

ELP-SERIES REVERSE OSMOSIS SYSTEMS

AXEON® ELP-Series Reverse Osmosis Systems

are engineered in response to the need within the light commercial market for a system without a pump. The **ELP-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, Slim Line Cartridge Housings, 500 GPD membrane and membrane housing.

ELP-Series Reverse Osmosis Systems are available in models ranging from 350 to 700 gallons per day (GPD), at a line pressure of 70 psi (ELP-350 and ELP-700). The ELP-500 model includes a pump to deliver 500 GPD at 100 psi.



ELP-700
Reverse Osmosis System

FEATURES

- Glycerin-Filled Pressure Gauges Including:
 - Post-Filter Pressure Gauge
 - Operational Pressure Gauge
 - Permeate Pressure Gauge
- DM-2 Dual TDS Meter
- TE-3012-500 Membrane Element
- 3012 Membrane Housing
- 2.5" x 20" 5-Micron Sediment Pre-Filter
- 2.5" x 20" 10-Micron Carbon Block Pre-Filter and Post-Filter
- 20" Slim Line Cartridge Housings
- Automatic Shut Off Valve (ELP-350 and ELP-700)
- Push/Pull Fittings with Locking Safety Clip
- Autoflush Valve (ELP-500)

SPECIFICATIONS

MODELS	ELP – 350	ELP – 500	ELP – 700
Design			
Configuration	Single Pass	Single Pass	Single Pass
Feedwater Source ^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 / 1.32	0.48 / 1.82
Minimum Feed Flow (gpm / lpm)	0.66 / 2.50	0.76 / 2.88	1.32 / 5
Connections			
Feed Connection (in)	3/8 QC	3/8 QC	3/8 QC
Permeate Connection (in)	3/8 QC	3/8 QC	3/8 QC
Concentrate Connection (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 Salt Rejection %	98	98	98
Vessels			
Vessel Array	1	1	2 (In Parallel)
Vessel Quantity	1	1	2
Pumps			
Pump Included	No	Yes	No
Pump Type	N/A	Aquatec 5800	N/A
System Electrical			
Standard Voltage and Amp Draw	N/A	110V, 50 / 60HZ, 1PH, 4A	N/A
System Dimensions			
Approximate Dimensions ^C L x W x H (in / cm)	10 x 17.5 x 32 / 25.7 x 44.5 x 81.28	10 x 17.5 x 32 / 25.7 x 44.5 x 81.28	10 x 17.5 x 32 / 25.7 x 44.5 x 81.28
Approximate Weight (lbs / kg)	35 / 18.87	41 / 18.60	38 / 17.24

Warranty Test Conditions: 550 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 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. Does not include operating space requirements.

OPERATING LIMITS^D

Maximum Feed Temperature (°F / °C)	85 / 29	Maximum Turbidity (NTU)	1
Minimum Feed Temperature (°F / °C)	50 / 10	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)	90 / 6 (ELP – 350, ELP – 700); 70 / 5 (ELP – 500)	Maximum pH (continuous)	10
Minimum Feed Pressure (psi / bar)	70 / 5 (ELP – 350, ELP – 700); 45 / 3 (ELP – 500)	Minimum pH (continuous)	4
Maximum Operating Pressure (psi / bar)	90 / 6 (ELP – 350, ELP – 700); 100 / 7 (ELP – 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.