

Aquifer 200 - Portable Desalination and Purification



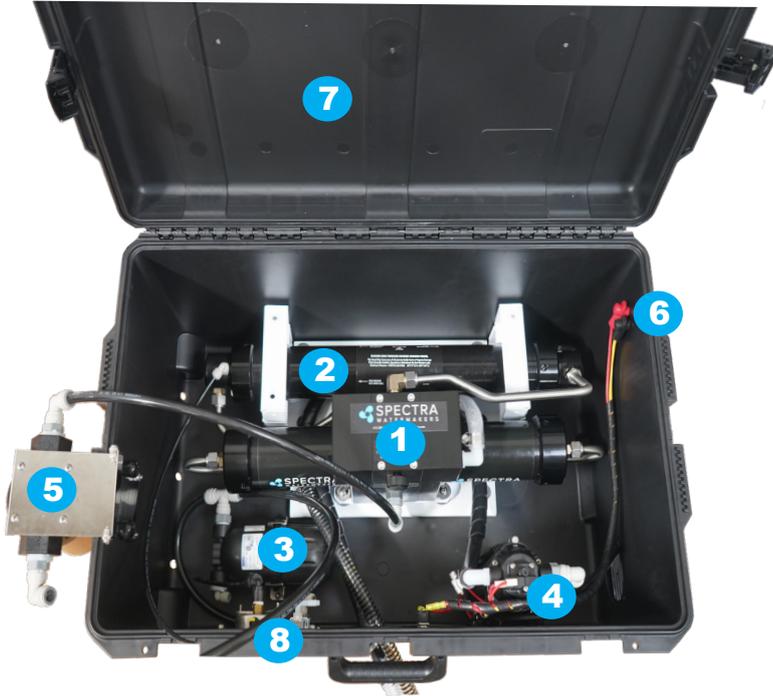
PRODUCT SPECS

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 (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

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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

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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-AF-UIP24V	Universal voltage kit 100-240vac 50/60Hz	Adds AC power versatility to Aquifer units.
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.

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