AEROCEL-MH

Mini-Pleat Filter · Galvanized Steel Frame Series · EN779 / MERV / ISO 16890

FILTLAB



DESIGN FEATURES & ENGINEERING NOTES

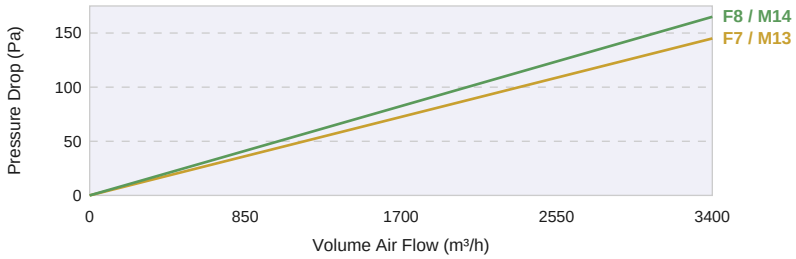
Mini-Pleat Geometry Maximises filter media area per unit footprint, delivering high air volume with minimal depth and reduced airside resistance.	**Galvanized Steel Frame** Robust galvanized steel provides mechanical rigidity and corrosion resistance for industrial and commercial environments.
Water-Resistant Media Glass fiber media maintains structural integrity and filtration performance in high-humidity airstreams up to 95% RH.	**Positive Sealing System** Hot-melt adhesive sealant ensures zero-bypass performance, fully bonding media pack to frame at rated compression torque.
Extended HEPA Service Life Effective pre-filtration significantly increases downstream HEPA filter service intervals, reducing total cost of ownership.	**Optional Header Configuration** Available in Single, Double, or No-Header variants for flexible integration into existing AHU and duct systems.

PERFORMANCE MATRIX — EN779 TESTED · MERV / ISO 16890 EQUIVALENT

Nominal Size W×H×D (in)	Actual Dims (mm)	Air Flow (m³/h)	ASHRAE 52.2	Avg Efficiency @0.4 µm (%)	EN779	ISO 16890	ΔP Initial (Pa)	ΔP Final (Pa)
24×24×4	592×592×95	3,400	MERV 14	90–95	F8	ePM1 ≥65%	165	450
12×24×4	287×592×95	1,700	MERV 14	90–95	F8	ePM1 ≥65%	165	450
24×24×4	592×592×95	3,400	MERV 13	80–85	F7	ePM2.5 ≥65%	145	450
12×24×4	287×592×95	1,700	MERV 13	80–85	F7	ePM2.5 ≥65%	145	450

Measurement Method: EN779:2012 | MERV & ISO 16890 = equivalent (Eurovent REC 4/23) | Initial Resistance ±10% | Other sizes available upon request

PRESSURE DROP vs. AIRFLOW (592 × 592 mm)



BILL OF MATERIALS & OPERATING CONDITIONS

Frame	Galvanized Steel	**Max. Temperature**	70 °C
Filter Media	Glass Fiber	**Humidity Limit**	95% RH
Separator	Hot Melt Adhesive	**Test Standard**	EN779 (MERV / ISO equiv.)
Sealant	Adhesive	**Test Aerosol**	0.4 µm
Gasket	Neoprene	**Applications**	AHU / Cleanroom / HVAC
Fire Rating	UL Class 900	**Pleat Type**	Mini-Pleat

APPLICATION SELECTION GUIDE

EN779 / MERV	ISO 16890	Typical Application	Contaminants Removed	Pre-filter
F8 / MERV 14	ePM1 ≥65%	Pharmaceutical / Hospital OR Cleanroom ISO 7–8	Fine dust, bacteria, sub-micron particles	M5/M6 mandatory
F7 / MERV 13	ePM2.5 ≥65%	Commercial HVAC Data centres	Fine dust, pollen, mould spores	M5 recommended