to be utilized, with uniform dust loading over the filtering area and a homogeneous media velocity with a low pressure drop.
- The high dust holding capacity of the MaxiPleat filters, in conjunction with a low pressure drop and superlative constructional stability, ensures cost-efficient and dependable operation over a very long operational lifetime.
- To install the MaxiPleat modular filter system, the MaxiPleat basic filter fitted with the black connecting pins is inserted in the existing support system. The prefilter with the white connecting caps can now be simply clipped onto the installed basic filter. The connecting pins anchored in the basic filter can no longer be detached. The clipped-on prefilter can be removed again and replaced.
- Casting the dimensionally stable pleat package in the torsion-resistant plastic frame assures exceptional sturdiness plus high security against dust breakthrough. Gripping lugs facilitate installation and removal, and the protection grids on both sides minimize the risk of damage to the filter medium.
- MaxiPleat filters meet in full the requirements laid down in VDI 6022.

Delivery notes

The MaxiPleat basic filters are supplied with connecting pins inserted (RB types). N = with 25 mm front frame; U = with 20.5 mm front frame; D = without front frame. The MaxiPleat modular prefilters (RC types) are available in 292 and 140 mm construction depths. The standard version does not include a front frame, but is delivered with a clean air side seal and connecting caps inserted. An additional retaining bracket, which precludes the possibility of the prefilter becoming detached under any operating conditions, is included in the delivery package of the 292 mm types (for vertical installation). In the case of overhead installation, an additional bracket is required, which can be ordered separately. An optional water barrier reduces the passage of intake water to the clean air side. Customized dimensions are available on request.

EN 1822:2009 ISO 16890

ARTICLE	ARTICLE NUMBER	DIMENSIONS (H x W x D) [mm]	FILTER AREA [m²]	NOMINAL VOLUME FLOW [m³/h]	DUST HOLDING CAPACITY (AC FINE / 800 Pa) [g]	INITIAL PRESSURE DROP [Pa]	FILTER CLASS ACC. TO EN 1822:2009	FILTER CLASS ACC. TO ISO 29463	PARTICULATE MATTER EFFICIENCY [%]			
									CLASS TO ISO 16890	ISO ePM1	ISO ePM2.5	ISO ePM10
MXH10-RB-0592x0592x292x25-Z08N-E84	53440228	592 x 592 x 292	18	3,400	700	175	E10		ISO ePM1 95%	95	97	99
MXH10-MB-0592x0592x292x25-Z08N-E84	53470031	592 x 592 x 292	18	3,400	700	175	E10		ISO ePM1 95%	95	97	>99
MXH10-MB-0592x0592x292x25-N18N-E84	53473604	592 x 592 x 292	18	3,400	700	175	E10		ISO ePM1 95%	95	97	>99
MX100-RB-0592x0592x292x25-Z08N-F84	53381884	592 x 592 x 292	18	3,400	610	195	E11	ISO 15 E	ISO ePM1 >95%	97	99	>99
MX100-MB-0592x0592x292x25-Z08N-F84	53473606	592 x 592 x 292	18	3,400	610	195	E11	ISO 15 E	ISO ePM1 >95%	97	99	>99
MX100-MB-0592x0592x292x25-N18N-F84	53473607	592 x 592 x 292	18	3,400	610	195	E11	ISO 15 E	ISO ePM1 >95%	97	99	>99
MX100-MB-0592x0592x292x25-N18N-F60	53473605	592 x 592 x 292	23	3,400	750	210	E11	ISO 15 E	ISO ePM1 >95%	97	99	>99
MX120-RB-0592x0592x292x25-Z08N-G60	53372043	592 x 592 x 292	23	3,400	485	320	E12	ISO 25 E				
MX120-MB-0592x0592x292x25-Z08N-G60	53473608	592 x 592 x 292	23	3,400	485	320	E12	ISO 25 E				
MX120-MB-0592x0592x292x25-N18N-G60	53473609	592 x 592 x 292	23	3,400	485	320	E12	ISO 25 E				

Subject to technical changes.

