Compact filter unit with manual or automatic Roto-cleaning (CFRS MAN or CFRS AUT). Suitable for use in schools and in smaller workshops, where the filter can be used to extract from machines and use tap for cleaning. Available as single cabinet with 10 to 20m² filter surface and as double cabinet with 40m² filter surface.

**CVRS:**
- Air volume: Up to 6,000m³/h
- Vacuum: Up to 10,000Pa
- Filter surface: 10 - 40m²

Fans type M7 as well as VPH or RVH can be built on top of CFRS 10 to 20 (single cabinet).

**Description**
- Polluted air is led by 90° inlet (vertical connection) on the left filter unit side into preseparator chamber, where larger dust particles/chips are separated to dust container below in unit. Inlet can alternatively be place on the right side.
- Air is led up and filtrated by vertical-placed filter cartridge.
- Manual or automatic filter cleaning by Roto-cleaning that works by touching the filter pleatings in-side with rotating plastic strips, whereby dust and chips are shaken free. Manually it happens by turning the outside handle, alternatively a gear motor is engaged to Roto-cleaning is activated automatically. Filter cleaning may only be activated/operated at operation stop.
- Clean air is led out through top unit outlet.
- Dust and chips fall down into container (72/150L) or 240/380L sack suspended in sack cabinet below in unit.
- Built-in ø76mm flap valve for cleaning around unit after dust container emptying or other service.

**Simple filter unit with several application possibilities**

With a CFRS-filter unit you obtain a simple filter solution that with its compact design easily can be adapted to the production area and connected to several different chip and dust making machine types in both the wood as well as the metal industry and at the same time be used for cleaning purposes. Requires no compressed-air connection, but cleans easily by Roto-cleaning.

**Manual or automatic filter cleaning**
Roto-cleaning is activated by turning the outside handle 5 - 10 times or by gear motor and control automatic.

**Dust container**
Quicklock-adjustable dust container (72/150L) on 4 turnable wheels ensures user-friendly dust container service.

**Easy filter change through front door**
Filter change can be made easily and seamlessly by loosening filter clamp, which can by accessed by bolt-suspended front door.

**Cleaning tap**
Built-in flap valve ø76mm on inlet connection for cleaning around unit after service and dust container emptying.
Filter: Cartridge filter type Staubmaster ø600mm. Length: 500 / 750 / 1000mm

Filter control: Filter cartridge is cleaned manually after stopped use by activating Roto-cleaning, which operates by rotating plastic strips cleaning the filter on the inside - also between the pleatings. Is activated by turning outside handle 5-10 times or by connecting gear motor and control auto-matic that ensure uniform filter cleaning after each application. Roto-cleaning may only be activated, when fan has stopped.

Construction/surface: Filter unit is constructed according to:
- Machine directive 2006/42/EU
- EMC-directive 2004/108/EU
- Directive 97/23/EU about pressure equipment
- Low voltage directive 2006/95/EU
- Harmonized standards: EN 349, EN 4414, EN 12100, EN 60204-1, EN ISO 13857
- Further standards: ISO 3746

Filter cabinet is made in 2mm black steel plate. Surface powder enameled RAL 5007/7011 structure.
CFRS sleeve filter

Filter unit type CFRS is available in the sizes as stated in the forms below. Please, contact us for assistance in selecting the optimal unit taking into consideration air volume, dust type and volume, operation times etc.

Filter unit type CFRS:

