



LFX™ Series – Liquid Filtration Excellence Engineered for Results

LFX-CMB™ – Melt-Blown Polypropylene Depth Filter Cartridges Product Highlights

Filtracore Asia's **LFX-CMB™ Melt-Blown Polypropylene Depth Filter Cartridges** deliver **cost-effective, high-capacity depth filtration** for a wide range of industrial and process liquid applications. Constructed from **graded-density melt-blown polypropylene with a rigid polypropylene core**, these cartridges achieve **progressive depth filtration**, capturing coarse to fine particles throughout the matrix to extend service life and minimize change-out frequency.

The **bonded fibre structure** ensures consistent micron accuracy and prevents fibre migration, while the **all-polypropylene, binder-free design** guarantees broad chemical



compatibility and low extractables – making LFX-CMB™ suitable for general water, chemicals, inks, coatings, and process fluids. For procurement teams, this translates into predictable performance, secure sourcing, and straightforward stocking across diverse plants and industries.

LFX-CMB™ cartridges are available in **nominal micron ratings from 1**

µm to 100 µm (extended to 150 µm on request) and standard lengths of **10", 20", 30", and 40"**. Optional **large-diameter "Big Blue" 4.5" OD variants** further increase dirt-holding capacity and flow rates. A full range of **end-cap styles (DOE, 222/226 flat or fin, threaded ends)** allows seamless integration into housings from leading global OEMs, enabling **drop-in replacement** without system redesign.

Procurement professionals can rely on LFX-CMB™ as a **globally benchmarked, supply-chain dependable solution** – balancing performance and cost while ensuring compatibility across multiple OEM platforms.

Durable. Efficient. Built for Scale.

Applications - LFX-CMB™ – Melt-Blown Polypropylene Depth Filter Cartridges

LFX-CMB™ – Melt-Blown Polypropylene Depth Filter Cartridges are widely applied across industrial, utility, and process fluid systems where general-purpose particulate removal and reliable dirt-loading performance are required. Typical applications include:

- **Industrial Water Treatment** – removal of sand, rust, scale, and particulates from cooling and rinse water streams
- **Chemical Processing** – clarification of acids, alkalis, and solvents compatible with polypropylene media
- **Inks, Paints, and Coatings** – capture of agglomerates and particulate matter to stabilize viscosity and finish quality
- **Food & Beverage Utilities** – prefiltration of process water, CIP fluids, and syrup streams (food-contact compliant variants available)
- **RO/UF Pretreatment** – particulate protection of downstream membrane systems
- **General Plant Services** – side-stream filtration of cooling towers, wash systems, and utility water loops

OEM Compatibility & Replacement Cross-Reference

LFX-CMB™ Melt-Blown Polypropylene Depth Filter Cartridges are produced in standard 2.4–2.5" OD with the full legacy length set (9.75"/10"/19.5"/20"/29.25"/30"/40") and DOE as standard (SOE 222/226 options available on request). It is a drop-in¹ for the following melt-blown / spun PP depth families (match length, OD, end style, media and nominal/absolute rating one-for-one):

- **Eaton® – LOFTREX™** melt-blown polypropylene depth cartridges
- **Pentair® (Pentek) – P Series / Polydepth®** spun/melt-blown polypropylene depth cartridges
- **Shelco® – MicroSentry™ MB Series** melt-blown PP depth cartridges
- **Hydronix® – SDC Series** melt-blown PP sediment depth cartridges
- **Parker Hannifin® – Fulflo® MegaBond™** nominal melt-blown depth cartridges
- **Atlas Filtri® – CPP Series** melt-blown PP depth cartridges



Ordering Information - LFX-CMB™ – Melt-Blown Polypropylene Depth Filter Cartridges

When placing an order, please specify the following:

- **Cartridge Lengths:** 9.75", 10", 19.5", 20", 29.25", 30", 40" (custom lengths on request)
 - **Outside Diameter:** 63 mm (2.5" nominal). For 4.5" OD large-diameter formats, refer to LFX-CBIG™ (Big Blue)
 - **Micron Ratings (Nominal):** 1, 3, 5, 10, 20, 25, 50, 75, 100 μm (extended to 150 μm available on request)
 - **Flow direction / reverse ΔP :** Outside-to-inside (standard depth configuration). Reverse flow not permitted. Change-out guidance: Change when ΔP rises ~0.2–0.3 bar above baseline or reaches ~2.4 bar per element, whichever occurs first
 - **Media Type:** Melt-blown polypropylene depth media; multilayer gradient formats available for extended dirt-holding capacity
 - **End-Cap Options:** DOE (double open end), SOE (single open end), 222/226 O-ring with flat or fin end, threaded ends (custom adaptors available)
 - **Gasket/O-Ring Materials:** EPDM, NBR (Buna-N), Silicone, FKM (Viton®), and other elastomers on request
 - **Surface Finish Options:** Coarse Surface for high mechanical strength, smooth surface for low fibre shedding and fine polishing, deep groove for higher flow and extended dirt-holding capacity and minigroove for high filtration efficiency in critical polishing applications
 - **Construction:** 100% polypropylene, thermally bonded structure; binder-free, no adhesives; low extractables
 - **Operating limits (typical):** Max ΔP ~2.5 bar @ 30 °C (forward); de-rate at elevated temperature. Service temperature (PP) typically to ~80 °C in aqueous service (apply the lowest rating among cartridge, elastomer, and housing).
 - **Options:** Silicone-free construction; food-contact compliant variants (FDA 21 CFR; EU 1935/2004 & 10/2011); pre-rinsed low-extractables versions
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¹ Match diameter, length, end style (DOE/222/226), and rating basis (nominal vs absolute) one-for-one; performance (ΔP , efficiency, life) varies by media density and process—verify on critical services

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