

USE CASE



SNOWBIRD ATMOSPHERIC WATER GENERATORS

Capability Focus: Support Marine Corps INDOPACOM operations with autonomous potable water generation in austere, distributed environments

The **Atmospheric Portable-Water Sustainment Unit (APSU)** provides Marines with an on-site potable water source by extracting moisture from ambient air, reducing dependence on external water resupply and improving sustainment in austere Pacific conditions. Integrated with the Marine Corps' Lightweight Water Purification System, the APSU delivers 15–20 gallons of potable water per day, limited only by power availability and storage capacity—enough to sustain a squad-sized element.

LOCATION: Marine Corps Base Hawaii

APPLICATION: 3rd Marine Littoral Regiment, Combat Logistics Battalion — The INDOPACOM region's long distances, sparse infrastructure, and dispersed littoral terrain create significant water logistics challenges. Traditional resupply via sea or air is costly, risk-prone, and vulnerable in contested environments. **APSU's capability to generate water at the point of need directly supports distributed, expeditionary operations central to INDOPACOM's operational requirements.**

RESULTS: Paired with the Lightweight Water Purification System, APSU produced **15–20 gallons every 24 hours**. With USMC fluid intake guidelines of 3–4.5 quarts/day for men and 2–3 quarts/day for women, **a single APSU can sustain approximately 1–1.5 squads per day** under typical consumption rates.

WWW.SNOWBIRDTECH.COM/AWG



"The appearance of U.S. Department of Defense (DoW) visual information does not imply or constitute DoW endorsement."