



## IONPURE® LX-Z CONTINUOUS ELECTRODEIONIZATION (CEDI) MODULES FOR INDUSTRIAL APPLICATIONS

### IONPURE LX-Z — INDUSTRIAL CEDI MODULE

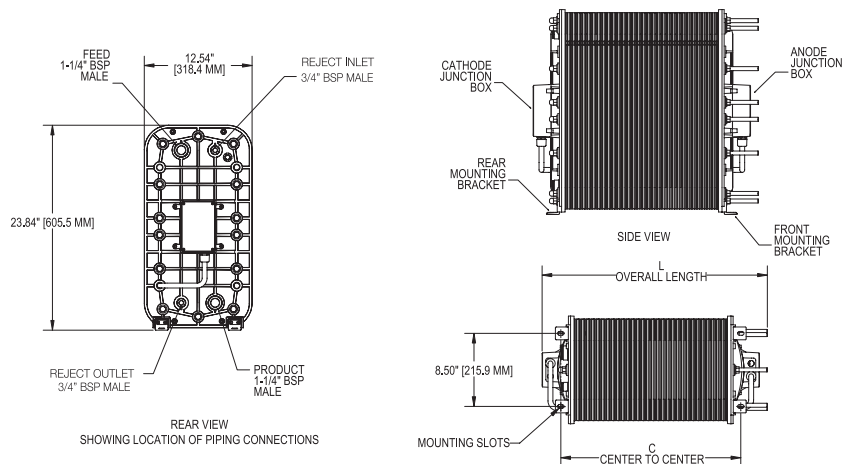
The Ionpure® LX-Z-5 modules with improved chlorine tolerance are specifically designed for a wide range of industrial deionized water applications and markets, including boiler makeup water for power plants, pharmaceutical pure water, water for hydrocarbon and chemical processing (HPI/CPI) and other high purity needs.

IONPURE CEDI modules provide a constant flow of high purity water without the need for downtime or chemical regeneration like conventional deionization methods.

### LX-Z Series Features

- Significantly lower operating costs than conventional ion exchange
- Generates mixed-bed quality deionized water without the use of chemicals
- Continuous production instead of batch, with consistent quality
- Double O-ring seal guarantees leak-free operation
- No need for acid/caustic, neutralization system or exchangable DI tanks
- Resin filled concentrate for optimal performance and ease of operation
- Continuous operation
- Up to 0.05 ppm (total  $Cl_2$ ) feed
- Wide range of flow from 0.22 m<sup>3</sup>/h (1 gpm) to 7.67 m<sup>3</sup>/h (33.8 gpm) per module
- Wetted materials of construction comply with NSF® 14 and NSF® 61 requirements

For additional information on our LX-Z industrial series of modules, call +1 866.876.3340 or visit our web site at [www.ionpure.com](http://www.ionpure.com).



## OPERATING ENVIRONMENT

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

## 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.

Halal Certification. All Ionpure modules are manufactured in accordance with the Islamic Food and Nutrition Council of America standards (IFANCA), and will carry the Crescent M Halal logo.

## Feed Water Specifications

Feed Water Conductivity Equivalent, including CO <sub>2</sub> and Silica	< 40 µS/cm
Feed Water Source	RO permeate
Temperature	5 - 45°C (41 - 113°F)
Inlet Pressure	1.4 - 6.9 bar (20 - 100 psig)
Maximum Total Chlorine (as Cl <sub>2</sub> )	< 0.05 ppm
Iron (as Fe)	< 0.01 ppm
Manganese (as Mn)	< 0.01 ppm
Sulfide (S <sup>2-</sup> )	< 0.01 ppm
pH	4 - 11
Total Hardness (as CaCO <sub>3</sub> )	< 1.0 ppm
Dissolved Organics (TOC as C)	< 0.5 ppm
Silica (SiO <sub>2</sub> )	< 1.0 ppm

## Typical Module Performance

Operating Parameters	
Recovery	90 - 95%
DC Voltage	0 - 300
DC Amperage	1.0 - 6.0
Product Water Quality	
Product Resistivity	Minimum Flow > 17 Megohm-cm** Maximum Flow > 7 Megohm-cm**
Silica (SiO <sub>2</sub> ) Removal	90 - 99%, depending on feed conditions

\*Actual performance may be determined using the IP-Pro projection tool available from Ionpure

\*\*Performance based on maximum Feed Water Conductivity Equivalent (40 µS/cm).

## Physical Specifications

Item Number	Dimensions	
	L +/- 6.4 mm (0.25")	C +/- 3.2 mm (0.13")
LXM04Z	257 mm (10.12")	146.8 mm (5.78")
LXM10Z	347.7 mm (13.69")	235.7 mm (9.28")
LXM18Z	488.2 mm (19.22")	353.8 mm (13.93")
LXM24Z	601.7 mm (23.69")	442.7 mm (17.43")
LXM30Z	696.5 mm (27.42")	531.3 mm (20.92")
LXM45Z	907.3 mm (35.72")	747.7 mm (29.44")

## LX-Z FLOW RANGE AND WEIGHTS

Ordering Part #	Model Number	Minimum Flow Rate m <sup>3</sup> /hr (gpm)	Design Flow Rate m <sup>3</sup> /hr (gpm)	Shipping Weight kg (lbs)*	Operating Weight kg (lbs)
W3T17286	IP-LXM04Z-5	0.22 (1.0)	0.44-0.67 (2.0-3.0)	59 (130)	31 (69)
W3T17291	IP-LXM10Z-5	0.57 (2.5)	1.1-1.65 (5.0-7.5)	78 (171)	51 (113)
W3T17297	IP-LXM18Z-5	1.02 (4.5)	2.0-3.1 (9.0-13.5)	99 (217)	74 (163)
W3T17303	IP-LXM24Z-5	1.36 (6.0)	2.8-4.2 (12.5-18.8)	115 (254)	92 (103)
W3T17312	IP-LXM30Z-5	1.70 (7.5)	3.3-5.11 (15.0-22.5)	132 (291)	110 (243)
W3T17314	IP-LXM45Z-5	2.57 (11.3)	5.1-7.67 (22.5-33.8)	205 (451)	157 (345)

\* Includes shipping crate



210 Sixth Avenue, Suite 3300, Pittsburgh, PA 15222

+1 (866) 926-8420 (toll-free) +1 (978) 614-7111 (toll)

[www.ionpure.com](http://www.ionpure.com)

Ionpure is a trademark of Evoqua Water Technologies LLC, its subsidiaries or affiliates in some countries. All other trademarks of those of their respective owners.

All information presented herein is believed reliable and in accordance with accepted engineering practices. Evoqua makes no warranties as to the completeness of this information. Users are responsible for evaluating individual product suitability for specific applications. Evoqua assumes no liability whatsoever for any special, indirect or consequential damages arising from the sale, resale or misuse of its products.

© 2020 Evoqua Water Technologies LLC Subject to change without notice ION-LXZ-DS-0620