M-FLO

Pocket Filter · Galvanized Steel Frame Series · EN779 / MERV / ISO 16890

FILTLAB



DESIGN FEATURES & ENGINEERING NOTES

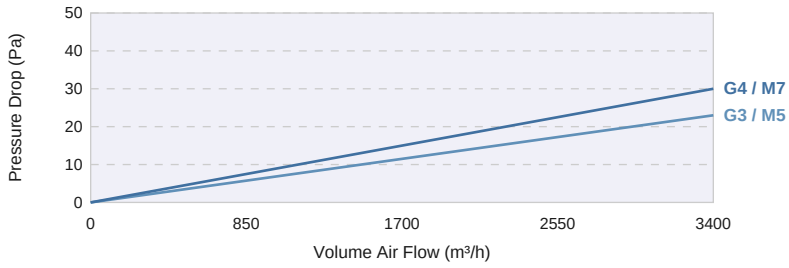
Multi-Pocket Design Multiple polyester fiber pockets maximise filtration surface per footprint, delivering high dust holding capacity and extended service intervals.	**Galvanized Steel Frame** Heavy-gauge galvanized steel provides rigidity and corrosion resistance, ensuring dimensional stability in humid and demanding HVAC environments.
Polyester Fiber Fleece Media High-loft polyester fleece captures coarse and fine dust with low initial pressure drop, maintaining consistent airflow throughout service life.	**High Dust Holding Capacity** Optimised pocket geometry delivers exceptional particulate retention, reducing filter replacement frequency and total lifecycle operating costs.
Fire Protection — DIN 53438 F1 Media and construction comply with DIN 53438 Class F1 fire retardancy for safe deployment in commercial and industrial HVAC systems.	**Wide Environmental Range** Rated to 80 °C and 100% RH enabling deployment across general ventilation, industrial air handling and process exhaust applications.

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 Arrestance (%)	EN779	ISO 16890	ΔP Initial (Pa)	ΔP Final (Pa)
24×24×21	592×592×534	3,400	MERV 7	≥90	G4	ISO Coarse	30	250
20×24×21	490×592×534	2,800	MERV 7	≥90	G4	ISO Coarse	30	250
12×24×21	287×592×534	1,700	MERV 7	≥90	G4	ISO Coarse	30	250
24×24×15	592×592×360	3,400	MERV 5	80–90	G3	ISO Coarse	23	250
20×24×15	490×592×360	2,800	MERV 5	80–90	G3	ISO Coarse	23	250
12×24×15	287×592×360	1,700	MERV 5	80–90	G3	ISO Coarse	23	250

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**	80 °C
Filter Media	Polyester Fiber Fleece	**Humidity Limit**	100% RH
Separator	None (open pocket design)	**Fire Classification**	DIN 53438 Class F1
Sealant	Hot Melt Adhesive	**Test Standard**	EN779 (MERV / ISO equiv.)
Gasket	Polyurethane Foam	**Rated Flow Basis**	At nominal face velocity
Metal Parts	Galvanized Steel Frame	**Applications**	HVAC / Industrial / Exhaust

APPLICATION SELECTION GUIDE

EN779 / MERV	ISO 16890	Typical Application	Contaminants Removed	Pre-filter
G4 / MERV 7	ISO Coarse	Commercial HVAC Industrial Ventilation	Coarse dust, pollen, textile fibres, insects	G3 recommended
G3 / MERV 5	ISO Coarse	General Ventilation Retail & Warehouses	Coarse dust, sand, large fibres	None required