An RO>EDI water purification unit represents a Quantum Leap over other water purification technologies.

**RO-EDI** – Reverse Osmosis membrane technology integrated with Electrodeionization in a single device that will provide ultra high purity water directly from soft city water.

**RO-EDI Performance**

An RO-EDI unit is a high performance membrane/resin system that is simpler to operate than any existing water purification technology. High product/waste water ratios (~75%) conserve water and reduce pre-treatment costs. The system employs state-of-the-art high rejection TFC Reverse Osmosis membranes that send the RO product water directly to Electrodeionization (EDI). The output of an RO>EDI system is ultrapure water between 16,000,000 to 18,000,000 ohms/cm³.

With an RO>EDI unit, there are no regeneration chemicals, labor or down time. The system is both safer and more environmentally friendly than any competing technology. Note: An RO>EDI system must be fed soft, chlorine free water, which can be provided by an inexpensive Cal water pretreatment skid.

**ADVANTAGES**

- A Cal Water RO-EDI is a water purification “BLACK BOX” that requires only electricity and soft water to produce better than distilled quality water. No chemicals. No regeneration steps. No labor.
- Continuous operation 24/7 with no halts for deionizer regeneration.
- Membranes and electricity replace chemicals and labor.
- RO-EDI units are mechanically simple when compared to any other water purification technology.

**Model:**

RO-EDI-27-MG

For More Information Please Call 1(800)CAL-WATER - (800) 225-9283
**Mega-Feature:** Unitizing RO with EDI (RO-EDI) enables a single device to produce high purity water of 16 to 18 Megohms without the chemicals required by conventional ion-exchange technology. An RO-EDI unit uses membranes and electricity to replace hazardous chemicals and the wastewater neutralization headaches associated with chemically regenerated deionizers.

**Standard Features:**
- Electropure XLx00 Cells w/5 year Components.
- Magna Power 400 VDC Rectifier.
- TFC Reverse Osmosis Membranes – Low pressure – High Rejection – High Recovery
- Grunfos SS pressure pumps
- Liquid filled SS pressure gauges
- Thornton 770 multi-channel water quality monitor for feed, intermediate, and final water quality measurements
- All necessary control valves, pressure gauges and flow monitoring rotameters
- Powder coated carbon steel frame
- Epoxy control panel

**Options:**
- Soft Water/Filtration Pretreatment Skid
- Stainless Steel Frame and panel
- PLC Control, Programmed for Intuitive Operation w/Ethernet connection
- Touch Screen Controls
- Visual, back-lit Electrolyte monitoring panel
- Thornton - Stainless steel turbine flow, temperature and pressure sensors.
- Plumbing, feed, product and sensor connection are available in fusion welded polypro or PVDF.
- TriClover style Sanitary Connections
- Large economical DI cartridges (Exchange or Throwaway) for 18.3 megohm applications
- Windows based Computer Automation

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>RO-EDI - 1 - MG</td>
<td>1,440</td>
<td>50%</td>
<td>2 1 1</td>
<td>3/4&quot;</td>
<td>1 1</td>
<td>48&quot; 18&quot; 24&quot;</td>
<td>180</td>
</tr>
<tr>
<td>RO-EDI - 2 - MG</td>
<td>2,880</td>
<td>67%</td>
<td>3 2 1</td>
<td>3/4&quot;</td>
<td>2 1</td>
<td>48&quot; 18&quot; 24&quot;</td>
<td>210</td>
</tr>
<tr>
<td>RO-EDI - 4 - MG</td>
<td>5,760</td>
<td>67%</td>
<td>6 4 2</td>
<td>3/4&quot;</td>
<td>4 1</td>
<td>48&quot; 18&quot; 24&quot;</td>
<td>270</td>
</tr>
<tr>
<td>RO-EDI - 6 - MG</td>
<td>8,640</td>
<td>67%</td>
<td>9 6 3</td>
<td>3/4&quot;</td>
<td>6 1</td>
<td>48&quot; 18&quot; 24&quot;</td>
<td>330</td>
</tr>
<tr>
<td>RO-EDI - 8 - MG</td>
<td>12,000</td>
<td>67%</td>
<td>13 8 4</td>
<td>1&quot;</td>
<td>8 1</td>
<td>48&quot; 18&quot; 24&quot;</td>
<td>400</td>
</tr>
<tr>
<td>RO-EDI - 17 - MG</td>
<td>24,000</td>
<td>67%</td>
<td>25 17 8</td>
<td>1 1/2&quot;</td>
<td>16 2</td>
<td>60&quot; 36&quot; 24&quot;</td>
<td>650</td>
</tr>
<tr>
<td>RO-EDI - 27 - MG</td>
<td>38,400</td>
<td>75%</td>
<td>36 27 9</td>
<td>1 1/2&quot;</td>
<td>5 3</td>
<td>60&quot; 44&quot; 24&quot;</td>
<td>950</td>
</tr>
<tr>
<td>RO-EDI - 37 - MG</td>
<td>52,800</td>
<td>75%</td>
<td>49 37 12</td>
<td>2&quot;</td>
<td>8 4</td>
<td>72&quot; 36&quot; 24&quot;</td>
<td>1,250</td>
</tr>
</tbody>
</table>

**RO-EDI Feed Water Requirements:**
- Water Hardness: 0.1 ppm Max.
- Iron (Fe+++): 0.05 ppm Max.
- Free Chlorine/Chloramine: 0.01 ppm Max.
- Minimum Inlet Pressure: 35 psi
- Maximum inlet pressure: 80 psi

Minimum Inlet Temperature: 45°F
Maximum inlet temperature: 90°F

**NOTE:** Silica and carbonate content in the feed water dictate the quality of the water produced. 18.3 Megohm quality cartridges optional.

**Limited Warranty:** Cal Water guarantees labor and material for 1 year from the date of installation. In case of defect in equipment, labor, material or service, Cal-Water’s sole responsibility is for the replacement or repair of the defect and cannot be held liable for losses of any kind. (Please see Terms and Conditions of sale.)

**Cal-Water** has been selling, installing and servicing water purification equipment since **1946**

**Cal Water,** 1961 Petra Lane, Placentia, CA 92870
(800) CAL-WATER (800) 225-9283
FAX: (714) 792-0794
www.cal-water.com

Orange County (714) 835-7878
Los Angeles County (323) 663-8335
San Diego County (858) 457-8411