

**SPECIFICATIONS – SW6
COMMERCIAL DUTY REVERSE OSMOSIS
SEAWATER DESALINATION SYSTEMS**

2,600 to 4,800 GALLONS DAY

PRODUCT OUTPUT

MODEL #	GPD	GPH	LPH	TPD	QTY. MEMBRANES	FEED FLOW	POWER (Kw)	MOTOR SIZE
SW6410	2600	108	410	10	2	9/30	5	5 HP
SW6500	3200	125	500	12	3	9/30	5	7 ½ HP
SW6630	4000	166	630	15	4	14/52	7 ½	10 HP
SW6757	4800	200	757	18	5	14/52	9	10 HP

Membrane size for all above: 4” diameter x 40” length





**LIFESTREAM WATERSYSTEMS INC.
2,600 – 4,800 GALLONS/DAY
REVERSE OSMOSIS SEAWATER
DESALINATION SYSTEMS**

SYSTEM FEATURES

Media Filter (optional)

- ✓ Fiberglass tank prefilter with manual backwash valve to reduce particles to 25 micron
- ✓ Birm multimedia filter available for iron removal

Prefiltration (standard)

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

Booster Pump (standard)

- ✓ Corrosion resistant 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 316 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 flowmeter and low and high pressure gauges.
- ✓ Start/Stop switches with built in motor overload protectors.
- ✓ Totalizing hour meter.
- ✓ Touch screen, easy to operate PLC.
- ✓ High pressure regulating valve.
- ✓ Salinity controller to automatically direct product water to waste when non-potable or to tank when potable by means of a actuated valve.
- ✓ High quality water indicator lights.
- ✓ All water tight electrical connections.
- ✓ Splash resistant electrical enclosures.
- ✓ Brine check valve ensures only first quality water to storage tank.
- ✓ Glycerine filled 316 SS high and low pressure gauges for long life.
- ✓ Remote monitoring capability via internet.

Frame

- ✓ Epoxy coated cabinet for lifetime of beauty and corrosion resistance.
- ✓ Open design for easy maintenance.
- ✓ Unitized in integrated components for easy maintenance.
- ✓ Secure mounting tabs/holes for stability.

Connections

- ✓ Food grade tubing for contact with potable water.
- ✓ Stainless steel 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:	1000 psi
Feed Water Temperature:	Min. - 2°C (34°F) Max. 45°C (113°F)
Max. Feed Water Salinity:	42,000 ppm TDS
Electrical:	To customer specifications (NEMA 4)

DIMENSIONS

Main Unit:	64" L x 33" W x 24" H
Booster Pump:	11" diameter x 20" L
Pre-filters:	24" L x 8" W x 24" H
Standard Crate:	76" L x 46" W x 42" H
Approx. Dry Weight:	900 lbs. (410 kg)
Connections:	1 ½" FPT Inlet, 1" Brine Waste, 1" FPT Prd ½" Fresh Flush (optional)