

LP-SERIES REVERSE OSMOSIS SYSTEMS

AXEON® LP-Series Reverse Osmosis Systems

are engineered in response to the need within the light commercial markets. The LP-Series systems provide a cost-effective solution for customers and are easy to install and maintain. These systems are designed to be wall mounted or free-standing and feature a 5-Micron Sediment and 10-Micron Carbon Pre-Filters, Slim Line Filter Housings and AXEON 500 GPD membranes and membrane housings.

AXEON LP-Series Reverse Osmosis Systems are available in models ranging from 350 to 700

gallons per day (GPD), at a line pressure of 70 psi. The LP-500 model is available with a pump to deliver 500 GPD.



LP-700
Reverse Osmosis System
with cover, pressure gauges and TDS meter

FEATURES

- AXEON TF-3012 500 Membrane Element
- AXEON 3012 Membrane Housing
- AXEON 2.5" x 10" 5-Micron Sediment Pre-Filter
- AXEON 2.5" x 10" 10-Micron Carbon Block Pre-Filter and Post-Filter
- Pentair® 10" Slim Line Filter Housings
- Automatic Shut Off Valve

- Push/Pull Fittings with Locking Safety Clip
- Cover with Glycerin-Filled Pressure Gauges Including:
 - Post-Filter Pressure Gauge
 - Operational Pressure Gauge
 - Permeate Pressure Gauge
 - HM-Digital® DM-2 Dual TDS Meter

