MEGAcel® III

eFRM HEPA FILTER

Features and Benefits

- Available in efficiency classes ≥ 99,95% and ≥ 99,995% for MPPS (H13 and H14 to EN1822)
- High airflow solution with AAF's eFRM media
- Optimizes particulate contamination control for enhanced air quality in critical environments
- Increased sustainable performance with up to 50% energy savings
- High operational stability through low filter damage risk and rigid frame construction
- The MEGAcel III filter provides reliably high air quality to optimize contamination control and meet the stringent conditions required in cleanroom environments

Applications

Typical applications are HVAC installations for sensitive processes, such as pharmaceutical or food and beverage, and areas in which hazardous materials like asbestos are handled.

Configurations

Filter media	eFRM media
Pack design	Mini-pleat V-shaped
Separator	Thermoplastic polymer
Pack depth	25 mm
Frame material	Galvanized steel or ABS plastic
Sealant	Polyurethane (PU)
Gasket	Material: EPDM, FIPFG Polyurethane, Position: Air entering side
Faceguard	None
Max. operating temperature	70 °C
Labeling	Double tear-off
Enclosed documentation	Individual test report to EN1822 / / ISO29463

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MEGAcel® III

Standard Sizes			Nominal Airflow		Air velocity
H	W	D	m^3/h	m^3/s	m/s
305	610	292	2000	0,55	3
610	610	292	4000	1,11	3
610	305	292	1500	0,42	2,2

Sizes exclude gasket. Non-standard configurations may result in differing performance characteristics.

Performance MEGAcel® III

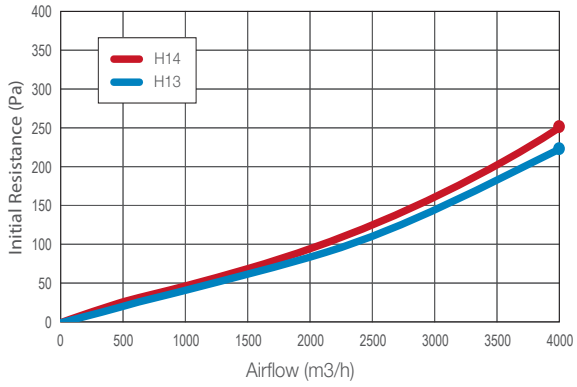
Filter Efficiency	
For MPPS to EN1822	
H13	≥ 99,95%
H14	≥ 99,995%

Efficiency at MPPS as per ISO 29463-5. Presented efficiency for size 610 x 610 mm values are based on nominal airflow of 4000 m^3/h. Higher airflow rates can result in reduced filtration efficiency performances

Initial resistance at 3 m/s	
H13	H14
220 Pa	250 Pa

Presented pressure drop figures are based on galvanised steel frame executions. For ABS plastic frame executions, pressure drop will be appr. 20 Pa higher.

Resistance vs Airflow rate (m^3/h)



Media pack H13 and H14

- *Recommended final resistance: 600 Pa*
- *Maximum operating temperature: 70 °C*
- *Performance graph: MEGAcel III 610 x 610 x 292mm (HxWxD)*

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