



HF_X[™] Series – Housing Filtration Excellence Engineered for Performance

HF_X-SS-CF-SC-SAN[™] – Stainless Steel Sanitary Single Cartridge Housing Product Highlights

Filtracore Asia's **HF_X-SS-CF-SC-SAN[™] Stainless Steel Sanitary Single Cartridge Housings** are purpose-built for hygiene-critical liquid processing in pharmaceutical, biotech, and food & beverage environments. Constructed from 316L stainless steel (304 optional) with a **crevice-minimising sanitary geometry** and sanitary tri-clamp connections, the housings **support effective cleaning, sterilisation, and regulatory compliance when installed and validated per site procedures**. Internal surfaces are electropolished to a hygienic finish (typically **0.4–0.8 µm Ra**, model-dependent), **supporting CIP/SIP cleanability**, low surface roughness, and minimised product hold-up.



The housings accommodate **SOE cartridges (Code 7/8; 222/226 O-ring, with or without fin)** in 10, 20, and 30 inch lengths, with 40 inch versions available on selected models. DOE formats can be supplied on request for non-sterile service. A sanitary clamp closure allows rapid, tool-free cartridge change-outs while maintaining leak-tight integrity under sterile operating conditions.

Standard vent and drain ports **facilitate drainage and bubble-point testing access**, while optional DP/instrumentation ports support process monitoring. Compact design and low hold-up volume enhance operational efficiency. Models can be supplied **PED- or ASME Section VIII-certified when specified and documented**, with **3-A sanitary and ATEX versions available when specified and documented**.

Sterility-focused design, integrity of sealing, and alignment with industry-standard sanitary dimensions make the HF_X-SS-CF-SC-SAN[™] a dependable choice for sanitary single-cartridge filtration.

Purity in Design. Reliability in Every Cycle.

Applications - HFx-SS-CF-SC-SAN™ – Stainless Steel Sanitary Single Cartridge Housing

- **Pharmaceutical sterile filtration** (injectables, APIs, buffers, WFI)
- **Food & beverage** (dairy, beer, bottled water, syrups, flavourings)
- **Biotechnology & life sciences** (fermentation broths, cell culture media)
- **Cosmetics & personal care** (lotions, emulsions, fragrances)
- **Ultrapure water and electronics-grade fluids**, and **other demanding industrial applications**

OEM Compatibility & Replacement Cross-Reference

FiltraCore Asia's **HFx-SS-CF-SC-SAN™ Stainless Steel Sanitary Single-Cartridge housings** are engineered to align with industry-standard SOE cartridge formats (Code 7/8; 222/226 O-ring), tri-clamp sanitary connections, and common hygienic dimensional practices. This enables integration into existing process lines and allows the units to serve as functional replacements¹ for equivalent sanitary housings from major OEMs, provided dimensional and rating compatibility are verified for each installation. Compatible sanitary housing lines include:

- **Eaton® / BECO INTEGRA®** CART KA sanitary single-cartridge housings
- **Pall®** sanitary single-cartridge housings
- **Pentair®** stainless sanitary housings
- **3M™ LifeASSURE®** sanitary vessels (ZMS Series and equivalents)
- **Amazon Filters®** 70 Series sanitary-grade housings

Other compatible OEM systems upon request



Ordering Information - HFV-SS-CF-SC-SAN™ – Stainless Steel Sanitary Single Cartridge Housing

- **Model:** HFV-SS-CF-SC-SAN™ – Stainless Steel Sanitary Single Cartridge Housing
- **Cartridge Lengths:** 10", 20", 30" (40" available on selected models)
- **Cartridge End Styles:** SOE 222/Flat, SOE 226/Flat, SOE 226/Fin (Code 7/8). DOE available on request for non-sterile applications.
- **Material of Construction:** SS316L (standard), SS304 optional
- **Surface Finish:** Electropolished hygienic finish (typically 0.4–0.8 µm Ra); mechanical polish optional
- **Connections:** Sanitary Tri-Clamp ferrules (standard, 1.5"–3"). Optional DIN 11851 hygienic unions for food & beverage service, or DIN 11864 aseptic unions / ANSI / EN flanges for pharmaceutical and regulated applications
- **Seal Options:** EPDM, Buna-N, Viton® (FKM), PTFE, PTFE-encapsulated elastomers (FDA and USP Class VI-compliant options available)
- **Pressure Rating:** Up to 10 bar (145 psi) at 20 °C (higher ratings on request)
- **Temperature Rating:** –20 °C to 121 °C continuous; up to 150 °C during SIP cycles (seal-dependent)
- **Accessories:** Vent and drain ports, pressure gauge nozzles, mounting stand/base
- **Compliance / Code:** PED 2014/68/EU, ASME Section VIII Div. 1, ASME BPE and 3-A sanitary standards (optional). ATEX Directive 2014/34/EU-compliant versions available on request

Key Features - HFV-SS-CF-SC-SAN™ – Stainless Steel Sanitary Single Cartridge Housing

- **Electropolished hygienic finish** (typically 0.4–0.8 µm Ra) minimises product adhesion and supports effective cleaning
- **Sanitary Tri-Clamp closure and connections** enable rapid, tool-free cartridge change-outs to minimise contamination risk
- **Compatible with industry-standard** SOE cartridges (10–30"; 40" on selected models); DOE on request for non-sterile service
- **Designed for CIP and SIP;** process validation performed by the end user
- **Low hold-up volume and smooth internal surfaces** reduce product loss and cleaning time
- **Operator-friendly** with integrated vent/drain ports and optional differential pressure monitoring
- **Robust SS316L stainless-steel construction** ensures corrosion resistance and long service life
- **Engineered to align with industry-standard sanitary dimensions,** enabling functional replacement with major OEM housings when dimensional and rating compatibility are verified
- **PED- and ASME Section VIII-certified** models available when specified and documented; ATEX versions on request



¹ Compatibility refers to acceptance of industry-standard cartridge connection formats and sanitary tri-clamp fittings. Drop-in replacement equivalence should be verified against specific process requirements and regulatory standards.

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