EMAXX CASSETTE FILTERS POWERFUL. EFFICIENT. ECONOMIC. DURABLE.

viledon®

FINE FILTERS FOR GAS TURBINES AND COMPRESSORS

FILTER TYPE	FILTER CLASS TO ISO 16890	FILTER CLASS TO EN 779:2012	FILTER CLASS TO EN 1822:2009
eMaxx-98	ISO ePM1 80%	F 9	–
eMaxx-E10	ISO ePM1 > 95%	–	E 10
eMaxx-E11	ISO ePM1 > 95%	–	E 11
eMaxx-E12	–	–	E 12

The application

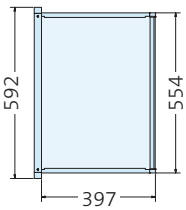
Viledon® eMaxx Filter are a new generation of powerful, efficient, economic and durable cassette filters offering operational reliability and cost efficiency for supply of air filtration systems which have stringent requirements for clean air quality. They are used in

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

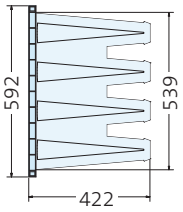
The special features and benefits

- 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, leak-proof casting of the dimensionally stable media pleat pack provides **high burst strength**, as well as **excellent security against dust penetration during operation**.

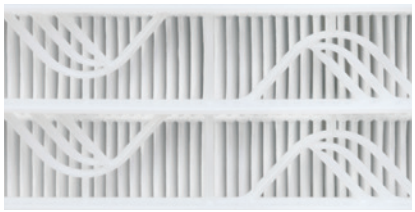
side view



top view



- The vertical arrangement of pleats allows drainage of water to the bottom and an integrated water slope transports the water towards the upstream side of the filter. Both results in less water saturation of the filter and reduced pressure drop increase.



The extras

- Combination of excellent dust holding capacity at low pressure drop.
- eMaxx cassette filters are supplied as standard with a foamed in place gasket and burst protection grids 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**.

GEOMETRIES AVAILABLE		1/1
Nominal volume flow rate	m^3/h	3,400 / 4,250
Filtering area	m^2	30
Front frame for mounting frame	mm	592 × 592 × 25 610 × 610
Overall depth	mm	422
Weight, approx.	kg	11
Temperature resistance	°C	70
Moisture-resistance (rel. hum.)	%	100

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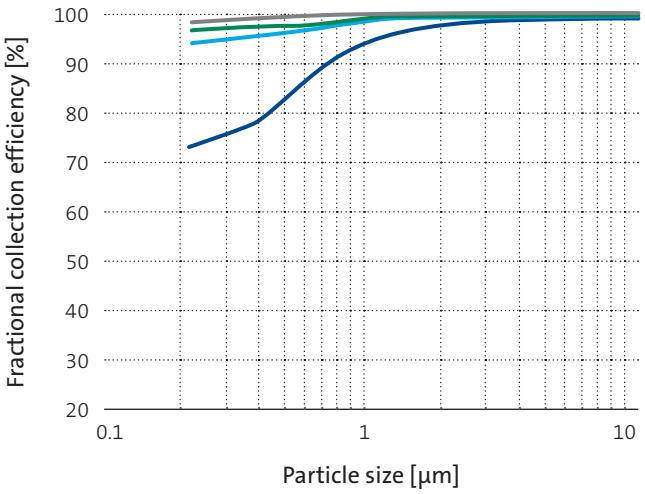
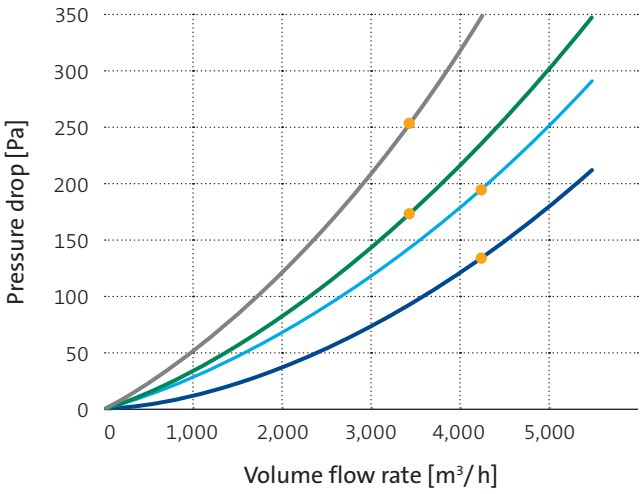
TECHNICAL FILTER TEST DATA TO EN 779, EN 1822 AND ISO 16890

Fractional collection efficiency curves



Initial pressure drop curves



eMaxx-98 eMaxx-E10 eMaxx-E11 eMaxx-E12 Nominal volume flow rate

KEY DATA		eMaxx-98	eMaxx-E10	eMaxx-E11	eMaxx-E12
Nominal volume flow rate ●	m³/h	4,250	4,250	3,400	3,400
Initial pressure drop	Pa	135	195	170	250
Class to ISO 16890		ISO ePM1 80%	ISO ePM1 > 95%	ISO ePM1 > 95%	n. a.
Particulate matter efficiency ISO ePM1 ISO ePM2,5 ISO ePM10	% 	 83 87 95	 97 98 99	 98 99 > 99	 n. a. n. a. n. a.
Cut-off particle size	µm	3	1	0.5	n. a.
Filter class to EN 779:2012 EN 1822:2009	 	 F 9 –	 – E 10	 – E 11	 – E 12
Minimum efficiency for MPPS	%	–	≥ 85	≥ 95	> 99.5
Recom. final pressure drop*	Pa	600			
Maximum final pressure drop	Pa	1,000			
Dust holding capacity approx. (AC Fine / 650 Pa)	g	2,400	2,200	2,100	2,000

* For cost-efficiency or system-specific reasons it may be appropriate to change the filters before reaching the final pressure drop stated. It can also be exceeded in certain applications.

n. a. = not applicable

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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