



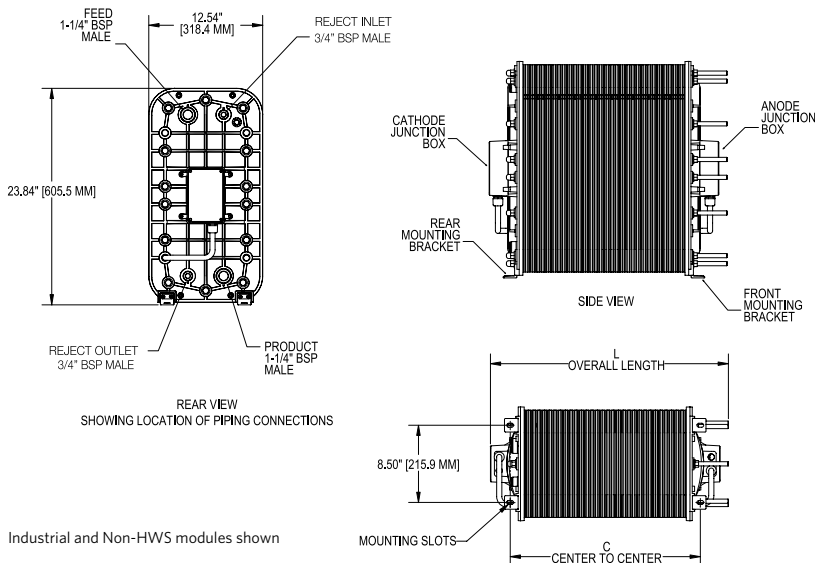
IONPURE® LX ENHANCE PERFORMANCE CONTINUOUS ELECTRODEIONIZATION (CEDI) MODULES FOR REPLACEMENTS OF E-CELL®

IONPURE LX CEDI MODULES

Continuous high-purity water without chemicals

The IONPURE® LX range of CEDI modules are specifically designed to provide ultra pure water for a wide range of industries including power, pharmaceutical, food and beverage and laboratory applications.

The LX range can be used as a direct replacement for GE's E-Cell® EDI Modules with minimal retrofit efforts. The LX range is optimized to provide equal or better performance with IONPURE'S proven reliability.



LX-MK Series Features

- Direct replacement for E-Cell MK1, MK2, and MK3 stacks
- Generates mixed-bed quality deionized water without the use of chemicals
- No need for acid/caustic, neutralization system or exchangeable DI tanks
- Continuous production instead of batch, with consistent quality
- Double O-ring seal guarantees leak-free operation
- Superior electrical isolation
- 100 psi (7 bar), 113°F (45°C) continuous operation
- Proprietary “all-filled” concentrating compartments eliminate recirculation pump and brine injection
- Available for either industrial applications or pharmaceutical applications
- Patented instant hot and continuous operation up to 140° F (60° C) for HT replacements

OPERATING ENVIRONMENT

Installation should be indoors with no direct sunlight and should have a maximum ambient temperature of 113°F (45°C).

MAXIMUM FEED WATER SPECIFICATIONS

Feed Water Conductivity Equivalent, including CO ₂ and Silica	< 40 µS/cm
Feed Water Source	RO permeate
Temperature	113° F (45° C) 140° F (60° C) - HWS Modules Only
Inlet Pressure	100 psi (7 bar)
Maximum Total Chlorine (as Cl ₂)	< 0.02 ppm
Iron (Fe)	< 0.01 ppm
Manganese (Mn)	< 0.01 ppm
Sulfide (S ²⁻)	< 0.01 ppm
pH	4 - 11
Total Hardness (as CaCO ₃)	< 1.0 ppm
Dissolved Organics (TOC as C)	< 0.5 ppm
Silica (as SiO ₂)	< 1.0 ppm

