

Reverse Osmosis Systems for Sterile Processing (AWRO Series)

Your Path to ANSI/AAMI ST108 Compliance Starts Here

AmeriWater's RO System: Optimized for Performance, Efficiency, and Compliance

The AmeriWater Reverse Osmosis (RO) System is specifically designed to support the needs of healthcare customers requiring high-purity water for ANSI/AAMI ST108 compliance. This compact system prioritizes ease of use and includes preventative measures for effective infection prevention for your sterile processing department.

SYSTEM HIGHLIGHTS:

Efficient Monitoring and Operational Ease

- **Smart Monitoring:** Real-time data displays conductivity, water temperature, operating hours, percent rejection, and status messages for efficient monitoring.
- **Product Conductivity Alarms:** Boosts safety with automatic shutdowns and alerts when limits are exceeded.
- **Low Feed Pressure Alarm:** Enjoy peace of mind, knowing that components remain protected from premature wear.
- **Pre-treatment Lockout:** RO lockout during pretreatment prevents downstream carryover.

Simplified Compliance and Enhanced Safety

- **Divert to Drain:** Automatically diverts water to the drain when conductivity exceeds the set point.
- **Programmable Standby Flush:** Initiates flushing during idle periods to mitigate bacteria growth.
- **Integrated Pre-treatment:** A pre-filter protects the membrane and enhances system performance.
- **Clear Labeling:** Accurate straightforward guidance for daily checks.

Built for Long-Term Value

- **High-Efficiency Membranes:** Energy-efficient, high-rejection TFC membranes for top-tier water quality and reduced energy.
- **Quiet Operation:** Robust stainless-steel pump designed for efficient performance with reduced power consumption.
- **Water Conservation:** Effective recirculation and reject capabilities.
- **Durable Construction:** Designed with an easy to clean, powder-coated aluminum frame, that is resistant to corrosion.

Designed for Your Ease of Use

- **Open Frame Design:** Designed with a sturdy open frame and casters, for ease of serviceability and mobility.
- **Ergonomic Component Placement:** Minimizes physical strain during maintenance and daily checks.
- **Streamlined Compatibility:** Easy connection to anti-scalant feeders, ensures optimal membrane protection against scaling.
- **Membrane Profiling:** Simple individual diagnostics of membranes to ensure integrity.
- **Clean in Place (CIP) Connection:** Provides convenient CIP system connection, enabling effective membrane cleaning and disinfection.
- **Accessible Sample Ports:** Simplifies routine checks for chlorine and water quality levels.



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STANDARDS:

- ETL listed, conforms to UL Std 61010-1
- Certified CAN/CSA C22.2 No. 61010-1
- ISO13485 registered device

