



WATER TECHNOLOGIES



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

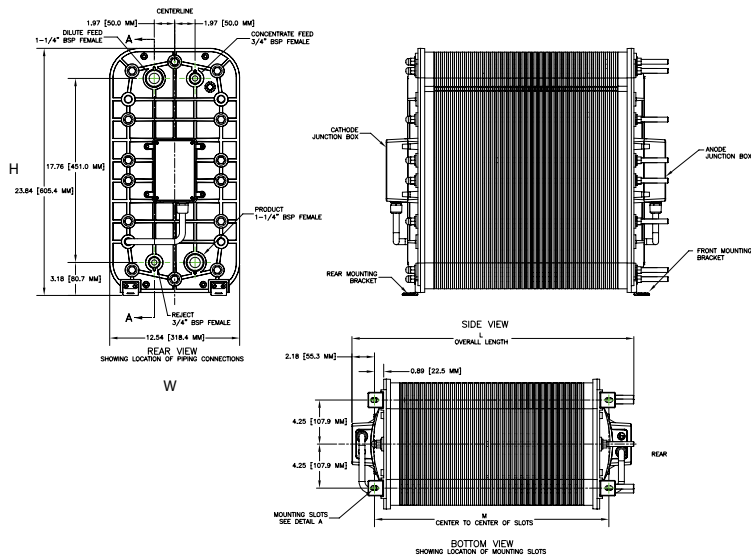
IONPURE LX-HI MODULE

Hot water sanitization has been shown to be more effective than chemical sanitization for controlling microbial growth, primarily in the pharmaceutical and biotechnology industries and other applications where chemical-free, instant hot water sanitization is desired.

LX-HI modules are capable of continuous operation up to 140°F (60°C) allowing these modules to provide high quality water, in higher temperature applications than typical CEDI, such as steam generation in power applications, without regeneration downtime. Ease of operation, maximum reliability and low operating costs are signature features of Ionpure modules.

LX-HI Series Features

- Hot water sanitizable at 185°F/85°C \pm 5°C
- Continuous operation up to 140°F (60°C)
- Patented technology for instant hot water capability – no ramp up/down required
- Higher sanitization pressure 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 for compliance with low voltage directive. 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 certified. 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.

Physical Specifications

Item Number	Dimensions		
	L	H	W
LXM04HI-3	11.81" (300.0 mm)	23.84" (605.5 mm)	12.54" (318.5 mm)
LXM10HI-3	15.29" (388.6 mm)	23.84" (605.5 mm)	12.54" (318.5 mm)
LXM18HI-3	19.91" (505.7 mm)	23.84" (605.5 mm)	12.54" (318.5 mm)
LXM24HI-3	23.38" (593.9mm)	23.84" (605.5 mm)	12.54" (318.5 mm)
LXM30HI-3	27.42" (696.5mm)	23.84" (605.5 mm)	12.54" (318.5 mm)
LXM45HI-3	35.72" (907.3 mm)	23.84" (605.5 mm)	12.54" (318.5 mm)

ORDERING DETAILS

LX-HI Series Modules

Ordering Part Number	Model Number	Product Flow min. gpm (m³/hr)	Product Flow nominal gpm (m³/hr)	Product Flow max. gpm (m³/hr)	Shipping Weight* lbs (kg)	Operating Weight lbs (kg)
W3T17316	IP-LXM4HI-3	1.0 (0.22)	2.0 (0.44)	3.0 (0.67)	140 (64)	79 (36)
W3T17287	IP-LXM10HI-3	2.5 (0.55)	5.0 (1.1)	7.5 (1.65)	180 (82)	122 (55)
W3T17293	IP-LXM18HI-3	4.5 (1.1)	9.0 (2.0)	13.5 (3.1)	215 (98)	161 (73)
W3T17298	IP-LXM24HI-3	6.3 (1.4)	12.5 (2.8)	18.8 (4.2)	248 (113)	197 (89)
W3T17304	IP-LXM30HI-3	7.5 (1.65)	15.0 (3.3)	22.5 (5.11)	286 (130)	238 (108)
W3T226955	IP-LXM45HI-3	11.3 (2.55)	22.5 (5.1)	33.8 (7.67)	431 (196)	325 (148)

* includes shipping crate

Feed Water Specifications

Feed Water Conductivity Equivalent, including CO ₂ and Silica	< 40 µS/cm
Temperature	41 - 140° F (5 - 60° C)
Inlet Pressure	≤ 100psi (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 ⁻)	< 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

Typical Module Performance

Operating Parameters

Typical Recovery	90 - 95%
Maximum Feed Pressure	100 psi (6.9 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	140°F (60°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



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