

# AstroCel® II Dry Seal

High Quality HEPA and ULPA Filters for Dry Seal Applications

- Dedicated cleanroom and cleanbench filters
- Filter classes H14, U15, U16 and U17 to EN1822
- Lightweight and easy to install
- One-piece gasket provides perfect seal
- Filters for ultra clean environments

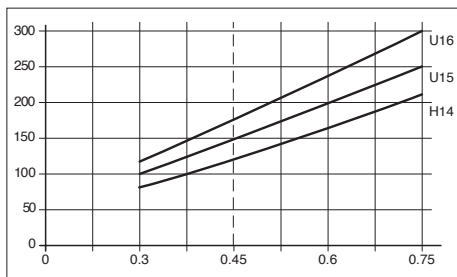


AstroCel II one-piece gasket dry seal filters are designed for use in cleanrooms, cleanbenches, biohazard benches and other clean work stations. Classified H14, U15, U16 and U17 accordance with EN1822, these filters ensure the necessary levels of contamination control in cleanroom environments.

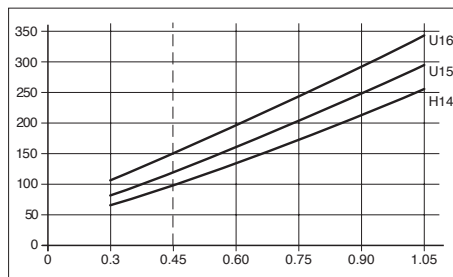
The filters are compact, lightweight and easy to install in open plenum, terminal and in-line housing systems and cleanbenches and offer many additional benefits:

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

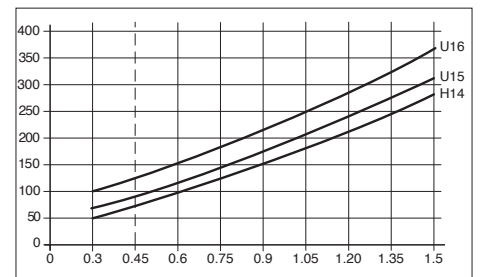
Resistance vs Face Velocity



Filter depth 69 mm: 48 mm media pack



Filter depth 93 mm: 72 mm media pack



Filter depth 117 mm: 96 mm media pack

# AstroCel® II Dry Seal

## Selection Table

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>99 = Anodized aluminium extrusion, standard profile</b>
C	Separators	<b>C = Thermoplastic</b>
D	Bond	<b>9 = Cold cured resin</b>
E	Gasket	P = No gasket <b>S = 5 mm, half round profile, one piece foamed</b> T = 6 mm, flat profile
F	Gasket Location	0 = No gasket <b>2 = One face</b> 3 = Both faces; one piece foamed, half round profile
G	Acceptance Level	<b>R = H14 Min. 99.9995%, @ MPPS acc. to EN1822</b> M = U15 Min. 99.9995%, @ MPPS acc. to EN1822 N = U16 Min. 99.9995%, @ MPPS acc. to EN1822 T = U17 Min. 99.9995%, @ MPPS acc. to EN1822
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 <b>3 = Both sides, media pack gasket side</b> 4 = Both sides, media pack non-gasket side
I	Options	Consult local sales office

\* **Bold typeface:** standard execution. For Fluid Seal or Knife Edge execution consult specification sheets RA-4-732 and RA-4-742.

\*\* To be determined by AAF engineering.

## How to Order

Below 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 Definition	A	99	C	9	S	2	R	3	-

## Standard Sizes and Ratings

Size in mm without gasket			Airflow at 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

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

## Initial resistance table 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	
<b>@ 0.3 µm</b>	<b>@ MPPS</b>	
99.999%	H14	99.995%
<b>@ 0.12 µm</b>		
99.9995%	U15	99.9995%
99.99995%	U16	99.99995%
99.999995%	U17	99.999995%

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

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