F Series - F250-F320 - F380-F450

INDOOR FILTERS
ELEGANT. COMPACT. SILENT

F-Series, models F250, 320, 380 and 450 are a reliable and compact solution for dust producing processes. Its compact design suits any environment, even inside production facilities. With its compact design to suit any environment, even inside production facilities, its highly effective operating in just a small space.

Manufactured from heavy-gauge corrosion resistance steel, with a hard-wearing painted finish, designed to protect and look good for many years of service.

For the capture and filtration of intermediate dust loading of fine and medium dust particles, equipped with:

- settling chamber for the decanting of shreds into the filtering unit,
- filtering media in antistatic polyester (needle felt sleeves 500 gr/m², cartridges 270 gr/m²)
- automatic programmable counter current compressed air cleaning system;
- continuous discharge of the shavings and dust into handy wheeled metal bins with sight glass to check the filling level.

F-Series is designed to operate in negative pressure, with high suction efficiency and maximum safety against fire and explosion, these units also feature a built-in fire extinguishing water ring. The high-efficiency centrifugal fan with backward curved-blades, fitted in a soundproofed compartment inside the unit, makes it possible to achieve higher negative pressure values than other filters on the market, while only producing low noise.

Advantages

Compact design . High performance
Quiet operation . Low-energy consumption
Full air-recirculation (no pressure/heat-loss)
Self-contained . Mobile

Fan
Professional electro fan in a room separated from the filtering unit. Completely soundproof.

Electric Panel
CE and UL/CSA Electric Panel

IP65 Electric Panel
IP65 Electric Panel

Filter Sleeves
F250 / F320 antistatic filtering sleeves

Filter Cartridges
F380 / F450 antistatic filtering cartridges

Filter Cleaning
Filtering unit cleaning by compressed air.

Cleaning
Venturi system, perfect cleaning.

Sprinkler

Waste Collection
Wheeled waste collecting bins. Vacuum system to hold the plastic bag.
**PRINCIPLE OF OPERATION**

1. Dusty air inlet
2. Dust collecting bin
3. F380 / F450 Antistatic filtering cartridges
4. F380 / F450 Antistatic filtering sleeves
5. Filtered air outlet
6. Electric panel
7. Compressed air lung for filter cleaning
8. Air Inlet

Contact us: 01622 791414

Old Mill Lane | Aylesford | Kent | ME20 7DT | t: 01622 791414 | e: info@fercell.com

www.fercell.com
## TECHNICAL DATA

<table>
<thead>
<tr>
<th>MODELLO</th>
<th>F250</th>
<th>F320</th>
<th>F380</th>
<th>F450</th>
</tr>
</thead>
<tbody>
<tr>
<td>AIR-FLOW RATE [M3/H]</td>
<td>3900 m3/h</td>
<td>5750 m3/h</td>
<td>8000 m3/h</td>
<td>12000 m3/h</td>
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<tr>
<td>PRESSURE [MM H2O]</td>
<td>3010Pa</td>
<td>3300Pa</td>
<td>3785Pa</td>
<td>2750Pa</td>
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<tr>
<td>QUANTITY OF BINS</td>
<td>200 L</td>
<td>200 L</td>
<td>200 L</td>
<td>200 L 3</td>
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<tr>
<td>FAN POWER [KW]</td>
<td>5.5</td>
<td>7.5</td>
<td>11</td>
<td>15 20hp</td>
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<tr>
<td>FILTERING SURFACE AREA [M2]</td>
<td>20</td>
<td>30</td>
<td>144</td>
<td>162 1743 sqft</td>
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<tr>
<td>QUANTITY OF FILTERING ELEMENTS</td>
<td>40</td>
<td>60</td>
<td>32</td>
<td>36</td>
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<tr>
<td>FILTERING ELEMENTS DIAMETER [MM]</td>
<td>125</td>
<td>125</td>
<td>145</td>
<td>145 6 in</td>
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<tr>
<td>FILTERING ELEMENTS LENGTH [MM]</td>
<td>1300</td>
<td>1300</td>
<td>1200</td>
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<tr>
<td>BASE B X C [MM]</td>
<td>2325x1100</td>
<td>3500x1100</td>
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<tr>
<td>HEIGHT A [MM]</td>
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<td>2440</td>
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<tr>
<td>NOISE LEVEL [DB(A)]</td>
<td>75</td>
<td>75</td>
<td>80</td>
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<tr>
<td>INLET DIAMETER [MM]</td>
<td>250</td>
<td>320</td>
<td>380</td>
<td>450 17 3/4 in</td>
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<tr>
<td>OUTLET DIMENSIONS [MM]</td>
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<td></td>
<td></td>
<td>1030x200</td>
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</tbody>
</table>
**FIRE-FIGHTING SYSTEMS**

**Standard Shutdown Setfire Extinguisher Systems**
Shut down ring with manual activation, complete with sprinklers in the upper part of the filtering unit for a homogeneous water spread in case of activation.

**Shutdown Set With Thermostatic Valvefire Extinguisher**
Shut down ring with automatic activation, complete with a sprinkler in the upper part and another one in the lower part of the filtering unit for a homogeneous water spread in case of activation through a thermostatic valve. There is also a manual system to by-pass the automatic activation.
The system is complete with safety pressure switch to automatically stop the filtering unit in case of activation.

**F450 Version**
For outdoor use in EU countries (*also for indoor use only in non-EU countries*), this version only handles dust, and not shavings or chips. Fitted with polyester cartridges (270 g/m²), it works in negative pressure. Its programmable counter current compressed air cleaning system and its settling chamber ensure a high filtering efficiency, while shreds are stored in 3 bins with sight glass to check the filling level.

**ATEX VERSION**
With components to ensure compliance with safety legislation such as electric motor, fan, filtering sleeves, explosion-proof panels, electrical panel.

**BRID VERSION**
Designed for use with briquetting presses (600 mm higher) with special coupling system for hoppers, removable whenever necessary.

**OPTIONS**
- High efficiency filtering plenum for recirculating the air into the work environment
- Exhaust piping for discharging the air outside
- ATEX-compliant non-return valve on the intake
- High-power briquetting presses
- Connection for pneumatic conveyor with rotary valve

The structure is completely made up of galvanized metal panels, then it is painted for maximum strength in case of outdoor installation.