CASSETTE FILTERS

NANOPLEAT | FINE DUST



SPECIFICATIONS	
Filter medium	HSN media technology
Recommended final pressure drop	450 Pa
Thermal stability	up to 70 °C
Moisture resistance	100% rel. hum.
Frame	Plastic

Application

Viledon® NanoPleat filters have been developed specifically for intake, exhaust and recirculated air filtration in HVAC systems posing stringent requirements for clean air quality and cost-efficiency. They ensure clean, efficiently conditioned air

- in office buildings, production halls, airports, libraries, museums, laboratories, hospitals, old people's homes and care facilities, etc.,
- in sensitive applications for the food and beverage industries, pharmaceuticals, chemicals, optics, electronics, and medical technology, etc.

Features and benefits

- Consistently high filtration efficiency under all operating conditions thanks to the unique HSN media.
- The low pressure drop and the high dust holding capacity provide ultra-efficient, energy-saving operating characteristics, with a slow increase in the pressure drop and resultant additional lifetime reserves. This produces a significant reduction in operating costs.
- Simplified handling at installation, since the HSN medium will not be irreversibly damaged even if it comes into contact with slight pressure.

- The pleated HSN filter media, cast in a tough plastic frame in a leakproof configuration, are exceptionally sturdy and water-repellent. Even when exposed to high levels of dampness and moisture, the filter medium will not be saturated; in fact the water droplets will simply roll off the material's surface. The pressure drop remains almost unchanged even under these circumstances, thus providing maximized operational reliability.
- Viledon® NanoPleat filters are highly resistant to chemicals, microbologically inert and meet all hygiene requirements for HVAC systems to EN 13779 and the German VDI Guideline 6022. Their microbial safety has been confirmed by the Institute for Air Hygiene in Berlin.
- The sturdy construction ensures optimum performance even under turbulent flow conditions or during load changes. This means that the risk of particle or fiber shedding is practically eliminated.
- The filter elements are free of metals and halogens, corrosion-proof and also fully incinerable and thus disposal-friendly.

EN 779:2012 ISO 16890

EUROVENT 4/21

ARTICLE	DIMENSIONS (W x L x D) [mm]	NOMINAL VOLUME FLOW [m³/h]	INITIAL PRESSURE DROP [Pa]	FILTER CLASS ACC. TO EN 779:2012	CLASS TO ISO 16890	PARTICULATE MATTER EFFICIENCY [%]			ENERGY EFFICIENCY CLASS*
						ISO ePM1	ISO ePM2,5	ISO ePM10	
MV 75 HSN 1/2 V08X25-Z00N-A33	287 x 592 x 292	1,500	85	M6	ISO ePM10 75%	33	46	79	
MV 75 HSN 4/6 V08X25-Z00N-A33	402 x 592 x 292	2,100	85	M6	ISO ePM10 75%	33	46	79	
MV 75 HSN 5/6 V08X25-Z00N-A33	490 x 592 x 292	2,700	85	M6	ISO ePM10 75%	33	46	79	
MV 75 HSN 1/1 V08X25-Z00N-A33	592 x 592 x 292	3,400	85	M6	ISO ePM10 75%	33	46	79	
MV 85 HSN 1/2 V08X25-Z00N-B33	287 x 592 x 292	1,500	100	F7	ISO ePM2,5 70%	63	72	90	
MV 85 HSN 4/6 V08X25-Z00N-B33	402 x 592 x 292	2,100	100	F7	ISO ePM2,5 70%	63	72	90	
MV 85 HSN 5/6 V08X25-Z00N-B33	490 x 592 x 292	2,700	100	F7	ISO ePM2,5 70%	63	72	90	
MV 85 HSN 1/1 V08X25-Z00N-B33	592 x 592 x 292	3,400	100	F7	ISO ePM2,5 70%	63	72	90	
MV 95 HSN 1/2 V08X25-Z00N-C33	287 x 592 x 292	1,500	110	F8	ISO ePM1 75%	79	84	94	
MV 95 HSN 4/6 V08X25-Z00N-C33	402 x 592 x 292	2,100	110	F8	ISO ePM1 75%	79	84	94	
MV 95 HSN 5/6 V08X25-Z00N-C33	490 x 592 x 292	2,700	110	F8	ISO ePM1 75%	79	84	94	
MV 95 HSN 1/1 V08X25-Z00N-C33	592 x 592 x 292	3,400	110	F8	ISO ePM1 75%	79	84	94	
MV 98 HSN 1/2 V08X25-Z00N-D33	287 x 592 x 292	1,500	120	F9	ISO ePM1 80%	83	87	95	B
MV 98 HSN 4/6 V08X25-Z00N-D33	402 x 592 x 292	2,100	120	F9	ISO ePM1 80%	83	87	95	B
MV 98 HSN 5/6 V08X25-Z00N-D33	490 x 592 x 292	2,700	120	F9	ISO ePM1 80%	83	87	95	B
MV 98 HSN 1/1 V08X25-Z00N-D33	592 x 592 x 292	3,400	120	F9	ISO ePM1 80%	83	87	95	B

