MVPGT Cassette Filters – Viledon® quality with an optimum price-performance ratio

Filter classes F 7 – F 9

Filter type	Filter class	Nominal volume flow rate [m³/h]	Test standard
MVPGT 85	F7	4,250	EN 779
MVPGT 95	F8	4,250	EN 779
MVPGT 98	F9	4,250	EN 779

The application

Viledon® MVPGT cassette filters offer operational reliability and cost efficiency for supply, exhaust and recirculated-air filtration in ventilation systems which have stringent requirements for clean air quality, e.g.

- intake air filtration for turbomachinery applications

The characteristics

- MVPGT filters are constructed for **simple handling at installation.**
- Micro-glassfiber papers with **hydrophobic fibers** are used as filter media.
- The entire filter element is **non-corroding, and fully incinerable**, since it contains no metal parts. The frame consists of halogen-free plastic.
- We were one of the first manufacturers to meet the criteria laid down in the **EUROVENT** certification for air filters of Classes M 5 to F 9. This means that **neutral testing institutes regularly verify** our fine-filters' compliance with crucial performance data.
- Freudenberg Filtration Technologies has been certified under the current version of DIN EN ISO 9001 by the German Society for Management System Certification (DQS). Our **holistically conceived integrated management system** is based on the current standards ISO/TS 16949 (requirements of the automotive industry), DIN EN ISO 14001 (eco-management) and OHSAS 18001 (occupational health and safety). Six Sigma is an integral constituent of our corporate culture.

The special features

- MVPGT cassette filters offer a combination of high dust holding capacity, low pressure drop at an **optimum price-performance ratio.**
- MVPGT is particularly suited for peaking units located onshore with average dust concentrations in the ambient air.
- The leak-proof casting of the dimensionally stable media pleat pack provides **high burst strength,** as well as **excellent security against dust penetration during operation.**
- MVPGT cassette filters are supplied as standard with an adhesively affixed gasket and a protection grid fitted to minimize risk of damage to the filter during operation.
- For demanding coastal, industrial or offshore conditions we recommend our field-proven MaxiPleat cassette filter range. Our product portfolio is completed by cassette filters of EPA filter classes (E 10 – E 12) offering higher efficiency.

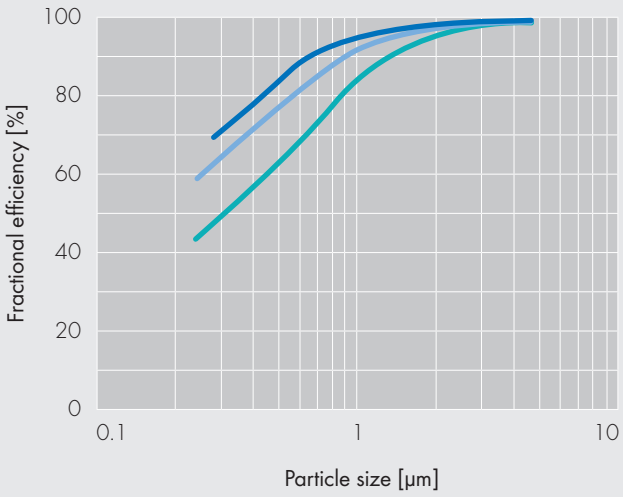
Available geometries		1/1	5/6	1/2
Nominal air flow rate	m³/h	4,250	4,100	2,250
Effective filtering area	m²	18	14.5	8.5
Front frame for mounting frame	mm	593×593×25 610×610	491×593×25 508×610	288×593×25 305×610
Overall depth	mm	292	292	292
Weight, approx.	kg	5.6	4.6	3.3
Thermal stability	°C	70	70	70
Moisture-resistance (rel. hum.)	%	100	100	100

Technical filter test data to EN 779

Initial fractional collection efficiency
plotted against particle size at nominal air flow rate

MVPGT98 **MVPGT85**
MVPGT95

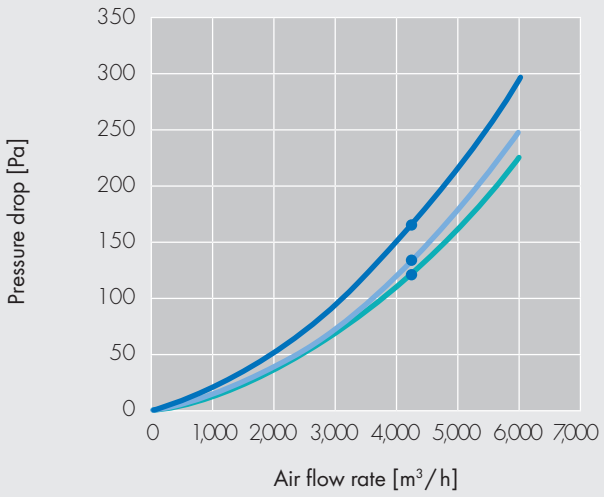
MVPGT85, MVPGT95, MVPGT98



Initial pressure drop curves

MVPGT98 **MVPGT85** Nominal
MVPGT95 air flow rate

MVPGT85, MVPGT95, MVPGT98



Key data		MVPGT85	MVPGT95	MVPGT98
Filter class		F7	F8	F9
Initial efficiency	%	56	70	82
Minimum efficiency after isopropanol (IPA) treatment	%	53	67	79
Average efficiency (0.4 µm)	%	≥80	≥90	≥95
Nominal air flow rate ●	m^3/h	4,250	4,250	4,250
Initial pressure drop	Pa	125	135	165
Recommended final pressure drop*	Pa	600	600	600
Bursting strength	Pa	>4,000	>4,000	>4,000
Dust holding capacity (AC Fine / 800 Pa), approx.	g	1,000	880	800

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.

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