Dust filter cartridge
160 NKC
Ø 160 mm, installation on cleaned side

1. Features

This Filtration Group cartridge meets modern demands for waste reduction and sustainability. Thanks to the reusable inner frame, only plastics parts that are suitable for incineration need to be exchanged if the cartridge is replaced. All metal parts can be reused again. The cartridge can optionally also be supplied with a fixed (non-reusable) inner frame. Star-pleated Filtration Group dust filter cartridge pleats are used to separate dust from gases. The conical cartridge is perfused from outside to inside. The retained dust is cleaned by a air jet pulse. The cartridge performance has been enhanced by the improved cleaning properties and the optimized flow conditions resulting from its conical design.

Regular, extensive material and performance tests are the key to the consistently high quality of Filtration Group dust cartridges. Applications tests both on the customer’s site and in our own facilities form the backbone of affordable and reliable products. The results of these tests form the backbone of innovative products, mature production methods and unmatched operational reliability.

Characteristics
- Very high loading capacity
- High stability
- Excellent cleaning properties
- Optimized flow conditions
- Universally suitable
- Large filter surface
- Wide range of optimized filter media
- Optimized energy efficiency
- Worldwide distribution
2. Technical Data

Materials
Inner core: Galvanized steel (standard)
or stainless steel V4A - AISI 316
End caps: PA66 GF25 (standard)
or stainless steel V4A - AISI 316
Seal: EPDM or silicone foam
Filter media
Ti 07/1 - Electrostatical conductive polyester fleece with PTFE membrane
Ti 08 - Electrostatical conductive polyester fleece, aluminium coated
Ti 15 - Polyester fleece
Ti 19 - Cellulose/polyester carrier with PP meltblown
Other filter materials on request

Cleaning
Nozzle: Multi-jet nozzle G ¾
Cleaning pressure: 4 bar to 6 bar (max. 7 bar)
Differential pressure: max. 18 mbar
Compressed air consumption per cleaning pulse: 23 l (fad)
Compressed air reservoir capacity: approx. 5 l per cartridge

Technical data is subject to change without notice!

3. Type number key and dimensions

3.1 Type number key

<table>
<thead>
<tr>
<th>Type</th>
<th>Series</th>
<th>Filter media</th>
<th>Filter surface</th>
<th>Material</th>
<th>Design</th>
<th>Example</th>
</tr>
</thead>
<tbody>
<tr>
<td>852</td>
<td>029</td>
<td>Ti 07/1</td>
<td>1.5/2.2</td>
<td>V4A</td>
<td>-</td>
<td>Example</td>
</tr>
<tr>
<td>852</td>
<td>953</td>
<td>Ti 08</td>
<td>2.5/3.5</td>
<td>-</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>852</td>
<td>828</td>
<td>Ti 15</td>
<td>3.0/4.2</td>
<td>-</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>852</td>
<td>653</td>
<td>Ti 19</td>
<td>2.5/3.5</td>
<td>-</td>
<td>-</td>
<td></td>
</tr>
</tbody>
</table>

3.2 Dimensions

<table>
<thead>
<tr>
<th>Type designation</th>
<th>Length L [mm]</th>
<th>Filter surface [m²]</th>
<th>max. vol. flow* [m³/min]</th>
<th>Start pressure loss** [Pa]</th>
<th>max. operating temp.*** [°C]</th>
<th>Remark</th>
</tr>
</thead>
<tbody>
<tr>
<td>852 029</td>
<td>600</td>
<td>1.5/2.2</td>
<td>225</td>
<td>&gt; 250</td>
<td>100</td>
<td>Encapsulated inner frame</td>
</tr>
<tr>
<td>852 953</td>
<td>1000</td>
<td>2.5/3.5</td>
<td>360</td>
<td></td>
<td></td>
<td>Reusable inner frame</td>
</tr>
<tr>
<td>852 828</td>
<td>1200</td>
<td>3.0/4.2</td>
<td>430</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>852 653</td>
<td>1000</td>
<td>2.5/3.5</td>
<td>360</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* Depending on the air to media ratio of 1.7 m³/m² min
** Depending on volume flow and filter
*** Depending on media/materials, higher temperature ranges on request
4. Installation

The dust filter cartridge is fastened to the filter plate on the cleaned side by means of retainers.
A hole with a diameter of 162 mm must be drilled in the filter plate.

5. Accessories

<table>
<thead>
<tr>
<th>Order number</th>
<th>Designation</th>
</tr>
</thead>
<tbody>
<tr>
<td>79741240</td>
<td>MJD 16 00 clean gas A1 VP</td>
</tr>
<tr>
<td>70390250</td>
<td>MJD 16 00 clean gas V2 VP</td>
</tr>
<tr>
<td>70343824</td>
<td>Nozzle M 16 ¾, aluminum OZB</td>
</tr>
<tr>
<td>70366440</td>
<td>Nozzle M 16 ¾, 1.4301 OZB</td>
</tr>
</tbody>
</table>
6. Cleaning

We recommend cleaning the dust filter cartridge with the Filtration Group multi-jet nozzle. The optimized geometry of the multi-jet nozzle guarantees excellent cleaning results with a significantly lower noise level. The multi-jet nozzle is available from Filtration Group in aluminum or stainless steel. It can also be purchased as part of the Filtration Group MJD cleaning unit, comprising the nozzle, a stirrup and various small assembly components. The stirrup maintains an optimum distance.

7. Design

Please contact us for detailed technical information, any open questions and for general expert advice. Completion of the relevant questionnaire would facilitate in the coordination of all important parameters. Comprehensive documentation on our product range, cleaning units and cartridges can be provided.