

WRO 300 H

Portable Water Purification System with Automated Hot Water Disinfection

The WRO 300 H has been designed to overcome the problem of microbiological build up in portable dialysis reverse osmosis systems that may have extended idle periods. By integrating an automated heat disinfection system into the unit, the WRO 300 H system is engineered and manufactured to be clean by design.

The WRO 300 H water purification RO unit is designed for single hemodialysis patient operation. It satisfies the stringent demands of acute providers, while addressing the typical concerns of the home patient. This 510(k) device meets AAMI grade water standards according to ANSI/AAMI 13959 with the added capability of efficiently disinfecting without the use of chemicals all in a validated format.

Standard Features

- Heat Disinfection – User initiated or automatic start of heat disinfection cycle
- Ease of Use – portable, compact and easy to operate for caregivers
- Quiet Operation – Low noise level for regular and nocturnal treatments
- Safety – Programmable auto-flushing and continuous product loop eliminates stagnation and ensures system cleanliness
- Certified – Listed as certified by CSA to Canadian and US Medical Standard (UL 60601-1)

Medical Device



User Interface Displays

- Alarm Messages
- Feed & Product Water Conductivity
- Ionic Rejection Rate
- Product Water Temperature
- Date & Time
- Total Run Time
- Service Reminder
- Days Since Last Cleaning & Disinfection

Technical Data

WRO 300 H Specifications	
Part Number	107365
Feed Water Supply	
Input	0.8 gpm (3.0 l/min) required
Pressure	20 to 45 psi (0.15 to 0.3 mPa)*
Temperature	41 to 86°F (5 to 30°C)
Quality	Potable water shall be used. Softener followed by carbon/particle filter ensures optimum performance.
Product Water	
Output	Minimum 0.3 gpm (1.1 l/min) at 50°F (10°C) and 22 psi (0.15 mPa) outlet pressure
Quality	Depends on inlet water quality. If potable water is used and WRO 300 H is maintained according to the manual, the following minimum rejection rates will be obtained: Total dissolved salts > 96 % Bacteria and pyrogens > 99 %
Drain Requirements	
Operation	0.32 ± 0.03 gpm (1.2 ± 0.1 l/min)
Peak Flow (Rinse)	0.8 gpm (3.0 l/min)
Reverse Osmosis Membrane	
Material	Polyamide, thin film composite
Configuration	Spiral wound
pH-Tolerance	2–11
Disinfection & Cleaning	
Heat Disinfection	User initiated or automatic start of heat disinfection
Chemical Disinfection	Automatic dilution of disinfectant. Rinse memory forcing the rinse program to start after chemical disinfection.
Cleaning	Customized programs for different customer needs
Power Supply	
Main Voltage	100, 115 or 220-240 V +/-10%, 50 or 60 Hz
Power	100V: max 1500 W, 115V: max 1380 W, 220-240V: max 1850W

WRO 300 H Dimensions			
Depth - Max	20.5 inches (520mm)	Depth - Footprint	15.0 inches (380mm)
Width - Max	8.1 inches (205mm)	Width - Footprint	7.3 inches (185mm)
Height	22.2 inches (563mm)	Weight	72.75 lbs (33kg)

*Pressure greater than 45 PSI (0.3 mPa) requires the use of a pressure regulator.



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