

Aquifer 200 PPS - Self Sufficient Off-grid Water Solution



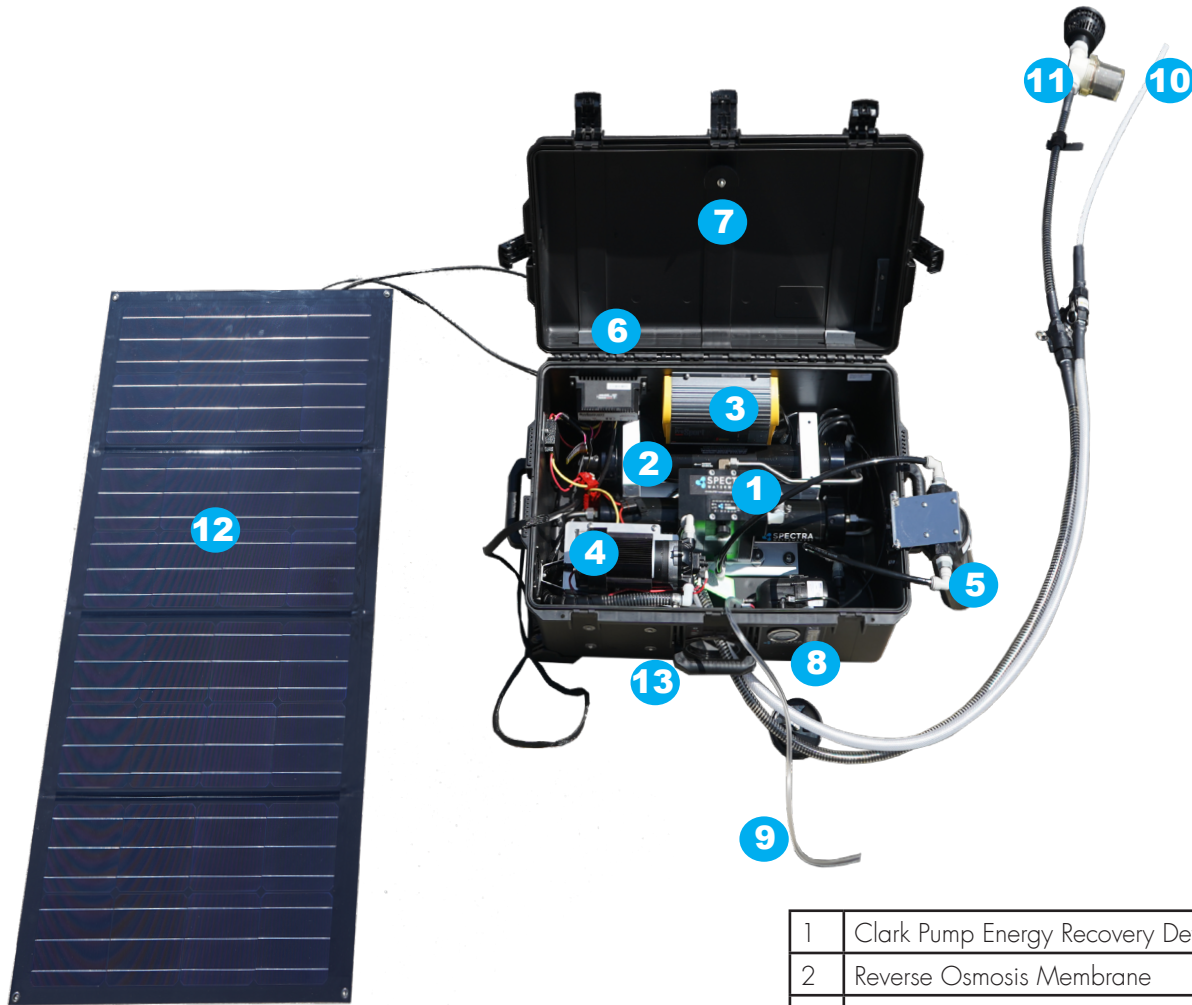
PRODUCT SPECS

| | |
|--------------------------|--|
| Article Number | AF-200-PPS |
| Salt Rejection | 99.4% |
| Technology | High energy-efficient Reverse-Osmosis (RO) |
| Production per Hour | 30 lph (8 gph) |
| | Full sunlight required for peak production |
| Recovery Rate | 10% |
| Feed Water Source | Fresh, brackish, seawater |
| Voltage Options | 12VDC, 90-305VAC, 50/60 Hz or up to a 75Voc solar panel array (three of the included folding solar panels) |
| Power | 110 Wh |
| Battery | 31.6 Amp Hours |
| Watt per Liter | 4 |
| Water Temperature Limits | Max 43°C (110°F) / Min 2°C (36°F) |
| Weight | 62 kg (135 lbs) |
| Case Dimensions | 79 cm x 52 cm x 40 cm (31" x 20.5" x 15.5") |

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, will also operate directly from either an external 12vdc power source, or can be plugged it into any AC outlet (90-305VAC 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’s renowned customer service and support with technicians available by Skype, phone 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 |
| Spectra 1000 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 |
| Log Book |

| | |
|----|-----------------------------------|
| 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 |
| EL-FP-DP | Diaphragm drive for feed pump |
| KIT-HP-10UD | Clark Pump rebuild kit |
| 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. |

List of all Portable Desalination and Purification Systems

AQUIFER SERIES

| Article Number | Product | Product Information | Output |
|-------------------------|---------------------------------|--|--------------|
| AF-200-DC-12 | Aquifer 200 AFD 12 Volt | Highly portable 12 volt water purification/desalination system. External power required. | 30l/h, 8gph |
| AF-200-DC-24 | Aquifer 200 AFD 24 Volt | Highly portable 24 volt water purification/desalination system. External power required. | 30l/h, 8gph |
| AF-200-EX-FL | Aquifer 200 EXP Flight Ready | External power required, compatible with optional Solar Power Pack (KIT-AF-FLRPS2P24). Flight Ready. | 30l/h, 8gph |
| AF-200-PPS | Aquifer 200 Power Pack Solar | Includes Solar Panel. A self-sufficient offgrid water purification/desalination solution that fits in a single case. | 30l/h, 8gph |
| AF-360-DC-12 | Aquifer 360 AFD 12 Volt | Highly portable 12 volt water purification/desalination system. External power required. | 55l/h, 15gph |
| AF-360-DC-24 | Aquifer 360 AFD 24 Volt | Highly portable 24 volt water purification/desalination system. External power required. | 55l/h, 15gph |
| AF-360-EX-FL | Aquifer 360 EXP Flight Ready | Portable with higher output. External power required, compatible with optional Solar Power Pack (KIT-AF-FLRPS3P24). Flight Ready. | 55l/h, 15gph |
| KIT-AF-FLRPS2P24 | 2 Panel Power Supply Case | Power supply case with options for 12/24v DC, 100-240c AC 50/60 Hz as well as included Solar Panels. Compatible with AF-200-EX-FL. | n/a |
| KIT-AF-FLRPS3P24 | 3 Panel Power Supply Case | Power supply case with options for 12/24v DC, 100-240c AC 50/60 Hz as well as included Solar Panels. Compatible with AF-360-EX-FL. | n/a |

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