



HF_X™ Series – Housing Filtration Excellence Engineered for Performance

HF_X-SS-CF-MC-HF™ – Stainless Steel High Flow Multi-Cartridge Housing Product Highlights

Filtracore Asia's **HF_X-SS-CF-MC-HF™ – Stainless Steel High Flow Multi-Cartridge Housings** are purpose-built for **large-scale, high-capacity liquid processing** where

maximum flow, compact footprint, and operator safety are critical. Constructed from **304 or 316L stainless steel** (Duplex SS 2205/2507 available on request), these housings combine **robust strength, broad chemical resistance, and long service life** in demanding industrial and utility applications.



Designed to hold **4, 7, 11, or more 6" OD high-flow cartridges** in **20", 40", and 60" lengths**, the HF_X-SS-CF-MC-HF™ achieves **up to ~400 m³/h per housing (water @ 25 °C, ΔP ≤ 0.5 bar)**. **Positive-sealing baskets** and **precision-machined cartridge seats** support **leak-tight operation** and **consistent filtrate quality**.

To maximise installation flexibility, the housings are available in **vertical and horizontal configurations**. **Vertical orientation** provides a space-efficient footprint for compact skids and plantrooms, while **horizontal orientation** can **improve ergonomics for 40" and 60" cartridges**, reducing working-at-height requirements and change-out time in high-throughput facilities.

Swing-bolt or eye-bolt closures (with **davit-assisted lids** on large-diameter and horizontal models) enable quick, secure access for cartridge replacement. **Optional sanitary finishes** (≤0.6 μm Ra polish or ≤0.4 μm Ra electropolish) extend applications to food, beverage, and pharmaceutical service, while **ASME Section VIII Div. 1 / PED 2014/68/EU conformity** is available when specified and documented for regulated installations.

High Flow. Flexible Orientation. Proven at Scale.

Applications - HFX-SS-CF-MC-HF™ – Stainless Steel High Flow Multi-Cartridge Housing

FiltraCore Asia's **HFX-SS-CF-MC-HF™** housings are designed for the most demanding liquid process environments where very high flow capacity, robust construction, and ease of maintenance are critical. Typical applications include:

- **Municipal and industrial water treatment** – intake, polishing, seawater-desalination pretreatment, and large RO systems
- **Power generation** – condensate, cooling water, boiler feed, turbine-wash systems
- **Food & beverage** – high-volume process water, syrups, beverages, CIP streams
- **Pharmaceuticals & biotechnology** – utility water, buffers/intermediates, and non-sterile process steps (use sanitary variants for hygienic/sterile service)
- **Chemicals & petrochemicals** – bulk intermediates, solvents, resins, high-throughput liquid handling systems
- **Marine & offshore** – ballast water, produced water, desalination intakes
- **General industrial liquids** requiring large-scale filtration with a reduced footprint and ergonomic cartridge handling

OEM Compatibility & Replacement Cross-Reference

FiltraCore Asia's **HFX-SS-CF-MC-HF™ Stainless Steel High Flow Multi-Cartridge housings** are engineered around industry-standard 6" OD high-flow cartridge formats in 20", 40", and 60" lengths. This dimensional design allows integration into existing process lines and may serve as a drop-in replacement¹ for equivalent high-flow multi-cartridge housings from major OEMs, subject to end-user verification of nozzle size/class, port centres, and operating pressure/temperature ratings. Compatible high-flow housing lines include:

