

SSW 1.3 to 8.0 KGPD

FACT SHEET

COMPACT DESIGN

Due to the small floor plant size, The SSW line is ideal to provide fresh desalinated water for small resorts and beach houses.

SIMPLE OPERATION

The systems come with a fully automatic control package that only requires a signal from a storage level sensor for on/off operation.

ROBUST DESIGN

We use low rpm motor for the RO pump. This reduces substantially the noise level making the system surrounds a much better place to work.

ANCILLARIES

A series of optional ancillary equipment is available to provide a complete solution to your customer's desalination needs.



DESCRIPTION:

Single pass, multiple stages, compact design. Each pressure vessel contains 1 thin-film composite elements. System produces from 1300 to 8000 GPD (4.9 to 30 M3/D) of product water at 10 to 40% recovery.

OPERATING PARAMETERS:

- TDS..... 37 to 45K mg/l (as NaCl)
- SDI15..... < 3.0
- Temperature..... 25 to 35°C (77 to 95°F)
- Recovery 10 to 40%
- Nominal Rejection >98%

Note: Required 3bar (45psi) minimum customer supplied pressure to high pressure RO Feed Pump. Temperatures and high salinities will reduce system productivity

This specification defines the integrated design requirements for the SSW line of desalination systems for light Commercial and Residential markets. All necessary equipment required for independent operation is provided given the necessary pretreatment precautions are taken.

Design basis includes mounted skid system with axial piston pump as well as a media filter and cartridge filter system. Optional configurations available based on market needs.

COMPONENTS:

- Structural carbon steel epoxic painted
- High Pressure Centrifugal RO Feed Pump w/ 110/220/380V 3 phase 50/60 Hz TEFC motor
- Reject and Permeate flow meters
- Pressure gauges
- Valves:
- Inlet valves,
- Choke valve
- Control panel

CONTROL AND POWER:

- Continuous TDS meter
- Hour meter
- Remote start/stop & alarm capabilities
- Mode switches Auto – 0 - Manual
- Power: 110/220/380V, 3 phase, 50/60Hz

Service Features and Benefits

MEMBRANE AND HOUSINGS

- FRP pressure vessel design, 1000psi rated
- Spiral wound thin film composite membranes 98% nominal salt rejection.

MATERIALS OF CONSTRUCTION

- Control Enclosure NEMA 4X
- High pressure piping 316 SS
- Low pressure piping PVC Sch 80
- Low Pressure Tubing..... Polyethylene
- High Pressure Tubing..... Parflex
- PVC Sample Valves..... Feed, Permeate and Reject

OPTIONALS

- Feed pump
- Feed pump control panel & starter
- Dual 10x54 Multimedia system
- Triple 10x54 Multimedia system
- Chemical feed system
- Cleaning system 8 GPM
- Installation and commissioning
- Supervision/services are available

PERFORMANCE

Model	Product GPM	Feed GPM	Reject GPM	Output GPD	Output M3/D	Recovery %
SSWRO-1.3	0.9	8.8	7.8	1300	4.90	10
SSWRO-2.6	1.8	8.8	6.9	2600	9.80	20
SSWRO-3.6	2.5	8.8	6.2	3600	13.57	30
SSWRO-5.0	3.5	8.8	5.2	5000	18.85	40
SSWRO-6.3	4.4	11.0	6.6	6300	23.75	40
SSWRO-8.0	5.6	18.5	13.0	8000	30.2	30

SPECIFICATION

Model	Membrane		Pump HP	Weight Lbs/Kilo	Size LxWxH		Inlet Size	Product Size	Reject Size
	Qty	Size			In	Cm			
SSWRO-1.3	1	4"	7.5	330/150	36X19X71	91X48X180	3/4"	1/2"	3/4"
SSWRO-2.6	2	4"	7.5	370/170	36X19X71	91X48X180	3/4"	1/2"	3/4"
SSWRO-3.6	3	4"	7.5	420/191	36X19X71	91X48X180	3/4"	1/2"	3/4"
SSWRO-5.0	4	4"	7.5	460/210	36X19X71	91X48X180	3/4"	1/2"	3/4"
SSWRO-6.3	5	4"	7.5	500/228	40X19X71	100X48X180	1"	3/4"	1"
SSWRO-8.0	2	8"	15.0	978/443	50X50X71	127x127x180	1"	1"	1"

INSTRUMENTS:

- Conductivity..... Permeate, Final product.
- Flow meters..... Permeate and Reject lines.
- Pressure switch..... RO Feed and discharge pumps.
- Pressure gauges..... Liquid filled for high and low pressures.
- Gauge Panel Flows and Pressure all mounted in the same place.



TECHNICAL SUPPORT

Commissioning, Start-up, operators training, maintenance training, retrofits and modernization are available.

ZERO DOWNTIME

We supply all the basic two years critical spare parts with our units. Also we use very well know and proved components in all of our systems.

TURNKEY SOLUTIONS

We can provide the basic RO systems plus all pretreatment and Post treatment such us:

- Chemical injection systems
- Multimedia systems.
- Calcite contact tanks
- Ozono generators
- UV disinfection
- H2S removal

For more information on any of our products or services please visit us on the Web at:

www.advances.com