HFX Series

# HFX™ Series – Housing Filtration Excellence Engineered for Performance

## HFX-SS-CF-MC™ – Stainless Steel Multi-Cartridge Housing Product Highlights

FiltraCore Asia's **HFX-SS-CF-MC™ – Stainless Steel Multi-Cartridge Housings** are engineered for large-volume liquid filtration where **uptime, reliability, and cost efficiency** are critical. Designed to hold multiple industry-standard **2.5" OD cartridges in 20", 30", and 40" lengths**, they provide **high-capacity throughput, reduce change-out frequency, and deliver consistent filtrate quality at scale**.

Constructed from SS304 for utility service or SS316L as the global industry standard, with SS316Ti available for European specifications, and optional Duplex SS (2205/2507) or Titanium Grade 2 for highly corrosive applications, these housings **balance mechanical robustness, chemical compatibility, and service life across diverse industries**.

A side-entry inlet with bottom outlet is standard, **promoting** uniform distribution, a compact footprint, and **facilitating** drainage. Alternative configurations — including side-outlet, tangential-outlet, or dual-nozzle layouts (on request) — support skid-mounted designs, retrofit projects, and optimised piping arrangements. To improve ergonomics and reduce platform requirements, housings are available in vertical (standard) or horizontal layouts, the latter **enhancing operator access and simplifying cartridge change-outs**.

Swing-bolt or eye-bolt closures with davit-assisted covers ensure safe, repeatable maintenance, while optional sanitary polish (≤0.6 Ra µm) or electropolish (≤0.4 Ra µm) finishes meet food, beverage, and pharmaceutical requirements. **Each housing is hydrostatically tested per applicable code requirements (ASME VIII UG-99 / PED)** and can be supplied **with ASME Section VIII Div. 1 or PED 2014/68/EU conformity when specified and documented**. Engineered for alignment with common multi-cartridge formats, the HFX-SS-CF-MC™ provides long-term reliability, reduced maintenance costs, and seamless system integration **when dimensional and rating compatibility are verified for the installation**.

***Scalable Capacity. Flexible Material Choices. Proven Procurement Value.***

## Applications - HFX-SS-CF-MC™ – Stainless Steel Multi-Cartridge Housing

- **Municipal and industrial water treatment** (intake, polishing, RO pretreatment)
- **Power generation** (condensate, cooling water, boiler feed)
- **Food & beverage** (process water, syrups, beverages, CIP streams)
- **Pharmaceuticals & biotech** (utility water, non-sterile process streams)
- **Chemicals and petrochemicals** (bulk intermediates, solvents, resins)
- **Marine & offshore** (desalination, ballast, produced water)
- **General industrial liquids** requiring high volume capacity with minimal footprint, and **other demanding industrial applications**

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## OEM Compatibility & Replacement Cross-Reference

FiltraCore Asia's **HFX-SS-CF-MC™ – Stainless Steel Multi-Cartridge Housings** are compatible with industry-standard 2.5″ OD, 20″–40″ multi-round cartridge formats and may be used as functional replacements[1] for the following, provided dimensional and hydraulic compatibility (ports/centres, nozzle class, footprint/height, hold-down, and MAWP/temperature class) are verified for each installation.

- **Eaton®** – ECOCART™/TOPCART™ Multi-Filter Cartridge Housings
- **Parker Hannifin®** – Fulflo® S/MP Series Multi-Cartridge Filter Vessels
- **Amazon Filters®** – 61 / 62 / 63 / 64 Series Multi-Cartridge Housings
- **Shelco®** – FOS / HF / UHF Series Multi-Cartridge Housings
- **Pall®** – FMO Multi-Cartridge Filter Housings

***Other compatible OEM systems upon request***

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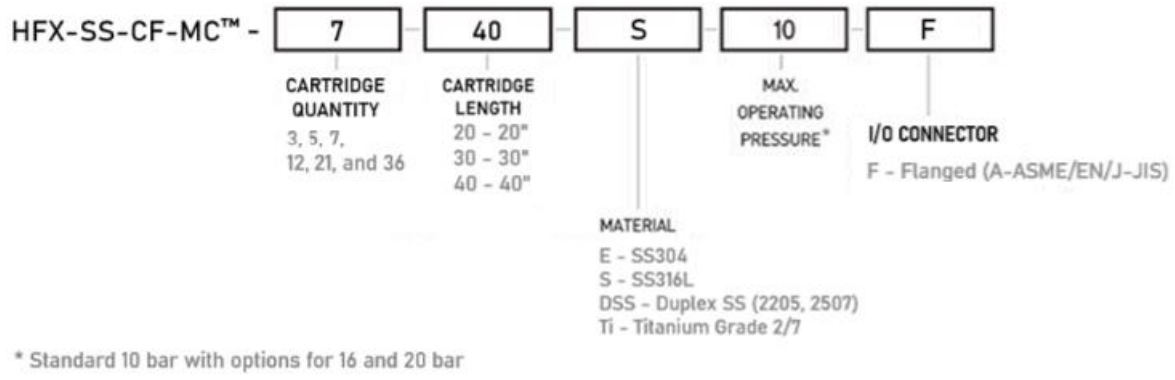
## Key Features - HFX-SS-CF-MC™ – Stainless Steel Multi-Cartridge Housing

- **Heavy-duty stainless-steel construction:** SS304 for cost-sensitive use, SS316L as global standard, 316Ti optional for EU specs; Duplex SS or Titanium Grade 2 for extreme corrosion ensures long service life and chemical resistance.
- **Cartridge compatibility:** industry-standard 2.5″ OD cartridges in 20″, 30″, and 40″ lengths (10″ available on request for compact or OEM-specific multi-cartridge systems); multi-round configurations (3–36 cartridges) provide scalable flow rates.

