



LFX™ Series – Liquid Filtration Excellence Engineered for Results

LFX-BCL™ – Coolant & Lubricant Filter Bags Product Highlights

Filtracore Asia's **LFX-BCL™ Coolant & Lubricant Filter Bags** provide **high-capacity particulate removal** for metalworking coolants, lubricants and cutting fluids, helping reduce equipment wear, minimise tool fouling and extend maintenance intervals – directly lowering total operating costs in machining operations.

Constructed from **premium polypropylene or polyester felt**, LFX-BCL™ bags deliver reliable particulate retention, broad chemical compatibility and consistent micron control across a wide range of coolants and lubricants. For demanding duties, **multilayer polypropylene (MLPP) variants** offer staged depth filtration and enhanced resistance to



tramp-oil fouling, making them ideal for centralised systems and high-solids environments. Bags are available in **multiple micron ratings** to accommodate both fine polishing and bulk contaminant capture, and the engineered design provides stable retention efficiency, high dirt-holding capacity and predictable

differential pressure even under heavy solids loading and high circulation rates. Optional **surface-treatment finishes** further improve performance where oils, emulsions or tramp solids are present.

For applications requiring **extended service intervals**, a pleated variant (**LFX-BCL-P™**) can be specified subject to system suitability. Service life can be maximised by pairing LFX-BCL™ with **upstream magnetic separation** (ACCSX™ options) to capture ferrous fines at source – a best practice in grinding, honing and machining centres. This dual-stage approach reduces premature bag blinding and lengthens replacement intervals.

LFX-BCL™ is manufactured to fit **standard trade-size bag filter housings (#01/#02)** and is compatible with the majority of industry-standard systems from global OEMs, enabling straightforward adoption without system redesign. For procurement teams, it represents a **cost-effective, dependable filtration solution** with predictable change-out schedules, long bag service life and secure global availability.

Built for Throughput. Trusted for Uptime. Ready for the Floor.

Applications - LFX-BCL™ – Coolant & Lubricant Filter Bags

The **LFX-BCL™ Coolant & Lubricant Filter Bag** is applied across a wide range of metalworking and industrial fluid systems where maintaining clean, recirculating coolant and lubricant streams is critical for uptime and product quality. Typical uses include:

- **Grinding & honing operations** – removal of metallic fines and abrasive debris to prevent wheel loading and tool wear.
- **Machining centres & cutting-fluid loops** – maintaining coolant cleanliness to extend tool life and reduce surface defects.
- **EDM (electrical discharge machining) fluids** – capture of fine particles to support stable dielectric performance and consistent spark energy.
- **Rolling & forming mills** – filtration of rolling oils and forming lubricants to maintain uniform surface finish.
- **Hydraulic & lubricant reservoirs (side-stream)** – reduction of wear particles and varnish precursors to support component life.
- **General industrial coolant systems** – applications across automotive, aerospace and precision component manufacturing.

OEM Compatibility & Replacement Cross-Reference

LFX-BCL™ Coolant & Lubricant Filter Bags are engineered to fit industry-standard coolant and lubrication filtration housings used in machining, grinding and metalworking operations, and provide drop-in replacements for equivalent trade-size bags from:

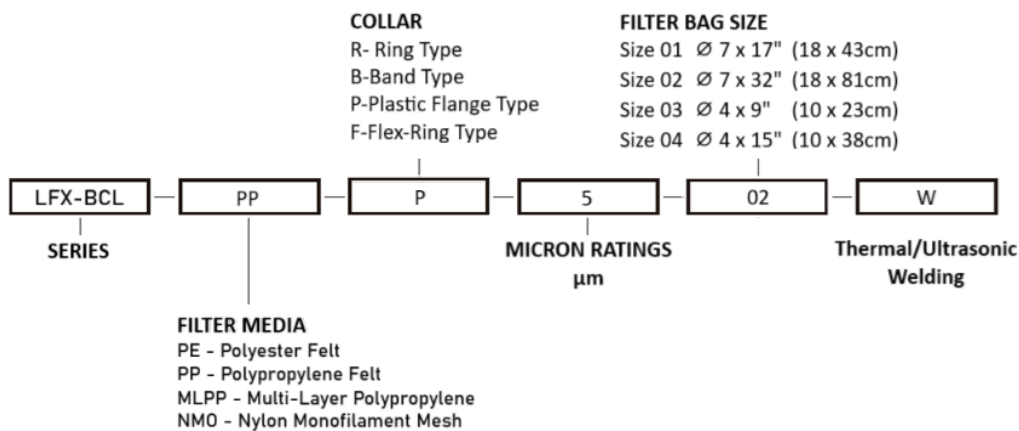
- **Eaton®** – LOFCLEAR™ and UNIBAG™ liquid filter bag ranges; compatible with **FLOWLINE®** and **FLOWLINE II®** housings
- **Parker Hannifin®** – FULFLO® liquid filter bags
- **Filtration Group® / FSI®** – bags for FSPN and FSB series housings
- **Pentair® / Shelco®** – bags for Shelco BFS multi-bag housings
- **Krystil Klear®** – polypropylene/polyester liquid filter bags for coolant service
- **Hayward® Flow Control** – bags for FLV series thermoplastic bag housings
- **Rosedale Products®** – standard polypropylene and polyester felt filter bags



Other compatible OEM systems upon request

Ordering Information - LFX-BCL™ – Coolant & Lubricant Filter Bags

- **Bag size**
Standard trade sizes #01 / #02; custom sizes available on request.
- **Micron ratings**
1–200 µm standard. Popular coolant grades: 10, 25, 50, 100 µm. Extended ranges available on request.
- **Media type**
 - **Polypropylene felt (PP)** – general-purpose depth filtration; wide coolant compatibility.
 - **Polyester felt (PET)** – enhanced thermal/chemical resistance.
 - **Multilayer polypropylene (MLPP)** – staged depth build with pre-filter felt, oil-adsorbing polypropylene microfibre layer, and optional spunbond PP outer cover for higher dirt-holding and improved resistance to tramp-oil fouling.
 - **Nylon monofilament mesh (NMO)** – reusable surface media for coarse particulate and sediment-heavy systems.
- **Finishes & treatments**
Silicone-free build, heat-set/thermally treated surfaces, oil-repellent finishes, and other performance treatments available.
- **Top options (sealing interface)**
Metal snap-ring (galvanised steel or stainless steel) or moulded collar/flange (PP/PET) to match OEM housing profiles.
- **Bottom options**
Flat welded disc (standard). Alternative bottoms available on request for specific housings.
- **Seam construction**
Fully welded as standard for secure, fibre-free sealing. Sewn seams available on request for selected housings.
- **Accessories**
Upstream magnetic separation inserts (ACCSX™) for capture of ferrous fines and extended bag life.
- **Pleated format**
LFX-BCL-P™ available on request; pleated design increases effective surface area, reducing face velocity and initial differential pressure, thereby extending service intervals (subject to system suitability).



¹ Compatibility may vary depending on housing configuration, ring type, or custom OEM specifications. Always verify dimensions and material compatibility before replacement.

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