

AQUIFER 3000 - PORTABLE DESALINATION SYSTEM



The Aquifer 3000 produces 3,000 gallons of fresh water per day from seawater, brackish, or fresh sources. Compact and rugged, it can be transported and assembled by a two-person team, runs on a 3.5 kW generator, and is built to withstand the most demanding environments—delivering safe, dependable water for military, disaster relief, and humanitarian missions.

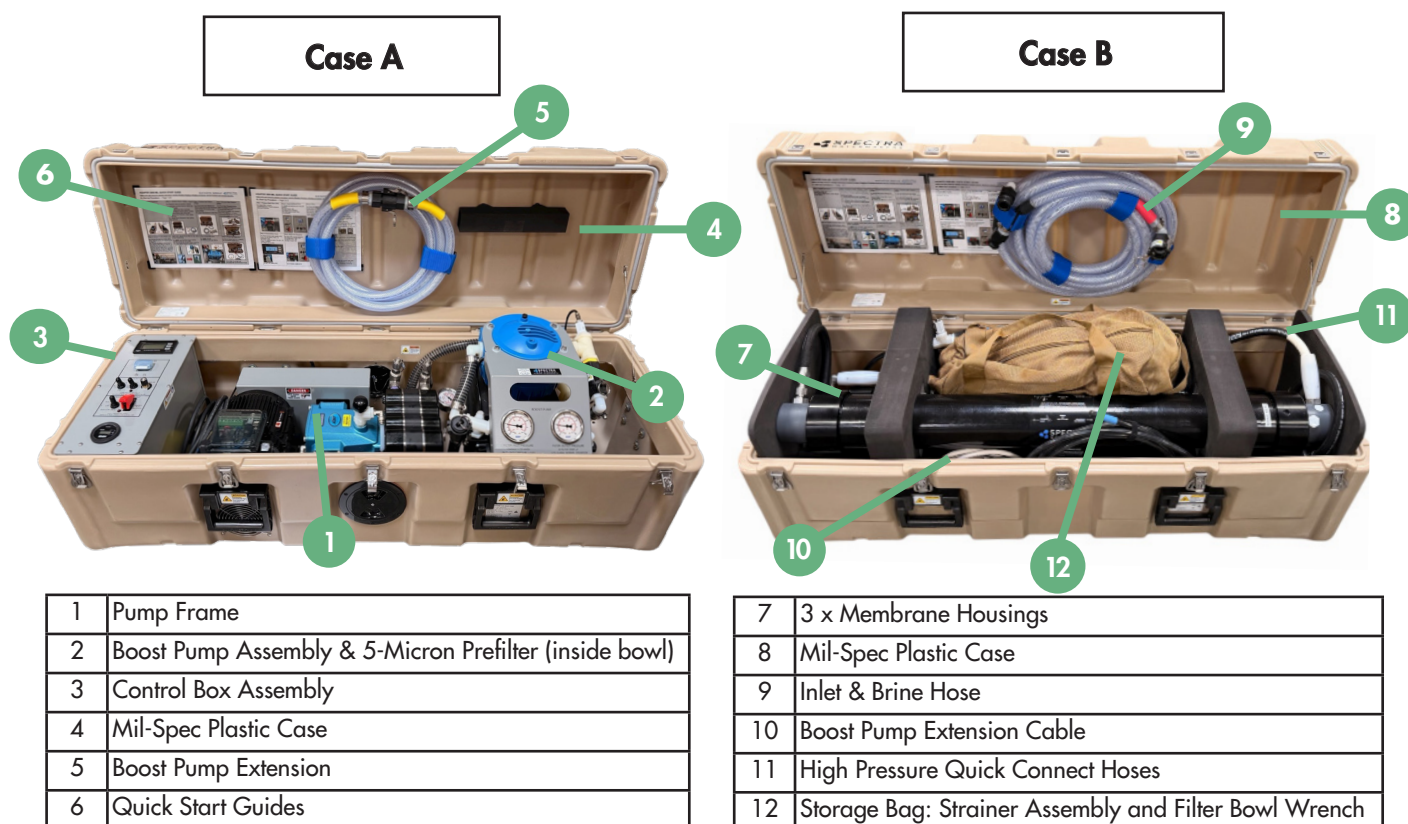
PRODUCT SPECS

Part Number:	AF-3000-MIL
Salt Rejection:	99.5%
Technology:	High-efficiency energy recovery seawater reverse-osmosis
Production*:	3,000 gal (11,356 L) / day 125 gal (473 L) / hour
*Fixed rate regardless of inlet condition	
Feed Water Source:	0 - 45 ppt salinity
Voltage:	208-240 V AC
Nominal Current:	10 A (208V AC)
Nominal Power:	0.85 kW on low mode, 1.35 kW on high mode
Energy Consumption:	2.85 Wh/L*
*Measured in run high mode with salinity of 32 ppt and temperature 70°F	
Temperature Limits:	Max 110°F (43°C) Min 36°F (2°C)
Case Weight:	A: 175 lbs (79.4 kg) B: 153 lbs (69.4 kg)
Case Dimensions:	A & B: 18" x 52" x 18" (0.46 m x 1.32 m x 0.47 m)
Testing:	Transit Drop Test: MIL-STD-810H EMC Test: EN61326-1 Class A Safety Test: UL 61010-1 3rd Edition

FEATURES

- Reliable performance in all operating conditions with two speed settings:
 - » **High Mode** (3,000 gal/day): Typical run speed for normal inlet conditions (35 ppt salinity, 50 °F water)
 - » **Low Mode** (1,600 gal/day): Suited for solar power applications, fuel conservation, extreme source water conditions, or reduced signature/sound management
- Highly portable: 2-person carry
- Energy efficient: Requires only a small generator (generator not included)
- Rugged construction made for austere operating environments
- Tool-free assembly
- Digital Salinity Monitoring Kit included
- Control box - self-contained
- Self priming assist for up to 10 ft (3 m) source water lift