Subject to technical changes.



CASSETTE FILTERS

EMAXX | FINE DUST

SPECIFICATIONS	
Filter medium	Micro-glass-fiber paper
Thermal stability	up to 70 °C
Moisture resistance	100% rel. hum.
Frame	Halogen-free plastic



Application

Viledon® eMaxx filters are a new generation of powerful, efficient, economic and durable cassette filters offering operational reliability and cost efficiency for supply of air filtration systems which have stringent requirements for clean air quality. They are used in, e.g.

- intake air filtration for gas turbines and compressors,
- ventilation systems.

Features and benefits

- High-strength synthetic media and micro-glass-fiber papers with hydrophobic coating are used.
- The entire filter element is non-corroding, and fully incinerable, since it contains no metal parts. Frame and protection grids consist of halogen-free plastic.
- The 4-sided, leakproof casting of the dimensionally stable media pleat pack provides high burst strength as well as excellent security against dust penetration during operation.
- During usage the vertical arrangement of pleats allows drainage of water to the bottom. This results in less water saturation of the filter and reduced pressure drop increase.
- Combination of excellent dust holding capacity at low pressure drop.
- eMaxx cassette filters are supplied as standard with a foamed in place gasket and a protection grid fitted to minimize risk of damage during handling and operation.
- The filters can be used as part of the unique Viledon® modular clip-on system. They can be combined with hydroMaxx coalescer filters or with MVPGT respectively MaxiPleat cassette filters in one filter stage by simple clip-on.

EN 779:2012 ISO 16890

ARTICLE	ARTICLE NUMBER	SEAL POSITION	DIMENSIONS (W×L×D) [mm]	FILTER AREA [m ²]	NOMINAL VOLUME FLOW [m ³ /h]	DUST HOLDING CAPACITY (AC FINE / 650 Pa) [g]	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
EMAXX 98 1/1 N19N	53541784	Clean air side	592×592×422	30	4,250	1,200	135	F9	ISO ePM1 80%	83	87	95
EMAXX 98 1/1 Z09N	53541785	Without seal	592×592×422	30	4,250	1,200	135	F9	ISO ePM1 80%	83	87	95

Subject to technical changes.

CASSETTE FILTERS

EMAXX | EPA



SPECIFICATIONS	
Filter medium	Micro-glass-fiber paper
Thermal stability	up to 70 °C
Moisture resistance	100% rel. hum.
Frame	Halogen-free plastic

Application

Viledon® eMaxx filters are a new generation of powerful, efficient, economic and durable cassette filters offering operational reliability and cost efficiency for supply of air filtration systems which have stringent requirements for clean air quality. They are used in, e.g.

- intake air filtration for gas turbines and compressors,
- ventilation systems.

