

# Potent Spacesavers of Patent Quality: MaxiPleat Cassette Filters Filter Classes F 6 – F 9



MX 75	F 6	EN 779
MX 85	F 7	EN 779
MX 95	F 8	EN 779
MX 98	F 9	EN 779
Fine Filtration		

viledon®

## The application

Viledon MaxiPleat cassette filters offer maximized operational reliability and cost-efficiency for supply, exhaust and recirculated air filtration in ventilation systems which have stringent requirements for clean air quality, particularly under critical on-site conditions, high air flow rates, where space is limited and when process safety does not permit any compromises, e.g.

- ▶ in intake air filtration for turbomachinery
- ▶ in industrial processes (chemicals, pharmaceuticals, foods and beverages, optics, electronics, surface treatment, etc.)
- ▶ in sophisticated air-conditioning applications (laboratories, libraries, museums, airports, office buildings, etc.)
- ▶ as policing filters in dust removal applications.

## The special features and benefits

- ▶ High-strength micro-glassfiber papers with a special thermoplastic bonding system and water-resistant coating are used as filter media.
- ▶ Our patented 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 slow 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.

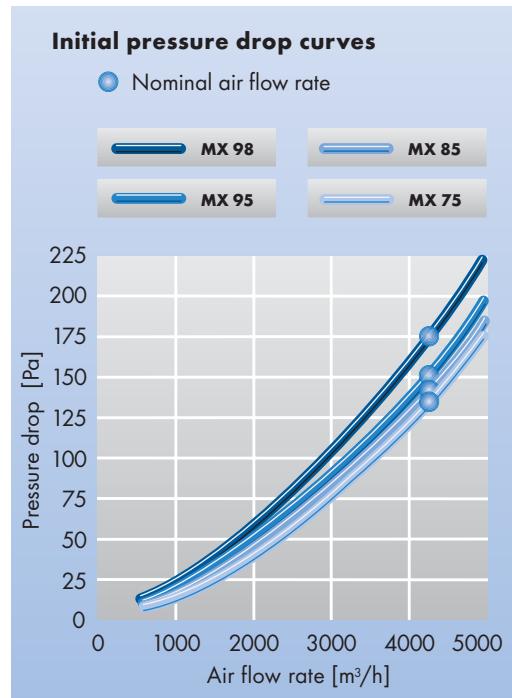
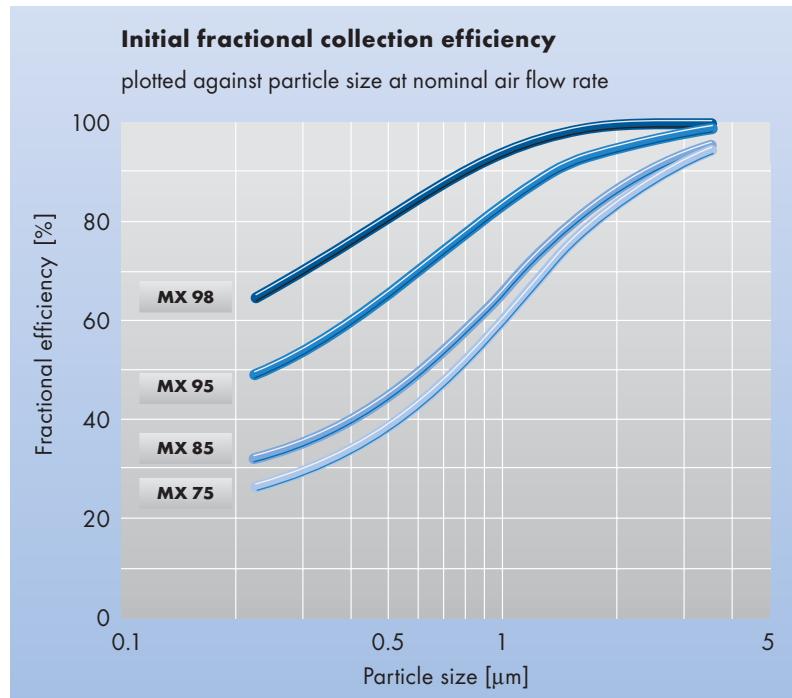
- ▶ Besides the standard version with 25 mm front frame thickness, the filters are also available with a 20.5 mm thick front frame or without a front frame. An optional water barrier prevents intaken water from reaching the clean-air side. Foamed-on PU gasket upon request.
- ▶ The entire filter element is non-corrodible and fully incinerable, as it contains no metal parts. Frame and protection grids are made of halogen-free plastic.
- ▶ Viledon MaxiPleat filters are moisture-resistant up to 100% rel. humidity, thermally stable up to 70°C (temporarily up to 80°C), microbiologically inactive and meet all hygiene requirements for HVAC systems to EN 13779 and the German VDI Guideline 6022. The frame and filter media are self-extinguishing to DIN 53438 (Fire Class F1).

## The extras

- ▶ With the MaxiPleat Modular Filter System, MaxiPleat filters of different filter classes and depths can be combined in a positive fit by simple plug-on. This allows an additional filter stage to be inserted without any structural modifications (see separate data sheet).
- ▶ The MaxiPleat cassette filters are also available in Filter Classes H 11 and H 12, plus in 140 mm depths, with and without a front frame.

Freudenberg

# Technical filter data



Key data		MX 75	MX 85	MX 95	MX 98	
▶ Average efficiency	(0.4 μm)	%	75	86	92	96
▶ Nominal air flow rate	●	m³/h	4250	4250	4250	4250
▶ Max. permissible air flow rate		m³/h	5500	5500	5500	5500
▶ Initial pressure drop		Pa	135	140	150	175
▶ Recommended final pressure drop *		Pa	650	650	650	650
▶ Bursting strength **		Pa	> 6000	> 6000	> 6000	> 6000
▶ Dust holding capacity (AC Fine / 1000 Pa)		g	2300	1900	1700	1500

\* 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.

\*\* Tested by the Air Filter Testing Laboratories (AFTL), Kentucky, USA

Available geometries		1/1	5/6	1/2
▶ Nominal air flow rate	m³/h	4250	3500	2000
▶ Filtering area	m²	18	14.5	7.5
▶ Front frame for mounting frame	mm	592 x 592 x 25 610 x 610	490 x 592 x 25 508 x 610	287 x 592 x 25 305 x 610
▶ Overall depth	mm	292	292	292
▶ Weight, approx.	kg	7	6	4

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.

You will find instructions on how to handle and dispose of loaded filters in our information on product safety and eco-compatibility.