

Industrial Water Maker

SWI
SERIES

8,000 to 265,000 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 SWI series is available with capacities ranging from 8,000 GPD to 265,000 GPD



Standard Features

- ◆ Heavy duty 5 micron sement prefilter
- ◆ Premium quality nickel-brass-bronze or sea water resistant SS pump, protected by a precision engineered pulsation-dampener
- ◆ High quality, glycerin-filled 316 SS pressure gauges
- ◆ Product & Reject flow meters
- ◆ TFC spiral wound membranes
- ◆ FRP membrane housings
- ◆ 460V/3Ph/60Hz
- ◆ Low & High pressure switches
- ◆ Permeate TDS monitor
- ◆ PVC low pressure piping
- ◆ Stainless steel high pressure piping
- ◆ Stainless steel throttling valve for reject stream
- ◆ Automatic feed shut off valve
- ◆ Energy recovery on model: SW-63K-4480 and larger
- ◆ Epoxy coated steel frame
- ◆ Microprocessor/PLC based control panel

Available Option

- ◆ Booster pump
- ◆ 380-415V/3Ph/50Hz power supply
- ◆ Product tank level switch
- ◆ pH meter and sensor
- ◆ Hour meter
- ◆ Cleaning skid
- ◆ Oil/water separator
- ◆ 50 micron bag filter for open intake
- ◆ Prefilter pressure gauges
- ◆ Carbon prefilter
- ◆ Multimedia prefilter
- ◆ Pre or post UV sterilizer
- ◆ Custom designed units
- ◆ Export crating
- ◆ Stainless steel discharge pulsationdampener
- ◆ Chemical dosing units

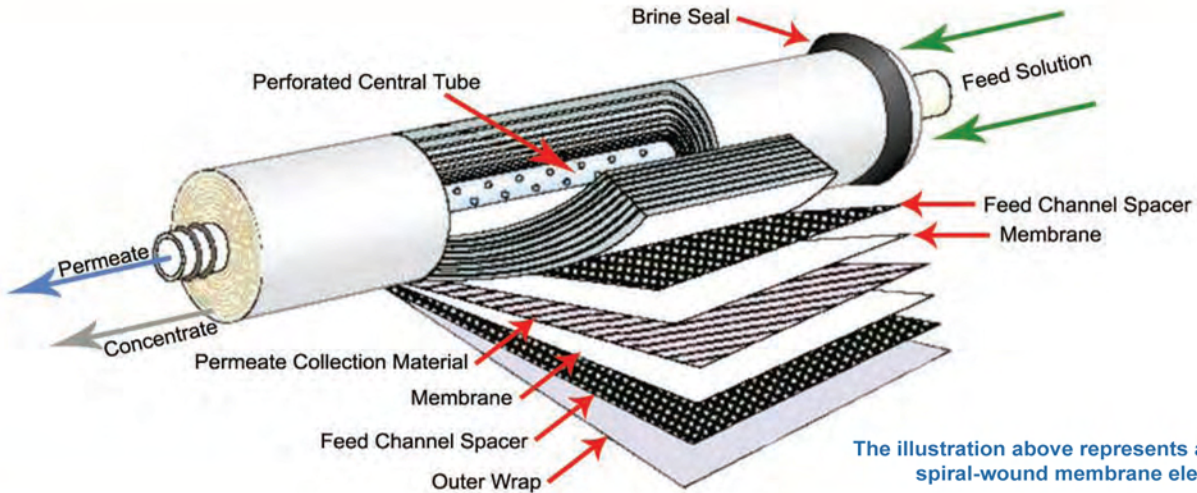
Standard Features

- ◆ Cargo Ships
- ◆ Oil Tankers
- ◆ Work Boats
- ◆ Hotels & Resorts
- ◆ Villages & Citie
- ◆ Seaside Villas
- ◆ Coastal Developments
- ◆ Island-Based Businesses
- ◆ Fish Processing Plants
- ◆ Seaside Work Sites

 **Pure Aqua, Inc**

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: 1000 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: 95-99%

| Model No. | Capacity at 42,000ppm | | Qty of 8" Membranes | Feed Water TDS | HP | Dimensions | Weight Lbs |
|----------------------------------------------------|-----------------------|---------|---------------------|----------------|-----|--------------|------------|
| | M3/ Day | GPD | | | | | |
| Industrial Seawater Reverse Osmosis Systems | | | | | | | |
| SW-8.0K-1280 | 30 | 8,000 | 2 | 42,000 PPM | 15 | 195"X42"X72" | 2,600 |
| SW-12K-1380 | 45 | 12,000 | 3 | 42,000 PPM | 20 | 195"X42"X72" | 2,600 |
| SW-16K-1480 | 61 | 16,000 | 4 | 42,000 PPM | 25 | 195"X60"X72" | 2,700 |
| SW-24K-2380 | 91 | 24,000 | 6 | 42,000 PPM | 40 | 195"X60"X72" | 3,200 |
| SW-32K-2480 | 121 | 32,000 | 8 | 42,000 PPM | 60 | 195"X72"X72" | 4,200 |
| SW-48K-2680 | 182 | 48,000 | 12 | 42,000 PPM | 75 | 195"X72"X72" | 5,600 |
| SW-64K-4480 | 242 | 64,000 | 16 | 42,000 PPM | 60 | 195"X72"X72" | 6,500 |
| SW-72K-3680 | 273 | 72,000 | 18 | 42,000 PPM | 60 | 368"X50"X80" | 12,000 |
| SW-96K-4680 | 363 | 96,000 | 24 | 42,000 PPM | 85 | 368"X50"X80" | 13,000 |
| SW-112K-4780 | 424 | 112,000 | 28 | 42,000 PPM | 100 | 475"X65"X80" | 14,000 |
| SW-136K-5680 | 515 | 136,000 | 34 | 42,000 PPM | 110 | 475"X65"X80" | 15,000 |
| SW-168K-6780 | 636 | 168,000 | 42 | 42,000 PPM | 120 | 475"X65"X80" | 17,500 |
| SW-196K-7780 | 742 | 196,000 | 49 | 42,000 PPM | 130 | 475"X65"X80" | 17,500 |
| SW-224K-8780 | 848 | 224,000 | 56 | 42,000 PPM | 160 | 475"X65"X79" | 17,200 |
| SW-252K-9780 | 954 | 252,000 | 63 | 42,000 PPM | 175 | 475"X65"X79" | 18,000 |
| SW-280K-10780 | 1060 | 280,000 | 70 | 42,000 PPM | 190 | 475"X65"X79" | 19,000 |
| SW-317K-12780 | 1200 | 317,000 | 84 | 42,000 PPM | 190 | 475"X65"X80" | 21,000 |
| SW-420K-15780 | 1590 | 420,000 | 105 | 42,000 PPM | 290 | 475"X65"X80" | 21,000 |
| SW-500K-18780 | 1893 | 500,000 | 126 | 42,000 PPM | 320 | 475"X65"X81" | 22,000 |

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