



LFX™ Series – Liquid Filtration Excellence Engineered for Results

LFX-MB™ – Super Long-Life Meltblown Micron Filter Bags Technical Overview

Filtracore Asia's **LFX-MB™ Super Long-Life Meltblown Micron Filter Bags** are engineered for depth filtration applications requiring nominal particulate removal from **1–150 µm (standard; coarser on request)**, with **nominal efficiencies typically 70–90% at the rated micron size**. Constructed from multi-layer polypropylene meltblown media in a graduated density profile, each layer captures progressively finer particles, ensuring high dirt-holding capacity, stable differential pressure, and extended service intervals compared to conventional single-layer felt bags.



With low fibre migration due to bonded meltblown construction and available surface treatments to minimise media shedding, LFX-MB™ provides consistent retention across variable flow and contaminant loads. Typical operating conditions include

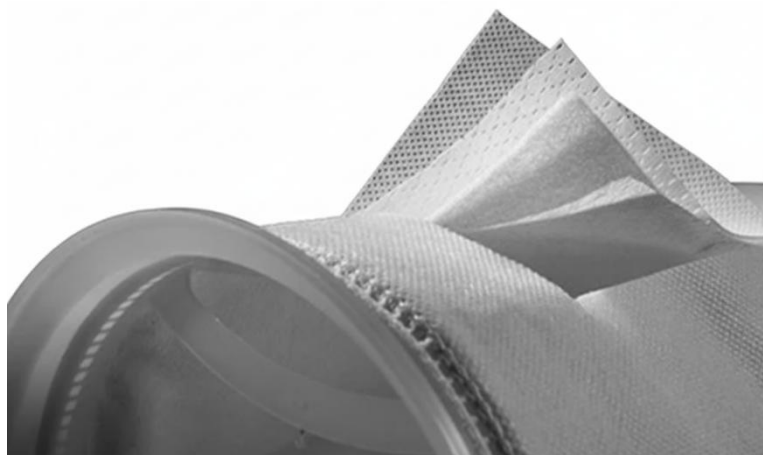
continuous service up to **90 °C** (short-term to **100 °C**), recommended change-out at **0.8–1.5 bar ΔP**, and a **maximum differential pressure of 2.5 bar at 20 °C**.

Designed for chemical processing, food & beverage, industrial water treatment, and general manufacturing, LFX-MB™ is available in sizes **#01, #02, #03, and #04**, with extended-length versions and custom dimensions offered upon request.

Engineered for Efficiency. Optimized for Flow. Trusted for Performance.

Technical Specifications

- **Material:** 100 % Polypropylene – Multi-Layer Meltblown Depth Media (graduated-density construction)
- **Micron Ratings:** 1–150 µm nominal (typical offerings: 1, 5, 10, 25, 50, 100, 150 µm; coarser on request)
- **Filtration Efficiency:** Nominal 70–90 % retention at rated micron size (depth-loading)
- **Operating Temperature:** Up to 90 °C (continuous); up to 100 °C (short-term)
- **Construction:** Multi-layer depth media, ultrasonically welded or sewn seams; optional surface treatments to reduce fibre migration
- **Collar / Ring Options:** Polypropylene flange (standard); 304/316 stainless-steel snap-ring or galvanised steel ring available
- **Surface Characteristics:** Bonded, non-fibre-shedding depth media; low fibre migration
- **Compliance:** Food-contact-compliant variants available (FDA 21 CFR; EU 1935/2004 & 10/2011), subject to certification
- **Recommended ΔP Change-out:** 0.8–1.5 bar
- **Maximum Differential Pressure:** 2.5 bar at 20 °C
- **Chemical Compatibility:** Excellent with aqueous solutions, acids, alkalis, and most process chemicals; not recommended for strong oxidisers or aromatic solvents
- **Add-Ons:** Extended length (e.g., 32 in), custom micron ratings, handles for easier change-out, lot/batch traceability upon request



Nominal Dimensions & Effective Filter Area

Size Code	Nominal Dimensions (mm/inches)		Effective Filter Area (m ²)
Size 01	∅ 180 x 430	∅ 7 x 17	0.24
Size 02	∅ 180 x 810	∅ 7 x 32	0.48
Size 03	∅ 100 x 230	∅ 4 x 9	0.08
Size 04	∅ 100 x 380	∅ 4 x 15	0.16

Recommended vs. Maximum Flow Rates

Size Code	Recommended Flow Rates ¹	Maximum Flow Rates ²
Size 01	2.5 to 5.0 m ³ /h	Up to 12 m ³ /h
Size 02	5.0 to 10 m ³ /h	Up to 20 m ³ /h
Size 03	0.6 to 1.2 m ³ /h	Up to 4 m ³ /h
Size 04	1.0 to 2.0 m ³ /h	Up to 8 m ³ /h

¹ These figures are based on filtration of clean, water-like fluids with a dynamic viscosity of ~1 mPa·s (~1 cP) at 20 °C, using standard micron ratings (5–25 µm).

² Maximum flow rates assume coarse media and low system backpressure. These figures may be reached under optimal conditions, including: low-viscosity liquids, coarse micron ratings (≥100 µm), elevated system pressures, or short filter lifespans in properly sealed housing systems.

For multi-layer meltblown filter bags, recommended flow rates should be observed closely, as excessive flow may accelerate pressure drop and reduce service life. Actual performance depends on fluid viscosity, contaminant load, pressure differential, and system configuration. Operating above recommended flow may shorten filter life or reduce filtration efficiency.

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