

FG-SpiraCore™ U100 Ultrafiltration Membrane Element Series

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The PCI Membranes® ultrafiltration (UF) membrane is made of polyethersulfone with a polyester backing material. It is designed for low-pressure operation, is chlorine-tolerant, and can be used for potable water production, RO pretreatment, and wastewater pretreatment.



Characteristics

Membrane	U100
Material	Polyethersulfone
MWCO	100,000 Da
Outer wrap	FRP

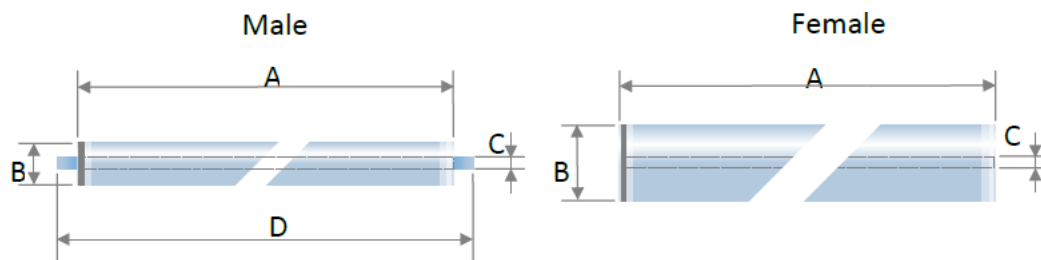
Limits

Max. Operating Pressure	10 bar (145 psi)
Max. Pressure Drop	0.68 bar (10 psi) for individual element
Max. Operating Temperature	50 °C (122 °F)
Cleaning Temperature	50 °C (122 °F)
Cleaning pH Range	2 – 11
Max. feed turbidity⁽²⁾	1 NTU
Max. feed SDI	5

Area ft² (m²)

Spacer	U2540	U4040	U8040
31 mil	24 (2.2)	85 (7.9)	351 (32.6)
46 mil	19 (1.8)	68 (6.3)	269 (25)
65 mil	/	/	226 (21)
80 mil	/	/	188 (17.5)

Updated 28 September 2026



Dimensions

Size	A ^[1] [mm (inch)]	øB ^[2] [mm (inch)]	øC ^[3] [mm (inch)]	D [mm (inch)]
U2540-100-014-XX-S00 ^[4]	965 (38)	62 (2.4)	19 (0.748)	1016 (40)
U4040-100-014-XX-S00 ^[4]	965 (38)	99.4 (3.9)	19 (0.748)	1016 (40)
U4040-100-014-XX-S01 ^[4]	1016 (40)	99.4 (3.9)	16 (0.629)	/
U8040-100-014-XX-S01 ^[4]	1016 (40)	200.5 (7.9)	28.8 (1.138)	/

[1] Tolerance: -2~0mm.

[2] Tolerance: -2~0mm.

[3] 2540/4040-M tolerance: 0~+0.1 mm. 4040-F tolerance: ±0.1mm. 8040 tolerance: -0.2~0 mm.

[4] XX: 31 mil, 46 mil, 65 mil or 80 mil

Notes:

(1) Test condition: Pure water, 77 °F (25 °C).

(2) Feed water with turbidity more than 0.2NTU generally results in cleanings frequently.

(3) For the purpose of improvement, specifications may be updated periodically

(4) Permeate pressure should not exceed feed pressure or concentrate pressure by more than 5psi (0.34bar) during online, offline, and transition.