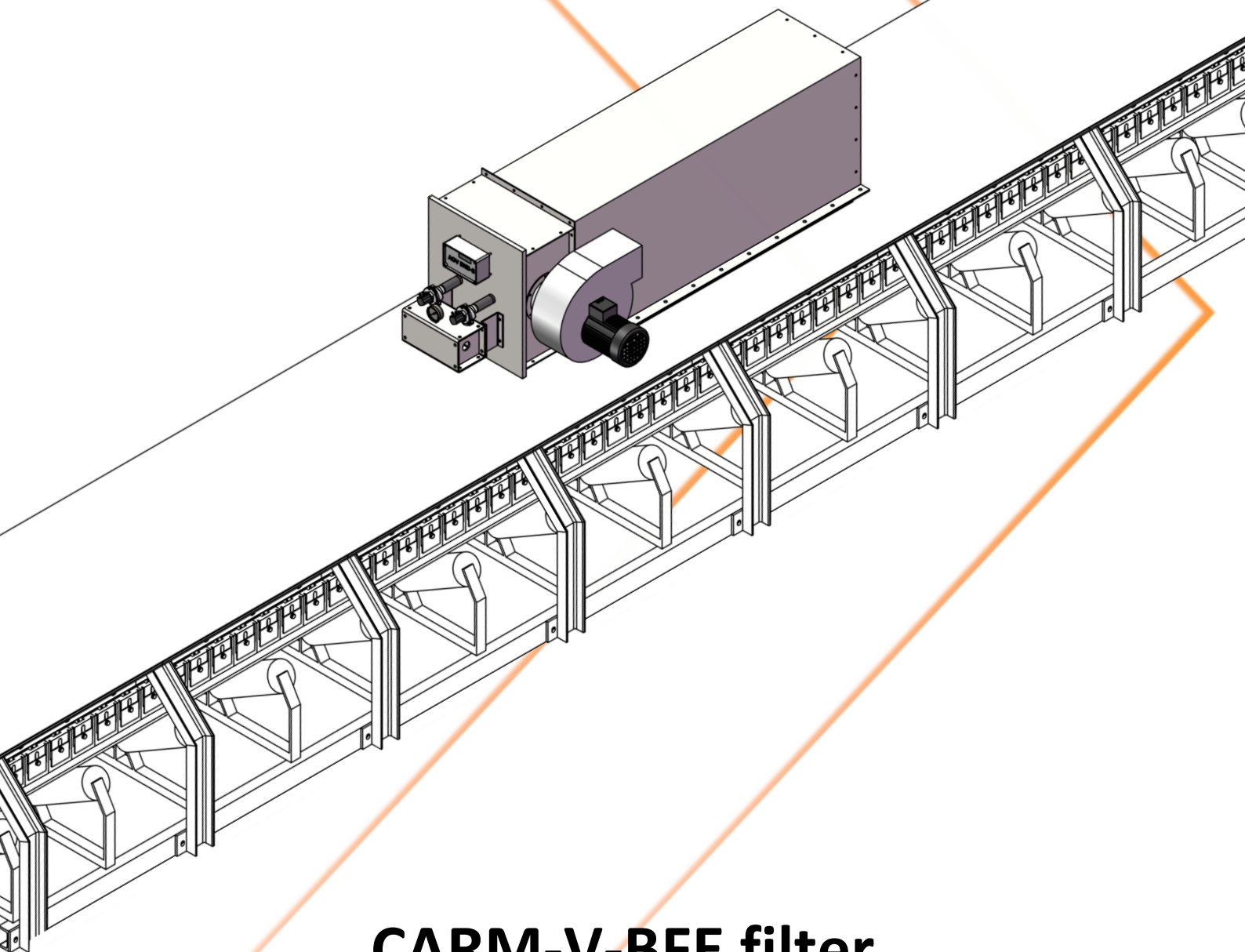




less
spillage,
more
performance



CARM-V-BFE filter

Who is DCP?

When bulk materials are conveyed, processed and stored, it is unavoidable that dust is produced. The release dust is harmful to health, burdens the environment and causes pollution.

Dust Control Partners (DCP) is specialized in controlling dust emissions, which is also called as dedusting or dust extraction or removal. The DCP experts have many years of practical experience in the area of industrial dedusting technology in all the facets of the industry.

In addition to the delivery of individual dust filter systems such as insertable filters, baghouse filters, spot filters and gravity separators, DCP implements full turnkey dedusting projects. Together with the customer, we search for sustainable solutions for the dust problems that arise. Custom-made solutions are always the standard.