SPECIFICATIONS

Configuration Single Pass Single Pass Single Pass Feedwater Source (ppm) ^A TDS < 500 TDS < 500 TDS < 500 Standard Recovery Rate % 40 46 38 Flow Rates ^B ************************************	MODELS	LP-350	LP – 500	LP-700	
Feedwater Source (ppm)^A	Design				
Standard Recovery Rate %	Configuration	Single Pass	Single Pass	Single Pass	
Permeate Flow (gpm / lpm)	Feedwater Source (ppm) ^A	TDS < 500	TDS < 500	TDS < 500	
Permeate Flow (gpm / lpm)	Standard Recovery Rate %	40	46	38	
Minimum Feed Flow (gpm / lpm) 0.66 / 2.50 0.76 / 2.88 1.33 / 5.03 Maximum Feed Flow (gpm / lpm) 8.00 / 30.28 8.00 / 30.28 8.00 / 30.28 Connections Feed (in) 3/8 QC 3/8 QC 3/8 QC Feed (in) 3/8 QC 3/8 QC 3/8 QC Connections Feed (in) 3/8 QC 3/8 QC 3/8 QC 3/8 QC 3/8 QC 3/8 QC 3/8 QC Connections 3/8 QC 3/8 QC 3/8 QC 3/8 QC A QC 3/8 QC <td< td=""><td>Flow Rates^B</td><td></td><td></td><td></td></td<>	Flow Rates ^B				
Maximum Feed Flow (gpm / lpm) 8.00 / 30.28 8.00 / 30.28 8.00 / 30.28 Connections Feed (in) 3/8 QC 3/8 QC 3/8 QC Permeate / Holding Tank (in) 3/8 QC 3/8 QC 3/8 QC Concentrate (in) 3/8 QC 3/8 QC 3/8 QC Wembranes Wembrane Per Vessel 1 1 1 Membrane Quantity 1 1 2 Membrane Size 3012 3012 3012 Nominal TDS Rejection % 98 98 98 Vessel Array 1 1 1 2 (Parallel) Vessel Quantity Vessel Quantity 1 1 1 2 Pump Included No Yes No Pump Type N/A Aquatec 5800 N/A System Electrical Standard Voltage + Amp Draw ^c N/A 220V, 50Hz, 1PH N/A System Dimensions Approximate Dimensions ⁰ L x W x H (in / cm) 12.00 x 17.00 x 22.00 / 30.48 x 43.18 x 55.80	Permeate Flow (gpm / lpm)	0.24 / 0.91	0.35 / 1.31	0.49 / 1.85	
Feed (in) 3/8 QC	Minimum Feed Flow (gpm / lpm)	0.66 / 2.50	0.76 / 2.88	1.33 / 5.03	
Feed (in) 3/8 QC	Maximum Feed Flow (gpm / lpm)	8.00 / 30.28	8.00 / 30.28	8.00 / 30.28	
Permeate / Holding Tank (in) 3/8 QC	Connections				
Concentrate (in) 3/8 QC 3/8 QC 3/8 QC 3/8 QC Membranes Membrane Per Vessel 1 1 1 1 1 2 Membrane Quantity 1 1 1 2 3012 Membrane Size 3012 3012 3012 Nominal TDS Rejection % 98 98 98 Vessels Vessel Array 1 1 1 1 2 (Parallel) Vessel Quantity 1 1 1 2 Pumps Pump Included No Yes No Pump Type N/A Aquatec 5800 N/A System Electrical Standard Voltage + Amp Draw ^C N/A 220V, 50Hz, 1PH N/A System Dimensions Approximate Dimensions ⁰ L x W x H (in/cm) 12.00 x 17.00 x 22.00 / 30.48 x 43.18 x 55.80 30.48 x 43.18 x 55.80 30.48 x 43.18 x 55.80	Feed (in)	3/8 QC	3/8 QC	3/8 QC	
Membranes Membrane Per Vessel 1 1 1 1 1 1 1 1 2 2 3012	Permeate / Holding Tank (in)	3/8 QC	3/8 QC	3/8 QC	
Membrane Per Vessel 1 1 1 Membrane Quantity 1 1 2 Membrane Size 3012 3012 3012 Nominal TDS Rejection % 98 98 98 Vessel Array 1 1 1 2 (Parallel) Vessel Array 1 1 1 2 (Parallel) Pumps Pump Included No Yes No Pump Type N/A Aquatec 5800 N/A System Electrical Standard Voltage + Amp Draw ^C N/A 220V, 50Hz, 1PH N/A System Dimensions Approximate Dimensions ^D L x W x H (in/cm) 12.00 x 17.00 x 22.00 / 30.48 x 43.18 x 55.80 30.48 x 43.18 x 55.80 30.48 x 43.18 x 55.80	Concentrate (in)	3/8 QC	3/8 QC	3/8 QC	
Membrane Quantity 1 1 2 Membrane Size 3012 3012 3012 Nominal TDS Rejection % 98 98 98 Vessel Section % Vessel Array 1 1 1 2 (Parallel) Vessel Quantity 1 1 2 Pumps Pump Included No Yes No Pump Type N/A Aquatec 5800 N/A System Electrical Standard Voltage + Amp Draw ^c N/A 220V, 50Hz, 1PH N/A System Dimensions Approximate Dimensions ^D L x W x H (in / cm) 12.00 x 17.00 x 22.00 / 30.48 x 43.18 x 55.80 30.48 x 43.18 x 55.80 30.48 x 43.18 x 55.80	Membranes			,	
Membrane Size 3012 3012 3012 3012 Nominal TDS Rejection % 98 98 98 98	Membrane Per Vessel	1	1	1	
Nominal TDS Rejection % 98 98 98 98 98 98 98	Membrane Quantity	1	1	2	
Vessels Vessel Array 1 1 2 (Parallel) Vessel Quantity 1 1 2 Pumps Pump Included No Yes No Pump Type N/A Aquatec 5800 N/A System Electrical Standard Voltage + Amp Draw ^c N/A 220V, 50Hz, 1PH N/A System Dimensions Approximate Dimensions ^D L x W x H (in/cm) 12.00 x 17.00 x 22.00 / 30.48 x 43.18 x 55.80 12.00 x 17.00 x 22.00 / 30.48 x 43.18 x 55.80	Membrane Size	3012	3012	3012	
Vessel Array 1 1 2 (Parallel) Vessel Quantity 1 1 2 Pumps Pump Included No Yes No Pump Type N/A Aquatec 5800 N/A System Electrical System Electrical N/A 220V, 50Hz, 1PH N/A System Dimensions Approximate Dimensions ^D L x W x H (in/cm) 12.00 x 17.00 x 22.00 / 30.48 x 43.18 x 55.80 12.00 x 17.00 x 22.00 / 30.48 x 43.18 x 55.80 12.00 x 17.00 x 22.00 / 30.48 x 43.18 x 55.80	Nominal TDS Rejection %	98	98	98	
Vessel Quantity 1 1 2 Pumps Pump Included No Yes No Pump Type N/A Aquatec 5800 N/A System Electrical Standard Voltage + Amp Draw ^c N/A 220V, 50Hz, 1PH N/A System Dimensions 12.00 x 17.00 x 22.00 / 30.48 x 43.18 x 55.80 12.00 x 17.00 x 22.00 / 30.48 x 43.18 x 55.80 12.00 x 17.00 x 22.00 / 30.48 x 43.18 x 55.80	Vessels				
Pumps Pump Included No Yes No Pump Type N/A Aquatec 5800 N/A System Electrical Standard Voltage + Amp Draw ^c N/A 220V, 50Hz, 1PH N/A System Dimensions Approximate Dimensions ^D L x W x H (in/cm) 12.00 x 17.00 x 22.00 / 30.48 x 43.18 x 55.80 12.00 x 17.00 x 22.00 / 30.48 x 43.18 x 55.80 30.48 x 43.18 x 55.80	Vessel Array	1	1	2 (Parallel)	
Pump Included No Yes No Pump Type N/A Aquatec 5800 N/A System Electrical Standard Voltage + Amp Draw ^c N/A 220V, 50Hz, 1PH N/A System Dimensions Approximate Dimensions ^D L x W x H (in/cm) 12.00 x 17.00 x 22.00 / 30.48 x 43.18 x 55.80 12.00 x 17.00 x 22.00 / 30.48 x 43.18 x 55.80 30.48 x 43.18 x 55.80	Vessel Quantity	1	1	2	
Pump Type N/A Aquatec 5800 N/A System Electrical Standard Voltage + Amp Draw ^c N/A 220V, 50Hz, 1PH N/A System Dimensions Approximate Dimensions ^D L x W x H (in/cm) 12.00 x 17.00 x 22.00 / 30.48 x 43.18 x 55.80 12.00 x 17.00 x 22.00 / 30.48 x 43.18 x 55.80	Pumps				
System Electrical Standard Voltage + Amp Draw ^C N/A 220V, 50Hz, 1PH N/A System Dimensions Approximate Dimensions ^D L x W x H (in/cm) 12.00 x 17.00 x 22.00 / 30.48 x 43.18 x 55.80 12.00 x 17.00 x 22.00 / 30.48 x 43.18 x 55.80 12.00 x 17.00 x 22.00 / 30.48 x 43.18 x 55.80	Pump Included	No	Yes	No	
Standard Voltage + Amp Draw ^c N/A 220V, 50Hz, 1PH N/A System Dimensions 12.00 x 17.00 x 22.00 / 30.48 x 43.18 x 55.80 12.00 x 17.00 x 22.00 / 30.48 x 43.18 x 55.80 12.00 x 17.00 x 22.00 / 30.48 x 43.18 x 55.80 12.00 x 17.00 x 22.00 / 30.48 x 43.18 x 55.80	Pump Type	N/A	Aquatec 5800	N/A	
System Dimensions 12.00 x 17.00 x 22.00 / 30.48 x 43.18 x 55.80 12.00 x 17.00 x 22.00 / 30.48 x 43.18 x 55.80 12.00 x 17.00 x 22.00 / 30.48 x 43.18 x 55.80 12.00 x 17.00 x 22.00 / 30.48 x 43.18 x 55.80	System Electrical				
Approximate Dimensions ^D L x W x H (in/cm)	Standard Voltage + Amp Draw ^c	N/A	220V, 50Hz, 1PH	N/A	
Approximate Dimensions L x W x H (in / cm) 30.48 x 43.18 x 55.80 30.48 x 43.18 x 55.80 30.48 x 43.18 x 55.80	System Dimensions				
Approximate Weight (lbs / kg) 30 / 13.60 36 / 16.30 33 / 14.90	Approximate Dimensions ^D L x W x H (in/cm)				
	Approximate Weight (lbs / kg)	30 / 13.60	36 / 16.30	33 / 14.90	

