AirSyntex
Air Filters

Our M6 AirSyntex Air Filters achieve ePM 10 65% delivering consistent energy efficient performance.

Tested according to ISO 16890 - EN 779:2012, AirSyntex are Eurovent approved and used widely across a number of environments including retail, commercial, healthcare, education, engineering, hotels, leisure and pharmaceutical.

AirSyntex Air Filters are the leading choice for a fully compliant, clean air solution.

THE KEY BENEFITS

1. **Excellent service life**
   The tight woven, ultra-fine fibre structure with two stage filtration ensures high dust holding capacity for longer service life with a low initial and average pressure drop, saving time, energy and reducing costs.

2. **Tested according to ISO 16890, EN 779:2012 and Eurovent approved**
   With third party Eurovent approval, ISO 16890 - EN 779:2012 certification you can be confident that AirSyntex will perform consistently at the specified energy and performance standards. In addition to this they are tested to fire prevention requirements DIN 53438-3 (F1).

3. **Environmentally friendly**
   AirSyntex are Oeko-Tex 100 approved, meaning they are free from harmful substances and skin irritant. The plastic frame option offers the additional benefit of being fully incinerable eliminating the need for landfill.

* Applies to plastic frames only.
MATERIAL CHARACTERISTICS

- Tested according to EN 779:2012, ISO 16890 and Eurovent approved
- Fire prevention requirements according to DIN53438-3 (F1)
- Oeko-Tex 100 approved, environmentally friendly so can be incinerated rather than going to landfill (when choosing plastic frames)
- Humidity resistant up to 100% r. h.
- Lacquer compatibility according to IPA-control
- Environmentally safe non-shedding synthetic fibres
- Temperature resistant up to a maximum of 70°C depending on type of frame

APPLICATIONS

For fine filtration in heat ventilation and air conditioning devices and plants of all kinds.
- Offices, hospitals, computing centres
- Pharmaceutical, fine-mechanical and food industry
- Prefiltration e.g. for HEPA filters

CLASSIFICATION

- Filter class M6 - ePM 10 65%

How to install pocket filters

Correct
Pockets stand vertically and are open to enable maximum dust holding.

Incorrect
Pockets fall, unable to hold the maximum dust capacity, with lower pockets running the risk of absorbing condensed water.

Technical data:

<table>
<thead>
<tr>
<th>Medium</th>
<th>Synthetic - Progressive microfibre</th>
</tr>
</thead>
<tbody>
<tr>
<td>Colour medium</td>
<td>Green</td>
</tr>
<tr>
<td>Frame</td>
<td>Plastic frame (25 mm)</td>
</tr>
<tr>
<td></td>
<td>Metal frame (20 or 25 mm)</td>
</tr>
<tr>
<td>Filter dimensions (W x H x D)</td>
<td>592 x 592 x 635 (mm)</td>
</tr>
<tr>
<td>Number of pockets</td>
<td>10</td>
</tr>
<tr>
<td>Filter area [m²]</td>
<td>7.5</td>
</tr>
<tr>
<td>Filter class</td>
<td>M6 - ePM 10 65%</td>
</tr>
<tr>
<td>Recommended nominal air flow (m³/h)</td>
<td>3400</td>
</tr>
<tr>
<td>Maximum air flow (m³/h)</td>
<td>4250</td>
</tr>
<tr>
<td>Initial pressure drop approx. (Pa) @ 3400 m³/3h</td>
<td>80</td>
</tr>
<tr>
<td>Recommended final pressure drop (Pa)</td>
<td>300</td>
</tr>
<tr>
<td>Average arrestance (%)</td>
<td>≥ 90</td>
</tr>
<tr>
<td>Average efficiency (0.4 μm) (%)</td>
<td>≥ 80 &lt; 90</td>
</tr>
<tr>
<td>Discharged efficiency of medium (0.4 μm) (%)</td>
<td>&gt; 35</td>
</tr>
<tr>
<td>Maximum humidity resistance (%)</td>
<td>100</td>
</tr>
<tr>
<td>Max. operating temperature (°C) - depending on type of frame</td>
<td>70</td>
</tr>
</tbody>
</table>
### Dimensions (mm) (width x height x depth)
- 287 x 287 x 360
- 287 x 592 x 360
- 287 x 892 x 360
- 490 x 592 x 360
- 490 x 892 x 360
- 592 x 287 x 360
- 592 x 490 x 360
- 592 x 892 x 360
- 287 x 287 x 500
- 287 x 592 x 500
- 287 x 892 x 500
- 490 x 592 x 500
- 490 x 892 x 500
- 592 x 287 x 500
- 592 x 490 x 500
- 592 x 892 x 500
- 287 x 287 x 635
- 287 x 592 x 635
- 287 x 892 x 635
- 490 x 592 x 635
- 490 x 892 x 635
- 592 x 287 x 635
- 592 x 490 x 635
- 592 x 892 x 635

### Number of pockets
- 3
- 3
- 3
- 5
- 5
- 6
- 6
- 3
- 3
- 5
- 5
- 6
- 6
- 5
- 5
- 5
- 5
- 8
- 8
- 10
- 10

### Filter area (m²)
- 0.6
- 1.3
- 1.9
- 2.1
- 3.2
- 1.2
- 2.1
- 0.9
- 1.8
- 2.7
- 3.0
- 4.5
- 1.7
- 2.9
- 5.4
- 1.8
- 3.8
- 5.7
- 6.0
- 9.1
- 3.6
- 6.2
- 11.3

### Nominal air flow (m³/h)
- 500 / 110Pa
- 1,000 / 110Pa
- 1,500 / 110Pa
- 1,600 / 110Pa
- 2,500 / 110Pa
- 900 / 110Pa
- 1,600 / 110Pa
- 700 / 110Pa
- 1,400 / 110Pa
- 2,100 / 110Pa
- 2,300 / 110Pa
- 3,500 / 110Pa
- 1,300 / 110Pa
- 2,300 / 110Pa
- 4,200 / 110Pa
- 800 / 80Pa
- 1,700 / 80Pa
- 2,600 / 80Pa
- 2,700 / 80Pa
- 4,100 / 80Pa
- 1,600 / 80Pa
- 2,800 / 80Pa
- 5,100 / 80Pa

### Performance Graph (592 x 592 x 365, 10 Pocket)

**Standard Frame Sizes & Pocket Lengths**

*Other variations available upon request.*