



Tested to VDI 6022

Mini Pleat filters

MFCA



Compact construction for special applications

Final filters for the separation of suspended particles to meet the highest requirements

- Filter classes E11, H13
- Performance tested in accordance with EN 1822-1 and ISO 29463-2 to ISO 29463-5
- Filter media for special requirements, glass fibre papers with spacers made of thermoplastic hot-melt adhesive
- Low initial differential pressure due to ideal pleat position and largest possible filter area
- Meets the hygiene requirements of VDI 6022

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General information

Application

- Mini Pleat filter cartridges type MFCA for the separation of suspended particles such as aerosols, toxic dusts, viruses, bacteria from the supply and extract air in ventilation systems.
- Particulate filter: Main or final filter used for the most critical requirements of air cleanliness and sterility in areas such as industry, research, medicine, pharmaceuticals, and nuclear engineering

Special characteristics

- Leakage test, standard for all particulate filters of filter class H13

Nominal sizes

- D × H [mm]

Filter classes

Filter groups

- EPA according to EN 1822
- HEPA according to EN 1822

Filter classes

- E11
- H13

Construction

- AL: Casing made of aluminium

Construction features

- Cylindrical design

- Casing made of perforated sheet metal, aluminium
- As standard, the filter cartridge is fitted with a continuous seal on the upstream side

Materials and surfaces

- Filter media made of high-quality, moisture-resistant glass fibre papers, pleated
- Spacers provide a uniform spacing of the pleats
- Joint sealing compound made of permanently elastic two-component polyurethane adhesive
- Casing made of aluminium

Standards and guidelines

- Testing of particulate filters to 1822-1 and ISO 29463-2 to ISO 29463-5 (EPA, HEPA and ULPA particulate filters): European standard for the testing of filtration performance in the factory, particle counting method using a liquid test aerosol
- Uniform classification of particulate filters according to efficiency, using a test aerosol whose average particle size lies within the minimum efficiency (MPPS)
- Particulate filters are classified according to the values determined for the local filtration efficiency and the overall filtration efficiency as EPA (filter classes E10, E11, E12), HEPA (filter classes H13, H14) or ULPA (filter classes U15, U16, U17)
- Hygiene conformity in accordance with VDI 6022, VDI 3803, DIN 1946 Part 4, ÖNORM H 6020, SWKI VA 104-01 and SWKI 99-3 as well as EN 16798

Technical data

Filter class according to EN 1822	E11	H13
Efficiency [%] according to EN 1822	> 95	> 99.95
Initial differential pressure [Pa] at nominal volume flow rate	100	200
Recommended final differential pressure [Pa]	450	600
Max. operating temperature [°C]	80	80
Maximum relative humidity [%]	100	100

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

Mini Pleat filter cartridges MFCA for the separation of suspended particles such as aerosols, toxic dusts, viruses and bacteria from the supply and extract air in ventilation systems.

Use as particulate filters, i.e. main or final filters, for the most critical requirements of air cleanliness and sterility in areas such as industry, research, medicine, pharmaceuticals, and nuclear engineering. The filter media are made of high-quality, moisture-resistant glass fibre papers, with spacers made of thermoplastic hot-melt adhesive.

Low initial differential pressure due to ideal pleat position and largest possible filter area.

Mini Pleat filter cartridges are available in standard sizes, filter classes E11, H13.

As standard, Mini Pleat filter cartridges are fitted with a continuous seal. Hygiene conformity in accordance with VDI 6022.

Special characteristics

- Leakage test, standard for all particulate filters of filter class H13

Materials and surfaces

- Filter media made of high-quality, moisture-resistant glass fibre papers, pleated
- Spacers provide a uniform spacing of the pleats
- Joint sealing compound made of permanently elastic two-component polyurethane adhesive
- Casing made of aluminium

Construction

- AL: Casing made of aluminium

Sizing data

- Filter class [EN 1822]
- Volume flow rate [m³/h]
- Initial differential pressure [Pa]
- Nominal size [mm]

**Order code**

MFCA - H13 - AL / 175 × 280
| | | |
1 2 3 4

1 Type

MFCA Mini Pleat filter cartridge

2 Filter class

E11 Particulate filter according to EN 1822

H13 Particulate filter according to EN 1822

3 Construction

AL Casing made of aluminium

4 Nominal size [mm]

D × H

MFCA-H13-AL/175×180**Filter class**

H13 particulate filter according to EN 1822

Construction

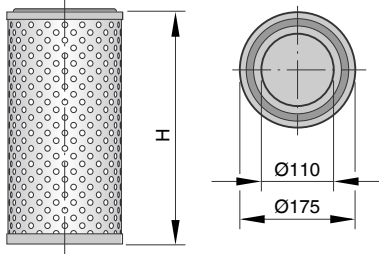
Casing made of aluminium

Nominal size

175 × 280 mm

Dimensions

Dimensional drawing of MFCA



Product specific data

①		Filter class	②		③	④	⑤
D [mm]	H [mm]		qv [l/s]	qv [m ³ /h]	ΔpA [Pa]	m ²	kg
175	177	E11	36	130	100	1,3	0,5
175	227	E11	47	170	100	1,7	0,8
175	280	E11	56	200	100	2,1	1,1
175	177	H13	36	130	200	1,3	0,5
175	227	H13	47	170	200	1,7	0,8
175	280	H13	56	200	200	2,1	1,1

① Nominal size ② Nominal volume flow rate ③ Initial differential pressure ④ Filter area ⑤ Weight