FS flat bag dust collector

Suitable for larger industrial plants with hot gas applications

The functional unit of a FS flat bag dust collector comprises of the hood for dust-laden gas, the filter casing, the dust collection hopper with support structure and discharge unit.

The dust collectors flat bags are arranged horizontally in the dirty gas chamber and the connection with the slotted wall by a clamping frame with leg springs is airtight. Air flow direction through the filter is from top to bottom (down-flow principle).

The gas enters the clean gas chamber of the filter through the flat bag. During this process, the dust is held back by the filter media and forms a filter cake which is important for dust filtration. The fully programmable dedusting process is activated after a specific time period and the dust is cleaned out of the filter flat bag. The dust falls into the collecting hopper and is conveyed out via the dust conveyor unit.

Air Volume Range: 10 000 to 250 000 m³/h (10,000 to 200,000 CFM)
-Filtering surface per filter house: 100 to 2500 m² (1,076 - 26,900 ft²)
-Modular construction
-Careful cleaning
-Low residual dust content due to special filter media
-Usable for temperatures up to 250 °C (482 °F)

Intelligent air cleaning system
The cleaning air fan and valve are located outside the filter. The cleaning air valve is connected to the mobile cleaning nozzle via a flexible hose. The cleaning nozzle is driven by a maintenance free rope-and-chain drive. It is positioned through the indexing mechanism. Use of the medium pressure system effectively eliminates peak dust emissions during the cleaning cycle. The mechanical element for the indexing mechanism is integrated into the deflecting station.

Advantages
- Offline effect
  - Low difference between gross and net surface.
  - No dust is drawn to adjacent bags.
  - Low residual dust content.
  - Very high dust collection efficiency
  - Fine dust (PM10, PM 2.5)
Technical parameters:
- Pre-assembly of the filter in workshop.
- Compact, modular design.
- Small space requirements.
- Sort assembly time = low assembly costs.
- Leak-proof welded construction.
- Low maintenance costs.
- High availability.
- Offline cleaning during full-load operation.
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FS flat bag dust collector

<table>
<thead>
<tr>
<th>Product name</th>
<th>FS flat bag dust collector</th>
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<tbody>
<tr>
<td>Installation</td>
<td>Outdoor</td>
</tr>
<tr>
<td>Suitable for combustible dust</td>
<td>True</td>
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<tr>
<td>Filter cleaning method</td>
<td>Reverse air pulse</td>
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<tr>
<td>Capacity (max airflow cfm)</td>
<td>250000</td>
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<tr>
<td>Operating Temperature</td>
<td>Up to 482 F (250 C)</td>
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<tr>
<td>Filter type</td>
<td>Bag</td>
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<tr>
<td>Weight (lbs)</td>
<td>2950</td>
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</table>
FS flat bag dust collector

<table>
<thead>
<tr>
<th>Model</th>
</tr>
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<tbody>
<tr>
<td>FS620-075-90</td>
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</tbody>
</table>
FS flat bag dust collector

Dimension for filter FS 620
Energy efficient medium pressure cleaning
FS flat bag dust collector

Explanation of number:
1. Quantity of bags if fully equipped
2. Filter size
3. Length of the filter bags: 22=2.2m
4. Quantity of superimposed filter range
5. Cleaning method: S= clean air
6. Product name: F= cassette-type filter
7. - Filter housing made of 3 mm sheet metal
   - Hood 600 mm high without inserts
   - Without special construction and without ladder

### Types FS 620

<table>
<thead>
<tr>
<th>Type</th>
<th>Length mm (m)</th>
<th>Surface m² (ft²)</th>
<th>Weight kg (lbs)</th>
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</thead>
<tbody>
<tr>
<td>FS 520.5/7.5/50</td>
<td>250, 300, 400</td>
<td>250, 300, 400</td>
<td>250, 300, 400</td>
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<tr>
<td>FS 520.5/7.5/100</td>
<td>250, 300, 400</td>
<td>250, 300, 400</td>
<td>250, 300, 400</td>
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</table>

Custom made filter solutions

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FS Cassette-type-filter with air purging

Explanation of component numbers:
A. Dirty gas entry
B. Cleaning air inlet
C. Clean gas exit
D. Dust discharge

1. Dirty gas hood
2. Filter bag support
3. Cleaning car/cleaning nozzle
4. Filter bag with spacer mat
5. Cleaning gas filter chamber
6. Dirty gas chamber
7. Dust collection hopper with screw conveyor
8. Deflection station with indexing disc
9. Inspection door collecting unit
10. Platform with ladder
11. Drive station for cleaning car
12. Telescopic pipe
13. Slotted wall with clamping frame
14. Cleaning air fan
15. Cleaning air damper