Activated carbon filters

ACFI

For the adsorption of gaseous odorous substances and contaminants

To improve the indoor air quality in offices, hotels, and airports

- Available with pre-filter fleece ePM1
- Compact construction style with low installation depth
- Fitting into standard cell frames for filter walls (type SIF)
- Fitting into universal casings (type UCA) for duct installation

General information

Application
- Filter insert for the adsorption of gaseous odorous substances and contaminants as well as hydrocarbons or traces of inorganic compounds from the supply and recirculated air

Nominal sizes
- B x H x T [mm]

Variants
- PF with pre-filter fleece ePM1 according to ISO 16890

Options
- FNU: Flat section seal on the upstream side
- FND: Flat section seal on the downstream side

Construction
Activated carbon filter insert:
- PLA: Frame made of plastic

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

Construction features
- As standard, construction PLA has no seal
- Some constructions are fitted with an optional flat seal on the downstream side or upstream side
- Construction PF with pre-filter fleece ePM1 according to ISO 16890

Materials and surfaces
- Granulated activated carbon with a backing layer of non-woven synthetic fibres
- Plastic frame

Technical data

Parameter	Value
Differential pressure at nominal volume flow rate without prefilter [Pa]	65
Differential pressure at nominal volume flow rate with prefilter [Pa]	100
Max. operating temperature [°C]	30
Maximum relative humidity [%]	60

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

Activated carbon filter inserts for the adsorption of gaseous odorous substances and contaminants hydrocarbons or traces of inorganic compounds from the supply and recirculated air.
Compact depth construction, suitable for systems with high volume flow rates and a requirement for long filter life.
Activated carbon filter inserts are available in all commercial sizes.
As standard, the filter inserts have no seal but can be provided with an optional flat seal on the upstream or downstream side.
Activated carbon filter inserts optionally with or without prefilter fleece ePM1 according to ISO 16890.

Materials and surfaces

- Granulated activated carbon with a backing layer of non-woven synthetic fibres
- Plastic frame

Construction

Activated carbon filter insert:

- PLA: Frame made of plastic

Sizing data

- Noxious gas
- Volume flow rate [m³/h]
- Contact time [s]
- Differential pressure [Pa]
- Nominal size [mm]

Order code

ACFI – PF – PLA / 592 × 592 × 292 / FNU
1 2 3 4 5

1 Type
ACFI Activated carbon filter insert

2 Variant
No entry: no prefilter
PF With prefilter ePM1 65% according to ISO 16890

3 Construction
PLA Frame made of plastic

4 Nominal size [mm]
B × H × T

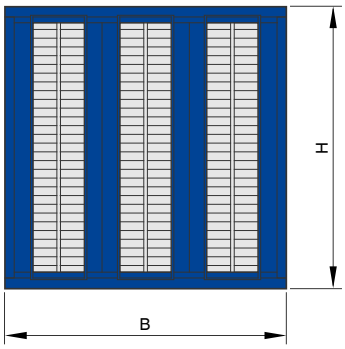
5 Seal
No entry: none
FNU Flat seal on the upstream side
FND Flat seal on the downstream side

ACFI–PF–PLA/592×592×292/FNU

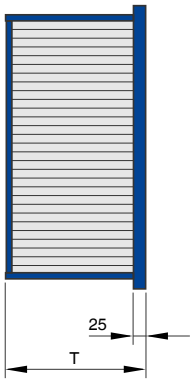
Variant	With prefilter ePM1 65% according to ISO 16890
Construction	Plastic frame
Nominal size	592 × 592 × 292 mm
Seal	Flat seal on the upstream side

Dimensions

ACFI-...-PLA/...



ACFI-...-PLA/...



Product specific data

①			②	③		④	⑤
B [mm]	H [mm]	T [mm]	Filter class	qv [l/s]	qv [m³/h]	Pa	kg
592	287	292	–	472	1700	65	3,5
592	490	292	–	778	2800	65	5,5
592	592	292	–	944	3400	65	6
592	287	292	ePM1 65 %	472	1700	100	3,5
592	490	292	ePM1 65 %	778	2800	100	5,5
592	592	292	ePM1 65 %	944	3400	100	6

① Nominal size ② With prefilter according to ISO 16890 ③ Nominal volume flow rate ④ Differential pressure ⑤ ~ Weight