

RELIABLE, EFFECTIVE, ROBUST



COMPACT POCKET FILTERS F 45 S

FILTER TYPE	MERV CLASS	NOMINAL VOLUME FLOW RATE [cfm]	TEST STANDARD
F45S	8	1,968	ASHRAE 52.2



The application

F45S pocket filters are used for supply, exhaust and recirculating air filtration in all kinds of ventilation systems, such as

- general air-conditioning applications
- ventilating machine rooms and production areas
- exhaust and recirculating air filtration in paint lines
- prefilters for fine and micro-filters in industrial processes (metal processing, chemicals, pharmaceuticals, food and beverages, optics, electronics, etc.), ventilation and air conditioning technology, in paint lines/paint spray booths and for turbomachinery.

Characteristics and benefits

- As filter media, we use our **progressively structured high-performance nonwovens made in-house from tear-resistant synthetic organic fibers.**

- High separation capacity with low pressure drop, **long service life and excellent cost-efficiency.**
- F45S pocket filters are free of glass fibers, non-corroding, and **microbiologically inactive.**
- **Maximized functional reliability** thanks to the leak-proof welded configuration of the filter pockets, foamed-in polyurethane front frame, aerodynamic welded in spacers (long-pocket filters only), and stable construction of the filter element as a whole.

The special features

- Robust filter series for heavy coarse dust loadings, even at high air flow rates.
- High functional reliability, even under extremely moist and wet operating conditions.

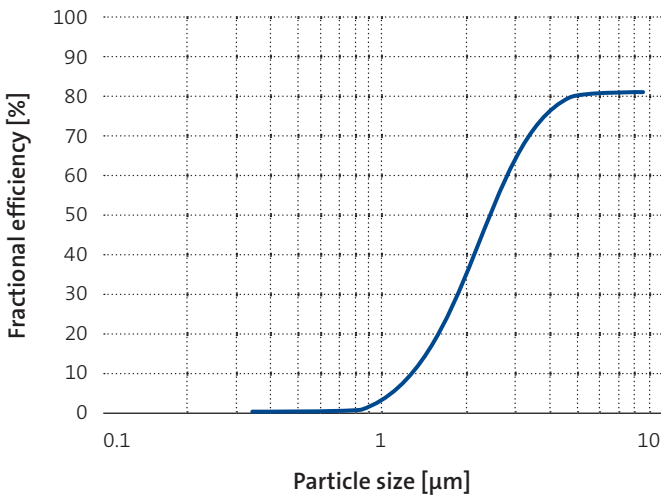
- Thanks to their shorter pockets, F45S filters offer a **space-saving solution** for plants where the use of long-pocket filters would not be possible.



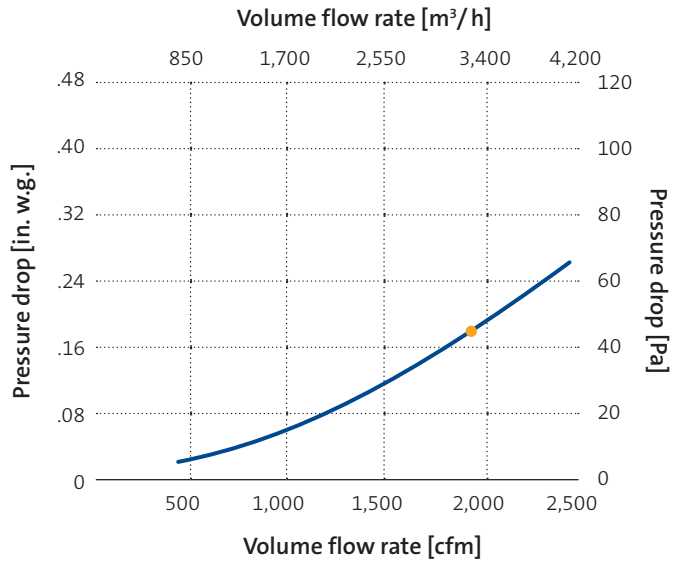
GEOMETRIES AVAILABLE		1 / 1	5 / 6	1 / 2
Front frame	in	23 ³ / ₈ × 23 ³ / ₈	19 ³ / ₈ × 23 ³ / ₈	11 ³ / ₈ × 23 ³ / ₈
Overall depth	in	13	13	13
Number of pockets		5	4	3
Effective filtering area	ft ²	20	16	12
Weight approx.	lb	2.25	2	1.5
Thermal stability	°F	160	160	160
Moisture-resistance (rel. hum.)	%	100	100	100
Suitable for standard mounting frame	in	24 × 24	20 × 24	12 × 24

TECHNICAL FILTER TEST DATA TO ASHRAE 52.2

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



Initial pressure drop curves



— F45S 1/1

● Nominal volume flow rate

KEY DATA		F45S 1/1
Nominal volume flow rate	●	cfm 1,968
Initial pressure drop		in. w.g. .18
Recom. final pressure drop*		in. w.g. 1.5
Burst Strength		in. w.g. >25
Dust holding capacity approx. (ASHRAE dust)		g 407

* 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.

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.