CARM-V-BFE filter

The CARM-V-BFE filter is an utmost compact dedusting filter and can be easily installed on existing and new mechanical conveyance systems. The upward speed in the filter is very low thanks to the large inlet opening and, therefore, dust circulation in the filter is kept to a minimum. The separated dust is fed back into the product flow immediately. The filter elements can be inspected and exchanged on the clean air side quickly and safely.

Application

CARM-V-BFE filters are mainly installed on chain conveyors, elevators and transfer points of conveyor belts. The spot filter sucks a small quantity of air and creates, in this way, a slight vacuum, preventing dust discharge.



Model

CARM-V-BFE filters have four filter elements mounted next to each other in one row and can be built to two rows of elements on top of each other. The CARM-V-BFE filters come in a capacity range from 2 m² up to 12 m², supplied with filter elements with a filtration area of 0,5 / 0,7 / 1 / 1,25 and 1,5 m². The filter elements can be fitted with different qualities of filter materials to meet the optimum performance for each application.

The CARM filters can be supplied in a steel coated or stainless steel. If applicable we also produce filters which can be used in potentially flammable and explosive environments. These filters are built in compliance to the ATEX 95 directive (also known as the 94/9/EC directive), which allows the filters to be used in ATEX zone 22.

CARM-V-BFE filters are supplied in the following variants:

- Type H: Horizontal model, in particular for installation on chain conveyors and conveyor belts.
- Type V: Vertical model, in particular for installation on elevators systems.
- Type B: Insertable model.

Datasheets

The datasheets on the next pages give a selection of standard configurations of the CARM-V-BFE filters. In addition to the provided configurations, several other options and designs are possible.

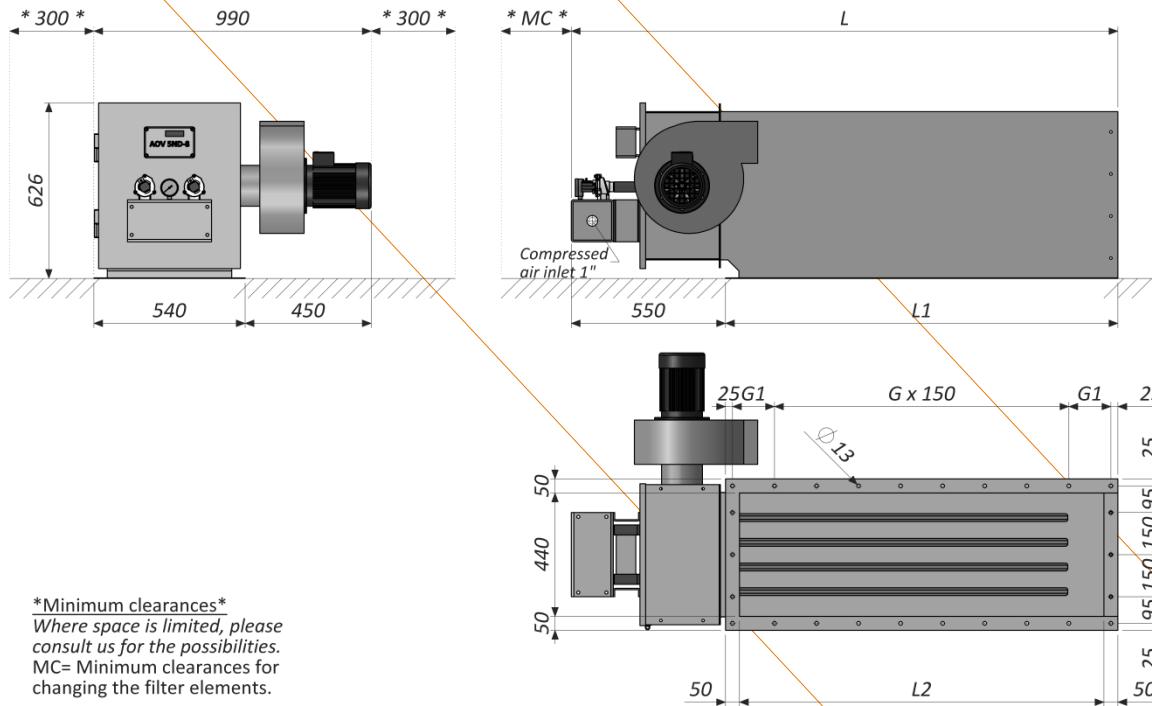
All our filter equipment is produced order wise, which makes it easy to customize to almost every requirements. If the displayed selection does not meet your requirements, please feel free to contact us to discuss all the possibilities and configurations.

