



AEROSPACE / INDUSTRIAL
BIOPHARMACEUTICAL
BIOTECHNOLOGY
MEDICAL DEVICE
PHARMACEUTICAL

MILLENIUM HX[®]

Portable Water Purification
Water Purification System with
Automatic Hot Water Disinfection

510(k) Medical Device

Life Sciences / Hemodialysis



MILLENIUM HX[®]

Water Purification System with
Automatic Hot Water Disinfection

510(k) Medical Device

Features

APPS INDUSTRIAL, OFFERS THE NEXT GENERATION OF THE PORTABLE UNIT RO, THE MILLENIUM HX.

AUTOMATIC AND COMPACT, REPRESENTS A QUALITATIVE IMPROVE IN THE PRODUCTION RELIABLE OF THE WATER, WITH THE ADDED CHARACTERISTIC OF DISINFECTION BY AUTOMATIC HOT WATER.

The Millennium HX is designed to meet AAMI grade water standards according to ANSO/AAMI 13959 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.



MILLENIUM HX[®]

Water Purification System with
Automatic Hot Water Disinfection

510(k) Medical Device

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 programmable, 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.





MILLENIUM HX[®]

Water Purification System with
Automatic Hot Water Disinfection

510(k) Medical Device

Technical Information

PRODUCT SPECIFICATIONS

MILLENIUM HX REVERSE OSMOSIS SYSTEM

Model	MHX
Part Number	DTB975 - 115 V, 50/60 Hz, 6 A DTB790 - 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 \pm 10%. For MHX-750, 200 psi (14 bars) applied pressure, 2,000 ppm (mg/L) NaCl, and 15% recovery.

MILLENIUM HX[®]

Water Purification System with
Automatic Hot Water Disinfection

510(k) Medical Device

Technical Specifications

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

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 Millennium HX RO unit. This will help assure a constant supply of water, meeting AAMI Dialysis Water Quality Standards.

MILLENIUM HX[®]

Water Purification System with
Automatic Hot Water Disinfection

510(k) Medical Device

Optional items



APPS Industrial 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.

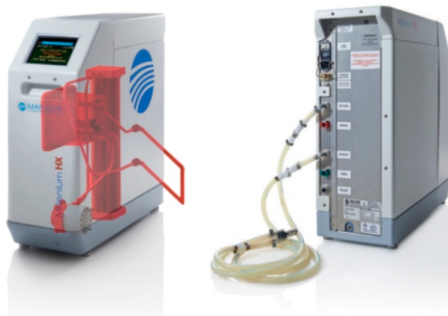
MILLENIUM HX[®]

Water Purification System with
Automatic Hot Water Disinfection

510(k) Medical Device

Ordering information

Part Number	Description	Packaging
DTB975	Millenium HX Reverse Osmosis System 115 V, 50/60 Hz, 6 A	1 System per box
DTB790	Millenium HX Reverse Osmosis System 230 V, 50/60 Hz, 3 A	1 System per box





MILLENIUH HX[®]

Water Purification System with
Automatic Hot Water Disinfection

510(k) Medical Device

Life Sciences / Hemodialysis

Contact information

Quotes and orders from around the world

APPS INC.
appsindustrial.com
+1 (818) 930 0779
[Toll free]: +1 818-5743-345
contact@appsindustrial.com

