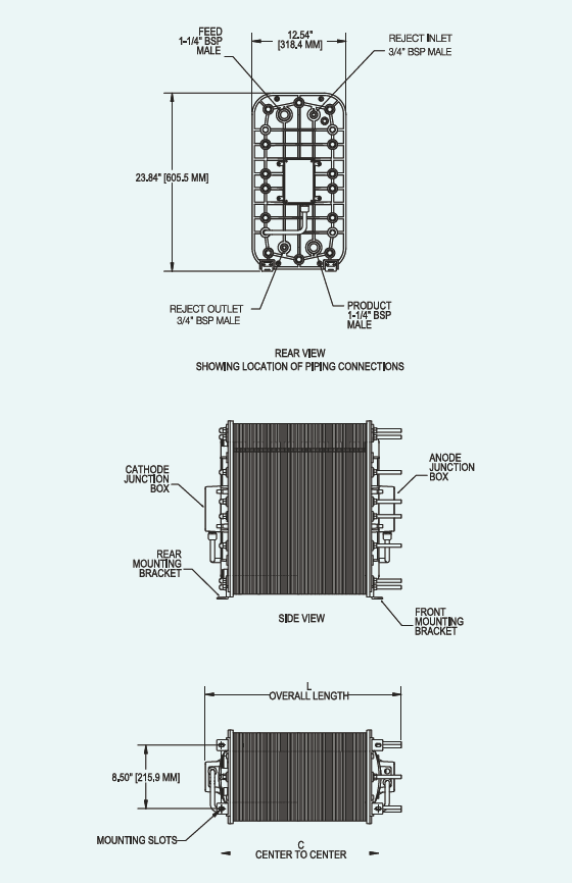
Ionpure® LX-X High Purity Continuous Electrodeionization (CEDI) Modules

LX Module — LX-X

The Ionpure® LX-X industrial modules produce high purity water through electrodeionization for a wide range of industrial applications. LX-X modules consistently deliver maximum reliability and superior performance for power, HPI/CPI, general electronics, food and beverage and laboratory applications without regeneration downtime.

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
- Proprietary "all filled" concentrating compartments eliminate recirculation pump and brine injection
- Continuous operation
- Wetted materials of construction comply with NSF61



For additional information:
e-mail EDIsupport@purewatergroup.com
call +31 165 348 253
or visit www.purewatergroup.com

Engineering purity

PURE WATER GROUP

INTERNATIONAL IONPURE MASTER SERVICE PROVIDER

LX-X Industrial
Continuous Electrodeionization (CEDI) Modules

Operating environment
Installation should be indoors with no direct sunlight and it 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.

Maximum Feed Water Specifications	
Feed water conductivity equivalent, Including CO_2 and Silica	< 40 µS/cm
Feed water source	RO permeate
Temperature	40 - 113°F (5 – 45°C)
Inlet pressure	20 – 100 psi (1.4 – 7 bar)
Maximum total chlorine (as Cl2)	< 0.02 ppm
Iron (Fe)	< 0.01 ppm
Manganese (Mn)	< 0.01 ppm
Sulphide (S^-)	< 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		
	Dimensions	
Module	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)

Typical Module Performance

Operating Parameters	
Recovery	90 – 95%
Maximum Feed Pressure	100 psi (7 bar)
Pressure Drop Range at Nominal Flow	20 – 30 psi (1.4 – 2.1 bar)
Maximum Feed Temperature	113°F (45°C)
DC voltage	0 – 300
DC amperage	0 – 6.0
Product Water Quality	
Product resistivity	Minimum Flow > 17 MΩ-cm* Nominal Flow > 15 MΩ-cm* Maximum Flow > 7 MΩ-cm*
Silica (SiO_2) removal	90 - 99% depending on feed conditions

*Actual performance may be determined using the IP-Pro projection software available from Ionpure.
*Performance based on maximum Feed Water Conductivity Equivalent (40 µS/cm)

Flow and Physical Specifications					
Module	Product Flow min. gpm (m^3/h)	Product Flow nominal gpm (m^3/h)	Product Flow max. gpm (m^3/h)	Shipping Weight lbs (kg)	Operating weight lbs (kg)
LXM04X	1.0 (0.22)	2.0 (0.44)	3.0 (0.67)	117 (53)	69 (31.5)
LXM10X	2.5 (0.55)	5.0 (1.1)	7.5 (1.65)	154 (70)	108 (49)
LXM18X	4.5 (1.1)	9.0 (2.0)	13.5 (3.1)	205 (93)	159 (72.5)
LXM24X	6.3 (1.4)	12.5 (2.8)	18.8 (4.2)	240 (109)	198 (90)
LXM30X	7.5 (1.65)	15.0 (3.3)	22.5 (5.11)	258 (117)	227 (103)
LXM45X	11.3 (2.55)	22.5 (5.1)	33.8 (7.67)	374 (169.5)	353 (160)

Pure Water Group
Korte Hei 3
4714 RD Sprundel
Tel. +31 165 348 253
info@purewatergroup.com
www.purewatergroup.com

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