Transportability Guidance
WATER PURIFICATION EQUIPMENT SET,
DIATOMITE FILTER, 1500-GPH, TRUCK MOUNTED

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1. Purpose

This manual provides transportability guidance in the shipment or movement of the Water Purification Equipment Set, Diatomite Filter, 1500-GPH, Truck Mounted (fig. 1).

2. Scope

a. The information contained in this manual covers significant transportability and safety considerations in the movement of the item by the various modes of transport. Included are side- and end-elevation drawings (figs. 2 and 3), and characteristics of the item.


3. Description

The water purification equipment set consists of a truck-mounted van; two 1500-gallon collapsible fabric tanks; and a 10-kw generator, mounted on the Trailer, Cargo, 1 1/2-Ton, M105A2. For transport, the two tanks, collapsed, are stowed in the van or on the cargo trailer. The van is mounted on a Chassis, Truck, 2 1/2-Ton, 6 x 6, M45. The M105A2 trailer with 10-kw generator mounted thereon poses no transportability problem and is not included in this manual under surface modes of transport. It is included in the air transport section for movement by the C-130 U.S. Air Force aircraft.

4. Modes of Transport

(Figures in parentheses throughout this manual are metric equivalents.)

a. Shipment by Air.

(1) The item is not transportable by U.S. Army aircraft.

(2) Based on a typical logistical mission of 2,500 nautical miles (4625 km), one way, the item, without sectionalization, is within the dimensional and weight capabilities of the C-124C and the C-133-series U.S. Air Force aircraft. After sectionalization, as described in paragraph 3, the van body and the truck chassis together are
within the dimensional and weight capabilities of the C-124C, C-130B, C-130E, and C-141 U.S. Air Force aircraft.

(3) Based on a typical logistical mission of 1,000 nautical miles (1852 km), one way, and after sectionalization as described in paragraph 5, the van body and the truck chassis together are also within the dimensional and weight capabilities of the C-124A and the C-130A U.S. Air Force aircraft.

Shipped separately, either the van body or the truck chassis is within the dimensional and weight capabilities of the C-119G and the C-123B U.S. Air Force aircraft.

Note. The maximum U.S. Air Force aircraft cargo weight and range capabilities are based on the following conditions:
- Standard day conditions
- Sea level operating conditions
- Hard-surfaced runways
- No weather alternate required
- No wind conditions
- Fuel reserve
- Constant cruising altitude

In the event one or more of these operating conditions are changed, the maximum cargo load and/or range may be affected.

(4) See paragraph 6 for loading and restraining procedures of the item and the supporting power unit (10-kw generator mounted on the M105A2 trailer) in the C-130 U.S. Air Force aircraft.

b. Shipment by Highway.

(1) On road. The item is transportable by highway under its own power. The width of the item exceeds legal highway limitations in CONUS and the recommended highway limitations in overseas areas. Special permits will be required in CONUS, and special routing may be required in overseas areas. See figure 4 for turning characteristics.

(2) Off road (Soils Trafficability Data).