Test Parameters: 500 TDS Filtered (5-Micron), Dechlorinated, Municipal Feedwater, 65 psi / 4.50 bar Feed Pressure, 100 psi / 6.8 bar Operating Pressure, 77°F / 25°C, Recovery as stated, 7.0 pH. Data taken after 60 minutes of operation.

OPERATING LIMITS^E

Maximum Feed Temperature (°F / °C)	85 / 29	Maximum Turbidity (NTU)	1
Minimum Feed Temperature (°F / °C)	40 / 4	Maximum Free Chlorine (ppm)	0
Maximum Ambient Temperature (°F / °C)	120 / 49	Maximum TDS (ppm)	500
Minimum Ambient Temperature (°F / °C)	40 / 4	Maximum Hardness (gpg)	1
Maximum Feed Pressure (psi / bar) ^D	90 / 6 (LP-350, LP-700); 70 / 5 (LP-500)	Maximum pH (continuous)	10
Minimum Feed Pressure (psi / bar) ^D	70 / 5 (LP-350, LP-700); 45 / 3 (LP-500)	Minimum pH (continuous)	4
Maximum Operating Pressure (psi / bar)	90 / 6 (LP-350, LP-700); 100 / 7 (LP-500)	Maximum pH (cleaning 30 minutes)	12
Maximum Feed Silt Density Index (SDI)	< 1	Minimum pH (cleaning 30 minutes)	2

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



A. 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.

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

C. Varies with motor manufacturer.

D. Does not include operating space requirements.