### Application

- Mini Pleat filter panel type 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
- Particulate filter: Final filter for the most critical requirements of air cleanliness and sterility in areas such as industry, research, medicine, pharmaceuticals, and nuclear engineering

### 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

### Description

- **Filter classes**
  - Particulate filters H14, U15, U16

- **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

- **Options**
  - FT: Pleat depth
  - PU: Protection grid on the upstream side
  - PD: Protection grid on the downstream side
  - PB: Protection grid on both sides
  - CSU: Continuous seal on the upstream side
  - CSD: Continuous seal on the downstream side
  - CSB: Continuous seal on both sides
**Construction features**

- Perimeter continuous seal on the upstream side as standard
- Some constructions with optional continuous seal on the downstream side or on both sides
- Protection grid made of expanded metal, can be fitted on the downstream or upstream side or both sides as required

**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

### INFORMATION TECHNIQUE

<table>
<thead>
<tr>
<th>Filter class according to EN 1822</th>
<th>H14</th>
<th>U15</th>
<th>U16</th>
</tr>
</thead>
<tbody>
<tr>
<td>Efficiency according to EN 1829</td>
<td>≥98.996 %</td>
<td>≥98.996 %</td>
<td>≥98.996 %</td>
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<tr>
<td>Nominal face velocity</td>
<td>0.45 m/s</td>
<td>0.45 m/s</td>
<td>0.45 m/s</td>
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<tr>
<td>Initial differential pressure at nominal face velocity for frame ALB</td>
<td>110 Pa</td>
<td>130 Pa</td>
<td>-</td>
</tr>
<tr>
<td>Initial differential pressure at nominal face velocity for frame ALC</td>
<td>25 Pa</td>
<td>115 Pa</td>
<td>140 Pa</td>
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<tr>
<td>Initial differential pressure at nominal face velocity for frame ALC</td>
<td>85 Pa</td>
<td>100 Pa</td>
<td>120 Pa</td>
</tr>
<tr>
<td>Maximum operating temperature</td>
<td>80°C</td>
<td>80°C</td>
<td>80°C</td>
</tr>
<tr>
<td>Maximum relative humidity</td>
<td>100 %</td>
<td>100 %</td>
<td>100 %</td>
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</tbody>
</table>
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 [m³/h]
- Initial differential pressure [Pa]
- Nominal size [mm]
TROX Maroc

Ilot 69, Lot 1
Zone Franche d’exportation
9000 Tanger
Maroc
Tel. +212 5393-95157
Email: trox-ma@troxgroup.com

Online-Services

- TROX Academy
- Votre contact
- Formulaire de contact en ligne
- Recherche Produit A-Z
- Certificat TÜV Iso 9001

Service-Hotlines

Customer Service
T: +212 5223-69710
F: +212 6628-62900
Contact

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