

# Commercial Seawater RO Systems

Capacity: 380 to 10,000 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 10,000 GPD.



SW-10K-1004



SW-5.0K-504

## Standard Features

- ◆ Powder coated carbon steel frame
- ◆ 2-1/2" or 4" TFC spiral wound membranes
- ◆ Stainless steel high pressure pump with TEFC motor
- ◆ FRP membrane housings
- ◆ 25 and 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

- ◆ Feed booster pump
- ◆ Remote monitoring
- ◆ Stainless steel pressure gauges w/diaphragm seal
- ◆ Membrane cleaning skid
- ◆ Fresh water flush
- ◆ Permeate diversion
- ◆ 220V or 380-415V/3ph/50 or 60Hz
- ◆ Product tank level switch
- ◆ pH controller with sensor
- ◆ ORP controller with sensor
- ◆ Digital flow meters
- ◆ PLC control panel
- ◆ Chemical dosing systems
- ◆ Media prefiltration systems
- ◆ Calcite post filter
- ◆ UV sterilization systems
- ◆ Skid mounted with pre and post treatment
- ◆ Export crating

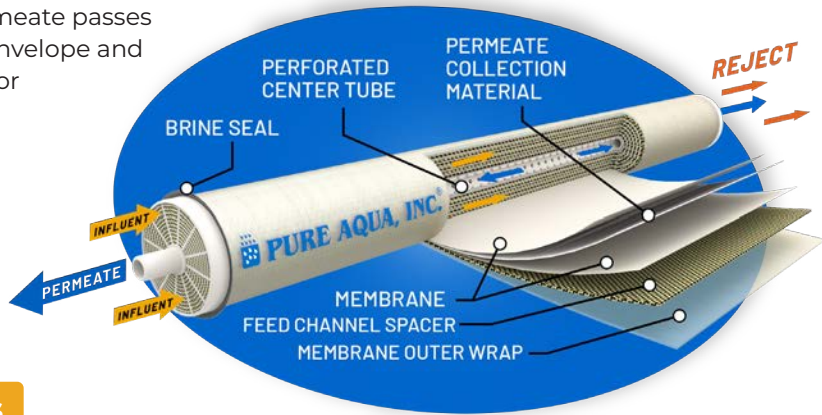
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The spiral membrane is constructed from one or more membrane envelopes wound around a perforated central tube. The permeate passes through the membrane into the envelope and spirals inward to the central tube for collection.

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
- H<sub>2</sub>S must be removed
- Turbidity must 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-0.75K-225	750	2.8	2.5"x40"	2	2	2	230	51x21x30
SW-1.1K-325	1,100	4.2	2.5"x40"	3	2	2	250	51x21x30
SW-1.5K-425	1,500	5.7	2.5"x40"	4	3	3	290	51x21x30
SW-1.0K-104	1,000	3.8	4"x40"	1	3	5	395	61x34x42
SW-2.0K-204	2,000	7.8	4"x40"	2	5	5	450	61x34x42
SW-3.0K-304	3,000	11.3	4"x40"	3	5	5	550	61x34x42
SW-4.0K-404	4,000	15.1	4"x40"	4	7.5	7.5	650	61x34x42
SW-5.0K-504	5,000	18.9	4"x40"	5	7.5	7.5	750	61x34x42
SW-6.0K-604	6,000	22.7	4"x40"	6	7.5	7.5	850	61x34x56
SW-7.0K-704	7,000	26.5	4"x40"	7	10	10	950	61x34x56
SW-8.0K-804	8,000	30.3	4"x40"	8	10	10	1,050	61x34x61
SW-10K-1004	10,000	37.9	4"x40"	10	15	15	1,150	61x34x61

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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