

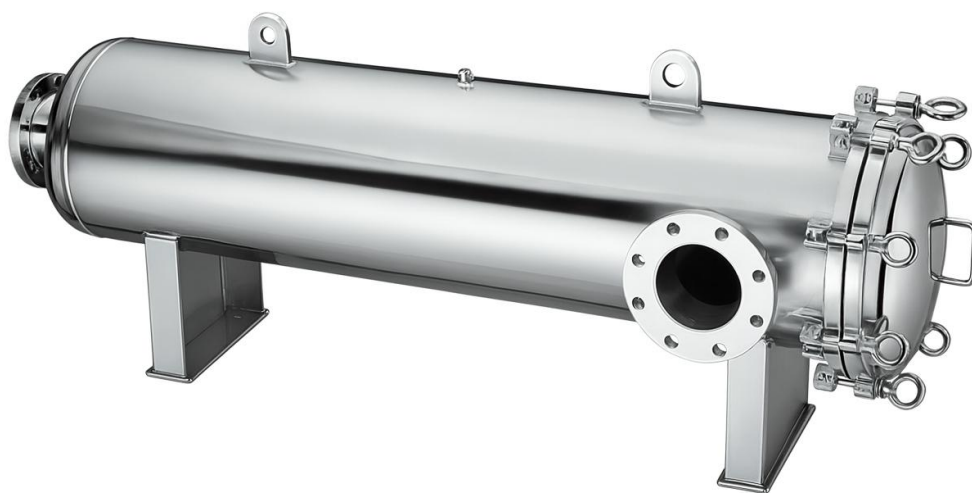


HFX™ Series – Housing Filtration Excellence Engineered for Performance

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

Filtracore Asia's **HFX-SS-CF-MC-HF™ Stainless Steel High Flow Multi-Cartridge Housings** are engineered for **large-scale, high-capacity liquid processing** where **throughput, reliability, and operator safety** are critical. Constructed from **304 or 316L stainless steel** (with **Duplex SS 2205/2507 optional** for aggressive services), these housings provide **robust strength, corrosion resistance, and extended service life** across **municipal, industrial, energy, and process-critical applications**.

Designed to accommodate **4, 7, 11, or 22 6" OD high-flow cartridges** in **20", 40", and 60" lengths**, the housings achieve **flow capacities up to 400 m³/h per vessel** (water @ 25 °C, $\Delta P \leq 0.5$ bar).



Perforated stainless steel support baskets and **precision-machined cartridge seats** ensure alignment, stability, and **positive sealing** to minimise bypass and maintain filtrate quality.

To maximise installation flexibility, housings are available in both **vertical and horizontal configurations**. **Vertical orientation** is space-efficient for skid integration, while **horizontal orientation** provides **safe, ergonomic handling of 40" and 60" cartridges**, reducing the need for ladders, catwalks, or lifting gear and **minimising downtime** during change-outs.

Swing-bolt or eye-bolt closures (with **davit-assisted lids** on larger or horizontal models) provide **safe, rapid access** for cartridge replacement, ensuring **operator safety under pressure**. Optional **sanitary finishes** ($\leq 0.6 \mu\text{m Ra}$ polish or $\leq 0.4 \mu\text{m Ra}$ electropolish) extend suitability to **food, beverage, and pharmaceutical installations**, while **PED- and ASME Section VIII-certified versions** ensure code compliance in regulated industries.

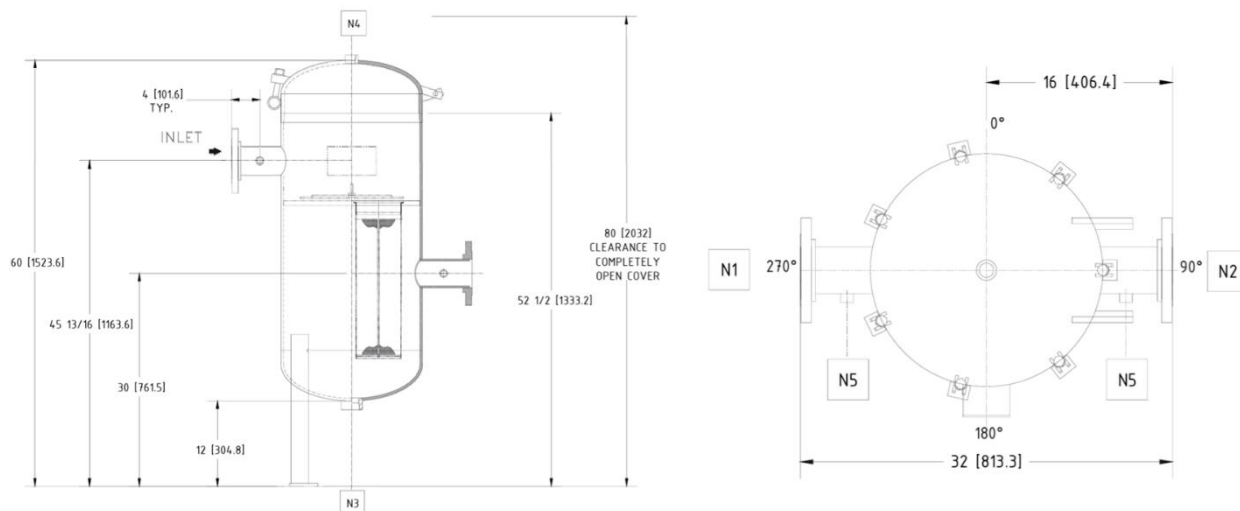
High Flow. Flexible Orientation. Proven in Scale.

