

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

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: 90.7 kg. (200 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 & (1) 5-Micron Prefilter (inside bowl)
3	Control Box Assembly
4	(3) Quick-Start Guides (2 pages)
5	(1) Mil-Spec Plastic Case

Membrane Case B



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

Mesh Bag

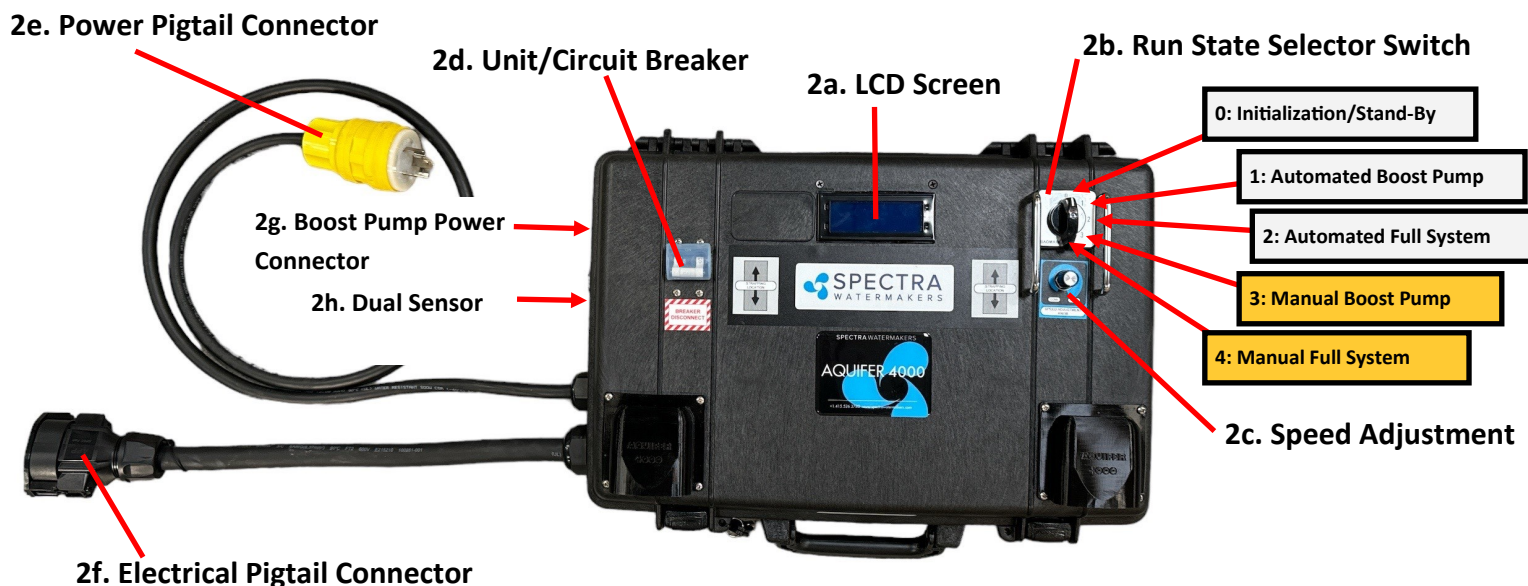


Dual Sensor Cable
Boost Pump Power Cable
Priming Foot Pump
Boost Pump Power Extension
Boost Pump Sensor Extension
Strainer/Inlet Assembly
High Pressure Quick Connect Hoses
Boost Pump Extension Hose
Brine Discharge Hose
Spares Bag
Product Water Adapter Hose
Filter Bowl Wrench

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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. Power Pigtail Connector	This L6-30P power pigtail connector ensures compatibility and seamless integration with any L6-30R receptacle, offering a versatile solution for power connections needed with your system.
2g. Boost Pump Power Connector	This transfers electrical power from the control box to the Boost Pump, enabling the pump for operation.
2h. Dual Sensor Connector	This facilitates the seamless transfer of data or signals from one sensor to another within the system, enabling continuous monitoring or communication between the system.



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SHIPPING LIST

Pump Case A
Pearson Pump Assembly
Boost Pump Assembly & (1) 5-Micron Prefilter (inside bowl)
Control Box Assembly
(3) Quick-Start Guides (2 pages)

Membrane Case B
(4) Membrane Housings

Mesh Bag
Dual Sensor Cable
Boost Pump Power Cable
Priming Foot Pump
Boost Pump Power Extension
Boost Pump Sensor Extension
Strainer/Inlet Assembly
High Pressure Quick Connect Hoses
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SPARE PARTS AND CONSUMABLES

Article Number	Product
FT-FTC-5BB	5 micron 4x10" cartridge filter
KIT-AF-4K-TS	AF-4000 Spares & Tool Kit
KIT-SP5-50R2K5	2,5000 hr SPP5-50 Pearson Pump rebuild kit
KIT-SP5-50R10K	10,000 hr SPP5-50 Pearson Pump rebuild kit
LB-AF4K-BDPB	Pulley Belt Aquifer 4000
KIT-CHEM-SC2	Spectra Alkaline Membrane Cleaner
KIT-CHEM-SC3	Spectra Acid Cleaner
KIT-CHEM-SC1	Spectra Membrane Preservative
KIT-MB-4X40SW*	4" X 40" Membrane Kit (1 per kit, 4 in system)

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