

# The art of handling air





## TYPE MFPCR

FOR THE MOST DEMANDING  
REQUIREMENTS ON THE PURITY OF  
INDOOR AIR, WORKSTATIONS, AND  
DEVICES

HEPA and ULPA filters as high-efficiency particulate filters for the separation of suspended particles in clean room systems. Used for industrial, research, medical, pharmaceutical, and nuclear engineering applications.

- Filter classes H14, U15, U16
- Performance data tested to EN 1822
- Meets the hygiene requirements of VDI 6022
- Filter media for special requirements, glass fibre papers with spacers made of thermoplastic hot-melt adhesive
- Perfect adjustment to individual requirements due to variable pleat depths
- Low initial differential pressure due to ideal pleat position and largest possible filter area
- Automatic filter scan test
- Fitting into filter fan units, clean room workbenches, or operating theatre ceilings

Application

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Description

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## TECHNICAL INFORMATION



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Mini Pleat filter panels MFPCR for the separation of suspended particles such as aerosols, toxic dusts, viruses and bacteria from the supply and extract air in clean room systems with controlled air cleanliness and airflow.

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.

Different pleat depths enable perfect adjustment to individual requirements.

Mini Pleat filter panels for clean room technology available in standard and special sizes, filter classes H14, U15, U16.

As standard, Mini Pleat filter panels for clean room technology are fitted with a perimeter continuous seal on the upstream side.

Some constructions are available with an optional seal on the downstream side or on both sides, or with a protection grid, fitting as required.

As standard, Mini Pleat filter panels for clean room technology are subjected to an automatic filter scan test.

## Special characteristics

- Ideal pleat geometry of the filter medium
- Low initial differential pressure at high filtration performance
- Low-turbulence airflow on the downstream side
- Filter scan test ensures leak-free construction as well as compliance with the stated efficiency and differential pressure

## Materials and surfaces

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

## Construction

- ALB: Frame made of extruded aluminium sections (depth 69 mm)
- ALC: Frame made of extruded aluminium sections (depth 78 mm)
- ALG: Frame made of extruded aluminium sections (depth 90 mm)

## Special construction:

- Filter frame with knife edge profile
- Filter frame with U-channel section, filled with a gel as fluid seal

## Sizing data

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



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## TROX GmbH

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Heinrich-Trox-Platz  
D-47504 Neukirchen-Vluyn  
Tel.: +49 (0)2845 202-0  
Fax: +49 (0)2845 202-265

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