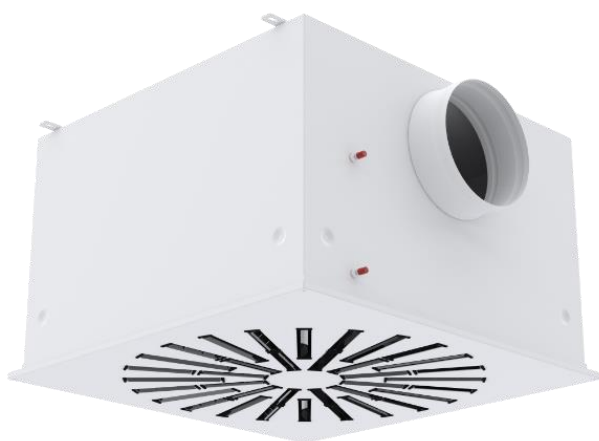


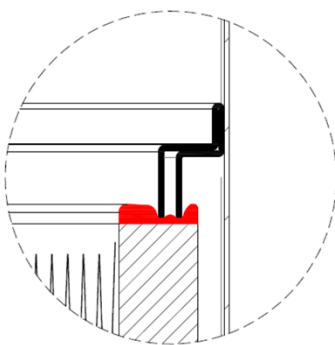


GFP
HEPA FILTER BOX

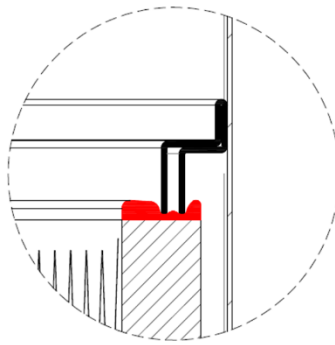
- GFP - Hepa Filter Box is designed for sterile rooms, operating rooms and clean rooms [pharmaceutical, chemical, food industries].
- All Hepa filter boxes are tested according to DIN 1946/4 during production with 100% leakage guarantee.
- GFP fully responds to application requirements with its wide product range.
- GFP has differential pressure measuring tips to measure filter contamination.
- The inside of the box is resistant to disinfection.

MATERIAL

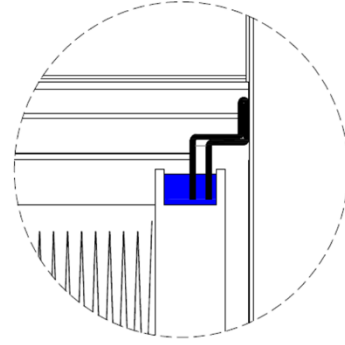
- Hepa filter box is produced from sheet steel or optional AISI 304 quality stainless sheet.
- All accessories are corrosion resistant.
- Flat profile type in hepa filter is compatible with both EPDM and Gel type seals.



Aluminium Filter Case with EPDM Sealing



MDF Filter Case with EPDM Sealing



Aluminium Filter Case filled with Gel

- MDF and Aluminum options are available for the frame of the Hepa filter. At the same time, the filter pile heights can be chosen 50 mm or 125 mm depending on the dimensions of the Hepa filter.

COLOR

- RAL 9010 or RAL 9016 Electrostatic powder paint
- Optional
 - Different RAL Codes

