**Ex-Protect Pocket Filter**

**G4 - F9 Coarse 60% - ePM 1 80%**

### Classification
- Filter class G4 - Coarse 60%
- Filter class M5 - ePM10 55%
- Filter class M6 - ePM10 65%
- Filter class F7 - ePM2.5 70%
- Filter class F8 - ePM1 65%
- Filter class F9 - ePM1 80%

### Characteristics
- Tested according to ISO 16890 / EN 779:2012
- Shatter-proof synthetic fibres
- Humidity resistant up to 100% r. h.
- Temperature resistant up to max. 80°C depending on type of frame
- Technical filter check conducted by TÜV Industrie Service GmbH acc. to Guideline 94/9/EG

### Applications
For the air filtration in aerial engineering plants with dangerous, combustible atmospheres (mixtures from air and burnable gases or steams)
- Application for Gas-Ex-Protection |
- Application for zones 1 and 2 also 21 or 22
- The Ex-Protect-Filter was tested according to following norms:
  - EN 1127-1, BGR 132/CENELEC Report R 044-001,
  - EN 13463-1 und EN 15198

### Versions
- Synthetic fibres with metal-clutch
- Standard sizes stitched
- With galvanized metalframe (inner and outer frame)
- Available in three earthing versions:
  - with grounding flag
  - with grounding pin
  - without earthing

### Product Overview
- **Conform to ATEX-guideline**
  - No filter charging
  - Declaration of manufacturer is delivered with each filter
- **3-layer filter media**
  - P: Pre filter grade
  - F: Fine filter grade
  - S: Synthetic layer on clean air side for stabilization
  - Best arrestance
  - Low pressure loss
  - High dust retention capacity
- **Special texture**
  - Electrically conductive media with integrated metal clutch
  - Utility pattern protection
  - Quality control of the complete production with internal filter test equipment and modern quality management tools

### Particle sizes (not true to scale)

<table>
<thead>
<tr>
<th>G</th>
<th>M</th>
<th>F</th>
<th>E</th>
<th>H</th>
<th>U</th>
</tr>
</thead>
<tbody>
<tr>
<td>G1-4</td>
<td>M5-6</td>
<td>F7-8</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>E10-12</td>
<td>M13-14</td>
<td>U15-17</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Clean air side**
Standard versions Ex-Protect
G4 - F9 Coarse 60% - ePM 1 80%

<table>
<thead>
<tr>
<th>Width x Height (mm)</th>
<th>Depth (mm)</th>
<th>Number of pockets</th>
<th>Filter area (m²)</th>
<th>Width x Height (mm)</th>
<th>Depth (mm)</th>
<th>Number of pockets</th>
<th>Filter area (m²)</th>
<th>Width x Height (mm)</th>
<th>Depth (mm)</th>
<th>Number of pockets</th>
<th>Filter area (m²)</th>
</tr>
</thead>
<tbody>
<tr>
<td>360</td>
<td>6</td>
<td>2.7</td>
<td>360</td>
<td>5</td>
<td>2.3</td>
<td>360</td>
<td>3.1</td>
<td>360</td>
<td>5.0</td>
<td>3.4</td>
<td>3.1</td>
</tr>
<tr>
<td>500</td>
<td>6</td>
<td>3.9</td>
<td>500</td>
<td>5</td>
<td>3.2</td>
<td>500</td>
<td>3.1</td>
<td>500</td>
<td>3.1</td>
<td>3.1</td>
<td>3.1</td>
</tr>
<tr>
<td>600</td>
<td>6</td>
<td>4.5</td>
<td>600</td>
<td>5</td>
<td>3.8</td>
<td>600</td>
<td>3.2</td>
<td>600</td>
<td>3.1</td>
<td>3.2</td>
<td>3.1</td>
</tr>
</tbody>
</table>