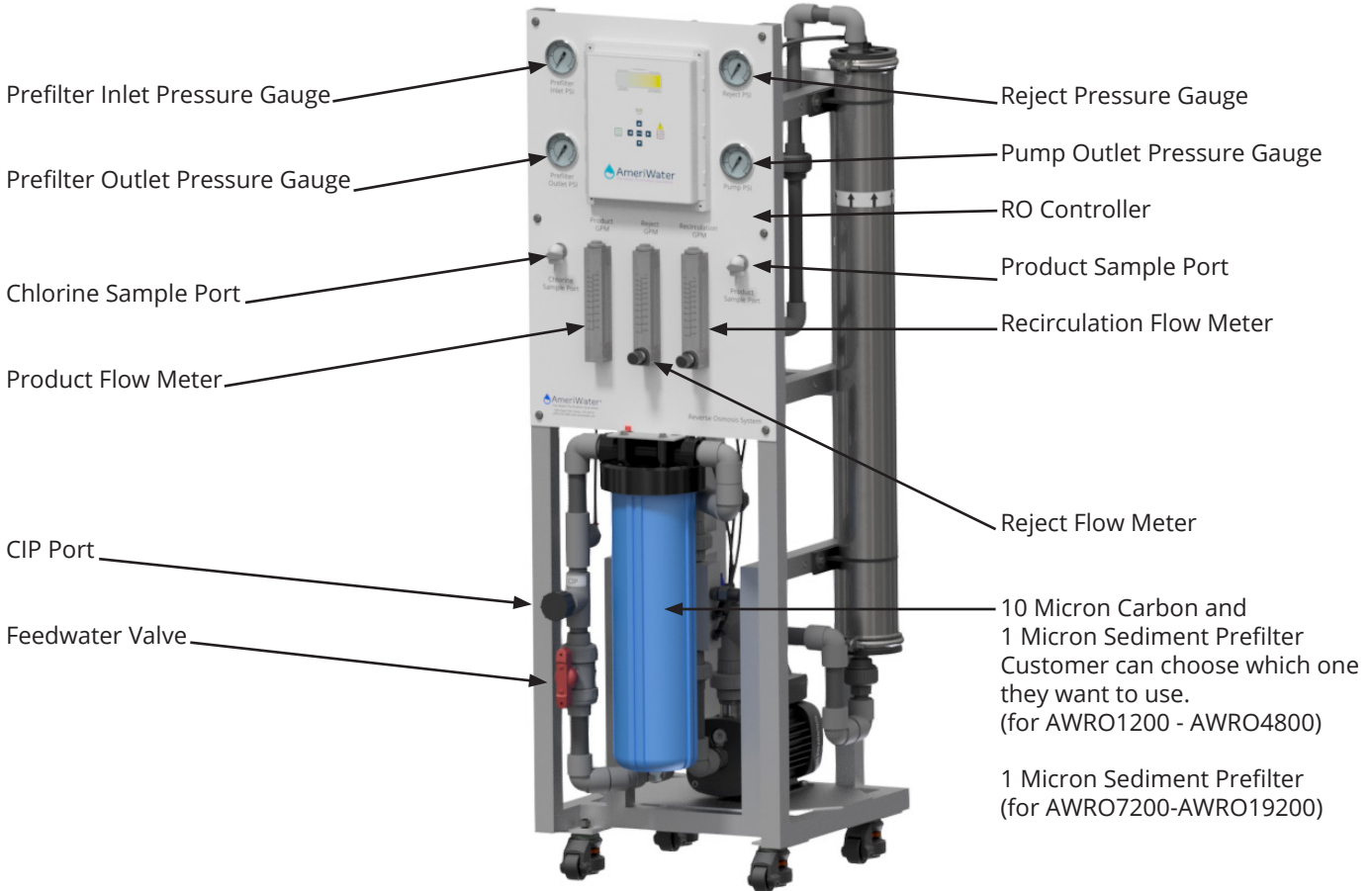
SPECIFICATIONS									
Models	AWRO 1200	AWRO 2400	AWRO 4800	AWRO 7200	AWRO 9600	AWRO 12000	AWRO 14400	AWRO 16800	AWRO 19200
Performance									
Production Capacity (Gallons Per Day)*	1,200	2,400	4,800	7,200	9,600	12,000	14,400	16,800	19,200
Number of Membranes	1	1	2	3	4	5	6	7	8
Operating Temperature	50 to 90°F (10 to 32°C)								
Recovery Percentage	50% - 75%								
Nominal Rejection	95% - 98%								
Feedwater									
Feedwater Pressure	30 PSI to 80 PSI dynamic								
Minimum Feedwater Flow Rate (GPM)	2.5	5	8	12	15	18	22	27	32
Maximum Water Temperature	90°F (32°C) adjust blend valve to 75°F to 80°F (24°C to 27°C)								
Design Temperature	77°F (25°C)								
Hardness as CaCO ₃	12 grains per gallon (gpg)								
Silica	40 ppm								
Turbidity	< 1 NTU								
pH Range	6.0 to 8.5								
Iron	0.1 ppm								
Electrical									
Electrical Supply	Controller	120V, 50/60 Hz, 1 Ph							
	Pump (Default)**	230VAC, 60 Hz, 1 Ph 115V, 60 Hz, 1 Ph		208-230VAC, 60 Hz, 3 Ph 440-480VAC, 60 Hz, 3 Ph					
	Pump HP	.8		1		2.3		3.4	
Rated Current	Controller	5 Amps							
	Pump	3.9 A / 7.6 A		3.4-3.6 A / 1.7-1.8 A		6.7-6.5 A / 3.3-3.4 A		9.7-9.4 A / 4.6-4.65 A	
Weight and Dimensions									
Weight (Shipping/Operating) Lbs.	195 / 185	210 / 195	253 / 223	282 / 262	310 / 285	382 / 357	410 / 380	425 / 395	446 / 416
Dimensions (W x D x H) In.	20 x 24 x 61		21 x 24 x 62		21 x 24 x 66		22 x 38 x 67		

* Product flow rate varies with temperature and inlet pressure. All models are rated at 77°F with feedwater of 1500 mg/l NaCl @ 55 PSI feed pressure and pH of 7.5. As a safety factor use 60% of the rated capacity when sizing or add blend valve to temper the feedwater.

** The pump will be wired for the **default voltage** indicated above. It can be reconfigured to the other voltage in the field (refer to the operation manual for instructions).

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SYSTEM COMPONENTS:



CONSUMABLES:

Part Number	Description
R22-4044	Membrane replacement for AWRO1200
R22-4046	Membrane replacement for AWRO2400
R22-4045	Membrane replacement for AWRO4800-AWRO19200
0024-0011	O-ring replacement kit for RO membrane
20-5105	10 micron filter cartridge, 4.5" x 20", DOE
21530239	O-ring, BB filter housing
20-1016	Sediment filter cartridge for AWRO1200-AWRO19200
21675187	Filter wrench, 4.5" x 10-20", 6 nubs
97WS20301	Test Strips Water Soft, Water Hardness (6 bottles of 100 strips each)
97PH20901	Test Strips pH (6 Bottles of 100 Strips each) For Measuring pH/Water/Acid, Base/Bicarbonate
97RC22101	WaterCheck RC (6 Bottles of 100 Strips each) For Measuring Residual Chlorine
97CM20201	WaterCheck 2 (6 Bottles of 100 Strips each) For Measuring Low Level Chlorine/Chloramine