



# HPA

Terminal **Filter Housing**

## Description

The HPA terminal filter housings are made for ceiling applications in hygienic places. They are suitable for use with the standard 78, 150, and 292 mm high HEPA filters. They can be used for supply or extract.

## Properties

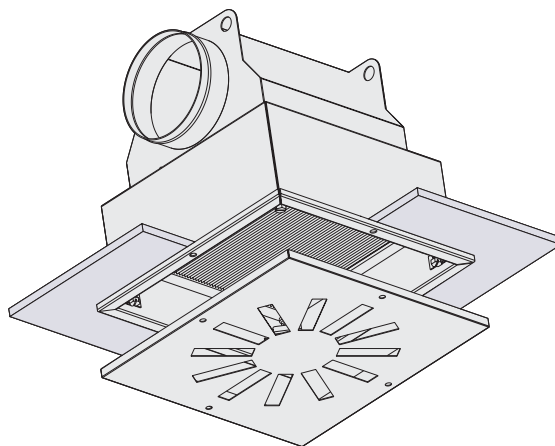
HPA terminal housings can be used in different ceiling applications. They are suitable for use with panels of gridded ceilings. The whole casing is produced with airtight welded construction. On request, it is possible to install an airtight shutoff damper to the inlet. Filter assembling and disassembling are easy. The housing has test points for filter clogging and gasket leakage as standard. HPA terminal housings are manufactured by welding of steel sheets. There are four different sizes for each of the three filter element heights. The filter element can be changed easily by removing the diffuser, which can be of various types. It is possible to design and manufacture special and different types of terminal housings upon request.

## Materials

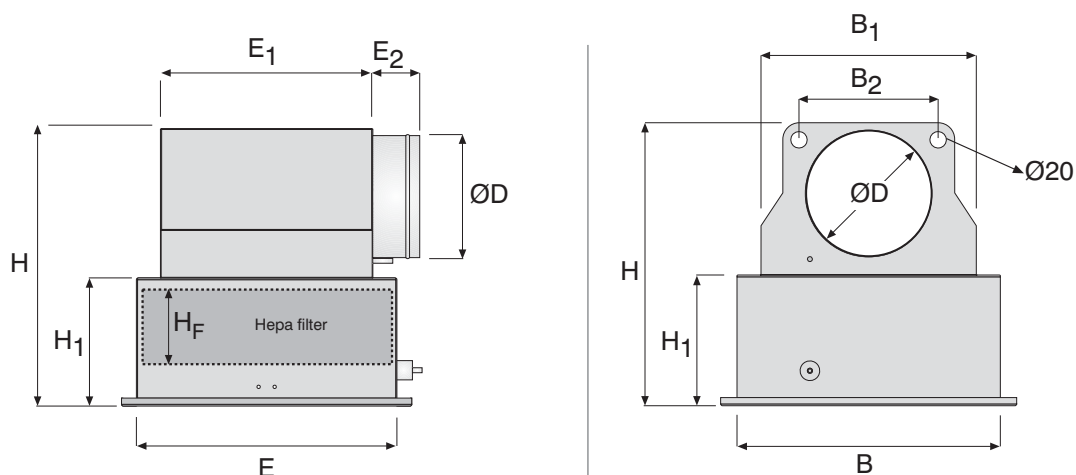
The frame and the blades are made from 1.5 mm thick steel sheets by welding.

## Surface Treatment

After cleaning, the product is phosphated and then painted with electrostatic powder paint to 20% gloss RAL 9010 (white) with a minimum thickness of 60µ.



## Dimensions



### Standard Dimensions

#### HPA.01

Standard Filter Dimensions ( $E_F \times B_F \times H_F + 8^*$ )	Housing Dimensions						
	E/B (mm)	$E_1/B_1$ (mm)	$E_2$ (mm)	ØD (mm)	$H_1$ (mm)	H (mm)	$B_2$ (mm)
305 x 305 x 78 + 8	323	270	80	150 (flex 160)	155	345	170
457 x 457 x 78 + 8	475	422	80	193 (flex 203)	155	380	255
575 x 575 x 78 + 8	593	539	80	244 (flex 254)	155	435	345
610 x 610 x 78 + 8	628	575	80	244 (flex 254)	155	435	345