- **Flexible I/O configurations:** side-in/bottom-out standard; side/side or tangential nozzles available for skid layouts; dual-nozzle tie-ins support retrofit or parallel header use.
- **Vertical and horizontal orientations:** vertical design (standard) delivers compact footprint; horizontal housings available where headroom is limited, improving ergonomics and change-out safety.
- **Operator-friendly closures:** swing-bolt or eye-bolt with davit-assisted cover (spring assist optional) for safe, repeatable cartridge change-outs.
- **Precision-machined cartridge seats and stainless internals:** ensure secure DOE/222/226 sealing and consistent filtrate quality with minimal bypass.
- **Optional sanitary finishes:** ≤0.6 Ra µm polish or ≤0.4 Ra µm electropolish support compliance in food, beverage, and pharmaceutical processes.
- **Tested to recognised codes:** hydrostatic test per applicable code requirements (ASME VIII UG-99 / PED); ASME Section VIII Div. 1 or PED 2014/68/EU conformity available when specified and documented.
- **OEM alignment:** engineered to align with major multi-cartridge housing formats; verify port size/type and centres, nozzle class, footprint/height, closure/hold-down, basket/adapter geometry, and MAWP/temperature class before retrofit.
- **Lower total cost of ownership:** through reduced downtime, extended service life, and simplified maintenance.

## Ordering Information - HFX-SS-CF-MC™ – Stainless Steel Multi-Cartridge Housing

- **Model:** HFX-SS-CF-MC™ – Stainless Steel Multi-Cartridge Housing
- **Cartridge Compatibility:** industry-standard 2.5" OD cartridges in 20", 30", and 40" lengths (10" available on request for compact or OEM-specific systems); accepts DOE, 222, and 226 end-cap styles
- **Cartridge Count:** available in 3 to 36 cartridge configurations; larger designs (52, 72, and above) available on request
- **Material of Construction:** SS304 (standard), SS316L (industry standard), 316Ti (optional for EU specs), Duplex SS (2205/2507) or Titanium Grade 2 (optional for aggressive fluids)
- **Closure:** swing-bolt or eye-bolt with davit-arm or spring-assisted hinged cover
- **Seal Options:** Buna-N, EPDM, Silicone, Viton®, PTFE, PTFE-encapsulated elastomers (USP Class VI available for biopharma)
- **Inlet/Outlet Connections:** side-entry with bottom outlet (standard). Alternative side/side or tangential nozzles available. Flanged per ASME B16.5 Class 150 or EN 1092-1 PN16 (DN50–DN350). Optional JIS flanges available on request
- **Vent & Drain Ports:** ½" BSPT/NPT vent (top) for safe depressurisation; 1"–1½" BSPT/NPT drain (bottom) to facilitate vessel emptying and CIP/SIP service (up to 2" on large housings)
- **Pressure Ratings:** 10 bar (145 psi) standard; 16 bar (232 psi) and 20 bar on request
- **Temperature Range:** −20 °C to 120 °C (standard); up to 150 °C with PTFE/Silicone seals for SIP duty
- **Surface Finish:** bead-blast (industrial standard); sanitary polish ≤0.6 Ra µm or electropolish ≤0.4 Ra µm for hygienic applications
- **Orientation:** vertical (standard). Horizontal configurations available for low-headroom installations or ergonomic cartridge access
- **Compliance / Code:** designed to ASME Section VIII Div. 1 / PED 2014/68/EU; hydrostatically tested per applicable code requirements (ASME VIII UG-99 / PED)**;** code stamping optional



*[1] Compatibility refers to: cartridge geometry (2.5" nominal OD), common end-connections (DOE, 222/226/Code 3/8), typical nozzle orientations (side-in/bottom-out or side/side), and comparable pressure classes. Always verify nozzle size/standard, face-to-face, hold-down/seal detail, and code stamping prior to installation.*

*All data, dimensions, and ratings are provided for general reference only. FiltraCore housings are designed and hydrotested in accordance with relevant industry standards; however, actual performance will vary with process conditions, media, and installation. Maximum operating pressure and temperature are subject to material selection, gasket/elastomer choice, and design code (ASME/PED, where applicable). Standard rating is 10 bar (145 psi) @ 20 °C, with a maximum operating temperature of 120 °C, or up to 150 °C with PTFE/silicone seals for SIP duty.*

*Chemical compatibility of housing materials, seals, and gaskets with the process fluid is the sole responsibility of the user; data provided are general guidelines derived from industry sources and laboratory testing, and actual performance may vary with concentration, temperature, and process variables.*

*Wetted parts in SS304/SS316L (optional Duplex SS 2205/2507 or Titanium Grade 2) provide broad resistance to aqueous solutions, hydrocarbons, and process chemicals not corrosive to stainless steel, while elastomer options (EPDM, Viton®, PTFE, PTFE-encapsulated) extend compatibility across most industrial and sanitary applications. For specific chemical resistance, consult the FiltraCore Chemical Resistance Guide or contact our technical team.*

*FiltraCore assumes no liability for improper use, chemical incompatibility, installation, or operation beyond published ratings. Specifications are subject to change without notice as part of continuous product improvement.*

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