



LFX™ Series – Liquid Filtration Excellence Engineered for Results

LFX-CSW™ String-Wound Depth Filter Cartridges Product Highlights

Filtracore Asia's **LFX-CSW™ String-Wound Depth Filter Cartridges** deliver robust, cost-efficient depth filtration for industrial water and process fluids. A precision, diamond-pattern winding forms a graded porosity from the outer layer to the core, creating high void volume and tortuous flow paths that drive **high dirt-holding**, **low initial ΔP**, and **stable performance** through the service cycle – ideal for removing sand, rust, silt, scale, and general particulates in utility and pretreatment duty.



The construction portfolio is engineered for fit-for-purpose performance across site conditions. The standard build uses **polypropylene yarn on a polypropylene core** for broad chemical compatibility in plant utilities; for higher-temperature or solvent-lean service, **cotton or glass-fibre yarn with 304/316 stainless-steel cores** is available. All builds are binder-free and run **outside-to-inside** to maximise contaminant accommodation while minimising fibre migration.

Core SKUs span nominal 1–100 μm, with **extended options from 0.5–150 μm** available where finer cut-points or coarse guard filtration are specified. This range ensures straightforward

substitution into existing systems and lets specifiers stage coarse-to-fine trains without changing housings. Form factors match industry standards for drop-in interchangeability. **2.5" OD** cartridges are offered in **10", 20", 30", and 40"** lengths with **DOE** ends for universal housings; **SOE 222/226 (flat/fin)** options are available for sealed housings that require positive engagement. Large-diameter **4.5" OD** "Big Blue" variants are supplied under **LFX-CBIG™-SW** to support high-flow installations using standard Big Blue-style housings.

For procurement teams, **LFX-CSW™** combines **drop-in fit**, **broad SKU coverage (1–150 μm)**, and **consistent, stocked builds at competitive pricing**, providing a dependable replacement for big-brand wound depth cartridges in guard stages and bulk-solids removal – without disrupting existing housings, standards, or qualification packages.

High Dirt-Holding. Low ΔP. Industrial-Grade Depth Performance.

Applications - LFX-CSW™ String-Wound Depth Filter Cartridges

LFX-CSW™ String-Wound Depth Filter Cartridges are deployed where coarse-to-fine particulate control, high solids capacity, and cost-efficient prefiltration are required:

- **Industrial Process Water** – sediment reduction in make-up, rinse, and wash streams; guard filtration ahead of pleated cartridges
- **RO/EDI Pretreatment** – particulate control to minimize membrane fouling in desalination and high-purity water plants
- **Metal Finishing & Plating** – fines, rust, and scale removal from plating baths, parts washers, and recirculating loops
- **Chemical & Coatings** – bulk particulate removal in blending, recirculation, and transfer of compatible fluids (confirm yarn/core elastomer compatibility)
- **Food & Beverage Utilities** – prefiltration of incoming water and CIP rinse streams (non-sterile utility service)
- **Well Water & Groundwater** – turbidity and sand/silt reduction for commercial installations



OEM Compatibility & Replacement Cross-Reference

LFX-CSW™ String-Wound Depth Filter Cartridges are produced in industry-standard 2.4–2.5" OD, in 9.75"/10"/19.5"/20"/29.25"/30"/40" lengths, DOE standard (222/226 options available). It is a drop-in¹ for

the following OEM wound-depth families (match length, OD, end style, media and micron rating one-for-one):

- **Eaton®** – **LOFWIND™** string-wound depth cartridges
 - **Parker Hannifin®** – **Fulflo® Honeycomb™ Wound** cartridges
 - **Pentair® (Pentek)** – **WP Series** (2.5" OD wound PP) and **WP-BB Series** (4.5" OD "Big Blue") for large-diameter housings. (*Big-Blue formats map to LFX-CBIG™-SW*)
 - **Shelco®** – **MicroSentry™ MS Series** string-wound cartridges
 - **Pall®** – **Encore® String-Wound / DFT-KK** large-diameter wound cartridges
 - **Hydronix®** – **SWC Series** string-wound PP cartridges
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Ordering Information - LFX-CSW™ String-Wound Depth Filter Cartridges

When placing an order, please specify the following:

- **Cartridge Formats:** Polypropylene yarn on polypropylene core (standard). Optional yarns: bleached cotton, glass-fibre. Optional cores: 304/316 stainless-steel for elevated temperature/viscosity service. Binder-free construction
- **Micron Ratings (Nominal):** Core range 1, 3, 5, 10, 20, 30, 50, 75, 100 µm; extended options 0.5, 25, 125, 150 µm available to order
 - **Lengths / Diameter:** 10", 20", 30", 40" in standard 2.5" OD class; custom shorts on request. For 4.5" OD, see LFX-CBIG™-SW
 - **End Styles / Seals:** DOE (double open end) standard; SOE 222/Flat, 222/Fin, 226/Flat, 226/Fin available. Elastomers: EPDM (standard), Silicone, NBR (Buna-N), FKM (Viton®).
 - **Flow Direction:** Outside-to-inside (depth configuration)
 - **Operating Temperature (media/core dependent):** PP yarn on PP core typically to ~165 °F (74 °C); cotton or glass-fiber on SS core can be applied at higher temperatures per application validation. Always follow housing and elastomer limits
 - **Differential Pressure / Structural Ratings:** Change-out ΔP (per element) 1.4 bar (20 psid); maximum continuous ΔP (forward) 2.4 bar (35 psid) at ≤25 °C; reverse ΔP ≤0.3 bar (5 psid) (reverse flow not permitted). Do not exceed the lowest rated component (cartridge, housing, seals)
- **Compliance:** Food-contact compliant variants available (FDA 21 CFR; EU 1935/2004 & 10/2011). Manufactured under ISO 9001
- **Packaging / Identification:** Individually bagged; each element labelled with series (LFX-CSW), yarn/core, micron rating, length, end style, elastomer, and lot/traceability code



¹ Cross-references are based on form/fit/function only—match diameter, length, end style (DOE/222/226), media/yarn and core material, and nominal micron rating one-for-one. Performance characteristics (ΔP , efficiency, capacity) can vary by winding density and media construction; verify against the cited OEM datasheets for critical services. Note that 4.5" OD "Big Blue" wound cartridges map to LFX-CBIG-SW™, not LFX-CSW™; confirm housing model and gasket/elastomer compatibility. No third-party certifications are implied unless explicitly specified for the FiltraCore SKU.

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.



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