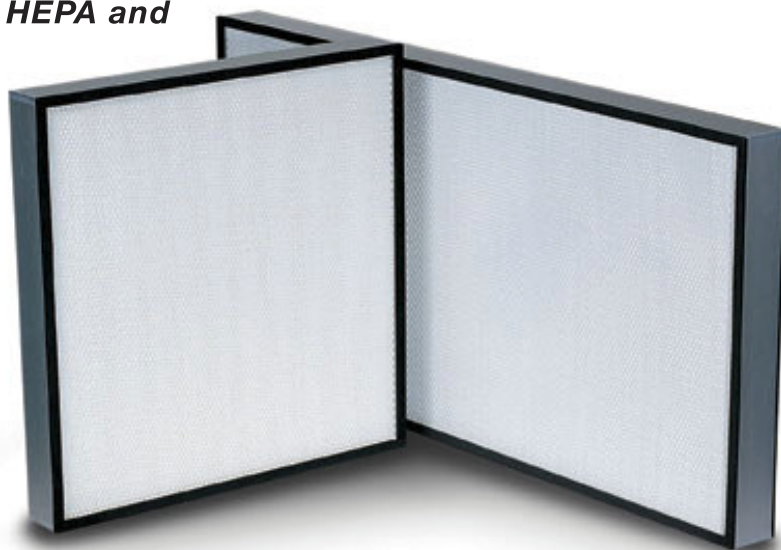


AstroCel® II

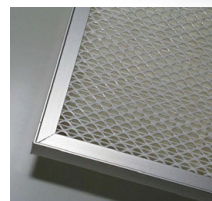
High Quality HEPA and ULPA Filters



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



The gasket seal frame is designed for use in clean benches and AstroFan FFU.



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

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 knife-edge or gasket seal frames for installation in any type of grid system or frame.

All AAF AstroCel® II filters are custom-built 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 beads 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 aluminium 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	Efficiency 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.



B E T T E R A I R I S O U R B U S I N E S S ®



AstroCel® II

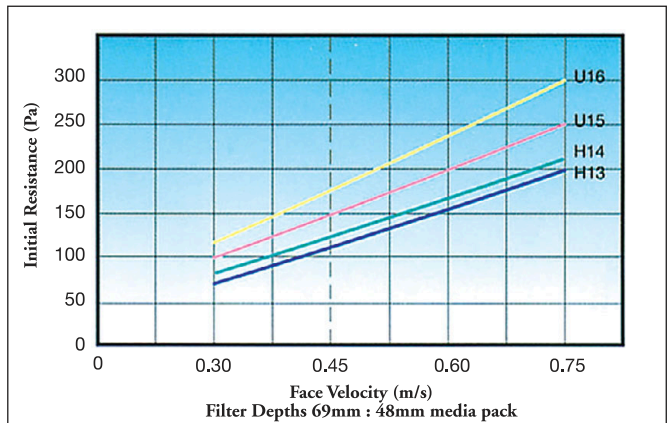
Specifications

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	:	Closed cell neoprene
Faceguards	:	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

Initial Resistance vs Face Velocity



Standard Sizes

Nominal Sizes								Airflow @ 0.45 m/s
(Height x Width)		Available Depths						
		Gasket Seal (Dry) Frame			Knife-Edge Frame			
(Inches)	(mm)	2¾" (69mm)	3⅝" (93mm)	4⅝" (117mm)	3½" (88mm)	4⅜" (110mm)	5¼" (134mm)	m³/h
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 : 20mm. Other skirt lengths are also available.
2) Special sizes available upon request.



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

CI-ASTII-04-SIN/0505

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