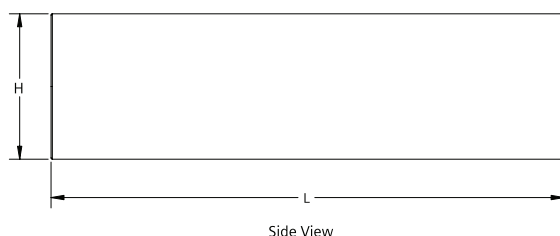
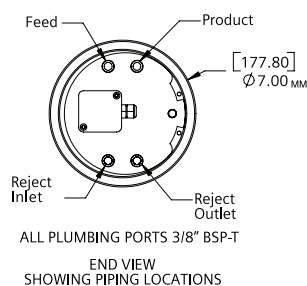




## IONPURE® MX LOW FLOW CONTINUOUS ELECTRODEIONIZATION (CEDI) MODULES

### IONPURE MX MODULES

The Ionpure® MX Series modules are designed with proven continuous electrodeionization (CEDI) technology. Performance on these modules has been optimized to produce high purity water for laboratory and smaller scale applications. A wide nominal flow range from 30 – 500 liters per hour increases the applicability for single module installations.



### MX Series Features

- Double O-ring seal & housing guarantees leak-free operation
- Superior electrical isolation
- 75 psi (5 bar), 113°F (45°C) continuous operation
- Proprietary "all-filled" concentrating compartments eliminate recirculation pump and brine injection
- Significantly lower operating costs
- Generate mixed-bed quality deionized water without the use of chemicals
- No need for acid/caustic, neutralization system or exchangable DI tanks
- Continuous production instead of batch, with consistent quality

Ionpure modules consistently deliver maximum reliability and superior performance for power, HPI/CPI, microelectronics, food and beverage and laboratory applications without regeneration downtime.

For additional information on our MX industrial series of modules call +1 866.876.3340 or visit our website at [www.ionpure.com](http://www.ionpure.com).

## ELECTRICAL REQUIREMENTS

Maximum module requirements are 200, 400, 600 VDC, 2.5 Amps.

## 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. 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.

## Feed Water Specifications

|  |                           |
|--|---------------------------|
| Feed Water Conductivity Equivalent, including CO <sub>2</sub> and Silica | < 40 µS/cm                |
| Feed Water Source  | RO permeate               |
| Temperature  | 41 - 113°F (5 - 45°C)     |
| Inlet Pressure   | 20 - 75 psi (1.4 - 5 bar) |
| Maximum Free Chlorine (as Cl <sub>2</sub> )                              | < 0.02 ppm                |
| Iron (as Fe)   | < 0.01 ppm                |
| Manganese (as Mn)  | < 0.01 ppm                |
| Sulfide (S <sup>-</sup> )  | < 0.01 ppm                |
| pH   | 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

| Item Number | Dimensions        |                 |
|-------------|-------------------|-----------------|
|             | L                 | C               |
| MX30        | 7.25" (18.41 cm)  | 7.0" (17.78 cm) |
| MX60        | 8.83" (21.27 cm)  | 7.0" (17.78 cm) |
| MX125       | 10.77" (27.37 cm) | 7.0" (17.78 cm) |
| MX250       | 15.45" (39.23 mm) | 7.0" (17.78 cm) |
| MX500       | 24.79" (62.90 mm) | 7.0" (17.78 cm) |

## Typical Module Performance

### Operating Parameters

|                                     |                             |
|-------------------------------------|-----------------------------|
| Recovery                            | 90 - 95%                    |
| Maximum Feed Pressure               | 75 psi (5 bar)              |
| Pressure Drop Range at Nominal Flow | 10 - 20 psi (0.7 - 1.4 bar) |
| Maximum Feed Temperature            | 113°F (45°C)                |

### Product Water Quality

|                                    |                                   |
|------------------------------------|-----------------------------------|
| Product Resistivity                | > 16 megohm-cm*                   |
| Silica (SiO <sub>2</sub> ) Removal | 90 - 99%, depending on feed water |

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

## FLOW AND PHYSICAL SPECIFICATIONS

| Item Number | Product Flow min. gpm (m <sup>3</sup> /hr) | Product Flow nominal gpm (m <sup>3</sup> /hr) | Product Flow max. gpm (m <sup>3</sup> /hr) | Shipping Weight lbs (kg) | Operating Weight lbs (kg) |
|-------------|--|---|--|--------------------------|---------------------------|
| MX30        | .06 (15)                                   | 0.13 (30)                                     | 0.19 (45)                                  | 10 (4.5)                 | 12 (5.4)                  |
| MX60        | 0.13 (30)                                  | 0.26 (60)                                     | 0.39 (90)                                  | 13 (5.9)                 | 15 (6.8)                  |
| MX125       | 0.27 (62.5)                                | 0.55 (125)                                    | 0.825 (187)                                | 25 (11)                  | 27 (12)                   |
| MX250       | 0.55 (125)                                 | 1.1 (250)                                     | 1.65 (375)                                 | 45 (20)                  | 47 (21)                   |
| MX500       | 1.1 (250)                                  | 2.2 (500)                                     | 3.3 (750)                                  | 75 (34)                  | 79 (36)                   |



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