



## MFC

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### FOR LARGE VOLUME FLOW RATES AND LONG FILTER LIFE

Prefilters or final filters for the separation of fine dust, or particulate filters for the most critical requirements in ventilation systems

- Filter classes M6, F7, F9, E11, H13, H14
- Performance data to EN 779 or EN 1822
- Eurovent certification for fine dust filters
- Filter media for special requirements, □made of glass fibre papers, with spacers made of textile threads
- Low initial differential pressure due to ideal pleat position and largest possible filter area
- Compact depth construction
- Fitting into ducted particulate filters (types KSF, KSFS) and duct casings for particulate filters (type DCA)

## Application



### Application

- Mini Pleat filter cell type MFC for the separation of fine dust and suspended particles such as aerosols, toxic dusts, viruses and bacteria from the supply and extract air in ventilation systems with large volume flow rates and the requirement for long filter life
- Fine dust filter: Prefilter or final filter for the separation of fine dust 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 is standard for all particulate filters of classes H13, H14

## Description



### Filter classes

- Fine dust filters M6, F7, F9
- Particulate filters E11, H13, H14

### Construction

- MDF: Frame made of MDF
- GAL: Frame made of galvanised steel
- STA: Frame made of stainless steel

### Options

- Number of filter packs: 3, 5, 6, 10, 12
- HMS: Increased filter area
- FNU: Flat section seal on the upstream side
- FND: Flat section seal on the downstream side
- FNB: Flat section seal on both sides
- TGU: Test groove seal on the upstream side (only for filter classes H13, H14)
- CSU: Continuous seal on the upstream side
- CSD: Continuous seal on the downstream side
- CSB: Continuous seal on both sides
- WS: Without seal
- OT: Oil mist test (only for filter classes H13, H14)
- OTC: Oil mist test with certificate (only for filter classes H13, H14)

#### Useful additions

- Ducted particulate filter, available as one unit (KSF, KSFS) or as a filter unit system (KSFSSP)
- Duct casing for particulate filters (DCA)

#### Construction features

- Perimeter flat section seal on the upstream side
- Some constructions with optional foamed continuous seal or with a test groove seal (filter classes H13, H14) on the upstream side; the flat section or continuous seal can also be fitted on the downstream side or on both sides

#### 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
- Frame made of either MDF, galvanised sheet steel, or stainless steel

## INFORMACIÓN TÉCNICA

Efficacité fractionnelle ePM10 [%] à ISO 16890	55	-	-
Efficacité fractionnelle ePM1 [%] à ISO 16890	-	60	90
Pression différentielle initiale [Pa] au débit nominal	90	110	140
Pression différentielle finale [Pa]	300	300	300
Température de fonctionnement maximale [°C]	80	80	80
Humidité relative maximale[%]	100	100	100
Classe de filtration conforme à la norme EN 1822	E11	H13	H14
Efficacité [%] selon la norme EN 1822	> 95	> 99,95	> 99,995
Pression différentielle initiale [Pa] au débit nominal	125	250	250
Pression différentielle finale [Pa]	300	600	600
Température de fonctionnement maximale [°C]	80	80	80
Humidité relative maximale[%]	100	100	100

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

Use as fine dust filters, i.e. as prefilters or final filters in ventilation systems; or 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.

Compact depth construction, suitable for systems with high volume flow rates and a requirement for long filter life.

Filter medium is made of high-quality, moisture-resistant glass fibre papers, with spacers.

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

Mini Pleat filter cells are available in all commercial sizes, filter classes M6, F7, F9, E11, H13, H14.

As standard, Mini Pleat filter cells are fitted with a perimeter flat section seal on the upstream side.

Some constructions are available with an optional foamed continuous seal on one or both sides, with a test groove seal on the upstream side.

Mini Pleat filter cells used as fine dust filters are certified by Eurovent.

Special characteristics

- Leakage test is standard for all particulate filters of classes H13, H14

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
- Frame made of either MDF, galvanised sheet steel, or stainless steel

Construction

- MDF: Frame made of MDF
- GAL: Frame made of galvanised steel
- STA: Frame made of stainless steel

Sizing data

- Filter class
- Volume flow rate [m<sup>3</sup>/h]
- Initial differential pressure [Pa]
- Nominal size [mm]

**MFC-H13- -GAL/610 × 610 × 292-10/HMS/FNU/OT**  
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9