

Filtres

Geofilter GFB2

The GFB2 filter is the complete solution when it comes to cleaning extracted air efficiently.

The filter removes as much as up to 99,97% of hazardous particles from the extracted air.

The GFB2 filter is used in a wide range of businesses, primarily industry. It is used for filtering air from processes such as welding, grinding, sanding, plasma-/laser cutting and powder coating.

The filter's capacity is an airflow up to 7.200 m³/h, and can be connected in parallel, if needed. By default, the filter is delivered with a cleaning system, using shots of compressed air, to clean the filter cartridges from excessive dust. As standard, it comes with an filter control unit (timer based as standard, differential pressure upon request) and an easy to move collection bucket. Geofilter GFB2 is made from galvanized sheet metal, and has easy service access, with hatched double doors.

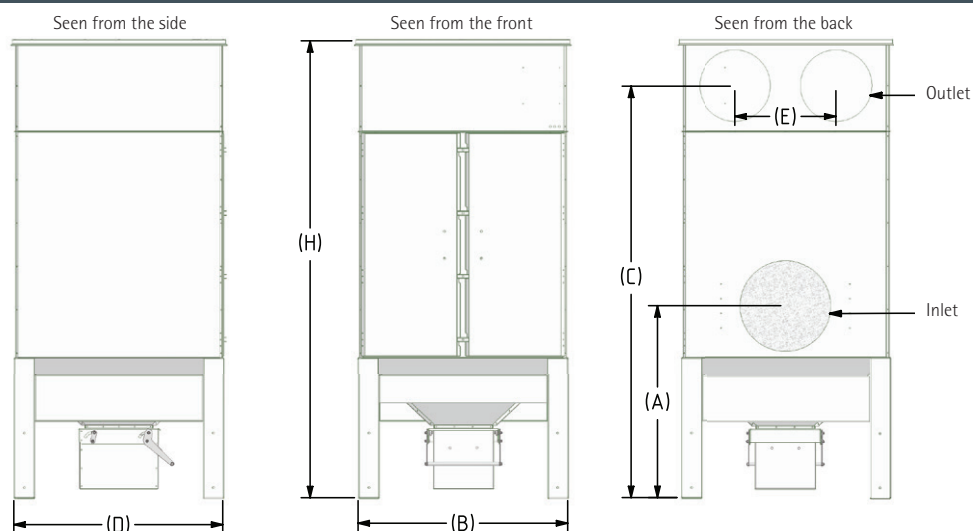
We recommend that the filter is placed indoor. Out-doors placing can give problems with condensation or the electronics.

If the filter is placed outside, anyway, we suggest that the filter is placed under a protective roof to shield the filter from rain. Adding a thermal insulation will reduce the risk.



Geofilter GFB2

Dimensions for standard model D0



| Model/Dimension [mm] | A | B | C | D | E | H | Inlet | Outlet | Weight | Cabinet |
|----------------------|-----|------|------|-----|-----|------|--------|---------|--------|-----------|
| GFB2-3-1 | 810 | 935 | 1830 | 635 | - | 2035 | ø315np | 1x315np | 135 kg | Hot galv. |
| GFB2-6-2 | 810 | 935 | 1830 | 635 | - | 2035 | ø315np | 1x315np | 135 kg | Hot galv. |
| GFB2-9-3 | 855 | 935 | 1830 | 935 | 450 | 2035 | ø400np | 2x315np | 180 kg | Hot galv. |
| GFB2-12-4 | 900 | 1230 | 1830 | 935 | 373 | 2035 | ø500np | 3x315np | 225 kg | Hot galv. |

We recommend 500 mm open space over the filter for maintenance

Filter media

Filter cartridges come in a wide variety of pleated fabric depending on the application.

Below our range of available filter media.



| Art no. | Description |
|-----------|---|
| 15-480FL | FT/11 – 99,9% v/0,3µm (grinding dust / no smoke or oil mist) |
| 15-480AFL | FT/11 – 99,9% v/0,3µm ALUTEC (All-Round) |
| 15-481FL | FT/13 – 99,9% v/0,3µm (welding smoke) |
| 15-482FL | FT/18 – 99,9% v/0,3µm (laser/plasma) PTFE menbrane (for GFB HD) |
| | Extra for alu-coating – pr. filterpatron |
| 15-479 | Pre-coat – ensures longer life for cartridge. Per kg. (approx. 50 grams per filterpatron) |



Advanced control of the filter for maximum performance.



GFB2 with 15-480AFL filter.

