

# Commercial water maker

**SWC**  
**SERIES**

## 380 to 7600 GPD Reverse Osmosis Systems

Pure Aqua, Inc. manufactures a full line of seawater desalinators designed for heavy or continuous 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



### Standard Features

- ◆ 5 micron prefilter
- ◆ Premium quality corrosion resistant high pressure pump with motor protected by a precision engineered "pulsation dampener" on 7.5 hp and higher models
- ◆ High quality, glycerin filled 316 SS pressure gauges
- ◆ Product & Reject flow meters
- ◆ Epoxy coated steel frame
- ◆ TFC spiral wound membranes
- ◆ FRP membrane housing
- ◆ 220V or 460/3Ph/60Hz
- ◆ Stainless steel pressure regulating valve, for reject stream
- ◆ High pressure tubing
- ◆ Automatic feed water shut off valve
- ◆ Easy access control panel

### Applications

- ◆ Cruise Ships
- ◆ Cargo Ships
- ◆ Oil Tankers
- ◆ Work Boats
- ◆ Fishing Boats
- ◆ Offshore Rigs
- ◆ Mega-Yachts

### Available Options

- ◆ Booster Pump
- ◆ 380-415V/3Ph/50Hz
- ◆ 220V/1Ph/50Hz
- ◆ PLC controller
- ◆ Product tank level switch
- ◆ pH meter and sensor
- ◆ High pressure switch
- ◆ Product conductivity meter
- ◆ Hour meter
- ◆ Cleaning skid
- ◆ Oil/Water separator
- ◆ 50 micron bag filter for open intake
- ◆ Prefilter pressure gauge
- ◆ Carbon prefilter
- ◆ multimedia prefilter
- ◆ Pre or post UV sterilizer
- ◆ Custom designed units
- ◆ Export crating
- ◆ Stainless steel discharge pulsation dampener
- ◆ Chemical dosing units

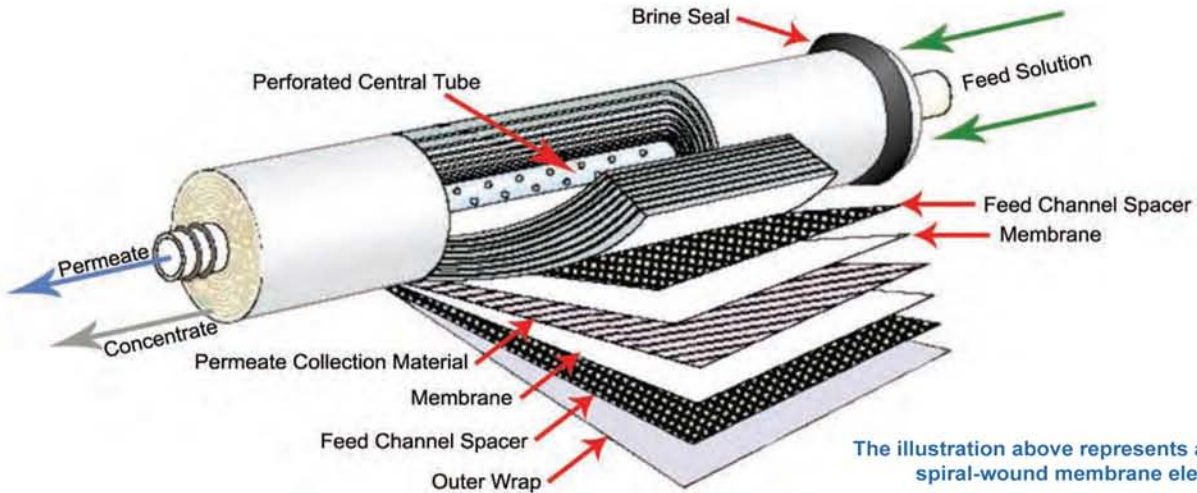
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## How the Membrane System Works

The spiral membrane is constructed of 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 illustration above represents a simplified spiral-wound membrane element

We also supply the following:

- Feed water temperature = 95° F Max.
- Feed water pressure = 40 to 80 psi
- Turbidity should be removed
- Maximum operating pressure: 1,000 psi
- Iron tolerance: 0.05 ppm Max.
- Feed water TDS: 42,000 ppm, or higher as an option
- pH range: 3-11
- Chlorine and other oxidants should be removed
- No bacteriological or organic content
- Membrane rejection: 92-95%

Model No.	Capacity @ 42,000mg/L		Recovery	HP	Membranes		Dimensions	Weight Lbs
	GPD	M3/Day			Size (DxL)	Qty		
<b>Commercial Water Makers</b>								
SW-0.38K-125	380	1.4	10%	2	2.5" x 40"	1	51X17X15	220
SW-0.70K-225	700	2.6	20%	2	2.5" x 40"	2	51X17X15	230
SW-1.0K-325	1,000	3.8	20%	3	2.5" x 40"	3	51X17X28	250
SW-1.3K-425	1,300	4.9	26%	3	2.5" x 40"	4	51X17X28	290
SW-1.1K-104	1,100	4.2	15%	5	4"x40"	1	61X34X50	395
SW-2.1K-204	2,150	8.1	15%	8	4"x40"	2	61X34X50	500
SW-3.0K-304	3,000	11.4	21%	8	4"x40"	3	61X34X50	360
SW-3.8K-404	3,800	14.4	26%	8	4"x40"	4	61X34X50	500
SW-4.7K-504	4,700	17.8	23%	10	4"x40"	5	61X34X50	750
SW-5.6K-604	5,500	20.8	27%	10	4"x40"	6	61X34X50	850
SW-6.0K-704	6,000	22.7	30%	10	4"x40"	7	61X34X50	970
SW-7.6K-804	7,600	28.8	26%	15	4"x40"	8	61X34X50	1,050

All specifications are subject to change without notice.

We also supply the following:

- Multi-Media Pretreatment
- Carbon Pretreatment
- Water Conditioning
- Chemical Metering Pumps
- Ultra-Violet Sterilizers
- Ozone Sterilization

# Pure Aqua, Inc.

**Water Treatment and Reverse Osmosis Systems**

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