

AXEON T3 – Series Reverse Osmosis Systems

Product Specifications			
Models	T3 – 4140	T3 – 5140	T3 – 6140
Design			
Configuration	Single Pass	Single Pass	Single Pass
Feedwater Source [†]	<45,000 ppm	<45,000 ppm	<45,000 ppm
System Recovery with Recycle %	27 – 48	27 – 48	27 – 48
Rejection and Flow Rates^{†††}			
Nominal Salt Rejection %	99.4	99.4	99.4
Permeate Flow Rate (gpm / lpm)	2.70 / 10.22	3.47 / 13.13	4.80 / 18.17
Concentrate Flow Rate (minimum) (gpm / lpm)	4.00 / 15.00	4.00 / 15.00	4.00 / 15.00
Connections			
Feed Connection (in)	1 FNPT	1 FNPT	1 FNPT
Permeate Connection (in)	1 FNPT	1 FNPT	1 FNPT
Concentrate Connection (in)	1 FNPT	1 FNPT	1 FNPT
Membranes			
Membrane(s) Per Vessel	1	1	1
Membrane Quantity	4	5	6
Membrane Size	4040	4040	4040
Vessels			
Vessel Array	1:1:1:1	1:1:1:1:1	1:1:1:1:1:1
Vessel Quantity	4	5	6
Pumps			
Pump Type	Piston	Piston	Piston
Motor HP	7.5	7.5	7.5
RPM at 60Hz	3600	3600	3600
System Electrical			
Controller	S – 150	S – 150	S – 150
High Voltage Service + Amp Draw	220V, 3PH, 60Hz, 20A**	220V, 3PH, 60Hz, 20A**	220V, 3PH, 60Hz, 20A**
Systems Dimensions			
Approximate Dimensions* L x W x H (in / cm)	60 x 26 x 48.5 / 152.4 x 66.0 x 123.2	60 x 26 x 48.5 / 152.4 x 66.0 x 123.2	60 x 26 x 48.5 / 152.4 x 66.0 x 123.2
Approximate Weight (lbs / kg)	270 / 122.47	300 / 136.08	330 / 149.68

Test Parameters: 35,000 TDS Filtered (5 – Micron), Dechlorinated, Municipal Feedwater, 65 psi / 4.50 bar Feed Pressure, 950 psi / 65.5 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.

** Varies with motor manufacturer.

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)	< 45,000
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)	65 / 4	Minimum pH (Continuous)	2
Minimum Feed Pressure (psi / bar)	45 / 3	Maximum pH (Cleaning 30 Minutes)	13
Maximum Operating Pressure (psi / bar)	1,000 / 69	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.