

LP – Series Reverse Osmosis Systems

FLEXEON LP – Series Reverse Osmosis Systems are engineered in response to the need within the light commercial market for a system without a pump. 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, and feature a 5 – Micron Sediment and 10 – Micron Carbon Pre-Filters, AXEON by Pentek® Slim Line Cartridge Housings and AXEON 500 GPD membranes and membrane housings.

FLEXEON 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 (LP – 350 and LP – 700). The LP – 500 model is also available with a pump to deliver 500 GPD.

The models can also be upgraded with a cover that includes AXEON pressure gauges and a dual TDS meter.



Reverse Osmosis System
with optional cover, pressure gauges and TDS meter

Features

- AXEON TF – 3012 – 500 Membrane Element
- AXEON 3012 Membrane Housing
- AXEON 2.5" x 20" 5 – Micron Sediment Pre-Filter
- AXEON 2.5" x 20" 10 – Micron Carbon Block Pre-Filter and Post-Filter
- AXEON by Pentek® 20" Slim Line Cartridge Housings
- Automatic Shut Off Valve
- John Guest® Push/Pull Fittings with Locking Safety Clip

Options and Upgrades

- 20" Floor Stand
- Cover with AXEON Glycerin-Filled Pressure Gauges Including:
 - Post-Filter Pressure Gauge
 - Operational Pressure Gauge
 - Permeate Pressure Gauge
 - HM Digital® DM – 2 Dual TDS Meter
- Cover without Pressure Gauges
- Blending Valve

FLEXEON®



LP – Series Reverse Osmosis Systems

Product Specifications			
Models	LP – 350	LP – 500	LP – 700
Design			
Configuration	Single Pass	Single Pass	Single Pass
Feedwater Source [†]	TDS <500 ppm	TDS <500 ppm	TDS <500 ppm
Standard Recovery Rate %	40	46	38
Rejection and Flow Rates^{†††}			
Nominal Salt Rejection %	98	98	98
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	1.33 / 5.03
Maximum Feed Flow (gpm / lpm)	8.00 / 30.28	8.00 / 30.28	8.00 / 30.28
Connections			
Feed Connection (in)	3/8 Q.C	3/8 Q.C	3/8 Q.C
Permeate Connection / Holding Tank(in)	3/8 Q.C	3/8 Q.C	3/8 Q.C
Concentrate Connection (in)	3/8 Q.C	3/8 Q.C	3/8 Q.C
Membranes			
Membrane(s) Per Vessel	1	1	1
Membrane Quantity	1	1	2
Membrane Size	3012	3012	3012
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, 50 / 60Hz, 1PH,4A	N/A
Systems Dimensions			
Approximate Dimensions* 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: 550 TDS Filtered (5 – Micron), Dechlorinated, Municipal Feedwater, 65 psi / 4.50 bar Feed Pressure, 150 psi / 10.34 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^{††}

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 ppm
Minimum Ambient Temperature (°F / °C)	40 / 4	Maximum Hardness (gpg)	1
Maximum Feed Pressure (psi / bar)	85 / 6	Maximum pH (Continuous)	11
Minimum Feed Pressure (psi / bar)	45 / 3 (LP– 500); 70 / 5 (LP– 350, LP– 700)	Minimum pH (Continuous)	2
Maximum Operating Pressure (psi / bar)	90 / 6	Maximum pH (Cleaning 30 Minutes)	13
Maximum Feed Silt Density Index (SDI)	<1	Minimum pH (Cleaning 30 Minutes)	1

[†] 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.