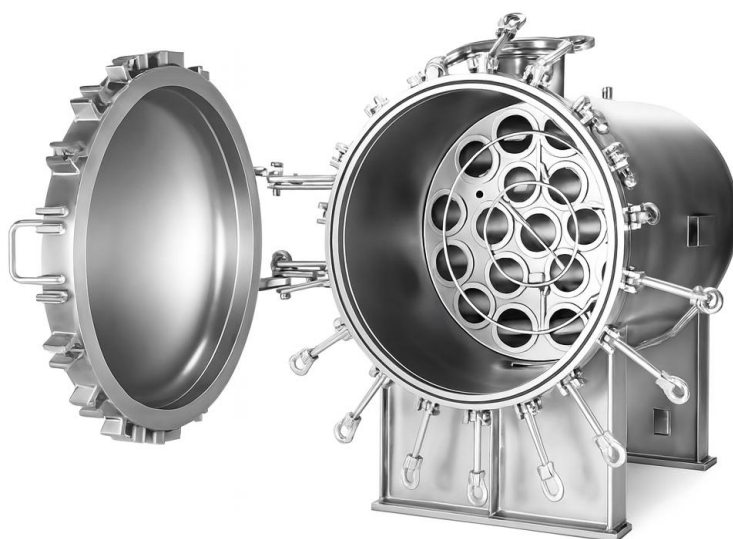
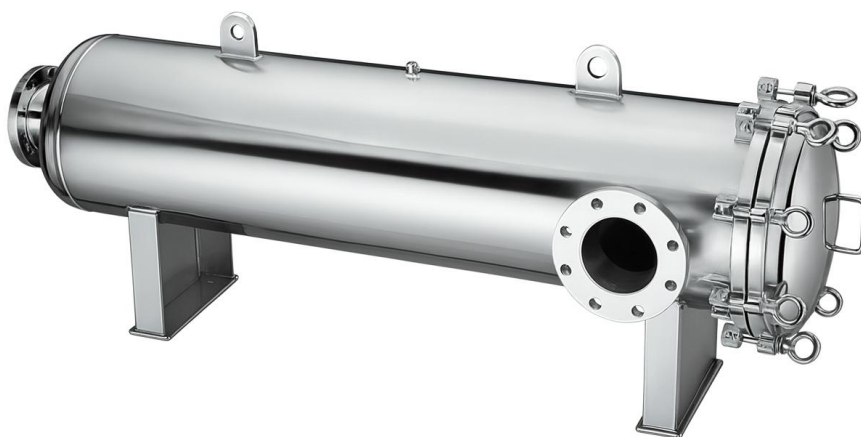
- **Eaton® TOPCART®** HF Series
- **Pall® Ultipleat®** High Flow housings
- **Parker Hannifin® MegaFlow®** housings
- **Amazon Filters®** 66 Series High Flow housings

Other compatible OEM systems upon request



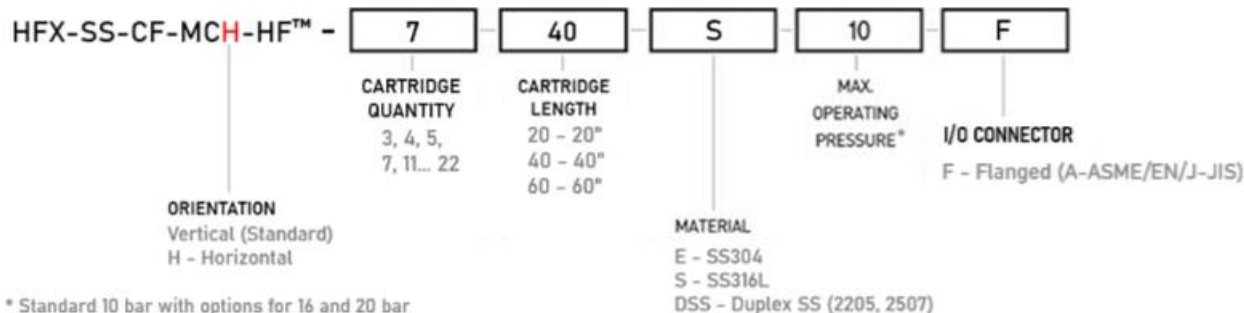
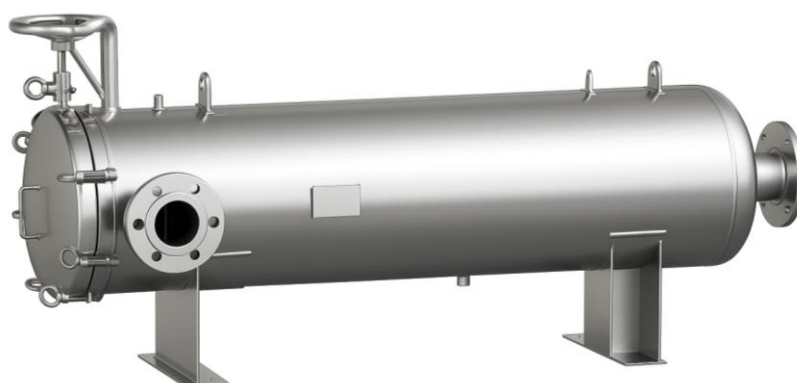
Key Features - HFX-SS-CF-MC-HF™ – Stainless Steel High Flow Multi-Cartridge Housing