INSTALLATION

- Center Support Installation
- Corner Screw System Installation

DIMENSIONS

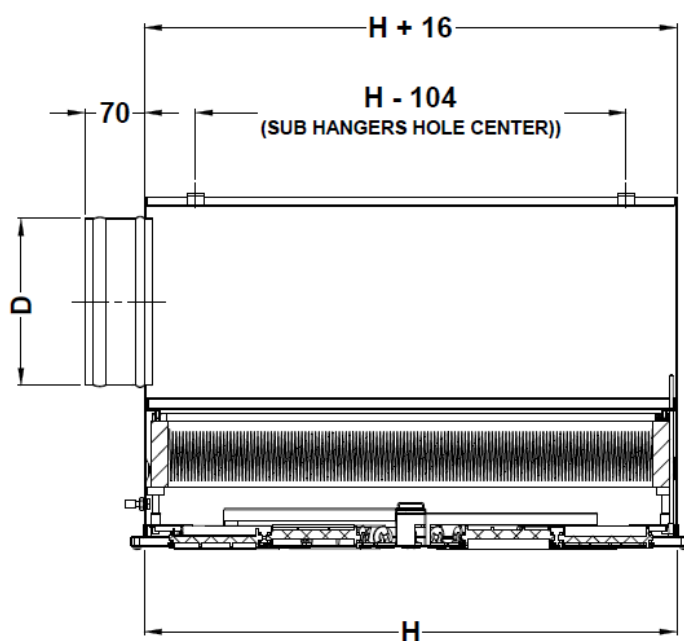
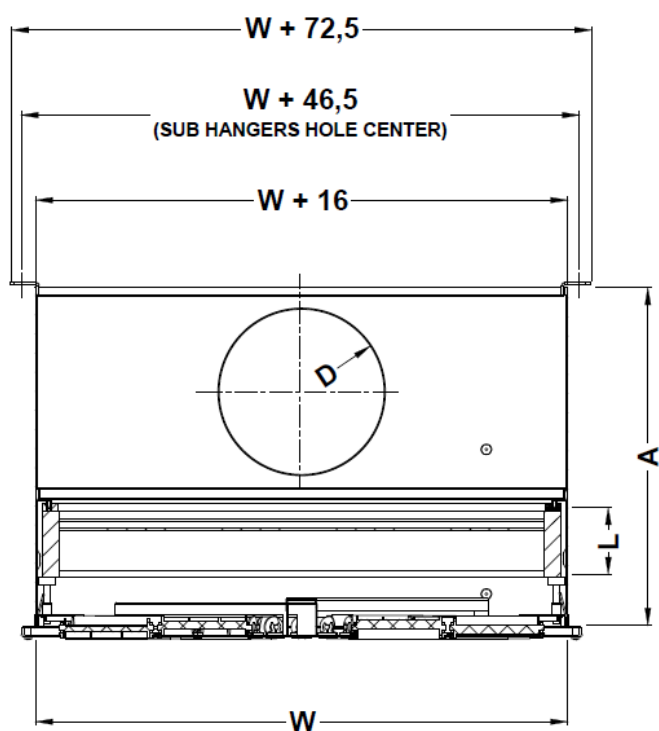


Table 1. Dimensions Table

Dimensions [W x H x Filter Height] [mm x mm x mm]	
305 x 305 x 78	305 x 305 x 149
305 x 610 x 78	305 x 610 x 149
457 x 457 x 78	457 x 457 x 149
457 x 610 x 78	457 x 610 x 149
535 x 535 x 78	535 x 535 x 149
575 x 575 x 78	575 x 575 x 149
610 x 610 x 78	610 x 610 x 149
762 x 762 x 78	762 x 762 x 149

- When L [Filter height] is 78 mm, A [Box height] = $D + 190$.
- When L [Filter height] is 149 mm, A [Box height] = $D + 270$.

PERFORMANCE DATA

Table 2. Performance Data

Dimensions [mm x mm x mm]	Pile Height [mm]	Flow rate [m³/h]	Clean Filter Pressure Loss [Pa]		Dirty Filter Pressure Loss [Pa]		Recommended Flexible Pipe Diameter [mm]
			H13	H14	H13	H14	
305 x 305 x 78	50	150	100	125	200	250	Ø125
305 x 610 x 78	50	300	100	125	200	250	Ø160
457 x 457 x 78	50	340	100	125	200	250	Ø160
457 x 610 x 78	50	450	100	125	200	250	Ø180
535 x 535 x 78	50	465	100	125	200	250	Ø180
575 x 575 x 78	50	535	100	125	200	250	Ø200
610 x 610 x 78	50	600	100	125	200	250	Ø200
762 x 762 x 78	50	940	100	125	200	250	Ø250
305 x 305 x 149	125	150	55	70	110	140	Ø125
305 x 610 x 149	125	300	55	70	110	140	Ø160
457 x 457 x 149	125	340	55	70	110	140	Ø160
457 x 610 x 149	125	450	55	70	110	140	Ø180
535 x 535 x 149	125	465	55	70	110	140	Ø180
575 x 575 x 149	125	535	55	70	110	140	Ø200
610 x 610 x 149	125	600	55	70	110	140	Ø200
762 x 762 x 149	125	940	55	70	110	140	Ø250

