

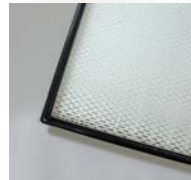
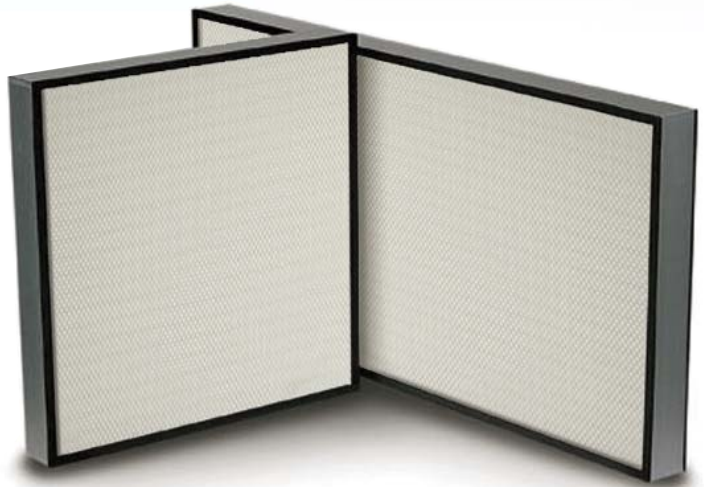


Better Air is Our Business®

## AmericanAirFilter® AstroCel® II

High Quality HEPA and ULPA Filters

- Mini-pleat design lowers operating costs
- Lightweight and compact
- Low off-gassing components
- Wide range of efficiencies
- Leak and/or scan tested



One-piece Autogasket



Neoprene gasket



The knife-edge frame is designed specifically for AstroGel ND wet seal grid system to assure airtight sealing

The gasket seal frame is designed for use in clean benches and AstroFan FFU. AstroCel® II is available with one-piece Autogasket or Neoprene Gasket.

The AAF AstroCel® II is a unique family of mini-pleat HEPA and ULPA filters specially designed to meet the demanding airflow and particulate control requirements of cleanroom applications. It is available with knifeedge or gasket seal frames for installation in any type of grid system or frame.

All AAF AstroCel® II filters are custombuilt to provide the optimum solution for a wide range of application requirements. Available with a variety of media pack configurations and meeting the classifications ranging from H13 to U17 in accordance with EN 1822.

The AstroCel® II filters are designed for use in cleanrooms, clean benches, semiconductor, pharmaceutical, biotech, food processing, and other industries in which airborne contaminants must be carefully controlled.

### Mini-Pleat Design Lowers Operating Costs

The mini-pleat design of the AstroCel® II combines maximum efficiency with low pressure drop, thus reducing operating costs.

Special thermoplastic heads are used to maintain equal spacing between pleats for optimal airflow, resulting in high dust holding capacity and full use of the entire depth of the filter.

### Lightweight and Compact

The AstroCel® II is made of moisture resistant and fire-retardant glass fiber media. The media pack is permanently bonded to the lightweight anodized extruded aluminum frame, with a DIN classified, white urethane adhesive.

A white epoxy coated faceguard on both air leaving and air entering sides protect media from damage, The lightweight, compact design makes installation easy in open plenum, fan filter modules and clean benches.

### Low Off-Gassing Components

All components used are low off-gassing to meet the stringent requirements of specific industries.

### Wide Range Efficiencies

Available in a wide range of efficiencies:

Efficiency	Media Color EN 1822 @ MPPS
99.99% @ 0.3µm	99.95% (H13)
99.999% @ 0.3µm	99.995% (H14)
99.9995% @ 0.12µm	99.9995% (U15)
99.99995% @ 0.12µm	99.99995% (U16)
99.999995% @ 0.12µm	99.999995% (U17)

### Leak and/or Scan Test

AAF has established an extensive testing methodology for all AstroCel® II HEPA and ULPA filters to meet the criteria specified for its application prior to shipment.

All HEPA filters are leak tested and ULPA filters are scanned with a laser spectrometer with PSL particles to determine the overall efficiency in accordance with IES-RP-CCO34-1.

# AmericanAirFilter® AstroCel® II

## Specifications

Maximum Operating Temperature	: 70°C (158°F)
Average Face Velocity	: 0.45 m/s
Frame	: Anodized extruded aluminum
Separators	: Thermoplastic
Sealant	: Fire retardant polyurethane sealant
Gasket	: One piece foaming polyurethane
Faceguard Location	: Epoxy powder coated steel
Media	: Moisture resistant and fire-retardant fiber glass media

## Performance Data

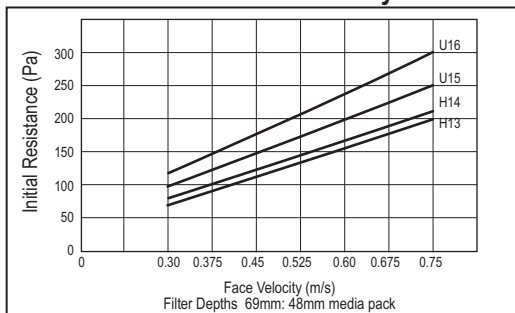
Depth (mm)	Rated Initial Resistance							
	H13		H14		U15		U16	
	(In. WG)	(Pa)	(In. WG)	(Pa)	(In. WG)	(Pa)	(In. WG)	(Pa)
69	0.44	110	0.50	125	0.58	145	0.70	175
93	0.32	80	0.44	110	0.46	115	0.48	120
117	0.28	70	0.32	80	0.36	90	0.42	105
88	0.44	110	0.50	125	0.58	145	0.70	175
110	0.32	80	0.44	110	0.46	115	0.48	120
134	0.28	70	0.32	80	0.36	90	0.42	105

## Standard Sizes

Height x Width		Available Depths (Nominal Sizes)							Airflow @ 0.45 m/s m³/h
		Gasket Seal (Day) Frame			Knife-Edge Frame				
(Inches)	(mm)	2¾"(69mm)	3⅝"(93mm)	4⅝"(117mm)	3½"(88mm)	4⅜"(110mm)	5¼"(134mm)		
12 x 12	305 x 305	●	●	●				150	
12 x 24	305 x 610	●	●	●				300	
20⅞ x 20⅞	530 x 530	●	●	●				450	
20⅞ x 24	530 x 610	●	●	●				520	
20⅞ x 44⅞	530 x 1140	●	●	●				980	
24 x 12	610 x 305	●	●	●	●	●	●	300	
24 x 20⅞	610 x 530	●	●	●	●	●	●	520	
24 x 24	610 x 610	●	●	●	●	●	●	600	
24 x 30	610 x 762	●	●	●	●	●	●	750	
24 x 36	610 x 915	●	●	●	●	●	●	900	
24 x 48	610 x 1120	●	●	●	●	●	●	1200	
24 x 60	610 x 1524	●	●	●	●	●	●	1500	
30 x 30	762 x 762	●	●	●	●	●	●	940	
30 x 36	762 x 915	●	●	●	●	●	●	1130	
30 x 48	762 x 1220	●	●	●	●	●	●	1500	
30 x 60	762 x 1524	●	●	●	●	●	●	1880	
36 x 30	915 x 762	●	●	●	●	●	●	1130	
36 x 36	915 x 915	●	●	●	●	●	●	1350	
36 x 48	915 x 1220	●	●	●	●	●	●	1800	

Note: 1). Standard knife-edge skirt: 20 mm. Other skirt lengths are also available.  
2). Special sizes available request.

## Initial Resistance vs Face Velocity



Better Air is Our Business®

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ISO-9001 Certified Firm

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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