MEGAcel® II ME

MINI-PLEAT HEPA FILTER

Features and Benefits

- Available in H13 - U17 efficiency
- Lowest initial resistance available
- Negligible off-gassing properties (no boron)
- AAF International's high tensile strength ePTFE media is up to 8 times stronger than microglass
- Highly resistant to corrosive environments (acids, alkalis, and organic substances)
- Gasket seal, gel seal and knife-edge designs available
- Lightweight anodised aluminium frame
- Exceptional water resistance compared to ultrafine microglass
- Lowest pressure drop mini-pleat HEPA filter available, reducing energy consumption for significant savings
- MEGAcel II is manufactured, tested, and packaged in ISO 7 clean facilities to ensure the highest purity, quality, and consistency

Applications

Designed specifically for the unique requirements and challenges of the microelectronics industry. The MEGAcel II ME panel filter with membrane technology offers ultra low pressure drop up to ULPA filtration efficiency levels. Mainly used in ultra clean environments and applications. Suitable for DPC test methods.

Configurations

Filter media	ePTFE media
Pack design	Mini-pleat
Separator	Hot-melt
Pack depth	50 mm
Frame material	Anodized extruded aluminum
Sealant	Polyurethane (PU)
Gasket	Material: PU foamed endless, EPDM, Siliconde Fluid Seal, Poron (dovetail), Silicone
Faceguard	Material: Galvanized steel epoxy-coated RAL 9016, Stainless steel
Max. operating temperature	70 °C
Labeling	Duplicate air filter label, double tear-off air filter label, In-situ test instruction labels
Enclosed documentation	Individual test report to EN1822, installation and in-situ test instructions

AAF® INTERNATIONAL

Bringing clean air to life.™

MEGAcel® II ME

Standard Sizes			Nominal Airflow	
H	W	D	m^3/s	m^3/s
305	305	69	150	0,04
305	610	69	300	0,08
570	570	69	525	0,15
570	1170	69	1080	0,30
610	610	69	600	0,17
610	915	69	900	0,25
610	1220	69	1200	0,33

Sizes exclude gasket. For special sizes, please contact your AAF sales office. Non-standard configurations may result in differing performance characteristics.

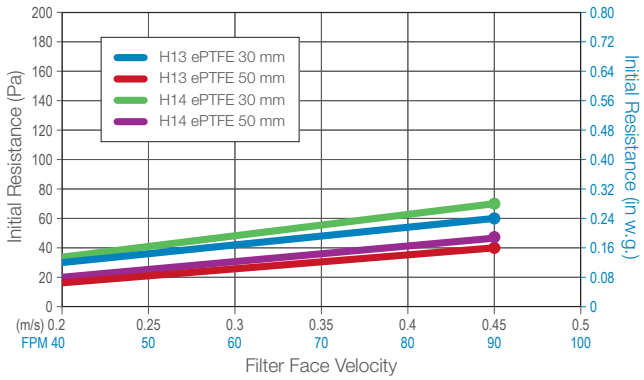
For HxW dimensions as from 610 x 1220 mm, two faceguards or one faceguard with divider are recommendable for frame stability.

Performance MEGAcel® II ME

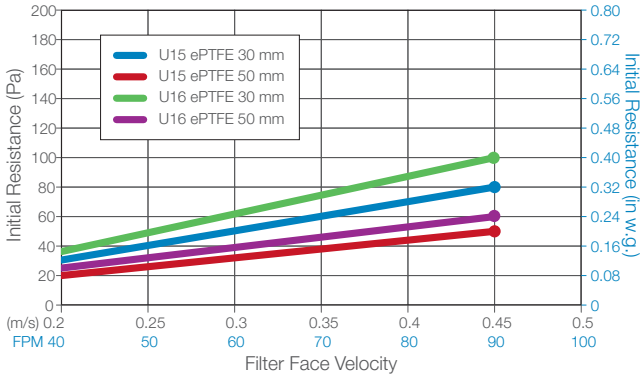
Filter Efficiency		
At 0,14 µm PSL	For MPPS to EN1822	
99,98%	H13	≥ 99,95%
99,998%	H14	≥ 99,995%
99,9998%	U15	≥ 99,9995%
99,99998%	U16	≥ 99,99995%

Initial resistance at 0,45 m/s				
Pack depth	H13	H14	U15	U16
50 mm	35 Pa	45 Pa	50 Pa	60 Pa

MEGAcel II ME H13/H14
Initial Resistance vs. Filter Face Velocity



MEGAcel II ME U15/U16
Initial Resistance vs. Filter Face Velocity



Recommended final resistance: 500 Pa. Maximum operating temperature: 70 °C. Fire classification: UL 900 available on request. See complete marking Performance graph: MEGAcel II ME 610 x 1220 x 69 mm (HxWxD)

Bringing clean air to life.

AAF International
European Headquarters
Odenwaldstrasse 4, 64646 Heppenheim
Tel: +49 (0)6252 69977-0
www.aafeurope.com

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