

Filter

GFB2 W3

GeoFilter GFB2 W3 is a complete and self-cleaning filter unit. It is tested at Institut für Arbeitsschutz der Deutschen Gesetzlichen Unfallversicherung (IFA) in Germany and approved according to DIN EN ISO 21904-1 and 21904-2 and it meets the requirements of welding fume separation class "W3".

This filter unit has extra security measures built-in compared with our standard GFB2 filter units:

- The filter unit has an extra alarm and a lamp built-in, which is activated when the filter cartridges need to be changed.
- When the filter cartridges are changed, these are loosened from the top - meaning from the clean side. This way, persons who change the filter avoid contact with the contaminated particles on the filter cartridges. When the filter cartridges are loosened, the doors can be opened and each cartridge can be covered with a plastic bag and removed and then the bag can be closed tight.
- A vacuum is established in the bucket in order to avoid, that the bag and the contents of the bucket from being extracted up into the filter unit.

Like the GeoFilter GFB2 this unit has an automatic, timer controlled cleaning function installed as standard. The controller is programmed from the factory, but the parameters can be adjusted, so that the filter unit is matching the exact need.

It is possible to exchange the timer control unit to a differential pressure control unit, which activates the cleaning at a pre-defined pressure loss.



Advanced control of the filter for maximum performance



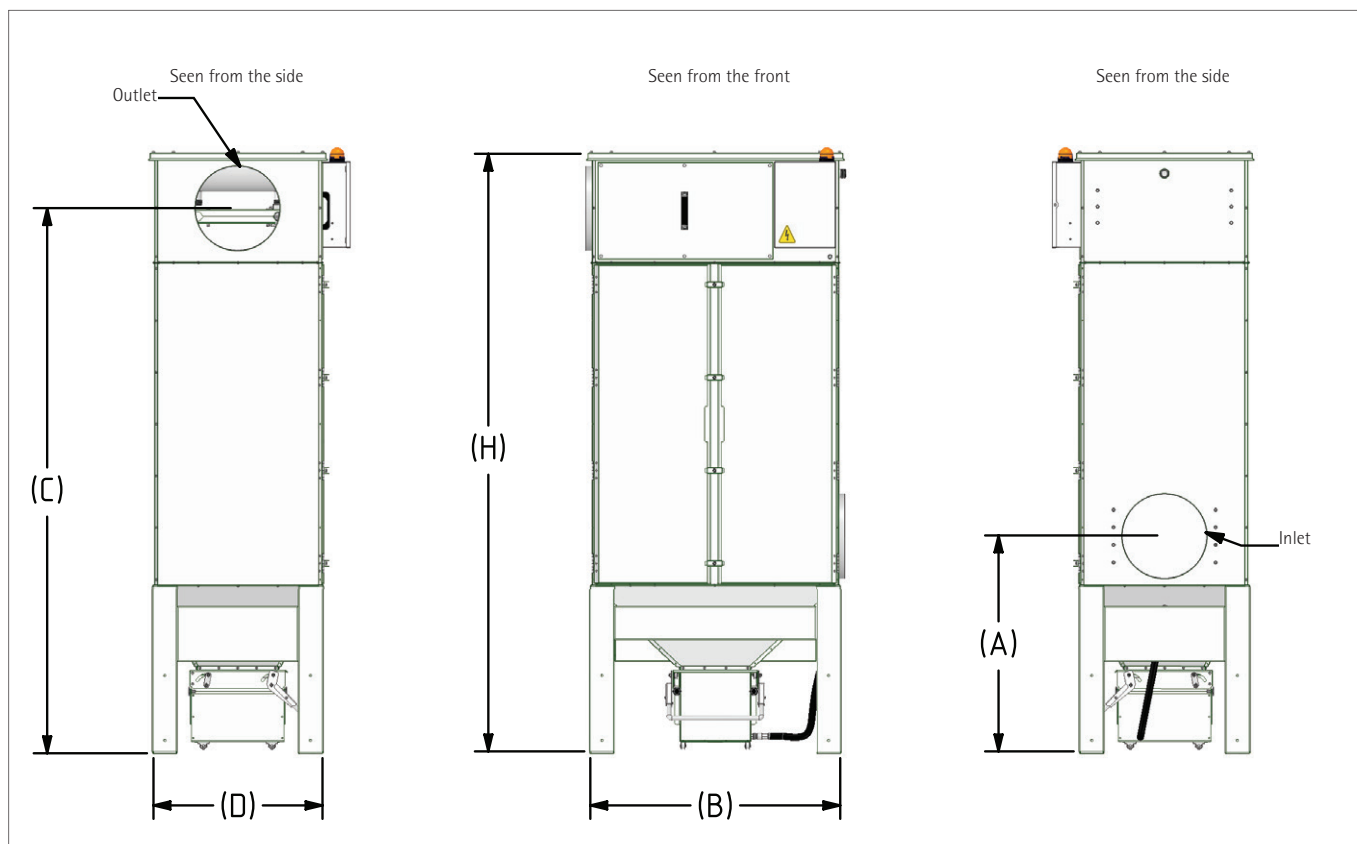
GFB2 W3



Ordering table

Art. No	Description	Filter area	Max m ³ /h
15-460W3	GeoFilter GFB2 W3 3-1. Comes as a 6-2 cabinet	30 m ²	1.800
15-461W3	GeoFilter GFB2 W3 6-2	60 m ²	3.600
15-462W3	GeoFilter GFB2 W3 9-3	90 m ²	5.400
15-463W3	GeoFilter GFB2 W3 12-4	120 m ²	7.200
Art no.	Description		
15-482FL	FT/18 – 99,9% v/0,3µm (laser/plasma) PTFE membrane (for GFB HD/GFB2 W3)		
15-482W3	Replacement Filters for GFB2 W3		

Dimensions



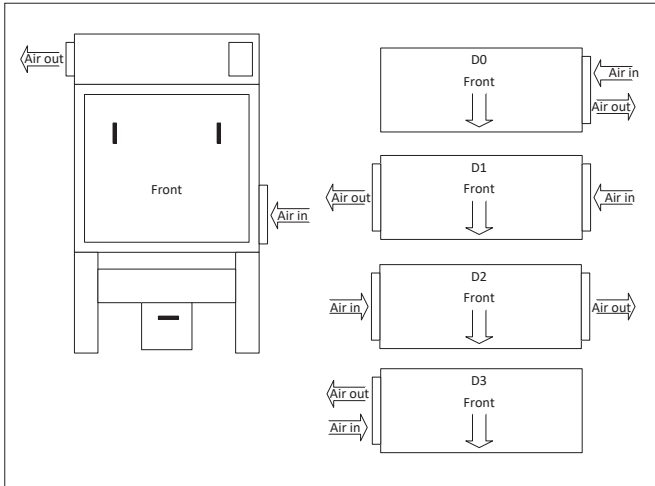
Model/Dimension [mm]	A	B	C	D	H	Inlet	Outlet	Weight	Cabinet
GFB2 W3 3-1	810	935	2022	635	2226	ø315np	1xø315np	145 kg	Galvanized
GFB2 W3 6-2	810	935	2022	635	2226	ø315np	1x315np	145 kg	Galvanized
GFB2 W3 9-3	855	935	2022	935	2226	ø400np	2x315np	190 kg	Galvanized
GFB2 W3 12-4	900	1235	2022	935	2226	ø500np	3x315np	230 kg	Galvanized

Please note that the inlets, outlets and doors can be placed differently depending on the dimension.

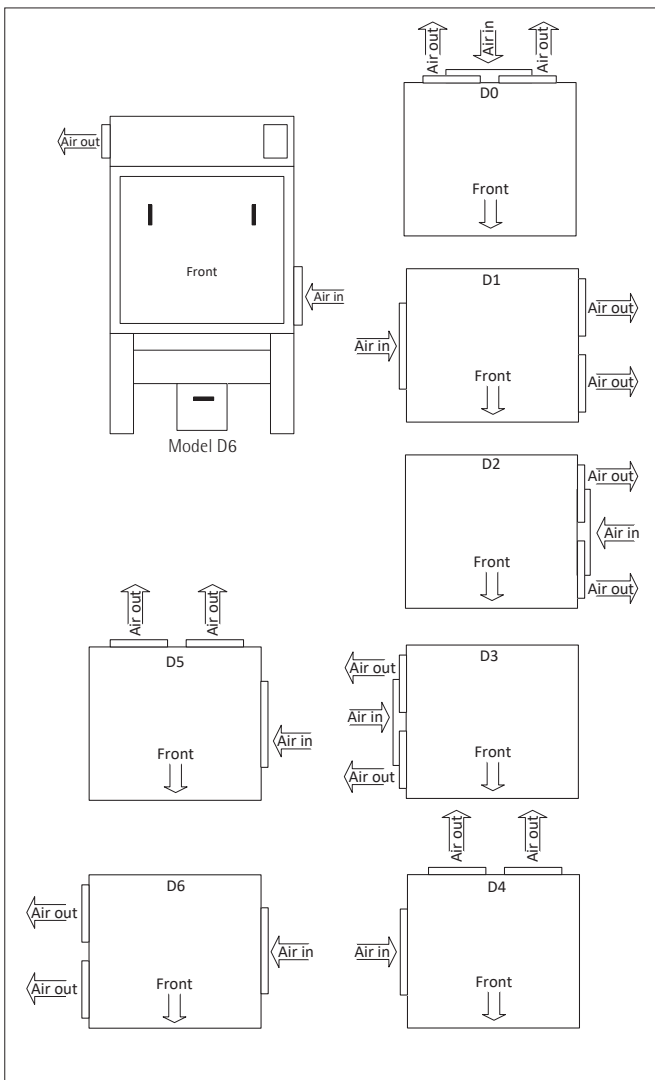
We recommend that the filter is placed indoor. Out-doors placing can give problems with condensation or the electronics.