- Supports up to 500 people (6 gal/person/day)
- Heavy-duty, military-grade, shock and impact-resistant cases
- Built-in recovery system for easy use and long-lasting performance

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SPARE PARTS AND CONSUMABLES

Part Number	Product
FT-FTC-5BB	5-micron 4" x 10" cartridge filter
KIT-CHEM-SC1	Spectra membrane preservative
FT-FTB-6X24	Strainer assembly 100-micron mesh bag
EL-FP-10GPM DP12V	10 GPM double diaphragm pump 12V (Boost Pump)
KIT-SP5C-30R2K5	2,5000 hr SPP5-30 Pearson Pump rebuild kit
KIT-SP5C-30R10K	10,000 hr SPP5-30 Pearson Pump rebuild kit
PP-5-BD-BLT270H	Pully belt (on Pearson Pump)
KIT-MB-4X40SW*	4" x 40" membrane kit (1 per kit, 3 in system)
FT-FTC-CCBB	10" charcoal prefilter
KIT-AF-3K-PBF	AF-3000 tool kit
KIT-CHEM-SC2	Spectra alkaline membrane cleaner
KIT-CHEM-SC3	Spectra acid cleaner

*Due to unique Spectra Watermakers design, membrane replacements are not needed as a standard consumable on properly maintained systems

OPTIONAL ACCESSORIES

Part Number	Product
KIT-AF-CWK	Cold weather kit: Movable heating pads - no installation needed

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MILITARY GRADE PRODUCTS

Part Number	Product	Product Information	Output
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).	8 gal/h, 30 L/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).	15 gal/h, 55 L/h
HFD-PS40-LAND	HFD Land Warfare	The HFD is a rugged, portable watermaker that provides purified drinking water from nearly any source with efficient, versatile power options.	1.7 gal/h, 6.3 L/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

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Spectra Watermakers

2220 S McDowell Blvd Ext

Petaluma, CA 94954

TEL: +1 415 526 2780 | FAX: +1 415 526 2787

E-MAIL: sales@spectrawatermakers.com

www.spectrawatermakers.com

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