

Aquifer 200 Flight Ready - Self-Contained Desalination System



PRODUCT SPECS

Article Number	AF-FLR-200 (Includes AF-200-EX-FL and KIT-AF-FLRPS2P24)
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 or 24v DC, Solar Power or 100-240v AC 50/60 Hz
Power	110W (running on one pump)
Watt per Liter	4.5
Water Temperature Limits	Max 37°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

- Packed in three heavy duty, military grade, plastic roller cases that are baggage weight compliant
- Ready for use with multiple power sources: 100 - 240v AC, 12v and 24v DC or included solar panels
- Dual Shurflo submersible feed pumps for reliability, capable of pumping feed water 25' straight up, a 40% increase over the standard Aquifer feed pump
- Ships complete with everything you need to make pure water
- Simple analog controls and gauges, no electronics
- Fixed freshwater recovery ratio for easy operation, optimized for long RO membrane life
- 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 Membranes
3	Shurflo Submersible Feed Pump
4	Pump/Hose Bag and Water Container
5	Prefilter Assembly
6	DC Power Connection
7	Mil-Spec Plastic Case
8	Flow and Pressure Gauges
9	Quickstart Guide
10	Salinity Tester
11	Optional AC Power Supply
12	Power Case
13	2 Solar Panels

SYSTEM SHIPPING LIST

System
Aquifer AF-FLR-200 (AF-200-EX-FL + KIT-AF-FLRPS2P24)
Included Components
Clark Pump pressure intensifier, 10% recovery rate
Spectra 1000 psi composite pressure vessel with seawater RO membrane
Shurflo Submersible Pump
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



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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	Aquifer 200	Highly portable water purification/desalination system. External power required.	30l/h, 8gph
AF-200-EX-FL	Aquifer 200 Expedition	External power required, compatible with optional Solar Power Pack (KIT-AF-FLRPS2P24).	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-FLR-200	Aquifer 200 Flight Ready	Complete portable watermaker system, 3 cases include watermaker, feed pumps and solar panels. VWeight managed for commercial flights.	30l/h, 8gph
AF-360-EX-FL	Aquifer 360 Expedition	Portable with higher output. External power required, compatible with optional Solar Power Pack (KIT-AF-FLRPS3P24).	55l/h, 15gph
AF-FLR-360	Aquifer 360 Flight Ready	Complete portable watermaker system, 3 cases include watermaker, feed pumps and solar panels. VWeight managed for commercial flights.	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

LANDBASED SERIES

Article Number	Product Information	Watts Used*	Output
LB-400	Compact, modular purification/desalination	300	64l/h, 17gph
LB-1800F-220M	Framed watermaker with manual controls	800	285l/h, 75gph
LB-1800C-220	Framed watermaker with automated Spectra Connect controller	800	285l/h, 75gph
LB-2800F-220M	Framed watermaker with manual controls	1200	435l/h, 115gph
LB-2800C-220	Framed watermaker with automated Spectra Connect controller	1200	435l/h, 115gph
LB-10000-F-MS	Framed watermaker with manual controls	3800	1,575l/h, 420gph
LB-10000F-230S	Framed watermaker with automated Spectra Connect controller	3800	1,575l/h, 420gph
LB-20000 Container	Containerized community-level watermaker built into a standard shipping container. Ready to combine with a solar power system.	< 8kW	3,155l/h 833gph
LB-4000F-220M	Brackish Water system, framed with manual controls	1200**	680l/h, 180gph
LB-4000C-220	Brackish Water system, framed with automated Spectra Connect controller	1200**	680l/h, 180gph
LB-14000F-M-BR2S	Brackish water system, framed with manual controls	5300**	2,208l/h 583gph
LB-14000F-230	Brackish water system, framed with automated Spectra Connect controller	5300**	2,208l/h 583gph

*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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