

FG-SpiraCore™ I-RO-600

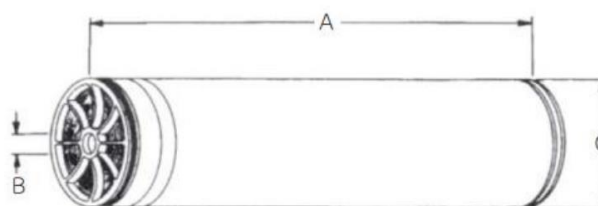
Membrane material: PA
 Typical applications: Wastewater treatment/reuse
 Outer wrap: FRP

Membrane Element Specifications

Water flux [LMH]	Rejection NaCl
35	≥ 99.0 %

Test conditions: 2000ppm NaCl, 225psi, 25°C, pH 6.5, recovery 15%
 The flux of a single element can vary ±25%

Membrane Element Dimensions



Size	Nominal dimensions [in (mm)]			Feed spacer [mil]	Membrane area [ft² (m²)]
	A	B	C		
2540	40 (1016)	0.75 (19.05)	2.4 (61)	46	20 (1.85)
4040	40 (1016)	0.625 (15.9)	3.9 (99)	46	65 (6)
8040	40 (1016)	1.125 (28.6)	7.9 (200.7)	46	295 (27.4)

Recommended Operating Conditions

Typical operating pressure [psi (bar)]	Maximum operating pressure [psi (bar)]	Maximum pressure drop [psi (bar)]	Maximum temperature	pH range	Chlorine tolerance	Maximum feed turbidity	Maximum feed SDI (15min)
150-350 (10.3-24.1)	600 (41.3)	< 15 (1) per element < 60 (4.1) psi per vessel	50°C	Operation: 3-10 Cleaning: 1.8-11	0 ppm	1 NTU	5

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Ordering Information

R	2540 4040 8040	099 = 99.0%	060 = 600 psi	-46 = 46 mil	(nothing) = standard version
Type	Size	NaCl rejection	Maximum pressure	Feed spacer	Special execution code

Important Information

- FG-SpiraCore™ membrane elements are to be stored in a dry environment with an ambient temperature of 5-35°C, and protected by direct sunlight, strong wind and dirt;
- Once membrane elements are wetted, keep them always wet in order to prevent any decline in production capacity;
- The maximum allowable dynamic and static backpressure on the permeate side should be zero. Meaning that permeate side pressure should never exceed feed/concentrate side pressure, while in operation or while plant is stopped;
- PCI Membranes® reserve the rights to limit warranty in full if the operating parameters applied to the membrane elements are not strictly followed.

Installation Information

- Before installing new FG-SpiraCore™ membrane elements, the inlet/outlet piping as well as the pressure vessels are to be flushed in order to ensure that any contaminant is removed;
- New membrane elements are to be cleaned or thoroughly flushed (2 hours flush at 25°C) prior to the first use to remove the preservative.

Operating Guidelines

- Avoid any abrupt pressure or crossflow variation on the FG-SpiraCore™ membrane elements during start-up, operation, shutdown, cleaning or any other sequence in order to prevent any possible damage.

Preservation Guidelines

- When stopping the membrane filtration unit for up to 48 hours, FG-SpiraCore™ membrane elements are to be flushed with RO permeate grade water for 30-60 min every 24 hours in order to prevent any biological growth on the membrane surface.
- When stopping the membrane filtration unit for more than 48 hours, membrane elements are to be cleaned to be preserved with 1.5% wt. sodium bisulfite in order to prevent any biological growth on the membrane surface. Every 3 months, the pH is to be checked and, when it is lower than 3.0, the preservation solution needs to be replaced.

Installation Accessories

- Elements are delivered with a brine seal and a permeate interconnector (sizes 4040 & 8040 only; no interconnector delivered for size 2540).

Disclaimer: Filtration data presented is representative of performance observed in controlled laboratory testing. It is not given as a warranty, specification or statement of fitness for use. Specific performance can vary widely depending on contaminant type, fluid properties, flow rates and environmental conditions. It is recommended that users conduct thorough qualification testing to ensure the product functions as required.

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