Dust collector
SFK-02/03/11 FL

Circular construction

1. Features

This unit is manufactured from sturdy steel sheets. The individual housing parts are fastened together by bolted flanges.

Characteristics

- Conical cartridges for maximum performance
- Compact, save-spacing design
- Modular system
- Easy to maintain
- High separation efficiency
- Low noise level
- Efficient, energy-saving cleaning with jet pulse
- Volume flow range 450 to 7,000 m³/h
- Filter surfaces 9 to 70 m²
- Worldwide distribution
2. Versions

A, Flanged body-type filter with fan  
S1, with acoustic hood and dust bucket  
S6, with cone and fan

3. Modules and accessories

1. Acoustic hood  
2. Blow-out pipe end  
3. Fan  
4. Maintenance cover, acoustic hood  
5. Compressed air distributor  
6. Membrane valves  
7. Pressure vessel  
8. Clean air section  
9. Filter controller, time or differential pressure-controlled  
10. Untreated gas chamber  
11. Maintenance door, dirt air section  
12. Cartridge  
13. Dust section  
14. Dirt air inlet  
15. Dust collector hopper with rack  
16. Dust bucket  
17. Multi-jet nozzle  
18. Thread adapter  
19. Seal  
20. Cartridge, connection thread

4. Functional description

The dust-laden air flows tangentially into the dust section (13). This assures a uniform flow distribution and enables coarse dust particles to be pre-separated. As it flows through the cartridges (12), fine dust is separated on the surface. The filter cake is cleaned off at fixed intervals, depending on the dust load and the filter surface load. The membrane valves (6) are controlled by means of the electronic controller (9) mounted on the side of the filter housing. The detached dust drops down to the bottom and is collected in the dust bucket (16). The cleaned air flows into the clean air section (8) and is discharged at the top of the filter via the blow-out nozzle (2). The fully automatic compressed air cleaning system comprises a pressure vessel with membrane valves (6), an electronic controller (9) and the cleaning nozzles (17).
5. Technical Data

**Dust collector**

Housing material: 1.0037 (DIN EN 10025) stainless steel optional

Surface protection: EPS powder coating RAL 7035 light grey

Max. operating pressure: -50 mbar

Max. operating temperature: 70 °C without acoustic hood

40 °C with acoustic hood

Dust bucket capacity: 60 l

**Surface protection**:

Max. operating pressure: 50 mbar

Max. operating temperature: 70 °C without acoustic hood

40 °C with acoustic hood

**Cartridges**

SFK-02: Type 852 903 Ti ...* (120 NK data sheet)

SFK-03: Type 852 904 Ti ...* (120 NK data sheet)

SFK-11: Type 852 054 Ti ...* (160 NK data sheet)

**Cleaning**

Cleaning system: Filtration Group multi-jet nozzle

Medium: Oil, dust and condensate-free compressed air at operating temperature

Compressed air connection: G½ female

Compressed air consumption: SFK-02/03: Approx. 35 l (fad)

SFK-11: Approx. 80 l (fad)

Pulse duration: 0.2 s

Controller: SFK-02/03: Time controlled (MFS-05 data sheet)

SFK-11: Differential pressure-controlled (MFS-05 dp data sheet)

Valves: Electric membrane valve

* Filter media depends on application

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### 6. Dimensions

<table>
<thead>
<tr>
<th>Type designation</th>
<th>Volume flow* [m³/h]</th>
<th>No. of cartridges</th>
<th>Cartridge length [mm]</th>
<th>Weight** [kg]</th>
<th>a</th>
<th>b</th>
<th>c</th>
<th>d</th>
<th>e</th>
<th>f</th>
<th>g***</th>
<th>h</th>
<th>i</th>
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</thead>
<tbody>
<tr>
<td>SFK-02 009 DN-056...</td>
<td>450-1080</td>
<td>9</td>
<td>600</td>
<td>120</td>
<td>560</td>
<td>760</td>
<td>1230</td>
<td>1070</td>
<td>260</td>
<td>1005</td>
<td>3095</td>
<td>900</td>
<td>200</td>
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<td>630-1530</td>
<td>10</td>
<td>1000</td>
<td>160</td>
<td>710</td>
<td>1040</td>
<td>1230</td>
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<td>320</td>
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<td>250</td>
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<tr>
<td>SFK-02 015 DN-071...</td>
<td>750-1800</td>
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<td>600</td>
<td>210</td>
<td>1050</td>
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<td>3555</td>
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<td>1520</td>
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<td>SFK-11 012 DN-100...</td>
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<td>420</td>
<td>540</td>
<td>1290</td>
<td>1770</td>
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<td>400</td>
<td>350</td>
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</tbody>
</table>

* These values may vary depending on the nature of the dust, the composition of the air and the filter media

** Weight of S1 type excluding fan and acoustic hood

*** These values may vary depending on the size of the fan

Technical data is subject to change without notice!
7. Ordering example

<table>
<thead>
<tr>
<th>Type</th>
<th>No. of cartridges</th>
<th>Size</th>
<th>Version</th>
<th>Flanged body-type filter</th>
<th>Bucket</th>
<th>Bucket and fan</th>
<th>Product separator with cone</th>
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<td>SFK-02</td>
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</table>

8. 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 elements can be provided. For more information about installation and operation, please refer to our Instruction Manual.