

Solar Reverse Osmosis Systems For Brackish Water

Skid and Containerized

COMPACT DESIGN

Our system compact design provides all necessary components required to deliver the most reliable solutions.

SIMPLE OPERATION

The systems come with a fully automatic control package that only require 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 surroundings 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.



Advanced Equipment and Services is a global provider of custom skid-mounted brackish and seawater systems that include many standard features which makes 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 advanced and reliable components to ensure you achieve the lowest operating cost during the whole system life.

OUR STANDARD BW SOLAR MODEL SIZE RANGE

- 45,000 to 288,000 GPD
(custom options available)

SBWRO – LAND BASE-BENEFITS

- Automatic transfer switch from Solar to regular grid power
- Energy recovery device optional.
- Well proved components available worldwide
- Heavy duty materials
- Easy to operate and maintain systems
- 100% automatic operation
- Design for continuous operation
- Low chemical consumption
- Standard Remote control and monitoring capabilities

TYPICAL APPLICATIONS

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

STANDARD FEATURES

- 316SS - high pressure pipe lines
- PVC sch 80 - low pressure pipe lines.
- Aluminum frames.
- Thin film composite membranes.
- FRP pressure vessels.
- Flush and cleaning system.
- PLC control.
- High energy efficient pump.
- Product TDS meter.
- Low & High pressure protection.
- Permeate & concentrate flowmeters.
- Low membrane flux
- Wireless hub for remote control and monitoring function



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-year critical spare parts with our units. Also, we use very well-known and proved components in all of our systems.

TURNKEY SOLUTIONS

We can provide the basic RO systems plus all pretreatment and post-treatment such as:

- 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

OPTIONAL FEATURES

Our standard units are designed 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
- 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	Permeate Day Time GPD *	Permeate Night Time GPD **	Permeate Total GPD		Feed Flow GPD	Recovery Rate % MAX	Solar Panels ***
BWRO-0045S	14850	30150	45000	7.10	48.08	65	10
BWRO-0060S	19800	40200	60000	9.46	59.52	70	20
BWRO-0175S	57750	117250	175000	27.60	173.61	70	40
BWRO-0216S	71280	144720	216000	34.07	200.00	75	60
BWRO-0250CS	82500	167500	250000	39.43	231.48	75	100
BWRO-0288CS	95040	192960	288000	45.42	266.67	75	100

SPECIFICATION

Model	Feed Pump Power HP	RO Pump Power HP	Inlet Size In	Product Size In	Reject Size In	Weight Lbs	Options ****
BWRO-0045S	0.5	5	2	2	1.5	3500	
BWRO-0060S	1	7.5	2	2	1.5	3900	SKID
BWRO-0175S	2	15	4	3	2	4900	SKID
BWRO-0216S	3	20	4	3	2	6800	SKID
BWRO-0250CS	5	25	4	3	3	8900	CONTAINER
BWRO-0288CS	5	30	6	4	3	10960	CONTAINER

* Daily production varies accordingly with sun radiation

*** Based on 340w 72Cells monocrystal Solar Panel

** Optional with the transfer switch option

**** Containerized option available for all

Based on TDS<1000 @ 25C - Consult with Us if higher TDS is required.