Features and benefits

- High-strength synthetic media and micro-glass-fiber papers with hydrophobic coating are used.
- The entire filter element is non-corroding, and fully incinerable, since it contains no metal parts. Frame and protection grids consist of halogen-free plastic.
- The 4-sided, leakproof casting of the dimensionally stable media pleat pack provides high burst strength as well as excellent security against dust penetration during operation.
- During usage the vertical arrangement of pleats allows drainage of water to the bottom. This results in less water saturation of the filter and reduced pressure drop increase.
- Combination of excellent dust holding capacity at low pressure drop.
- eMaxx cassette filters are supplied as standard with a foamed in place gasket and a protection grid fitted to minimize risk of damage during handling and operation.
- The filters can be used as part of the unique Viledon® modular clip-on system. They can be combined with hydroMaxx coalescer filters or with MVPGT respectively MaxiPleat cassette filters in one filter stage by simple clip-on.

ARTICLE	ARTICLE NUMBER	DIMENSIONS (W x L x D) [mm]	FILTER AREA [m ²]	NOMINAL VOLUME FLOW [m ³ /h]	DUST HOLDING CAPACITY (AC FINE / 650 Pa) [g]	INITIAL PRESSURE DROP [Pa]	EN 1822:2009			ISO 16890			
							FILTER CLASS ACC. TO EN 1822:2009	FILTER CLASS ACC. TO ISO 29463	ARRESTANCE EFFICIENCY MPPS [%]	CLASS TO ISO 16890	PARTICULATE MATTER EFFICIENCY [%]		
										ISO ePM1	ISO ePM2.5	ISO ePM10	
EMAXX E10 1/1 N19N	53541786	592 x 592 x 422	30	4,250		170	E10		≥ 85	ISO ePM1 >95%	97	98	99
EMAXX E11 1/1 N19N	53541787	592 x 592 x 422	30	4,250		235	E11	ISO 15 E	≥ 95	ISO ePM1 >95%	98	99	>99

Subject to technical changes.



CASSETTE FILTERS

MVP | FINE DUST

SPECIFICATIONS	
Recommended final pressure drop	450 Pa
Thermal stability	70 °C
Moisture resistance	100% rel. hum.
Frame	Top frame 25 mm, halogen-free plastic



Application

Viledon® MVP cassette filters are used for intake, exhaust and recirculating air filtration in air-conditioning systems, e. g.

- office buildings,
- factory / production halls,
- airports,
- libraries,
- museums,
- laboratories,
- hospitals,
- old people's and nursing homes, etc.

Features and benefits

- MVP cassette filters excel in terms of a high dust holding capacity and low pressure drop values.
- Casting the dimensionally stable pleat package in the plastic frame assures a high degree of security against dust breakthrough over the entire operational lifetime.
- Recessed vertical rails allow full usage of a directly attached prefilter panel resulting in longer lifetimes and lower pressure drops.
- A lug between the two inner V's allows easy handling.
- The frame offers various possibilities for the installation of clips to hold prefilters.
- Optionally installed pins can be used for combination with other pre- or final filters for a 2-in-1 system solution by using the patented Viledon® modular clip-on system.

CASSETTE FILTERS

MVP | FINE DUST



SPECIFICATIONS	
Recommended final pressure drop	450 Pa
Thermal stability	70 °C
Moisture resistance	100% rel. hum.
Frame	Top frame 25 mm, halogen-free plastic

Delivery notes

MVP cassette filters are available on request in filter classes E10 to E12, and with a foamed on gasket on the clean air side. Also available with 6 instead of 8 panels.

