G 35 COMPACT POCKET FILTERS

viledon®

RELIABLE, EFFECTIVE, ROBUST

FILTER TYPE	FILTER CLASS TO ISO 16890	FILTER CLASS TO EN 779:2012
G 35	ISO coarse 60 – 65%	G 3

VDI 6022 F1

The application

G 35 Compact pocket filters are used for supply, exhaust and recirculating air filtration in all kinds of ventilation systems, such as

- in industrial processes (metal processing, paper production, food and beverages, etc.)
- for exhaust and recirculating air filtration in paint shops
- for ventilating machine rooms and production areas
- as prefilters for turbomachinery

The characteristics and benefits

- As filter media, we use our progressively structured high-performance nonwovens made in-house from tear-resistant synthetic organic fibers.
- Low pressure drop and a high dust storage capacity guarantee a very long service life and high efficiency of the filter system.
- Thanks to their high dust-holding capacity and low pressure drop over the operating time, the G 35 series filters ensure reduced energy costs and lower CO_2 emissions.
- G 35 pocket filters are free of glass fibers, non-corroding and microbiologically inactive. They also meet all hygiene requirements for HVAC systems to the VDI 6022 standard.
- Maximized functional reliability thanks to the leak-proof welded configuration of the filter pockets, foamed-in polyurethane front frame, aerodynamically optimized welded-in spacers (long-pocket filters only), and dimensionally stable construction of the filter element as a whole.
- The 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.

The special features

- The robust filter series for heavy coarse dust loadings, even at high air flow rates.
- High functional reliability, even under extremely moist and wet operating conditions.
- Thanks to their shorter pockets, G 35 filters offer a space-saving solution for plants where the use of long-pocket filters would not be possible.

GEOMETRIES AVAILABLE		G 35 1/1 8L	G 35 1/1 5L	G 35 1/1 8M	G 35 1/1 5S	G 35 5/6 4L	G 35 1/2 3L	G 35 1/4 4L
Nominal volume flow rate	m^3/h	4,250	4,250	4,250	3,400	3,400	2,500	1,500
Front frame	mm	592 × 592	592 × 592	592 × 592	592 × 592	492 × 592	289 × 592	289 × 289
Overall depth	mm	650	650	510	330	650	650	650
Number of pockets		8	5	8	5	4	3	4
Filtering area	m^2	6.0	4.0	4.7	2.0	3.2	2.4	1.5
Weight approx.	kg	2.7	1.7	2.3	1.2	1.5	1.2	0.7
Thermal stability	°C				70			
Moisture-resistance (rel. hum.)	%				100			
Suitable for standard mounting frame	mm	610 × 610	610 × 610	610 × 610	610 × 610	508 × 610	305 × 610	305 × 305

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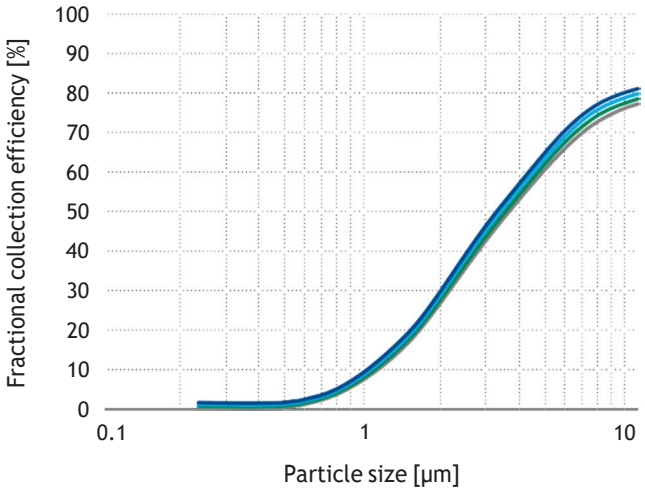
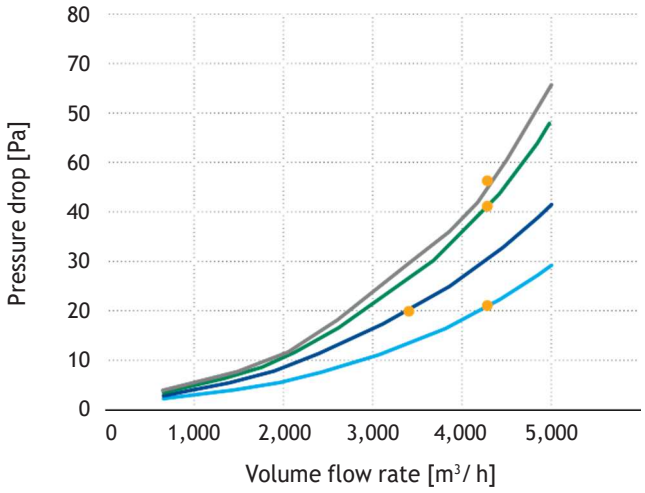
AIR AND WATER TECHNOLOGIES

TECHNICAL FILTER TEST DATA TO EN 779 AND ISO 16890

Fractional collection efficiency curves



Initial pressure drop curves



G 35 1/1 8L — G 35 1/1 5L — G 35 1/1 8M — G 35 1/1 5S — Nominal volume flow rate

KEY DATA		G 35 1/1 8L	G 35 1/1 5L	G 35 1/1 8M	G 35 1/1 5S
Nominal volume flow rate ●	m³/ h	4,250	4,250	4,250	3,400
Face velocity	m / s	3.2	3.2	3.2	2.5
Initial pressure drop	Pa	45	20	40	20
Class to ISO 16890		ISO coarse 60%	ISO coarse 60 %	I‹ O coarse 65%	ISO coarse 65%
Particulate matter efficiency ISO ePM10	%	41	42	43	44
Initial gravimetric arrestance		63	64	64	67
Cut-off particle size	µm	> 10			
Filter class to EN 779:2012		G 3			
Recom. final pressure drop*	Pa	250			
Dust holding capacity approx. AC fine / 300 Pa	g	9,000	6,500	7,500	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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