Sanitization Temperature at 85° ± 5°C at 30psi (2 bar) - HWS Modules Only

LX-MK REPLACEMENTS

MK1/MK2/MK3 Replacements³

Ionpure Order #	Ionpure Module #	E-Cell Model	Description	Product Flow Rates		Dimensions		Shipping Weight	Operating Weight
				Flow Rate (GPM)	Flow Rate (M ³ /H)	L	C		
W3T17300	IP-LXM24X-4	MK1	Pharmaceutical Chemical Sanitization	12.5	2.8	22.76" (578.2mm)	17.43" (442.6mm)	250 lbs (113 kg)	200 lbs (91 kg)
W3T17303	IP-LXM24Z-4	MK1	Industrial	12.5	2.8	22.76" (578.2mm)	17.43" (442.6mm)	250 lbs (113 kg)	201 lbs (91 kg)
W3T17312	IP-LXM30Z-4	MK2/MK3	Industrial	15.0	3.4	27.18" (690.4mm)	20.92" (531.1mm)	270 lbs (123 kg)	220 lbs (100 kg)
W3T17309	IP-LXM30X-4	MK2/ MK3-Pharm	Pharmaceutical Chemical Sanitization	15.0	3.4	27.18" (690.4mm)	20.92" (531.1mm)	270 lbs (123 kg)	221 lbs (100 kg)
W3T17293	IP-LXM18HI-3	MK2 HT	Pharmaceutical HI Hot Water Sanitization	9.0	2.0	19.91" (505.7mm)	15.62" (396.7mm)	220 lbs (100 kg)	170 lbs (77 kg)
W3T17314	IP-LXM45Z-4	MK3X	Industrial	22.5	5.1	35.72" (907.3mm)	29.44" (747.7mm)	320 lbs (145 kg)	270 lbs (123 kg)
W3T187073	IP-LXM45X-4	MK3X	Pharmaceutical Chemical Sanitization	22.5	5.1	35.72" (907.3mm)	29.44" (747.7mm)	320 lbs (145 kg)	270 lbs (123 kg)

LX-MK Mini Replacements³

W3T17291	IP-LXM10Z-4	MK3-Mini	Industrial	5.0	1.1	13.69" (347.7mm)	5.78" (146.8mm)	200 lbs (91 kg)	150 lbs (68 kg)
W3T17318	IP-LXM4X-4	MK2-Mini	Pharmaceutical Chemical Sanitization	2.0	0.5	10.12" (257mm)	5.78" (146.8mm)	150 lbs (68 kg)	100 lbs (45 kg)
W3T17316	IP-LXM4HI-3	MK2-Mini-HT	Pharmaceutical HI Hot Water Sanitization	2.0	0.5	11.81" (300.0mm)	7.47" (189.7mm)	150 lbs (68 kg)	110 lbs (50 kg)
W3T17287	IP-LXM10HI-3	MK3-Mini-HT	Pharmaceutical HI Hot Water Sanitization	5.0	1.1	15.29" (388.6mm)	10.96" (278.3mm)	200 lbs (91 kg)	150 lbs (68 kg)

³ Requires GE power Adaptor Cable (W3T355982)

⁴ Not suitable for MK HT module (Hot Water Sanitization)

QUALITY ASSURANCE STANDARDS

CE marked. Each module is factory tested to meet strict industry standards and is manufactured in an ISO 9001 and ISO 14000 quality and environmental management system.

TYPICAL MODULE PERFORMANCE

Operating Parameters

Recovery	90 - 95%
Pressure Drop Range at Nominal Flow	20 - 30 psi (1.4-2.1 bar)
Maximum Feed Temperature	113° F (45° C)
DC Voltage	0 - 600
DC Amperage	0 - 6.0 ¹

¹ 0 - 4.5 assuming existing rectifier used

Product Water Quality

Product Resistivity	> 16 megohm-cm ²
Silica (SiO ₂) Removal	90 - 99%, depending on feed conditions

² Note: Actual performance may be determined using the IP-Pro projection software available from Ionpure.