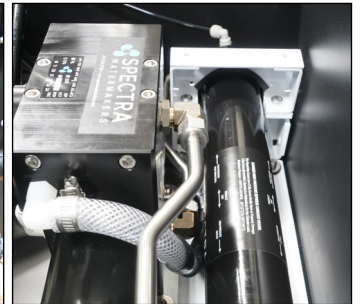


## Aquifer 200 - Portable Desalination and Purification



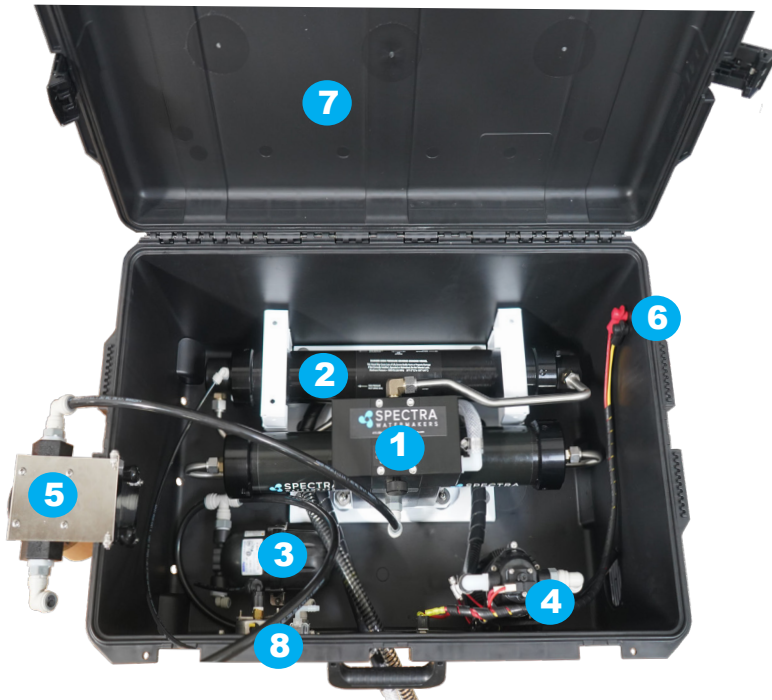
### PRODUCT SPECS

|                          |                                                |
|--------------------------|------------------------------------------------|
| Article Number           | AF-200-DC-(12 or 24)                           |
| Salt Rejection           | 99.5%                                          |
| Technology               | High energy-efficient Reverse-Osmosis (RO)     |
| Production per Day       | 757 lpd (200 gpd)                              |
| Production per Hour      | 30 lph (8 gph)                                 |
| Recovery Rate            | 10%                                            |
| Feed Water Source        | Fresh, brackish, seawater                      |
| Voltage Options          | 12v DC 10A                                     |
| Power                    | 110 Wh                                         |
| Watt per Liter           | 4                                              |
| Water Temperature Limits | Max 43°C (110°F) / Min 2°C (36°F)              |
| Weight                   | 27.7 kg (60 lbs)                               |
| Case Dimensions          | 79 cm x 52 cm x 40 cm<br>(31" x 20.5" x 15.5") |

### FEATURES

- Simple analog controls and gauges, no electronics
- Super efficient, requiring as little as 110 watts to purify seawater, ideal for solar and wind power
- Fixed freshwater recovery ratio for easy operation, optimized for long RO membrane life
- Perfectly pairs with wind, solar or battery power due to high energy efficiency and 12V DC power usage
- Heavy duty, military grade, shock and impact resistant plastic roller case
- Composite construction for superb corrosion resistance
- 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

## Aquifer 200 - Portable Desalination and Purification



|   |                                   |
|---|-----------------------------------|
| 1 | Clark Pump Energy Recovery Device |
| 2 | Reverse Osmosis Membrane          |
| 3 | Pressure Accumulator              |
| 4 | Shurflo Feed Pump                 |
| 5 | Fold-Out Prefilter Assembly       |
| 6 | DC Power Connection               |
| 7 | Mil-Spec Plastic Case             |
| 8 | Flow and Pressure Gauges          |

