AXEON

S3 – Series Reverse Osmosis Systems

AXEON S3 – Series Reverse

Osmosis Systems are engineered and manufactured for seawater applications specifically tailored for capacities ranging from 600 to 2,200 gallons per day. The S3 – Series Reverse Osmosis Systems feature a unique and innovative compact design that allows for easy installation in any size area.



Reverse Osmosis System

The S3 – Series is also equipped with premium components, which include a 316L SS plunger–type pump for high performance, a high grade corrosion resistant aluminum frame, a programmable computer controller with many built–in features and fiberglass membrane housings for durability.

Benefits

- Fully Equipped and Customizable
- High Quality Components
- Individually Tested and Preserved
- Low Operating and Maintenance Costs

- Easy Maintenance and Servicing
- Pre–Plumbed, Wired and Assembled
- 1-Year Limited Warranty







Features

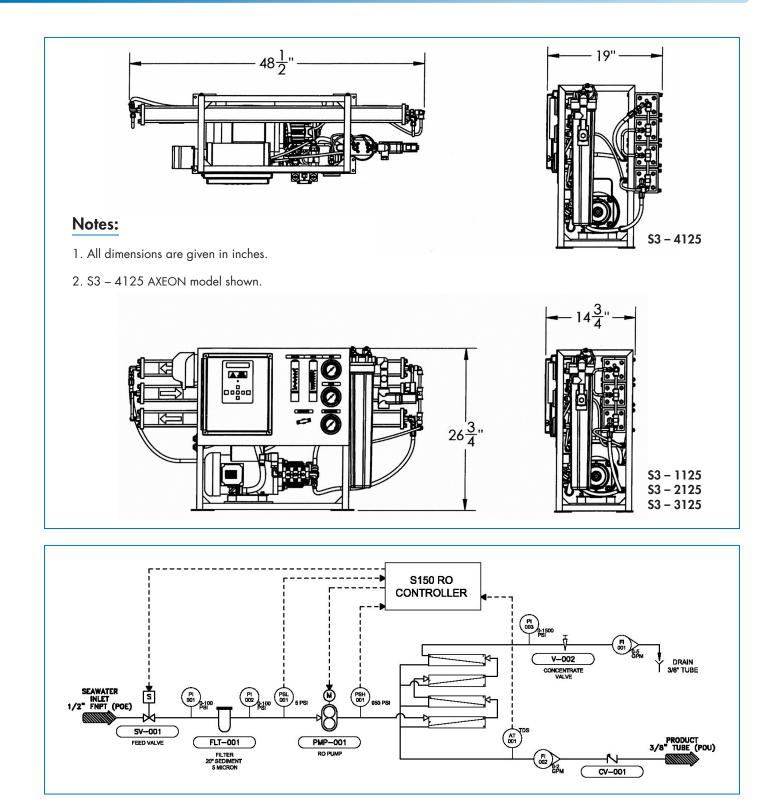
- S 150 Computer Controller
- LCD Backlit Display
- Pre-Treatment Lockout
- Tank Level Input
- Pressure Monitoring and Alarm
- TDS Monitoring
- Hour Meter
- Feed Flush
- High Rejection Seawater Membranes
- AXEON FRP Series Membrane Housings
- AXEON 5 Micron Sediment Pre–Filter
- AXEON by Pentek[®] Single O-Ring Cartridge Housing
- Permeate and Concentrate Flow Meters

- 0 100 psi 316L SS Glycerin–Filled Filter In Pressure Gauge
- 0 100 psi 316L SS Glycerin–Filled Pre–Filter Out Pressure Gauge
- 0 1500 psi 316L SS Glycerin–Filled Concentrate Pressure Gauge
- Plast-O-Matic Feed Solenoid Valve
- AXEON 316L Stainless Steel Needle Valve
- 316L SS Feed Low Pressure Switch
- 316L SS High Pressure Pump Switch
- CAT[®] 316L High Pressure Pump
- TEFC Motor with Thermal Motor Protection
- Chemical Pump Outlet
- Powder Coated Aluminum Frame
- High Pressure 316L Stainless Steel Tubing and Fittings
- High Pressure Hose with Reusable SS Fittings

