



Millenium HX

Medical Device

Portable Water Purification System w/ **Automatic Hot Water Disinfection**

Mar Cor Purification offers the next generation portable RO unit, the Millenium HX. This compact automatic RO represents a quantum leap in reliable water purification production with the added feature of automatic hot water disinfection.

The Millenium HX is designed to meet AAMI grade water standards according to ANSO/AAMI/ISO 13959:2009 and is ideal for use in home and acute dialysis settings. The automated heat disinfect process allows for greater bacteria control, reducing the need for chemicals, which leads to increased peace of mind and less downtime.

Standard Features & Benefits

- Color touch screen LCD display and control panel offers display of operational functions & key parameters.
- Quiet operation.
- Modular design for easy service procedures including ergonomically built-in-handles for placement or positioning.
- Data logging of important events along with password protected set-point & interactive troubleshooting screens.
- Improves membrane life with a low PSI shutdown.
- Immediate heat or chemical mode plus programable, reoccurring heat disinfection.
- Temperature compensation feature automatically adjusts flow.
- Improved membrane access allows removal from rear without machine disassembly.
- Environmentally & economically friendly design requires less power to operate.
- Certified to UL 61010-1, IEC 60601-1-2, & CAN/CSA C22.2 No: 61010-1



Optional Items

Mar Cor Purification offers a complete line of components and accessories, including:

- Pretreatment Cart
- Water Softener
- Hardness & Total Chlorine Test Kits
- Carbon Tanks
- AAMI Water Analysis
- High & Low pH Cleaners

Technical Data

Product Specifications

Millenium HX Reverse Osmosis System

Model	MHX	
Part Number	3025975 - 115 V, 50/60 Hz, 6 A	3025790 - 230 V, 50/60 Hz, 3 A
Nominal Product Flow Rate at 77°F (25°C)	1970 ml/min 31.2 gallons/hr (118 liters/hr)	
Machine Recovery Rate	50% (maximum)	
Dry Weight	70 lbs. (32 kg)	
Power Range	115/230 V, 60/50Hz, 6/3 amps	
Dimensions Vertical (of Assembled Unit)	Wide - 8.5" (21.6 cm) Depth - 23.5" (60 cm) Height - 25.5" (65 cm)	

Note: Initial product flow rate based on membrane manufacturer's specifications of pretreated feed water, 100 psi (14 bars) applied pressure, 77°F (25°C) incoming water temperature, 2,000 ppm (mg/L) NaCl, 15% recovery and 1 psi product pressure. Membrane flux may vary ± 10%. For MHX-750, 200 psi (14 bars) applied pressure, 2,000 ppm (mg/L) NaCl, and 15% recovery.

Operational Parameters

Millenium HX Reverse Osmosis System

pH	Operating: 5.5-10.5	Cleaning: 2-11
pH with Chloramines	Operating: 5.5-8.5	Cleaning: 2-11
Temperature	45-90°F (1.7-32°C)	
Water production decreases approximately 1.5% per 1°F (3% per 1°C) incoming water temperature drop.		
Inlet Pressure (Dynamic)	Minimum: 30 psi (2 bars)	Maximum: 75 psi (5.17 bars)
Inlet Water Flow	Minimum: 2 gpm (7.6 L/m)	
Total Hardness	10 grains (pH dependent)	
Silt Density Index (SDI)	<5	

Note: Detailed analysis of the feed water will dictate the components, if any, needed in pre- or post-treatment of the Millenium HX RO unit. This will help assure a constant supply of water, meeting AAMI Dialysis Water Quality Standards.



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