G 35 COMPACT POCKET FILTERS

viledon®

RELIABLE, EFFECTIVE, ROBUST

FILTER TYPE	FILTER CLASS TO ISO 16890	FILTER CLASS TO EN 779:2012
G 35 S	ISO coarse 65%	G 3
G 35 SL	ISO coarse 60%	G 3
G 35 SE	ISO coarse 65%	G 3
G 35 SEL	ISO coarse 60%	G 3

VDI 6022

F1

The application

G 35 S, G 35 SL, G 35 SE and G 35 SEL 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
- in general air-conditioning applications
- as prefilters for turbomachinery

Their 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.

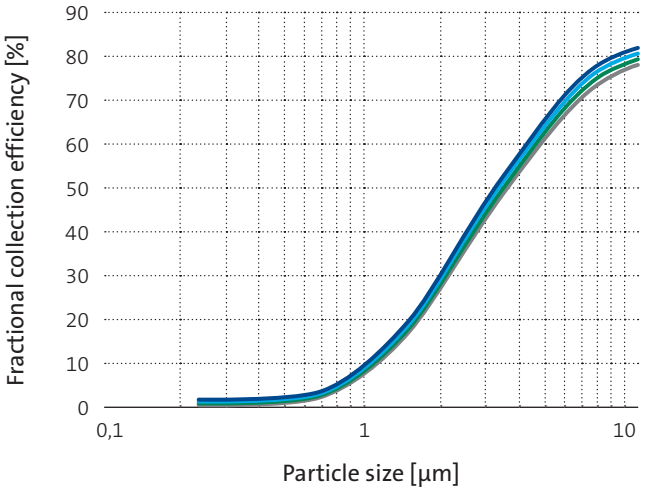
The special features

- 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.
- To optimize pre-filtration and/or when used in confined spaces, an **additional filter stage** can be inserted into an existing filter wall using the reverse-flow G 35 R short-pocket filter. The filter is attached to the main filter using clips. The required supporting basket, adhesive seals and mounting brackets are available as accessories.

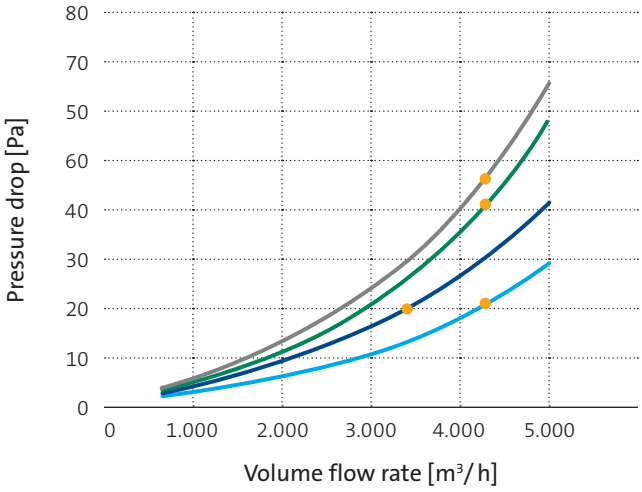
GEOMETRIES AVAILABLE		G 35 S 1/1	G 35 S 5/6	G 35 S 1/2	G 35 SL 1/1	G 35 SL 5/6	G 35 SL 1/2	G 35 SL 1/4	G 35 SE 1/1	G 35 SEL 1/1
Nominal volume flow rate	m^3/h	3,400	2,700	2,000	4,250	3,400	2,500	1,500	4,250	4,250
Front frame	mm	592 × 592	492 × 592	289 × 592	592 × 592	492 × 592	289 × 592	289 × 289	592 × 592	592 × 592
Overall depth	mm	330	330	330	650	650	650	650	510	650
Number of pockets		5	4	3	5	4	3	4	8	8
Filtering area	m^2	2.0	1.6	1.2	4.0	3.2	2.4	1.5	4.7	6.2
Weight approx.	kg	1.2	1.0	0.8	1.7	1.5	1.2	0.7	2.3	2.7
Thermal stability	°C	70	70	70	70	70	70	70	70	70
Moisture-resistance (rel. hum.)	%	100	100	100	100	100	100	100	100	100
Suitable for standard mounting frame	mm	610 × 610	508 × 610	305 × 610	610 × 610	508 × 610	305 × 610	305 × 305	610 × 610	610 × 610

TECHNICAL FILTER TEST DATA TO EN 779 AND ISO 16890

Fractional collection efficiency curves



Initial pressure drop curves



G 35 S — G 35 SL — G 35 SE — G 35 SEL — ● Nominal volume flow rate

KEY DATA		G 35 S 1/1	G 35 SL 1/1	G 35 SE 1/1	G 35 SEL 1/1
Nominal volume flow rate ●	m³/h	3,400	4,250	4,250	4,250
Face velocity	m/s	2.5	3.2	3.2	3.2
Initial pressure drop	Pa	20	20	40	45
Class to ISO 16890		ISO coarse 65%	ISO coarse 60%	ISO coarse 65%	ISO coarse 60%
Particulate matter efficiency ISO ePM10 Initial gravimetric arrestance	%	 44 67	 42 64	 43 66	 41 63
Filter class to EN 779:2012		G 3	G 3	G 3	G 3
Recom. final pressure drop*	Pa	250	250	250	250
Dust holding capacity approx. AC fine/300 Pa	g	3,000	6,500	7,500	9,000

* 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.

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