THE WORLD LEADER IN CLEAN AIR SOLUTIONS

AstroCel® II

HIGH QUALITY HEPA FILTER

Features and Benefits

- Dedicated cleanroom and cleanbench filters
- Filter classes H14, U15, U16 and U17 to EN1822:2009
- Lightweight and easy to install
- Filters for ultra clean environments

AstroCel® II Dry Seal

AstroCel II one-piece gasket dry seal filters are designed for use in cleanrooms, cleanbenches, biohazard benches and other clean work stations. These filters ensure the necessary levels of contamination control in cleanroom environments.

The filters are compact, lightweight and easy to install in open plenum, terminal and in-line housing systems and cleanbenches.

AstroCel® II Fluid Seal

AstroCel II Fluid Seal filters feature an integral groove filled with gel at the air inlet side which ensures a perfect seal in housing systems. Like all AstroCel II type filters, they are compact, lightweight and easy to install - particularly in terminal hood and fan filter modules.

AstroCel® Knife Edge

The AstroCel II Knife-Edge filters provide a perfect seal in liquid channel ceiling grid systems. Due to their high efficiency classification, the filters are extremely effective in providing the necessary levels of contamination control in cleanrooms. The filters are available in a wide range of knife-edge sizes to meet various application requirements.

All Astrocel II filter executions offer many benefits:

- Factory tested to meet the most stringent legal and industry requirements.
- High efficiency safeguards processes, products and workers.
- Functional reliability: leak or scan tested.

AstroCel® II Filter - Dry Seal

Selection Table

Item	Component	Component Code Definition
A	Media**	**A= Waterproof glass fibre** E= Waterproof glass fibre M = Waterproof glass fibre
B	Cell Sides	**99 = Anodized aluminium extrusion, standard profile**
C	Separators	**C = Thermoplastic**
D	Bond	**9 = Cold cured resin**
E	Gasket	P = No gasket **S = 5 mm, half round profile, one-piece foamed** T = 6 mm, flat profile
F	Gasket Location	0 = No gasket **2 = One face** 3 = Both faces
G	Acceptance Level	**R = H14 Min. 99.995%, @ MPPS acc. to EN1822:2009** M = U15 Min. 99.9995%, @ MPPS acc. to EN1822:2009 N = H16 Min. 99.99995%, @ MPPS acc. to EN1822:2009 T = H17 Min. 99.999995%, @ MPPS acc. to EN1822:2009
H	Faceguard Location	0 = No faceguard, maximum size 610 x 1220 mm and/or 762 x 915 mm 1 = Non-gasket side only, media pack non-gasket side 2 = Gasket side only, media pack gasket side **3 = Both sides, media pack gasket side** 4 = Both sides, media pack non-gasket side
I	Options	Consult local sales office

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

How to Order

Below is a typical example of how to order a standard AstroCel II Dry Seal filter using the Component Code Definition System.

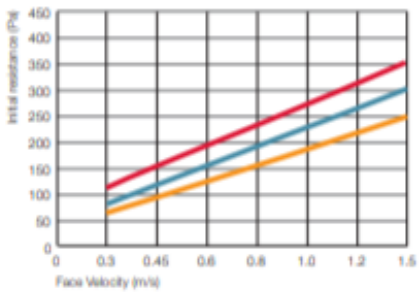
Item	A	B	C	D	E	F	G	H	I
Component	A	99	C	9	S	2	R	3	-

Standard Sizes and Ratings

Size in mm without gasket			Nominal airflow (0,45 m/s)	
H	W	D	m³/h	m³/s
203	203	69	70	0,02
305	305	69	150	0,04
305	610	69	300	0,08
305	762	69	380	0,11
305	915	69	450	0,13
457	457	69	340	0,09
457	610	69	450	0,13
610	610	69	600	0,16
610	762	69	750	0,21
610	915	69	900	0,25
610	1220	69	1200	0,33
610	1524	69	1500	0,42
610	1830	69	1800	0,50
762	762	69	940	0,26
762	915	69	1130	0,31
762	1220	69	1500	0,42
762	1524	69	1880	0,52
762	1830	69	2260	0,63
915	915	69	1360	0,38
915	1220	69	1800	0,50
915	1524	69	2260	0,63
915	1830	69	2710	0,75
1220	1220	69	2400	0,67
305	305	93	150	0,04
305	610	93	300	0,08
610	610	93	600	0,16
610	762	93	750	0,21
610	915	93	900	0,25
610	1220	93	1200	0,33
762	762	93	940	0,26
305	305	117	150	0,04
457	457	117	340	0,09
610	610	117	600	0,16
610	762	117	750	0,21
610	915	117	900	0,25
610	1220	117	1200	0,33

Recommended final resistance 500 Pa.
Temperature limit: 70 °C

Resistance vs Face Velocity



U16, U15, H14 - 72 mm media pack

Initial resistance (Pa) at nominal airflow

Depth (mm)	Class			
	H14	U15	U16	U17
69	125	145	165	-
93	90	105	125	-
117	75	80	90	110

Efficiency

Efficiency	Efficiency EN1822:2009	
@ 0,3 µm	@ MPPS	
	H14	99,995%
@ 0,3 µm	@ MPPS	
	U15	99,9995%
	U16	99,99995%
	U17	99,999995%