

MEGAcel[®] 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

Filter media	eFRM 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, PU Gel Fluid Seal alternative Silicone Fluid Seal
Faceguard	Material: Galvanized steel epoxy-coated RAL 9016, Stainless steel
Max. operating temperature	70 °C
Moisture resistance	Up to 100% relative humidity
Labeling	Duplicate air filter label, double tear-off air filter label
Enclosed documentation	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

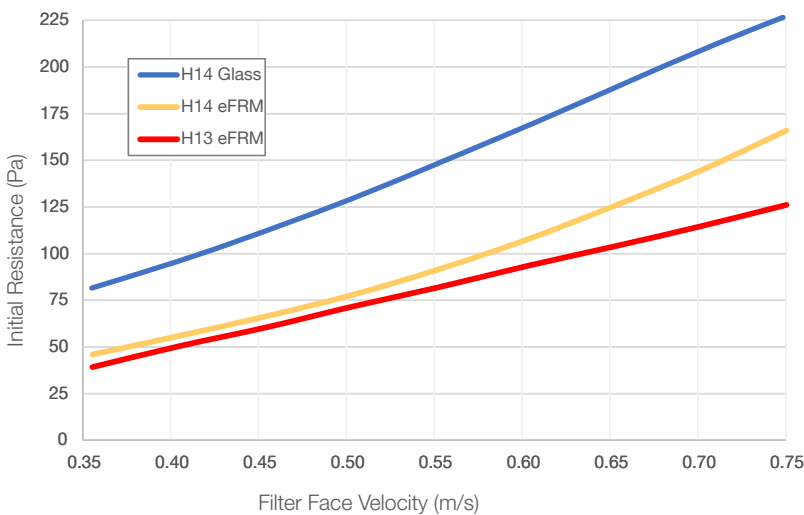
SIDENOTES:

- 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. UL900 classification available on request Actual results may vary slightly.



Bringing clean air to life:

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

American Air Filter Company, Inc. has a policy of continuous product improvement. This document is provided for informal review and establishes no commitment or contract. We reserve the right to change any designs, specifications and products without notice, and we make no warranties regarding the subject matter of this document. Any use, copying or distribution of this document or any part of this document without our permission is prohibited.

©2024 AAF International and its affiliated companies.
 EHU_516_EN_082024