

SepraPor®

0.45 µm Hollow Fiber Capsule Filter, 60 cm (24") Length

Description

SepraPor® XFC is a tangential flow filtration capsule containing microporous hollow fiber membranes, and is available as a standalone filter or part of a process-ready, gamma-sterilized assembly. SepraPor® XFC capsules are ideal for use in a variety of biopharmaceutical applications including cell concentration, high productivity harvest, and continuous cell culture perfusion. SepraPor® XFC capsules are available in a range of sizes from bench through production scale with customizable port configurations for ease of installation, operation, and scalability.

Materials of Construction

All components of the SepraPor® capsule 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
Permeate ports:	Polysulfone	CFR Title 21, 177.1655
Retentate ports:	Polysulfone	CFR Title 21, 177.1655
End Caps:	Polysulfone	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

Fluid Path Length (Nominal) 60 cm (24")

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	Effective Filtration Area	Retentate Ports	Permeate Ports
XFCM40C024-771	0.95 cm (3/8")	0.023 m ² (0.25 ft ²)	3/4" sanitary flange	1/4" hose barb
XFCM40C124-772	1.9 cm (3/4")	0.085 m ² (0.91 ft ²)	3/4" sanitary flange	3/8" hose barb
XFCM40C224-00C	2.5 cm (1")	0.15 m ² (1.6 ft ²)	1" sanitary flange	1/2" hose barb
XFCM40C324-00C	3.2 cm (1 1/4")	0.23 m ² (2.5 ft ²)	1" sanitary flange	1/2" hose barb
XFCM40C424-00C	5.1 cm (2")	0.84 m ² (9.0 ft ²)	1" sanitary flange	1/2" hose barb
XFCM40C524-FF0	7.6 cm (3")	2.1 m ² (23 ft ²)	1 1/2" sanitary flange	1" sanitary flange
XFCM40C724-HHF	10.8 cm (4 1/4")	4.4 m ² (47 ft ²)	2" sanitary flange	1 1/2" sanitary flange

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

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

Apply a validated autoclave sterilization cycle that increases and decreases temperature gradually. Consult autoclave sterilization instructions for further guidance. SepraPor® XFC filters are also designed for gamma sterilization and can be included as part of a One-Touch® single-use assembly.

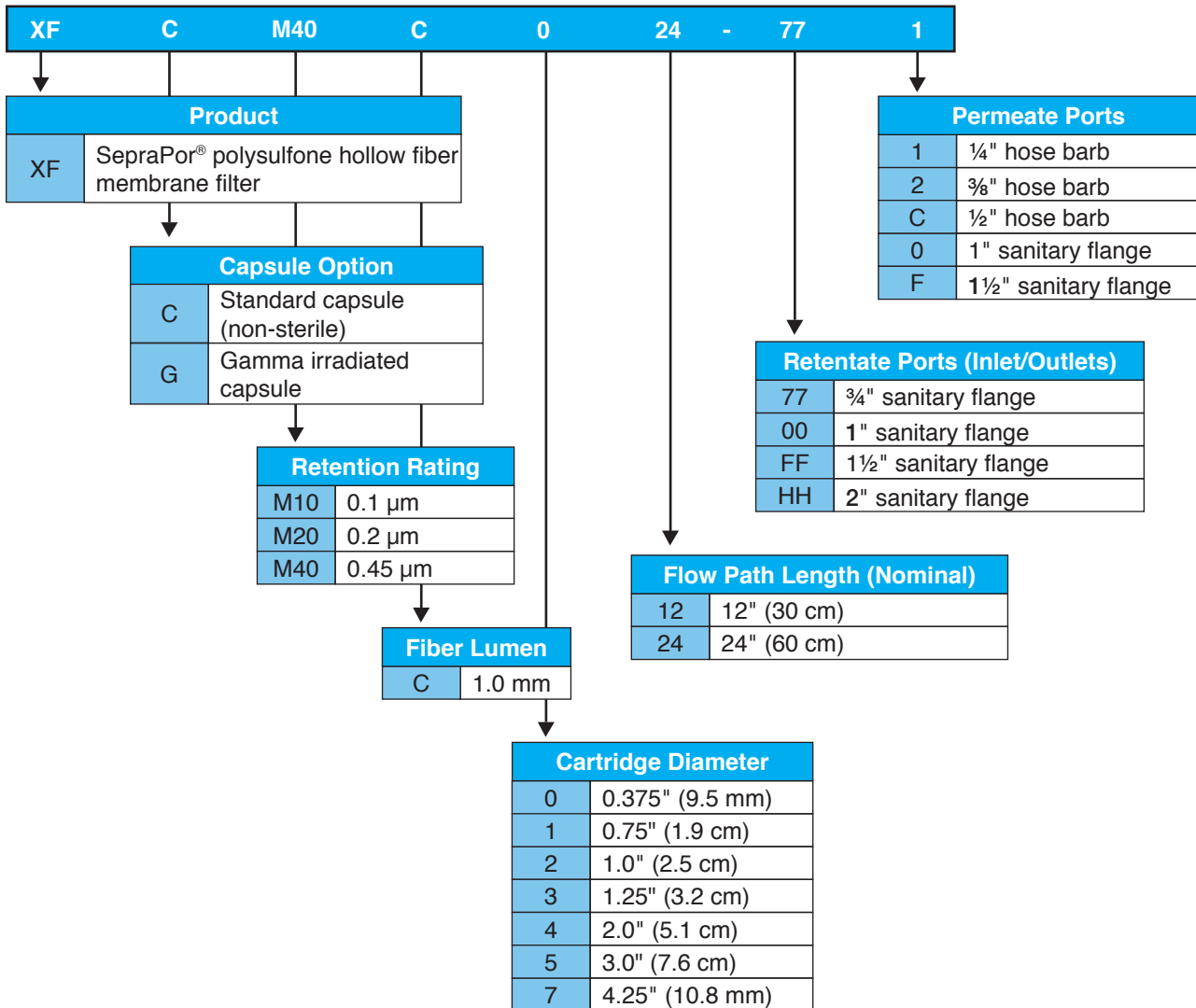
Biological Safety

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

Quality Assurance

SepraPor® XFC capsule 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® XFC capsule 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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