

LP-SERIES REVERSE OSMOSIS SYSTEMS

AXEON® LP-Series Reverse Osmosis Systems are engineered for light commercial markets. The LP-Series systems provide a cost-effective solution and are easy to install and maintain. These systems are designed to be wall mounted or free-standing and feature 10" 5-micron sediment and 10-micron carbon pre- and post-filters, slim line filter housings and AXEON RO membranes and membrane housings.

AXEON LP-Series Reverse Osmosis Systems are available in 10" standard or 20" plus models ranging from 350 to 700 gallons per day (GPD) at a line pressure of 70 psi. The LP-500 models include a pump in order to deliver 500 GPD.



LP Plus-700
Reverse Osmosis System

FEATURES

- AXEON TE-3012 500 Membrane Element
- AXEON 3012 Membrane Housing
- AXEON 5-Micron Sediment Pre-Filter
- AXEON 10-Micron Carbon Block Pre-Filter and Post-Filter
- Pentair® Slim Line Filter Housings
- Automatic Shut Off Valve
- Push/Pull Fittings with Locking Safety Clip
- White Powder-Coated Steel Bracket
- Blending Valve (LP-500/500 Plus)
- Cover with Glycerin-Filled Pressure Gauges, Including:
 - Post-Filter Pressure Gauge
 - Working Pressure Gauge
 - Permeate Pressure Gauge
 - HM-Digital® DM-2 Dual TDS Meter

OPTIONS AND UPGRADES

- 10" Floor Stand
- 20" Floor Stand (LP Plus Models)

SPECIFICATIONS

MODELS	LP – 350/350 Plus	LP – 500/500 Plus	LP – 700/700 Plus
Design			
Configuration	Single Pass	Single Pass	Single Pass
Feedwater Source (ppm) ^A	TDS < 500	TDS < 500	TDS < 500
Standard Recovery Rate %	36	46	36
Flow Rates^B			
Permeate Flow (gpm / lpm)	0.24 / 0.91	0.35 / 1.31	0.49 / 1.85
Minimum Feed Flow (gpm / lpm)	0.66 / 2.50	0.76 / 2.88	1.32 / 5.03
Maximum Feed Flow (gpm / lpm)	2.5 / 30.28	2.5 / 30.28	5.00 / 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
Membranes			
Membrane Per Vessel	1	1	1
Membrane Quantity	1	1	2
Membrane Size	3012	3012	3012
Nominal TDS Rejection %	98	98	98
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	N/A	110V, 1PH, 60 Hz, 4A 220V, 1PH, 50 Hz, 4A	N/A
System Dimensions			
Approximate Dimensions ^C L x W x H (in / cm)	12.00 x 17.00 x 32.00 / 30.48 x 43.18 x 81.28	12.00 x 17.00 x 32.00 / 30.48 x 43.18 x 81.28	12.00 x 17.00 x 32.00 / 30.48 x 43.18 x 81.28
Approximate Weight (lbs / kg)	35 / 15.87	41 / 18.60	38 / 17.24

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.

- A. 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.
 B. Product flow and maximum recovery rates are based on feedwater conditions as stated above. Do not exceed recommended permeate flow.
 C. Does not include operating space requirements.

OPERATING LIMITS

Maximum Feed Temperature (°F / °C) ^A	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

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