

## 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.

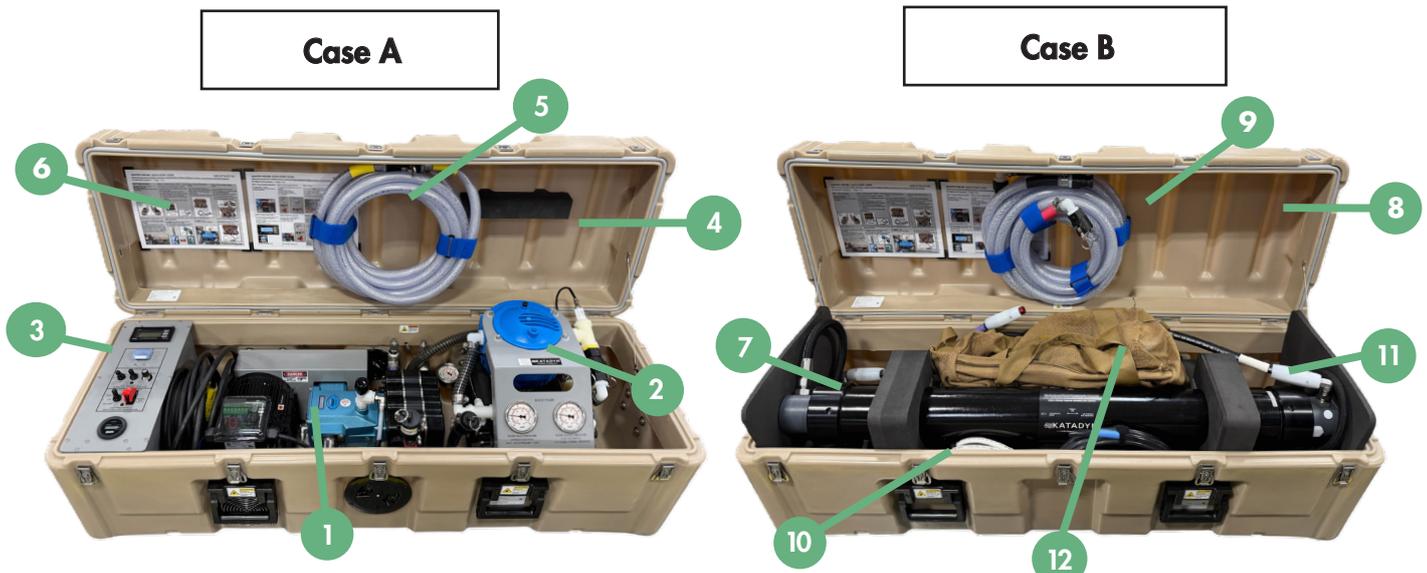
### PRODUCT SPECS

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

## AQUIFER 3000 - PORTABLE DESALINATION SYSTEM



1	Pump Frame
2	Boost Pump Assembly & 5-Micron Prefilter (inside bowl)
3	Control Box Assembly
4	Mil-Spec Plastic Case
5	Boost Pump Extension
6	Quick Start Guides

7	3 x Membrane Housings
8	Mil-Spec Plastic Case
9	Inlet & Brine Hose
10	Boost Pump Extension Cable
11	High Pressure Quick Connect Hoses
12	Storage Bag: Strainer Assembly and Filter Bowl Wrench

### SPARE PARTS AND CONSUMABLES

Part Number	Product
FT-FTC-5BB	5-micron 4" x 10" cartridge filter
KIT-CHEM-SC1	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	Alkaline membrane cleaner
KIT-CHEM-SC3	Acid cleaner

\*Due to unique Katadyn 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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