

Ionpure® MX Low Flow Continuous Electrodeionization (CEDI) Modules

MX Module — Low Flow

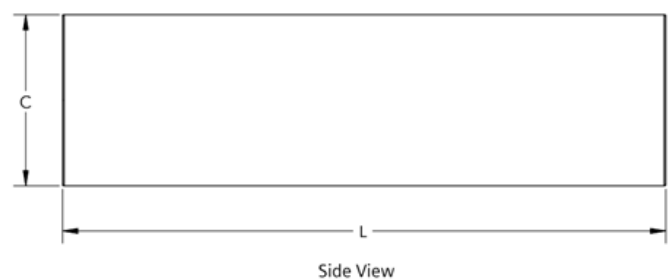
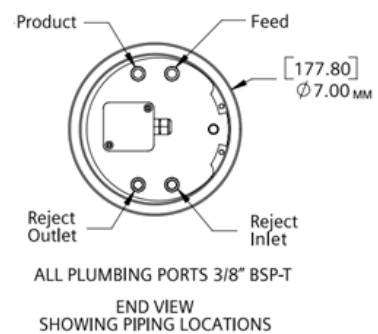
The Ionpure® MX modules are designed with proven continuous electrodeionization (CEDI) technology. Performance on these modules has been optimized to produce high purity water for laboratory and smaller scale applications. A wide nominal flow range from 30 – 500 liters per hour increases the applicability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

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

MX Series Features

- Generates mixed-bed quality deionized water without the use of chemicals
- Significantly lower operating costs than conventional ion exchange
- No need for acid / caustic, neutralization system or exchangeable DI tanks
- Double O-ring seal guarantees leak-free operation
- Continuous production instead of batch, with consistent quality
- Superior electrical isolation
- Proprietary "all filled" concentrating compartments eliminate recirculation pump and brine injection
- Wetted materials of construction comply with NSF61

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Engineering purity

INTERNATIONAL IONPURE MASTER SERVICE PROVIDER

MX Low Flow Continuous Electrodeionization (CEDI) Modules

Electrical requirements

Maximum module requirements are 27, 53, 106, 213, 426 VDC, 2.5 Amps.

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.

Physical Specifications

Dimensions

Module	L	H
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 cm)	7.0" (17.78 cm)
MX500	24.79" (62.90 cm)	7.0" (17.78 cm)

Maximum Feed Water Specifications

Feed water conductivity equivalent, Including CO ₂ and Silica	< 40 µS/cm
Feed water source	RO permeate
Temperature	40 - 113°F (5 - 45°C)
Inlet pressure	20 - 75 psi (1.4 - 5 bar)
Maximum total chlorine (as Cl ₂)	< 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

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 MΩ-cm*
Silica (SiO ₂) removal	90 - 99% depending on feed conditions

*Actual performance may be determined using the IP-Pro projection software

Flow and Physical Specifications

Module	Product Flow min. gpm (l/h)	Product Flow nominal gpm (l/h)	Product Flow max. gpm (l/h)	Shipping Weight lbs (kg)	Operating weight lbs (kg)
MX30	0.06 (15)	0.13 (30)	0.19 (45)	12 (4.5)	10 (5.4)
MX60	0.13 (30)	0.26 (60)	0.39 (90)	16 (5.9)	13 (6.8)
MX125	0.27 (62.5)	0.55 (125)	0.825 (187)	21 (9.55)	23 (10.45)
MX250	0.55 (125)	1.1 (250)	1.65 (375)	28 (12.73)	31 (14.09)
MX500	1.1 (250)	2.2 (500)	3.3 (750)	43 (19.55)	47 (21.36)

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