



WATER FROM AIR

The Arroyo™ 500 provides potable water from air for military and humanitarian needs in the harshest environments. A 72-hour countdown on human lives starts when a drinking water source is lost. Deployed troops and civilians affected by disaster are not always in a high humidity environment or near a water source that can be cleaned. The Arroyo can be rapidly deployed to expand operational ranges and save lives in these deadly conditions. By recovering and purifying ambient humidity to make water from air, the Arroyo can significantly reduce existing logistical burdens.

The Arroyo concentrates humidity using a custom high-temperature desiccant wheel to draw moisture out of the air. The wheel is loaded with moisture by flowing air through the Arroyo. Waste heat from other system components is used to efficiently heat the flowing air to remove moisture from the wheel. The air is then cooled and the condensed water is filtered and treated with chlorine before being collected in storage tanks. This revolutionary technology allows the efficient creation of water in almost any environment, including dry, desert environments.

It costs approximately \$18 per gallon to deploy water to the field in Iraq and Afghanistan using traditional transport methods. The Arroyo can produce a gallon of water on demand for roughly 50 cents per gallon without putting additional troops at risk.



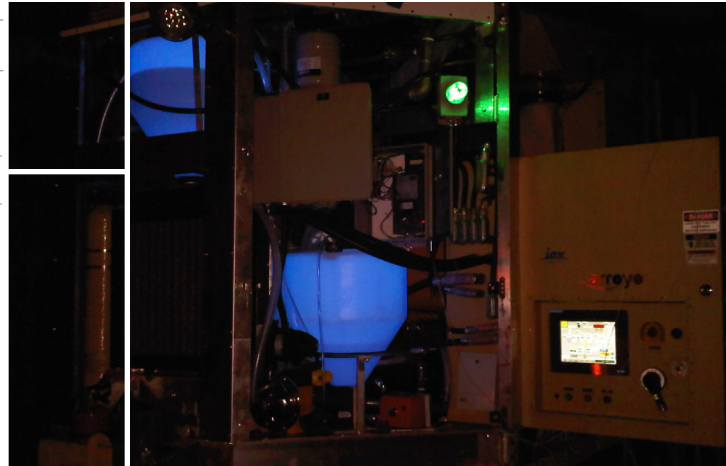
## FEATURES

- Produces up to 500 gal/day of potable water in desert conditions
- Scalable design allows for custom water-production rates
- Requires only fuel and air to operate
- Onboard water production, storage and power source
- Internal fuel tank allows 22 hour run-time unattended
- Rapid deployment for humanitarian and military needs by transport vehicles, Chinook helicopter or C-130 aircraft



## SPECIFICATIONS

Water Production Rate	Up to 500 gal/day in desert conditions
Fuel Requirements	JP-8 (including jet fuel, kerosene) and diesel (including biodiesel)
Size	14 ft x 8 ft x 12 ft
Weight	~22,000 lbs (including trailer)
Transport Method	HEMTT (trailer), rail, CH-47D (air lift), C-130 (air)
Operational Time	22 hours run time per tank of fuel
Operational Temperature	20°F to 120°F (-7°C to +49°C)
Operational Relative Humidity	5 to 100%
Operational Elevation	0 to 10,000 ft
Operational Rain, Sand and Dust	IAW MIL-STD-810F



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