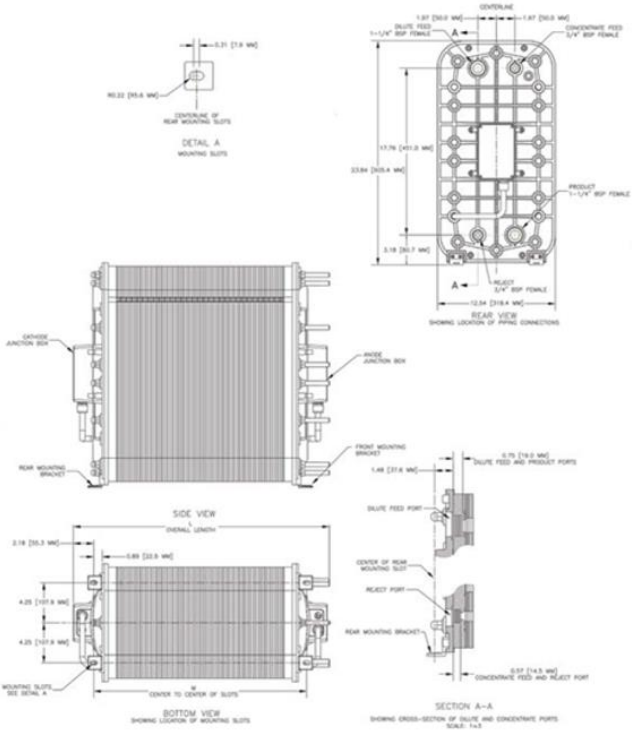
Ionpure® LX-HI Instant Hot Water Sanitizable Continuous Electrodeionization (CEDI) Modules

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 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



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-HI Instant Hot Water Sanitizable Continuous Electrodeionization (CEDI) Modules

Operating environment

Installation should be indoors with no direct sunlight and it should have a minimum 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_2 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^-)	< 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	C
LXM04HI	11.8" (30.0 cm)	7.47" (189.7 mm)
LXM10HI	15.29" (388.6 mm)	10.96" (278.5 mm)
LXM18HI	19.91" (505.7 mm)	15.62" (396.7 mm)
LXM24HI	23.38" (593.9 mm)	19.12" (485.6 mm)
LXM30HI	27.42" (696.5 mm)	22.61" (574.2 mm)
LXM45HI	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 – 6.0
Product Water Quality	
Product conductivity	< 0.1µS/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.

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)
LXM04HI	1.0 (0.22)	2.0 (0.44)	3.0 (0.67)	122 (55.5)	75 (34)
LXM10HI	2.5 (0.55)	5.0 (1.1)	7.5 (1.65)	153 (69.5)	108 (49)
LXM18HI	4.5 (1.1)	9.0 (2.0)	13.5 (3.1)	198 (90)	155 (70.5)
LXM24HI	6.3 (1.4)	12.5 (2.8)	18.8 (4.2)	233 (105.5)	188 (85.5)
LXM30HI	7.5 (1.65)	15.0 (3.3)	22.5 (5.11)	267 (121)	225 (102)
LXM45HI	11.3 (2.55)	22.5 (5.1)	33.8 (7.67)	367 (166.5)	333 (151)

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

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