ARTICLE	ARTICLE NUMBER	DIMENSIONS (W x L x D) [mm]	FILTER AREA [m²]	NOMINAL VOLUME FLOW [m³/h]	INITIAL PRESSURE DROP [Pa]
MVP 75 1/2 V08x25-Z00N-A33	53538455	287 x 592 x 292	8.5	2,000	100
MVP 75 4/6 V08x25-Z00N-A33	53538456	402 x 592 x 292	11.8	2,800	100
MVP 75 5/6 V08x25-Z00N-A33	53538457	490 x 592 x 292	14.5	3,500	100
MVP 75 1/1 V08x25-Z00N-A33	53538458	592 x 592 x 292	18.0	4,250	100
MVP 85 1/2 V08x25-Z00N-B33	53538464	287 x 592 x 292	8.5	2,000	115
MVP 85 4/6 V08x25-Z00N-B33	53538465	402 x 592 x 292	11.8	2,800	115
MVP 85 5/6 V08x25-Z00N-B33	53538466	490 x 592 x 292	14.5	3,500	115
MVP 85 1/1 V08x25-Z00N-B33	53538467	592 x 592 x 292	18.0	4,250	115
MVP 95 1/2 V08x25-Z00N-C33	53538468	287 x 592 x 292	8.5	2,000	130
MVP 95 4/6 V08x25-Z00N-C33	53538469	402 x 592 x 292	11.8	2,800	130
MVP 95 5/6 V08x25-Z00N-C33	53538470	490 x 592 x 292	14.5	3,500	130
MVP 95 1/1 V08x25-Z00N-C33	53538471	592 x 592 x 292	18.0	4,250	130
MVP 98 1/2 V08x25-Z00N-D33	53538472	287 x 592 x 292	8.5	2,000	140
MVP 98 4/6 V08x25-Z00N-D33	53538473	402 x 592 x 292	11.8	2,800	140
MVP 98 5/6 V08x25-Z00N-D33	53538479	490 x 592 x 292	14.5	3,500	140
MVP 98 1/1 V08x25-Z00N-D33	53538480	592 x 592 x 292	18.0	4,250	140
MVP E+ 95 1/2 V08x25-Z00N-C27		287 x 592 x 292	8.5	1,500	80
MVP E+ 95 4/6 V08x25-Z00N-C27		402 x 592 x 292	11.8	2,100	80
MVP E+ 95 5/6 V08x25-Z00N-C27		490 x 592 x 292	14.5	2,700	80
MVP E+ 95 1/1 V08x25-Z00N-C27		592 x 592 x 292	18.0	3,400	80
MVP E+ 98 1/2 V08x25-Z00N-D27	53535685	287 x 592 x 292	9.9	1,500	95
MVP E+ 98 4/6 V08x25-Z00N-D27	53535686	402 x 592 x 292	13.5	2,100	95
MVP E+ 98 5/6 V08x25-Z00N-D27	53535687	490 x 592 x 292	17.0	2,700	95
MVP E+ 98 1/1 V08x25-Z00N-D27	53535688	592 x 592 x 292	21.0	3,400	95
MVP 75 1/2 V06x25-Z00N-A33		287 x 592 x 292	6.5	2,000	85
MVP 75 5/6 V06x25-Z00N-A33		490 x 592 x 292	11.5	3,500	85
MVP 75 1/1 V06x25-Z00N-A33		592 x 592 x 292	14	4,250	85
MVP 85 1/2 V06x25-Z00N-B33		287 x 592 x 292	6.5	2,000	115
MVP 85 5/6 V06x25-Z00N-B33		490 x 592 x 292	11.5	3,500	115
MVP 85 1/1 V06x25-Z00N-B33		592 x 592 x 292	14	4,250	115
MVP 95 1/2 V06x25-Z00N-C33		287 x 592 x 292	6.5	2,000	140
MVP 95 5/6 V06x25-Z00N-C33		490 x 592 x 292	11.5	3,500	140
MVP 95 1/1 V06x25-Z00N-C33		592 x 592 x 292	14	4,250	140
MVP 98 1/2 V06x25-Z00N-D33		287 x 592 x 292	6.5	2,000	160
MVP 98 5/6 V06x25-Z00N-D33		490 x 592 x 292	11.5	3,500	160
MVP 98 1/1 V06x25-Z00N-D33		592 x 592 x 292	14	4,250	160



