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POCKET FILTER, TYPE
PFS



TESTED TO VDI 6022

PFS

PREFILTERS OR FINAL FILTERS IN VENTILATION SYSTEMS

Pocket filters for the separation of fine dust

- Filter groups ISO ePM10, ISO ePM2.5 and ISO ePM1 (fine dust filters)
- Performance tested to ISO 16890
- Eurovent certification for fine dust filters
- Meets the hygiene requirements of VDI 6022
- Non-woven synthetic fibres, welded
- Enlarged filter area due to filter pockets
- Low initial differential pressure and high dust holding capacity
- Different numbers of pockets and pocket depths
- Quick installation and filter changing times due to easy, safe handling
- Fitting into standard cell frames for filter walls (type SIF) or into universal casings (type UCA) for duct installation

Optional equipment and accessories

- Front frame made of plastic or galvanised sheet steel

Application



Application

- Pocket filter made of non-woven synthetic fibres type PFS for the separation of fine dust
- Fine dust filter: Prefilter or final filter in ventilation systems

Nominal sizes

- B × H × T [mm]

Description



Construction features

- Frame depth of construction PLA: 25 mm
- Frame depth of construction GAL: 20, 25 mm
- Number of pockets: 3, 4, 5, 6, 7, 8

Materials and surfaces

- Filter media made of non-woven synthetic fibres
- Frame made of plastic or galvanised sheet steel

Standards and guidelines

- Test according to ISO 16890; international standard for general room air distribution; classification of arrestance efficiency based on the measured fractional arrestance efficiency, which is processed into a reporting system for the fine dust arrestance efficiency (ePM)
- For fine dust filters, the fractional arrestance efficiency of a certain size range is determined by aerosols (DEHS and KCl)
- The filters are classified into filter groups ISO ePM10, ISO ePM2.5 and ISO ePM1 depending on the tested values
- Construction PLA meets the hygiene requirements of VDI 6022, VDI 3803, DIN 1946 Part 4, ÖNORM H 6021 and ÖNORM H 6020, SWKI VA 104-01 and SWKI 99-3, and EN 16798

TEKNISK INFORMATION

TECHNICAL DATA, SPECIFICATION TEXT, ORDER CODE, RELATED PRODUCTS



Fractional efficiency ePM10 [%] to ISO 16890	60	75	–	–	–
Fractional efficiency ePM2.5 [%] to ISO 16890	–	–	–	70	75
Fractional efficiency ePM1 [%] to ISO 16890	–	–	60	–	–
Initial differential pressure [Pa] at nominal volume flow rate	50	70	125	140	175
Recommended final differential pressure [Pa]	250 – 350	250 – 350	250 – 350	250 – 350	250 – 350
Max. operating temperature [°C] for frames made of plastic	60	60	60	60	60
Max. operating temperature [°C] for frames made of galvanised sheet steel	90	90	90	90	90

Pocket filters PFS made of non-woven synthetic fibres as prefilters or final filters for the separation of fine dust in ventilation systems. Filter pockets provide a high dust holding capacity at a low initial differential pressure. Pocket filters made of non-woven synthetic fibres are available in standard and special sizes; variable number of pockets and pocket depth; filter groups ISO ePM10, ISO ePM2.5 and ISO ePM1 according to ISO 16890. Pocket filters made of non-woven synthetic fibres are Eurovent-certified and compliant with VDI 6022 in terms of hygiene.

Materials and surfaces

- Filter media made of non-woven synthetic fibres
- Frame made of plastic or galvanised sheet steel

Construction

- PLA: Frame made of plastic
- GAL: Frame made of galvanised steel

Materials and surfaces

- Filter media made of non-woven synthetic fibres
- Frame made of plastic or galvanised sheet steel

Sizing data

- Filter group [ISO 16890]
- Efficiency [%]
- Volume flow rate [m³/h]
- Initial differential pressure [Pa]
- Nominal size [mm]

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PFS	-	ePM1	-	60%	-	PLA	-	25	/	592 x 592 x 600	-	x	8
1		2		3		4		5		6			7

