

COMPACT POCKET FILTER T 90

viledon®

MAXIMUM PERFORMANCE FOR HYGIENIC AIR QUALITY



APPLICATION

- for filtering intake, exhaust and recirculating air in ventilation systems posing special safety requirements for arrestance capability:
 - 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.)

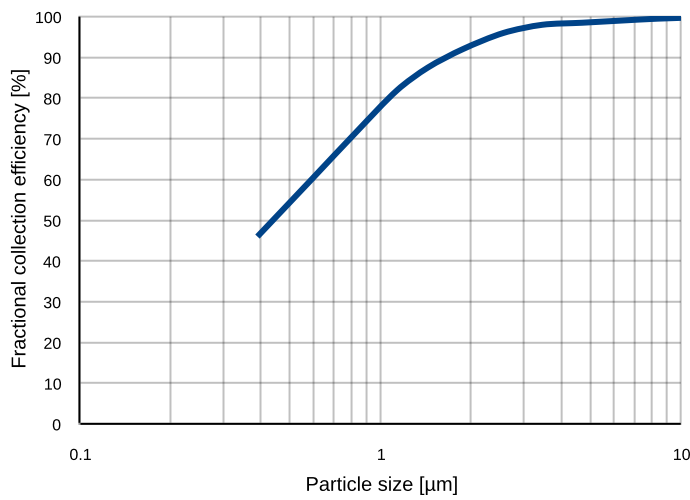


KEY DATA	T 90 1/1 8L	T 90 1/1 5L	T 90 5/6 6L	T 90 1/2 4L	T 90 1/2H 8L	T 90 1/4 4L
Article number	53555918	53555934	53560099	53560049	53562148	53560101
Dimensions (W x H x D) [mm]	592 x 592 x 650	592 x 592 x 650	492 x 592 x 650	289 x 592 x 650	592 x 289 x 650	289 x 289 x 650
Number of pockets	8	5	6	4	8	4
Filter class acc. to EN 779:2012	F7					
Filter class acc. to ISO 29461-1	ISO T7					
Class to ISO 16890	ISO ePM2,5 65%	ISO ePM2,5 60%	ISO ePM2,5 65%	ISO ePM2,5 65%	ISO ePM2,5 65%	ISO ePM2,5 65%
Particulate matter efficiency ISO ePM1 [%]	53	51	53	53	53	53
Particulate matter efficiency ISO ePM2,5 [%]	65	62	65	65	65	65
Particulate matter efficiency ISO ePM10 [%]	86					
Nominal volume flow [m³/h]	3,400	3,400	2,600	1,450	1,700	850
Face velocity [m/s]	2.5	2.5	2.3	2.2	2.5	2.5
Initial pressure drop [Pa]	80	120	80	80	80	80
Recommended final pressure drop [Pa]	450					
Bursting strength acc. to ISO 29461-3 [Pa]	>6000	>3000				
Dust holding capacity (AC Fine / 300 Pa) [g]	950	500	750	400	400	200

KEY DATA	T 90 1/1 8L	T 90 1/1 5L	T 90 5/6 6L	T 90 1/2 4L	T 90 1/2H 8L	T 90 1/4 4L
Dust holding capacity (AC Fine / 800 Pa) [g]	1,900	800	1,400	600	600	300
Filter area [m ²]	6.0	4.0	4.7	3.1	3.0	1.5
Weight [kg]	2.5	1.7	1.7	1.2	1.1	0.5
Thermal stability [°C]	70					
Moisture-resistance (rel. hum.) [%]	100					
Filter medium	Polyolefine					
Frame	PUR					

Fractional collection efficiency curve

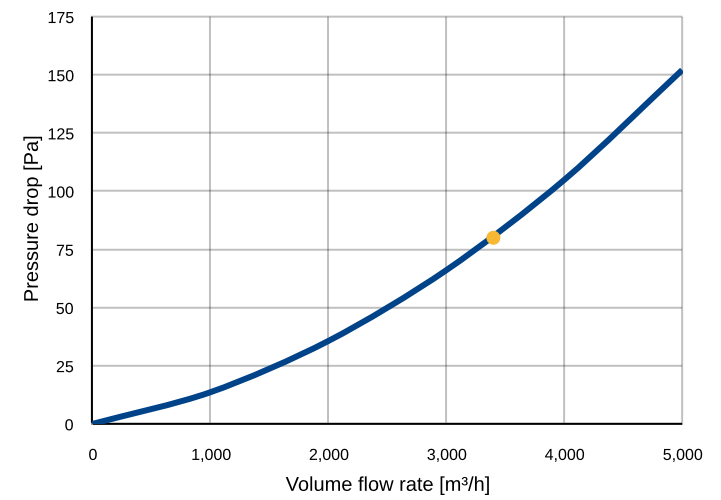
■ T 90 1/1 8L



Initial pressure drop curve

■ T 90 1/1 8L

● Nominal air flow [m³/h] : 3,400



MEDIA AND CONSTRUCTION CHARACTERISTICS

- unique inherent stiffness of the pockets due to high-performance filter medium from tear-resistant synthetic organic fibers, free of glass fibers.
- fulfils all relevant requirements to the ISO ePM1 class.
- meets all the criteria laid down in VDI Guideline 6022 “Hygiene Requirements for HVAC systems and units”.
- functional reliability due to leak-proof welded configuration of the filter pockets, foamed-in polyurethane front frame.
- aerodynamically optimized welded-in spacers (long-pocket filters only).
- dimensionally stable construction of the filter element as a whole.
- uniformly high quality of the filters is assured by our certified quality management system to ISO 9001, as well as by type-testing to EN 779 and ISO 16890.



FEATURES AND PLUSES

- highly robust and maximum performance gives high resilience and low pressure differences and excellent efficiency.
- high dust-holding capacity and moisture resistance results in a long service life and economic efficiency, ideally for the food and beverage industry.
- frame and filter medium are self-extinguishing to DIN 53438 (Fire class F 1).

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 information or figures given are subject to tolerances due to normal production fluctuations. Our explicit written confirmation is required in each case for the correctness of the information. Subject to technical alterations. You will find instructions on how to handle and dispose of loaded filters in our information on product safety and eco-compatibility

FREUDENBERG FILTRATION TECHNOLOGIES

Contact us

www.freudenberg-filter.com

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