CASSETTE FILTERS

MVP | FINE DUST

SPECIFICATIONS	
Recommended final pressure drop	450 Pa
Thermal stability	70 °C
Moisture resistance	100% rel. hum.
Frame	Top frame 25 mm, halogen-free plastic



EN 779:2012

ISO 16890

EUROVENT 4/21

	FILTER CLASS ACC. TO EN 779:2012	CLASS TO ISO 16890	PARTICULATE MATTER EFFICIENCY [%]			ENERGY EFFICIENCY CLASS*	ARTICLE
			ISO ePM1	ISO ePM2.5	ISO ePM10		
	M6	ISO ePM10 75%	33	46	79		MVP 75 1/2 V08x25-Z00N-A33
	M6	ISO ePM10 75%	33	46	79		MVP 75 4/6 V08x25-Z00N-A33
	M6	ISO ePM10 75%	33	46	79		MVP 75 5/6 V08x25-Z00N-A33
	M6	ISO ePM10 75%	33	46	79		MVP 75 1/1 V08x25-Z00N-A33
	F7	ISO ePM2,5 70%	62	72	90	B	MVP 85 1/2 V08x25-Z00N-B33
	F7	ISO ePM2,5 70%	62	72	90	B	MVP 85 4/6 V08x25-Z00N-B33
	F7	ISO ePM2,5 70%	62	72	90	B	MVP 85 5/6 V08x25-Z00N-B33
	F7	ISO ePM2,5 70%	62	72	90	B	MVP 85 1/1 V08x25-Z00N-B33
	F8	ISO ePM1 70%	73	80	93	A	MVP 95 1/2 V08x25-Z00N-C33
	F8	ISO ePM1 70%	73	80	93	A	MVP 95 4/6 V08x25-Z00N-C33
	F8	ISO ePM1 70%	73	80	93	A	MVP 95 5/6 V08x25-Z00N-C33
	F8	ISO ePM1 70%	73	80	93	A	MVP 95 1/1 V08x25-Z00N-C33
	F9	ISO ePM1 85%	86	91	97	B	MVP 98 1/2 V08x25-Z00N-D33
	F9	ISO ePM1 85%	86	91	97	B	MVP 98 4/6 V08x25-Z00N-D33
	F9	ISO ePM1 85%	86	91	97	B	MVP 98 5/6 V08x25-Z00N-D33
	F9	ISO ePM1 85%	86	91	97	B	MVP 98 1/1 V08x25-Z00N-D33
	F8	ISO ePM1 60%	64	73	90	A+	MVP E+ 95 1/2 V08x25-Z00N-C27
	F8	ISO ePM1 60%	64	73	90	A+	MVP E+ 95 4/6 V08x25-Z00N-C27
	F8	ISO ePM1 60%	64	73	90	A+	MVP E+ 95 5/6 V08x25-Z00N-C27
	F8	ISO ePM1 60%	64	73	90	A+	MVP E+ 95 1/1 V08x25-Z00N-C27
	F9	ISO ePM1 85%	86	90	97	A+	MVP E+ 98 1/2 V08x25-Z00N-D27
	F9	ISO ePM1 85%	86	90	97	A+	MVP E+ 98 4/6 V08x25-Z00N-D27
	F9	ISO ePM1 85%	86	90	97	A+	MVP E+ 98 5/6 V08x25-Z00N-D27
	F9	ISO ePM1 85%	86	90	97	A+	MVP E+ 98 1/1 V08x25-Z00N-D27
	M6	ISO ePM10 75%	32	45	77		MVP 75 1/2 V06x25-Z00N-A33
	M6	ISO ePM10 75%	32	45	77		MVP 75 5/6 V06x25-Z00N-A33
	M6	ISO ePM10 75%	32	45	77		MVP 75 1/1 V06x25-Z00N-A33
	F7	ISO ePM2,5 70%	61	71	89		MVP 85 1/2 V06x25-Z00N-B33
	F7	ISO ePM2,5 70%	61	71	89		MVP 85 5/6 V06x25-Z00N-B33
	F7	ISO ePM2,5 70%	61	71	89		MVP 85 1/1 V06x25-Z00N-B33
	F8	ISO ePM1 70%	72	79	92		MVP 95 1/2 V06x25-Z00N-C33
	F8	ISO ePM1 70%	72	79	92		MVP 95 5/6 V06x25-Z00N-C33
	F8	ISO ePM1 70%	72	79	92		MVP 95 1/1 V06x25-Z00N-C33
	F9	ISO ePM1 80%	82	85	93		MVP 98 1/2 V06x25-Z00N-D33
	F9	ISO ePM1 80%	82	85	93		MVP 98 5/6 V06x25-Z00N-D33
	F9	ISO ePM1 80%	82	85	93		MVP 98 1/1 V06x25-Z00N-D33