The type designation for the CARM-V-BFE filters is built up as follows:

BFE04/1/1/10 H — Type of implementation.
— Length of filter element (0,5 / 0,7 / 1 / 1,25 / 1,5m).
— Number of slot plates on top of each other (standard 1 or 2).
— Number of slot plates next to each other (standard 1).
— Number of filter elements on each slot plate.

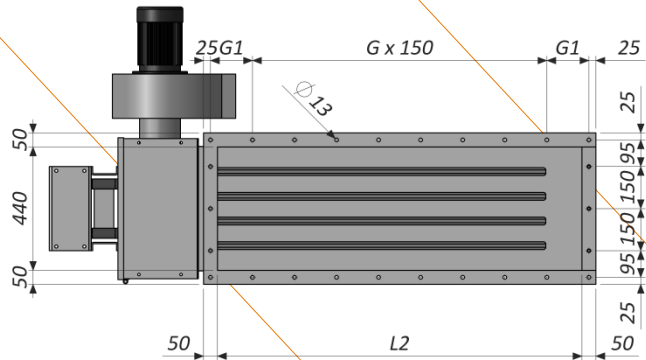
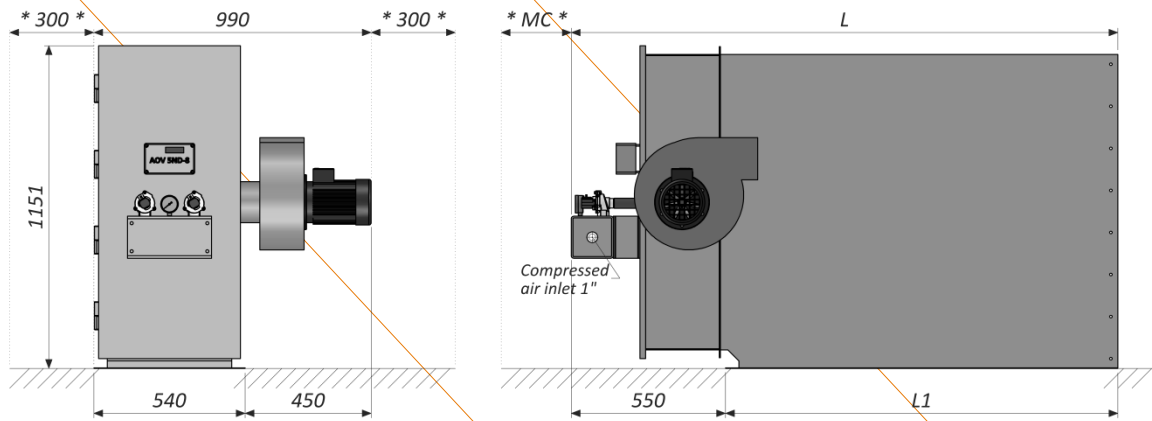


Datasheet CARM-V-BFE-H (horizontal application)



Filter type	No. of filter elements	Fabric area (m ²)	Total filter surface (m ²)	Length	(Dimensions in mm)					Approx weight (kg)
					L1	L2	G	G1	*MC*	
BFE04/1/1/05H	4	0,50	2,0	1100	550	450	2	175	550	135
BFE04/1/1/07H	4	0,70	2,8	1350	800	700	4	150	550	150
BFE04/1/1/10H	4	1,00	4,0	1650	1100	1000	6	150	750	165
BFE04/1/1/12H	4	1,25	5,0	1950	1400	1300	8	150	1000	175
BFE04/1/1/15H	4	1,50	6,0	2100	1550	1450	9	150	1250	185

