# Ionpure® LX-HI Instant Hot Water Sanitizable Continuous Electrodeionization(CEDI) Modules

#### Ionpure® LX Module — LX-HI

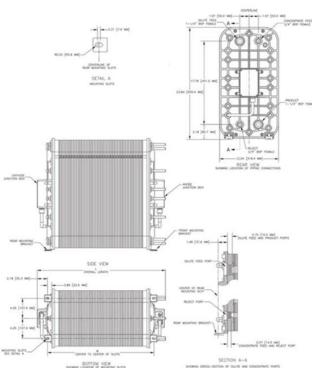
Hot water sanitization has been shown to be more effective than chemical sanitization for controlling microbiological growth. Ease operation, maximum reliability and low operating costs are signature features of lonpure® modules. LX-HI modules are ideal for pharmaceutical, biotechnology and other applications 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

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#### 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.

Maximum Feed Water Specifications					
Feed water conductivity equivalent, Including CO <sub>2</sub> and Silica	< 40 μS/cm				
Feed water source	RO permeate				
Temperature	40 - 140°F (5 – 60°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 <sup>-</sup> )	< 0.01 ppm				
Η	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				

#### Dimensions C +/- 0.13" (3.2 mm) Item Number +/- 0.25"(6.4 mm) LXM04HI-3 11.81" (300.0 mm) 7.47" (189.7 mm) LXM10HI-3 15.29" (388.6 mm) 10.96" (278.5 mm) LXM18HI-3 19.91" (505.7 mm) 15.62" (396.7 mm) LXM24HI-3 23.38" (593.9 mm) 19.12" (485.6 mm) LXM30HI-3 27.42" (696.5 mm) 22.61" (574.2 mm) LXM45HI-3 35.72" (907.3 mm) 31.35" (796.3 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	140°F (60°C)				
Sanitization Temperature at 30 psi (2.0 bar)	185°F (85°C)				
DC voltage	0 – 600				
DC amperage	0 – 10				
Product Water Quality					
Product conductivity	< 0.1µS/cm*				
Silica (SiO <sub>2</sub> ) removal	90 - 99% depending on feed conditions				
*Actual performance may be determined using the IP-Pro projection software available from longure.					

Flow and Physical Specifications						
Model Number	Product Flow min. gpm (m <sup>3</sup> /h)	Product Flow nominal gpm (m³/h)	Product Flow max. gpm (m <sup>3</sup> /h)	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)	

Pure Water Group

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