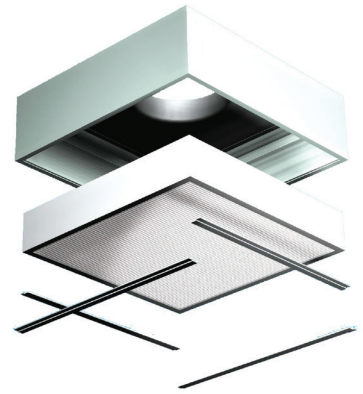


# AstroHood III RSC

## ROOM SIDE CHANGE HEPA AND ULPA TERMINAL FILTER HOOD



### Features and Benefits

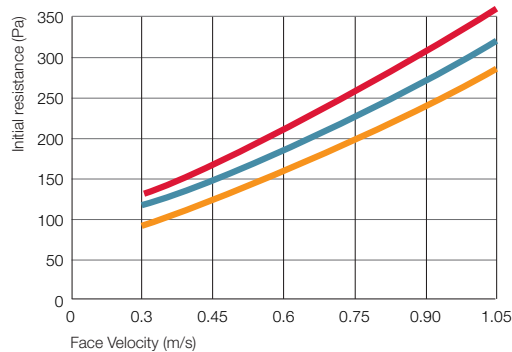
- Dedicated Cleanroom filter
- Filter classes H14, U15, U16 to EN1822:2009
- Lightweight and easy to install
- Fluid Seal filter for Room Side-Change

The AstroHood III RSC Ceiling Hood is available in the classification ranges H14, U15, U16 according to EN1822:2009 and designed to meet the stringent air quality requirements of cleanrooms. The permanent ceiling hood AstroHood III RSC comes in anodized extruded cell side construction with an aluminium top plate. An inlet collar with a height of 65 mm is available in a variety of sizes; the standard sizes are deep drawn. AstroCel II Fluid Seal filters are installed from the cleanroom side and positioned with 4 support strips. The filter seals automatically with the permanent knifeedge in the hood.

### The AstroHood III RSC provides many user benefits including:

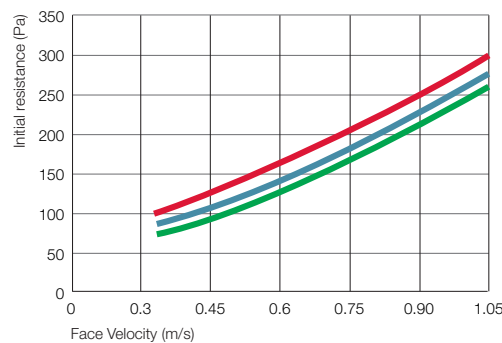
- Light weight and easy to install construction.
- Factory tested and certified filter.
- Easy room-side change of filter elements.
- Suspension points (optional)

### Resistance vs Airflow



Add 15 Pa to initial resistance for hood construction.  
Filter depth 125 or 145 mm: 48 mm media pack  
U16, U15, H14

### Resistance vs Airflow



Filter depth 178 or 198 mm: 72 mm media pack  
U16, U15, H14

# AstroHood III RSC Filter

## Selection Table

Item	Component	Component Code Definition
A	Type of Filter	<b>TM = Terminal Hood</b>
B	Execution	<b>RSC</b>
C	Height	<b>183 mm</b>
D	Inlet collar	200, 250, 315 and 355

Bold typeface: standard execution

## How to Order

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

Item	A	B	C	D
Component Definition	TM	RSC	183	250

## Selection Table AstroCel II FS Filter

Item	Component	Component Code Definition
A	Media*	<b>A = Waterproof glass fibre</b> E = Waterproof glass fibre M = Waterproof glass fibre
B	Cell Sides	<b>96 = Anodized aluminium extrusion, with fluid seal</b>
C	Seperators	<b>C = Thermoplastic</b>
D	Bond	<b>9 = Cold cured resin</b>
E	Gasket	<b>B = Fluid seal trough</b>
F	Gasket Location	<b>2 = One face</b>
G	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
H	Faceguard Location	<b>4 = Both sides, media pack non-gasket side</b>
I	Options	L = Stainless steel Faceguard

Bold typeface: standard execution. Recommended final resistance 500 Pa. Temperature limit: 70 °C.  
\* To be determined by AAF engineering

## How to Order

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

Item	A	B	C	D	E	F	G	H	I
Component Definition	A	96	C	9	B	2	R	4	-

## Standard Sizes and Ratings

Size in mm without gasket			Nominal airflow
H	W	D	mm
340	340	183	200
492	492	183	200
625	625	183	250
570	570	183	250
570	1170	183	250
870	1170	183	315
1170	1170	183	355

Add 65 mm for collar.

## Standard Sizes and Ratings

Size in mm without gasket			Nominal airflow (0,45 m/s)	
H	W	D	m³/h	m³/s
305	305	104	150	0,04
457	457	104	340	0,09
590	590	104	575	0,16
535	535	104	470	0,13
535	1135	104	972	0,27
835	1135	104	1550	0,43
1135	1135	104	2090	0,58

Other sizes available on request

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

Depth (mm)	Class		
	H14	U15	U16
104 / 48	125	145	165
104 / 72	75	105	125

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

## Efficiency

Class	Efficiency EN1822
EN1822	@MPPS
H14	99,995%
U15	99,9995%
U16	99,99995%



Bringing clean air to life:

AAF International  
European Headquarters

Robert-Bosch-Straße 30-32, 64625 Bensheim  
Tel: +49 6251 80368 – 0, Fax +49 6251 80368 – 20  
aafintl.com

AAF International has a policy of continuous product research and improvement and reserves the right to change design and specifications without notice.

©2018 AAF International and its affiliated companies.  
EHU\_506\_EN\_062018