

# ECO-SERIES REVERSE OSMOSIS SYSTEMS

**AXEON® ECO-Series Reverse Osmosis Systems** are state-of-the-art, versatile systems for treating tap and well water supplies with flow rates ranging from 2,000 to 8,000 gallons per day with minimal energy consumption and low maintenance and operation costs.

**ECO-Series Reverse Osmosis Systems** feature a robust, innovative design that allows for versatility in the event of feed water quality and temperature variations. Standard features include a composite solenoid valve, low pressure switch, and a stainless steel booster pump for high performance and corrosion resistance.



**ECO-8000**  
Reverse Osmosis System

## FEATURES

- C-26 Controller
- AXEON Extra Low Energy Membrane Element
- AXEON FRP-Series Fiberglass Membrane Housings
- Pentair 4.5" x 20" Pre-Filter Housing
- AXEON SDF-Series 5 Micron Pre-Filter
- Multi-Stage Stainless Steel Centrifugal Pump
- Motor Thermal Overload Protection
- Pump Operating Pressure Gauge
- Pre-Filter In Pressure Gauge
- Pre-Filter Out Pressure Gauge
- Permeate Flow Meter
- Stainless Steel Concentrate Flow Meter with Integrated Needle Valve
- Stainless Steel Recycle Flow Meter with Integrated Needle Valve
- Feed Low Pressure Switch
- Composite Solenoid Valve
- DM-2 Dual TDS Monitor

# SPECIFICATIONS

MODELS	ECO-2000	ECO-4000	ECO-6000	ECO-8000
<b>Design</b>				
Configuration	Single Pass	Single Pass	Single Pass	Single Pass
Feedwater Source <sup>†</sup>	TDS < 2000	TDS < 2000	TDS < 2000	TDS < 2000
Standard Recovery Rate %	Up to 60	Up to 75	Up to 75	Up to 75
<b>Flow Rates<sup>††</sup></b>				
Permeate Flow (gpm / lpm)	1.39 / 5.26	2.78 / 10.52	4.17 / 15.79	5.56 / 21.05
Minimum Concentrate Flow (gpm / lpm)	3.00 / 11.36	3.00 / 11.36	3.00 / 11.36	3.00 / 11.36
Concentrate Recycle Flow (gpm)	Up to 2.00 / 7.57	Up to 5.00 / 18.93	Up to 5.00 / 18.93	Up to 5.00 / 18.93
<b>Connections</b>				
Feed Connection (inch)	3/4 FNPT	3/4 FNPT	3/4 FNPT	3/4 FNPT
Permeate (inch)	1/2 QC	1/2 QC	1/2 QC	1/2 QC
Concentrate (inch)	1/2 QC	1/2 QC	1/2 QC	1/2 QC
<b>Membranes</b>				
Membrane Per Vessel	1	1	1	1
Membrane Quantity	1	2	3	4
Membrane Size	4040	4040	4040	4040
Nominal TDS Rejection %	99.2	99.2	99.2	99.2
<b>Vessels</b>				
Vessel Array	1	1:1	1:1:1	1:1:1:1
Vessel Quantity	1	2	3	4
<b>Pumps</b>				
Pump Type	Multi-Stage	Multi-Stage	Multi-Stage	Multi-Stage
Motor HP	1/2 - 3/4	1/2 - 3/4	1 - 1 1/2	1 - 1 1/2
RPM at 60 Hz	3450	3450	3450	3450
<b>System Electrical</b>				
Controller	C-26	C-26	C-26	C-26
Standard Voltage + Amp Draw	110V, 1PH, 60HZ, 13.4A*	110V, 1PH, 60HZ, 13.4A*	220V, 1PH, 60HZ, 10.94*	220V, 1PH, 60HZ, 10.94*
<b>System Dimensions</b>				
Approximate Dimensions** L x W x H (inch)	26 x 27 x 55	26 x 30 x 55	26 x 30 x 55	26 x 30 x 55
Approximate Weight (lbs)	130	140	155	180

**Warranty Evaluation Test Conditions:** Permeate Flow rates and salt rejection based on the following test conditions—550 ppm, filtered and dechlorinated municipal tap water, 77°F / 25°C, 15% recovery, 7.0 pH and the specified operating pressure for membrane element type. Data taken after 60 minutes of operation.

\*Varies with motor manufacturer.

\*\*Does not include operating Space requirements.

<sup>†</sup>Low temperatures and feedwater quality, such as high TDS levels will significantly affect the system's production capabilities and performance. Computer projections must be run for individual applications which do not meet or exceed minimum and maximum operating limits for such conditions.

<sup>††</sup>Product flow and standard recovery rates are based on feedwater conditions as stated above. Do not exceed the recommended permeate flow.

## OPERATING LIMITS<sup>†</sup>

Design Temperature, °F	77	Maximum Free Chlorine, ppm	0
Maximum Feed Temperature, °F	85	Maximum TDS, ppm	2,000
Minimum Feed Temperature, °F	40	Maximum Hardness, gpg	< 1
Maximum Ambient Temperature, °F	120	Maximum pH (continuous)	10
Minimum Ambient Temperature, °F	40	Minimum pH (continuous)	4
Maximum Feed Pressure, PSI	85	Maximum pH (cleaning 30 minutes)	12
Minimum Feed Pressure, PSI	45	Minimum pH (cleaning 30 minutes)	2
Maximum Operating Pressure, PSI	200	Maximum Turbidity, NTU	1
Maximum SDI Rating	< 3		

<sup>†</sup>System pressure is variable due to water conditions. Permeate flow will increase at a higher temperature and will decrease at a lower temperature.

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