Product factsheet

AQUA MOBILE™ - GALMOBILE's Flagship Mobile Water Purification and Desalination System

Hardware product or technological device



Description

AQUAMOBILE™ – Mobile Water Purification & Desalination Innovation

AQUAMOBILE™ is the world's first fully independent, mobile, turnkey water purification and desalination system, designed to deliver safe drinking water from any water source - rivers, lakes, oceans, wells, or contaminated supplies, within minutes of deployment. Mounted on a light vehicle, it provides rapid, reliable, and high-quality drinking water for communities, emergency situations, humanitarian missions, and military operations.

Aqua Mobile Highlights:

- Produces 5,284–31,000 gallons/day from any source, including CBRN-contaminated water.
- Infrastructure-independent – one-person operation, no external power or water connection.

- Vehicle-mounted – supports decentralized, mobile, autonomous supply and reduces convoy requirements.
- Demand reduction – on-site production cuts fuel use and transport needs.
- Smart Control & Monitoring – automated operation with remote monitoring, real-time water quality data, and safety controls.
- Compact Mobility Design – all systems packed into a mobile platform for easy transport and immediate operation.

Application Scope

- **Emergency Response**: natural disasters (floods, earthquakes, typhoons, droughts).
- **Humanitarian Aid**: refugee camps, remote villages, field hospitals.
- **Military & Defense**: field units, bases, rapid deployment missions.
- **Civil Infrastructure Support**: backup for municipalities, water corporations, and rural communities.
- **Development Projects**: sustainable water access in remote regions.

Key Advantages & Unique Features

- **Independence**: no need for pre-existing infrastructure, pipelines, or electrical grid.
- **Speed**: operational in less than 30 minutes, delivering potable water immediately.
- **Capacity**: supplies safe drinking water for up to 20,000 people per day from a single unit.
- **Versatility**: treats fresh, brackish, or seawater equally efficiently.
- **Plug & Play**: simple to operate by one trained person with minimal maintenance.
- **Resilience**: proven performance in harsh climates

Ground-Breaking Aspects

- **First-of-its-kind integration**: combines mobility, autonomy, and high-capacity water treatment into one platform.
- **Rapid deployment in crisis zones**: unlike traditional stationary plants, GALMOBILE™ goes directly to the source of need.
- **Proven in real-world operations**: deployed successfully in humanitarian crises, and national emergency preparedness programs.
- **Sustainability & scalability**: modular units can work standalone or in fleets, providing community-scale water supply anywhere.

How It Works in Practice

When deployed, the unit connects to any nearby water source. Raw water passes through pre-filtration, advanced RO membranes, and final disinfection before being stored in onboard tanks or pumped directly to distribution points. The system powers itself independently, requires no setup of infrastructure, and can be transported easily to the next location once the mission is completed.

In real terms, AQUAMOBILE™ can drive into a flood-stricken village cut off from clean water, start operations within minutes, and provide thousands of liters of safe drinking water daily until infrastructure is restored — effectively saving lives and preventing disease outbreaks.

Target audience

Emergency Preparedness and Disaster Response GALMOBILE™ is specifically designed to provide clean drinking water during emergencies such as natural disasters (floods, earthquakes, droughts) or other crises. Our primary customers include governments, emergency management agencies, and municipalities seeking to enhance their readiness to deliver life-saving water supplies rapidly in critical situations. Isolated and Remote Areas GALMOBILE™ is ideal for regions without reliable access to potable water, including rural areas and villages. The system is fully independent and can purify water from any source within minutes, ensuring a safe water supply even in the most challenging and remote locations. Military and Defense Forces Armed forces and defense units operating in field conditions require reliable, portable water solutions. GALMOBILE™ provides a highly mobile, durable, and energy-independent system capable of supporting troops during missions.

Unique selling points

Specific Problems Solved

- Lack of access to safe drinking water in disaster-hit or remote areas.
- Waterborne disease outbreaks following floods, earthquakes, or refugee crises.
- Delayed response in emergencies caused by reliance on bottled water or slow-to-build infrastructure.
- Limited logistics capacity – eliminates the need to transport heavy bottled water.
- Energy dependency – operates without reliance on external power grids.
- Infrastructure gaps – provides immediate water supply to communities without existing systems.

Publications

GALMOBILE™ has been recognized globally, including as a **flagship project by Polaris Worldwide**, demonstrating measurable impact in disaster relief and water scarcity mitigation.

Ranger Stories: Driving Change - GALMOBILE™, Israel

URL

https://galmobile.co.il/

Technology applied by the product

- **Water Quality and Standards**

Related tag

water supply

Downloads

The following file can be downloaded from the online page of the product: https://mp.watereurope.eu/d/product/195

- AQUA MOBILE™
  Mobile water purification & desalination system