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

### Ionpure<sup>®</sup> 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

For additional information call +31 165 348 253 or visit our website at www.purewatergroup.com









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,<br>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-)   | < 0.01 ppm                 |  |  |  |
| рН  | 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                  |  |  |  |

| Physical Specifications |                        |                         |  |  |  |  |  |
|-------------------------|------------------------|-------------------------|--|--|--|--|--|
| Dimensions              |                        |                         |  |  |  |  |  |
| Item Number             | L<br>+/- 0.25″(6.4 mm) | C<br>+/- 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<br>Nominal Flow  | 20 – 30 psi (1.4 – 2.1 bar)              |  |  |  |  |  |
| Maximum Feed Temperature  | 140°F (60°C)                             |  |  |  |  |  |
| Sanitization Temperature at<br>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%<br>depending on feed conditions |  |  |  |  |  |
| *Actual performance may be determined using the ID Dro projection software available from Jappure |  |  |  |  |  |  |

\*Actual performance may be determined using the IP-Pro projection software available from lonpure.

| Flow and Physical Specifications |  |   |  |                             |                              |  |
|----------------------------------|--|---|--|-----------------------------|------------------------------|--|
| Model Number                     | Product Flow<br>min. gpm (m <sup>3</sup> /h) | Product Flow<br>nominal gpm (m <sup>3</sup> /h) | Product Flow<br>max. gpm (m <sup>3</sup> /h) | Shipping Weight<br>lbs (kg) | Operating weight<br>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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