

SepraPor®

Filter Housings for Hollow Fiber Filter Cartridges



SepraPor® Stainless Steel Housings

SepraPor® stainless steel housings are designed to fit SepraPor® hollow fiber filter cartridges. The assembled housing and filter cartridge can be sterilized by autoclave or steam-in-place (SIP) for aseptic processing. The housings are compatible with tangential flow filtration (TFF) or alternating tangential flow filtration (ATF) operations.

Features and Benefits

- Robust electropolished 316 L stainless steel construction provides safe operation and easy cleaning
- Ergonomically designed handles facilitate transport and maneuverability
- A unique Cartridge Insertion Tool aids in the ergonomic installation of SepraPor® cartridge filters

Typical Applications

The SepraPor® filter housings are effective for use in cell concentration, high productivity harvest, or continuous cell culture perfusion applications. The housings are designed to fit SepraPor® hollow fiber filter cartridges and also will accommodate hollow fiber filter cartridges from other manufacturers. Contact Meissner for compatibility with hollow fiber cartridges from other suppliers.



Materials of Construction

Shell, End Caps:	316L Stainless Steel
Clamps:	304 Stainless Steel
Gaskets:	Silicone

Surface Finish

Wetted surfaces are polished to $\leq 25 \mu\text{in}$ Ra finish. Exterior surfaces are polished to a buffed-mirror finish. All surfaces are electropolished.

Cartridge Length

30 cm (12")

60 cm (24")

Cartridge Connection

SepraPor® stainless steel housings are designed for a secure fit with the appropriate size SepraPor® filter cartridge. The filter cartridge o-rings form a snug seal with the housing to maintain a barrier between the feed/retentate and permeate. Please refer to the SepraPor® GreenDoc for cartridge installation instructions.

The snug fit between the filter cartridge and the housing can cause ergonomic fatigue during installation. The Cartridge Insertion Tool is designed to facilitate ergonomic installation of the filter cartridge into the housing. Please refer to the Cartridge Insertion Tool Brochure for more information.

Sterilization

The housing can be inline steam sterilized, autoclaved or hot water sanitized.



The SepraPor® Cartridge Insertion Tool ensures easy, ergonomic installation of the filter cartridge into the housing.

Mounting

The housing can be mounted in any position and supported by suitably braced, rigid inline pipe connections. The housing can also be used with flexible tubing or hose connections, so long as it is properly braced and supported. Contact Meissner for housing support needs.

Service Ratings

Filter Diameter	Operating Characteristics
2.0" (5.1 cm)	235 psi from 32°F to 122°F (16.2 bar from 0°C to 50°C)
3.0" (7.6 cm)	200 psi from 32°F to 122°F (13.8 bar from 0°C to 50°C)
4.0" (10.2 cm)	100 psi from 32°F to 122°F (6.9 bar from 0°C to 50°C)
5.9" (15 cm)	100 psi from 32°F to 122°F (6.9 bar from 0°C to 50°C)

Ordering Information

Application Style	Assembly Configuration	Cartridge Diameter	Cartridge Length	Retentate Ports	Permeate Ports	Drain ports	Gasket
HXF	A	6	24	I	H	0	S
F = Sanitary housing assembly for XFM Cartridges; 316 L SS electropolished; ≤ 25 µin Ra finish ID, buffed-mirror finish OD	A = XFM Cartridge with seal to housing shell	2 = 2.0" (5.1 cm) 3 = 3.0" (7.6 cm) 4 = 4.0" (10.2 cm) 6 = 5.9" (15 cm)	12 = 12" (30 cm) 24 = 24" (60 cm)	H = 1.5" Sanitary flange I = 2.0" Sanitary flange	F = 1.5" Sanitary flange H = 2.0" Sanitary flange	0 = No ports	S = Silicone

Dimensions

Part Number	Filter Diameter	Fluid Path Length (Nominal)	Housing Length	Housing Body Diameter	Retentate Ports	Permeate Ports
HXFA-212-HH0S	2.0" (5.1 cm)	12" (30 cm)	14.7 ft² (37.3 m²)	2.5" (6.35 cm)	1.5" sanitary flange	1.5" sanitary flange
HXFA-224-HH0S	2.0" (5.1 cm)	24" (60 cm)	27.3 ft² (69.3 m²)	2.5" (6.35 cm)	1.5" sanitary flange	1.5" sanitary flange
HXFA-312-HH0S	3.0" (7.6 cm)	12" (30 cm)	14.7 ft² (37.3 m²)	4.0" (10.16 cm)	1.5" sanitary flange	1.5" sanitary flange
HXFA-324-HH0S	3.0" (7.6 cm)	24" (60 cm)	27.3 ft² (69.3 m²)	4.0" (10.16 cm)	1.5" sanitary flange	1.5" sanitary flange
HXFA-412-IH0S	4.0" (10.2 cm)	12" (30 cm)	14.7 ft² (37.3 m²)	4.90" (12.45 cm)	2" sanitary flange	1.5" sanitary flange
HXFA-424-IH0S	4.0" (10.2 cm)	24" (60 cm)	27.3 ft² (69.3 m²)	4.90" (12.45 cm)	2" sanitary flange	1.5" sanitary flange
HXFA-624-IH0S	5.9" (15 cm)	24" (60 cm)	27.3 ft² (69.3 m²)	6.53" (16.59 cm)	2" sanitary flange	1.5" sanitary flange