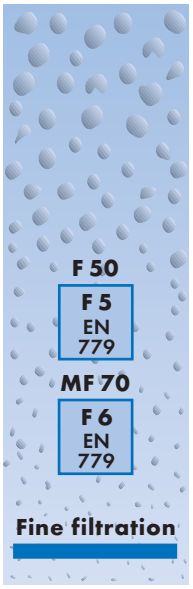
They've got arrestance and collection down to a fine art: Compact Pocket Filters F 50 and MF 70 Filter Classes F 5 – F 6



viledon®

The application

F 50 and MF 70 are used in supply, exhaust and circulating air filtration in all kinds of ventilation systems, particularly

- in air-conditioning installations (office buildings, exhibition halls, shopping centres, etc.)
- in industrial processes (chemicals, pharmaceuticals, foodstuffs, optics, electronics, surface treatment, etc.)
- for ventilating machine rooms and production areas (F 50 especially)
- as prefilters in turbomachinery (F 50 especially)
- as prefilters for HEPA filters (MF 70 especially)

The special features and benefits

- As filter media we use **synthetic-organic high performance nonwovens manufactured in-house.**
- The media are **progressively structured**, i.e. fiber layers arranged in line, with the density increasing towards the clean air side, thus ensuring an optimized combination of filtration performance and dust holding capacity. The MF 70 medium has a triple-layered progressive structure, with a high-arrestance microfiber layer surrounded by a prefilter and a support layer. The result: **high arrestance, low pressure drop, long useful life, high cost-efficiency.**
- All Compact pocket filters are **glassfiber-free, non-corroding, moisture-resistant** up to 100% rel. humidity, **self-extinguishing** to DIN 53438 (Fire Class F1) as well as **microbiologically inactive and meet all hygiene requirements for HVAC systems** to EN 13779.
- The **uniformly high quality** of the filters is assured by our **certified quality management system** to ISO 9001 as well as by **type-testing** to EN 779.
- **Maximized functional reliability** thanks to the leak-proof welded configuration of the filter pockets, foamed into the polyurethane front frame, aerodynamically optimized welded-in spacers, and dimensionally stable construction of the filter element as a whole.

F 50		1/1	5/6	1/2	1/4
Weight, approx.	kg	2.0	1.6	1.2	0.7
Front frame	mm	592/592	492/592	289/592	289/289
Depth	mm	650	650	650	650
Number of pockets		5	4	3	4
Suitable for standard mounting frame	mm	610/610	508/610	305/610	305/305
Thermal stability/ temporary peaks	°C	70 80	70 80	70 80	70 80

MF 70		1/1	5/6	1/2	1/4
Weight, approx.	kg	2.7	2.0	1.2	0.6
Front frame	mm	592/592	492/592	289/592	289/289
Depth	mm	650	650	650	650
Number of pockets		8	6	4	4
Suitable for standard mounting frame	mm	610/610	508/610	305/610	305/305
Thermal stability/ temporary peaks	°C	70 80	70 80	70 80	70 80

The extras

- F 50 offers high clean air quality coupled with outstanding cost-efficiency.
- MF 70 arrests a high proportion even of critical fine particles, offering safe filtration performance together with a low pressure drop.

