

Solar Reverse Osmosis Systems For Sea Water

Skid and Containerized

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.



STANDARD SOLAR DESALINATION SERIES

From 3,600 to 66,000 GPD, bigger systems customized based on customer need.

SOLAR SWRO – BENEFITS

- 40 – 50 % Lower power consumption
- Pressure exchanger as energy recovery device.
- Well proved components available worldwide
- Heavy duty materials
- Easy to operate and maintain systems
- 100% automatic operation
- Design for continuous operation
- Low chemical consumption
- Typically, power 7.5 to 8.2 Kwh/1000 gallons
- Remote control and monitoring system
- Local datalogging system

TYPICAL APPLICATIONS

- Remote islands.
- Municipalities
- Remote towns
- Beverage and Bottling
- Hotels and Resorts
- Industrial
- Irrigation

Advanced Equipment and Services is a global provider of custom skid-mounted seawater desalination systems that includes many standard features which make them suitable for the most demanding applications.

The steady growth and continuous success of the company is premised on innovative designs and quality without compromise. Our systems give you the reliability, durability and performance you expect. We always incorporate the most advance and reliable components to ensure you achieve the lowest operating cost during the whole system life.

STANDARD FEATURES

- Duplex SS - high pressure pipe lines
- PVC sch 80 - LOW pressure pipe lines.
- Powder coated frames.
- Pressure Exchanger as energy recovery device.
- Thin film composite membranes.
- FRP pressure vessels.
- Flush and cleaning pump.
- PLC control.
- PDP energy efficient pump.
- Product TDS meter.
- Low & High pressure protection.
- Permeate & concentrate flowmeters.
- Low membrane flux < 10 GFD
- Remote Control monitoring included.



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.

Flexible solutions for your business needs

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-known and proven components in all of our systems.

TURNKEY SOLUTIONS

We can provide the SOLAR Seawater 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.advancees.com

Contact us at:

sales@advancees.com

OPTIONAL FEATURES

Our standard units are design with very robust components but we understand that some customers have different needs, for this reason we can offer the following optional components:

- Centrifugal or reciprocating pumps
- Choke valve to replace energy recover unit.
- Explosion proof systems for class I div II areas.
- Data acquisition and logging systems.
- Special instrumentation
- Diesel drives systems.
- Remote control - cloud.
- Remote monitoring - cloud.

PERFORMANCE

Model	Output		Product GPM	Feed GPM	Reject GPM	Permate Day Time GPD *	Permate Night Time GPD **	Recovery Rate % MAX	DC Voltaje
	GPD	M3/D							
SSWRO-0004S	3600	13.6	2.5	8.3	5.8	1188	2412	30	380
SSWRO-0005S	5000	18.9	3.5	8.7	5.2	1650	3350	40	760
SSWRO-0006S	6300	23.8	4.4	10.9	6.6	2079	4221	40	760
SSWRO-0008S	8000	30.2	5.6	18.5	13.0	2640	5360	30	760
SSWRO-0015S	15000	57.0	10.4	34.7	24.3	4950	10050	30	760
SSWRO-0020S	20000	75.1	13.9	46.3	32.4	6600	13400	30	760
MSWRO-0026S	25999	94.6	18.1	60.2	42.1	8580	17419	30	760
MSWRO-0035S	34998	132.0	24.3	65.7	41.4	11549	23449	37	760
MSWRO-0066S	66000	250.0	45.8	114.6	68.8	21780	44220	40	760

SPECIFICATION

Model	Membranes		Connection Size (Inch)			Pump HP	Solar Panels Qty ***	Weight Lbs.
	Qty	Size	Feed	Product	Reject			
SSWRO-0004S	3	4"	¾"	½"	¾"	7.5	20	1,420
SSWRO-0005S	4	4"	¾"	½"	¾"	7.5	20	1,460
SSWRO-0006S	5	4"	1"	¾"	1"	7.5	20	1,500
SSWRO-0008S	2	8"	1"	1"	1"	15	30	2,478
SSWRO-0015S	2	8"	1"	1"	1"	15	30	2,550
SSWRO-0020S	6	8"	2"	1.25"	1.50"	15	30	2,800
MSWRO-0026S	6	8"	2"	1.25"	1.50"	30	60	4,300
MSWRO-0035S	8	8"	2"	1.25"	1.50"	40	80	5,500
MSWRO-0066S	15	8"	3"	2.25"	2.25"	50	100	7,650

* Daily production varies accordingly with sun radiation

** Optional with the transfer switch option

*** Based on monocrystal Solar Panel

Specifications based on TDS<36000 @ 25C - Consult with advanced if higher TDS is reduced.

Containerized option available.

