

# AQUIFER 200 PPS - SELF SUFFICIENT OFF-GRID WATER SOLUTION



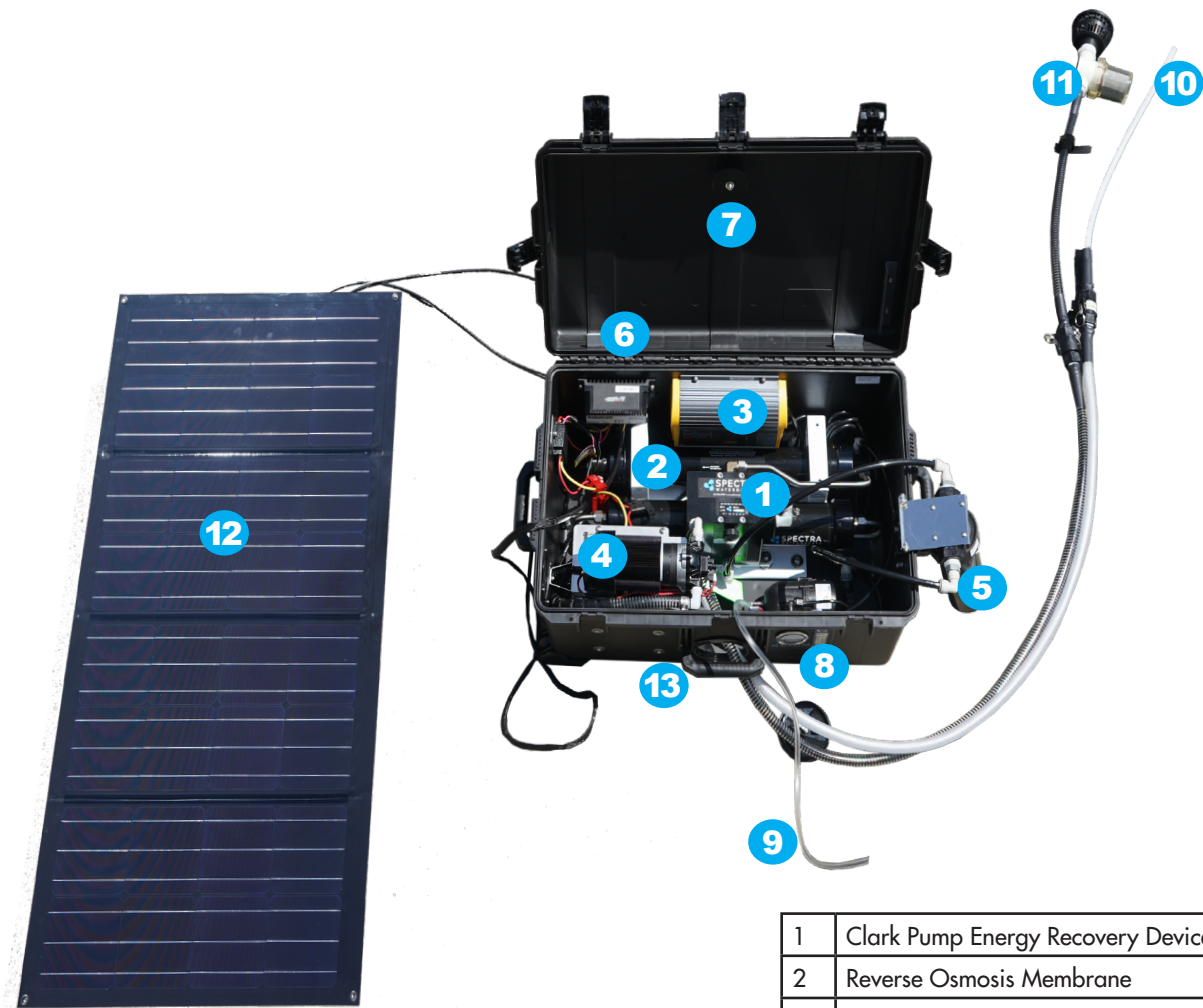
## PRODUCT SPECS

Article Number	AF-200-PPS
Salt Rejection	99.4%
Technology	High energy-efficient Reverse-Osmosis (RO)
Production / Day	200 gal (757 l)
Production / Hour	8 gal (30 l)
	Full sunlight required for peak production
Recovery Rate	10%
Feed Water Source	Fresh, brackish, seawater
Voltage Options	12 V DC, 90-305 V AC, 50/60 Hz or up to a 75 Voc solar panel array (three of the included folding solar panels)
Power	110 Wh
Battery	31.6 Amp Hours
Watt / Liter	4
Water Temperature Limits	Max 110°F (43°C)   Min 36°F (2°C)
Weight	140 lbs (63.5 kg)
Case Dimensions	31" x 20.5" x 15.5"
	79 cm x 52 cm x 40 cm

## FEATURES

- Single-case water solution, self-sufficient with included solar panel
- Ideal for residential use in coastal areas
- 31 amp hour gel cell battery
- Super efficient, requiring as little as 110 watts to purify seawater
- Designed to optimize power from solar panels, directly from an external 12 V DC power source, or can be plugged it into any AC outlet (90-305 V AC 50/60Hz) which will both charge the battery and run the watermaker at the same time. AC power will also maintain the battery if unit is plugged in while in storage.
- Composite construction for superb corrosion resistance
- Fixed freshwater recovery ratio for easy operation, optimized for long RO membrane life
- Protective plastic roller case
- Membranes are protected from overpressure and scaling by design and can last 8-10 years or more with proper maintenance
- Spectra Watermakers' renowned customer service and support with technicians available by phone, Whatsapp, and e-mail in North America and Europe

