AstroPak®

THE HIGH VELOCITY HEPA PANEL FILTER

Features and Benefits

- Can be scanned for leakage when installed according to ISO14644-3
- Optimised media pack utilising thermoplastic separator technology
- Available in 292mm depth box configurations giving:
  - Improved performance*
  - Increased robustness*
  - Improved total cost of ownership
- Available in efficiencies from E12 to H14 according to EN1822
- Available in a wide range of dimensions
- Available in aluminium and MDF frames

*Measured against traditional "deep-pleat" filters.

Applications

- Final HEPA filtration stage for air handling units
- Cleanroom terminal housings requiring high air velocities
- Containment systems requiring filter validation

Configurations

Filter media	Glassfibre
Pocket design	Mini-pleat
Separator	Thermoplastic
Standard pack depths**	48, 72, 96, 120, 180 mm
Frame material**	Anodized extruded aluminium, MDF
Sealant	Polyurethane (PU)
Gasket**	Polyurethane foam, neoprene
Faceguard (optional)	Epoxy coated steel, stainless steel
Recommended max. resistance	600 Pa
Max. operating temperature	70 °C
Labelling	Duplicate air filter label, double tear-off air filter label
Enclosed documentation	Individual test report to EN1822
Moisture resistance	100% relative humidity

**Other options available.

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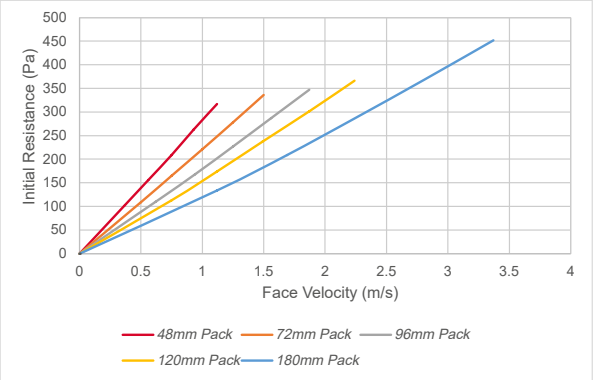
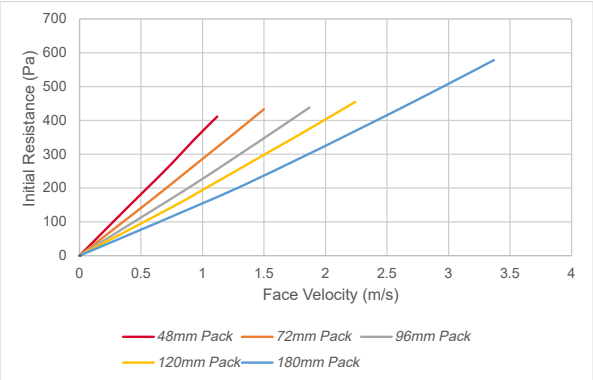
Filter Dimensions			Media Pack Height (mm)	Rated Velocity (m/s)	Initial Resistance (Pa)	
H (mm)	W (mm)	D (mm)			H13	H14
200 to 1200	150 to 1830	69	48	0.75	250	320
		78	48	0.75	250	320
		149	72	1	250	320
		149	120	1.5	250	320
		292	96	1.25	250	320
		292	180	2.25	290	370

Volumetric Flow (m^3/h)					
Common Sizes	0.75 m/s	1 m/s	1.25 m/s	1.5 m/s	2.25 m/s
305x305	250	330	420	500	750
305x610	500	670	840	1000	1500
287x592	460	610	760	920	1400
457x457	560	750	940	1100	1700
592x592	950	1300	1600	1900	2800
610x610	1000	1300	1700	2000	3000

Resistance vs Face Velocity (H13)



Resistance vs Face Velocity (H14)



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Related Products

AstroCel I and MEGAcel I

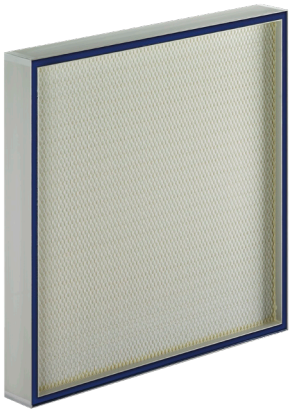
Features and Benefits

The AstroCel I provides HEPA filtration in medium and high velocity applications, deep-pleat technology with corrugated aluminium separators allows:

- Operation in elevated temperatures up to 90°C (over 200°C possible in some executions)
- A uniform airflow for in-situ scan validation testing

With AAF's MEGAcel I, membrane media provides significantly reduced operating costs and improved reliability.

AstroCel II and MEGAcel II



Features and Benefits

The AstroCel II is the standard for clean room applications, designed for velocities of 0.45m/s. Thermoplastic separator technology provides:

- An optimised pleat pack offering low resistance and reliable service
- Unidirectional clean air in efficiencies up to U17

Upgrading to the MEGAcel II product family builds on this with AAF's membrane media technology, offering unrivalled low operating costs and durability.

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