



# SNOWPURE

## Water Technologies

### Electropure™ EDI EXL-650

#### New: Higher Quality EDI at Higher Feed Conductivity

##### EXL-650 High TDS EDI Modules

ELECTROPURE™ **EXL-650** EDI modules are designed to be the highest rejection EDI modules on the market. EXL is configured to easily build ultrapure water systems with the well-known benefits of Electropure™ EDI technology. The EXL-650 achieves high quality even with 1-Pass RO, saving you money.

ELECTROPURE™ EXL-650 modules have next-generation innovative technology inside. The 650 series is designed to handle higher FCE, Feed Conductivity Equivalent. This means that the EXL-650 will perform very well at higher TDS and higher CO<sub>2</sub> and SiO<sub>2</sub> loading. As always EXL includes Electropure's patented Excellion™ membranes, "never-leak" permanent O-ring seals, unique non-scaling electrode system, efficient thin-cell technology, and connections using +GF+ unions.

Electropure™ EDI thin-concentrate technology effectively eliminates scaling. And with Electropure™ EDI technology's excellent mass-transfer design, you don't need salt injection, you don't need feed-and-bleed systems, and you don't need the IONPURE® "all-filled" design.



Parameter	SI Units	US Units
1-Pass RO + GTM Design Flow	4.0 m <sup>3</sup> /h	18 gpm
2-Pass RO Design Flow	5.0 m <sup>3</sup> /h	22 gpm
Maximum Recommended Flow	6.0 m <sup>3</sup> /h	26 gpm
Recovery*	Up to 99%	Up to 99%
Normal Pressure Drop (25°C)	3 bar at 5.0 m <sup>3</sup> /h	45 psi at 22 gpm
Maximum Pressure	7 bar	100 psi

SnowPure recommends Liqui-Cel® GTM for CO2 removal \* with electrode flow to drain, and concentrate flow recovery

EDI Module Parameters	Recommended for Optimum Performance	Maximum
Feedwater Conductivity Equivalent Including CO <sub>2</sub> (FCE, see calculation)	<9 uS/cm	<43 uS/cm
pH	7.0 to 7.5	5.0 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	10 to 35C (50-95F)	5 to 45C (40-110F)
Voltage	350VDC	450VDC
Concentrate Flow Direction	Upward	Upward
Feed Flow Direction	Upward	Upward
Dimensions (EXL-650) (WidthxHeightxDepth)	314x606x315 mm (12.4x24x12.4 in)	
Operating Weight (EXL-650)	83 kg (183 lb)	
Shipping Weight (EXL-650)	88 kg (194 lb)	

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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)