Options and Upgrades

- Booster Pump
- High Pressure Tank Switch
- Permeate Divert Valve
- Fresh Water Flush
- Ultraviolet Light
- Wooden Shipping Crate

AXEON Naming Matrix					
	S3 4	1	25		
V-SE	RIES MODEL				
S3	Sea Water Model				
	JSING QUANTITY DESIGNATION				
1	1 Vessel	_			
2	2 Vessel				
3	3 Vessel				
4	4 Vesse				
ΜΕΛ	ABRANE QUANTITY PER HOUSING				
1	1 Membrane				
2.5	INCH MEMBRANE DIAMETER				



Array Specifications

Model	Vessel Array	Vessel Size	Vessel Quantity	Membrane Size	Membrane Quantity
\$3 - 1125	1	2540	1	2540	1
\$3 - 2125	1:1	2540	2	2540	2
\$3 - 3125	1:1:1	2540	3	2540	3
\$3 - 4125	1:1:1:1	2540	4	2540	4

AXEON S3 – Series Reverse Osmosis Systems

Product Specifications					
Models	S3 – 1125	S3 – 2125	S3 – 3125	S3 - 4125	
Design				•	
Configuration	Single Pass	Single Pass	Single Pass	Single Pass	
Feedwater Source [†]	TDS <35,000 ppm	TDS <35,000 ppm	TDS <35,000 ppm	TDS <35,000 ppm	
Standard Recovery Rate %	10	20	25	36	
Rejection and Flow Rates ^{†††}					
Nominal Salt Rejection %	99	99	99	99	
Permeate Flow (gpm / lpm)	0.41 / 1.55	0.83 / 3.14	1.25 / 4.73	1.52 / 5.75	
Minimum Feed Flow (gpm / lpm)	4.20 / 15.90	4.20 / 15.90	4.20 / 15.90	4.20 / 15.90	
Connections					
Feed FNPT (in)	1/2	1/2	1/2	1/2	
Permeate Tubing (in)	3/8	3/8	3/8	3/8	
Concentrate Tubing (in)	3/8	3/8	3/8	3/8	
Membranes					
Membrane Per Vessel	1	1	1	1	
Membrane Quantity	1	2	3	4	
Membrane Size	2540	2540	2540	2540	
Vessels		·	·		
Vessel Array	1	1:1	1:1:1	1:1:1:1	
Vessel Quantity	1	2	3	4	
Pumps		1	'		
Pump Type	Plunger	Plunger	Plunger	Plunger	
Motor (HP / kw)	2.50 / 1.85	2.50 / 1.85	2.50 / 1.85	2.50 / 1.85	
RPM @ 60Hz (50 Hz)	1725 / 1450	1725 / 1450	1725 / 1450	1725 / 1450	
System Electrical					
Standard Voltage + Amp Draw	220VAC, 1PH, 11.9A**	220VAC, 1PH, 11.9A**	220VAC, 1PH, 11.9A**	220VAC, 1PH, 11.9A**	
Systems Dimensions			·	·	
Approximate Dimensions*	48 X 24 X 18.5 /				
L x W x H (in / cm)	122 X 61 X 47				
Approximate Weight (lbs / kg)	145 / 65.77	155 / 70.31	165 / 74.84	175 / 79.38	

Test Parameters: 35,000 TDS Filtered (5 – Micron), Dechlorinated, Municipal Feedwater, 45 psi / 3.1 bar Feed Pressure, 850 psi / 58.61 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^{††}

Maximum Feed Temperature (°F / °C)	85 / 29	Maximum Turbidity (NTU)	<1
Minimum Feed Temperature (°F / °C)	41 / 5	Maximum Free Chlorine (ppm)	0
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)	60 / 4	Minimum pH (Continuous)	2
Minimum Feed Pressure (psi / bar)	15 / 1	Maximum pH (Cleaning 30 Minutes)	13
Maximum Operating Pressure (psi / bar)	1000 / 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.

the Product flow and maximum recovery rates are based on feedwater conditions as stated above. Do not exceed recommended permeate flow.

FOR MORE INFORMATION CONTACT:





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