

L1 – Series Reverse Osmosis Systems

AXEON L1 – Series Reverse Osmosis Systems are a cost-effective solution for light commercial reverse osmosis applications such as coffee, tea, food preparation, misting, hydroponics, detailing and more.

AXEON L1 – Series Reverse Osmosis Systems feature a compact wall mount space saving design and comes pre-assembled and ready for immediate service with simple utility connections. These systems are available in capacities of 200 and 300 gallons per day and feature a single pump design for reliable performance. Each model is engineered with quality AXEON components including fiberglass (FRP) membrane housings, extra low energy membranes, pressure gauges, filters and housings.



AXEON L1 – 300
Wall Mount
Reverse Osmosis System

Features

- AXEON HF4 – Series Extra Low Energy Membrane Elements
- AXEON FRP – Series 300E Fiberglass Membrane Housing
- AXEON 5 – Micron Sediment Pre-Filter
- AXEON 10 – Micron Carbon Block Pre-Filter and Post-Filter
- AXEON by Pentek® 10" Slim Line Cartridge Housings
- AXEON 0 – 300 psi Glycerin-Filled Pump Pressure Gauge
- AXEON 0 – 100 psi Glycerin-Filled Pre-Filter Pressure Gauge
- AXEON 0 – 100 psi Glycerin-Filled Permeate Pressure Gauge
- Aquatec Tank High Pressure Switch
- Composite Feed Solenoid Valve
- Aquatec Auto Flush Timer Valve

- Aquatec High Flow Booster Pump
- John Guest® Push/Pull Fittings with Locking Safety Clips

Options and Upgrades

- 10" and 20" Floor Stands
- AXEON HF5 – Series Ultra Low Energy Membrane Elements
- AXEON SS – Series Membrane Housing
- TDS Dual Monitor

Know Higher Standards™

AXEON L1 – Series Reverse Osmosis Systems

Product Specifications		
Models	L1 – 200	L1 – 300
Design		
Configuration	Single Pass	Single Pass
Feedwater Source [†]	TDS <1000	TDS <1000
Standard Recovery Rate	40%	50%
Rejection and Flow Rates^{†††}		
Nominal Salt Rejection %	98.5	98.5
Permeate Flow (gpm / lpm)	0.14 / 0.53	0.21 / 0.79
Minimum Concentrate Flow (gpm / lpm)	0.21 / 0.79	0.21 / 0.79
Connections		
Feed FNPT (in)	3/8 QC	3/8 QC
Permeate FNPT (in)	3/8 QC	3/8 QC
Concentrate FNPT (in)	1/4 QC	1/4 QC
Membranes		
Membrane(s) Per Vessel	1	1
Membrane Quantity	1	1
Membrane Size	2514	2521
Vessels		
Vessel Array	1	1
Vessel Quantity	1	1
Standard Pump		
Pump Type	Aquatec 8800	Aquatec 5800
System Electrical		
Standard Voltage + Amp Draw	110V, 60Hz, 1PH, 4.0A	110V, 60Hz, 1PH, 4.0A
High Voltage Service + Amp Draw	220V, 50Hz, 1PH, 2A	220V, 50Hz, 1PH, 2A
Systems Dimensions		
Approximate Dimensions* L x W x H (in / cm)	9 x 18 x 19 / 22.9 x 45.7 x 48.3	9 x 27 x 19 / 22.9 x 68.6 x 48.3
Approximate Weight (lbs / kg)	42 / 19.1	50 / 22.7

Test Parameters: 550 TDS Filtered (5 – Micron), Dechlorinated, Municipal Feedwater, 65 psi / 4.50 bar Feed Pressure, 100 psi / 6.9 bar Operating Pressure, 77°F / 25°C, Recovery as stated, 7.0 pH. Data taken after 60 minutes of operation.

* Does not include operating space requirements.

Operating Limits^{††}

Design Temperature (°F / °C)	77 / 25	Maximum Turbidity (NTU)	1
Maximum Feed Temperature (°F / °C)	85 / 29	Maximum Free Chlorine (ppm)	0
Minimum Feed Temperature (°F / °C)	40 / 4	Maximum TDS (ppm)	1,000
Maximum Ambient Temperature (°F / °C)	120 / 49	Maximum Hardness (gpg)	1
Minimum Ambient Temperature (°F / °C)	40 / 4	Maximum pH (Continuous)	11
Maximum Feed Pressure (psi / bar)	85 / 6	Minimum pH (Continuous)	2
Minimum Feed Pressure (psi / bar)	45 / 3	Maximum pH (Cleaning 30 Minutes)	13
Maximum Operating Pressure (psi / bar)	110 / 7.5	Minimum pH (Cleaning 30 Minutes)	1
Maximum Feed Silt Density Index (SDI)	<3		

[†] Low temperatures and feedwater quality, such as high TDS levels will significantly affect the systems 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.

^{††} System pressure is variable due to water conditions. Permeate flow will increase at a higher temperature and will decrease at a lower temperature.

^{†††} Product flow and maximum recovery rates are based on feedwater conditions as stated above. Do not exceed recommended permeate flow.