

MODULE CEDI : LX-X



IONPURE® LX-X HIGH PURITY CONTINUOUS ELECTRODEIONIZATION (CEDI) MODULES

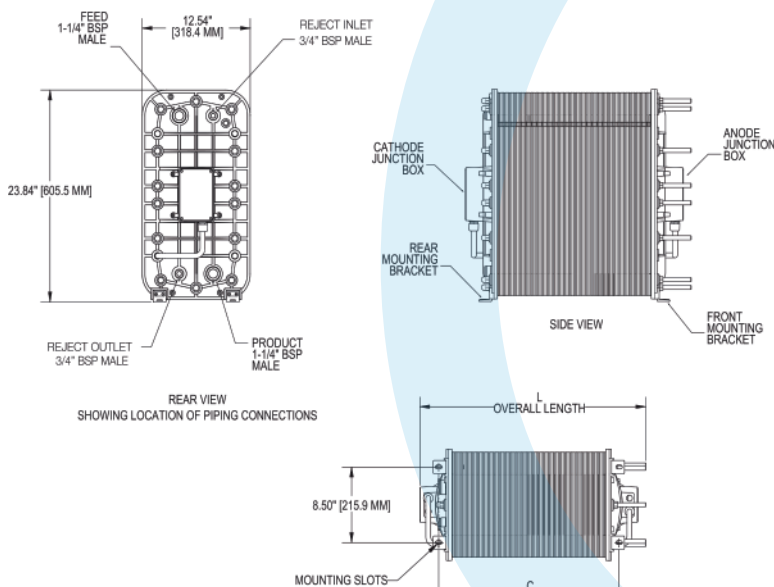
IONPURE LX-X — INDUSTRIAL CEDI MODULE

The Ionpure® LX-X industrial modules produce deionized water through electrodeionization for a wide range of high purity 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-X Series Features

- Generates mixed-bed quality deionized water without the use of chemicals
- Significantly lower operating costs, than conventional ion exchange
- No need for acid/caustic, neutralization system or exchangeable DI tanks
- Double O-ring seal guarantees leak-free operation
- Continuous production instead of batch, with consistent quality
- Superior electrical isolation
- Wide range of flow from 0.22 m³/h (1 gpm) to 7.67 m³/h (33.8 gpm) per module
- Wetted materials of construction comply with NSF® 61 requirements



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.

Typical Module Performance

Operating Parameters

Recovery	90 - 95%
Pressure Drop Range at Nominal Flow	25 -37 psi (1.7 - 2.5 Bar)
DC Voltage	0 - 300
DC Amperage	1.0 - 6.0

Product Water Quality

Product Resistivity	Minimum Flow	> 17 Megohm-cm**
	Nominal Flow	> 15 Megohm-cm**
	Maximum Flow	> 7 Megohm-cm**

Silica (SiO₂) 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)

LX-X FLOW RANGE AND WEIGHTS

Ordering Part #	Model #	Minimum Flow Rate m ³ /h (gpm)	Nominal Flow Rate m ³ /h (gpm)	Maximum Flow Rate m ³ /h (gpm)	Shipping Weight kg* (lbs)	Operating Weight kg (lbs)
W3T17318	IP-LXM4X-4	0.22 (1.0)	0.45 (2.0)	0.68 (3.0)	59 (130)	31 (69)
W3T17289	IP-LXM10X-4	0.57 (2.5)	1.13 (5.0)	1.70 (7.5)	78 (171)	51 (113)
W3T17295	IP-LXM18X-4	1.02 (4.5)	2.04 (9.0)	3.06 (13.5)	99 (217)	74 (163)
W3T17300	IP-LXM24X-4	1.36 (6.0)	2.73 (12.0)	4.09 (18.0)	115 (254)	92 (203)
W3T17309	IP-LXM30X-4	1.70 (7.5)	3.40 (15.0)	5.11 (22.5)	132 (291)	110 (243)
W3T187073	IP-LXM45X-4	2.57 (11.3)	5.11 (22.5)	7.67 (33.75)	205 (451)	157 (345)

* Includes shipping crate

Feed Water Specifications

Feed Water Conductivity Equivalent, including CO ₂ and Silica	< 40 µS/cm
Feed Water Source	RO permeate
Temperature	41 - 113°F (5 - 45°C)
Inlet Pressure	≤ 100 psi (6.9 bar)
Maximum Total Chlorine (as Cl ₂)	< 0.02 ppm
Iron (as Fe)	< 0.01 ppm
Manganese (as 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 (SiO ₂)	< 1.0 ppm

Physical Specifications

Item Number	Dimensions	
	L +/- 0.25" (6.4 mm)	C +/- 0.13" (3.2 mm)
LXM04X	10.12" (257 mm)	5.78" (146.8 mm)
LXM10X	13.69" (347.7 mm)	9.28" (235.7 mm)
LXM18X	19.22" (488.2 mm)	13.93" (353.8 mm)
LXM24X	23.69" (601.7 mm)	17.43" (442.7 mm)
LXM30X	27.42" (696.5 mm)	20.92" (531.3 mm)
LXM45X	35.72" (907.3 mm)	29.44" (747.7 mm)