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## SYSTEM SHIPPING LIST

System
Aquifer 200-PPS
Included Components
Clark Pump pressure intensifier, 10% recovery rate
Spectra1000 psi composite pressure vessel with seawater RO membrane
2.5" X 10" 5 micron pre-filter (1)
Analog gauges and controls
Solar Panel
2 Lithium Ion Batteries
Protective Plastic Roller Case
Product, Feed and Brine hoses
Installation Kit
Filter Wrench
Hand-held TDS/Salinity Meter
User Manual

1	Clark Pump Energy Recovery Device
2	Reverse Osmosis Membrane
3	Battery
4	Shurflo Feed Pump
5	Fold-Out Prefilter Assembly
6	DC Power Connection
7	Protective Plastic Roller Case
8	Flow and Pressure Gauges
9	Product Hose
10	Brine Hose
11	Feed Hose/Sea Strainer
12	Solar Panel
13	Power & Pump Switches

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### SPARE PARTS AND CONSUMABLES

Article Number	Product
FT-FTC-5	5 micron cartridge filters
KIT-HP-S&O	Seal and O-Ring kit for Clark Pump
KIT-HP-10UD	Clark Pump Rebuild Kit 10%
SO-FHS-10H	Prefilter housing O-Ring
EL-FP-DP	Diaphragm drive for feed pump head
PL-PMP-SFPH	Replacement Shurflo pump head
EL-FP-12V	Replacement Shurflo pump/motor combination, 12 V
KIT-CHEM-SC2	Spectra alkaline membrane cleaner
KIT-CHEM-SC3	Spectra acid cleaner
KIT-CHEM-SC1	Spectra membrane preservative

### OPTIONAL COMPONENTS

Article Number	Product	Description
KIT-HHM	Hand-held conductivity tester with calibration solution	Extra handheld TDS meter
EL-SLT-INLPMNT2	Inline Salinity Monitor	For digitally testing total dissolved solids (TDS) of product water, which is any salt, metal, or mineral in the water.
KIT-AF-SPK	Aquifer support kit 6ea, 5 Micron filters, 2 ea, chemicals for storage, alkaline and acid cleaning	A full complement of supplies for an Aquifer unit in the field. Recommended for Aquifer deployment.

## ALL PORTABLE & STATIONARY LANDBASED SYSTEMS

### AQUIFER SERIES

Article Number	Product	Product Information	Output
AF-200-DC-12 AF-200-DC-24	Aquifer 200	Highly portable water purification/desalination system. In-case suction pump, external power required.	30 l/h, 8 gal/h
AF-360-DC-12 AF-360-DC-24	Aquifer 360	Highly portable water purification/desalination system with dual in-case suction pumps for higher output, external power required.	55 l/h, 15 gal/h
AF-200-EX-FL	Aquifer 200 EXP Flight Ready	Flight ready and enhanced priming capability using submersible pumps. External power required, compatible with optional Solar Power Pack (KIT-AF-FLRPS3P24).	30 l/h, 8 gal/h
AF-200-PPS	Aquifer 200 Power Pack Solar	Included Solar Panel, a self-sufficient offgrid water purification/desalination solution that fits in a single case.	30 l/h, 8 gal/h
AF-360-EX-FL	Aquifer 360 EXP Flight Ready	Flight ready and enhanced priming capability using submersible pumps, with higher output. External power required, compatible with optional Solar Power Pack (KIT-AF-FLRPS3P24).	55 l/h, 15 gal/h
AF-4000	Aquifer 4000	Revolutionary ultra-high output portable system, 3.5kW generator or external power required.	628 l/h, 166 gal/h
KIT-AF-FLRPS3P24	3 Panel Power Supply Case	Power supply case with options for 12/24 V DC, 100-240 V AC 50/60 Hz as well as included Solar Panels. Compatible with AF-200-EX-FL and AF-360-EX-FL.	n/a

### LANDBASED SERIES

Article Number	Product Information	Watts Used*	Output
LB-400	Compact, modular purification/desalination	300	64 l/h, 17 gal/h
LB-1800M-220	Framed watermaker with manual controls	800	285 l/h, 75 gal/h
LB-1800C-220	Framed watermaker with automated Spectra Connect controller	800	285 l/h, 75 gal/h
LB-2800F-220M	Framed watermaker with manual controls	1200	435 l/h, 115 gal/h
LB-2800C-220	Framed watermaker with automated Spectra Connect controller	1200	435 l/h, 115 gal/h
LB-4000-220	Brackish water system, framed with manual controls	1200**	680 l/h, 180 gal/h
LB-4000C-220	Brackish water system, framed with automated Spectra Connect controller	1200**	680 l/h, 180 gal/h
LB-10000F-230S	Framed watermaker with automated Spectra Connect controller	3800	1,575 l/h, 420 gal/h
LB-14000F-230	Brackish water system, framed with automated Spectra Connect controller	5300**	2,208 l/h, 583 gal/h

\*Using Seawater feed at 32,000 ppm and 25°C (77°F).

\*\*25,000 ppm maximum salinity for these brackish water systems

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