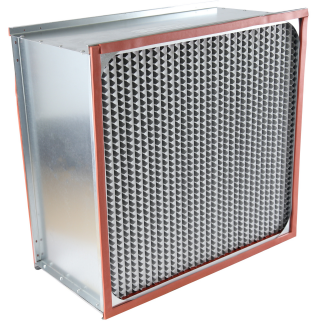
AEROCEL - HT

High Temperature Filter · Galvanized Steel Frame Series · EN779 / MERV / ISO 16890

FILTLAB® FILTRATION SOLUTIONS



DESIGN FEATURES & ENGINEERING NOTES

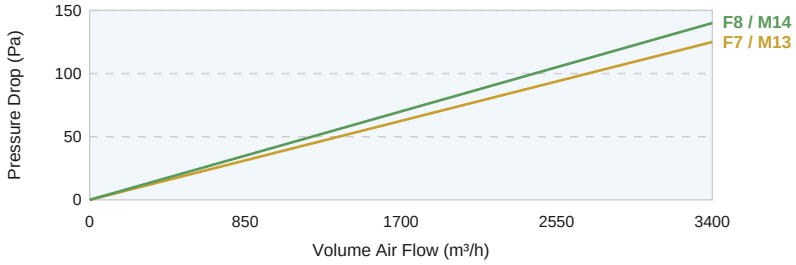
Aluminum Separator Adds rigidity to the filter construction and increases air flow stabilization across the full operating range.	**High-Temperature Resistance** Rated for continuous operation up to 250°C or 350°C (selectable option), suitable for demanding thermal processes.
Glass Fiber Media High-efficiency glass fiber filter media delivering up to 90–95% efficiency at 0.4 µm particle size.	**Galvanized Steel Frame** Robust galvanized steel frame with header options (single / double / none) for flexible housing integration.
Positive Sealing System Polyurethane sealant ensures verified zero-bypass performance at rated housing compression torque.	**Wide Application Range** Designed for AHU, industrial process air, pharmaceutical cleanrooms and marine HVAC where elevated temperatures occur.

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)
24×24×12	592×592×292	3,400	MERV 14	90–95	F8	ePM1 ≥65%	140	450
12×24×12	287×592×292	1,700	MERV 14	90–95	F8	ePM1 ≥65%	140	450
24×24×6	592×592×149	3,400	MERV 14	90–95	F8	ePM1 ≥65%	140	450
12×24×6	287×592×149	1,700	MERV 14	90–95	F8	ePM1 ≥65%	140	450
24×24×12	592×592×292	3,400	MERV 13	80–85	F7	ePM2.5 ≥65%	125	450
12×24×12	287×592×292	1,700	MERV 13	80–85	F7	ePM2.5 ≥65%	125	450
24×24×6	592×592×149	3,400	MERV 13	80–85	F7	ePM2.5 ≥65%	125	450
12×24×6	287×592×149	1,700	MERV 13	80–85	F7	ePM2.5 ≥65%	125	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**	250–350 °C
Filter Media	Glass Fiber	**Humidity Limit**	90% RH
Separator	Aluminum	**Fully Incinerateable**	No
Sealant	Polyurethane	**Test Standard**	EN779 (MERV / ISO equiv.)
Header	Single, Double or None	**Test Aerosol**	0.4 µm
Gasket	Glass Fiber	**Applications**	AHU / Cleanroom / HVAC
Metal Parts	Yes (Steel)		

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