

**SPECIFICATIONS – SW4
COMMERCIAL DUTY REVERSE OSMOSIS
SEAWATER DESALINATION SYSTEMS**

500 TO 1800 GALLONS 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

Membrane size is 2 ½" diameter
x 40" length





SW4
500 – 1,800 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)

- ✓ 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)

- ✓ Triplex high pressure pump driven by TEFC motor.
- ✓ Pump head placed for easy service and inspection.
- ✓ Ceramic plunger designed with SS alloy 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 1000 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.
- ✓ Membrane isolation manifold for sampling each membrane product water individually. (optional)

Instrumentation & Protective Features

- ✓ Easy to read gauges including product flowmeter and brine and low and high pressure gauges.
- ✓ On/Off switch with built in motor overload protectors.
- ✓ 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 a solenoid valve.
- ✓ High water quality indicator lights.
- ✓ All water tight electrical connections. (NEMA 4)
- ✓ Splash resistant electrical enclosures.
- ✓ Brine check valves ensures only first quality water to storage tank.
- ✓ Glycerine filled 316 SS high and low pressure gauges for long life.
- ✓ Touch screen easy to operate PLC
- ✓ Remote monitoring capability via internet

Frame

- ✓ Stainless steel electropolished cabinet.
- ✓ Open design for easy maintenance.
- ✓ Unitized in integrated components for easy maintenance.
- ✓ Secure mounting.

Connections

- ✓ Food grade tubing for contact with potable water.

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:	99.7%
Feed Water Pressure:	Min. – Flooded, Max – 30 psi
Max. Operating Pressure:	1000 psi
Feed Water Temperature:	Min. - 2°C (34°F) Max. 45°C (113°F)
Max. Feed Water Salinity:	42,000 ppm TDS
Electrical:	NEMA 4

Feed Flow: 4.1 Gallons/Minute

DIMENSIONS

Main Unit:	52" L x 29" W x 20" H
Booster Pump:	10" diameter x 18" L
Pre-filters (2):	24" L x 9" W x 15" H
Standard Crate:	62" L x 38" W x 32" H
Approx. Dry Weight:	410 lbs. (190 kg)
Connections:	1" FPT Inlet & Waste, 3 ½" FPT Prod.

P.O. Box 634, Huntington Beach, CA 92648 USA
Toll-Free: 800-468-5426 ♦ Tel: 714-375-6583 ♦ Fax: 714-375-6586
Email: Lifestream22@aol.com ♦ Website: www.LifestreamWater.com