



Point-of-Use High Purity Water Capsule Filters

Designed to provide absolute filtration at point of dispense on laboratory ultrapure water systems or after standard service deionization systems. Disposable design makes filtration easy and convenient.

Standard Features and Benefits

- Available in 0.1 μm or 0.2 μm pore size ratings
- Two convenient sizes — 500 cm^2 and 1000 cm^2 effective filtration area
- Hydrophilic polyethersulfone bacterial retentive membrane--based on Pseudomonas diminuta challenge (HIMA)
- Integrity tested and validated, making them ideal for pharmaceutical and microelectronics applications
- Low extractable welded housing and materials—no adhesives or glues
- Non-pyrogenic per USP and LAL testing

CARTRIDGE SPECIFICATIONS

	500	1000
Dimensions		
Filtration Area	500 cm^2	1000 cm^2
Diameter (OD)	2.7" (6.8 cm)	2.7" (6.8 cm)
Length/in (cm)	4.8" (12.2)	6.7" (16.9)
Materials		
Cartridge	Polypropylene caps, core and cage	Polypropylene caps, core and cage
Media	Pleated polyethersulfone	Pleated polyethersulfone
Operating Parameters		
Maximum Temperature	140° F (60° C) @ 30 psid (2.1 bar)	140° F (60° C) @ 30 psid (2.1 bar)
Max. Oper. Pressure	60 psid (4.1 bar) @ 20° C	60 psid (4.1 bar) @ 20° C
Max. Momentary Pressure	100 psid (7.0 bar) @ 20° C	100 psid (7.0 bar) @ 20° C
Filtration Rating	100% Absolute	100% Absolute
Toxicity	Non-toxic by USP Class VI Biological test for plastics	Non-toxic by USP Class VI Biological test for plastics
Validation	HIMA Bacterial challenge test methods (10 ⁷ organisms/cm ²)	HIMA Bacterial challenge test methods (10 ⁷ organisms/cm ²)
Recommended Water Flow Rates – gpm (Lpm)		
0.1 μm	0.04 (0.16)/1 psid	0.1 (0.38)/1 psid
0.2 μm	0.1 (0.38)/1 psid	0.3 (0.38)/1 psid
Integrity Test		
Pore Size (Minimum Water Bubble Point)		
0.1 μm	≥ 90 psig (≥ 6.2 bar)	≥ 90 psig (≥ 6.2 bar)
0.2 μm	≥ 45 psig (≥ 3.1 bar)	≥ 45 psig (≥ 3.1 bar)
Sanitizing Agents		
	500	1000
	Hydrogen peroxide or autoclaved for 20 minutes at 121° C	Hydrogen peroxide or autoclaved for 20 minutes at 121° C

ORDERING INFORMATION

Catalog Number

FCCF	Capsule filter
X	Effective filter area P = 1000 cm^2 pharmaceutical grade H = 500 cm^2 pharmaceutical grade E = 500 cm^2 electronics grade
X	Inlet fitting: 1 = 1/4" NPTM, 2 = 1/2" NPTM
X	Outlet fitting: 1 = 1/4" hose barb, 2 = 1/4" NPTM 3 = 1/2" NPTM, 4 = 1/2" hose barb w/filling bell
XX	Micron rating: S1 = 0.1 μm , S2 = 0.2 μm