Pocket Filter

Type PFC

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TROX Social:

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General information

Application

- Pocket filters for the separation of coarse dust
- Coarse dust filter: Prefilter in ventilation systems for the separation of coarse dust

Classification

- Meets the hygiene requirements

Standards and guidelines

- Test according to ISO 16890; international standard for general ventilation and air conditioning; 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 (MERV))
- For coarse dust filters, the gravimetric efficiency is measured with synthetic dust
- The filters are classified into filter group ISO Coarse 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

Nominal sizes

- B × H × T [mm (in)]

Filter classes

Filter group
- ISO Coarse to ISO 16890 (comparable to ASHRAE 52.2 MERV ratings)

Filter class
- Coarse 60 % [MERV 8]
- Coarse 80 % [MERV 10]

Construction

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

Useful additions

- Filter wall (SIF)
- Universal casing (UCA)

Construction features

- Wedge-shaped filter pockets
- Frame depth of construction PLA: 25 mm (1 in)
- Frame depth of construction GAL: 20 mm (3/4 in), 25 mm (1 in)
- Number of pockets: 3, 5, 6

Materials and surfaces

- Filter media made of high-quality non-woven chemical fibres
- Frame made of plastic or galvanised sheet steel

Technical data

Gravimetric separation efficiency Coarse [%] according to ISO 16890	60	80
Estimated ASHRAE 52.2 Rating	MERV 8	MERV 10
Initial differential pressure [Pa (in. w.g.)] at nominal volume flow rate for T = 360 mm (14 3/16 in.)	35 (0.14)	-
Initial differential pressure [Pa (in. w.g.)] at nominal volume flow rate for T = 600 mm (23 5/8 in.)	30 (0.12)	40 (0.14)
Final differential pressure [Pa (in. w.g.)]	200 (0.80)	200 (0.80)
Max. operating temperature [ºC (ºF)] for frames made of plastic	60 (140)	60 (140)
Max. operating temperature [ºC (ºF)] for frames made of galvanised sheet steel	90 (194)	90 (194)

Changing the filter/Final differential pressure

The aim is to find the optimum of the longest possible service life with energetically low differential pressure and safe hygiene. A fixed, recommended value for the final differential pressure can tempt people to insist on keeping to this value, irrespective of its usefulness and today's standards with regard to, for example, energy saving, sustainability or resource conservation. To save costs and energy, we generally recommend the use of technically high-quality filters with low initial differential pressure and a flat differential pressure curve. In addition, the preferred criterion for a filter change should be the differential pressure. For further information, please refer to the installation and maintenance instructions.

Specification text

This specification text describes the general properties of the product. Texts for variants can be generated with our Easy Product Finder design programme.

Specification text

Pocket filters PFC made of non-woven chemical fibres for the separation of coarse dust when used as a prefilter, and for the separation of fine dust when used as a prefilter or final filter in ventilation systems. Filter pockets provide a high dust holding capacity at a low initial differential pressure. Pocket filters made of non-woven chemical fibres are available in standard and special sizes; variable number of pockets and pocket depth; filter group ISO Coarse according to ISO 16890 (comparable to ASHRAE 52.2 MERV ratings). Pocket filters PFC are compliant with VDI 6022 in terms of hygiene.

Materials and surfaces

- Filter media made of high-quality non-woven chemical fibres
- Frame made of plastic or galvanised sheet steel

Construction

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

Sizing data

- Filter group [ISO 16890 (MERV)]
- Efficiency [%]
- Volume flow rate [m³/h (cfm)]
- Initial differential pressure [Pa (in. w.g.)]
- Nominal size [mm (in.)]

Order code

PFC – Coarse - 60 % - PLA - 25 / 592 x 592 x 360 x 6
| | | | | | | |
1 2 3 4 5 6 7

1 Type
PFC Pocket filters made of non-woven chemical fibres

2 Classification
Coarse Gravimetric efficiency according to ISO 16890
(acc. to ASHRAE 52.2)

3 Efficiency
Efficiency [%] according to ISO 16890 or MERV
60% (MERV 8)
80% (MERV 10)

4 Construction
PLA Plastic frame
GAL Frame made of galvanised sheet steel

5 Frame depth [mm (in.)]
20 (3/4): (construction GAL only)
25 (1)

6 Nominal size [mm (in.)]
Width x height x depth

7 Number of Pockets
3, 5, 6

Order example: PFC-Coarse-60%-PLA-25/592x592x360x6

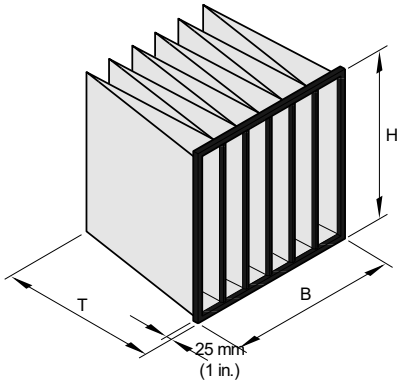
Type	PFC
Classification	Gravimetric efficiency according to ISO 16890
Efficiency	60%
Construction	Plastic frame
Frame depth [mm (in.)]	25
Nominal size [mm (in.)]	Width 592 (23 5/16), height 592 (23 5/16), depth 360 (14 3/16)
Number of pockets	6

PFC-Coarse-60%-PLA-25/592×592×360×6

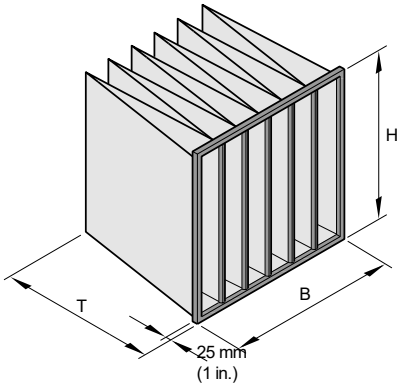
Classification	ISO Coarse to ISO 16890 (acc. to ASHRAE 52.2)
Efficiency	60 % (MERV 8)
Construction	Plastic frame
Frame depth	25 mm (in.)
Nominal size W x H x L	592 (23 5/16) × 592 (23 5/16) × 360 (14 3/16) mm (in.)
Number of pockets	6