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.

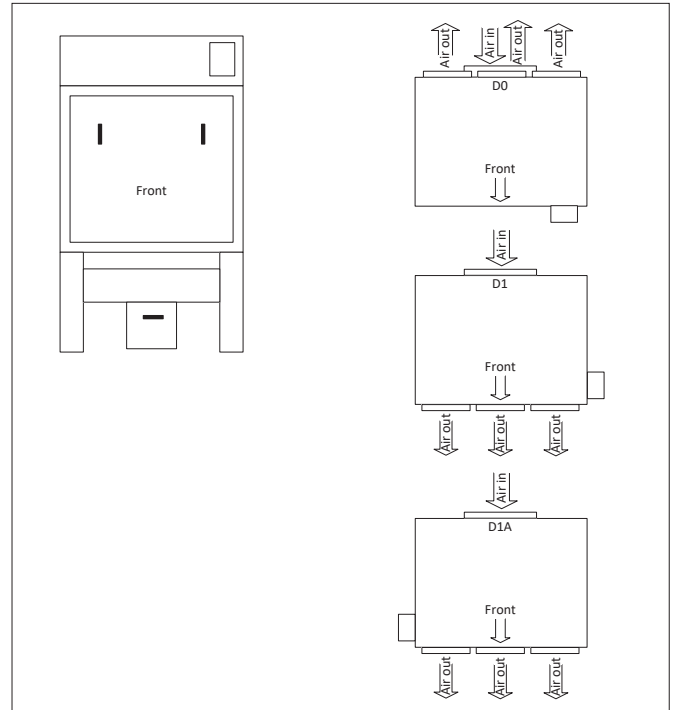
Air flow direction



GeoFilter GFB2 W3 3-1 + 6-2



GeoFilter GFB2 W3 9-3



GeoFilter GFB2 W3 12-4

The GeoFilter GFB2 W3 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.

Combination options for filter units and fans

FILTER TYP	Art. No.	Number of cartridges	Filter area [m ²]	Typical air volume min [m ³ /h]	Typical air volume max [m ³ /h]	Fan	Art. No.	Typical pressure at min air volume [kPa]	Typical pressure at max air volume [kPa]	FRQ
GFB2 W3 3-1	15-460W3	3	30	1.000	1.800	MHF-500-3 4 kW	36-550	3,7	2,6	
						MEF-400-3 5,5 kW	35-206A	2,9	2,8	x
						MSFG-250-3 4.0 kW	33-002	1,7	1,7	
GFB2 W3 6-2	15-461W3	6	60	1.500	3.600	MEF-450-3 5,5kW	35-706	2,7	2,7	
						MEF-400-3 5,5 kW	35-206A	2,9	2,8	x
						MSFG-250-3 4.0 kW	33-002	1,7	1,6	
GFB2 W3 9-3	15-462W3	9	90	2.500	5.400	MEF-500-3 7,5kW	36-500	3,3	3,2	
						MEF-450-3 5,5 kW	35-706	2,6	2,3	
						MEF-400-3 5,5 kW	35-206A	2,8	2,1	x
GFB2 W3 12-4	15-463W3	12	120	4.000	7.200	MEF-500-3 7,5kW	36-500	3,4	2,8	
						MEF-500-3 11 kW	36-501	4,2	4,1	x
						MEF-450-3 5,5kW	35-706	2,7	1,8	
GFB2 W3 18-6	15-464W3	18	180	6.000	10.800	MEF-630-3 15kW	35-750A	3,3	3,3	x
(2xGFB2-9-3)						MEF-560-3 18,5kW	35-804	4,4	3,9	
GFB2 W3 24-8	15-465W3	24	240	8.000	14.400	MEF-630-3 22kW	35-750	4,5	4,2	x
(2xGFB2-12-4)						MEF-630-3 15kW	35-750A	3,3	2,9	x
						MEF-560-3 18,5kW	35-804	4,3	3,2	
GFB2 W3 36-12	15-466W3	36	360	10.000	21.600	LEF-800-3 37kW	36-600	4,2	3,8	x
(3xGFB2-12-4)						MEF-630-3 22 kW	35-750	4,2	2,8	x
GFB2 W3 48-16	15-467W3	48	480	12.000	28.800	LEF-900-3 37kW	36-700	4,3	3,6	x
(4xGFB2-12-4)										