



# SNOWPURE

## Water Technologies

### Electropure™ EDI XL-R Modules

#### XL-R Industrial EDI Modules

ELECTROPURE™ XL-R modules are industrial EDI modules for producing high-resistivity Ultrapure water. They are configured to easily retrofit existing systems with added Electropure™ technology benefits, so the old troublesome Dow Omexell® and GE E-Cell® CONCENTRATE RECIRCULATION IS ELIMINATED.

ELECTROPURE™ XL-R modules have the compact Electropure profile and have Electropure™ EDI technology inside. This includes Electropure's patented Excellion™ membranes, our unique non-scaling electrode system, and our efficient thin-cell technology.

And with Electropure™ EDI thin-concentrate technology, there is no need for the troublesome Omexell® and E-Cell® recirculation system, so it can be eliminated from the system. With the mass-transfer built into Electropure™ EDI thin-concentrate technology, you don't need either salt injection or feed-and-bleed systems. You also don't need the IONPURE® "all-filled" design.



	<b>XL-100-R</b>	<b>XL-200-R</b>	<b>XL-300-R</b>	<b>XL-400-R</b>	<b>XL-500-R</b>
<b>Design Flow</b>	100 l/h (0.5 gpm)	200 l/h (1 gpm)	500 l/h (2.5 gpm)	1.0 m3/h (5 gpm)	1.7 m3/h (7.5 gpm)
<b>Module Flow Range</b>	80-150 l/h (0.3-0.7 gpm)	100-300 l/h (0.5-1.5 gpm)	300-1000 l/h (1.5-4.5 gpm)	0.6-1.5 m3/h (2.5-7 gpm)	1.3-2.3 m3/h (6-10 gpm)
<b>Recovery*</b>	Up to 90%	Up to 95%	Up to 97%	Up to 99%	Up to 99%
<b>Recommended Voltage</b>	48 VDC	100 VDC	150 VDC	200 VDC	300 VDC
<b>Normal Pressure Drop**</b>	2-3 bar (30-45 psi)	2-3 bar (30-45 psi)	2-3 bar (30-45 psi)	2-3 bar (30-45 psi)	2-3 bar (30-45 psi)
<b>Maximum Pressure</b>	5 bar (75 psi)	5 bar (75 psi)	5 bar (75 psi)	5 bar (75 psi)	5 bar (75 psi)

\* with electrolyte to drain, and concentrate recovery

\*\* 25C, at design flow

EDI Module Parameters	Recommended for	Maximum			
Feedwater Conductivity Equivalent	<9 $\mu$ S/cm	<33 $\mu$ S/cm			
pH	7.0 to 7.5	5 to 9.5			
Total Chlorine (as Cl <sub>2</sub> ) and Ozone (O <sub>3</sub> )	ND	ND			
Iron (Fe)	ND	<.01 ppm			
Manganese (Mn)	ND	<.01 ppm			
Sulfide (S <sup>-</sup> )	ND	<.01 ppm			
Total Hardness (as CaCO <sub>3</sub> )	<0.5 ppm	<1 ppm			
Total Silica (as SiO <sub>2</sub> )	<0.2 ppm	<0.5 ppm			
Total Organics (TOC as C)	ND	<0.5 ppm			
Temperature	15 to 30C (60-85F)	5 to 35C (40-95F)			
Concentrate Flow Direction	Upward	Upward			
Feed Flow Direction	Upward	Upward			
Dimensions (Width x Height x Depth)	22x56xD cm (8.5x22xD in)				
Depth:	<b>XL-100-R</b>	<b>XL-200-R</b>	<b>XL-300-R</b>	<b>XL-400-R</b>	<b>XL-500-R</b>

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## Electropure™ EDI Technology

- No concentrate recirculation or brine injection
- Thin-Cell efficient technology
- Thin-Concentrate non-scaling technology
- Unique non-scaling electrode system
- Patented Excellion™ membranes

## 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 Electropure™ EDI training and OEM support

## Benefits of Using EDI

- Continuous Process—no upsets
- Operating cost is minimized
- No hazardous waste, no associated costs and risks
- No regeneration acid or caustic
- Flexible—easy to expand a modular EDI system
- Reliable—no recirculation system components to fail

## EDI Technology Training and OEM System Design Support

- SnowPure believes strongly in training—this helps ensure field success with Electropure™ EDI systems.
- SnowPure assists new OEM customers through their system design phase.
- Our customers also have access to our Best Practices P&ID's to aid in their EDI system optimization.
- Combined with ongoing Technical Service, we help ensure success.



[www.snowpure.com](http://www.snowpure.com)