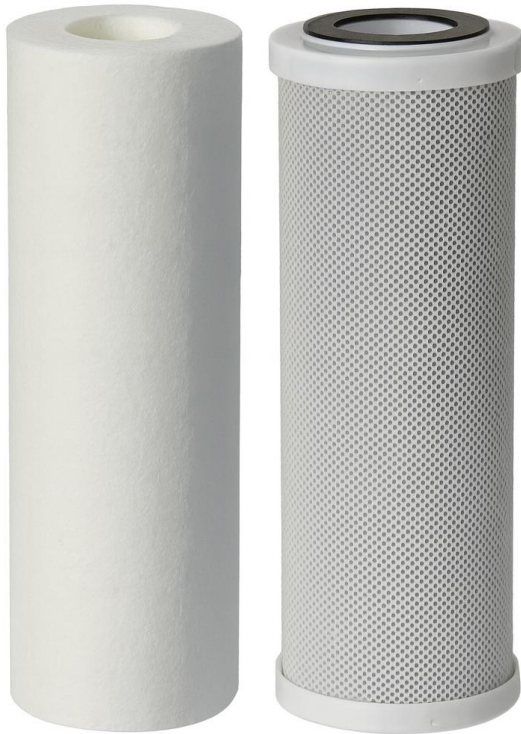




LFX™ Series – Liquid Filtration Excellence Engineered for Results

LFX-CBIG™ – Big Blue High-Flow Depth Filter Cartridges Product Highlights

Filtracore Asia's **LFX-CBIG™ – Big Blue High-Flow Filter Cartridges** deliver **high-capacity depth filtration** in large-diameter (**4.5" OD**) formats for commercial and industrial water treatment. Available in **10" and 20"** lengths to fit standard **Big Blue-style housings**, LFX-CBIG™ provides **low initial ΔP**, **high dirt-holding**, and **long service life** – reducing change-outs and total operating cost versus standard 2.5" cartridges.



Built in **two media constructions** to cover the majority of high-flow sediment applications: **LFX-CBIG™-MB** uses **graded-density melt-blown polypropylene** for broad utility water and RO prefiltration, while **LFX-CBIG™-SW** uses **string-wound polypropylene yarn** for coarser, high-load, or more viscous service. Both constructions feature **all-polypropylene, thermally bonded, binder-free** wetted parts for **low extractables** and **wide chemical compatibility** in typical plant utilities.

For procurement teams, LFX-CBIG™ combines **drop-in interchangeability** with mainstream Big Blue housings, **competitive pricing**, and **fast availability** – a reliable, mass-market workhorse for prefiltration and polishing of commercial water and light industrial streams. **Core SKUs:** Melt-Blown (MB) 10" and 20" in nominal **1, 5, 10, 20, 50, 100 μm**; String-Wound (SW) 10" and 20" in nominal **0.5, 1, 5, 10, 20, 30, 50, 75, 100, 150 μm**; end style **DOE**

with end-gaskets (Big Blue standard); elastomers **EPDM, Silicone, NBR (FKM on request)**.

To **de-risk sourcing**, LFX-CBIG™ is produced under **ISO 9001** with **tight dimensional controls** for Big Blue fit, **full lot/traceability labelling**, and packaging that protects media during transit and storage. **Food-contact compliant variants (FDA 21 CFR; EU 1935/2004 & 10/2011)** are available on request, with elastomer options to match installed fleets. We maintain **core SKUs in regional stock** for short lead times and can support **private-label printing, bundled spares**, and **OEM cross-reference assistance** to simplify qualification. The result is a **cost-stable, drop-in replacement** that protects uptime while reducing total lifecycle cost.

High Flow. High Dirt-Holding. Big Blue-Standard Compatibility.

Applications - LFX-CBIG™ – Big Blue High-Flow Depth Filter Cartridges

LFX-CBIG™ Big Blue High-Flow Depth Filter Cartridges are deployed in commercial and light-industrial water systems where high-flow sediment reduction, low differential pressure, and long service life are critical to uptime and operating cost. Typical applications include:

- **Municipal & Commercial POE/Whole-Site Filtration** – bulk sediment reduction for buildings, campuses, food service outlets, and centralized utility rooms using standard Big Blue housings
- **RO/EDI Pretreatment** – high-capacity particulate control ahead of RO membranes and DI/EDI units to reduce fouling and extend downstream element life
- **Food Service & Hospitality** – prefiltration for beverage dispensers, ice machines, coffee/tea equipment, and kitchen process water where low ΔP and long change-out intervals are important
- **Manufacturing Utilities & Rinse Water** – clarification of cooling loops, general rinse lines, and wash systems on plant skids; ideal as a guard stage before finer pleated filters
- **Metal Finishing, Plating & Parts Washing** – coarse/fine sediment removal from make-up water and bath overflows to protect pumps, sprays, and nozzles
- **Cooling Towers & Side-Stream Filtration** – reduction of suspended solids to improve heat-exchange efficiency and reduce blowdown frequency
- **Well Water & Groundwater Treatment** – turbidity and sand/silt removal in commercial well systems and booster sets
- **Electronics & General Industrial Pretreatment** – upstream sediment control prior to cartridge/membrane polishing; not intended for final UPW/WFI or validated sterile service (use LFX-CPLEAT-PP™ or sterile PES/PTFE lines for those duties)



