ULTRAFLO-MP

HEPA Filter · Mini Pleat Aluminum Frame Series · EN1822 / ISO 29463

FILTLAB



DESIGN FEATURES & ENGINEERING NOTES

Ultra-clean Filter Media
Micro glass fiber media delivers certified 99.99% efficiency at 0.3 µm MPPS, meeting EN1822 H13 requirements for cleanroom, food & beverage and health care filtration.

Mini Pleat Aluminum Profile
Precision mini-pleated construction in aluminum profile frame maximises filtration area per unit footprint, ensuring low initial resistance and extended service life.

H13 Efficiency Grade
H13 efficiency grade, verified by EN1822 type test — suitable for pharmaceutical, food & beverage, health care and critical industrial applications.

Positive Sealing System
Polyurethane sealant bonded to EPDM/Neoprene gasket delivers zero-bypass performance at rated housing compression torque, preventing unfiltered air leakage.

Aluminum Faceguard Protection
Aluminum EG power-baked faceguard provides structural rigidity and corrosion resistance, making the filter suitable for food & beverage and health care environments.

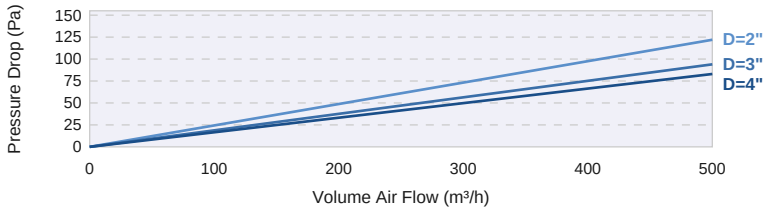
Wide Environmental Range
Rated to 70°C and 95 % RH enabling reliable deployment in AHU, cleanroom, food & beverage and health care HVAC systems year-round.

PERFORMANCE MATRIX — EN1822 / ISO 29463

Nominal Size W×H×D (in)	Actual Dims (mm)	Air Flow (m³/h)	ASHRAE 52.2	Efficiency MPPS (%)	EN1822	ISO 29463	ΔP Initial (Pa)	ΔP Final (Pa)
24×24×2	610×610×50	450	HEPA	≥99.95	H13	ISO 29463 H13	110	500
36×24×2	915×610×50	700	HEPA	≥99.95	H13	ISO 29463 H13	110	500
48×24×2	1220×610×50	950	HEPA	≥99.95	H13	ISO 29463 H13	110	500
24×24×3	610×610×69	450	HEPA	≥99.95	H13	ISO 29463 H13	85	500
36×24×3	915×610×69	700	HEPA	≥99.95	H13	ISO 29463 H13	85	500
48×24×3	1220×610×69	950	HEPA	≥99.95	H13	ISO 29463 H13	85	500
24×24×4	610×610×75	450	HEPA	≥99.95	H13	ISO 29463 H13	75	500
36×24×4	915×610×75	700	HEPA	≥99.95	H13	ISO 29463 H13	75	500
48×24×4	1220×610×75	950	HEPA	≥99.95	H13	ISO 29463 H13	75	500

Measurement Method: EN1822:2019 & ISO 29463:2017 | Initial Resistance ±10% | Other sizes available upon request

PRESSURE DROP vs. AIRFLOW (610 × 610 mm)



BILL OF MATERIALS & OPERATING CONDITIONS

Frame	Aluminum	**Max. Temperature**	70 °C
Filter Media	Micro Glass Fiber	**Humidity Limit**	95% RH
Separator	Hot Melt	**Efficiency H13**	99.95% MPPS
Faceguard	Aluminum, EG Power Baked	**Test Aerosol**	0.3 µm MPPS
Sealant	Polyurethane	**Test Standard**	EN1822 / ISO 29463
Gasket	EPDM, Neoprene	**Applications**	AHU / Food & Beverage / Healthcare

APPLICATION SELECTION GUIDE

EN1822	ISO 29463	Typical Application	Contaminants Removed	Pre-filter
H13	ISO 29463 H13	Pharmaceutical / Hospital Cleanroom ISO 5–8	Sub-micron particles, bacteria, viruses	F7/F8/F9 mandatory