

SepraPor®

0.45 µm Hollow Fiber Cartridge Filter

Description

SepraPor® XFM is a tangential flow filtration cartridge containing microporous hollow fiber membranes. SepraPor® XFM cartridges are ideal for use in a variety of biopharmaceutical applications including cell concentration, high productivity harvest, and continuous cell culture perfusion. SepraPor® XFM cartridges are available in a range of sizes from bench through production scale for ease of scalability.

Materials of Construction

All components of the SepraPor® cartridge filter are animal component free (ACF). These materials are listed for food contact use in the Code of Federal Regulations (CFR), Title 21 or meet Commission Regulation (EU) No 10/2011, as below:

Membrane:	Polysulfone	CFR Title 21, 177.1655
Bundle netting:	Polypropylene	CFR Title 21, 177.1520
Outer sleeve:	Polysulfone	CFR Title 21, 177.1655
End O-rings:	Silicone	CFR Title 21, 177.1655
Fiber potting:	Epoxy	EU No 10/2011

Retention Rating 0.45 µm

Fiber Inner Diameter (ID) 1.0 mm

Fiber Outer Diameter (OD) 1.5 mm

Bubble Point Range 0.6 – 1.2 bar (9 – 17 psi) in 60/40% IPA/Water

Minimum Flux ≥ 7,500 LMH/bar (based on 1" diameter, 24" length, XFCM40C224-00C)

Part Number	Filter Diameter	Fluid Path Length (Nominal)	Filter Length	Effective Filtration Area
XFMM40C412-AAS	5.1 cm (2")	30 cm (12")	31.2 cm (12.3")	0.4 m ² (4.3 ft ²)
XFMM40C424-AAS	5.1 cm (2")	60 cm (24")	63.2 cm (24.9")	0.8 m ² (8.6 ft ²)
XFMM40C512-AAS	7.6 cm (3")	30 cm (12")	31.2 cm (12.3")	0.9 m ² (9.7 ft ²)
XFMM40C524-AAS	7.6 cm (3")	60 cm (24")	63.2 cm (24.9")	2.1 m ² (22.6 ft ²)
XFMM40C612-AAS	10.2 cm (4")	30 cm (12")	39.4 cm (15.5")	2.3 m ² (24.8 ft ²)
XFMM40C624-AAS	10.2 cm (4")	60 cm (24")	62.2 cm (24.5")	4.2 m ² (45.2 ft ²)
XFMM40C824-AAS	15 cm (5.9")	60 cm (24")	62.5 cm (24.6")	8.3 m ² (89.3 ft ²)

Operating Characteristics

Operating temperature range:	0 °C to 38 °C (32 °F to 100 °F)
Maximum feed pressure:	1.03 bar @ 25 °C (15 psi @ 75 °F)
Maximum transmembrane pressure:	0.69 bar @ 25 °C (10 psi @ 75 °F)

Sterilization

Steam sterilization: 121 °C (15 psi), minimum 30 minutes.

Apply a validated steam sterilization cycle that increases and decreases temperature gradually. Consult steam sterilization instructions for further guidance.

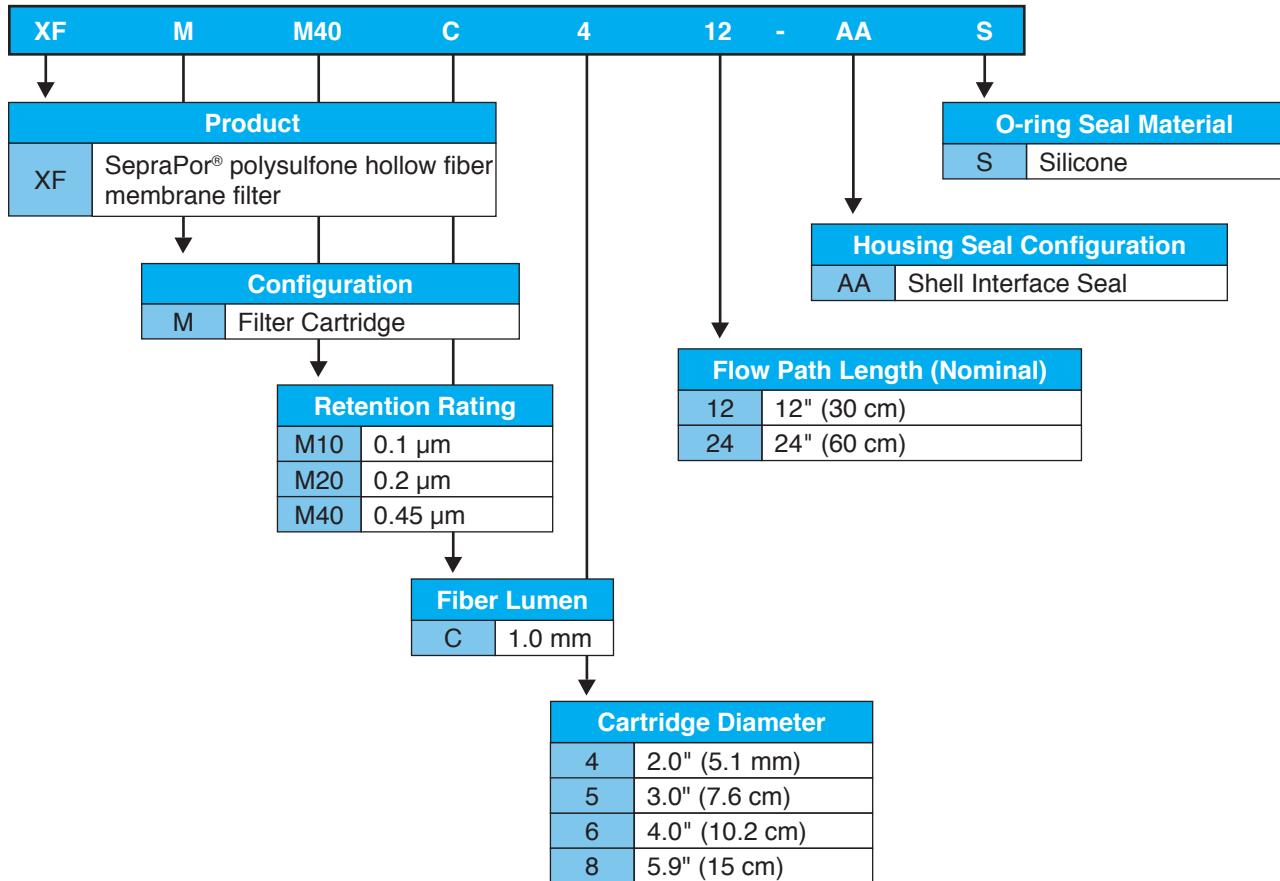
Biological Safety

SepraPor® filters meet the requirements as specified in USP <88> Biological Reactivity Test for Class VI Plastics.

Quality Assurance

SepraPor® XFM cartridge filters are supplied with a Certificate of Conformance. SepraPor® filters are manufactured and packaged in a facility that meets or exceeds FDA Good Manufacturing Practice Standards. To ensure product reliability, Meissner's Quality Assurance staff continually audits the manufacturing process for conformance to its Quality Management System. Each SepraPor® XFM cartridge filter is integrity tested and is clearly marked with filter type, lot number and serial number.

Ordering Guide



Additional information about this filter product is available in the SepraPor® Green Docs document at www.meissner.com/green-docs.

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