Not: The values in the table are valid when the filter face velocity is 0.45 m/s

AIR DISTRIBUTOR DATA

Table 3. Air Distributor Data

Hepa Filter Box Dimensions [mm x mm]	Air Distributor	Air Distributor Dimensions [mm x mm]	Maximum Flow Rate [m³/h]	Pressure Loss [Pa]
305x305	OSB - Prismatic Swirl Diffuser	355x355	150	20
	OAK - Square Ceiling Diffuser	201x201		3
305x610	OSB - Prizmatik Swirl Difüzör	355x660	300	38
	OAP - Prismatic Ceiling Diffuser	201x506		4
457x457	OSB - Prismatic Swirl Diffuser	507x507	340	14
	OAK - Square Ceiling Diffuser	353x353		2
457x610	OSB - Prizmatik Swirl Difüzör	507x660	450	25
	OAP - Prismatic Ceiling Diffuser	353x506		2
535x535	OSB - Prismatic Swirl Diffuser	585x585	465	13
	OAK - Square Ceiling Diffuser	431x431		2
575x575	OSB - Prismatic Swirl Diffuser	625x625	535	18
	OAK - Square Ceiling Diffuser	471x471		2
610x610	OSB - Prismatic Swirl Diffuser	660x660	600	23
	OAK - Square Ceiling Diffuser	506x506		2
762x762	OSB - Prismatic Swirl Diffuser	812x812	940	20
	OAK - Square Ceiling Diffuser	658x658		4