<table>
<thead>
<tr>
<th>Type</th>
<th>Delta P start/end</th>
<th>Number filter cartridge</th>
<th>Filter area</th>
<th>Dust container/sack rack</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>CFRS 10/72</td>
<td>200/2000</td>
<td>1 ¹)</td>
<td>10</td>
<td>1 x 72</td>
<td>118</td>
</tr>
<tr>
<td>CFRS 15/72</td>
<td>200/2000</td>
<td>1 ²)</td>
<td>15</td>
<td>1 x 72</td>
<td>134</td>
</tr>
<tr>
<td>CFRS 20/72</td>
<td>200/2000</td>
<td>1 ³)</td>
<td>20</td>
<td>1 x 72</td>
<td>150</td>
</tr>
<tr>
<td>CFRS 10/150</td>
<td>200/2000</td>
<td>1 ¹)</td>
<td>10</td>
<td>1 x 150</td>
<td>137</td>
</tr>
<tr>
<td>CFRS 15/150</td>
<td>200/2000</td>
<td>1 ²)</td>
<td>15</td>
<td>1 x 150</td>
<td>153</td>
</tr>
<tr>
<td>CFRS 20/150</td>
<td>200/2000</td>
<td>1 ³)</td>
<td>20</td>
<td>1 x 150</td>
<td>169</td>
</tr>
<tr>
<td>CFRS 10/380</td>
<td>200/2000</td>
<td>1 ¹)</td>
<td>10</td>
<td>1 x 380</td>
<td>160</td>
</tr>
<tr>
<td>CFRS 15/380</td>
<td>200/2000</td>
<td>1 ²)</td>
<td>15</td>
<td>1 x 380</td>
<td>176</td>
</tr>
<tr>
<td>CFRS 20/380</td>
<td>200/2000</td>
<td>1 ³)</td>
<td>20</td>
<td>1 x 380</td>
<td>192</td>
</tr>
<tr>
<td>CFRS 40/72</td>
<td>200/2000</td>
<td>2 ³)</td>
<td>40</td>
<td>2 x 72</td>
<td>267</td>
</tr>
<tr>
<td>CFRS 40/150</td>
<td>200/2000</td>
<td>2 ³)</td>
<td>40</td>
<td>2 x 150</td>
<td>305</td>
</tr>
<tr>
<td>CFRS 40/240</td>
<td>200/2000</td>
<td>2 ³)</td>
<td>40</td>
<td>2 x 240</td>
<td>295</td>
</tr>
</tbody>
</table>

¹) Staubmaster ø600 x 500mm, 10m², G101  
²) Staubmaster ø600 x 750mm, 15m², G101  
³) Staubmaster ø600 x 1000mm, 20m², G101  
⁴) Pressure drop stated over filter cartridge.  
⁵) Delivered incl. sack.  
⁶) Weight specifications for MAN-versions. +4kg per gear motor at AUT-versions.

Filter material:

Standard
<table>
<thead>
<tr>
<th>Material</th>
<th>Use for</th>
</tr>
</thead>
<tbody>
<tr>
<td>G101 Polyester flake</td>
<td>Dry not-static loaded or hygroscopic dust particles &gt; 0.2µm plaster and wood</td>
</tr>
</tbody>
</table>

Alternative
<table>
<thead>
<tr>
<th>Material</th>
<th>Use for</th>
</tr>
</thead>
<tbody>
<tr>
<td>G113 Polyester flake with PFPT-coating, antistatic</td>
<td>Static-loaded or hygroscopic particles</td>
</tr>
<tr>
<td>G116A Polyester flake with teflon membrane, antistatic</td>
<td>Finer static-loaded dust sorts</td>
</tr>
</tbody>
</table>

The filters meet demands for extraction degree for dust class M according to DIN EN 60335-2-69 Appendix AA (extraction degree > 99.9%).
Further is available:

- Version in hot-galvanized, enamelled steel plates for outdoor mounting
- Sack and sack holder for 72L dust container (150L is always delivered with sack and sack holder)
- CFRS 10 - 20: 380L-sack standing behind door in cabinet buttom, locked in top by suspension flange with Quick-sack band. For double cabinet VFRC 402 pcs. 240L-sack
- Automatik-box for Roto-cleaning with gearmotor (CFRS/AUT)
- Built-on fans type VPH or RVH either in or without sound enclosure (only CFRS 10 - 20)
- M7-built-on fans (type VL, VF or VE) either in or without sound enclosure type VBA (outlet by top module) or VBU with HEPA/H13 (outlet in top by grid)
- Reductions to inlet and outlet
- Connection to transfer pipe
- Connection to FA-edge
- Fill-level sensor type OEM-K (monitors dust container filling)
- Filter guard (pressostat) for differential pressure measurement above filter
- Signal device with constant or blitz light (yellow)
- Explosion-protected/-relieved construction for application in connection with ATEX-zones in the wood industry (see ATEX data sheet)