* rated at 3,400 m³/h (further information at www.eurovent-certification.com)

Subject to technical changes.

CASSETTE FILTERS

MVPGT | FINE DUST



SPECIFICATIONS	
Recommended final pressure drop	600 Pa
Bursting pressure	>4,000 Pa
Thermal stability	70 °C
Moisture resistance	100% rel. hum.
Frame	Halogen-free plastic
Seal	PU gasket, continuously foamed
Protection grids	Halogen-free plastic, on the clean air side

Application

Viledon® MVPGT cassette filters are used for intake air filtration of

- gas turbines in power generation and in the oil and gas industry,
- compressors and diesel and gas engines.

They are particularly well suited for peaking units located onshore with average dust concentrations in the ambient air.

Features and benefits

- High dust holding capacity and low pressure drop at an optimum price-performance ratio.
- Supplied with protection grids fitted to minimize risk of damage to the filter during operation and optionally with a foamed-in place gasket.
- Recessed vertical rails allow full usage of a directly attached prefilter panel resulting in longer lifetimes and lower pressure drops.
- A lug between the two inner V's allows easy handling.
- The frame offers various possibilities for the installation of clips to hold prefilters.
- Optionally installed pins can be used for combination with other pre- or final filters for a 2-in-1 system solution by using the patented Viledon® modular clip-on system.
- For high performance requirements MVPGT-21 cassette filters are optimized in terms of an extended filter surface of 21 m².

EN 779:2012 ISO 16890

ARTICLE	ARTICLE NUMBER	DIMENSIONS (W×L×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
MVPGT 85 1/1 V08x25-Z09N-B33-18m ²	53536299	592 × 592 × 292	18	4,250	125	F7	ISO ePM2,5 70%	62	72	90
MVPGT 95 1/1 V08x25-Z09N-C33-18m ²	53536300	592 × 592 × 292	18	4,250	135	F8	ISO ePM1 70%	73	80	93
MVPGT 98 1/1 V08x25-Z09N-D33-18m ²	53536301	592 × 592 × 292	18	4,250	155	F9	ISO ePM1 85%	86	91	97
MVPGT 85 1/1 V08x25-Z09N-B27-21m ²	53536333	592 × 592 × 292	21	4,250	120	F7	ISO ePM2,5 70%	62	72	90
MVPGT 95 1/1 V08x25-Z09N-C27-21m ²	53536334	592 × 592 × 292	21	4,250	130	F8	ISO ePM1 70%	73	80	93
MVPGT 98 1/1 V08x25-Z09N-D27-21m ²	53536335	592 × 592 × 292	21	4,250	150	F9	ISO ePM1 85%	86	91	97
MVPGT 85 1/1 V08x25-N19N-B33-18m ²	53536310	592 × 592 × 292	18	4,250	125	F7	ISO ePM2,5 70%	62	72	90
MVPGT 85 1/1 V08x25-N49N-B33-18m ²	53536312	592 × 592 × 292	18	4,250	125	F7	ISO ePM2,5 70%	73	80	93
MVPGT 95 1/1 V08x25-N19N-C33-18m ²	53536311	592 × 592 × 292	18	4,250	135	F8	ISO ePM1 70%	73	80	93
MVPGT 98 1/2 V08x25-N19N-D33-8.5m ²	53536313	287 × 592 × 292	9.5	2,000	155	F9	ISO ePM1 85%	86	91	97
MVPGT 98 1/1 V08x25-N19N-D33-18m ²	53536329	592 × 592 × 292	18	4,250	155	F9	ISO ePM1 85%	86	91	97
MVPGT 95 1/1 V08x25-N19N-C27-21m ²	53536338	592 × 592 × 292	21	4,250	130	F8	ISO ePM1 70%	74	81	93
MVPGT 98 1/1 V08x25-N19N-D27-21m ²	53536359	592 × 592 × 292	21	4,250	150	F9	ISO ePM1 85%	88	91	97
MVPGT 98 1/1 V08x25-T19N-D33-18m ²	53536364	592 × 592 × 292	18	4,250	155	F9	ISO ePM1 85%	86	91	97

