



Bringing clean air to life:

# High Purity Filtration Solutions

**Supply Housings and  
HEPA/ULPA Filters**

**AstroHood® III  
Hermetically sealed HEPA and ULPA Terminal Filter Hood**



# AstroHood® III

## HERMETICALLY SEALED HEPA AND ULPA TERMINAL FILTER HOOD

### Product description

The AstroHood III Terminal Filter Hood is a hermetically sealed ceiling filter module, with AstroCel II HEPA / ULPA filter media packs as integral part of the housing. AstroHood III is designed for utilization in the AAF 50 mm Tbar grid and the AAF 55/70 ceiling grid systems. AstroHood III filters can also be used in compatible ceiling grid systems.

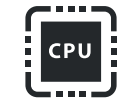
The lightweight unit is easy to install from the top or through the grid from the room side. Individual flexible ducts from the supply air system connect to the spigot of the terminal hood.

### Features and Benefits

- Designed for the use in cleanrooms
- Filter classes H14, U15, U16 and U17 to EN1822:2009
- Lightweight and easy to install
- Hermetically closed construction
- Knife edge, gel seal and dry seal execution
- Filters for ultra clean environments

### Applications

The AAF AstroHood III TM filter is a self-contained module, designed for use in turbulent mixing and laminar airflow cleanroom areas. The unit is designed for utilization in the AAF 50 mm, 55 mm T-Bar ceiling grid and compatible ceiling grids. The lightweight unit is easy to install. Typical applications include cleanrooms ISO EN 14644-1, Class 5 and higher. Typical applications include for example:



Microelectronics



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
<b>Style 98</b>				
570	570	145	525	0,15
570	870	145	805	0,22
570	1170	145	1070	0,30
570	570	198	525	0,15
570	870	198	805	0,22
570	1170	198	1070	0,30
<b>Style 99</b>				
610	610	125	600	0,16
610	915	125	900	0,25
610	1220	125	1200	0,33
610	610	178	600	0,16
610	915	178	900	0,25
610	1220	178	1200	0,33



#### Notes

- 1) Add 65 mm for collar.
- 2) Overall height incl. 20 mm knife-edge.
- 3) Other knifedge length available upon request.
- 4) Standard inlet collar is DN 250.
- 5) Other sizes and executions available upon request.
- 6) Recommended final resistance: 500 Pa.
- 7) Temperature limit: 70°C.

## Selection Table

Item	Component	Component Code Definition
A	Type of Filter	<b>TM = Terminal Hood</b>
B	Media*	<b>A = Waterproof glass fibre</b> E = Waterproof glass fibre M = Waterproof glass fibre
C	Cell Sides	98 = Anodized aluminium extrusion, Knife-Edge skirt profile <b>99 = Anodized aluminium extrusion, standard profile</b>
D	Gasket	L = Knife-Edge skirt <b>P = No gasket</b> S = 5 mm, half round profile, one piece foamed
E	Gasket Location	<b>0 = No gasket</b> 2 = Air leaving side
F	Acceptance Level	<b>R = H14 Min. 99,995%, @ MPPS acc. to EN1822:2009</b> M = U15 Min. 99,9995%, @ MPPS acc. to EN1822:2009 N = U16 Min. 99,99995%, @ MPPS acc. to EN1822:2009 T = U17 Min. 99,999995%, @ MPPS acc. to EN1822:2009
G	Faceguard Location	0 = No faceguard, maximum size 610 x 1220 mm and or 762 x 915 mm <b>2 = Gasket side only, media pack gasket side</b>
H	Options	D = Divider DD = Divider and damper DG = Divider and volume control damper L = Laminar cloth

*Bold typeface: standard execution. \* To be determined by AAF engineering*

### How to Order

Below is a typical example of how to order a standard AstroHood III filter using the Component Code Definition System.

Item	A	B	C	D	E	F	G	H
<b>Component Definition</b>	TM	A	99	P	0	R	2	-

### Initial resistance table at nominal airflow (0,45 m/s)

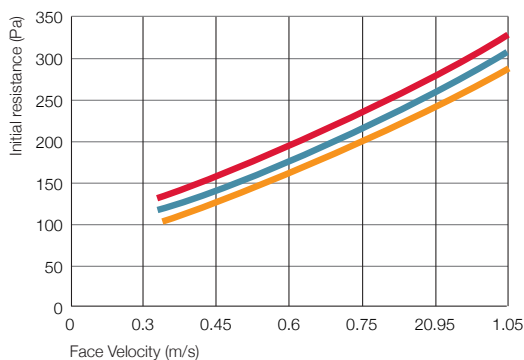
Depth (mm)	Media pack depth (mm)	Class			
		H14	U15	U16	U17
125	48	110	145	165	-
178	96	70	80	90	110

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

### Efficiency

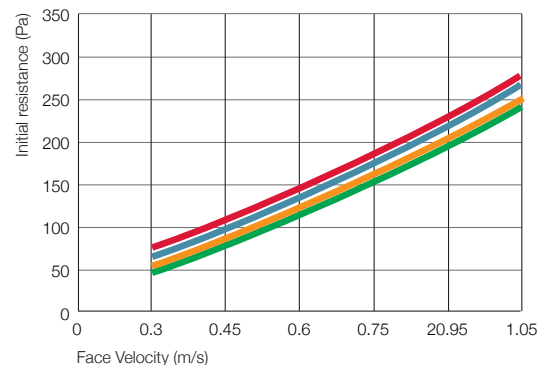
Class	H14	U15	U16	U17
Efficiency EN1822	@MPPS			
	99,995%	99,9995%	99,99995%	99,999995%
Efficiency	0,3 µm	0,12 µm		
	99,999%	99,9995%	99,99995%	99,999995%

### Performance AstroHood III, 125 or 145 mm depth



*Add 20 Pa for the hood construction @ 0,45 m/s  
Filter depth 125 or 145 mm: 48 mm media pack U16, U15, H14*

### Performance AstroHood III, 178 or 198 mm depth



*Add 20 Pa for the hood construction @ 0,45 m/s  
Filter depth 178 or 198 mm: 96 mm media pack U17, U16, U15, H14*



## 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.

### Americas

Louisville, KY  
Atlanta, GA  
Ardmore, OK  
Bartow, FL  
Columbia, MO  
Fayetteville, AR  
Hudson, NY  
Momence, IL  
Ontario, CA  
Smithfield, NC  
Tijuana, Mexico  
Votorantim, Brazil  
Washington, NC

### Europe

Cramlington, UK  
Gasny, France  
Vitoria, Spain  
Ecoparc, France  
Trencin, Slovakia  
Olaine, Latvia  
Horndal, Sweden  
Vantas, Finland

### Asia & Middle East

Riyadh, Saudi Arabia  
Shah Alam, Malaysia  
Suzhou, China  
Shenzhen, China  
Miaoli, Taiwan  
Bangalore, India  
Noida, India  
Yuki, Japan (Nippon Muki)



Bringing clean air to life.

**AAF International**  
European Headquarters  
Odenwaldstrasse 4, 64646 Heppenheim  
Tel: +49 (0)6252 69977-0  
aafintl.com

Specifications and performance data contain average values within existing production specification tolerances and are subject to change without prior notice. AAF explicitly rejects any liability for any direct or indirect damage, in the broadest sense, arising from or related to the use and/or interpretation of this information.

©2020 AAF International and its affiliated companies.  
EHU\_505\_EN\_032020