ULTRAFLO-SF

HEPA Filter · Slim-Frame Deep Pleat Aluminum Separator · EN1822 / ISO 29463

FILTLAB



DESIGN FEATURES & ENGINEERING NOTES

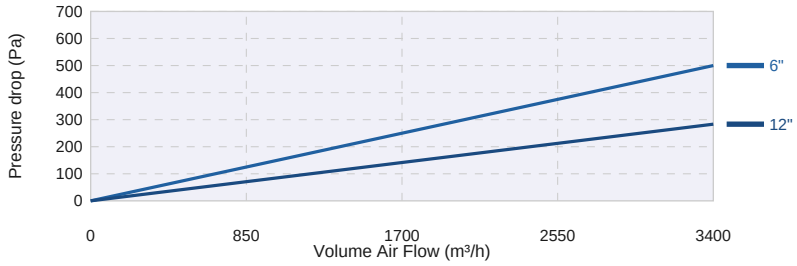
Ultra-clean Filter Media Micro glass fiber media delivers certified 99.99% efficiency at 0.3 µm, meeting H13 requirements for cleanroom, food & beverage and health care filtration.	**Deep Pleat & Aluminum Separator** Precision aluminum foil separators maintain consistent pleat spacing throughout, maximising effective filtration area and ensuring uniform airflow distribution.
H13 Efficiency Grade H13 efficiency grade — suitable for pharmaceutical, food & beverage, health care and critical industrial air handling applications.	**Positive Sealing System** Polyurethane sealant bonded to EPDM/Neoprene gasket delivers zero-bypass performance at rated housing compression torque, preventing unfiltered air leakage.
Slim-Frame Construction Compact slim frame profile is designed to fit standard 600 mm module housings, enabling easy retrofitting into existing AHU and cleanroom plenum systems.	**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)
12×24×6	305×610×150	750	HEPA	≥99.95	H13	ISO 29463 H13	250	500
24×24×6	610×610×150	1,700	HEPA	≥99.95	H13	ISO 29463 H13	250	500
30×24×6	762×610×150	2,000	HEPA	≥99.95	H13	ISO 29463 H13	250	500
36×24×6	915×610×150	2,500	HEPA	≥99.95	H13	ISO 29463 H13	250	500
48×24×6	1220×610×150	3,400	HEPA	≥99.95	H13	ISO 29463 H13	250	500
12×24×12	305×610×292	1,500	HEPA	≥99.95	H13	ISO 29463 H13	250	500
24×24×12	610×610×292	3,000	HEPA	≥99.95	H13	ISO 29463 H13	250	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	Plywood / MDF / Galvanized Steel Stainless Steel / Aluminum
Filter Media	Micro Glass Fiber
Separator	Aluminum, PET
Sealant	Polyurethane
Gasket	EPDM, Neoprene

Max. Temperature	70 °C
Humidity Limit	95% RH
Efficiency H13	99.95% MPPS
Test Standard	EN1822 / ISO 29463
Applications	AHU / Cleanroom / Food & Bev / 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