

SPECIFICATIONS – SW7 COMMERCIAL DUTY REVERSE OSMOSIS SEAWATER DESALINATION SYSTEMS

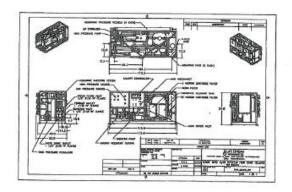
$6,000~\mathrm{TO}~8,000~\mathrm{GALLONS}~\mathrm{DAY}$

PRODUCT OUTPUT

MODEL#	GPD	GPH	LPH	TPD	QTY. MEMBRANES
SW4078	500	20.8	78	1.9	1
SW4126	800	33.3	126	3.0	2
SW4190	1200	50.0	190	4.5	3
SW4236	1500	62.5	236	5.7	4
SW4282	1800	80.5	282	6.5	5
					Mambrana siza is 2 1/3" diamet

Membrane size is 2 ½" diameter x 40" length





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6,000 – 8,000 GALLONS/DAY REVERSE OSMOSIS SEAWATER DESALINATION SYSTEMS STANDARD SYSTEM FEATURES

Media Filter (optional)

- Fiberglass tank prefilter with manual backwash valve to reduce particles to 25 micron
- ✓ Birm multimedia filter available to remove iron contamination.

Prefiltration (standard)

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

Booster Pump (standard)

- ✓ Corrosion resistant 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)

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

Reverse Osmosis Membrane – Pressure Vessel Assembly (standard)

- 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 1,000 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 to sample water from each pressure vessel.

Instrumentation & Protective Features

- Easy to read gauges including product flowmeter, brine flowmeter and low and high pressure gauges.
- ✓ Start/Stop switch with built in motor overload protectors.
- ✓ Touch screen, easy to operate PLC.
- ✓ Totalizing hour meter.
- ✓ High pressure regulating valve.
- Salinity controller to automatically direct product water overboard when non-potable or to tank when potable by means of an actuated valve.
- ✓ All water tight electrical connections.
- Splash resistant electrical enclosures.
- Brine check valves ensures only first quality water to storage tank.
- ✓ Glycerine filled high and low pressure gauges for long life.
- ✓ Remote monitoring capability via internet.

Frame

- ✓ Powder coated fabricated frame.
- ✓ Open design for easy maintenance.
- Unitized in integrated components for easy maintenance or available as a modular system.
- ✓ Secure mounting tabs/holes for stability.

Connections

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

Membrane Care (optional)

- Automatic backflush system to supply freshwater 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: Min. – Flooded, Max – 30 psi

Max. Operating Pressure: 1,000 psi

Feed Water Temperature: Min. - 0°C (32°F) Max. 45°C (113°F)

Max. Feed Water Salinity: 45,000 ppm TDS

Electrical: To customer specifications (NEMA 4)

Feed Flow: 20 GPM (74 LPM)

Connections: 1 ½" Flange Inlet & Brine, 1" Flange

Product

HP Pump: 20 HP

DIMENSIONS

Main Unit (Modular): 54" L x 34" W x 23" H

Membranes (Modular): 6" diameter x 98" L

Main Unit (Skid): 99" L x 51" W x 40" H

Booster Pump: 11" diameter x 20" L

Pre-filters: 8" diameter x 25" H

Standard Crate: 66" L x 48" W x 34" H &

Long Tube (Modular)

Approximate Dry Wt.: 1,800 lbs. (818 kg)

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