- **Construction:** Heavy-duty stainless steel (SS304/SS316L standard; Duplex SS 2205/2507 optional) for long service life and broad chemical compatibility
- **Capacity:** 4, 7, 11 or more 6" OD high-flow cartridges in 20", 40", or 60" lengths; up to ~400 m³/h per housing (water @ 25 °C, $\Delta P \leq 0.5$ bar)
- **Orientation:** Vertical and horizontal designs; horizontal improves ergonomics for 40"/60" cartridges and reduces working-at-height requirements
- **Sealing & internals:** Positive-sealing baskets and precision-machined cartridge seats minimise bypass and support consistent filtrate quality
- **Closures:** Swing-bolt or eye-bolt lids with davit arms on large-diameter and horizontal models for secure change-out access
- **Surface finish:** Optional sanitary polish $\leq 0.6 \mu\text{m Ra}$ or electropolish $\leq 0.4 \mu\text{m Ra}$ for food, beverage, and pharmaceutical service
- **Service conditions:** Suitable for CIP/SIP up to ~150 °C (seal-dependent; pressure/temperature derating applies)
- **Compliance options:** PED 2014/68/EU and ASME Section VIII Div. 1 conformity available when specified and documented; ATEX on request
- **OEM compatibility:** Functional replacement for Eaton®, Pall®, Pentair®, Parker Hannifin®, and Amazon Filters® high-flow housings when dimensional and rating compatibility are verified



Ordering Information - HFX-SS-CF-MC-HF™ – Stainless Steel High Flow Multi-Cartridge Housing

- **Model:** HFX-SS-CF-MC-HF™ – Stainless Steel High Flow Multi-Cartridge Housing
- **Cartridge Capacity:** 4, 7, 11, or more cartridges per housing (6" OD high-flow format)
- **Cartridge Lengths:** 20", 40", 60"
- **Cartridge Compatibility:** Industry-standard 6" OD high-flow cartridges (Pall®, Pentair®, Eaton®, Parker Hannifin®, Amazon® equivalents)
- **Material of Construction:** SS316L (standard), SS304 and Duplex SS 2205/2507 optional
- **Closure Type:** Swing-bolt or eye-bolt closure; davit arm standard on horizontal and large-diameter covers
- **Seal Options:** EPDM, Buna-N, Viton® (FKM), Silicone, PTFE, PTFE-encapsulated elastomers (FDA- and USP Class VI-compliant options available)
- **Inlet/Outlet Connections:** ANSI 150 / DIN PN16 flanged – DN200 (8") for 4-round, DN250 (10") for 7-round, DN300 (12") for 11-round housings (size scales with cartridge count/length). BSPT/NPT threaded vents and drains optional
- **Vent & Drain Ports:** ½" BSPT (NPT optional) vent; 1" BSPT/NPT drain with optional instrumentation/Differential Pressure ports
- **Pressure Rating:** 10 bar (145 psi) standard; high-pressure models available on request (up to 16–20 bar depending on size and code requirements)
- **Temperature Rating:** –20 °C to 121 °C continuous; up to 150 °C during SIP cycles (seal-dependent)
- **Surface Finish:** Industrial bead-blast (standard); sanitary polish $\leq 0.6 \mu\text{m Ra}$ or electropolish $\leq 0.4 \mu\text{m Ra}$ (optional)
- **Cartridge Support:** Perforated stainless steel support baskets (standard) ensure alignment, stability, and positive sealing of 6" OD high-flow cartridges
- **Orientation:** Vertical or horizontal configuration available (model-dependent)
- **Mounting:** Skid or base-plate ready; lifting lugs standard on large housings
- **Compliance / Code:** PED 2014/68/EU, ASME Section VIII Div. 1 (code-stamped models available), ATEX Directive 2014/34/EU compliant versions available on request



¹ Compatibility based on dimensional standards for 6" OD high-flow cartridges and housing geometries. End-user validation is required to confirm fit, code stamping, and performance in each specific 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.

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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