Subject to technical changes.



CASSETTE FILTERS

MVPGT | EPA

SPECIFICATIONS	
Recommended final pressure drop	600 Pa
Bursting pressure	> 4,000 Pa
Thermal stability	70 °C
Moisture resistance	100% rel. hum.
Frame	Halogen-free plastic
Seal	Flat seal, glued
Protection grids	Halogen-free plastic, on the clean air side



Application

Viledon® MVPGT cassette filters are used for intake air filtration of

- gas turbines in power generation and in the oil and gas industry,
- compressors and diesel and gas engines.

They are particularly well suited for peaking units located onshore with average dust concentrations in the ambient air.

Features and benefits

- High dust holding capacity and low pressure drop at an optimum price-performance ratio.
- Supplied with protection grids fitted to minimize risk of damage to the filter during operation and optionally with a foamed-in place gasket.
- Recessed vertical rails allow full usage of a directly attached prefilter panel resulting in longer lifetimes and lower pressure drops.
- A lug between the two inner V's allows easy handling.
- The frame offers various possibilities for the installation of clips to hold prefilters.
- Optionally installed pins can be used for combination with other pre- or final filters for a 2-in-1 system solution by using the patented Viledon® modular clip-on system.
- For high performance requirements MVPGT-21 cassette filters are optimized in terms of an extended filter surface of 21 m².

Subject to technical changes.

ARTICLE	ARTICLE NUMBER	DIMENSIONS (W×L×D) [mm]	FILTER AREA [m ²]	NOMINAL VOLUME FLOW [m ³ /h]	INITIAL PRESSURE DROP [Pa]	EN 1822:2009		ISO 16890			
						FILTER CLASS ACC. TO EN 1822:2009	ARRESTANCE EFFICIENCY/MIPPS [%]	CLASS TO ISO 16890	PARTICULATE MATTER EFFICIENCY [%]		
									ISO ePM1	ISO ePM2.5	ISO ePM10
MVPGT E10 1/1 V08x25-Z09N-K27-21m ²	53536337	592×592×292	21.0	3,400	145	E10	≥85	ISO ePM1 95%	95	97	99
MVPGT E11 1/2 V08x25-Z09N-F27-9.5m ²	53536302	287×592×292	9.5	1,500	165	E11	≥95	ISO ePM1 >95%	98	99	>99
MVPGT E11 1/1 V08x25-Z09N-F27-21m ²	53536303	592×592×292	18.0	3,400	165	E11	≥95	ISO ePM1 >95%	98	99	>99
MVPGT E10 1/1 V08x25-N19N-K27-21m ²	53536360	592×592×292	21.0	3,400	145	E10	≥85	ISO ePM1 95%	95	97	99
MVPGT E11 1/1 V08x25-N19N-F27-21m ²	53536331	592×592×292	21.0	3,400	165	E11	≥95	ISO ePM1 >95%	98	99	>99