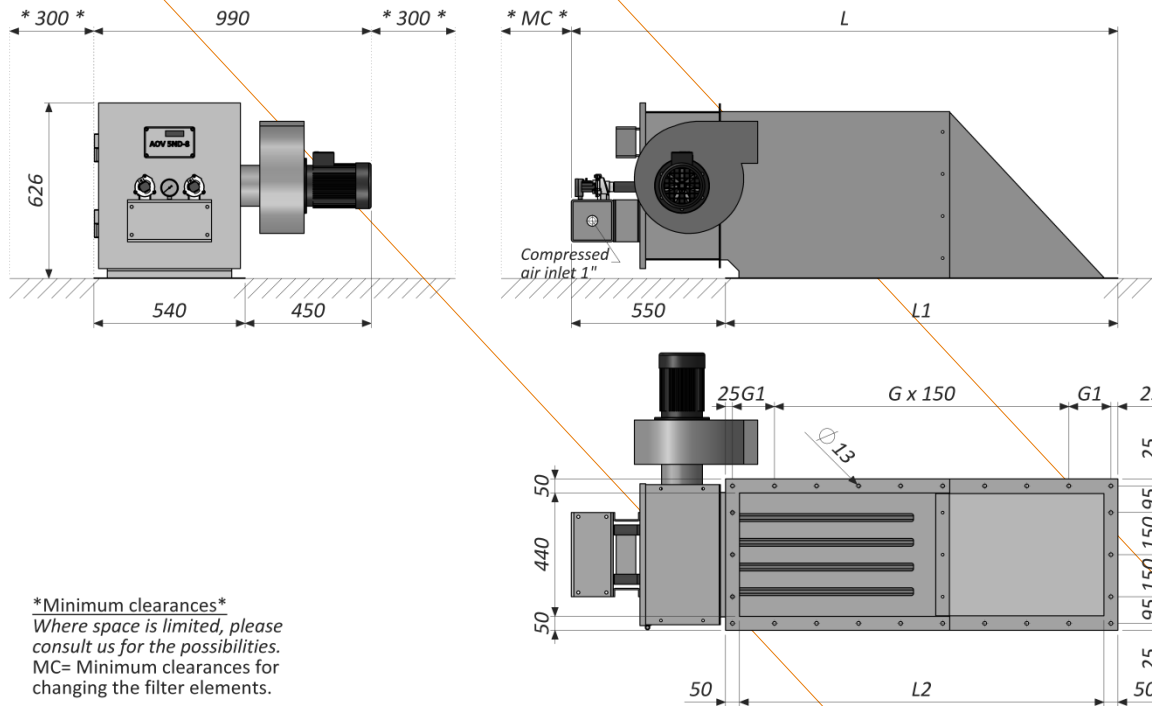
Datasheet CARM-V-BFE-H (horizontal application)



Minimum clearances
 Where space is limited, please consult us for the possibilities.
 MC= Minimum clearances for changing the filter elements.

Filter type	No. of filter elements	Fabric area (m ²)	Total filter surface (m ²)	Length	(Dimensions in mm)					Approx weight (kg)
					L1	L2	G	G1	*MC*	
BFE04/1/2/05H	8	0,50	4,0	1100	550	450	2	175	550	205
BFE04/1/2/07H	8	0,70	5,6	1350	800	700	4	150	550	225
BFE04/1/2/10H	8	1,00	8,0	1650	1100	1000	6	150	750	250
BFE04/1/2/12H	8	1,25	10,0	1950	1400	1300	8	150	1000	275
BFE04/1/2/15H	8	1,50	12,0	2100	1550	1450	9	150	1250	290