Polyester
G4 - M5 Coarse 60% - ePM 10 55%

<table>
<thead>
<tr>
<th>Width x Height (mm)</th>
<th>Depth (mm)</th>
<th>Number of pockets</th>
<th>Filter area (m²)</th>
<th>Width x Height (mm)</th>
<th>Depth (mm)</th>
<th>Number of pockets</th>
<th>Filter area (m²)</th>
<th>Width x Height (mm)</th>
<th>Depth (mm)</th>
<th>Number of pockets</th>
<th>Filter area (m²)</th>
</tr>
</thead>
<tbody>
<tr>
<td>360</td>
<td>6</td>
<td>2.9</td>
<td>360</td>
<td>5</td>
<td>2.5</td>
<td>360</td>
<td>3.0</td>
<td>360</td>
<td>5.0</td>
<td>3.4</td>
<td>3.0</td>
</tr>
<tr>
<td>500</td>
<td>6</td>
<td>4.1</td>
<td>500</td>
<td>5</td>
<td>3.4</td>
<td>500</td>
<td>3.0</td>
<td>500</td>
<td>3.0</td>
<td>3.1</td>
<td>3.0</td>
</tr>
<tr>
<td>600</td>
<td>6</td>
<td>4.8</td>
<td>600</td>
<td>5</td>
<td>4.0</td>
<td>600</td>
<td>3.2</td>
<td>600</td>
<td>3.2</td>
<td>3.1</td>
<td>3.2</td>
</tr>
</tbody>
</table>

Progressive Microfibre
M5 - F9 ePM 10 50% - ePM 1 80%

<table>
<thead>
<tr>
<th>Width x Height (mm)</th>
<th>Depth (mm)</th>
<th>Number of pockets</th>
<th>Filter area (m²)</th>
<th>Width x Height (mm)</th>
<th>Depth (mm)</th>
<th>Number of pockets</th>
<th>Filter area (m²)</th>
<th>Width x Height (mm)</th>
<th>Depth (mm)</th>
<th>Number of pockets</th>
<th>Filter area (m²)</th>
</tr>
</thead>
<tbody>
<tr>
<td>360</td>
<td>6</td>
<td>2.9</td>
<td>360</td>
<td>5</td>
<td>2.5</td>
<td>360</td>
<td>3.0</td>
<td>360</td>
<td>5.0</td>
<td>3.4</td>
<td>3.0</td>
</tr>
<tr>
<td>500</td>
<td>6</td>
<td>4.1</td>
<td>500</td>
<td>5</td>
<td>3.4</td>
<td>500</td>
<td>3.0</td>
<td>500</td>
<td>3.0</td>
<td>3.1</td>
<td>3.0</td>
</tr>
<tr>
<td>600</td>
<td>6</td>
<td>4.8</td>
<td>600</td>
<td>5</td>
<td>4.0</td>
<td>600</td>
<td>3.2</td>
<td>600</td>
<td>3.2</td>
<td>3.1</td>
<td>3.2</td>
</tr>
</tbody>
</table>

Ex-Protect Pocket Filter;
592 x 592 x 600; 8 pockets
F7 ePM 2.5 70%

<table>
<thead>
<tr>
<th>Initial pressure drop (Pa)</th>
<th>Average arrestance (%)</th>
<th>–</th>
</tr>
</thead>
<tbody>
<tr>
<td>Recommended final pressure drop (Pa)</td>
<td>Average efficiency (0,4µm) (%)</td>
<td>80 - 90</td>
</tr>
<tr>
<td>Nominal air flow rate (m³/h)</td>
<td>Filter area (m²)</td>
<td>6.5</td>
</tr>
</tbody>
</table>

Initial pressure drop (Pa) | 110 |

All information, images and pictures are property of Concept Filter Products Ltd. and are provided to the best knowledge. However Concept Filter Products Ltd. does not guarantee the completeness or correctness and cannot be held responsible for damages caused by the recipient’s usage or his confidence in the completeness or correctness of the information. The stated data contains average values with tolerances as a result of production irregularities; therefore it does not relieve the recipient of own examination and tests. For the completeness of the information in particular cases, an explicit and written affirmation through Concept Filter Products Ltd. is required. Furthermore, the data serves as a service description and cannot be interpreted as warranted properties or durabilities.