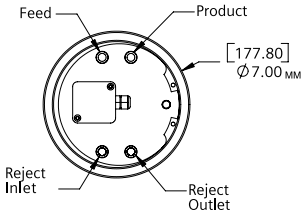
LENNTECH
info@lenntech.com Tel. +31-152-610-900
www.lenntech.com Fax. +31-152-616-289

EVOQUA WATER TECHNOLOGIES

IONPURE® MX LOW FLOW CONTINUOUS ELECTRODEIONIZATION (CEDI) MODULES

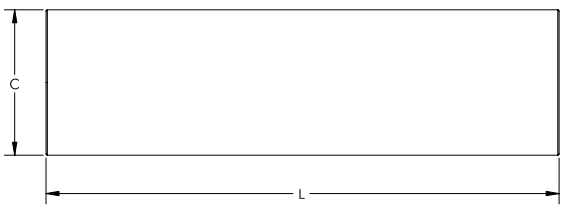
IONPURE MX MODULES

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.



ALL PLUMBING PORTS 3/8" BSP-T

END VIEW
SHOWING PIPING LOCATIONS



Side View

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 exchangeable 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.

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_2 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_2)	< 0.02 ppm
Iron (as Fe)	< 0.01 ppm
Manganese (as Mn)	< 0.01 ppm
Sulfide (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**	**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_2) 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^3/hr)	Product Flow nominal gpm (m^3/hr)	Product Flow max. gpm (m^3/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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