AXEON R1-SERIES SPEC SHEET

REVERSE OSMOSIS SYSTEM

Link4 CORPORATION

TS-ROR1-01-0621

Product Specifications									
Models	R1-1140	R1-2140	R1-3140	R1-4140	R1-5140	R1-6140	R1-8140	R1-10140	R1-12140
Design									
Configuration	Single Pass	Single Pass	Single Pass	Single Pass	Single Pass	Single Pass	Single Pass	Single Pass	Single Pass
Feed water TDS max (ppm) †	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000
Standard Recovery %	29	45	56	63	68	56	63	68	71
Rejection and Flow Rates †††									
Permeate Flow Rate (gpd / lpd)	1,800 / 6,813	3,600 / 13,627	5,400 / 20,441	7,200 / 27,254	9,000 / 34,068	10,800 / 40,882	14,400 / 54,509	18,000 / 68,137	21,600 / 81,764
Permeate Flow Rate (gpm/ lpm)	1.25 / 4.73	2.50 / 9.46	3.75 / 14.19	5.00 / 18.93	6.25 / 23.66	7.50 / 28.39	10.00 / 37.85	12.50 / 47.32	15.00 / 56.78
Minimum Concentrate Flow Rate (gpm / lpm)	3 / 11.35	2.50 / 9.46	3.75 / 14.19	5.00 / 18.93	6.25 / 23.66	7.50 / 28.39	10.00 / 37.85	12.50 / 47.32	15.00 / 56.78
Concentrate Recycle Flow Rate (gpm / lpm)	Up to 5 / 18.93	Up to 5 / 18.93	Up to 5 / 18.93	Up to 5 / 18.93	Up to 5 / 18.93	Up to 5 / 18.93	Up to 5 / 18.93	Up to 5 / 18.93	Up to 5 / 18.93
Connections									
Feed Connection (in)	1 FN PT	1 FN PT	1 FN PT	1 FN PT	1 FN PT	1 FN PT	1 FN PT	1 FN PT	1 FN PT
Permeate Connection (in)	3/4 FN PT	3/4 FN PT	3/4 FN PT	1 FN PT	1 FN PT	1 FN PT	1 FN PT	1 FN PT	1 FN PT
Concentrate Connection (in)	3/4 FN PT	3/4 FN PT	3/4 FN PT	1 FN PT	1 FN PT	1 FN PT	1 FN PT	1 FN PT	1 FN PT
Membranes									
Membranes (s) Per Vessel	1	1	1	1	1	1	1	1	1
Membrane Quantity	1	2	3	4	5	6	8	10	12
Membrane Size	4040	4040	4040	4040	4040	4040	4040	4040	4040
Nominal TDS Rejection %	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5
Vessels									
Vessel Array	1	1:1	1:1:1	1:1:1:1	1:1:1:1:1	2:2:2	2:2:2:2	2:2:2:2:2	2:2:2:2:2:2
Vessel Quantity	1	2	3	4	5	6	8	10	12
Pumps									
Pump Type	Multi-Stage	Multi-Stage	Multi-Stage	Multi-Stage	Multi-Stage	Multi-Stage	Multi-Stage	Multi-Stage	Multi-Stage
Motor HP	1.5	1.5	1.5	1.5	3	3	3	3	3
RPM at 60 Hz	3450	3450	3450	3450	3450	3450	3450	3450	3450
System Electrical									
Standard Voltage + Amp Draw	220v, 60 Hz 1PH, 8.8A **	220v, 60 Hz 1PH, 8.8A **	220v, 60 Hz 1PH, 8.8A **	220v, 60 Hz 1PH, 8.8A **	220v, 60 Hz 1PH, 16A **	220v, 60 Hz 1PH, 16A **	220v, 60 Hz 1PH, 16A **	220v, 60 Hz 1PH, 16A **	220v, 60 Hz 1PH, 16A **
Approximate Dimensions * L x W x H (in / cm)	26 x 26 x 60 73.66 x 66.04 x 154.94	26 x 26 x 60 73.66 x 66.04 x 154.94	26 x 26 x 60 73.66 x 66.04 x 154.94	26 x 26 x 60 73.66 x 66.04 x 154.94	26 x 26 x 60 73.66 x 66.04 x 154.94	26 x 26 x 60 73.66 x 66.04 x 154.94	26 x 50 x 60 83.82 x 127 x 154.94	26 x 50 x 60 83.82 x 127 x 154.94	26 x 50 x 60 83.82 x 127 x 154.94
Approximate Weight (Lbs / kg)	250 / 113.40	290 / 131.54	330 / 149.68	370 / 167.83	430 / 195.05	470 / 213.19	510 / 231.33	550 / 249.48	590 / 267.62

Test Parameters: 550 TDS Filtered (5-Micron), Dechlorinated, Municipal feed-water, 65 psi, / 4.50 bar feed pressure, 80 psi / 5.5 bar operating pressure, 77F / 25C, 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 ††

Maximum Feed Temperature (°F / °C)	85 / 29	Maximum Free Chlorine (ppm)	0
Minimum Feed Temperature (°F / °C)	40 / 4	Maximum TDS (ppm)	2,000
Maximum Ambient Temperature (°F / °C)	120 49	Maximum Hardness (gpg)	0
Minimum Ambient Temperature (°F / °C)	40 / 4	Maximum pH (Continuous)	11
Maximum Feed Pressure (psi / bar)	85 / 6	Minimum pH (Continuous)	2
Minimum Feed Pressure (psi / bar)	45 / 3	Maximum pH (Cleaning 30 minutes)	13
Maximum Pressure (psi / bar)	200 / 14	Minimum pH (Cleaning 30 minutes)	1
Maximum Feed Silt Density Index (SDI)	<3	Maximum Turbidity NTU	1

† Low temperature and feed-water 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 feed-water conditions as stated above. Do not exceed recommended permeate flow. Design conditions are not identical to test conditions, please contact the manufacturer or your supplier for more information.

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