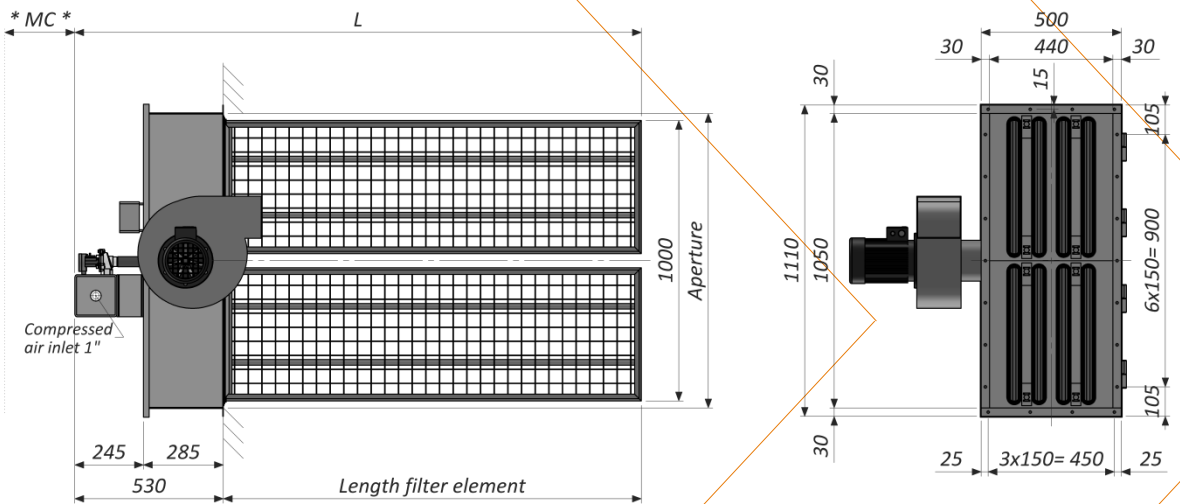
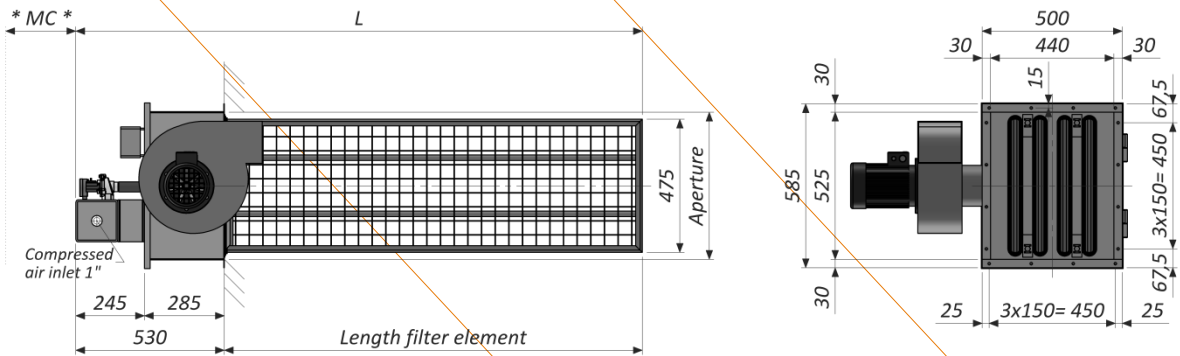
Datasheet CARM-V-BFE-V (vertical application)



Minimum clearances
 Where space is limited, please consult us for the possibilities.
 MC= Minimum clearances for changing the filter elements.

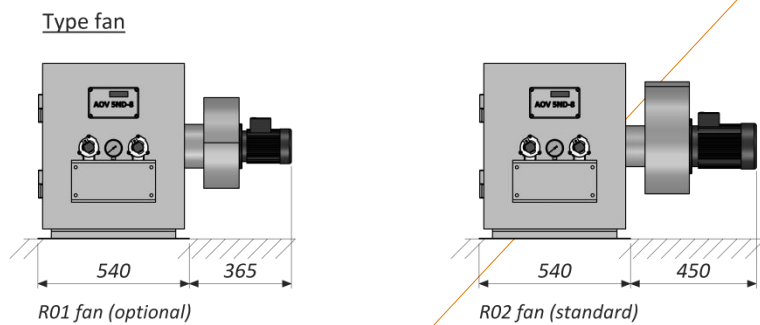
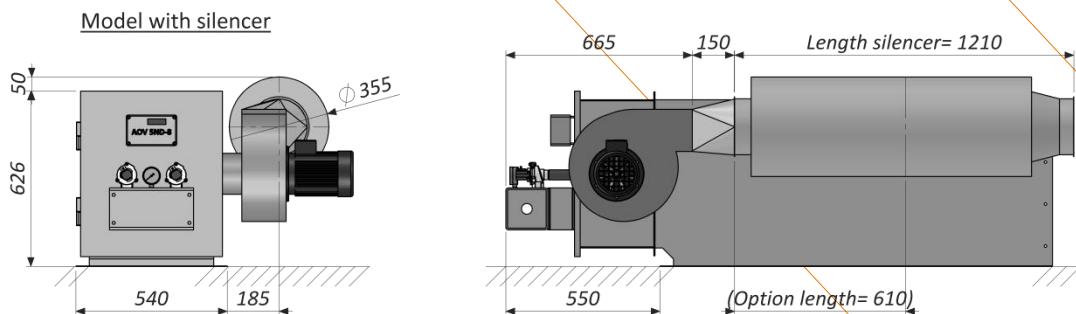
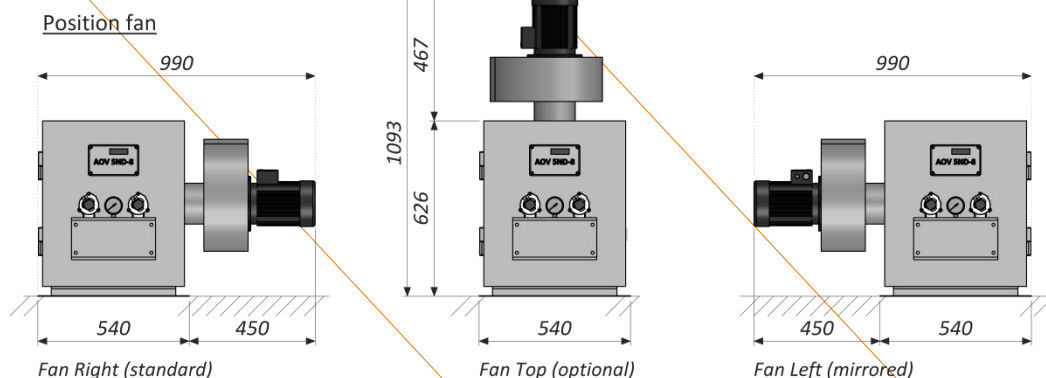
Filter type	No. of filter elements	Fabric area (m ²)	Total filter surface (m ²)	Length	(Dimensions in mm)					Approx weight (kg)
					L1	L2	G	G1	*MC*	
BFE04/1/1/05H	4	0,50	2,0	1700	1150	1050	5	175	550	145
BFE04/1/1/07H	4	0,70	2,8	1950	1400	1300	7	150	550	160
BFE04/1/1/10H	4	1,00	4,0	2250	1700	1600	9	150	750	175
BFE04/1/1/12H	4	1,25	5,0	2550	2000	1900	11	150	1000	185
BFE04/1/1/15H	4	1,50	6,0	2700	2150	2050	12	150	1250	195

