



# Environmental requirements

## Quanta Dialysis System and associated water purification and filtration devices





The criteria below are the operational environmental requirements needed to utilize the Quanta Dialysis System (QDS), alongside the Mar Cor WRO 300H water purification unit and Pre-Filtration System, which are optionally provided by Quanta to generate the dialysis-quality water used by the QDS.







## Quanta Dialysis System:

General	
Outlets	15A
Height between bottom of QDS and patient access (above or below)	8" (20cm)
Environmental conditions	
Altitude	Maximum 8,202ft (2,500m)
Temperature	59°F - 89.6°F (15°C - 32°C)
Humidity	10% - 75% non-condensing
Water supply	
Water quality	RO-quality water
Flow to QDS inlet	Minimum 800 mL/min
Pressure to QDS inlet	14.5 - 72.52 psi (1 - 5 bar)
Temperature	50°F - 86°F (10°C - 30°C)
Drain	
Diameter	Minimum 1.5" (3.8cm)
Distance from machine	3.9ft - 16.4ft (1.2 - 5m)
Height from floor	Maximum 36" (91.5cm)
Flow requirement	Minimum 1L/min

## Mar Cor WRO 300H & Pre-Filtration System:

General	
Outlets	15A
Environmental conditions	
Temperature	50°F - 104°F (10°C - 40°C)
Humidity	30% - 85%
Water supply	
Water Hardness	Maximum 0.3°dH (6 ppm as CaCO <sup>3</sup> )
Flow to RO inlet	minimum 3 L/min
Pressure to RO inlet	0.15 - 0.3 MPa (22 - 45 psi)
Temperature	41°F - 86°F (5°C - 30 °C)
Inlet connection	3/4" GHT
Inlet hose diameter	3/8"
Drain	
Distance from RO	Maximum 16.4ft (5m)
Height from RO drain outlet	Maximum 3.28ft (1m)
Flow requirement	1.2 ± 0.1 L/min

## Suggested staffing support

Activity	Time commitment	Suggested personnel
 QDS hot rinse	1 hour weekly	Nurse or Biomed
 RO hot rinse (only needed if RO is disconnected from water and power when stored)	1 hour weekly	Nurse or Biomed
 Dialysate Product Water, sampling of Microbial and Endotoxin levels	40 minutes monthly (unless required more often by clinic protocol)	Biomed
 Sampling of Product Water and Dialysis Water chemistry	40 minutes annually (unless required more often by clinic protocol)	Biomed
 Five-micron Pre-Filtration filter replacement	5 minutes monthly or when blocked	Biomed
 Carbon Pre-Filtration filter replacement	15 minutes quarterly or when chlorine level is above limit	Biomed



## Contact us

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