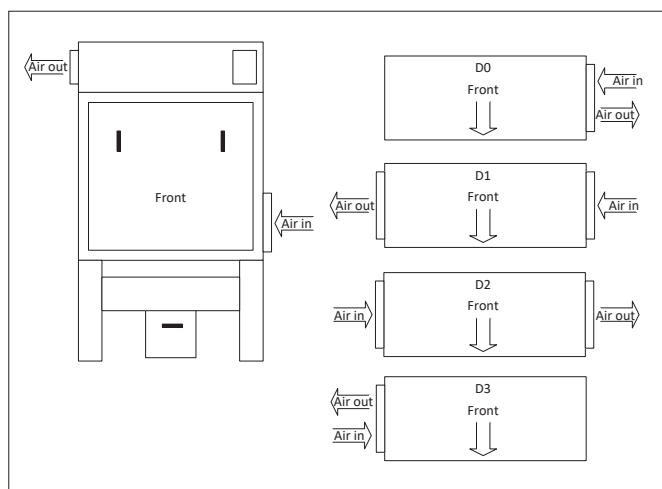
A look inside the GFB2 filter with 4 out of 12 filter cartridges mounted.

The GFB2 is front operated for easy filter cartridge replacement.

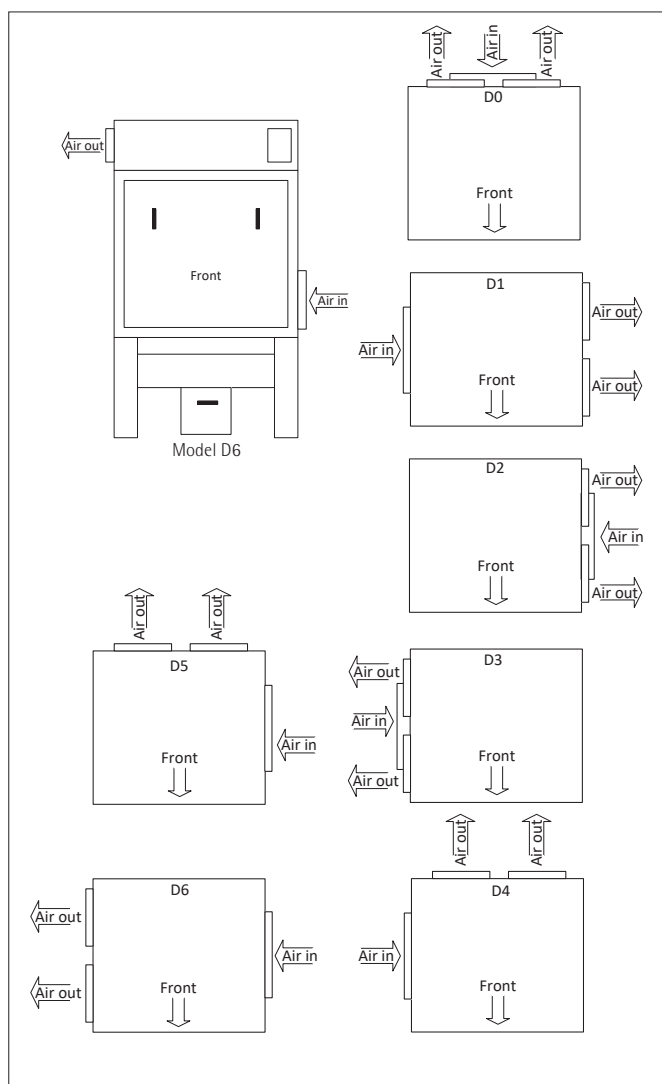
| Application | Art. No. | 15-480FL | 15-482FL | 15-480AFL | 15-481FL |
|--|----------|----------|----------|-----------|----------|
| Oilmist | | | | | X |
| Dry welding smoke | | | | | X |
| Oil saturated welding smoke | | | | | P* |
| Foundry | | | | | X |
| Powder coating | | X | | X | |
| Plasma/laser cutting | | | P* | | |
| Sand blasting / Sand | | X | | | |
| Sand blasting / Glass | | | | F* | |
| Sand blasting / enamel, steel, aluminium | | | | | |
| Grinding | | | | | X |
| Unspecified dust with out smoke | | X | | | |
| Milk powder | | | | | X |
| Spice | | | | A* | |
| Tobacco | | | | X | |
| Paper | | | | X | |
| Chalk | | | | | X |
| Cement | | | | | X |
| Saw dust | | | | A* | |

