

T90 COMPACT POCKET FILTERS



FILTRATION AT ITS FINEST WITH INNOVATIVE MEDIA TECHNOLOGY

FILTER TYPE	FILTER CLASS TO ISO 16890	FILTER CLASS TO EN 779:2012	ENERGY EFFICIENCY CLASS*
T90	ISO ePM2,5 65%	F7	A+



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

- in sophisticated air-conditioning systems (hospitals, laboratories, libraries, museums, airports, etc.)
- in industrial processes (chemicals, pharmaceuticals, foods and beverages, optics, electronics, paint shops, etc.)
- in supply air filtration for gas turbines and turbo-compressors on- and off-shore

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.

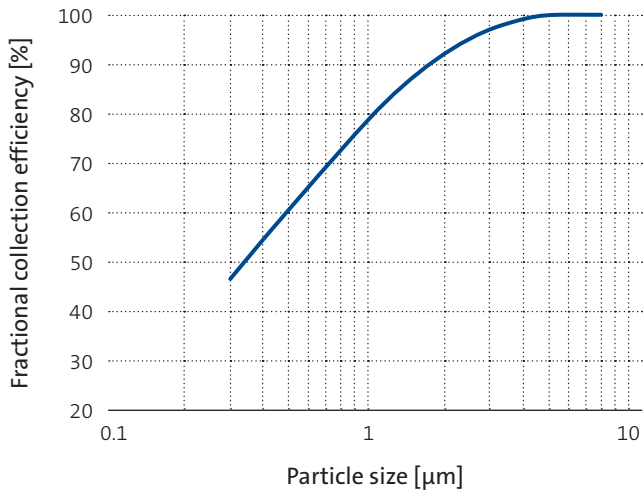
The special features

- In the supply air for turbomachinery, T90 pocket filters can be relied upon to arrest aggressive, abrasive particles, thus minimizing blade fouling and erosion, and upgrading the efficiency and availability of the turbomachinery involved.
- The pocket filters achieve **energy efficiency class A+**, thus **minimizing energy costs** and reducing CO₂ emissions.
- Thanks to their 12 pockets, T90 pocket filters are suitable for applications with the highest service life requirements.

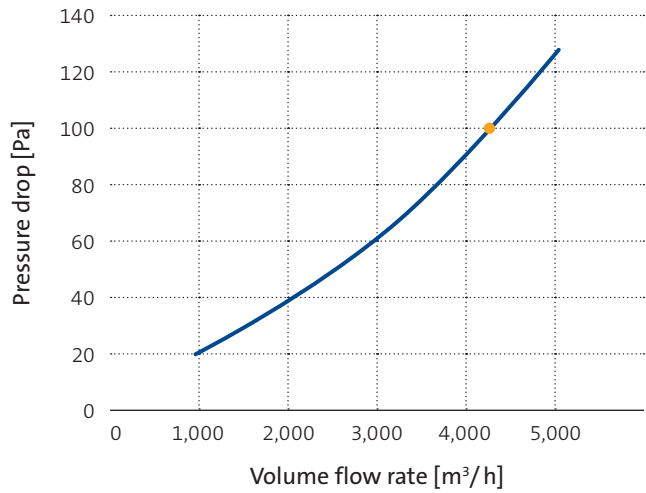
GEOMETRIES AVAILABLE		1/1	1/2
Nominal volume flow rate	m ³ /h	4,250	2,125
Front frame	mm	592 × 592	289 × 592
Overall depth	mm	650	650
Number of pockets		12	4
Filtering area	m ²	9	3.1
Weight, approx.	kg	3	1.1
Thermal stability	°C	70	70
Moisture-resistance (rel. hum.)	%	100	100
Suitable for standard mounting frame	mm	610 × 610	305 × 610

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		T 90
Nominal volume flow rate	● m³/h	4,250
Initial pressure drop	Pa	100
Class to ISO 16890		ISO ePM2,5 65%
Particulate matter efficiency		
ISO ePM1	%	54
ISO ePM2,5		66
ISO ePM10		86
Cut-off particle size	µm	5
Filter class to EN 779:2012		F 7
Recom. final pressure drop**	Pa	450
Bursting strength	Pa	> 6,000
Dust holding capacity approx. AC Fine / 800 Pa	g	3,000

* As part of the EUROVENT Certification, rated at 3,400 m³/h

**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.