1 Type
PFS Pocket filters made of non-woven synthetic fibres

2 Classification
ePM10 Fractional efficiency ePM10 to ISO 16890
ePM2.5 Fractional efficiency ePM2.5 to ISO 16890
ePM1 Fractional efficiency ePM1 to ISO 16890

3 Efficiency [%]
to ISO 16890

4 Construction
PLA Frame made of plastic
GAL Frame made of galvanised steel

5 Frame depth [mm]
20 (Only with GAL)
25

6 Nominal size [mm]
B x H x T

7 Number of pockets

- 3
- 4
- 5
- 6
- 7
- 8

DIMENSIONS



①			Number of pockets	Filter class	②		③	④	⑤
B [mm]	H [mm]	T [mm]			qv [l/s]	qv [m³/h]	ΔpA [Pa]	m²	kg
592	592	600	6	ePM10 60%	944	3400	50	4,4	1,5
490	592	600	5	ePM10 60%	778	2800	50	3,7	1,3
287	592	600	3	ePM10 60%	472	1700	50	2,2	0,9
592	490	600	6	ePM10 60%	778	2800	50	3,6	1,4
592	287	600	6	ePM10 60%	472	1700	50	2,1	0,9
287	287	600	3	ePM10 60%	236	850	50	1,1	0,5
592	892	600	6	ePM10 60%	1417	5100	50	6,6	2
490	892	600	5	ePM10 60%	1167	4200	50	5,5	1,6
287	892	600	3	ePM10 60%	708	2550	50	3,3	1,1
592	592	600	6	ePM10 75%	944	3400	70	4,4	1,5
490	592	600	5	ePM10 75%	778	2800	70	3,7	1,3
287	592	600	3	ePM10 75%	472	1700	70	2,2	0,9
592	490	600	6	ePM10 75%	778	2800	70	3,6	1,4
592	287	600	6	ePM10 75%	472	1700	70	2,1	0,9
287	287	600	3	ePM10 75%	236	850	70	1,1	0,5
592	892	600	6	ePM10 75%	1417	5100	70	6,6	2
490	892	600	5	ePM10 75%	1167	4200	70	5,5	1,6
287	892	600	3	ePM10 75%	708	2550	70	3,3	1,1
592	592	600	8	ePM1 60%	944	3400	125	5,9	2
490	592	600	7	ePM1 60%	778	2800	125	5,1	1,7
287	592	600	4	ePM1 60%	472	1700	125	2,9	1,1
592	490	600	8	ePM1 60%	778	2800	125	4,9	1,7
592	287	600	8	ePM1 60%	472	1700	125	2,8	1,1
287	287	600	4	ePM1 60%	236	850	125	1,4	0,6
592	892	600	8	ePM1 60%	1417	5100	125	8,8	2,4
490	892	600	7	ePM1 60%	1167	4200	125	7,7	2,2

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①			Number of pockets	Filter class	②		③	④	⑤
B [mm]	H [mm]	T [mm]			qv [l/s]	qv [m³/h]	ΔpA [Pa]	m²	kg
287	892	600	4	ePM1 60%	708	2550	125	4,4	1,4
592	592	600	8	ePM2.5 70%	944	3400	140	5,9	2
490	592	600	7	ePM2.5 70%	778	2800	140	5,1	1,7
287	592	600	4	ePM2.5 70%	472	1700	140	2,9	1,1
592	490	600	8	ePM2.5 70%	778	2800	140	4,9	1,7
592	287	600	8	ePM2.5 70%	472	1700	140	2,8	1,1
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287	592	600	4	ePM2.5 75%	472	1700	175	2,9	1,1
592	490	600	8	ePM2.5 75%	778	2800	175	4,9	1,7
592	287	600	8	ePM2.5 75%	472	1700	175	2,8	1,1
287	287	600	4	ePM2.5 75%	236	850	175	1,4	0,6
592	892	600	8	ePM2.5 75%	1417	5100	175	8,8	2,4
490	892	600	7	ePM2.5 75%	1167	4200	175	7,7	2,2
287	892	600	4	ePM2.5 75%	708	2550	175	4,4	1,4

Dimensional drawing of PFS-...-PLA/...

