

F 90 COMPACT POCKET FILTERS



FILTRATION AT ITS FINEST
FOR HYGIENIC AIR QUALITY

FILTER TYPE	FILTER CLASS TO ISO 16890	FILTER CLASS TO EN 779:2012
F 90	ISO ePM2,5 65%	F7



The application

F 90 Compact pocket filters featuring innovative media technology are used for supply, exhaust and recirculated-air filtration in food and beverage industry ventilation systems, such as

- for the removal of airborne yeasts and moulds in the bakery industry
- as prefiltration to production / packaging areas in dairy, ready-to-eat, cooked meats and related industries requiring high hygiene control
- ideal first stage prefiltration for protecting the ventilation system from contamination of the cooling / heater batteries

The characteristics and benefits

The Compact F 90 series is highly robust and offers maximum performance. This gives them not only a high resilience but also low pressure differences and excellent efficiency. The optimized high-performance filter medium made from tear resistant synthetic-organic fibers is responsible for the unique inherent stiffness of the pockets. The filter's high

dust-holding capacity and moisture resistance result in a long service life and impressive economic efficiency.

- F 90 pocket filters can be relied upon for continuously excellent mechanical filtration performance under all duty conditions and fulfil all relevant requirements to the ISO ePM₁ class.
- 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.
- F 90 Compact pocket filters are free of glass fibers, non-corroding, micro-biologically inactive, and meet all the criteria laid down in VDI Guideline 6022 "Hygiene requirements for HVAC systems and units".
- 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 and ISO 16890.

The special features

- Long-life, moisture resistant filter media makes the F 90 an ideal filter for the food and beverage industry.
- Contains no glass fibers and is therefore entirely suitable for use in process air supply and in the ventilation of sensitive food production areas.



GEOMETRIES AVAILABLE		1/1	1/2
Nominal volume flow rate	m ³ /h	3,400	1,500
Front frame	mm	592 × 592	289 × 592
Overall depth	mm	650	650
Number of pockets		5	4
Filtering area	m ²	4	3.1
Weight, approx.	kg	1.9	1.1
Thermal stability	°C	70	70
Moisture-resistance (rel. hum.)	%	100	100
Suitable for standard mounting frame	mm	610 × 610	305 × 610

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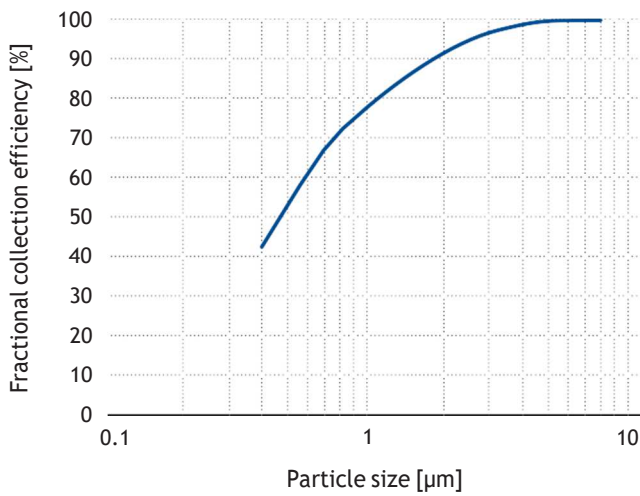
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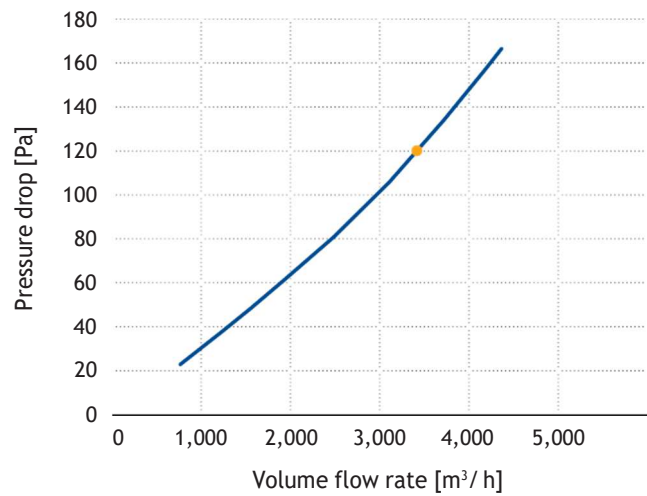


TECHNICAL FILTER TEST DATA TO EN 779 AND ISO 16890

Fractional collection efficiency curve



Initial pressure drop curve



— 1/1 ● Nominal volume flow rate

KEY DATA		F 90
Nominal volume flow rate	● m³/h	3,400
Initial pressure drop	Pa	120
Class to ISO 16890		ISO ePM2,5 65%
Particulate matter efficiency		
ISO ePM1	%	52
ISO ePM2,5		65
ISO ePM10		85
Cut-off particle size	µm	5
Filter class to EN 779:2012		F7
Recom. final pressure drop*	Pa	450
Bursting strength	Pa	> 3,000

* 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.

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.

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