

**SPECIFICATIONS – SW8
COMMERCIAL DUTY REVERSE OSMOSIS
SEAWATER DESALINATION SYSTEMS**

11,000 TO 31,600 GALLONS DAY

MODEL #	GPD	LPH	TPD	FEED FLOW GPM	WEIGHT	QTY. MEMBRANES
SW811K	11,000	1723	42.0	32	3,500 LBS.	3
SW814K	14,500	2272	55.0	32	4,000 LBS.	4
SW821K	21,000	3290	80.0	42	4,400 LBS.	5
SW826K	26,400	4136	100.0	52	4,800 LBS.	6
SW831K	31,600	4963	120.0	60	5,400 LBS.	10





SW8
11,000 – 31,600 GALLONS/DAY
REVERSE OSMOSIS
SEAWATER DESALINATION SYSTEMS
STANDARD SYSTEM FEATURES

Multimedia Filter

- ✓ Fiberglass tank prefilter with backwash valve to reduce particles to 25 micron

Prefiltration (standard)

- ✓ 20 & 5 micron cartridge prefilters to remove particulate matter.
- ✓ Filter housing designed for easy filter change.

Booster Pump

- ✓ 316 SS booster pump of centrifugal design.
- ✓ Ensures positive water pressure to unit.
- ✓ Close coupled to totally enclosed motor to withstand saltwater environment.

High Pressure Pump (standard)

- ✓ SS high pressure pump driven by TEFC motor.
- ✓ Pump head placed for easy service and inspection.
- ✓ Ceramic plunger designed with 316 SS for long term durability.
- ✓ Pulsation dampener to extend life, reduce noise and vibration

Reverse Osmosis Membrane – Pressure Vessel Assembly

- ✓ Spiral wound, polyamide, thin film composite reverse osmosis membrane representing state of the art technology.
- ✓ High water purity with membrane rejection of 99.6%.
- ✓ Membrane is designed for long life with easy cleaning.
- ✓ Membrane is enclosed in fiberglass pressure vessel with ratings to 1,200 psi.
- ✓ Easy to change end plug assembly with long life and durability.
- ✓ SS high pressure fittings.
- ✓ High pressure components rated at 2 times maximum operating pressure for safety.
- ✓ Test taps for sampling membrane product water quality.

Instrumentation & Protective Features

- ✓ Touch screen easy to operate PLC.
- ✓ Unit has multiple fault messages.
- ✓ Remote control panel available (optional).
- ✓ Easy to read gauges including product flowmeter and low and high pressure gauges.
- ✓ On/Off switches with built in motor overload protectors.
- ✓ Totalizing hour meter.
- ✓ High pressure valve.
- ✓ Salinity controller to automatically direct product water to waste when non-potable or to tank when potable by means of an actuated valve.
- ✓ High quality water indicator lights.
- ✓ All water tight connections (NEMA 4).
- ✓ Splash resistant electrical enclosures (NEMA 4).
- ✓ Brine check valve ensures only first quality water to storage tank.
- ✓ Glycerine filled high and low pressure gauges for long life.
- ✓ Remote monitoring capability via internet.

Frame

- ✓ Coated frame for lifetime of durability and corrosion resistance.
- ✓ Open design for easy maintenance.
- ✓ Unitized in integrated components for easy maintenance.
- ✓ Secure mounting tabs/holes for stability.
- ✓ Also available in modular format.

Connections

- ✓ Food grade tubing for contact with potable water.
- ✓ Stainless fasteners resist corrosion.

Membrane Care

- ✓ Automatic backflush system to supply fresh water to membranes upon shutdown.
- ✓ Membrane cleaning system valving and controls to facilitate chemical cleaning of membranes.

SPECIFICATIONS

Minimum Salt Rejection:	99.6%
Feed Water Pressure:	Minimum – Flooded, Maximum – 25 psi
Max. Operating Pressure:	1,200 psi
Feed Water Temperature:	Min. - 0°C (32°F) Max. 45°C (113°F)
Max. Feed Water Salinity:	45,000 ppm TDS
Connections:	2" Flange Feed, 2" Flange Waste, 1" Flange Product
Electrical:	To customer specifications (NEMA 4)

DIMENSIONS

SW811K, 14K, 21K Unit:	96" L x 57" W x 66" H
SW811K, 14K, 21K Crate:	116" L x 73" W x 76" H
SW826K, 31K Unit:	132" L x 57" W x 66" H
SW826K, 31K Crate:	152" L x 73" W x 76" H

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