

MAXIPLEAT CASSETTE FILTERS BOX TYPE SERIES

THE FLOW-OPTIMIZED FILTER SOLUTION

viledon®

FILTER TYPE	FILTER CLASS TO ISO 16890	FILTER CLASS TO EN 779:2012
MX 75 R-D	ISO ePM10 85%	M 6
MX 85 R-D	ISO ePM2,5 65%	F 7
MX 95 R-D	ISO ePM1 65%	F 8
MX 98 R-D	ISO ePM1 80%	F 9



The application

Viledon® MaxiPleat cassette filters of the box type series offer maximized operational reliability and cost-efficiency for intake air filtration in turbomachinery systems. In this application they meet the stringent requirements for clean air quality, particularly under critical on-site conditions with high humidity in coastal areas and offshore installations, where space is limited and when process safety does not permit any compromises.

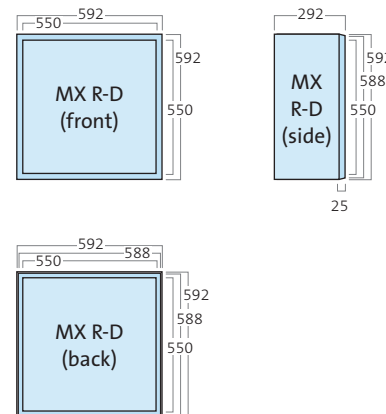
The special features and benefits

- High-strength micro-glassfiber papers with a special thermoplastic bonding system and **hydrophobic coating** are used as filter media.
- Our thermal embossing process, with its optimum V-shaped pleat geometry, ensures full utilization of the filtering area and uniform dust deposition, **plus homogeneous air flow** coupled with a **low average pressure**

drop, i.e. a very low increase in the pressure drop. This means a **long useful lifetime, with cost-efficient and reliable operation.**

- The leak-proof casting of the dimensionally stable pleat pack in the distortion-resistant plastic frame results in **outstanding bursting strength** as well as **high security against dust penetration**. Gripping lugs facilitate mounting and removal, and **protection grids** on both sides minimize the risk of damage to the filter medium.
- The MaxiPleat box type design offers an **enlarged face opening and filtering area** resulting in **reduced pressure drop** and a higher dust holding capacity.
- The entire filter element is non-corroding and **fully incinerable**, as it contains no metal parts. Frame and protection grids are made of halogen-free plastic to IEC 61249-2-21:2003.

- To avoid fouling and corrosion of turbine blades MaxiPleat filters of the box type series are available upon request with an optional **water barrier** which reduces intaken water from reaching the clean-air side.

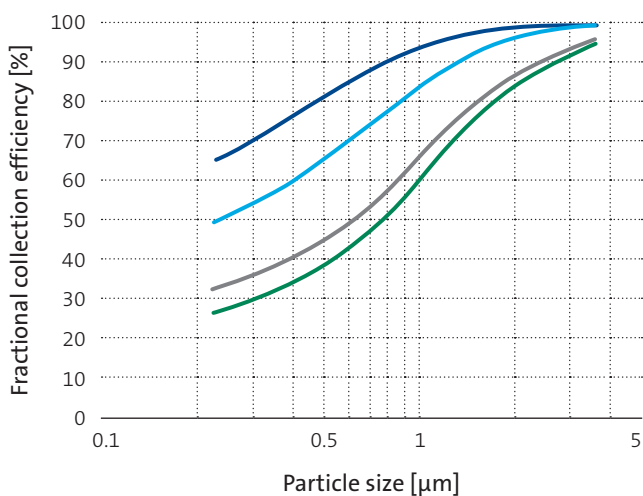


GEOMETRIES AVAILABLE		1/1	5/6	1/2
Nominal volume flow rate	m³/h	4,250	3,500	2,000
Filtering area	m²	21	16.9	8.5
Front frame for mounting frame	mm	592 x 592	490 x 592	287 x 592
Overall depth	mm	292		
Weight, approx.	kg	7.6	6.5	4.4
Thermal stability	°C	70		
Moisture-resistance (rel. hum.)	%	100		

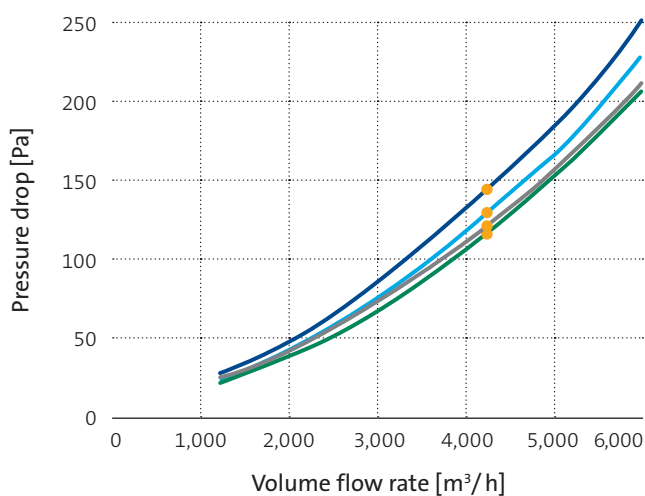
- Besides the boxtype version, MaxiPleat cassette filters can be obtained in **standard version** with a 25 mm or 20.5 mm front frame thickness. This geometry allows the installation of the Viledon® **MaxiPleat Modular Filter System**. All MaxiPleat filter series are also available in EPA filter classes ISO ePM1 ≥ 95% and E 12.

TECHNICAL FILTER TEST DATA TO EN 779 AND ISO 16890

Fractional collection efficiency curves



Initial pressure drop curves



— MX 98 R-D — MX 95 R-D — MX 85 R-D — MX 75 R-D ● Nominal volume flow rate

KEY DATA		MX 75 R-D	MX 85 R-D	MX 95 R-D	MX 98 R-D
Nominal volume flow rate	● m³/h	4,250			
Initial pressure drop	Pa	115	120	130	145
Class to ISO 16890		ISO ePM10 85%	ISO ePM2,5 65%	ISO ePM1 65%	ISO ePM1 80%
Particulate matter efficiency					
ISO ePM1		54	60	68	84
ISO ePM2,5	%	62	69	76	88
ISO ePM10		86	88	92	96
Cut-off particle size	µm	6	5	4	2.5
Filter class to EN 779:2012		M 6	F 7	F 8	F 9
Recom. final pressure drop*	Pa	625			
Bursting strength	Pa	>6,000			
Dust holding capacity at AC fine up to 625 Pa	g	1,000	900	850	800

* For cost-efficiency or system-specific reasons it may be appropriate to change the filters before reaching the stated final pressure drop. 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.

FREUDENBERG FILTRATION TECHNOLOGIES

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