

## MILLENIUM HX<sup>®</sup>

### Water Purification System with Automatic Hot Water Disinfection

#### 510(k) Medical Device

#### GENERAL INFORMATION

The Millennium HX water purification system is a break-through portable RO unit. This compact RO represents a quantum leap in reliable water purification production with the added feature of isolated automated hot water disinfection.

The Millennium HX is designed to meet water standards according to ANSI/AAMI 13959 and is ideal for use in home and acute hemodialysis 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

- Color touch screen LCD panel offers display of operational functions & key parameters.
- Programmable auto flush and continuous product loop eliminates stagnation and ensures cleanliness and readiness.
- Quiet operation for regular and nocturnal treatments.
- 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 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<sup>®</sup> water purification products and services 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

## Product Specifications

### Millenium HX® Reverse Osmosis System

Model	MHX	
Part Number	W3T577749 - 115 V, 50/60 Hz, 6 A	W3T578742 - 230 V, 50/60 Hz, 3 A
Nominal Product Flow Rate at 77°F (25°C)	1400 ml/min 22.2 gallons/hr (84 liters/hr)	
Machine Recovery Rate	50% (nominal)	
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, 125 psi (14 bars) applied pressure, 77°F (25°C) incoming water temperature, 2,000 ppm (mg/L) NaCl, 20% recovery and 1 psi product pressure. Membrane flux may vary ± 15%.

## 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	40-90°F (4.4-32°C)	
Inlet Pressure (Dynamic)	Minimum: 35 psi (2.4 bars)	Maximum: 130 psi (9 bars)
Inlet Water Flow	Minimum: 1.5 gpm (5.7 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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