



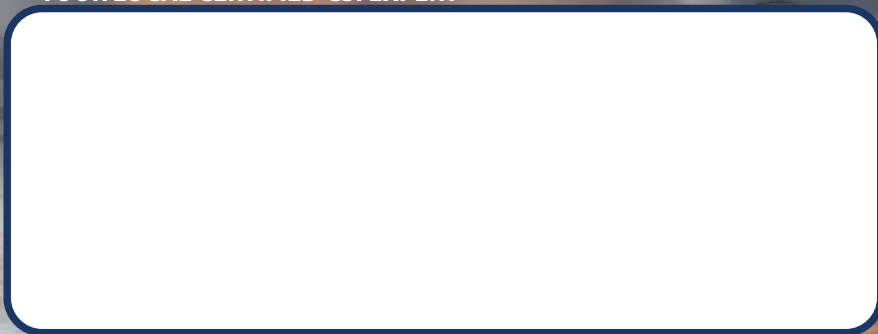
Protect Your Facility With Advanced Legionella Water Treatment

Copper-Silver Ionization Designed for
a Safer, Smarter Clean Water Choice

POWERFUL - PROVEN - RELIABLE

CONTACT US: 1-888-977-4667
solutions@csiphoenix.com

YOUR LOCAL CERTIFIED CSI EXPERT



SOLUTION GUIDE

DOMESTIC HOT WATER

DHW

APPLICATIONS

2025-2026

WITH **CSIPHOENIX** COPPER-SILVER IONIZATION™

Boosting Trust with a Health-First Approach



CSIPhoenix® demonstrates your dedication to public health, boosting user trust. Beyond Legionella compliance, it builds a safety-first reputation.

Maximize Efficiency and Reduce Costs



Up to 60% lower startup costs, CSIPhoenix® enhances water management efficiency, lowering Legionella related maintenance and costs, freeing you to tackle wider facility challenges.

Reduce Legal and Financial Risks



CSIPhoenix® dramatically cuts Legionella outbreak risks, lowering your exposure to legal and financial fallout, securing your reputation and stability.

WHY



CSIPHOENIX™

COPPER-SILVER IONIZATION™



Advanced Automation Engineering

Cutting-edge industrial automation water treatment solutions engineered for facility potable water networks of any size and configuration.



Universal BMS Compatibility

CSIPhoenix® is designed for both new and existing facilities, offering easy plumbing and electrical setup. It is suitable for potable water networks of all sizes.



Durable Chamber Cell Construction

CSIPhoenix® ion chamber cells are NSF/ANSI61 on all wetted components, use schedule 40 (316) stainless steel, and comply with international plumbing and fire building codes.



Advanced Connectivity Access

CSIPhoenix® features mobile and colour touchscreen multi-user, password protected access with BACNET, WiFi, and Ethernet connectivity.



Easy to Install & Maintain

CSIPhoenix® offers 55 different industrial automation controller models to suit all potable water conditions and daily water loads, ranging from 10A to a powerful 160A.



Limited Warranty

CSIPhoenix® offers a 10-year limited warranty on controller parts and labour, ensuring reliability and customer satisfaction.

GETTING STARTED

DOMESTIC HOT WATER

DHW APPLICATIONS

STEP 1 FACILITY EVALUATION

01



DHW Zones

How many independent domestic hot water zones does the facility have?

Mechanical Rooms

When multiple DHW Zones are in the facility, how many are in a common mechanical room?



02

03



Beds / Dwellings

Approximate number of healthcare beds, hotel rooms, dwellings, or occupants associated to each of the DHW Zones?

DHWR Size

What is the pipe size of the facility's Domestic Hot Water Return (DHWR) for each of the hot water zones?



04

05



Solution Identification

Now that you've gathered the necessary application data, please move on to 'Step 2' of this brochure to accurately select your CSIPhoenix® system.

