TROX® TECHNIK
The art of handling air

POCKET FILTER, TYPE PFC

TESTED TO
VDI 6022

Conforms to VDI 6022

PFC

PREFILTERS IN VENTILATION AND AIR CONDITIONING SYSTEMS

Pocket filters for the separation of coarse dust

- Filter group ISO Coarse (coarse dust filter)
- Performance tested to ISO 16890
- Meets the hygiene requirements of VDI 6022
- Non-woven chemical 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

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

Nominal sizes

- B × H × T [mm]

Filter classes

Filter group

- ISO Coarse to ISO 16890

Filter class

- Coarse 60 %
- Coarse 80 %

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

Materials and surfaces

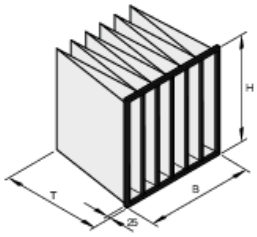
- Filter media made of high-quality non-woven chemical fibres
- Frame made of plastic or galvanised sheet steel

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)
- 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

TECHNICAL INFORMATION

Dimensional drawing of PFC-…-PLA/…



gravimetric separation efficiency Coarse [%] according to ISO 16890	60	80
Initial differential pressure [Pa] at nominal volume flow rate for T = 360 mm	35	-
Initial differential pressure [Pa] at nominal volume flow rate for T = 600 mm	30	40
Final differential pressure [Pa]	200	200
Max. operating temperature [°C] for frames made of plastic	60	60
Max. operating temperature [°C] for frames made of galvanised sheet steel	90	90

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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

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. 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]
- Efficiency [%]
- Volume flow rate [m³/h]
- Initial differential pressure [Pa]
- Nominal size [mm]

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

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

2 Classification
Coarse Gravimetric separation efficiency according to ISO 16890

3 Separation efficiency
Separation efficiency [%] according to ISO 16890

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

5 Frame depth [mm]
20(construction GAL only)
25

6 Nominal size [mm]
Width × height × depth

7 Number of pockets
3, 5, 6

Order example: PFC-Coarse-60%-PLA-25/592×592×360×6

Type	PFC
Classification	Gravimetric efficiency according to ISO 16890
Efficiency	60%
Construction	Plastic frame
Frame depth [mm]	25
Nominal size [mm]	Width 592, height 592, depth 360
Number of pockets	6