#### HPA.02

Standard Filter Dimensions ( $E_F \times B_F \times H_F + 8^*$ )	Housing Dimensions						
	E/B (mm)	$E_1/B_1$ (mm)	$E_2$ (mm)	ØD (mm)	$H_1$ (mm)	H (mm)	$B_2$ (mm)
305 x 305 x 150 + 8	323	270	80	150 (flex 160)	227	418	170
457 x 457 x 150 + 8	475	422	80	193 (flex 203)	227	452	255
575 x 575 x 150 + 8	593	539	80	244 (flex 254)	227	508	345
610 x 610 x 150 + 8	628	575	80	244 (flex 254)	227	508	345

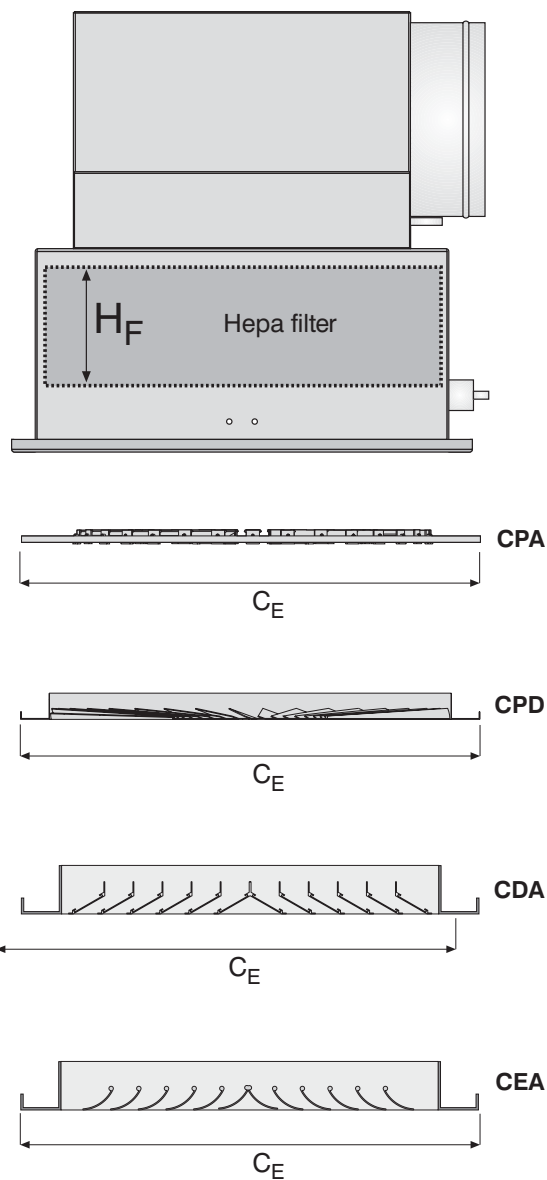
#### HPA.03

Standard Filter Dimensions ( $E_F \times B_F \times H_F + 8^*$ )	Housing Dimensions						
	E/B (mm)	$E_1/B_1$ (mm)	$E_2$ (mm)	ØD (mm)	$H_1$ (mm)	H (mm)	$B_2$ (mm)
305 x 305 x 292 + 8	323	270	80	150 (flex 160)	369	559	170
457 x 457 x 292 + 8	475	422	80	193 (flex 203)	369	594	255
575 x 575 x 292 + 8	593	539	80	244 (flex 254)	369	649	345
610 x 610 x 292 + 8	628	575	80	244 (flex 254)	369	649	345

\* Gasket Height

## Diffuser Dimensions

The diffuser shown can be used with the HPA terminal housings.



Standard Filter Dimensions ( $E_F \times B_F$ )	Diffuser Dimensions $C_E$ (mm)			
	CPA	CPD	CDA	CEA
305 x 305	370 x 370	370 x 370	370 x 370	370 x 370
457 x 457	520 x 520	520 x 520	520 x 520	520 x 520
575 x 575	640 x 640	640 x 640	640 x 640	640 x 640
610 x 610	670 x 670	670 x 670	670 x 670	670 x 670

## Technical Data

## HPA.01

Standard Filter Dimensions ( $E_F \times B_F \times H_F + 8^*$ )	Max.air flow rate $V \text{ (m}^3/\text{h)}$	Min. pressure loss $\Delta P \text{ (Pa)}$
305 x 305 x 78 + 8	290	250
457 x 457 x 78 + 8	660	250
575 x 575 x 78 + 8	1050	250
610 x 610 x 78 + 8	1200	250