Datasheet CARM-V-BFE-B (insertable application)



Filter type	No. of filter elements	Fabric area(m ²) filter element	Total filter surface (m ²)	Length	*MC*	(Dimensions in mm)		Approx weight(kg)
						Aperture	Length filter element	
BFE04/1/1/05B	4	0,50	2,0	1030	550	475	450	120
BFE04/1/1/07B	4	0,70	2,8	1230	550	475	450	125
BFE04/1/1/10B	4	1,00	4,0	1530	750	475	450	130
BFE04/1/1/12B	4	1,25	5,0	1780	1000	1000	450	135
BFE04/1/1/15B	4	1,50	6,0	2030	1250	1000	450	140
BFE04/1/2/05B	8	0,50	4,0	1030	550	475	450	170
BFE04/1/2/07B	8	0,70	5,6	1230	550	475	450	180
BFE04/1/2/10B	8	1,00	8,0	1530	750	475	450	195
BFE04/1/2/12B	8	1,25	10,0	1780	1000	1000	450	205
BFE04/1/2/15B	8	1,50	12,0	2030	1250	1000	450	215

Options CARM-V-BFE



Specifications fans

Fan	Flow rate fan (m ³ /h)	Total pressure fan (Pa)	Start engine	Power (kW)	Voltage	Amperes (A)	Speed (RPM)	Class	Construction	Engine noise (dB (A))	Total sound level (dB (A) distance 1 m)	Distance door to engine	Approx weight(kg)
R01	480	1.250	Directly	0,37	230/400 V / 50Hz	1	2740	IP55	B3	72	54	365	25
R02	960	1.600		0,75		1,7	2838			75	57	450	32
G01*	1200	2300		0,75		1,7	2838			81	64	400	34
G03*	1800	2300		1,5		3,1	2848			82	64	450	78

* R01 and R02 are the standard applied fans, G01 and G03 can optionally also be employed.

Dust Control Partners is part of the TBK Group

TBK Group is since 1956 a leading group of companies that has been offering innovative solutions for companies operating in the mineral processing, mining, bulk handling and recycling sectors.

Organizations within these sectors call in the TBK Group for the following services and products:

- Optimization of conveyor belt systems through:
 - Minimizing pollution, dust and wear to transfer points;
 - Conveyor belt cleaning;
 - Solutions to prevent misalignment;
 - Optimizing the grip of drive and snub pulleys;
- Industrial dust filters and complete dedusting systems;
- Limiting and controlling wear and tear;
- Rubber and polyurethane screens;
- Vibratory conveyors, screening and recycling machines, and magnetic separators.

The TBK Group offers total solutions for complex problems that may occur during the handling of bulk materials to customers all over Europe.

Copyright ©2015 TBK Group BV Renswoude



Dust Control Partners BV
Groot Overeem 7
NL-3927 GH RENSWOUDE
THE NETHERLANDS
T +31(0)318 745741
F +31(0)318 575177
info@tbkgroup.com
www.tbkgroup.com