PROTECT YOUR FACILITY’S POTABLE WATER SYSTEM

Copper Silver Ionization Solutions for Legionella Protection.
COPPER SILVER IONIZATION SOLUTIONS

COPPER SILVER IONIZATION SOLUTIONS have been proven in over 7,300 installations worldwide to prevent the growth and spread of Legionella bacteria in facility potable water systems.

The automated computer control system disperses industry proven copper and silver ion concentrations into the water distribution system to saturate the biofilm where Legionella bacteria grows and helps prevent potential exposure risk for facility occupants.

**CSIDefender® Quick Facts**

**CSIDefender® technologies are the only solutions that offer:**
- Powerful POE controllers for up to 64% cost savings and smaller footprint
- Scalable solutions with up to 120 amps output capacity for any facility potable water loads
- True independent Multi-Cell Ionization activation, monitoring & control

**Safe & Reliable for Facilities of Any Size, CSIDefender® POE solution technologies:**
- Always work when properly sized & calibrated
- Always work when regular preventative maintenance is conducted
- Always work when depleted Ion Chamber Cells are replaced

**Fully Automated Controllers**

- Quality schedule 416 stainless steel and mild steel material that exceeds all water plumbing codes and fire building codes
- Multi-Cell laminar flow to reduce sedimentation and extend the lifespan of cells by up to 19%
- Unique internal electrode protection to prevent premature physical water erosion

**Ion Chamber Cells**

- Fully automated to anticipate and react to various water conditions
- Industry first internal laminar flow to reduce sedimentation and extend the lifespan of cells by up to 19%
Getting Started
How to Properly Size the Best CSI Solution

CSI Defender® offers 46 different controllers that can provide a solution that perfectly fits any facility requirements.

How can you determine which CSI Solution is right for you?

**STEP 1**

POE Analyze Parameters & Water Load

1. How many POE Zones does your facility have?
2. Do you require a solution for a variable in-line or constant (tank-to-tank) potable water flow?
3. What is the POE pipe size for each zone?
4. What is the expected POE flow rate and daily water load for each zone?

---

<table>
<thead>
<tr>
<th>Number of POE Zones</th>
<th>Variable In-Line or Tank to Tank</th>
<th>Max Flow Rate &amp; Water Load</th>
<th>Pipe Size</th>
<th>CSI Defender® Model(s) Required</th>
</tr>
</thead>
</table>

---
COPPER SILVER IONIZATION SOLUTIONS

Contact your local representative to receive a complete project specific submittal package. Save time and money by leveraging our industry experts and get custom, open, and unbranded performance specifications that you can easily integrate into your master specs.

Choose your CSIDefender® Point of Entry (POE) Application Model

<table>
<thead>
<tr>
<th>MODEL NO.</th>
<th>OUTPUT (AMPS)</th>
<th>DC DRIVES</th>
<th>CELLS INSTALLED</th>
<th>CONFIG.</th>
<th>GPM</th>
<th>IDE/CPS</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSI-E3AI</td>
<td>30</td>
<td>2</td>
<td>1</td>
<td>CSI</td>
<td>&gt; 180</td>
<td>&lt; 30K</td>
</tr>
<tr>
<td>CSI-E3FM</td>
<td>30</td>
<td>2</td>
<td>1</td>
<td>INL</td>
<td>&gt; 180</td>
<td>&lt; 30K</td>
</tr>
<tr>
<td>CSI-E4FS</td>
<td>30</td>
<td>3</td>
<td>2</td>
<td>T2T</td>
<td>&gt; 180</td>
<td>&lt; 30K</td>
</tr>
<tr>
<td>CSI-E4AI</td>
<td>40</td>
<td>4</td>
<td></td>
<td>CSI</td>
<td>&gt; 240</td>
<td>&lt; 40K</td>
</tr>
<tr>
<td>CSI-E4FM</td>
<td>40</td>
<td>4</td>
<td></td>
<td>INL</td>
<td>&lt; 240</td>
<td>&lt; 40K</td>
</tr>
<tr>
<td>CSI-E4FS</td>
<td>40</td>
<td>4</td>
<td></td>
<td>T2T</td>
<td>&lt; 240</td>
<td>&lt; 40K</td>
</tr>
<tr>
<td>CSI-E5AI</td>
<td>60</td>
<td>6</td>
<td>6</td>
<td>CSI</td>
<td>&gt; 320</td>
<td>&lt; 60K</td>
</tr>
<tr>
<td>CSI-E5FM</td>
<td>60</td>
<td>6</td>
<td>6</td>
<td>INL</td>
<td>&gt; 320</td>
<td>&lt; 60K</td>
</tr>
<tr>
<td>CSI-E5FS</td>
<td>60</td>
<td>6</td>
<td>6</td>
<td>T2T</td>
<td>&gt; 320</td>
<td>&lt; 60K</td>
</tr>
<tr>
<td>CSI-E6AI</td>
<td>80</td>
<td>8</td>
<td>8</td>
<td>CSI</td>
<td>&gt; 480</td>
<td>&lt; 90K</td>
</tr>
<tr>
<td>CSI-E6FM</td>
<td>80</td>
<td>8</td>
<td>8</td>
<td>INL</td>
<td>&lt; 480</td>
<td>&lt; 90K</td>
</tr>
<tr>
<td>CSI-E6FS</td>
<td>80</td>
<td>8</td>
<td>8</td>
<td>T2T</td>
<td>&lt; 480</td>
<td>&lt; 90K</td>
</tr>
<tr>
<td>CSI-E7AI</td>
<td>120</td>
<td>12</td>
<td>12</td>
<td>CSI</td>
<td>&gt; 640</td>
<td>&lt; 120K</td>
</tr>
<tr>
<td>CSI-E7FM</td>
<td>150</td>
<td>15</td>
<td>16</td>
<td>CSI</td>
<td>&gt; 960</td>
<td>&lt; 150K</td>
</tr>
<tr>
<td>CSI-E7FS</td>
<td>200</td>
<td>20</td>
<td>20</td>
<td>CSI</td>
<td>&gt; 120</td>
<td>&lt; 200K</td>
</tr>
<tr>
<td>CSI-E10AI</td>
<td>320</td>
<td>32</td>
<td>32</td>
<td>CSI</td>
<td>&gt; 1,200</td>
<td>&lt; 320K</td>
</tr>
</tbody>
</table>

INL = In-Line variable water flow, T2T = Tank to Tank fixed water flow, CSI = In-Line variable or Tank to Tank water flow. Additional Models Available. CSIDefender® Model numbers and specs are subject to change without notice. Please consult your local vendor for details.

Render CSI Point of Entry (POE) Performance Specs

Contact your local representative to receive a complete project specific submittal package. Save time and money by leveraging our industry experts and get custom, open, and unbranded performance specifications that you can easily integrate into your master specs.
Choose the best copper silver ionization solution that’s been proven to prevent the growth and spread of Legionella bacteria in hotels, resorts, hospitals, commercial buildings, military facilities, and cruise ships around the world.

Choose CSI Defender®.

Choose CSI Defender®.
LEGIONELLA PROTECTION & COMPLIANCE FOR DOMESTIC POTABLE WATER NETWORKS

TIME TO UPGRADE YOUR FACILITY PLUMBING

E-MAIL
support@csidefender.com

PHONE
1-888-988-4667

© 2019 – All Rights Reserved
CSIDefender® is a registered USA and Canadian trademark.
Manufactured in CANADA / Country of Origin: CANADA
Find a certified CSI vendor online at: https://csidefender.com