

## 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 m<sup>3</sup>/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.

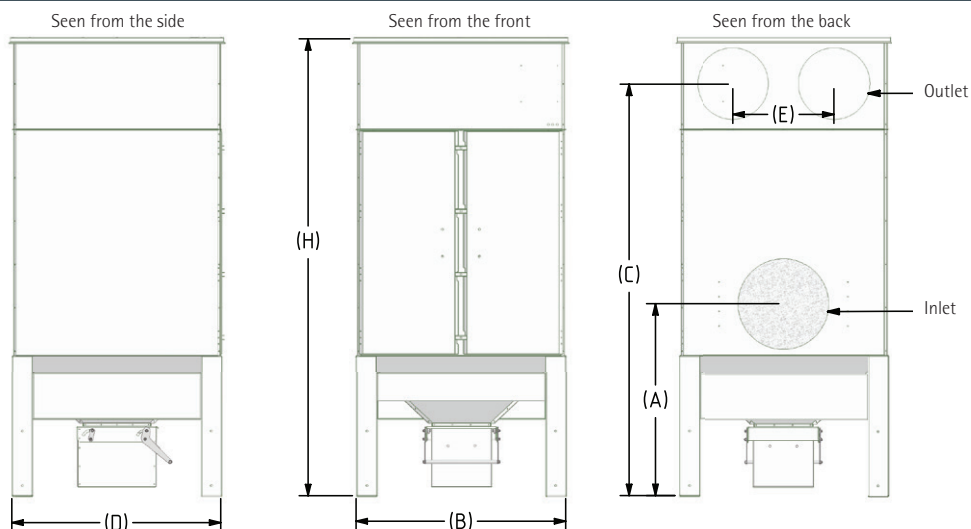
We recommend that the filter is placed indoor. Out-doors placing can give problems with condensation or the electronics.

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 membrane (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.

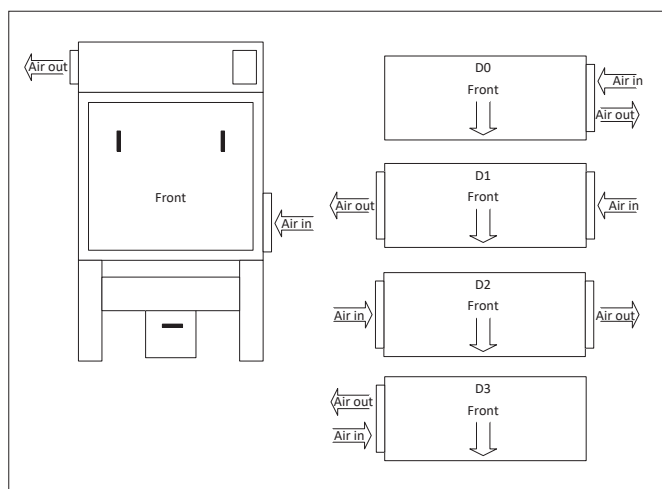
A look inside the GFB2 filter with 4 out of 12 filter cartridges mounted.

The GFB2 is front operated for easy filter cartridge replacement.