## HPA.02

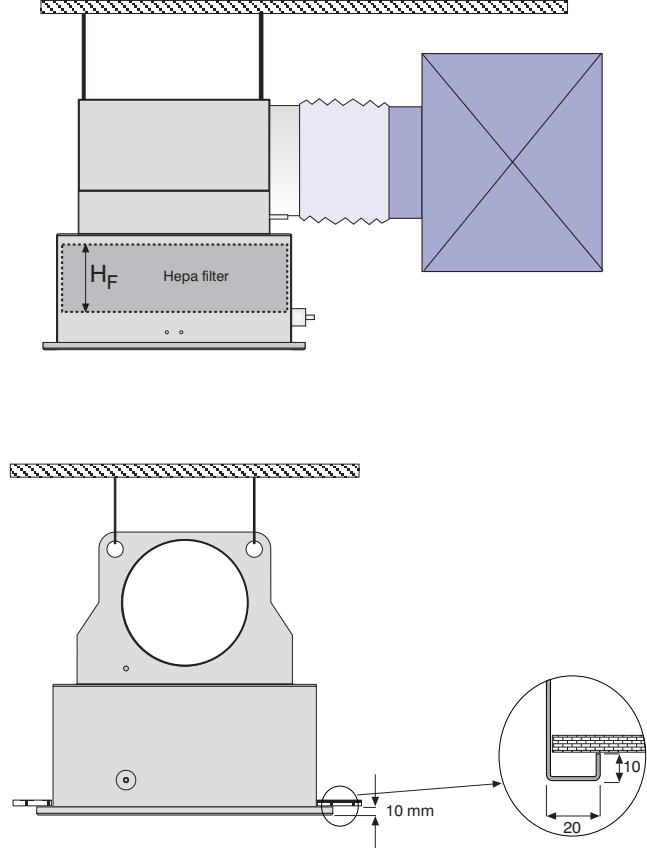
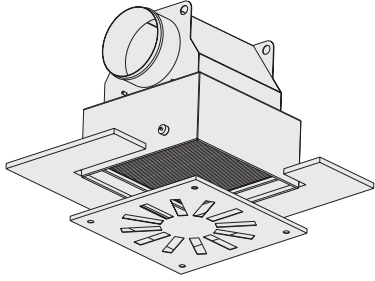
Standard Filter Dimensions ( $E_F \times B_F \times H_F + 8^*$ )	Max.air flow rate $V \text{ (m}^3/\text{h)}$	Min. pressure loss $\Delta P \text{ (Pa)}$
305 x 305 x 150 + 8	450	250
457 x 457 x 150 + 8	940	250
575 x 575 x 150 + 8	1850	250
610 x 610 x 150 + 8	2095	250

## HPA.03

Standard Filter Dimensions ( $E_F \times B_F \times H_F + 8^*$ )	Max.air flow rate $V \text{ (m}^3/\text{h)}$	Max.air flow rate $V \text{ (m}^3/\text{h)}$
305 x 305 x 292 + 8	490	250
457 x 457 x 292 + 8	1080	250
575 x 575 x 292 + 8	2100	250
610 x 610 x 292 + 8	3000	250

## Installation

HPA type terminal housings are suitable for false ceilings. They can be hung to the ceiling by the use of hanging holes present on the body. They are connected to the main duct by means of flexible ducts.



Specification Text

Terminal housings for hygienic system applications. The housings will be made from 1.5 mm thick steel sheets and manufactured by airtight welding. The housings will be made for installation of HEPA filters. There will be test points for filter clogging and gasket leakage on the housings. The housings will be suitable to accept

different types of diffusers. The housings will be phosphated, and then painted with electrostatic powder paint with a minimum thickness of 60µ. Optionally, airtight shutoff dampers, conforming to DIN 1946 Part 4 standard, will be installed on the housings. These dampers will be operated manually or by a servomotor.

Order Code

Model	HPA.01.AA.00-305-9010/XX					
Filter Code	01...H <sub>F</sub> =78 mm 02...H <sub>F</sub> =150 mm 03...H <sub>F</sub> =292 mm 04...Special filter height		Refer to page 3		Indicate RAL Colour Code	Indicate filter height
Accessories	AA..Without damper BA..With shutoff damper		Standard Dimensions		Colour Code	

**H**

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