*Notes: P = Prekote F = moisture resistant A = ATEX approved

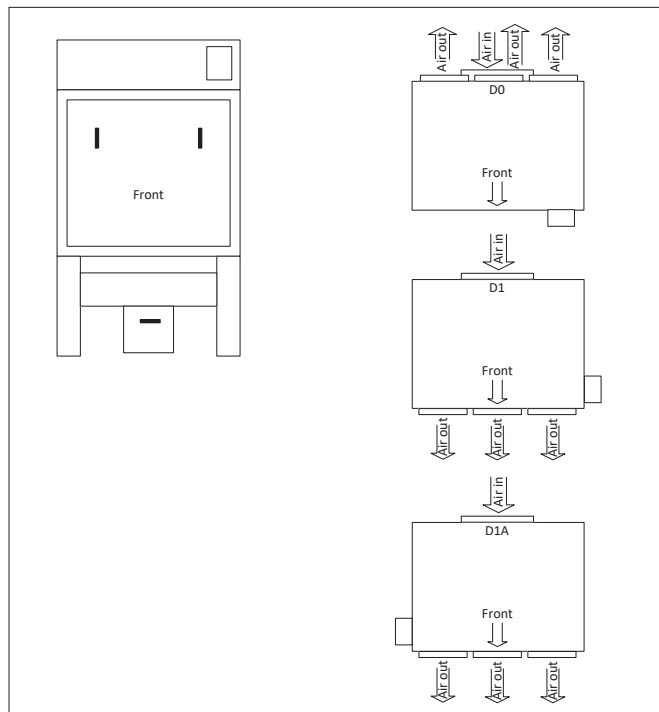
Air flow direction



Geofilter GFB2 3-1 + 6-2



Geofilter GFB2 9-3



Geofilter GFB2 12-4

The Geofilter GFB2 3-1, 6-2, 9-3 and 12-4 is as standard delivered as DO.

We can delivery customized solutions which are named D1, D2 etc.. See the drawings on this page.

Note, that in this case some of the dimensions of the filter may differ from the standard.



Geofilter GFB2

| Model | GFB2 3-1 | GFB2 6-2 | GFB2 9-3 | GFB2 12-4 |
|--|----------|----------|----------|-----------|
| Number of filter cartridges | 3 | 6 | 9 | 12 |
| Filter type | Standard | Standard | Standard | Standard |
| Filter area [m ²] | 30 | 60 | 90 | 120 |
| Number of shot valves | 1 | 2 | 3 | 4 |
| Max Airflow [m ³ /h] | 1800 | 3600 | 5400 | 7200 |
| Air tank [liter] | 8 | 8 | 12 | 16 |
| Filter control w. display, Protection class | IP65 | IP65 | IP65 | IP65 |
| Inlet/outlet, sealing class | Classe C | Classe C | Classe C | Classe C |
| Collection bucket [liter] | 25 | 25 | 25 | 25 |
| Galvanized cabinet, Corrosion class | III | III | III | III |
| Item number | 15-400 | 15-401 | 15-402 | 15-403 |
| Temperature extracted air | Max 80° | Max 80° | Max 80° | Max 80° |

| Pressurised air | Air usage | Power supply | Temperature | Typical pressure drop | Sound level |
|-----------------------------|--|------------------|---------------|-----------------------|-------------|
| 3 - 6 bar clean and dry air | Typical 3.0L (compressed air) per valve per shot | 24VDC or 230 VAC | -12° - +65° C | 1000-1500 Pa | <68 dB(A) |

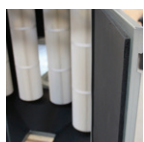
Accessories



| Art. No. | Description |
|----------|--|
| 92-214 | Timer control GFB2 is mounted from the factory as standard |
| 92-214B | Differential pressure control GFB2 |



| | |
|--------|-------------------------------|
| 15-430 | Sound insulation of GFB2 3-1 |
| 15-431 | Sound insulation of GFB2 6-2 |
| 15-432 | Sound insulation of GFB2 9-3 |
| 15-433 | Sound insulation of GFB2 12-4 |



| | |
|--------|---------------------------------|
| 15-434 | Thermal insulation of GFB2 3-1 |
| 15-435 | Thermal insulation of GFB2 6-2 |
| 15-436 | Thermal insulation of GFB2 9-3 |
| 15-437 | Thermal insulation of GFB2 12-4 |



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|--------|--|
| 15-490 | Water separator for GFB2 filter with regulator, manometer and mounting bracket |
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|--------|---|
| 15-440 | Leg Extension for GFB2 filter. Bucket 54L. New filterheight 2430 mm |
|--------|---|