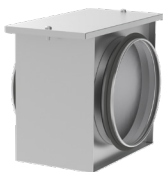




NORDfilter
Filter boxes

Contents

BGR
Filter box



BFK
Filter box



BFR
Filter box



FFH
Filter box



BGR Filter box

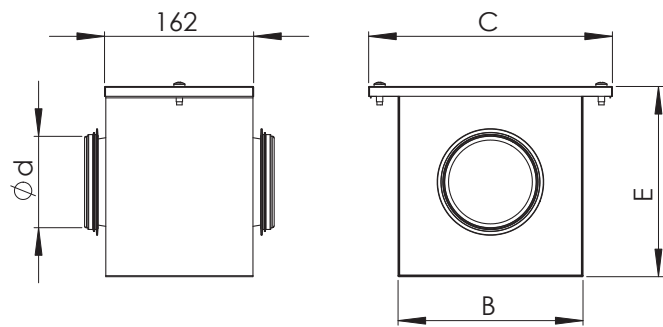
The BGR filter box is meant to be used with a G3 filter.

The filter box is made of hot-galvanised sheet metal. Round connection joints are provided with rubber seals. Opening of the cover is solved with a quick coupler.



Dimensions

Nominal dimension	Ød	B, mm	E, mm	C, mm
BGR 100	100	201	206	265
BGR 125	125	201	206	265
BGR 160	160	201	206	265
BGR 200	200	246	251	310
BGR 250	250	296	301	360
BGR 315	315	346	351	410
BGR 400	400	446	451	510
BGR 500	500	546	551	610



Product codes

BGR	d
Marking	Diameter

Example: BGR 200

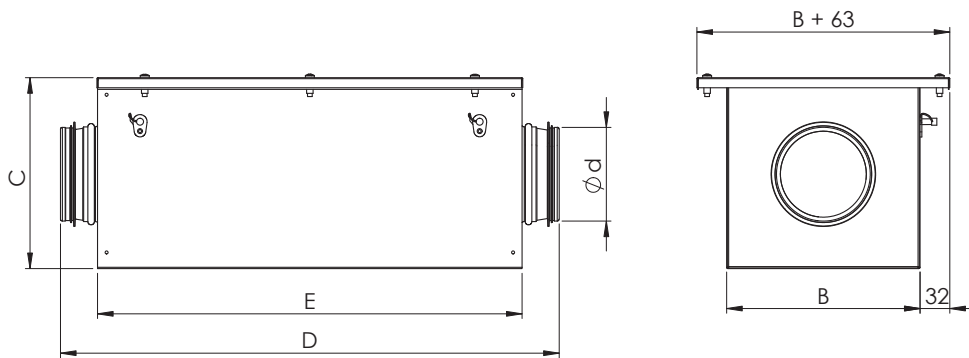
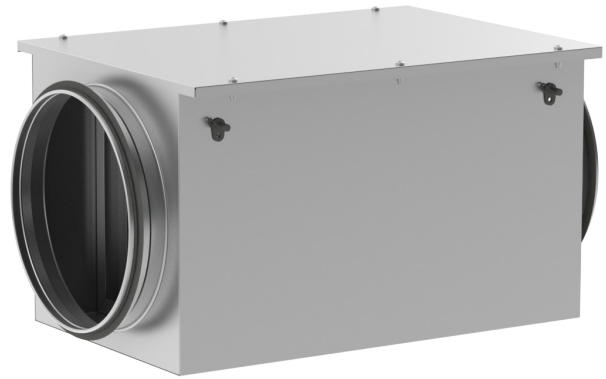
BFR Filter box

The BGR filter box is meant to be used with a FKB bag filter (filter classes G3, M5 or F7). The filter box is made of hot-galvanised sheet metal.

Round connection joints are provided with rubber seals.

FKB bag filters meant to be used with a BFR filter box are ordered separately with a filter of G3, M5 or F7 filter class, as required.

Replacement of a filter: Size of the opening in the room ceiling has to be at least of the same as the filter. Opening turning angle has to fit the size of the room measure E or B.



