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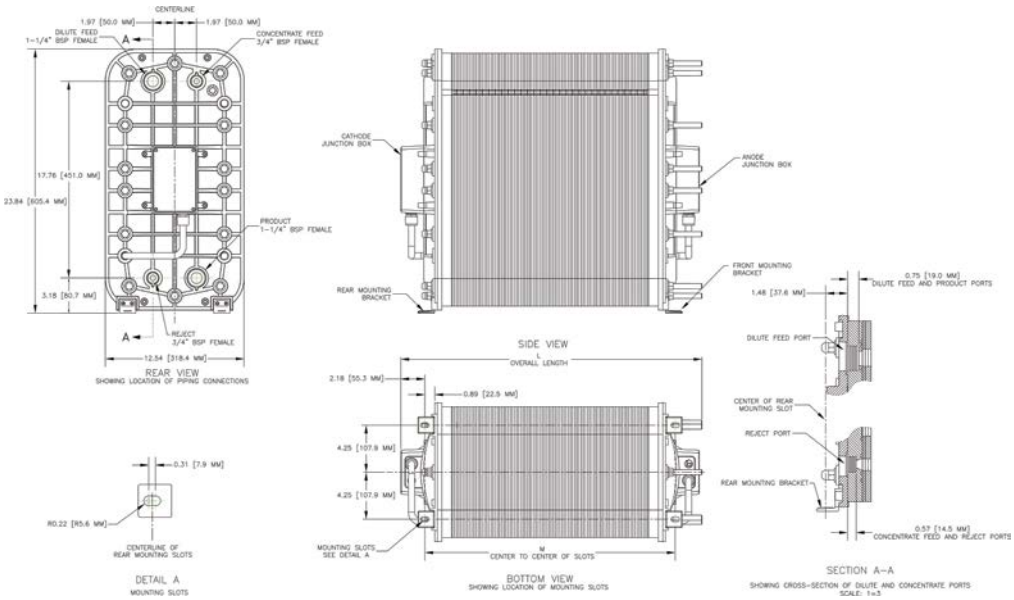
IONPURE® LX-HI INSTANT HOT WATER SANITIZABLE CONTINUOUS ELECTRODEIONIZATION (CEDI) MODULES

IONPURE LX-HI MODULE

Hot water sanitization has been shown to be more effective than chemical sanitization for controlling microbial growth. Ease of operation, maximum reliability and low operating costs are signature features of Ionpure® modules. LX-HI modules are ideal for pharmaceutical, biotechnology and other applications where chemical-free, instant hot water sanitization is desired. LX-HI modules produce high-purity water without regeneration downtime.



LX-HI Series Features

- Hot water sanitizable at 185°F/85°C ± 5°C
- Continuous operation up to 140°F (60°C)
- US Patented technology for instant hot water capability – no ramp up/down required
- Higher sanitization pressures 30 psi/2.0 bar
- Double O-ring seal guarantees leak-free operation
- Proven performance after 150+ sanitizations
  Concentrate recirculation and brine injection not required
  Wetted materials of construction comply with FDA requirements

OPERATING ENVIRONMENT

Installation should be indoors with no direct sunlight and should have a maximum ambient room 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.

Feed Water Specifications

Feed Water Conductivity Equivalent, including CO_2 and Silica	< 40 µS/cm
Temperature	40 - 140° F (5 - 60° C)
Inlet Pressure	20 - 100 psi (1.4 - 7 bar)
Maximum Free Chlorine (as Cl)	< 0.02 ppm
Iron (as Fe)	< 0.01 ppm
Manganese (as Mn)	< 0.01 ppm
Sulfide (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	
Item Number	**L ± .25" (6.4 mm)**	**M ± .13" (3.2 mm)**
IP-LXM04HI-3	11.81" (300.0 mm)	7.47" (189.7 mm)
IP-LXM10HI-3	15.29" (388.6 mm)	10.96" (278.5 mm)
IP-LXM18HI-3	19.91" (505.7 mm)	15.62" (396.7 mm)
IP-LXM24HI-3	23.38" (593.9 mm)	19.12" (485.6 mm)
IP-LXM30HI-3	27.42" (696.5 mm)	22.61" (574.2 mm)
IP-LXM45HI-3	35.72" (907.3 mm)	31.35" (796.3 mm)

Typical Module Performance

Operating Parameters	
Typical Recovery	90 – 95%
Maximum Feed Pressure	100 psi (7 bar)
DC Voltage*	0 – 600
DC Amperage	0 - 10
Pressure Drop Range at Nominal Flow	20 - 30 psi (1.4 - 2.1 bar)
Maximum Feed Temperature	113°F (45°C)
Sanitization Temperature at 30 psi (2.0 bar)	185°F (85°C)

Typical Product Water Quality	
Product Conductivity	< 0.1 µS/cm
Silica (SiO_2) Removal	90 – 99%, depending on feed water

Note: Actual performance may be determined using the IP-Pro projection software available from Ionpure.
* Voltage required depends on module size

ORDERING DETAILS

LX-HI Series Modules

Item Number	Product Flow min. gpm (m^3/hr)	Product Flow nominal gpm (m^3/hr)	Product Flow max. gpm (m^3/hr)	Shipping Weight lbs (kg)	Operating Weight lbs (kg)
IP-LXM04HI-3	1.0 (0.22)	2.0 (0.44)	3.0 (0.67)	150 (68)	110 (50)
IP-LXM10HI-3	2.5 (0.55)	5.0 (1.1)	7.5 (1.65)	200 (91)	150 (68)
IP-LXM18HI-3	4.5 (1.1)	9.0 (2.0)	13.5 (3.1)	220 (100)	170 (77)
IP-LXM24HI-3	6.3 (1.4)	12.5 (2.8)	18.8 (4.2)	250 (113)	200 (91)
IP-LXM30HI-3	7.5 (1.65)	15.0 (3.3)	22.5 (5.11)	270 (123)	220 (100)
IP-LXM45HI-3	11.3 (2.55)	22.5 (5.1)	33.8 (7.67)	320 (145)	270 (122.5)

EVOQUA WATER TECHNOLOGIES