



CWP 100

Reverse Osmosis System 5,000 to 13,000 GPD

The CWP 100 offers cost-effective, consistent delivery of AAMI grade water standards according to ANSI/AAMI/ISO 13959:2009, water for dialysis at the point of use. This system is designed to meet all current standards for dialysis quality water.

The automated heat disinfection of the distribution loop and the automated chemical disinfection of the RO and membranes simply and easily reduce biofilm development and minimizes levels of endotoxin, fungi, yeast and other microbial contaminants.

Greater cost-effectiveness is ensured through system efficiency and labor savings. The CWP represents a simple, convenient, and effective disinfection strategy. Advanced electronics and top quality components also ensure quiet, reliable, and safe operation.

Standard Features

- Hot water loop disinfection
- Medical-grade Wirsbo-cleanPEX® distribution system
- Direct feed operation
- Automated disinfection of the loop and RO membrane
- Integrated end-to-end heat with the Phoenix® Hemodialysis System
- Monitoring software for documentation and verification of disinfection procedures
- 510(k)-cleared as a water purification system for hemodialysis

Medical Device



Optional Items

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

- Blending Valves and Booster Pumps
- Multi-Media Filters
- Water Softeners
- Carbon Adsorption
- Hardness and Total Chlorine Test Kits
- AAMI Water Analysis
- Chemical Disinfectants

Technical Data

CWP 100 Specifications					
Product Water - Minimum capacity at 20°C and at a pure water outlet pressure of 29 psi(200 kPa)					
Output	Model	101	102	104	106
	Part Number	103310	101366	100474	103256
	Product Water in gallons/min (l/min)	3.4 (13)	5.3 (20)	7.7 (29)	9.3 (35)
Quality	Depends on inlet water quality. The system is designed to utilize drinking water that meets the standards of the Safe Drinking Water Act, 40 CFR. Additional pretreatment of inlet water is required. A properly maintained system using inlet water meeting SDWA can obtain the following rejection rates: Total dissolved salts > 95 % • Bacteria (CFU) & endotoxins > 99 % • Water conversion factor 67 %				
Water Supply					
Input	Model	101	102	104	106
	Min Input flow in gallons/min (l/min)	5.3 (20)	7.9 (30)	13.2 (50)	15.9 (60)
	Min Input pressure in psi (kPa)	15 (100)	15 (100)	36 (250)	51 (300)
	Max Input pressure in psi (kPa)	73 (500)	73 (500)	73 (500)	73 (500)
Temperature	+5°C to +25°C* *(Maximum +20°C if peracetic acid is used for disinfection)				
Drain Requirements					
Peak Flow (Rinse)	Model	101	102	104	106
	Required capacity in gallons/min (l/min)	5.3 (20)	7.9 (30)	13.2 (50)	15.9 (60)
	Note: Maximum flow occurs during flushing				
Reverse Osmosis Membranes					
Material	Modified polyamide, thin film composite				
Configuration	Spiral wound				
pH-Tolerance	2-11				
Power Supply					
Main Voltage	120/208 V, 60 Hz, 3-phase (5 wires) Other voltages on request				
Power rating	RO-unit 101-104: 1.8 kW; RO-unit 106: 2.5 kW; Heating unit 101-106: 9.0 kW				
Fuse	16 AT + 32 AT, 16 (slow blow) or 40 AT (slow blow) one supply				

CWP 100 Dimensions				
Model	101	102	104	106
Depth	26.4 in (670 mm)	26.4 in (670 mm)	26.4 in (670 mm)	26.4 in (670 mm)
Width	68 in (1720 mm)	75 in (1910 mm)	83 in (2100 mm)	83 in (2100 mm)
Height	79.1 in (2010 mm)	79.1 in (2010 mm)	79.1 in (2010 mm)	79.1 in (2010 mm)

CWP 100 Weight				
Model	101	102	104	106
Unit	1014 lbs (460 kg)	1113 lbs (505 kg)	1224 lbs (555 kg)	1290 lbs (585 kg)
Unit w/ Packaging	1466 lbs (665 kg)	1664 lbs (755 kg)	1819 lbs (825 kg)	1885 lbs (855 kg)
Unit in Operations	1709 lbs (775 kg)	1995 lbs (905 kg)	2128 lbs (965 kg)	2216 lbs (1005 kg)

Note: 20 inches (500mm) extra space is required on both sides of the unit.

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Wirbo-cleanPEX® is a registered trademark of Uponor Wirbo AB.



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