

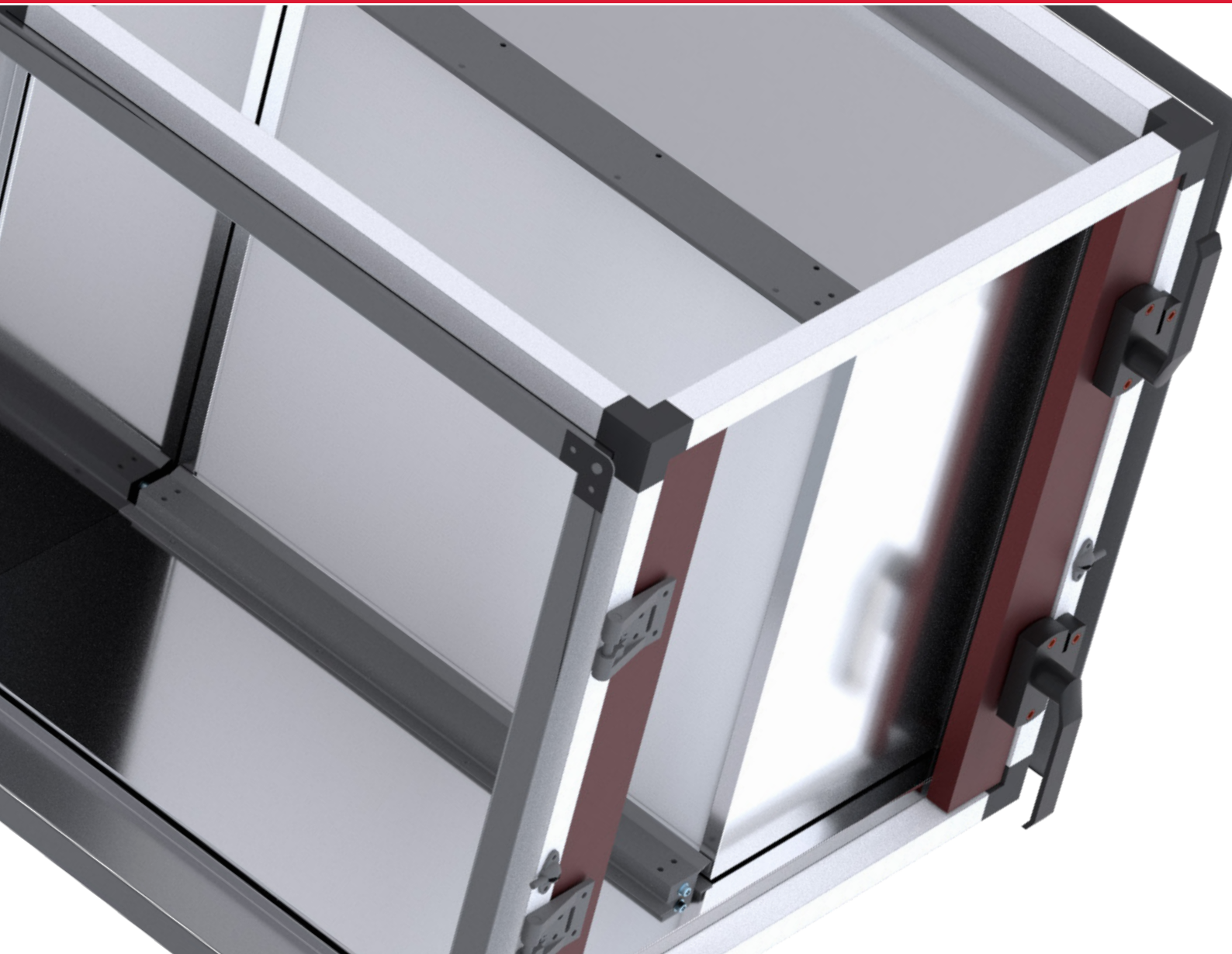


Bringing clean air to life:

# High Purity Filtration Solutions

## Cleanroom Components

### **AstroDuct HEPA®** Ducted Filter Housing for HEPA Filters



# AstroDuct HEPA

## HEPA FILTER HOUSING

### Product Description

AstroDuct HEPA is a flexible and compact range of filter housings for (H)EPA filters and other filter types with 292 mm depth. The cover is a sandwich design with 50 mm heat and condensation insulation between, covered with Aluzinc sheet metal inside and outside (corrosivity class C4). The service hatch is hinge mounted. The continuous gasket on the inside of the service hatch, makes it highly airtight. The filter housing is supplied with a guide connection and a flange connection is available as an option. Hinged access doors are provided on the filter section to allow ease of access for installation and removal of HEPA filters. Access doors have the same construction as the enclosure panels described above. The access doors are equipped with “twist and clamp” style locking handles that clamp the door into position after the door has been closed.



### Features and Benefits

- Filter housing for HEPA filters up to a maximum depth of 440 mm
- Made from Aluzinc
- Thickness of insulation: 50 mm
- Door hinged on the left or right
- Can accommodate multiple filters
- Aluminum profile construction



Designed to take full size (610 mm width or height) and half size filters (305 mm width or height) with a maximum depth of 440 mm. Installation of V-shaped filters is also possible.

