



## WATER GENERATION UNIT – GEN-35V

Troops on combat missions rely on a continuous supply of water to successfully carry out their duties. However, providing the required amount per soldier per day is not an easy task if one must rely on the limited water cans that a vehicle can carry. The GEN-35V provides an excellent solution to this requirement by producing water from air to support the troops. It produces high quality water right on the vehicle and can dispense cold water from a tap inside the cabin. This solution reduces the logistical burden on mobile units and provides a continuous supply of drinking water.

### General

- Simple installation on any vehicle. Requires only a connection to a power source.
- Produces 9 gallons (35 liters) per day, at 77° F (25° C) and 55% RH.
- Can produce up to 16 gallons (60 liters) per day under optimal conditions.
- Connects to a standard water can.
- Water is kept continuously clean and sterile using UV technology.
- Required minerals are added for taste and health.
- Unit is designed to automatically overcome water freezing conditions.

### Highlights

- Water is dispensed cold. The dispensing system is located inside the cabin of the vehicle to provide water directly to the troops.
- Water quality meets TBMED 577 (USA) and NATO STANAG 2136 & 2885.
- Water production is optimized for given temperature and humidity conditions by the unique Mistral Water control system.



PRIDE  
PASSION  
PERFORMANCE

## Main Specifications

1. Electrical requirements:
  - a. Working power: 0.9-1.2 kWh (depending on environmental conditions).
  - b. Electrical compatibility: As per MIL-STD 1275D, MIL-STD 461F.
2. Dimensions (H x W x L): 17" x 19" x 23.5" (430mm x 490mm x 600mm).
3. Weight: 154 lbs. (70Kg).
4. Noise level: 70 dBA max.
5. Shipment: Lifting handles (two men).
6. Water quality: Complies with TBMED 577 (USA), NATO STANAG 2138, 2885.
7. Maintenance and serviceability: Easily accessible for replacement and service.
8. Operator signals: On/Off. Fault.
9. Temperature:
  - a. Storage shipment, not-operational temperatures: -4°F to 165°F (-20 to 75°C).
  - b. Working temperatures: 45°F to 115°F (7°C to 45°C).
10. Life Span: 7 years.
11. Environmental standards: as per MIL-STD-810G with reference to relevant vehicle behavior.

## Water Purification Segment

1. Filtration elements:
  - a. Air filter.
  - b. Sediment filter.
  - c. Chemical filter.
  - d. UV element.
  - e. Mineralization element.
2. Two purification:
  - a. Produced water purification.
  - b. Water storage circulation and preservation.

## Maintenance

1. Filter replacement: 6 months.
2. Unit sterilization: 6 months.
3. UV bulb replacement: 12 months.
4. Air filter replacement: 12 months.

## Water Production

1. Air directions: Air is released from left side (can be adjusted to the opposite direction if required).
2. Blower: Air flow is regulated with respect to ambient temperature and humid conditions, evaporator and condenser temperatures, and variable air filtration pressure.
3. Efficiency: The unit houses patented Mistral Water technology designed to improve energy efficiency and increase water production.
4. Freezing conditions: the unit is designed to automatically overcome freezing conditions.

## Water Storage and Dispensing

1. Storage: Unit can control 2 standard jerry-cans.
2. Dispenser:
  - a. External, protected, mechanically operated.
  - b. Pouring is inside the cabin of the vehicle.
3. Flow rate: 0.4-0.5 gallon/min (2 Lit/min)
4. Water temperature: Continuous 54-60°F (12-16°C).



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