



The Mission of WorldWater & Solar Technologies is to make clean water and power available everywhere in the world through its proprietary solar technology

*Cost Effective
Quiet & Pollution Free Low
Maintenance Reliable &
Efficient*

MOBILE MAXPURE™

Series 1

The Mobile MaxPure™ is a fully integrated, turnkey solar solution designed to pump, filter, purify and desalinate water, as well as provide auxiliary power and communications. The system utilizes proprietary and patented technologies. Features included:

- Provisions of up to 30,000* gallons of clean drinking water each day from wells, rivers, lakes and other fresh water sources
- Desalination system utilizes reverse osmosis (RO) for brackish or seawater desalination/purification up to 4,000* gallons daily
- 3.3kW folding solar array; supplies up to 3kW peak power AC electricity through its on-board inverter; both AC and DC electricity are available through the Load Center to provide critical power to electronics and appliances
- A 31 kWh battery bank provides power for night time operation. The batteries are maintenance free GEL type and are rated “non - hazardous” for transportation
- Capable of charging phone, laptop other necessities from battery bank
- An environmentally friendly system producing no noise or pollution during operation
- No gasoline, diesel or external power source required for operation
- An optional satellite voice and data communication system available
- If water purification unit is bypassed, unit is able to pump 70,000 – 100,000 gpd for flood dewatering or irrigation

*Assume 5.5 peak-equivalent solar hours for freshwater output and 8 peak-equivalent solar hours for RO output; fewer solar hours will result in decreased operating time and output. An auxiliary generator input is built to extend operation as needed.

Freshwater Filtration and Purification

5 Stage Process

- 1) Reusable, polycarbonate coarse debris filter
- 2) Bag filter for increasing the life of filters and reducing particle size to 100 microns or less
- 3) Media filter for removing turbidity and reduce particle size to 5 microns or less.
- 4) Carbon cartridge filtration to further reduce particle size to 0.5 microns or less
- 5) Sterilization by ultraviolet light.

Reverse Osmosis Filtration and Desalination

4 Stage Process

- 1) Reusable, polycarbonate coarse debris filter
- 2) Media filter for removing turbidity and reduce particle size to 20 microns or less
- 3) Media filter for removing turbidity and reduce particle size to 5 microns or less
- 4) Desalination membranes to remove bacteria, viruses and dissolved solids such as salts



Water Power & Communications



Aid & Development



Defense & Security



WorldWater’s purification and Reverse Osmosis (RO) desalination processes are state of the art, removing dirt, silt, sand, bacteria, pathogens, cysts, viruses and the RO system also removes total dissolved solids.

- No chemicals added to water in filtration and purification process (chlorination or ozone unit optional)
- Freshwater systems have a parallel filtration allowing for continuous purification even during maintenance
- Reverse osmosis (RO) systems are available for water with a salt concentration up to 45,000 PPM (seawater ≈ 33,000 PPM)
- Comes with one year of consumables, all necessary hoses, pumps, fittings, tools and more



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Logistical cost savings - instant infrastructure - easily transportable



CATEGORY	#	UNITS/DESC.	DATA US (METRIC)
EXT. DIMENSIONS:		OPEN	17 x 15-foot width/length, 11 x 4-foot high (5.1mx 4.5mwidth/length,3.3mx 1.2m high)
EXT. DIMENSIONS:		CLOSED	7 x 7 x 7-foot (2.1 x 2.1 x 2.1m)
WEIGHT:		DRY	Approx. 6200 lbs. (2812 kg)
CONSTRUCTION:		VARIOUS MATERIALS	Powder-coated steel, aluminum, synthetic platform, hydraulically deployed
SOLAR PANELS:	18	TOTAL WATTAGE	3.3 KW
BATTERIES:	12	CAPACITY	AGM/Gel non-spillable and non-hazardous; 31 kWh bank
INVERTER:	1	VDC/VAC/kW	48VDC in : 120/240 VAC 50/60 HZ out : up to 3kW peak power
CHARGE CONTROLLER:	1	CURRENT	MPPT, 60A

PURIFICATION PACKAGES

(purification subassemblies can be purchased separately and substituted for one another in the field)

FRESHWATER FILTRATION:	Up to 30,000 gallons (113,530 liters) per day	Biological and sediment contaminated freshwater sources.
BRACKISH WATER FILTRATION & RO:	Up to 4,000 gallons (15,150 liters) per day	32,000 parts per million of total dissolved solids, biological and sediment contaminated brackish water sources.
SEAWATER FILTRATION & RO:	Up to 3,000 gallons (11,350 liters) per day	45,000 parts per million of total dissolved solids, biological and sediment contaminated seawater sources.
NO FILTRATION:	Up to 70,000 gallons (262,780 liters) per day	By passing the filtration system for pumping-only or dewatering activities, the Series 1 can pump up to 70,000 gallons of water each day.



* Patents
 #US 6,275,403,
 #US 6,583,522,
 Patent pending
 #4564