# 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 $CO_2$ and $SiO_2$ 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 $m^3/h$ | 18 gpm |
| 2–Pass RO Design Flow | 5.0 $m^3/h$ | 22 gpm |
| Maximum Recommended Flow | 6.0 $m^3/h$ | 26 gpm |
| Recovery* | Up to 99% | Up to 99% |
| Normal Pressure Drop (25°C) | 3 bar at 5.0 $m^3/h$ | 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

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| EDI Module Parameters | Recommended for Optimum Performance | Maximum |
|---|---|---|
| Feedwater Conductivity Equivalent Including $CO_2$ (FCE, see calculation) | <9 uS/cm | <43 uS/cm |
| pH | 7.0 to 7.5 | 5.0 to 9.5 |
| Total Chlorine (as $Cl_2$) and Ozone ($O_3$) | ND | ND |
| Iron (Fe) | ND | <.01 ppm |
| Manganese (Mn) | ND | <.01 ppm |
| Sulfide (S-) | ND | <.01 ppm |
| Total Hardness (as $CaCO_3$) | <0.5 ppm | <1 ppm |
| Total Silica (as $SiO_2$) | <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) | |

## 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.


**SnowPure Water Technologies**
130 Calle Iglesia
San Clemente, CA 92672, USA
Tel: +1.949.240.2188
info@snowpure.com
www.snowpure.com

**SnowPure International, Ltd.**
Hong Kong
info@snowpureintl.com

**China Sales Office**
**Electropure Environmental Technology (Shanghai) Co. Ltd.**
伊乐科环保科技(上海)有限公司
Shanghai, China
13818807576@163.com
www.snowpure.com.cn

**Middle East Sales Office**
Amman, Jordan
info@middle-east.snowpure.com

**India (Authorized Distributor)**
**Evergreen Technologies Pvt. Ltd.**
Mumbai, India
info@evergreenindia.com

**Japan (Authorized Distributor)**
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美浜株式会社
Tokyo, Japan
info-mhg3@mihama.com
www.amp-ionex.com

**Korea (Authorized Distributor)**
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주식회사 이노메디텍
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**Nordic (Authorized Distributor)**
**PWS Pure Water Scandinavia AB**
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lars.wiklund@purewater.se

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info@tes-water.de

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sales@marsiwater.com

**Ukraine/Baltics (Authorized Distributor)**
**Nerex PE**
Kyiv, Ukraine
com@nerex.ua