OEM Compatibility & Replacement Cross-Reference

LFX-CBIG™ – Big Blue High-Flow Filter Cartridges are produced in Big Blue–standard 4.5" OD for 10" and 20" housings with DOE, end-gasket sealing. Representative drop-in¹ families include:

Pentair® (Pentek) – DGD Series (dual-gradient melt-blown); sized specifically for Big Blue® housings (4.5" OD, 10"/20")

Pentair® (Pentek) – WP-BB Series (string-wound) and SDC/SD-BB sediment depth variants for Big Blue housings

Hydronix® – SDC Series (4.5" diameter melt-blown) and SWC 10"/20" Big Blue string-wound cartridges

Shelco® – "Full-Flow / Big Blue" wound and MicroSentry™ MB 4.5" OD melt-blown cartridges

Ordering Information - LFX-CBIG™ – Big Blue High-Flow Depth Filter Cartridges

When placing an order, please specify the following:

- **Cartridge Formats:**
LFX-CBIG™-MB (graded-density melt-blown polypropylene); LFX-CBIG™-SW (string-wound polypropylene yarn)
- **Lengths / Diameter (Big Blue-style):**
10" (nominal 9.75–10") × 4.5" OD (≈114 mm); 20" × 4.5" OD (≈114 mm). Fits standard DOE Big Blue housings; verify housing length before ordering
- **Micron Ratings (Nominal):**
Melt-Blown (MB): 1, 5, 10, 20, 50, 100 μm
String-Wound (SW): 0.5, 1, 5, 10, 20, 30, 50, 75, 100, 150 μm
- **End Style / Seals:**
DOE (Double Open End) with end-gaskets (Big Blue standard). Elastomers: EPDM (standard); Silicone, NBR (Buna-N); FKM (Viton®) on request
- **Materials of Construction (Wetted Parts):**
Media: Polypropylene (melt-blown microfibers or PP yarn). Core / Endcaps: Polypropylene (thermally bonded, binder-free). Reinforced core option available on request for higher ΔP / viscous service
- **Flow Direction:**
Outside-to-inside (standard depth configuration)
- **Operating Limits & Change-Out Guidance:**
Maximum operating temperature: up to -60 °C (140 °F) continuous (subject to elastomer and housing limits). Maximum operating temperature up to -38 °C continuous for typical PP Big Blue housings (higher only if the installed housing is rated accordingly). Recommended change-out: ~1.4 bar (20 psid) for depth cartridges in Big Blue format, or per process criticality
- **Chemical Compatibility:**
Suitable for most aqueous acids/alkalis and plant utility waters; avoid strong oxidisers and halogenated hydrocarbons unless validated
- **Compliance (Options):**
Food-contact compliant variants available (FDA 21 CFR; EU 1935/2004 & 10/2011) – documentation on request
- **Packaging / Identification:**
Individually bagged in a controlled environment; carton-packed. Each cartridge labelled with series (LFX-CBIG™), media (MB/SW), micron rating, length, elastomer, and lot/traceability number (barcode on request)



¹ Cross-references are based on form/fit/function only—match OD (4.5"), length (10"/20"), end style (DOE with end gaskets), construction (melt-blown or string-wound), media/core materials, and nominal micron rating one-for-one. Performance (ΔP , efficiency, capacity) varies by media density and winding/gradient design; verify against the cited OEM datasheets for critical services. No third-party certifications (e.g., NSF/ANSI) are implied unless explicitly specified for the FiltraCore SKU. Housing limits for temperature/pressure govern allowable operating envelope.

All OEM product names are trademarks of their respective holders. Use of these names does not imply affiliation or endorsement. Images shown have been professionally enhanced for visual clarity. Actual product details and appearance may differ.



■ sales@filtracoreasia.com ■ www.filtracoreasia.com ■ +65 89-FILTER (+65 89-345837)

All information and recommendations appearing in this brochure concerning the use of products described herein are based on tests believed to be reliable. However, it is the user's responsibility to determine the suitability of such products for their own use. Since actual use is beyond our control, no guarantee, expressed or implied, is made by FiltraCore Asia regarding the effects or results of such use. FiltraCore Asia assumes no liability arising from the use of these products. This document is not to be construed as complete, as additional information may be necessary under specific conditions or due to applicable laws and regulations.

© 2025 FiltraCore Asia. All rights reserved. All trademarks and registered trademarks are the property of their respective owners.