

T90 COMPACT POCKET FILTERS



FILTRATION AT ITS FINEST
FOR HYGIENIC AIR QUALITY

FILTER TYPE	FILTER CLASS TO ISO 16890	FILTER CLASS TO EN 779:2012
T90	ISO ePM2,5 60–65%	F7



The application

T90 Compact pocket filters featuring innovative media technology are used for supply, exhaust and recirculated-air filtration in ventilation systems posing special safety requirements for air-resistance capability, such as

- for the removal of airborne yeasts and moulds in the bakery industry
- as prefiltration for sensitive production/packaging areas in the pharmaceutical and food and beverage industry
- as first filter stage for protecting the ventilation system from contamination (hospitals, laboratories, libraries, museums, airports, etc.)

The characteristics and benefits

The Compact T90 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.

- T90 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.
- T90 Compact 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 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

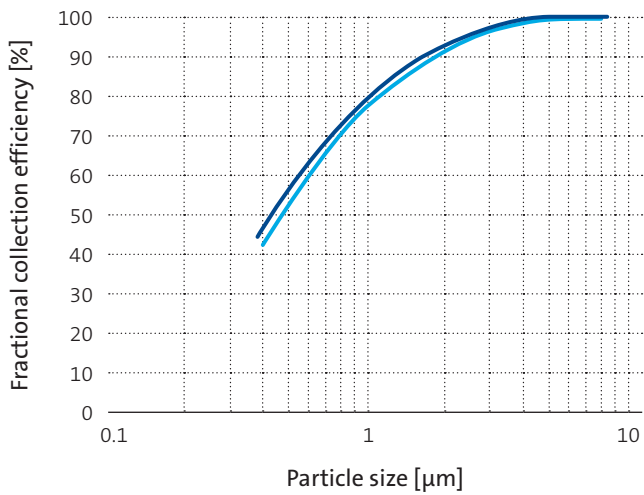
- Long-life, moisture resistant filter media makes the T90 an ideal filter for the food and beverage industry.
- Contains no glass fibers and is therefore entirely suitable for use in process air supply and in the ventilation of sensitive production areas.



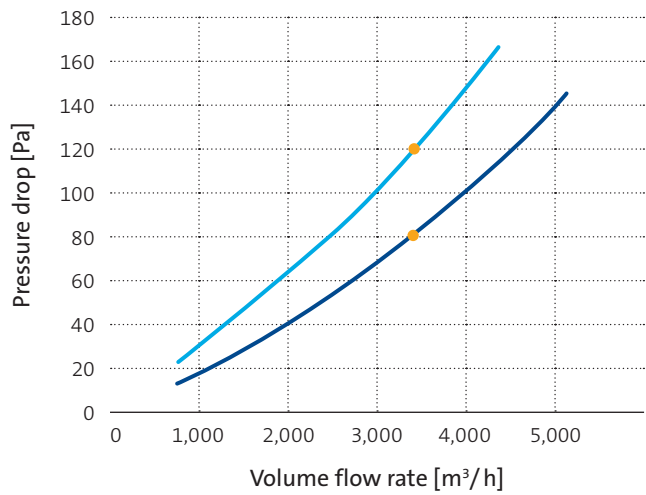
GEOMETRIES AVAILABLE		T90 1/1 8L	T90 1/1 5L	T90 5/6 6L	T90 1/2 4L	T90 1/4 4L
Nominal volume flow rate	m ³ /h	3,400	3,400	2,600	1,700	850
Front frame	mm	592 x 592	592 x 592	492 x 592	289 x 592	289 x 289
Overall depth	mm			650		
Number of pockets		8	5	6	4	4
Filtering area	m ²	6	4	4.7	3.1	1.5
Weight, approx.	kg	2.3	1.9	1.8	1.2	0.6
Thermal stability	°C			70		
Moisture-resistance (rel. hum.)	%			100		
Suitable for standard mounting frame	mm	610 x 610	610 x 610	508 x 610	305 x 610	305 x 305

TECHNICAL FILTER TEST DATA TO EN 779 AND ISO 16890

Fractional collection efficiency curves



Initial pressure drop curves



— T90 1/1 8L — T90 1/1 5L ● Nominal volume flow rate

KEY DATA		T90 1/1 8L	T90 1/1 5L
Nominal volume flow rate	● m³/h	3,400	
Face velocity	m/s	2.5	
Initial pressure drop	Pa	80	120
Class to ISO 16890		ISO ePM2,5 65%	
Particulate matter efficiency			
ISO ePM1	%	53	52
ISO ePM2,5		65	65
ISO ePM10		86	85
Cut-off particle size	µm	5	
Filter class to EN 779:2012		F7	
Recom. final pressure drop*	Pa	450	
Bursting strength	Pa	> 6,000	> 3,000
Dust holding capacity approx. AC Fine / 800 Pa	g	1,900	800

* 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.