



Made in the U.S.A.



FACT SHEET

Potable Water Anywhere. No Infrastructure Required.

PRODUCT DETAILS

Production / day	120 Gallons
Production / hour	5 Gallons
Power Consumption	175 watts (120v ac)
Dimensions	8 x 8.5 x 20 in
Feed water parameters	Salt, fresh, or brackish
Weight	25 Pounds (11.4 Kg)
Pre-filter	Carbon and 5 micron combination filter
Controls	Analog
Temperature range	Max 120° F / Min 36° F
Shipping weight	26 Pounds
Shipping Dimensions	16 x 16 x 25.5 in



FACTS

- Minimal electronics
- Simple analog controls for ease of use
- Installation and set up take as little as 10 minutes
- Simple to service
- Low wattage ensures the system can be run on a 200 watt solar panel



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TECHNICAL SPECIFICATIONS

Filtration Process

- Multi-stage prefiltration (sediment and select chemicals)
- High-rejection RO membrane (2514 form factor)
- Field-serviceable components

Operating Pressure

- Up to ~800 PSI (application dependent)

Power Options

- 120V AC (wall power or generator)
- Solar + battery systems (via inverter or DC architecture)

Deployment

- Single-person deployable
- Setup time: <10 minute

WHY ZS-5

- Eliminates bottled water logistics
- Dramatically lowers cost per gallon over mission life
- Deploys in minutes—not days
- Designed specifically for austere, high-risk environments
- Simple maintenance using globally available components
- Modular design allows parallel scaling (multiple units)
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OPERATIONAL ADVANTAGES

- No chemical treatment dependency
- Operates on variable power sources
- Minimal operator training required
- Rapid field maintenance with basic tools
- Suitable for hot, humid, and coastal environments

PRIMARY USE CASES

- Disaster relief & humanitarian response
- Emergency management agencies
- Remote & island communities
- Military, tactical & expeditionary operations
- Marine, coastal & offshore use





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Testing Results

ZS-5 - PLUG AND PLAY WATERMAKER

Below is our independent test results using water found in the intercoastal at high tide.

<u>Contaminate</u>	<u>Feed water</u>	<u>Ro permeate</u>
Arsenic	0.0036 mg/L	Undetected
Barium	0.01 mg/L	Undetected
Magnesium	1300 mg/L	0.81 mg/L
Calcium	400 mg/L	0.29 mg/L
Potassium	640 mg/L	4.2 mg/L
Sodium	11000 mg/L	87 mg/L
Total Hardness (as CaCO₃)	6100 mg/L	4.1 mg/L
Heterotrophic Plate Count	71.0 MPN/1mL	28.0 MPN/1mL
Coliform Total	183 #/100mL	Undetected
Sulfate	2700 mg/L	2.4 mg/L
Conductivity	40000 umhos/cm @ 25° C	500 umhos/cm @ 25° C
Total Dissolved Solids	34000 mg/L	220 mg/L