Dimensions

Dimensional drawing of PFC-&-PLA/&



Dimensional drawing of PFC-&-GAL/&



Product specific data

Dimensions

Nominal size									Nominal volume flow rate			Initial differential pressure		Filter area		Weight	
B		H		T		Number of pockets	Filter class		qv			ΔpA		Area		kg	
[mm]	[in.]	[mm]	[in.]	[mm]	[in.]				[l/s]	[m3/h]	[cfm]	[Pa]	[in. w.g.]	[m²]	[sqft]	[kg]	[lb]
592	23 5/16	592	23 5/16	360	14 3/16	6	Coarse 60 %	MERV 8	944	3400	2001	35	0.14	2.7	29.1	0.8	1.8
490	19 5/16	592	23 5/16	360	14 3/16	5	Coarse 60 %	MERV 8	778	2800	1648	35	0.14	2.2	23.7	0.7	1.5
287	11 5/16	592	23 5/16	360	14 3/16	3	Coarse 60 %	MERV 8	472	1700	1000	35	0.14	1.3	14.0	0.5	1.1
592	23 5/16	490	19 5/16	360	14 3/16	6	Coarse 60 %	MERV 8	778	2800	1648	35	0.14	2.2	23.7	0.7	1.5
592	23 5/16	287	11 5/16	360	14 3/16	6	Coarse 60 %	MERV 8	472	1700	1000	35	0.14	1.3	14.0	0.5	1.1
287	11 5/16	287	11 5/16	360	14 3/16	3	Coarse 60 %	MERV 8	236	850	500	35	0.14	0.7	7.5	0.3	0.7
592	23 5/16	892	35 1/8	360	14 3/16	6	Coarse 60 %	MERV 8	1417	5100	3002	35	0.14	4.1	44.1	1.1	2.4
490	19 5/16	892	35 1/8	360	14 3/16	5	Coarse 60 %	MERV 8	1167	4200	2472	35	0.14	3.4	36.6	1	2.2
287	11 5/16	892	35 1/8	360	14 3/16	3	Coarse 60 %	MERV 8	708	2550	1501	35	0.14	2	21.5	0.7	1.5
592	23 5/16	592	23 5/16	600	23 5/8	6	Coarse 60 %	MERV 8	944	3400	2001	30	0.12	3.7	39.8	1.3	2.9
490	19 5/16	592	23 5/16	600	23 5/8	5	Coarse 60 %	MERV 8	778	2800	1648	30	0.12	3.1	33.4	1.2	2.6
287	11 5/16	592	23 5/16	600	23 5/8	3	Coarse 60 %	MERV 8	472	1700	1000	30	0.12	1.8	19.4	0.8	1.8
592	23 5/16	490	19 5/16	600	23 5/8	6	Coarse 60 %	MERV 8	778	2800	1648	30	0.12	3.1	33.4	1.1	2.4
592	23 5/16	287	11 5/16	600	23 5/8	6	Coarse 60 %	MERV 8	472	1700	1000	30	0.12	1.8	19.4	0.8	1.8
287	11 5/16	287	11 5/16	600	23 5/8	3	Coarse 60 %	MERV 8	236	850	500	30	0.12	0.9	9.7	0.5	1.1
592	23 5/16	892	35 1/8	600	23 5/8	6	Coarse 60 %	MERV 8	1417	5100	3002	30	0.12	5.6	60.3	2	4.4
490	19 5/16	892	35 1/8	600	23 5/8	5	Coarse 60 %	MERV 8	1167	4200	2472	30	0.12	4.6	49.5	1.7	3.7
287	11 5/16	892	35 1/8	600	23 5/8	3	Coarse 60 %	MERV 8	708	2550	1501	30	0.12	2.8	30.1	1.1	2.4
592	23 5/16	592	23 5/16	600	23 5/8	6	Coarse 80 %	MERV 10	944	3400	2001	40	0.16	3.7	39.8	1.3	2.9
490	19 5/16	592	23 5/16	600	23 5/8	5	Coarse 80 %	MERV 10	778	2800	1648	40	0.16	3.1	33.4	1.2	2.6
287	11 5/16	592	23 5/16	600	23 5/8	3	Coarse 80 %	MERV 10	472	1700	1000	40	0.16	1.8	19.4	0.8	1.8
592	23 5/16	490	19 5/16	600	23 5/8	6	Coarse 80 %	MERV 10	778	2800	1648	40	0.16	3.1	33.4	1.1	2.4
592	23 5/16	287	11 5/16	600	23 5/8	6	Coarse 80 %	MERV 10	472	1700	1000	40	0.16	1.8	19.4	0.8	1.8
287	11 5/16	287	11 5/16	600	23 5/8	3	Coarse 80 %	MERV 10	236	850	500	40	0.16	0.9	9.7	0.5	1.1
592	23 5/16	892	35 1/8	600	23 5/8	6	Coarse 80 %	MERV 10	1417	5100	3002	40	0.16	5.6	60.3	2	4.4
490	19 5/16	892	35 1/8	600	23 5/8	5	Coarse 80 %	MERV 10	1167	4200	2472	40	0.16	4.6	49.5	1.7	3.7
287	11 5/16	892	35 1/8	600	23 5/8	3	Coarse 80 %	MERV 10	708	2550	1501	40	0.16	2.8	30.1	1.1	2.4