



Military Applications for the H2gO Purifier



Safe drinking water is one of the most critical components for military personnel. Armed forces and SERE (Survival, Evasion, Resistance, and Escape) specialists require a minimum of one gallon (4 L) of water per person per day to avoid dehydration, which can impair physical and cognitive abilities, including decision-making and reaction time. Waterborne illnesses from contaminated water can result in mild to severe diarrhea, fever, and body aches, making it impossible to complete a mission.

Each gallon of water adds 8.3 lbs (3.8 kg) of weight to an already heavy load, making field-treatable water essential. In addition, treatment methods must address viruses, bacteria, and parasites, all of which are potential risk factors in survival settings, particularly urban disasters and international locations. Last, resupply factors must be considered, particularly in war zones and disaster settings where personnel may not be able to replenish consumable supplies.

The 3.8-oz (108 g) H2gO Purifier by Aqua Research is a portable disinfectant generator that meets NSF/ANSI P231 and P248 Microbiological Water Purifier standards for viruses, bacteria, and protozoa in clear or cloudy water. Using just a few grains of salt, it produces a powerful chlorine-and-peroxide disinfectant. The H2gO PRIME (black label) delivers 5 mg/L free available chlorine (FAC) per TB MED 577 guidelines, offering a lifetime capacity over 16,000+ gallons (60,000 L) of treated water. The H2gO GLOBAL (blue label) doses 2.5 mg/L FAC. The H2gO can serve for drinking water disinfection, hand sanitizer, wound care, or surface germicide. The unit recharges via USB-C or its built-in solar panel and carries an IP67 rating for dust protection and 1-meter water resistance for 30 minutes.



Superior to both conventional chlorine and iodine tablets, the H2gO's microorganism inactivation performance has been validated by independent testing. Moreover, the H2gO Purifier has been designed to mil spec standards for durability, surviving shock, vibration, freeze/thaw, drop, and 300-pound (136-kg) load tests. The system comes in two configurations:



- **H2gO PRIME** (black) – delivers a 5 mg/L dose to kill viruses, bacteria, Giardia, and Cryptosporidium with one dose
- **H2gO GLOBAL** (blue) – delivers a 2.5 mg/L dose to kill viruses and bacteria in one dose and Giardia and Crypto with a double dose

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Specifications, acquisition details, and testimonials follow.

Aqua Research, Inc.

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Specifications Table

	H2gO PRIME	H2gO GLOBAL
Standard Dose	5 mg/L	2.5 mg/L
Inactivation Results	Single Dose (5 mg/L): <ul style="list-style-type: none"> • 99.99% of viruses • 99.9999% of bacteria • 99.9% of protozoa 	Single Dose (2.5 mg/L): <ul style="list-style-type: none"> • 99.99% of viruses • 99.9999% of bacteria Double Dose (5 mg/L): <ul style="list-style-type: none"> • 99.9% of protozoa
Volume Settings	1, 2, 3, 5, or 10 L at 5 mg/L	1, 2, 5, 10, or 20 L at 2.5 mg/L
Lifetime Capacity	16,000+ gals (60,000+ L) at 5 mg/L	32,000+ gals (120,000+ L) at 2.5 mg/L
Battery Capacity	<ul style="list-style-type: none"> • 32 gallons (120 L) per charge • 500+ charges • ½ gal/hr (2.5L) of solar charge 	<ul style="list-style-type: none"> • 65 gallons (240 L) per charge • 500+ charges • 1 gal/hr (5L) of solar charge
Weight	Purifier: 3.8 oz (108 g); Brine Bottle: 0.5 oz (14 g)	
Size	Purifier: 1.7"W x 3.7"H x 1.1"D; (4.3 cm W x 9.2 cm H x 2.8 cm D) Brine Bottle: 1.8"W x 3.3"H x 0.9"D; (4.5 cm W x 8.5 cm H x 2.4 cm D)	
UPC/GTIN	198715419139	198715907247

Acquisition Information:

- **CAGE code:** 5PW71
- **UEI:** PXHHLCG5NQL6
- **SAM Expiration:** 12/8/2026
- **Form 889 Certified:** Yes
- **D-U-N-S number:** 111279372

Supplier Contact Information:

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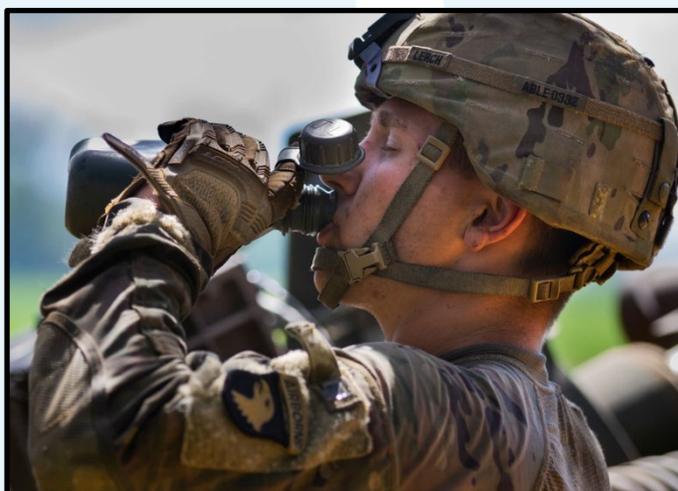
"This device that fits in the palm of my hand can give you unlimited disinfecting ability of water. Also, it is solar chargeable. It's pretty impressive, if you ask me." – Prepared Airman, USAF

"This is an awesome piece of kit to have whenever you are in the field or overseas in areas where drinking water is questionable...I am impressed by the size of the unit, and wish I had something like this 40 years ago as a young Special Forces Soldier." – Richard

"Simple and magical contraption that provides another approach to drinking water safely. Been bringing it out onto wildfires I'm working as a squad boss and it's amazed everyone I've shown it to." – Levi Melecio

"I am in awe of this system because for years I was talking about using either 2-4 drops of 6% sodium hypochlorite or tincture of iodine. This right here eliminates all the BS...don't gotta carry bleach, don't gotta carry iodine...This system allows you to create solutions to treat wounds, hand sanitizer, wipe areas down for fresh produce, food prep, medical utensils, and so on...In my opinion, there is no downside." – Shawn Kelly, US Marine Corps

Testimonials



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