



SNOWPURE

Water Technologies

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	ZAP-10-M	XL-060	XL-100	XL-200	XL	XL & EXL
	ZAP-20-M	series	series	series	series	series
ExcellPureRO™ Model	SXR-1812HR	SXR-E060HR	SXR-E100HR	SXR-E200HR	SXR-4040HR	SXR-8040HR
Flow, Typical, LPH (gpm) @10 bar (150 psi)	16 LPH (100 gpd) 1-2 required	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	99.1%	99.2%	99.2%	99.2%	99.2%	99.2%
TDS % Rejection**, Typical (Min)	99.4%	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	1.8x12 in	2.5x40 in	2.5x40 in	4x40 in	4x40 in	8x40 in
Operating Pressure, typ, bar (psi)	6 bar (85 psi)	10 bar (150 psi)	10 bar	10 bar	10 bar	10 bar
Operating Pressure, max, bar (psi)	7 (100 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						

Membrane Parameters	ExcellPureRO™
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



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SnowPure's Separation Technologies

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

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 Excell™ Membranes

- 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.



www.snowpure.com