



## WGS-900 Frequently Asked Questions

### 1. What are the dimensions and weight of the WGS-900?

180 cm x 173 cm x 155 cm (W x L x H), Weight = 865 kg  
 7 inches' x 6 inches' x 61 inches (W x L x H), Weight = 1907 lbs

### 2. Has the collected water been tested for purity and quality?

Yes! Water collected from the WGS-900 exceeds the quality requirements of the Environmental Protection Agency (EPA), World Health Organization (WHO), and Saudi Arabia Standards Organization (SASO). A water quality test report can be provided upon request.

### 3. Can the WGS-900 be operated with solar power?

Absolutely! The WGS-900s only input is electricity; therefore, it can operate using power collected from any type of renewable source.

### 4. What is the power consumption of the unit at different atmospheric conditions?

The table below (Figure 1) describes the total power consumed by the unit at a variety of conditions. Keep in mind that as the temperature or relative humidity go up so too does water production!

Figure 1.

Temperature DB °F/°C	Relative Humidity (%RH)	Total Power Consumption (kW/Hr)
60 / 15.6	70	3.18
70 / 21.1	40	3.43
70 / 21.1	60	5.20
70 / 21.1	80	8.32
77 / 25.0	55	9.34
80 / 26.7	40	6.36
80 / 26.7	60	11.05
80 / 26.7	85	19.17
90 / 32.2	35	10.90
90 / 32.2	70	21.45
95 / 35.0	50	20.84



### 5. How much water is the WGS-900 capable of producing per day?

Water production is influenced by how much water is present in the atmosphere at a given time. Below is a table (Figure 2) that predicts how much water will be produced at a variety of atmospheric conditions.

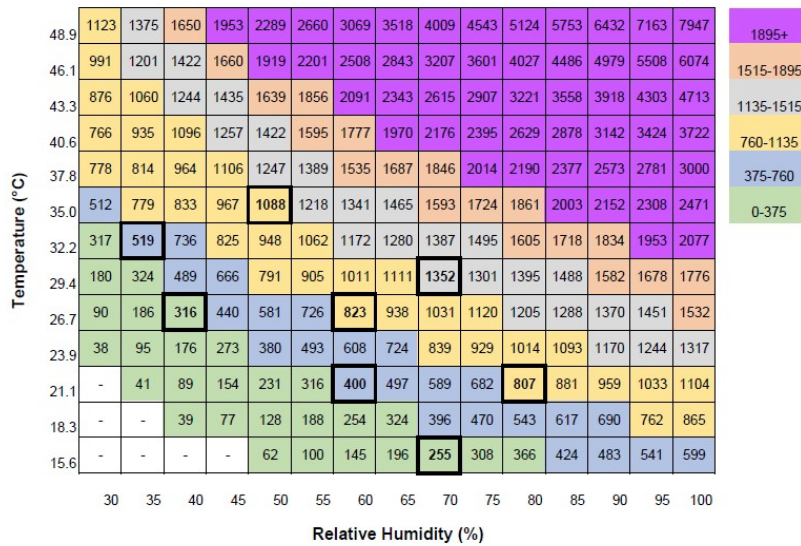
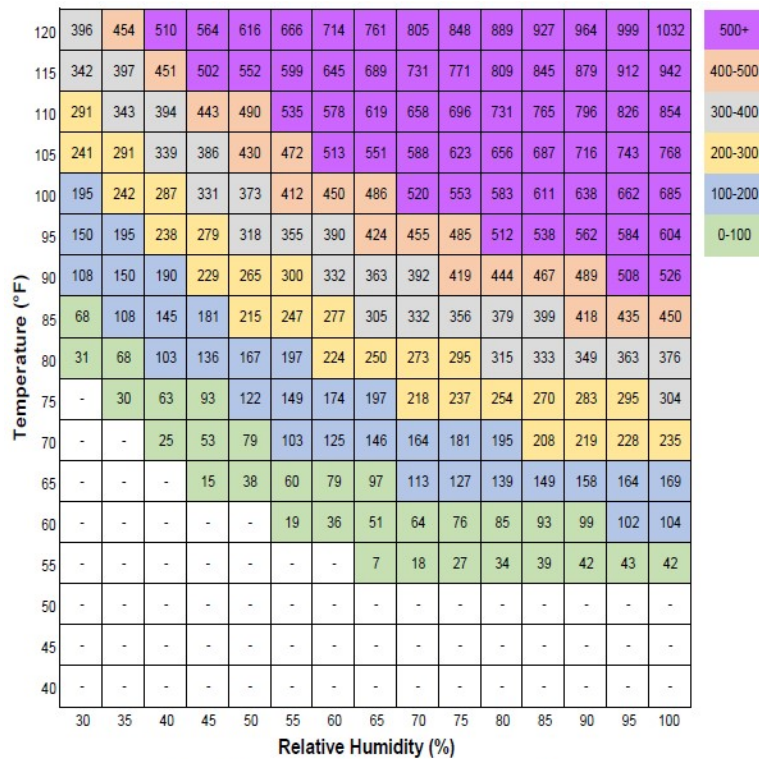


Figure 2.



Production in Gallons per Day

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## 6. What does it cost to produce a liter of water?

The cost of water is most dependent on the cost of electricity. Below are a couple examples of the total cost of water for three different geographic locations. The total cost includes the depreciated cost of the unit, cost of energy, and maintenance costs:

Water Production @ 80°F, 60% Relative Humidity

- \$0.020/Liter - Jeddah (Saudi Arabia)
- \$0.036/Liter - Abu Dhabi (United Arab Emirates)
- \$0.068/ Liter - Santa Barbara (California, United States)

## 7. What are the monthly maintenance costs?

When amortized over a one-year period, maintenance costs equate to approximately \$78.00/month. Below is a table (Figure 3) showing annual maintenance activities.

Figure 3.

Component	Action Description	Frequency
Compressor	Inspect for dirt, rust, and oxidation of electrical terminals. Check fault codes logged in the VFD.	6 months
Frequency Drive	Check for fault codes	6 months
Condensers	Clean coil	12 months
	Inspect for dirt, corrosion, and leaks	6 months
Fan	Inspect for possible debris	6 months
Fan Motor	Check for fault codes	6 months
Air Filters	Inspect, remove, and replace	6 months
UV Purification Tube	Remove and replace	12 months
Carbon Filter	Remove and replace	12 months
Sediment Filter	Remove and replace	6 months
Condensate Pan	Clean components	6 months
Tubes and Filter Housings	Clean components	6 months

## 8. What is a top-level breakdown of manufacturing costs?

Manufacturing costs are dependent on the geographical location of the work being performed. The manufactured cost will be influenced by labor rates, commodity pricing, manufacturer tooling, etc. There is, however, a core technology package that is provided as a fixed cost which comprises the system components that produce the unit's industry leading efficiency. These costs can be provided upon request.

## 9. What is the output temperature of the water?

The water harvested is cooled when first collected; however, the WGS-900 does not store water. The storage methods and use of the water is to be at the user's discretion. Proper methods of collection, storage, and long-term treatment are described in WGS's Operator Manual.



**10. Can the WGS-900 be provided without the water purification system if the collected water will not be consumed?**

Yes! The WGS-900 can be provided with multiple levels of water treatment.

Level #3 – Drinking water

Level #2 – Sediment filtration

Level #1 – No filtering

**11. What is the retail price of a WGS-900 Model Water Harvester?**

\$30,000 FOB Michigan

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