CSIPHOENIX
with IonSafe™ & DualArray™

STEP 2 CHOOSING A SOLUTION

Domestic Hot Water (DHW) | Application Options

CSPHOENIX
with IonSafe™ & DualArray™

MODEL NO.	OUTPUT	DC DRIVES	ACTIVE CELLS	ZONES	BEDS	(OR) DHW/GPD	(OR) DHWR
CSI-PHX.E1	10A	1	1	1	≤ 145	≤ 22.5K	≤ 1.25"
CSI-PHX.E2	20A	2	2	1	≤ 290	≤ 45K	≤ 2.50"
* CSI-PHX.E2M	20A	2	2	2	≤ 145 X 2	≤ 22.5K X 2	≤ 1.25" X 2
CSI-PHX.E3	30A	3	3	1	≤ 435	≤ 67.5K	≤ 3.50"
* CSI-PHX.E3M2	30A	3	2 1	2	≤ 290 & ≤ 145	≤ 45K / ≤ 22.5K	≤ 2.25" ≤ 1.25"
* CSI-PHX.E3M3	30A	3	3 X 1 CELL	3	≤ 145 X 3	≤ 22.5K X 3	≤ 1.25" X 3
CSI-PHX.E4	40A	4	4	1	≤ 580	≤ 90K	≤ 5.00"
* CSI-PHX.E4M22	40A	4	2 2	2	≤ 290 X 2	≤ 45K X 2	≤ 2.25" X 2
* CSI-PHX.E4M31	40A	4	3 1	2	≤ 435 & ≤ 145	≤ 67.2K / ≤ 22.5K	≤ 3.50" ≤ 1.25"
* CSI-PHX.E4M4	40A	4	4 X 1 CELL	4	≤ 145 X 4	≤ 22.5K X 4	≤ 1.25" X 4
CSI-PHX.E6	60A	6	6	1	≤ 870	≤ 135K	≤ 7.00"
* CSI-PHX.E6M2-3	60A	6	2 X 3 CELLS	2	≤ 145 & ≤ 720	≤ 22.5K ≤ 112K	≤ 1.25" ≤ 6.00"
* CSI-PHX.E6M3-2	60A	6	3 X 2 CELLS	3	≤ 290 X 3	≤ 45K X 3	≤ 2.50" X 3
* CSI-PHX.E6M42	60A	6	4 2	2	≤ 435 X 2	≤ 67.5K X 2	≤ 3.50" X 2
* CSI-PHX.E6M5	60A	6	4 X 1 2	5	145 X 5 & ≤ 290	≤ 90K / 45K	≤ 4.50" ≤ 2.50"
* CSI-PHX.E6M6	60A	6	6 X 1	6	≤ 145 X 6	≤ 22.5K X 6	≤ 1.25" X 6

* CSI model engineered for "Multi DHW Zone" applications
Point of Entry (POE) water treatment solutions please use 2024 POE Application Guide.

STEP 3 DOCUMENTATION REQUEST

Save time by leveraging our industry experts and receive custom CSI performance specifications that you can easily integrate into your master specs.

SOLUTION SUPPORT DOCUMENTS:
Contact us to receive your complete engineering package.

- CSI Performance Specs
- Project Specific Submittal Documents
- Shop Drawings
- Solution Schedule
- Project Cost Estimate

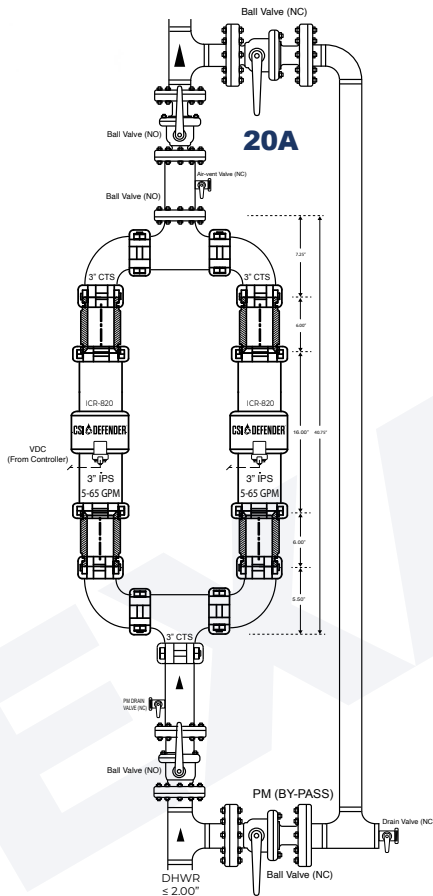


CSPHOENIX[®]

with **IonSafe[™]** & **DualArray[™]**

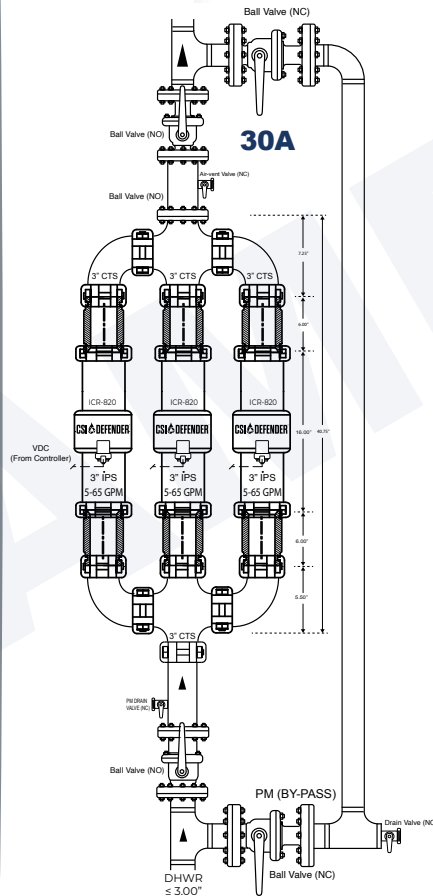
DOMESTIC HOT WATER INSTALLATION EXAMPLES

