

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

AQUIFER 4000 – (NEW) Portable Desalination System

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

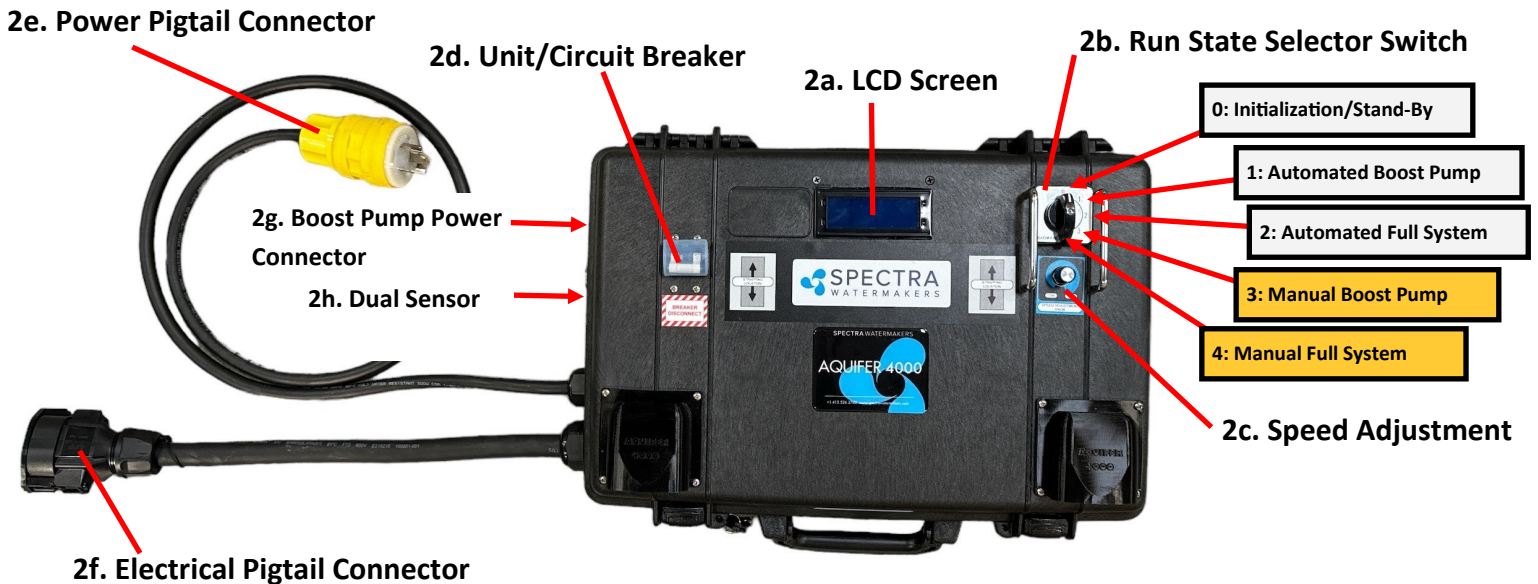


Dual Sensor Cable
Boost Pump Power Cable
Priming Foot Pump
Boost Pump Power Extension
Boost Pump Sensor Extension
Strainer/Inlet Assembly
High Pressure Quick Connect Hoses
Boost Pump Extension Hose
Brine Discharge Hose
Spares Bag
Product Water Adapter Hose
Filter Bowl Wrench

AQUIFER 4000 – (NEW) Portable Desalination System

Self Contained Control Box Assembly

<p>2a. LCD Screen</p>	<p>This screen displays the run status of the unit (runtime, product water volume and error messages).</p>
<p>2b. Run State Selector Switch</p>	<p>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).</p>
<p>2c. Speed Adjustment Knob</p>	<p>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.</p>
<p>2d. Unit/Circuit Breaker</p>	<p>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.</p>
<p>2e. Power Pigtail Connector</p>	<p>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.</p>
<p>2g. Boost Pump Power Connector</p>	<p>This transfers electrical power from the control box to the Boost Pump, enabling the pump for operation.</p>
<p>2h. Dual Sensor Connector</p>	<p>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.</p>



AQUIFER 4000 – (NEW) Portable Desalination System

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
Boost Pump Extension Hose
Brine Discharge Hose
Spares Bag
Product Water Adapter Hose
Filter Bowl Wrench

AQUIFER 4000 – (NEW) Portable Desalination System

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