**Electropure™ EDI XL-R Modules**

**XL-R Industrial EDI Modules**

**ELECTROPUERE™** 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.

**ELECTROPUERE™** 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.

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

* with electrolyte to drain, and concentrate recovery

** 25C, at design flow

---

**SnowPure Water Technologies • 130 Calle Iglesia, San Clemente, CA 92672 USA • +1.949.240.2188**
### EDI Module Parameters

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Recommended for Optimum Performance</th>
<th>Maximum</th>
</tr>
</thead>
<tbody>
<tr>
<td>Feedwater Conductivity Equivalent</td>
<td>&lt;9 μS/cm</td>
<td>&lt;33 μS/cm</td>
</tr>
<tr>
<td>pH</td>
<td>7.0 to 7.5</td>
<td>5 to 9.5</td>
</tr>
<tr>
<td>Total Chlorine (as Cl(_2)) and Ozone (O(_3))</td>
<td>ND</td>
<td>ND</td>
</tr>
<tr>
<td>Iron (Fe)</td>
<td>ND</td>
<td>&lt;.01 ppm</td>
</tr>
<tr>
<td>Manganese (Mn)</td>
<td>ND</td>
<td>&lt;.01 ppm</td>
</tr>
<tr>
<td>Sulfide (S())</td>
<td>ND</td>
<td>&lt;.01 ppm</td>
</tr>
<tr>
<td>Total Hardness (as CaCO(_3))</td>
<td>&lt;0.5 ppm</td>
<td>&lt;1 ppm</td>
</tr>
<tr>
<td>Total Silica (as SiO(_2))</td>
<td>&lt;0.2 ppm</td>
<td>&lt;0.5 ppm</td>
</tr>
<tr>
<td>Total Organics (TOC as C)</td>
<td>ND</td>
<td>&lt;0.5 ppm</td>
</tr>
<tr>
<td>Temperature</td>
<td>15 to 30C (60-85F)</td>
<td>5 to 35C (40-95F)</td>
</tr>
<tr>
<td>Concentrate Flow Direction</td>
<td>Upward</td>
<td>Upward</td>
</tr>
<tr>
<td>Feed Flow Direction</td>
<td>Upward</td>
<td>Upward</td>
</tr>
<tr>
<td>Dimensions (Width x Height x Depth)</td>
<td>22x56xD cm</td>
<td>(8.5x22xD in)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Depth</th>
<th>XL-100-R</th>
<th>XL-200-R</th>
<th>XL-300-R</th>
<th>XL-400-R</th>
<th>XL-500-R</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>17 cm (6.5 in)</td>
<td>19 cm (7.5 in)</td>
<td>26 cm (10 in)</td>
<td>29 cm (11.5 in)</td>
<td>37 cm (14.5 in)</td>
</tr>
</tbody>
</table>

---

**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

**Benefits of Using EDI**
- Continuous process-no upsets
- Operating cost 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

**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

**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.
Shanghai, China
13811007067@163.com
www.snowpure.com.cn

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

India [Authorised Distributor]
Evergreen Technologies Pvt. Ltd.
Mumbai, India
info@evergreenindia.com

Japan [Authorised Distributor]
AMF Ionex / Mihama Group
Tokyo, Japan
info@amf-ionex.com
www.amf-ionex.com

Korea [Authorised Distributor]
Innotech, Inc.
Seoul, South Korea
info@innotech.com
www.innotech.com

Nordic [Authorised Distributor]
PWS Pure Water Scandinavia AB
Falun, Sweden
jens.wiklund@purewater.se

Germany [Authorised Distributor]
TES Water Treatment GmbH
Hockenheim, Germany
info@tes-water.de

Austria, Switzerland, Czech, Slovakia
[Authorised Distributor]
ROC Components AG
Rainach, Switzerland
info@roc.ch

South Africa [Authorised Distributor]
Marsi Water (Pty) Ltd
Cape Town, South Africa
sales@marsiwater.com

Ukraine/Baltics [Authorised Distributor]
Nerex PE
Kiyv, Ukraine
com@nerex.ua

www.snowpure.com