

# AstroCel<sup>®</sup> TM Hood



**HERMETICALLY SEALED HEPA AND ULPA TERMINAL FILTER HOOD**

**Features and Benefits**

- Dedicated cleanroom filter
- Filter classes H14, U15, U16 and U17 to EN1822:2009
- Lightweight and easy to install
- Hermetically closed construction
- Knife edge and dry seal execution
- Filters for ultra clean environments

The AstroCel TM Ceiling Hood Filter is available in the classification ranges H14, U15, U16 and U17 according to EN1822:2009 and is designed to meet the stringent air quality requirements of cleanrooms. Hermetically sealed to prevent voids and leaks, the TM Hood filter can be used in individually ducted laminar and non-laminar cleanrooms. The TM Hood filter is available in a dry seal one piece gasket and knife edge execution.

**The TM Hood Filter has many benefits:**

- Lightweight and easy to install.
- Safeguards processes, workers and products.
- Factory tested and certified to meet the most stringent legal and industry requirements.
- Can be subjected to overall efficiency, scan, leak, and external reference testing.

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

Depth (mm)	Media pack depth (mm)	Class			
		H14	U15	U16	U17
125	48	125	145	165	-
178	96	75	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**

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

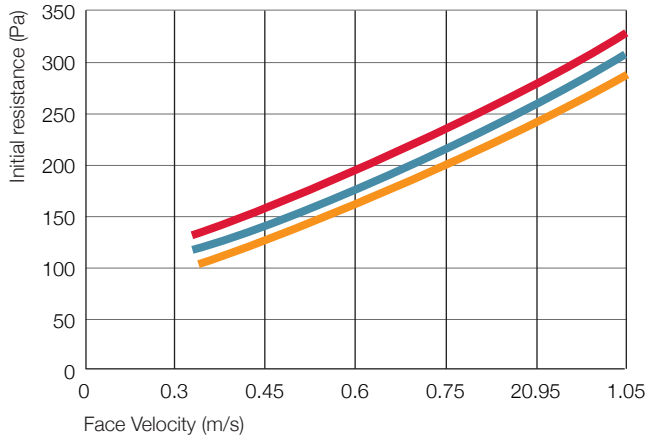
**How to Order**

Below is a typical example of how to order a standard AstroCel TM Hood filter using the Component Code Definition System.

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

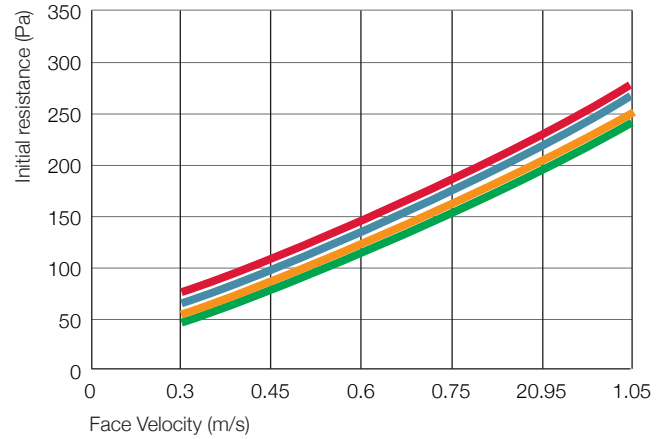
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## Resistance vs Airflow



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: 96 mm media pack  
U17, U16, U15, H14

## 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

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

## Standard Sizes and Ratings

Size in mm without gasket			Nominal airflow (0,45 m/s)	
H	W	D	m <sup>3</sup> /h	m <sup>3</sup> /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

Add 65 mm for collar.  
Overall height incl. 20 mm knife-edge. Other knifeedge length available upon request.  
Standard inlet collar is DN 250.  
Other sizes and executions available upon request.  
Recommended final resistance: 500 Pa.  
Temperature limit: 70 °C.

AstroCel<sup>®</sup> is a registered trademark of AAF International in the U.S. and other countries.



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