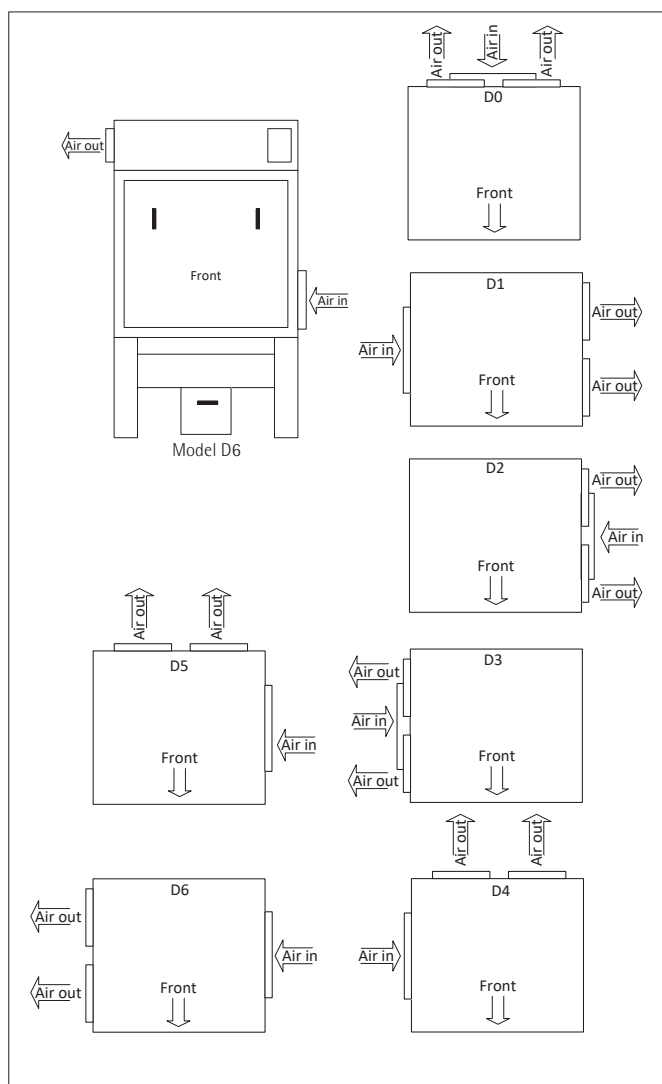
Application	Art. No.	15-480FL	15-482FL	15-480AFL	15-481FL
Oilmist					X
Dry welding smoke					X
Oil saturated welding smoke					P*
Foundry					X
Powder coating		X		X	
Plasma/laser cutting			P*		
Sand blasting / Sand		X			
Sand blasting / Glass				F*	
Sand blasting / enamel, steel, aluminium					
Grinding					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

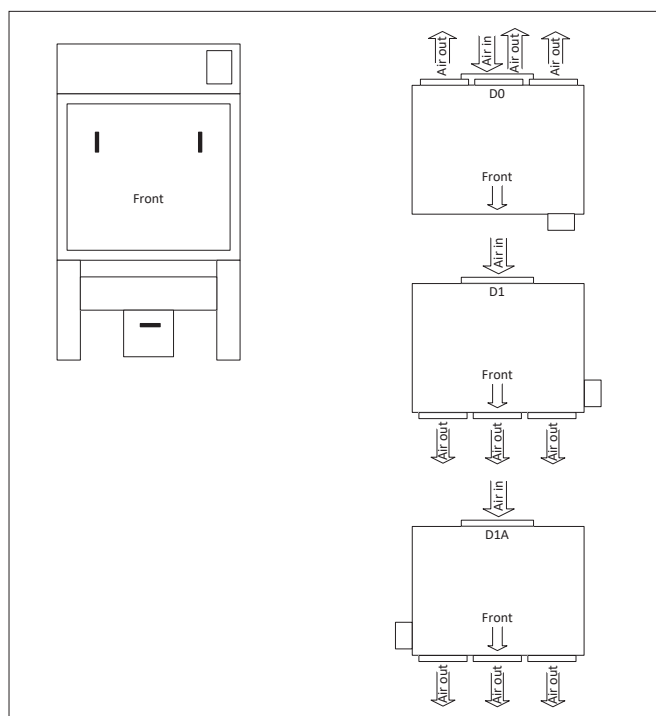
### Air flow direction



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 D0.

