

T90 COMPACT POCKET FILTERS



FILTRATION AT ITS FINEST FOR HYGIENIC AIR QUALITY

FILTER TYPE	FILTER CLASS TO ISO 16890	FILTER CLASS TO ASHRAE 52.2-2017
T90	ISO ePM2.5 60-65%	MERV 13



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 molds in the bakery industry
- Prefiltration for sensitive production and packaging areas in the pharmaceutical and food and beverage industry
- 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 excel-

lent 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. Additionally T90 pocket filters:

- Can be relied upon for **continuously excellent mechanical filtration performance** under all duty conditions and fulfil all relevant requirements under the **ISO ePM1** class.
- Offers the leakproof-welded configuration of the filter pockets, foam-sealed into a PUR front frame, with aerodynamically optimized welded-in spacers along with dimensionally stable construction of the filter element as a whole.

- Are free of glass fibers, non-corroding, **microbiologically inactive**.
- Consistently offer high quality - assured by our state-of-the-art ISO 9001-compliant **quality management system**, and by type-testing to ASHRAE 52.2 and ISO 16890.

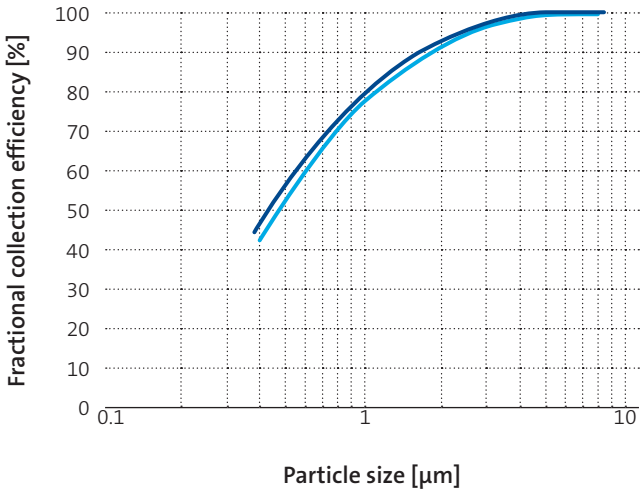
The special features

- 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.

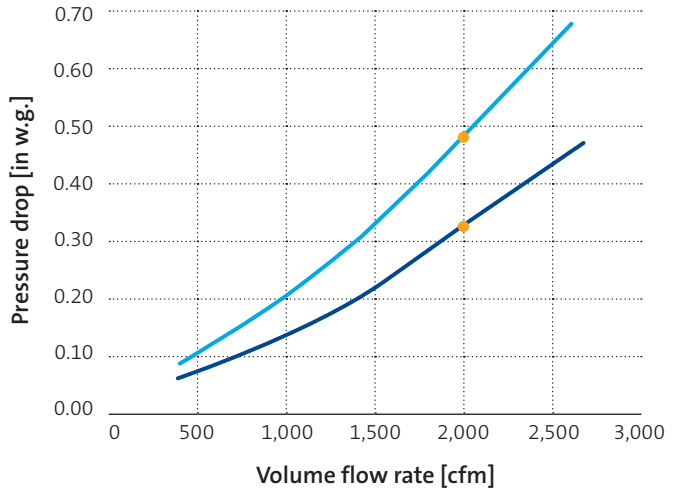
GEOMETRIES AVAILABLE		T90 1/1 8L	T90 1/1 5L	T90 5/6 6L	T90 1/2 4L	T90 1/4 4L
Nominal volume flow rate	cfm	2,000	2,000	1,530	1,000	500
Front frame	inch	23.3 x 23.3	23.3 x 23.3	19.4 x 23.3	11.4 x 23.3	11.4 x 11.4
Overall depth	inch	25.6				
Number of pockets		8	5	6	4	4
Filtering area	ft ²	65	43	50	33	16
Weight, approx.	lb	5.1	4.2	4.0	2.63	1.3
Thermal stability	°F	158				
Moisture-resistance (rel. hum.)	%	100				
Suitable for standard mounting frame	inch	24 x 24	24 x 24	20 x 24	12 x 24	12 x 12

TECHNICAL FILTER TEST DATA TO ASHRAE 52.2 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	● cfm	2,000	
Face velocity	fpm	492	
Initial pressure drop	in w.g.	0.32	0.48
Class to ISO 16890		ePM2.5 65%	
Particulate matter efficiency			
ePM1	%	53	52
ePM2.5		65	65
ePM10		86	85
Cut-off particle size	µm	5	
Filter class to ASHRAE 52.2-2017		MERV 13	
Recom. final pressure drop*	in w.g.	1.80	
Bursting strength	in w.g.	> 24	> 12
Dust holding capacity approx. AC Fine / 800 Pa (3.2 in w.g.)	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.

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