

# Commercial Sea Water RO Systems

Capacity: 380 to 7,600 GPD

**SWC**  
SERIES

Pure Aqua, Inc. manufactures a full line of seawater desalinators designed for heavy duty service in marine applications where quality and dependable performance are key. Our SWC series is available with capacities ranging from 380 GPD to 7,600 GPD.



SW-3.0K-304



SW-5.6K-604

## Standard Features

- Powder coated carbon steel frame
- 2-1/2" or 4" TFC spiral wound membranes
- Stainless steel multi-stage pump with TEFC motor
- FRP membrane housings
- 5 micron cartridge prefilter
- 460V/3ph/60Hz power requirement
- Microprocessor control panel
- Programmable time delay and set points
- LCD screen
- Motor starter
- NEMA 12 enclosure
- Low pressure switch
- High pressure switch
- Liquid filled pressure gauges
- Permeate conductivity monitor
- Permeate & concentrate flow meters

## Available Options

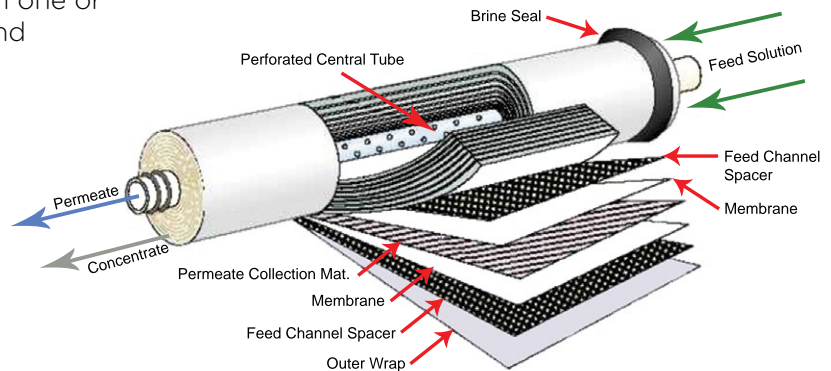
- Remote monitoring
- Feed water conductivity monitor
- Membrane cleaning skid
- Automatic hourly flush
- Feed/permeate blending
- Export crating
- 220V or 380-415V/3ph/50 or 60Hz
- Product tank level switch
- Feed pH controller with sensor
- Feed ORP controller with sensor
- Water and hour meters
- Chemical dosing systems
- Media prefiltration systems
- Ozonation and UV sterilization systems
- Skid mounted with pre and post treatment

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The spiral membrane is constructed from one or more membrane envelopes wound around a perforated central tube. The permeate passes through the membrane into the envelope and spirals inward to the central tube for collection. The layers of the membrane envelope are detailed in the diagram to the right.



## Operation Specifications

- Max. feed water temperature: 42°C
- Feed water pressure: 40 to 80 psi
- Operating pressure: 700 to 1,000 psi
- Hydrogen Sulfide must be removed
- Turbidity should be removed
- Max. iron content: 0.05 ppm
- Feed water TDS: 10,000-42,000 ppm
- Equipment upgrade for TDS up to 50,000 ppm
- Antiscalant dosing is required
- pH tolerance range: 3-11
- Biological or organic content must be removed

Model #	Permeate Flow Rate		Membranes		Motor Rating HP at 42,000 ppm		Approx. Weight (lbs)	Dimensions L"xW"xH"
	GPD	M <sup>3</sup> /D	Size	Qty	60Hz	50Hz		
SW-0.38K-125	380	1.4	2.5"x40"	1	2	2	220	51x21x30
SW-0.70K-225	700	2.7	2.5"x40"	2	2	3	230	51x21x30
SW-1.0K-325	1,000	3.8	2.5"x40"	3	3	3	250	51x21x30
SW-1.3K-425	1,300	5	2.5"x40"	4	3	3	290	51x21x30
SW-1.1K-104	1,100	4	4"x40"	1	5	5	395	61x34x50
SW-2.1K-204	2,100	8	4"x40"	2	7.5	7.5	450	61x34x50
SW-3.0K-304	3,000	11	4"x40"	3	7.5	7.5	550	61x34x50
SW-3.8K-404	3,800	14	4"x40"	4	7.5	7.5	650	61x34x50
SW-4.7K-504	4,700	18	4"x40"	5	10	10	750	61x34x50
SW-5.6K-604	5,600	21	4"x40"	6	10	10	850	61x34x50
SW-6.0K-704	6,000	23	4"x40"	7	10	10	950	61x34x50
SW-7.6K-804	7,600	29	4"x40"	8	15	15	1,050	61x34x50

Pure Aqua also supplies: Custom Engineered Solutions, Multimedia Pretreatment, Activated Carbon Pretreatment, Water Conditioning, Chemical Dosing Systems, Ultraviolet (UV) Sterilizers and Ozonation Systems.

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