**Energy saving Bag Filters – Finedust**

HS-AirSynErgy bagfilters offers a unique fully synthetic filtermedia with a special waveform structure allowing virtually the double filtersurface with the same construction dimensions as usual bag filters. Due to be increased inner surface the pressure drop of HS-AirSynErgy filters is up to 30% lower in comparison to standard bag filters. The added surface also offers a dramatically increased dust holding capacity which increases the filters service time 30 - 60%.

HS-AirSynErgy only relies on mechanical filter effects and thereby fulfills the requirements of EN 779:2012.

HS-AirSynErgy serve as ultra high capacity pre-filters for following filterstages or as premium class main filters i.e. for fine dust filtration in comfort air HVAC or areas with high demands for air hygiene such as food production plants. HS-AirSynErgy also serve process air systems i.e. for combustion engines or sensitive machinery.

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**Type:**

<table>
<thead>
<tr>
<th>Class EN 779</th>
<th>HS-AirSynErgy 88</th>
<th>HS-AirSynErgy 95</th>
</tr>
</thead>
<tbody>
<tr>
<td>F7</td>
<td>ISO ePM1 60%</td>
<td>ISO ePM1 85%</td>
</tr>
<tr>
<td>Class ISO 16890</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Initial-(\Delta P) [Pa] at nominal air flow</th>
<th>75</th>
<th>145</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions (mm)</td>
<td>92</td>
<td>52</td>
</tr>
<tr>
<td># of pockets</td>
<td>8</td>
<td>6</td>
</tr>
<tr>
<td>Energy class acc. to Eurovent 4/21</td>
<td>Low energy consumption</td>
<td>High energy consumption</td>
</tr>
</tbody>
</table>

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**Frame**

- polystyrene 25 [mm] (combustible)
- galv. steel 25 [mm]
- polystyrene 20 [mm] (combustible)

**Operational conditions**

- max. rel. h. 100%, max. temp. 70°C

**Filtermedia**

- synthetik composit media with inner wave structure, offers appx. factor 2,5 more filtersurface than standard bag filter media.
- color: pure white with class id print.
- fulfills EN 779:2012.

**Combustible**

- Yes (Frame: plastic)

**Options**

- various sizes and shapes (e.g. slanted filter bags)
- foamed gasket onto front frame
- ePM1 60 - 70 % in energy class A++