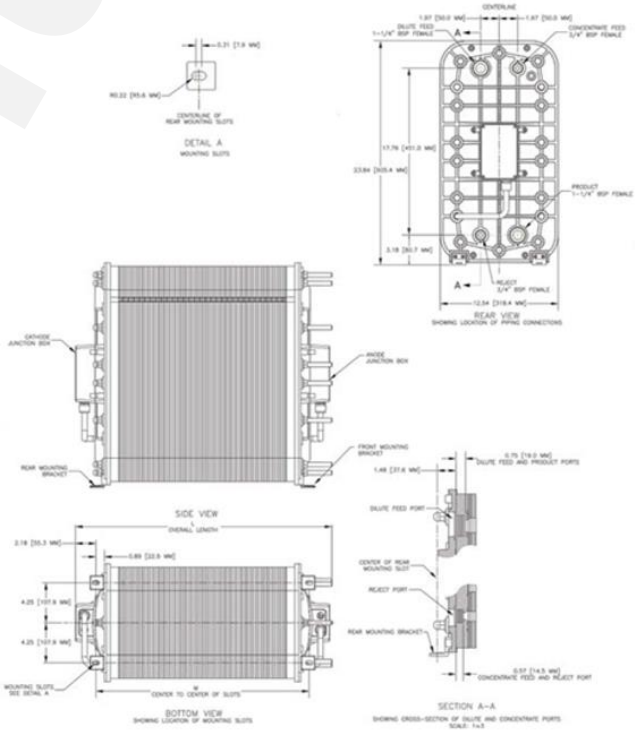
# Ionpure® LX-HI Instant Hot Water Sanitizable Continuous Electrodeionization(CEDI) Modules

## 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 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

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*Engineering purity*

PURE WATER GROUP

INTERNATIONAL IONPURE MASTER SERVICE PROVIDER

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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 $CO_2$ 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 | |
| Item Number | L +/- 0.25"(6.4 mm) | C +/- 0.13" (3.2 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 ($SiO_2$) 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 | | | | | |
|---|---|---|---|---|---|
| Model Number | 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) |
| 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) |

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