CSIPhoenix[®] Model No. CSI-PHX.E2
 20A Controller | 2 Active Ionization Chamber Cells
 Engineered for: ≤ 45,000 GPD (DHW)
 or ≤ 290 Healthcare Beds / DHWR ≤ 2.00"

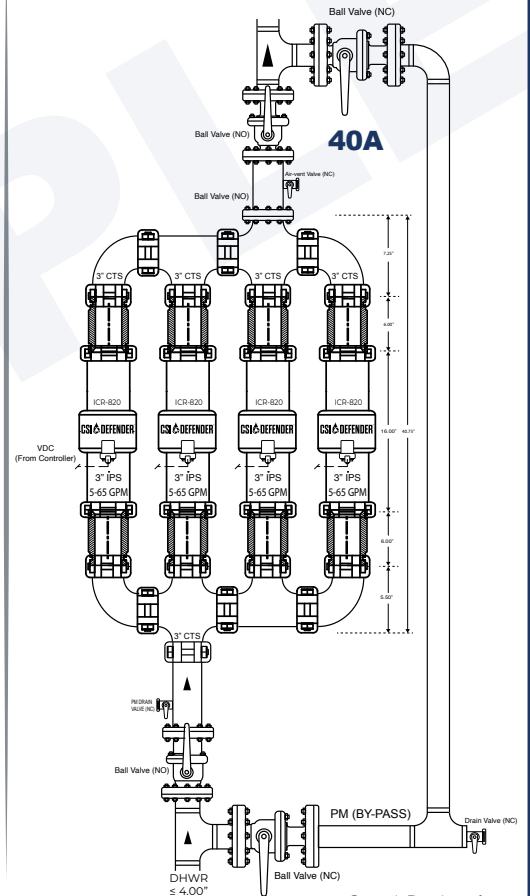


Optional sensors, flow-meters or flow-switches not shown
 ENGINEERED AND MANUFACTURED IN CANADA SINCE 2002

CSIPhoenix[®] Model No. CSI-PHX.E3
 30A Controller | 3 Active Ionization Chamber Cells
 Engineered for: ≤ 67,500 GPD (DHW)
 or ≤ 435 Healthcare Beds / DHWR ≤ 3.00"



CSIPhoenix[®] Model No. CSI-PHX.E4
 40A Controller | 4 Active Ionization Chamber Cells
 Engineered for: ≤ 90,000 GPD (DHW)
 or ≤ 580 Healthcare Beds / DHWR ≤ 4.00"



Consult Brochure for
 CSIPhoenix[®] Model Options

Installation Example

Multi-DHW-Zones
 New Healthcare Facility with 3x DHW Zones

CSIPhoenix[®] Model: CSI-PHX.E4M211
 Controller Output: 40A (20A+10A+10A)

4 Active Ionization Chamber Cells

"Next-Gen" Legionella Compliance & Prevention Solutions

CONDOR[™] > AI-Driven Water Management

- Predictive Intelligence: 24/7 machine learning and adaptive ionization processes for peak performance. Engineered for Point of Entry (POE) or Domestic Hot Water (DHW) applications.
- Real-Time Diagnostics: Continuous water composition and usage monitoring to reveal trends before issues arise and deliver optimized ionization processes.
- Proactive Optimization: Instant and predictive ionization adjustments to maintain ideal copper-silver levels, ensuring safety, compliance, and alloy conservation at every step.

IonSafe[™] > Continuous Ionization Safety System

- Automatic Backup Protection: ensures uninterrupted operation.
- Seamless Performance: Maintains consistent total amperage levels for optimal ion saturation.
- Minimized Downtime: Prevents disruptions with intelligent, automated fault compensation.

DualArray[™] > Precision Ionization Control

- Independent Electrode Operation: Top and bottom arrays operate separately for precise ion output.
- Optimized Ion Distribution: Ensures consistent performance in high water hardness or low TDS.
- Extended Electrode Life: Enhances efficiency while reducing wear and maintenance costs.

Industrial-Grade Automation and Power

- Built for Reliability: Uses industrial components with automated fault detection.
- Powerful Variable Drives: Delivers up to 180 VDC with independent activation for each cell.
- High-Capacity Efficiency: Controller models of 10A to 320A, reducing costs and smaller relative footprint to legacy systems.

Flexible, Multi-Platform Connectivity

- Seamless BMS Integration: Supports BACnet, TCP/IP, and customizable communication protocols.
- Secure Remote Monitoring: Real-time control and oversight from any device.
- Simplified Reporting: Standard relay contacts provide easy status integration with facility systems.

Call Today! 1-888-988-4667 or [csiphoenix.com](https://www.csiphoenix.com)

CSPHOENIX

with CONDOR™, IonSafe™ & DualArray™

 **CSPHOENIX**
COPPER SILVER IONIZATION
DualArray™

LEGIONELLA COMPLIANCE AND IMPROVED FACILITY STANDARDS

YEARS
20+
ProCare Water Treatment Inc.
Est. 2002

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