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High Purity Filtration Solutions

Terminal Housings

AstroHood TM
Terminal Filter Module with replaceable HEPA/ULPA Filter

AstroHood TM

TERMINAL HOUSINGS

Product Description

The AstroHood TM is a terminal housing for HEPA and ULPA filters. As part of the TM series of products, it provides a low profile, low weight and highly flexible solution for cleanroom applications. The AstroHood TM shares a similar construction to HEPA filters utilising anodized aluminium to provide a robust and corrosion resistant product well suited for installation in ceiling grid systems.
The AstroHood TM is designed to work with AstroCel II and MEGAcel II HEPA/ULPA filters and incorporates an integral knife edge profile to provide a leak free interface with the filter gel seal. The AstroHood TM is fully sealed and is supplied with an integrated flange for connection to ductwork.

Features and Benefits

- Compact solution for applications with limited space
- Lightweight and easy to install
- Simple room side change of filter elements
- Optional features including suspension points and integrated dampers.

Applications

The AstroCel TM filter is a self-contained module, designed for use in turbulent mixing and laminar airflow cleanroom areas. The unit is designed for installation in ceiling grid systems. The lightweight unit is easy to install. Typical applications include cleanrooms ISO EN 14644-1, Class 5 and higher, in industries such as:

Pharmaceuticals | Aerospace | Biotechnology | Optics | Medical devices | Healthcare | Food & Beverage

Standard Sizes and Ratings

Size in mm without gasket			Nominal airflow (0,45 m/s)	
H	W	D	m³/h	m³/s
L-series Dry Seal				
610	610	183	600	0,17
610	915	183	900	0,25
610	1220	183	1200	0,33
610	610	207	600	0,17
610	915	207	900	0,25
610	1220	207	1200	0,33
570	570	183	525	0,15
570	870	183	805	0,22
570	1170	183	1080	0,30
570	570	207	525	0,15
570	870	207	805	0,22
570	1170	207	1080	0,30

Notes
1) Depth does not include spigot. Spigot depth is between 60-80mm depending on options.
2) Overall height incl. 20 mm knife-edge.
3) Standard flange is DN 250.
4) Other sizes and executions available upon request.
5) Recommended final resistance: 500 Pa.
6) Temperature limit: 70℃.

Selection Table

Component	Options
Construction	**Anodized aluminium extrusion, dry seal profile**
Flange	200 mm **250 mm** 315 mm 355 mm
Options	*Other sizes available on request* Upstream measurement ports Volume control damper Suspension points

Bold typeface: standard execution.

Initial resistance table at nominal airflow (0,45 m/s) when fitted with MEGAcel II

Depth (mm)	Media pack depth (mm)	Class	
		H13	H14
183	50	55	70

Pressure drop values for filter media only. For hood construction with perforated plate add 20 Pa at 0,45 m/s

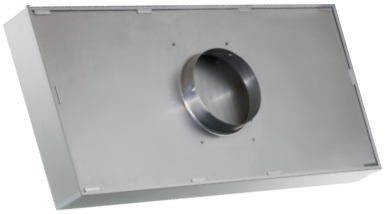
Initial resistance table at nominal airflow (0,45 m/s) when fitted with AstroCel II

Depth (mm)	Media pack depth (mm)	Class			
		H14	U15	U16	U17
183	48	110	145	165	-
207	96	70	80	90	110

Pressure drop values for filter media only. For hood construction with perforated plate add 20 Pa at 0,45 m/s

Related Products

AstroCel TM

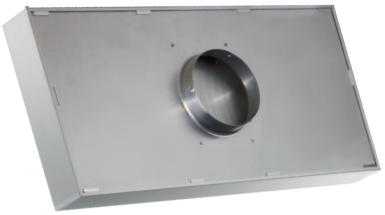


Features and Benefits

The AstroCel TM incorporates AAF's AstroCel II HEPA filter directly into the AstroHood TM frame. The filter is sealed into the housing in the factory before testing to EN1822 to ensure a fully sealed HEPA filter hood.

- Lightweight and easy to install
- Compact solution for applications with limited space
- Filter classes E12 - U17 to EN1822

MEGAcel TM

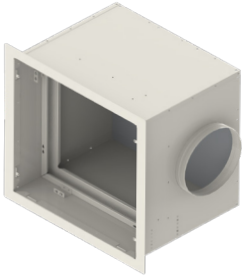


Features and Benefits

The MEGAcel TM incorporates AAF's class-leading MEGAcel II product directly into the AstroHood TM frame. The filter is sealed into the housing in the factory before testing to EN1822 to ensure a fully sealed HEPA filter hood.

- Low pressure drop from MEGAcel media
- Durable and chemically resistant membrane technology
- Lightweight and easy to install
- Compact solution for applications with limited space
- Filter classes H13–U16 to EN1822

AstroHood II



Features and Benefits

The AstroHood II range of terminal HEPA filter housings provide a robust filter housing for permanent integration into cleanroom ceilings. Available in a wide range of standard sizes and designed for fitment with diffusers.

- Available in dry or gel seal executions
- Available with top or side inlets
- Powder coated mild steel as standard, but available in fully welded and stainless steel executions
- Integrated diffuser.

AAF International Plant Locations

AAF, the world's largest manufacturer of air filtration solutions, operates production, warehousing and distribution facilities in 22 countries across four continents. With its global headquarters in Louisville, Kentucky, AAF is committed to protecting people, processes and systems through the development and manufacturing of the highest quality air filters, filtration equipment, and associated housing and hardware available today.

Contact your local AAF representative for a complete list of AAF Air Filtration Product Solutions.

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