

# MEGAcel<sup>®</sup> II

## HEPA FILTER WITH EFRM FILTRATION TECHNOLOGY



### Features and Benefits

- Available in H13 (99,95% @ MPPS), and H14 (99,995% @ MPPS)
- Offers lowest possible pressure drop in terminal, panel HEPA filter
- Superior durability, hydrophobic nature, and chemically inert properties minimize risk
- Tolerant of high hydrocarbon exposure and high humidity
- Compatible with all validation test methods – photometer and discrete particle counter (DPC)
- MEGAcel II is designed to increase cleanroom uptime and reduce the risks associated with pharmaceutical manufacturing
- Pharmaceutical grade eFRM Filtration Technology media is proven to be more durable than microglass, delivering superior performance
- Industry's first and only eFRM media to be Polyalphaolefin (PAO) compatible, with a higher PAO holding capacity compared to microglass media
- Chemical-resistant capabilities reduce media degradation in highly corrosive environments
- Exceptional water resistance compared to ultrafine microglass
- No boron outgassing
- 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 pharmaceutical industry, the MEGAcel II mini-pleat HEPA filter has the proven durability, polyalphaolefin (PAO) compatibility, high particulate filtration efficiency, and the lowest pressure drop to meet the demands of pharmaceutical manufacturing.

### Configurations

<b>Filter media</b>	eFRM media
<b>Pack design</b>	Mini-pleat
<b>Separator</b>	Hot-melt
<b>Pack depth</b>	50 mm
<b>Frame material</b>	Anodized extruded aluminum
<b>Sealant</b>	Polyurethane (PU)
<b>Gasket</b>	Material: PU foamed endless, EPDM, PU Gel Fluid Seal alternative Silicone Fluid Seal
<b>Faceguard</b>	Material: Galvanized steel epoxy-coated RAL 9016, Stainless steel
<b>Max. operating temperature</b>	70 °C
<b>Moisture resistance</b>	Up to 100% relative humidity
<b>Labeling</b>	Duplicate air filter label, double tear-off air filter label
<b>Enclosed documentation</b>	Individual test report to EN1822

# MEGAcel® II

Standard Sizes			Nominal Airflow	
H	W	D	m³/h	m³/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

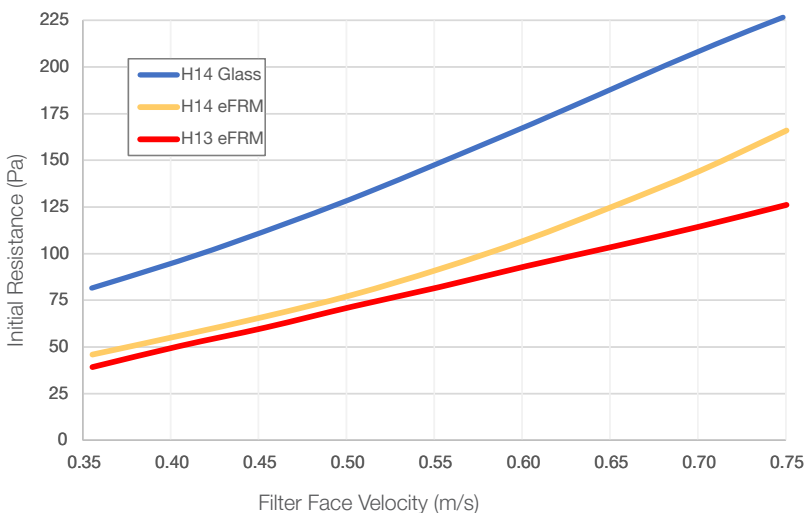
**SIDENOTES:**

- 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

Filter Efficiency		
At MPPS acc. to EN1822 DEHS		At 0,14 µm PSL
H13	≥ 99,95%	≥ 99,98%
H14	≥ 99,995%	≥ 99,998%

Initial resistance at 0,45 m/s ± 15 Pa		
Pack depth	H13	H14
50 mm	60 Pa	65 Pa



dp (Pa)	Filter Face Velocity (m/s)				
	0,35	0,45	0,55	0,65	0,75
H14 Glass	80	110	146	186	225
H14 eFRM	45	65	90	123	164
H13 eFRM	38	60	80	102	128

Note: Values based on measurements on overall dimensions, not published target or maximum values. Actual results may vary slightly.



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