



High Technology Membrane Products

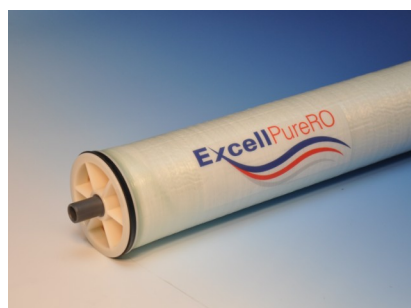
ExcellPureRO™ RO Elements

High Silica Rejection Membrane Elements

SnowPure's **ExcellPureRO™** membranes are uniquely designed for high rejection of silica. Achieving low silica is important for many applications, including providing feedwater for electrodeionization (EDI) systems. We have matched these SXR™ membrane elements to specific Electropure™ EDI modules.

Many potable waters from surface sources contain naturally low levels of silica (4-8 ppm), but groundwater sources in the Middle East and volcanic areas like Japan and Mexico contain 20-100 ppm. This causes problems when purifying water. Hence, membranes with high rejection of soluble silica (SiO₂) are valuable for producing ultrapure water.

Standard and low energy (LE) reverse osmosis (RO) membranes do not reject silica well, often only 98%. Special membranes have been developed to reject silica over 99.2%.



Electropure™ EDI Model	XL-060 series	XL-100 series	XL-200 series	XL series	XL & EXL series
ExcellPureRO™ Model	SXR-E060HR	SXR-E100HR	SXR-E200HR	SXR-4040HR	SXR-8040HR
Flow, Typical, LPH (gpm) @10 bar (150 psi)	75 LPH (0.33 gpm)	120 LPH (0.53 gpm)	230 LPH (1.0 gpm)	300 LPH (1.3 gpm)	1.2 m ³ /h (5.0 gpm)
SiO ₂ % Rejection*, Typical	99.2%	99.2%	99.2%	99.2%	99.2%
TDS % Rejection**, Typical (Min)	99.7% (99.2%)	99.7% (99.2%)	99.7% (99.2%)	99.7% (99.2%)	99.7% (99.2%)
Active Area	22 SF (2.0 sqm)	35 SF (3.2 sqm)	67 SF (6 sqm)	87 SF (8 sqm)	400 SF (37 sqm)
Element Size	2.5x40 in	2.5x40 in	4x40 in	4x40 in	8x40 in
Operating Pressure, typ, bar (psi)	10 bar (150 psi)	10 bar	10 bar	10 bar	10 bar
Operating Pressure, max, bar (psi)	40 bar (600 psi)	40 bar	40 bar	40 bar	40 bar
* 500 ppm NaCl, 150 psi, 25C, 15% Recovery, with 20 mg/l SiO ₂ ** 500 ppm NaCl, 150 psi, 25C, 15% Recovery					



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Membrane Parameters	ExcellPureRO™ SXR Membranes
Operating Flux, LMH (GFD) at 10 bar (150 psi)	38 (22)
Maximum Operating Pressure, bar (psi)	40 (600)
Typical Operating Pressure, bar (psi)	10 (150)
Maximum Temperature, °C (°F)	45 (113)
Maximum Feed Water SDI ₁₅	<5
Optimum Operating pH	6.8-8.0
Operating pH range	2-11
Cleaning pH range (limits)	1-13
Chlorine Level Recommended	<0.1 mg/l



SnowPure's Separation Technologies

- Electropure™ EDI
- Zapwater™ Laboratory EDI
- Electropure™ ED—Electrodialysis
- ExcellMembranes™ (IX, RO, NF, UF)
- SPUV™ High Efficiency UV
- GTM-Gas Transfer Membranes
- DC Power Supplies for EDI
- DemandPure™ EDI Systems

Doing business with SnowPure

- Electropure™ EDI technology was born in 1977, before Ionpure
- SnowPure is privately held
- SnowPure is your partner, not a competitor
- High quality technology training and OEM support
- Focus on Customer Service, rapid response.

Benefits of ExcellMembranes™

- USA Membrane Technology
- Manufactured in USA
- Highly controlled process
- 34 years of broad membrane experience
- Reliable, robust, proprietary membranes
- ISO-9001 compliant quality system

Technology Training and OEM System Design Support

- SnowPure believes strongly in training—this helps ensure field success with our technologies.
- SnowPure assists new OEM customers through their system design phase, both during the OEM training and the design process. Support includes reviews of P&I diagrams and feedwater requirements.
- Combined with ongoing Technical Service, we help ensure success.

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