### SYSTEM SHIPPING LIST

| System                                                               |
|----------------------------------------------------------------------|
| Aquifer 200-DC                                                       |
| 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                                           |
| Mil-Spec plastic case                                                |
| Product, Feed and Brine hoses                                        |
| Installation Kit                                                     |
| Filter Wrench                                                        |
| Hand-held TDS/Salinity Meter                                         |
| User Manual                                                          |
| Log Book                                                             |

## Aquifer 200 - Portable Desalination and Purification

### SPARE PARTS AND CONSUMABLES

| Article Number        | Product                            |
|-----------------------|------------------------------------|
| <b>FT-FTC-5</b>       | 5 micron cartridge filters         |
| <b>KIT-HP-S&amp;O</b> | Seal and O-ring kit for Clark Pump |
| <b>EL-FP-DP</b>       | Diaphragm drive for feed pump      |
| <b>KIT-HP-10UD</b>    | Clark Pump rebuild kit             |
| <b>KIT-CHEM-SC2</b>   | Spectra alkaline membrane cleaner  |
| <b>KIT-CHEM-SC3</b>   | Spectra acid cleaner               |
| <b>KIT-CHEM-SC1</b>   | Spectra membrane preservative      |

### OPTIONAL COMPONENTS

| Article Number         | Product                                                                                            | Description                                                                                                             |
|------------------------|----------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|
| <b>KIT-AF-UIP24V</b>   | Universal voltage kit 100-240vac 50/60Hz                                                           | Adds AC power versatility to Aquifer units.                                                                             |
| <b>KIT-HHM</b>         | Hand-held conductivity tester with calibration solution                                            | Extra handheld TDS meter.                                                                                               |
| <b>EL-SLT-INLPMNT2</b> | Inline Salinity Monitor                                                                            | For digitally testing total dissolved solids (TDS) of product water, which is any salt, metal, or mineral in the water. |
| <b>KIT-AF-SPK</b>      | 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.                     |

## Portable Desalination and Purification Systems

### AQUIFER SERIES

| Article Number          | Product                         | Product Information                                                                                                                | Output       |
|-------------------------|---------------------------------|------------------------------------------------------------------------------------------------------------------------------------|--------------|
| <b>AF-200-DC-12</b>     | Aquifer 200 AFD<br>12 Volt      | Highly portable 12 volt water purification/desalination system. External power required.                                           | 30l/h, 8gph  |
| <b>AF-200-DC-24</b>     | Aquifer 200 AFD<br>24 Volt      | Highly portable 24 volt water purification/desalination system. External power required.                                           | 30l/h, 8gph  |
| <b>AF-200-EX-FL</b>     | Aquifer 200 EXP<br>Flight Ready | External power required, compatible with optional Solar Power Pack (KIT-AF-FLRPS2P24). Flight Ready.                               | 30l/h, 8gph  |
| <b>AF-200-PPS</b>       | Aquifer 200<br>Power Pack Solar | Includes Solar Panel. A self-sufficient offgrid water purification/desalination solution that fits in a single case.               | 30l/h, 8gph  |
| <b>AF-360-DC-12</b>     | Aquifer 360 AFD<br>12 Volt      | Highly portable 12 volt water purification/desalination system. External power required.                                           | 55l/h, 15gph |
| <b>AF-360-DC-24</b>     | Aquifer 360 AFD<br>24 Volt      | Highly portable 24 volt water purification/desalination system. External power required.                                           | 55l/h, 15gph |
| <b>AF-360-EX-FL</b>     | Aquifer 360 EXP<br>Flight Ready | Portable with higher output. External power required, compatible with optional Solar Power Pack (KIT-AF-FLRPS3P24). Flight Ready.  | 55l/h, 15gph |
| <b>KIT-AF-FLRPS2P24</b> | 2 Panel Power<br>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          |
| <b>KIT-AF-FLRPS3P24</b> | 3 Panel Power<br>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          |