

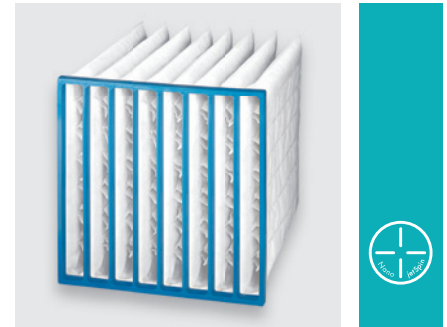
Filtration at its finest thanks to Nano jetSpin technology

MF 90 Compact pocket filters



Filter type	Filter class	Nominal volume flow rate [m³/h]	Test standard	Energy efficiency class*
MF 90	F7	4,250	EN 779	C

* According to Eurovent 4/11, rated at 3,400 m³/h



The application

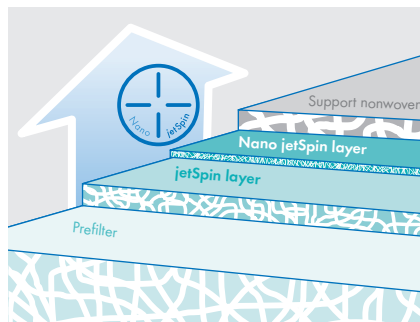
MF 90 Compact pocket filters featuring Nano jetSpin technology are used for supply, exhaust and recirculated-air filtration in ventilation systems posing special safety requirements for air-entrance capability, such as

- in sophisticated air-conditioning systems (hospitals, laboratories, libraries, museums, airports, etc.)
- in industrial processes (chemicals, pharmaceuticals, foods and beverages, optics, electronics, paint shops, etc.)
- as prefilters for HEPA filters
- as downstream "policing filters" in dust removal systems

Their characteristics and benefits

- The filter medium used is a **4-layered progressively structured high-performance nonwoven featuring a nanofiber layer**, made of non-breaking, synthetic-organic fibers.

- One jetSpin layer together with one super-fine **Nano jetSpin layer**, surrounded by a prefilter and a support layer, ensures **optimum filtration of critical fine particles** in the heart of the medium.



- MF 90 pocket filters can be relied upon for **continuously excellent mechanical filtration performance** under all duty conditions. The inherent rigidity of the filter elements, in conjunction with the very high efficiency and the favorable pressure drop of the media involved, ensures high dust holding capacity, long useful lifetimes, **optimized cost-efficiency and good protection**

against critical fine particles, bacteria and fungi.

- High functional dependability**, thanks to the leakproof-welded configuration of the filter pockets, foam-sealed into a PUR front frame, with aerodynamically optimized welded-in spacers and dimensionally stable construction of the filter element as a whole.
- The pocket filters are free of glass fibers, non-corroding, **microbiologically inactive**, and **meet all the criteria laid down in VDI Guideline 6022** "Hygiene Requirements for HVAC Systems".
- The filters' consistently high quality is assured by our state-of-the-art ISO 9001-compliant **quality management system**, and by type-testing to EN 779.

The special features

- MF 90 Compact pocket filters meet the most stringent of requirements in fine-filtration jobs, and ensure very high clean-air quality, thus making a crucial contribution to cost-efficient operation of sensitive systems and processes.

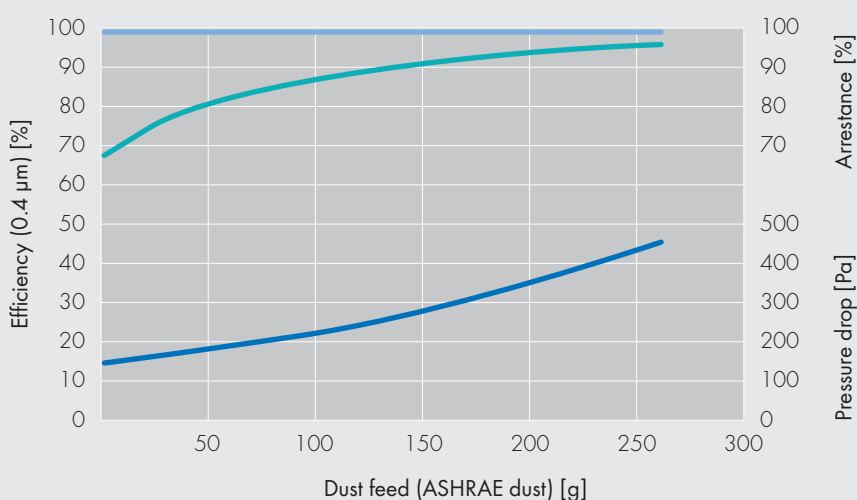
Geometries available		1/1	5/6	1/2	1/4
Effective filtering area	m²	6.2	4.7	3.1	1.5
Weight approx.	kg	2.2	1.6	1.1	0.5
Front frame	mm	592 592	492 592	289 592	289 289
Overall depth	mm	650	650	650	650
Number of pockets		8	6	4	4
Suitable for standard mounting frame	mm	610 610	508 610	305 610	305 305
Thermal stability	°C	70	70	70	70
Moisture-resistance (rel. hum.)	%	100	100	100	100

Technical filter test data to EN 779

Arrestance, efficiency and pressure drop plotted against dust feed at nominal volume flow rate

Efficiency — Arrestance —
Pressure drop —

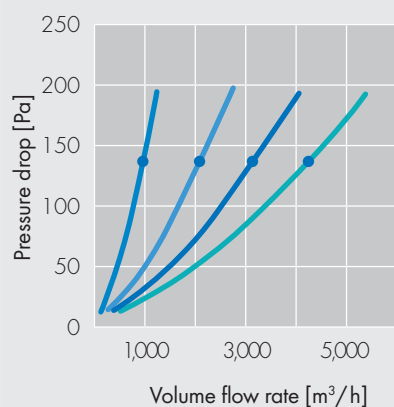
MF 90



Initial pressure drop curves

Nominal volume flow rate ●
1/1 — 5/6 — 1/2 — 1/4 —

MF 90



Key data

MF 90

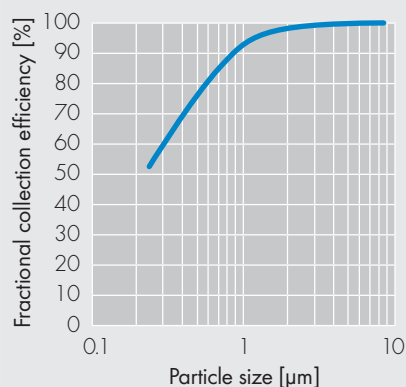
Filter class		F7
Initial efficiency	%	67
Minimum efficiency after isopropanol (IPA) treatment	%	35
Average efficiency E_m	%	88
Average arrestance A_m	%	> 99
Nominal volume flow rate ●	m³/h	4,250
Initial pressure drop	Pa	140
Final pressure drop*	Pa	450
Dust holding capacity approx. (AC Fine / 800 Pa)	g	2,000

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.

*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.

Fractional collection efficiency in new condition

MF 90



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