### Applications

- Intended for regular airflow in commercial, industrial and institutional applications
- Final filtration in general air handling units
- HEPA filtration for critical cleanroom applications
- Upgrading of existing systems for improved indoor air quality and energy efficiency



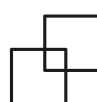
Commercial



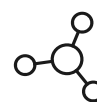
Industrial



Institutional



AHU



CleanRooms

## Filter Housing Configuration

Housing	Manufactured with profiles with insulated panels in between
Panels	50 mm insulated panels with a metal thickness of 0.8 mm
Construction	Profile construction
Flanges	P 20 connections
Pressure drop fittings	Includes for 2 pressure tapping point to monitor the pressure drop over the filter
Filter clamping	Filter clamping arrange suitable for HEPA filters with a depth of 292 mm
Door	Door is airtight, secured to the housing by means of twist and clamp
Leakage class	L1 according to EN 1886:2007

## Standard Sizes

Housing name	Housing Dimensions (mm)			Flange Dimensions (mm)		Casing Inside (mm)		HEPA Filter Dimensions (mm)			
	W	H	D	W	H	W	H	610x610	610x305	305x610	305x305
AD_HEPA_0.5x0.5	409	409	700	344	344	311	309	-	-	-	1
AD_HEPA_0.5x1	409	714	700	344	649	311	614	-	-	1	-
AD_HEPA_1x0.5	714	409	700	649	344	616	309	-	1	-	-
AD_HEPA_1x1	714	714	700	649	649	616	614	1	-	-	-
AD_HEPA_1x1.5	714	1055	700	649	990	616	955	1	1	-	-
AD_HEPA_1x2	714	1360	700	649	1295	616	1260	2	-	-	-
AD_HEPA_1x3	714	2005	700	649	1940	616	1905	3	-	-	-
AD_HEPA_1.5x1	1020	714	700	955	649	922	614	1	-	1	-
AD_HEPA_2x1	1325	714	700	1260	649	1227	614	2	-	-	-
AD_HEPA_2x1.5	1325	1055	700	1260	990	1227	955	2	2	-	-
AD_HEPA_2x2	1325	1360	700	1260	1295	1227	1260	4	-	-	-
AD_HEPA_2x3	1325	2005	700	1260	1940	1227	1905	6	-	-	-

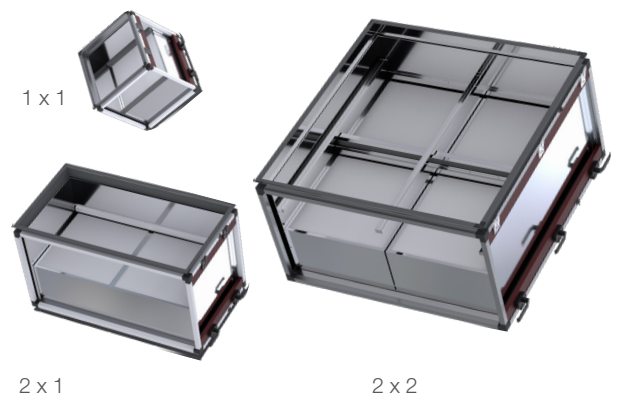
Note: Other dimensions available upon request

## Design examples of typical sizes

Front side view



Back side view ( removed panels)



# AstroDuct HEPA

## HOUSING AND FILTER SELECTION

### Selection Table

Item	Component	Component Code Definition
A	Housing Type	AD HEPA
B	Filter Type	HEPA Dry Gasket 610x610x149 mm
		HEPA Dry Gasket 610x610x292 mm
C	Housing Size	0.5x0.5
		0.5x1
		1x0.5
		1x1
		1x1.5
		1x2
		1x3
		1.5x1
		2x1
		2x1.5
		2x2
		2x3
		All housings are made of Aluznic

### How to Order

Item	A	B	C
Components	AD HEPA	HEPA Dry Gasket 610x610x292 mm	1 x 1

### Filter Options

Particulate filters shall be supported in side access clamping arrangements designed solely for flanged filters. The clamping arrangement is designed to hold 292 mm deep HEPA filter series in filter class H13 or H14 according EN 1822:2019.w

Outside filter dimensions [mm] W x H x D	Depending on the housing dimension selected, only full size (610 mm width or height) and half size filters (305 mm width or height) with a maximum depth of 292 mm can be installed.
Tolerance outside filter dimensions [mm]:	+ 1.5
Tolerance pressure drop (%):	± 15%
Overall efficiency:	according ISO 1822:2019

# Filter Recommendations

## PROVIDING HIGH-EFFICIENCY

### MegaCel III

- Available in efficiency classes  $\geq 99,95\%$  and  $\geq 99,995\%$  for MPPS (H13 and H14 to EN1822:2009)
- High airflow solution up to 5000 m<sup>3</sup>/h with AAF's unique ePTFE and eFRM filtration technology
- Optimizing particulate contamination control for enhanced air quality in critical environments
- Increased sustainable performance with up to 50% energy savings and fully incinerable optional ABS plastic frame construction
- High operational stability through low filter media damage risk and rigid frame construction



### AstroCel III

- Available in efficiency classes E12 - H14 (EN1822:2009)
- Ideal for demanding operating conditions in critical applications
- Longer service life means fewer change-outs
- Low energy consumption and lower operating costs
- High-capacity operation with minimal resistance to airflow
- Chemical-resistant anodised aluminium frame provides superior strength
- One-piece polyurethane gasket seal and gel seal designs available



### BioCel III

- Classification E11 to EN1822:2009
- 4000 m<sup>3</sup>/h air capacity
- Low energy consumption
- Long service life



### AstroPak

- Available in efficiency classes H13 and H14 (EN1822:2009)
- Individually tested for certified performance
- Hot-melt separator-style glass media pack
- No metal in airstream
- Particle board frame



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