Dimensions

Nimimõõt	Ød	B, mm	C, mm	E, mm	D, mm	FKB filter
BFR 100	100	205	203	450	530	100-125
BFR 125	125	205	203	450	530	100-125
BFR 160	160	205	203	450	530	160
BFR 200	200	250	248	450	530	200
BFR 250	250	300	298	500	584	250
BFR 315	315	350	348	550	634	315
BFR 400	400	450	448	650	780	400
BFR 500	500	550	548	650	780	500
BFR 630	630	700	698	800	930	630

FKB filters corresponding to a BFR filter box

Nominal dimensions Ød, mm	Frame size	Filter bags			
		G3, M5		F7	
		Number of bags	Depth	Number of bags	Depth
FKB 100	196x196	2	250	3	250
FKB 125	196x196	2	250	3	250
FKB 160	196x196	3	250	3	350
FKB 200	242x242	4	280	4	350
FKB 250	292x292	4	360	5	400
FKB 315	342x342	5	400	6	450
FKB 400	442x442	5	500	7	534
FKB 500	542x542	6	500	8	534
FKB 630	692x692	7	500	11	635

Product codes

BFR	d
Marking	Diameter

Example: BFR 200

FKB	L	M5
Marking	Dimension	Filter class

Example: FKB 200-M5

BFK Filter box

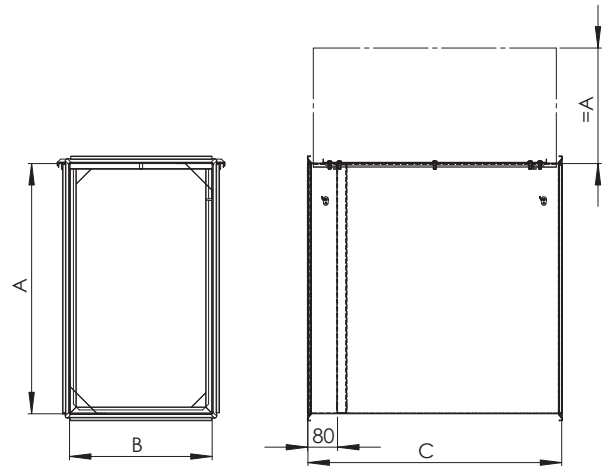
The BFK filter box is meant to be used with a FK bag filter (filter classes G3, M5 or F7). The filter box is made of hot-galvanised sheet metal and both ends are provided with a squared channel to be connected with a Z-strip. Thanks to a special maintenance door replacement of a filter is simple.

Replacement of a filter: Size of the opening in the room ceiling has to be at least the same as the filter. Opening turning angle has to fit the size of the room measure A or B.

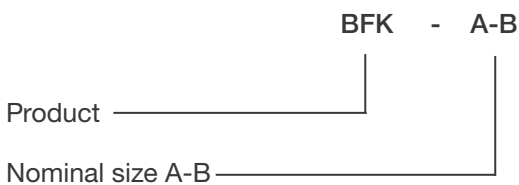


Dimensions

Nominal size	A, mm	B, mm	C, mm
BFK 30-15	300	150	460
BFK 30-30	300	300	460
BFK 35-35	350	350	460
BFK 40-20	400	250	460
BFK 40-40	400	400	460
BFK 45-45	450	450	560
BFK 50-25	500	250	460
BFK 50-30	500	350	560
BFK 50-50	500	500	560
BFK 55-55	550	550	560
BFK 60-30	600	350	560
BFK 60-35	600	350	710
BFK 60-60	600	600	710
BFK 65-65	650	650	710
BFK 70-40	700	400	710
BFK 70-70	700	700	710
BFK 75-75	750	750	710
BFK 80-80	800	800	710
BFK 85-85	850	850	800
BFK 100-50	1000	500	710
BFK 100-80	1000	800	800
BFK 100-100	1000	1000	800
BFK 120-80	1200	800	800



Product codes



Example: BFK 60-30

FFH Filter box for HEPA filter

FFH filter boxes are meant to be used in ventilation systems to ensure higher cleanness requirements in supply and exhaust air ducts.

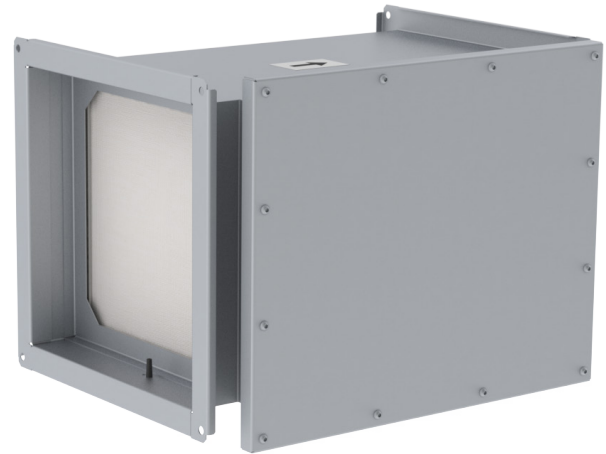
The filter box is equipped with HEPA filter.