INSTALLATION

EXPLODED VIEW

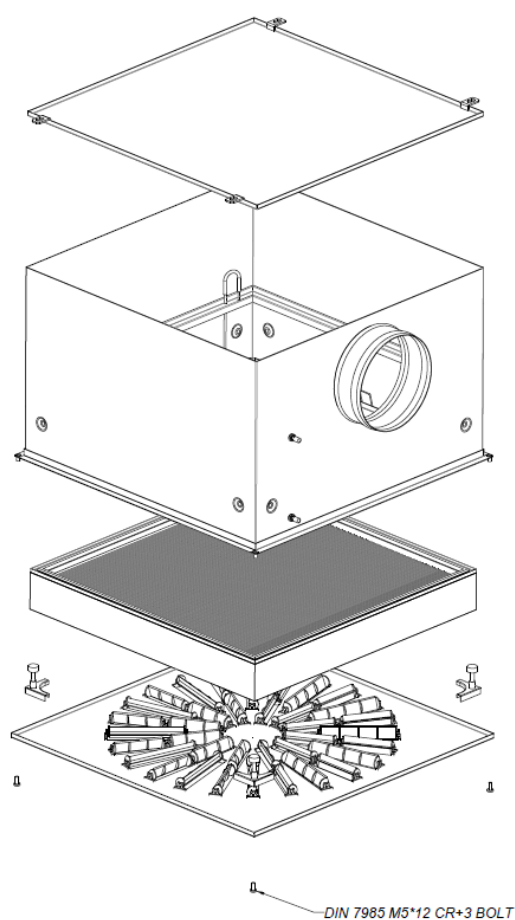


Figure 1. Corner Screw System Installation

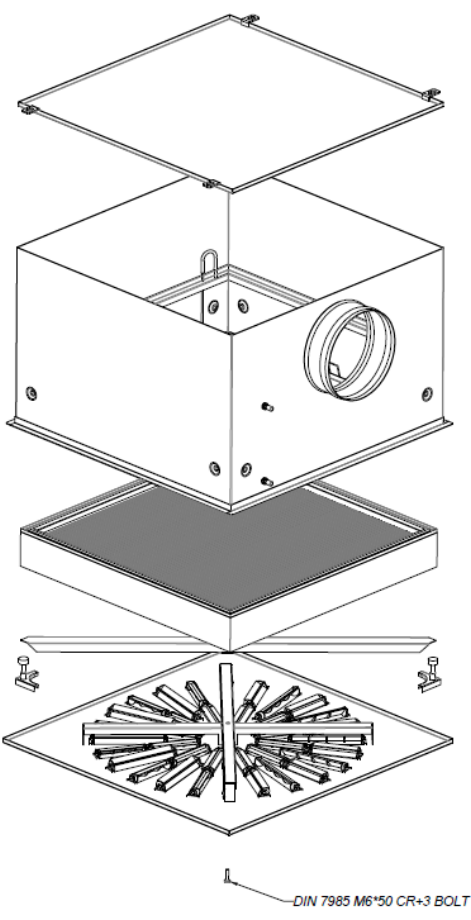
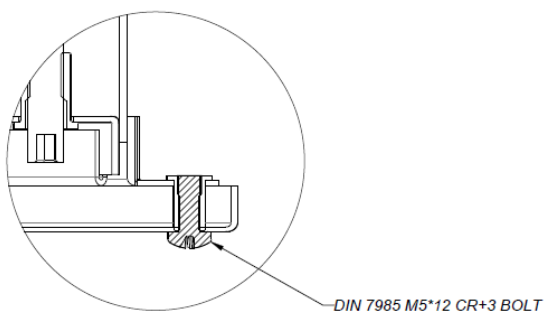
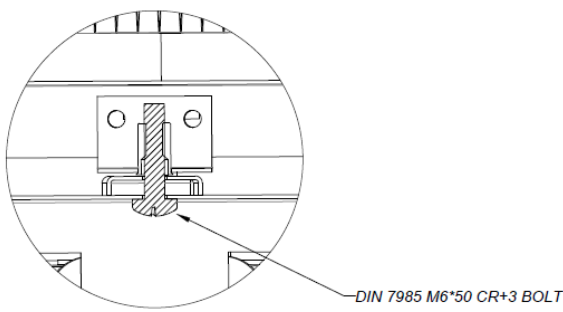