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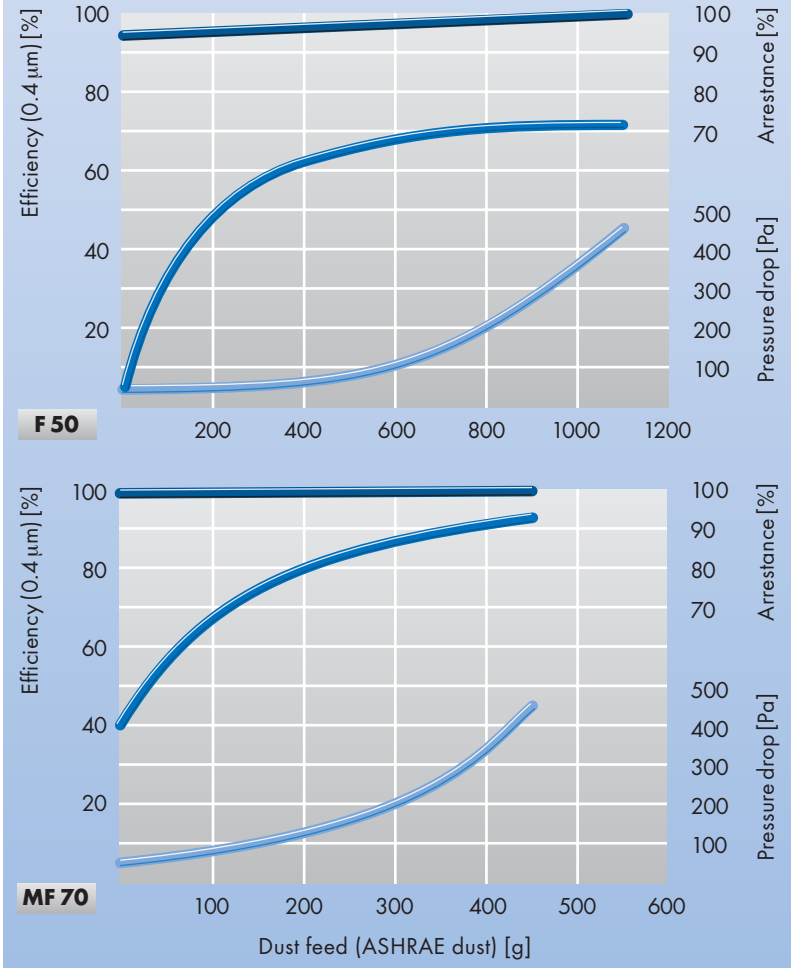
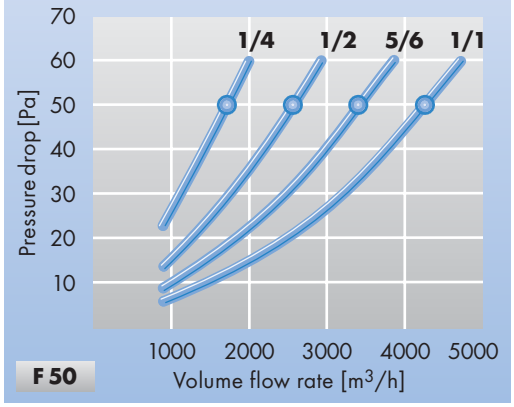
Technical filter test data to EN 779

Arrestance plotted against dust feed*
Efficiency (0.4 µm) plotted against dust feed*
Pressure drop plotted against dust feed*
* at nominal volume flow rate
Effective filtering area: 3.8 m² (F 50) / 5.6 m² (MF 70)



Initial pressure drop curves
indicate the main application area
Nominal volume flow rate



Initial pressure drop curves
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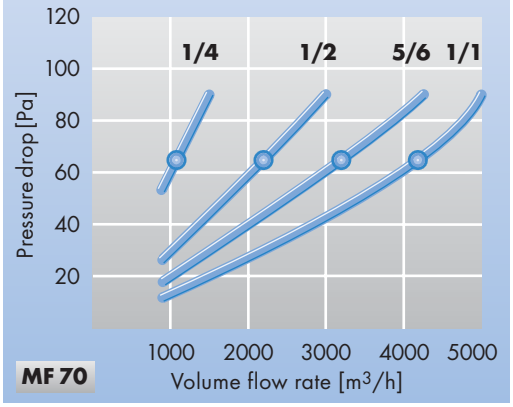

Data			F 50	MF 70
Average arrestance	A_a	%	97	> 99
Average efficiency	E_a	%	51	75
Face velocity		m/s	3.2	3.2
Nominal volume flow rate		m³/h	4250	4250
Initial pressure drop		Pa	50	65
Final pressure drop*		Pa	450	450
Dust holding capacity (AC Fine / 450 Pa)		g	3650	1800

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.

* 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.

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

Subject to technical alterations.

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