

COST-EFFECTIVE AND ENERGY-EFFICIENT IN CONTINUOUS OPERATION



F 50 POCKET FILTERS

FILTER TYPE	MERV CLASS	NOMINAL VOLUME FLOW RATE [cfm]	TEST STANDARD
F50	8	1,968	ASHRAE 52.2



The application

Compact F50 pocket filters are used for filtering intake, exhaust and recirculating air in air-conditioning systems with demanding requirements for sturdiness and cost-efficiency, such as

- paint lines
- industrial processes
- ventilating machine rooms and production areas
- sophisticated air-conditioning systems (hospitals, laboratories, libraries, museums, airports, etc.)
- intake air filtration of gas turbines and compressors

Characteristics and benefits

- The filter media is made of **high-performance nonwovens, produced in-house from unbreakable, synthetic-organic fibers**. This ensures durability, high arrestance, low pressure drop, long useful lifetimes and high cost-efficiency.

- F50 filters are highly energy-efficient thereby reducing energy costs and CO₂ emissions.
- F50 pocket filters are free of glass fibers, non-corroding and **microbiologically inactive**.
- **Maximized dependability** thanks to the leakproof-welded configuration of the filter pockets, foam-sealed into a PUR front frame.

The special features

- The F50 filters provide clean air quality together with high cost efficiency.
- High functional reliability, even under extremely moist and wet operating conditions.
- Thanks to their shorter pockets, F50S filters offer a **space-saving solution** for units where the use of long-pocket filters would not be possible.
- To optimize pre-filtration and/or when used in confined spaces, an **ad-**

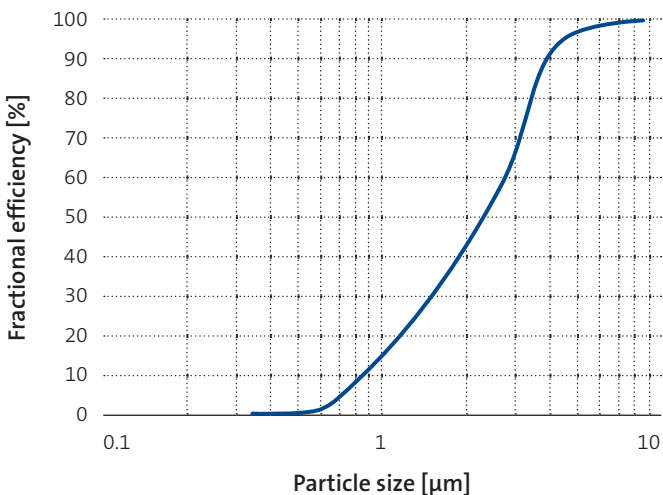
ditional filter stage can be inserted into an existing filter wall using the reverse-flow F50 R short-pocket filter. The filter is attached to the main filter using clips. The required support cage, adhesive seals and mounting clips are available as accessories.



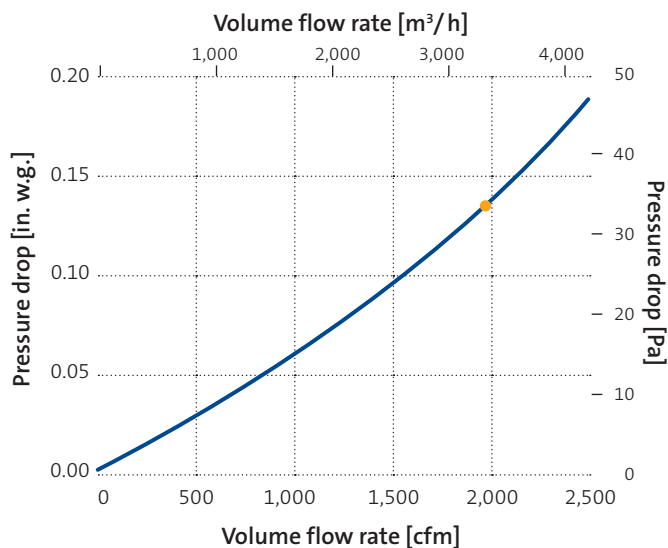
GEOMETRIES AVAILABLE		1/1	5/6	1/2	1/4	S 1/1
Front frame	in.	23 ³ / ₈ x 23 ³ / ₈	19 ³ / ₈ x 23 ³ / ₈	11 ³ / ₈ x 23 ³ / ₈	11 ³ / ₈ x 11 ³ / ₈	23 ³ / ₈ x 23 ³ / ₈
Overall depth	in.	26	26	26	26	20
Number of pockets		5	4	3	4	5
Effective filtering area	ft ²	42	33.6	25.2	17	32.3
Weight approx.	lb.	4.4	4.0	2.5	1.5	4.0
Thermal stability	°F	160	160	160	160	160
Suitable for standard mounting frame	in.	24 x 24	20 x 24	12 x 24	12 x 12	24 x 24

TECHNICAL FILTER TEST DATA TO ASHRAE 52.2

Initial fractional collection efficiency plotted against particle size (ASHRAE 52.2)



Initial pressure drop curves



— F50

● Nominal volume flow rate

KEY DATA		F 50 1/1
Filter class		MERV 8
Nominal volume flow rate	● cfm	1,968
Initial pressure drop	in. w.g.	.14
Recom. final pressure drop*	in. w.g.	1.5
Burst Strength	in. w.g.	>25

* 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.

Test report 16-018

The figures given are mean values subject to tolerances due to 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.