Figure 2. Center Support Installation

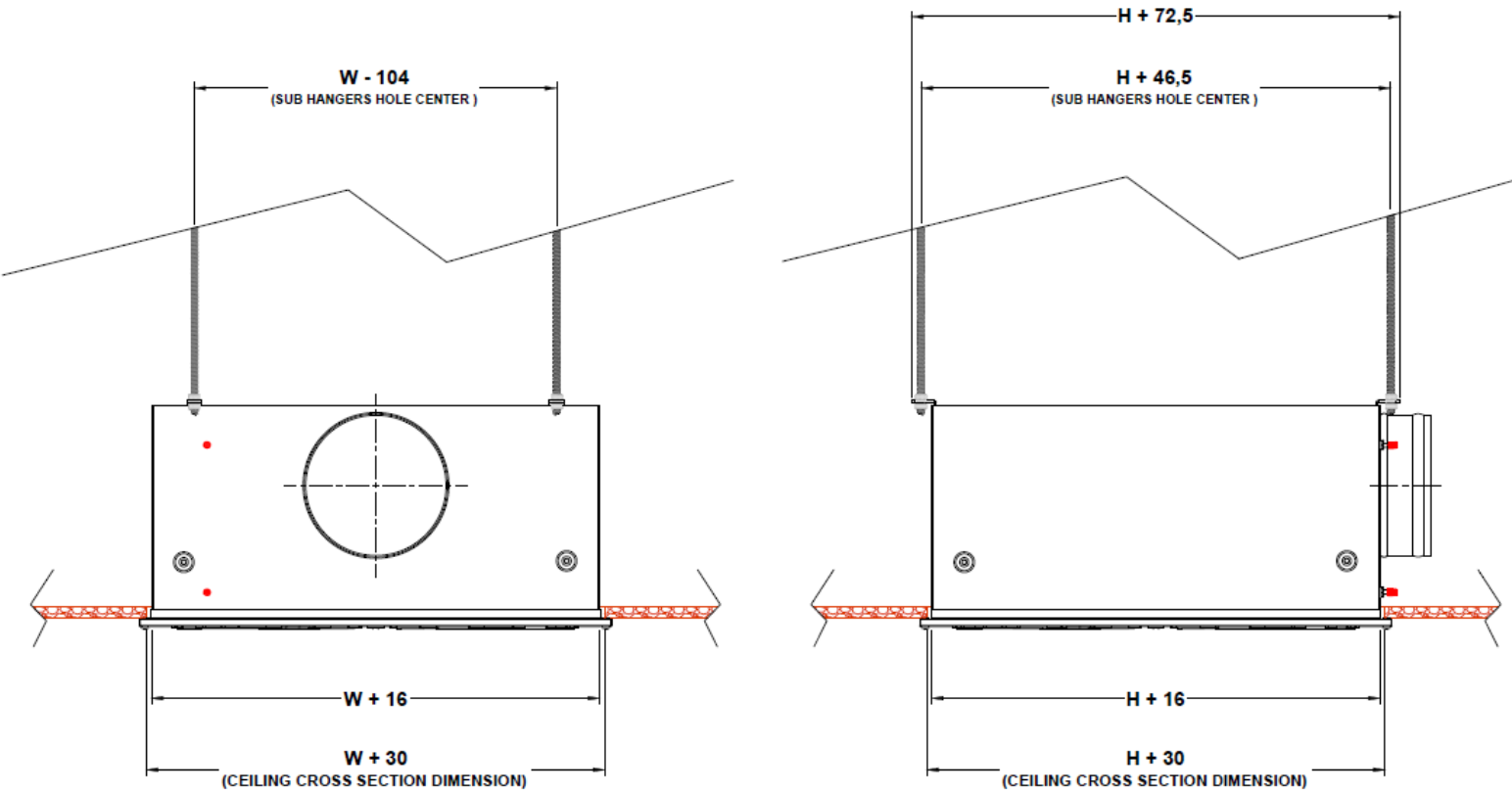
Corner Screw System Installation Detail



Center Support Installation Detail



Hanging Lugs Installation Detail



PRODUCT SELECTION

Example: Supply flow rate of Hepa filter is determined as 450 m³/h. H13 filter type with a pleat height of 50 mm will be selected. Swirl diffuser will be used as air distribution equipment.

Solution: From the performance data table [Table 3] for 450 m³/h flow rate, appropriate size:

457 x 610 x 78

Corresponding clean filter pressure loss is 100 Pa.

For the air distributor data to be used in the product, the air distributor table [Table 4] is referenced. For the swirl diffuser, there is a pressure loss of 20 Pa at 450 m³/h air flow.

Total pressure loss = Filter Pressure Loss + Air Distributor Pressure Loss

Total pressure loss = 100 Pa + 20 Pa = 120 Pa.

ORDER CODE

FILTER ORDER CODE

Filter Type	Filter Frame	Filter Height [mm]	Dimensions [mm x mm]							
			305 x 305	305 x 610	457 x 457	457 x 610	535 x 535	575 x 575	610 x 610	762 x 762
H13	MDF Frame	78	F01	F09	F02	F94	F03	F04	F05	F20
	EPDM Sealing	149	F07	F48	F06	F94	F08	F14	F17	F20
	Aluminium Frame	78	F21	H11	F22	H13	F23	F43	F24	F89
	EPDM Sealing	149	H01	F46	H02	H17	F93	H03	F91	H19
	Aluminium Frame	78	F27	H21	F28	H22	F29	F30	F31	H23
	GEL Sealing	149	H24	H25	H26	H27	H28	H29	H30	H31
H14	MDF Frame	78	F60	F66	F61	H08	F62	F63	F64	F75
	EPDM Sealing	149	F68	H09	F69	H10	H04	F82	F65	F75
	Aluminium Frame	78	F97	H12	F96	H14	F95	F18	F15	H15
	EPDM Sealing	149	H05	H16	H06	H18	F88	H07	F25	H20
	Aluminium Frame	78	H32	H33	H34	H35	H36	H37	H38	H39
	GEL Sealing	149	H40	H41	H42	H43	H44	H45	H46	H47

You can place your orders according to the following coding format.

GFP.< A > . < B > . < C > . < D > . < E > . < F >

A	Material Type	
	DKP	Sheet Steel
	PAS	AISI 304 Stainless Steel
B	Filter	
	F00	Without Filter
	XXX	See the filter order code table
C	Installation	
	GC	Center Support Installation
	KM	Corner Screw System Installation
D	Width [W] [mm]	
	0000	Standard Dimensions
E	Height [H] [mm]	
	0000	Standard Dimensions
F	Flexible Pipe Diameter [Ø] [mm]	
	100 - 125 - 150 - 160 - 180 - 200 - 229 - 250 - 255 - 280 - 300 - 315 - 350 - 356	

Example;

GFP.DKP.F03.KM.0535.0535.0078.180