Technical Specifications

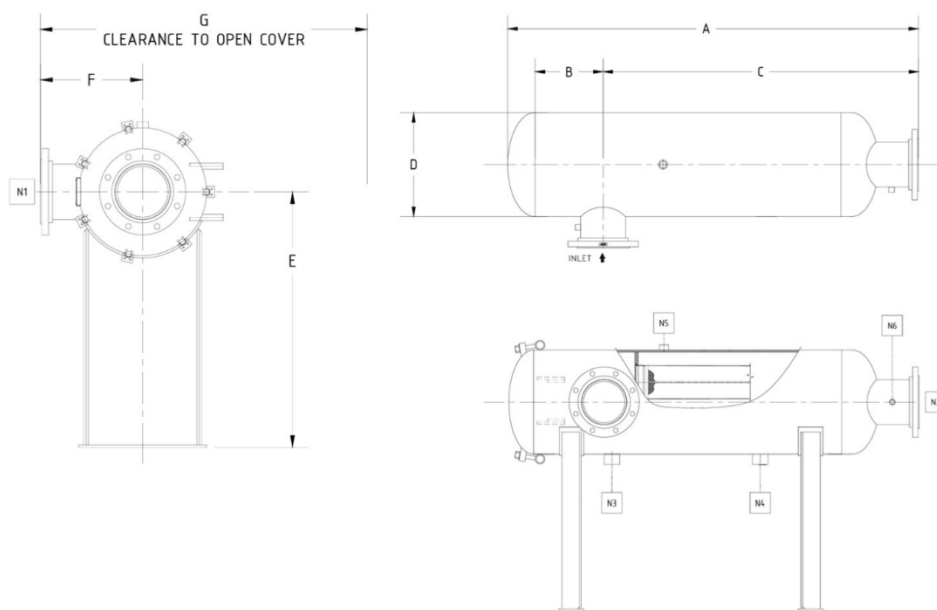
- **Model:** HFX-SS-CF-MC-HF™ – Stainless Steel High Flow Multi-Cartridge Housing
- **Cartridge Compatibility:** 6" OD high-flow cartridges; 20", 40", 60" lengths
- **Cartridge Count:** 4, 7, 11, 22 (custom counts on request)
- **Housing Material:** SS304 or SS316L; Duplex SS (2205/2507) optional
- **Cartridge Support:** Perforated stainless steel support baskets (standard) for alignment, stability, and positive sealing
- **Seal Options:** Buna-N, EPDM, Viton® (FKM), Silicone, PTFE, PTFE-encapsulated elastomers
- **Closure:** Swing-bolt or eye-bolt; davit-assisted lid standard on large and horizontal models
- **Inlet/Outlet Connections:** ANSI 150 / EN 1092-1 PN16 flanged – typically DN200 (4-round), DN250 (7-round), DN300 (11-round); size scales with cartridge count/length. Other standards (JIS) available on request
- **Vent & Drain Ports:** ½" BSPT/NPT vent (top); 1" BSPT/NPT drain (bottom); DP/gauge ports optional
- **Pressure Ratings:** 10 bar (145 psi) @ 20 °C standard; 16 bar (232 psi) high-performance on request
- **Temperature Range:** –20 °C to 120 °C standard; up to 150 °C with PTFE or silicone seals for SIP duty (seal-dependent; apply pressure/temperature derating)
- **Design / Code:** ASME Sec. VIII Div. 1 or PED 2014/68/EU (optional stamping); hydrostatic testing per applicable code requirements (ASME VIII UG-99 / PED)
- **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
- **Orientation:** Vertical (standard) or horizontal (optional, commonly selected for 40" and 60" cartridges)
- **Compliance:** Food-contact compliant variants available when specified and documented; USP Class VI elastomers available; ASME/PED conformity available when specified; ATEX 2014/34/EU compliant versions on request
- **OEM Compatibility:** Dimensionally compatible with Pall®, Pentair®, Eaton®, Parker®, and Amazon Filters® high-flow multi-cartridge housings when port size/type and centres, nozzle class, footprint/height, closure/hold-down, adapter geometry, and MAWP/temperature class are verified for the installation



HFX-SS-CF-MC-HF™ Stainless Steel High Flow Multi-Cartridge Housings (Vertical)



HFX-SS-CF-MCH-HF™ Stainless Steel High Flow Multi-Cartridge Housings (Horizontal)



Cartridge Quantity	Cartridge Length (in)	I/O Flange	Housing Weight (kg)	Dimensions – mm						
				A	B	C	D	E	F	G
4	40	DN200 (8")	295	2,003	332	1,538	508	1,016	407	1,346
4	60	DN200 (8")	363	2,511	332	2,046	508	1,016	407	1,346
7	40	DN250 (10")	400	2,235	419	1,670	610	1,016	457	1,600
7	60	DN250 (10")	472	2,743	419	2,178	610	1,016	457	1,600
11	40	DN300 (12")	572	2,388	419	1,772	813	1,016	610	2,134
11	60	DN300 (12")	672	2,895	419	2,280	813	1,016	610	2,134

Dimensions for reference only and approximate. Exact dimensions for installation purposes available on request.

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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