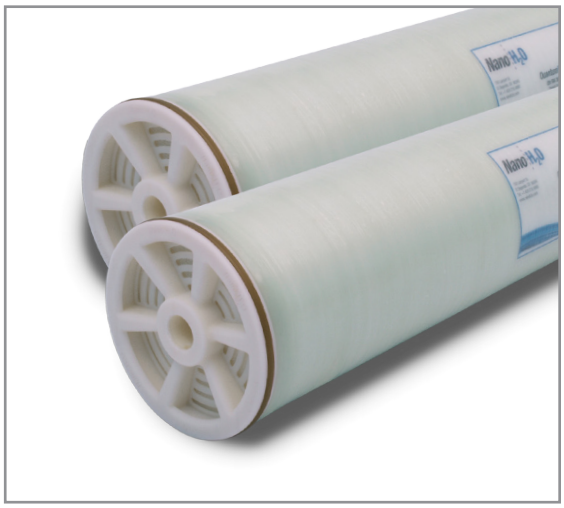
*Quantum*Flux (Qfx)

Seawater Reverse Osmosis (RO) Element

Qfx SW 400 SR

Overview



NanoH$_2$O's thin-film nanocomposite (TFN) ***Quantum*Flux** membranes lower the cost of desalination by improving energy efficiency and productivity. Qfx membranes feature benign nanomaterials incorporated into the thin-film polyamide layer of a composite membrane. This innovative patent-pending technology significantly increases membrane permeability and improves salt rejection.

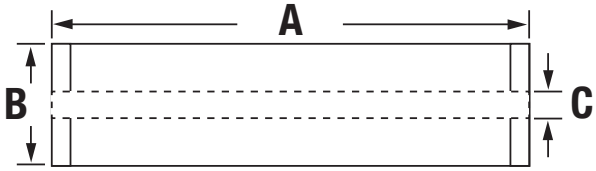
- Industry-standard flux with highest salt rejection
- Standard 8-inch spiral wound element design
- Easy to retrofit existing RO plants
- NSF Standard 61 Certified
- NEW Anti-telescoping device with raised lip and bi-directional seal for easy element loading and removal

Product Specifications

Configuration: 8-inch spiral wound
Membrane Polymer: Thin-film nanocomposite (TFN) polyamide

Product Number	Permeate flow rate m³/d (gpd)	Minimum NaCl Rejection %	Stabilized NaCl Rejection %	Active Membrane Area m² (ft²)	Feed Spacer mil	Stabilized Boron Rejection %
Qfx SW 400 SR	24.6 (6,500)	99.75	99.85	37 (400)	28	93

Note: The above values are normalized to the following conditions: 32,000 ppm NaCl, 5 ppm boron, 5.5 MPa (800 psi), 25°C (77°F), pH 8, 8% recovery. Permeate flows for individual elements may vary +/- 15%.



Part Number	Length A	Element O.D. B	Perm Tube I.D. C	Weight kg (lbs.)
Qfx SW 400 SR	1,016 mm (40 in.)	200 mm (7.9 in.)	28.6 mm (1.125 in.)	16.4 (36)

Operating Specifications

For more information and operating guidelines, visit www.nanoh2o.com

Max. Applied Pressure:	8.27 MPa (1200 psig)
Max. Chlorine Concentration:	< 0.1 ppm
Max. Operating Temperature:	45°C (113°F)
pH Range, Continuous (Cleaning):	2-11 (2-13)
Max. Feedwater Turbidity:	1.0 NTU
Max. Feedwater SDI (15 mins):	5.0
Max. Feed Flow:	17.0 m³/h (75 GPM)
Min. Ratio of Concentrate to Permeate Flow for any Element:	5:1
Max. Pressure Drop (ΔP) for Each Element:	0.7 bar (10 psi)

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