

AQUIFER 4000 – (NEW) Portable Desalination System



The Aquifer 4000 is a high-volume desalination system designed to make 16 m³ per day (4,300 GPD) of drinking water from any water source including fresh, brackish and seawater. This new highly portable system can be carried easily by a two-person team. The Aquifer 4000 is an energy efficient system that requires a small 3.5 kW generator for operation and was designed to survive in the toughest environments. This system is ideal for Disaster Relief, Humanitarian Programs and applications where portability is a necessity.

PRODUCT SPECS

Article Number: AF-4000
 Salt Rejection: 99.5%
 Technology: Pearson Pump high energy-efficient seawater reverse-osmosis
 Production per Day: 16,275 LPD (4300 GPD)
 Production per Hour: 678 LPH (179 GPH)
 Recovery Rate: 50% fixed
 Feed Water Source: Fresh, Brackish, Seawater
 Voltage: 220VAC
 Power Consumption: 2.6 kWh on seawater
 Watts per Liter: 3.83 W/L
 Water Temperature Limits: Max 43°C (110°F) / Min 2°C (36°F)
 Weight:
 Pump Case A: 65 kg. (145 lbs.)
 Membrane Case B: 72.5 kg. (160 lbs.)
 Mesh Bag: 18 kg. (40 lbs.)
 Dimensions:
 Pump Case A: 1.32m W x 0.46m L x 0.47m H (51-15/16" W x 18-1/32" L x 18-3/8" H)
 Membrane Case B: 1.32m W x 0.46m L x 0.47m H (51-15/16" W x 18-1/32" L x 18-3/8" H)
 Mesh Bag: 0.51m W x 0.91m L x 0.25m H (20" W x 36" L x 10" H)

FEATURES

- High volume universal drinking water solution
- Highly portable - 2-person carry
- Energy efficient - requires only a small generator (generator not included)
- Rugged construction made for survivability in rough environments
- Tool free assembly
- Self-contained control box
- Foot pump priming assist for up to 7m (25') lift
- Serves communities up to 5,400 people (WHO Survival Standard of 3 LPD)
- Heavy duty, military grade shock and impact resistant cases
- Composite construction for superb corrosion resistance
- Fixed system recovery for easy operation and long service life
- 30 ft extendable Boost Pump hose plus a 25 ft intake hose to the Boost Pump
- Spectra Watermakers' world renowned customer service and support, with technicians available online, phone, email and WhatsApp

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Pump Case A



1	Pearson Pump Frame
2	Boost Pump Assembly
3	Control Box Assembly
4	(1) 5-Micron Prefilter
5	(1) Laminated Quick Start Guide
6	(1) Mil-Spec Plastic Case

Membrane Case B



1	(4) Membrane Housings
2	(1) Mil-Spec Plastic Case

Mesh Bag

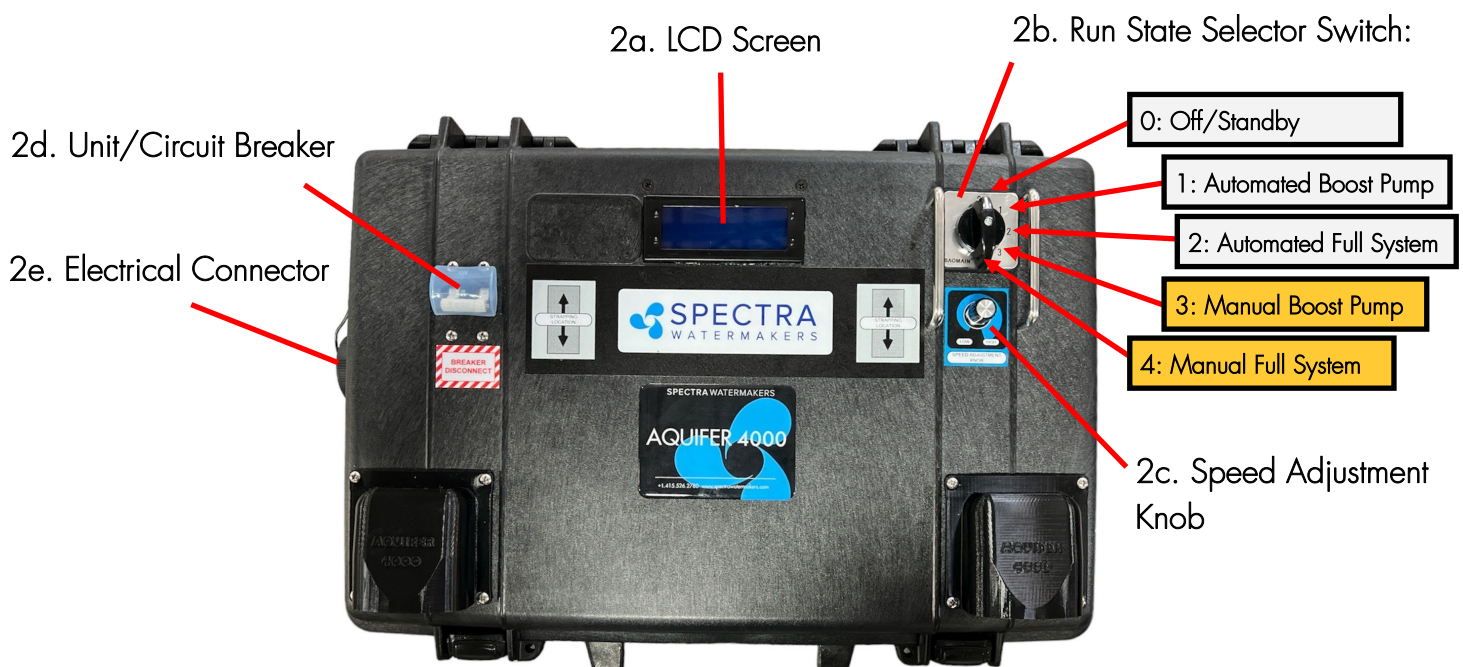


Boost Pump Extension Cord
Wire Harness
Priming Foot Pump
Strainer/Inlet Assembly
Boost Pump Extension Hose
Brine Discharge Hose
High Pressure Quick Connect Hoses
Product Water Adapter Hose
Handheld Salinity Meter & Vent Tape
(3) SC-1 Compound Packets
Filter Bowl Wrench

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Self Contained Control Box Assembly

2a. LCD Screen	This screen displays the run status of the unit (runtime, product water volume and error messages).
2b. Run State Selector Switch	This selects the run state of the unit. There are 5 run states: Standby, Run Boost Pump (Automated), Run Full System (Automated), Run Boost Pump (Manual), and Run Full System (Manual).
2c. Speed Adjustment Knob	This adjusts the speed set point of the Pearson Pump motor allowing the user to adjust the run condition of their unit. Adjusts from approximately 75% production capacity to 100% production capacity.
2d. Unit/Circuit Breaker	This can be used to shut down the unit in an emergency state or cycle power. It will also shut down the unit on an electrical short or misuse condition.
2e. Electrical Connector	This single quick attach connector is used to electrically connect all of the required elements of the system in set up.



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SHIPPING LIST

Pump Case A
Pearson Pump Assembly
Boost Pump Assembly
Control Box Assembly
(1) 5-Micron Prefilter
(1) Guide (3 pages)

Membrane Case B
(4) Membrane Housings

Mesh Bag
Electrical Wire Harness Assembly
High Pressure Hoses
Low Pressure Hoses
Strainer/Inlet Assembly
Storage Chemicals
Priming Foot Pump
Filter Bowl Wrench
Handheld Salinity Meter & Vent Tape