FFH filter box meet tightness class D requirements provided that the products are assembled according to instructions.

Tightness of the filter box in the ventilation duct is ensured with E30 connection bars. Tightness of the service hatch is ensured by a rubber sealing and fastening bolts that are used to close the service hatch after replacement of the filters.

Tightness of the filter is ensured by a sealing installed on the HEPA filter by the manufacturer.

This sealing is pressed against the supportive plate by means of tightening screws.

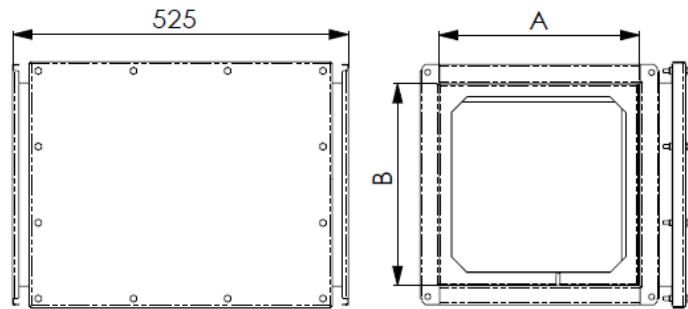


Structure and dimensions

As a standard the filter housing is made of hot-galvanised steel sheet and is finished with powder coating (RAL 9003). The filter box is equipped with E30 duct connection bar and two pressure meter end pieces. As a special order filter boxes may also be made of stainless steel and acid-proof material.

If required, a filter pressure manometer may be ordered as option. This shows the pollution level of the HEPA filter. Depending on the filter type and filtering class the maximum recommended filter resistance is 600Pa.

We manufacture filter boxes in three standard sizes, the specification of which is shown in the following table.



HEPA-filter sizes	A	B
305x305x292	315	315
305x610x292	315	620
610x610x292	620	620

Product codes

FFH	L
Marking	HEPA filter size

Example: FFH 305x305x292

Other materials:

H – acid-proof steel according to the standard EVS-EN 10088-2:2005, EN 1.4436 or AISI 316;

R - stainless steel according to the standard EVS-EN 10088-2:2005, EN 1.4301 or AISI 304.

Colour code – used only in case of colour different from standard. The code is chosen according to the required colour in the RAL colour chart. The standard colour is white RAL 9003.

Maintenance and use

Indoor air quality is in the first place influenced by performance of a mechanical ventilation system, where one of the most critical parts is proper maintenance of filters. With time a filter gets filled up with dust, causing obvious negative consequences. In the first place resistance of the system will increase, which reduces ventilator capacity and ventilation air volume. Another factor is that the more filters are polluted with dust, the bigger are the possibilities of generating smells and spreading of these in the ventilation system. As pollution collected in to ventilation air filters is harmful for health, filters should be replaced at least 1-2 times per year.

The maintenance and replacement frequency of filters depends on the location of the device, nature of operation and peculiarities of the air to be treated.

The following maintenance and replacement cycles are of indicative nature only.

Practised maintenance schedule of most common systems:

Pre-filters – must be changed or cleaned when pressure difference or in other words resistance is 100 Pa or bigger (in case material enables it).

Fine filters:

- Bag filters – must be changed when filter resistance is 200 Pa or bigger;
- Compact flat filters – must be changed when filter resistance is 400 Pa or bigger;
- Activated carbon filter – maximum usage time 12 months;
- HEPA or bacteriological filters – the maximum usage time is 24 months depending on usage intensity, provided pre-filters and fine filters are regularly replaced.

Filter replacement procedure

Before filter change provide yourself with the following equipment:

- Respiratory protective equipment
- Gloves
- Protective clothing
- A bag for storing used filters

- Before starting work switch off the ventilation device.
- Remove an old filter carefully from the device.
- Remove bag filters from the frame, pack them hermetically in a ventilation chamber and store immediately in a waste container.

Used air filters must not be taken loose through the building, left anywhere or stored in a waste container without packing.



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