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

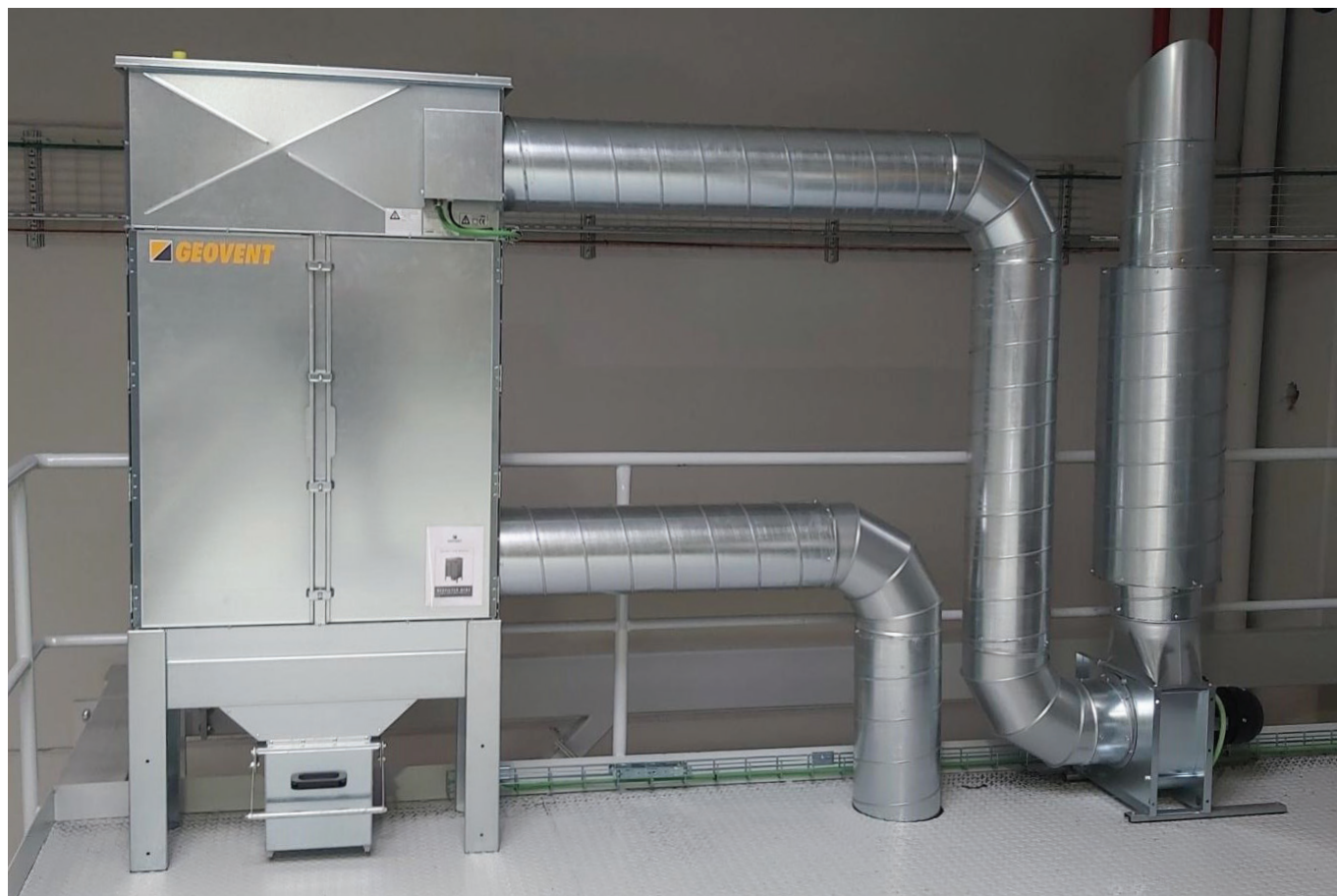
**Note, that in this case some of the dimensions of the filter may differ from the standard.**



## 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 <sup>2</sup> ]	30	60	90	120
Number of shot valves	1	2	3	4
Max Airflow [m <sup>3</sup> /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°

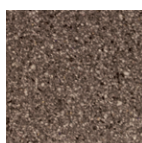
Pressurised air	Air usage	Power supply	Temperature	Typical pressure drop	Sound level
3 - 6 bar clean and dry air	Typical 3.0L (compressed air) per valve per shot	24VDC or 230 VAC	-12° - +65° C	1000-1500 Pa	<68 dB(A)



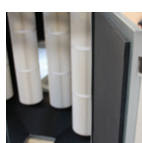
## Accessories



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



15-490	Water separator for GFB2 filter with regulator, manometer and mounting bracket
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Accessory for collecting large amounts of dust. NB: The bucket is grounded to the filter if GFX2 (ATEX) is selected.



15-441	Bin 54 L for GFB2 and GFX2
15-442	Bin 25 L for GFB2 and GFX2
15-443	Bin 54 L for GFB2 and GFX2
15-444	Bin set 54 L for GFB2 and GFX2 3-1 and 6-2
15-445	Bin set 75 L for GFB2 and GFX2 3-1 and 6-2
15-446	Bin set 54 L for GFB2 and GFX2 9-3
15-447	Bin set 75 L for GFB2 and GFX2 9-3
15-448	Bin set 54 L for GFB2 and GFX2 12-4
15-449	Bin set 75 L for GFB2 and GFX2 12-4