ARMY
MARINE CORPS

***TM 10-4610-215-24**
TM 08580A-24/2

TECHNICAL MANUAL

UNIT
DIRECT SUPPORT AND
GENERAL SUPPORT
MAINTENANCE MANUAL

WATER PURIFICATION UNIT,
REVERSE OSMOSIS,
600 GPH TRAILER MOUNTED,
FLATBED CARGO
5 TON 4 WHEEL TANDEM
MODEL ROWPU 600-1
(EIC-ZII)
(4610-01-093-2380)
AND
600 GPH SKID MOUNTED
MODEL ROWPU 600-3
(4610-01-113-8651)

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INTRODUCTION

UNIT
MAINTENANCE INSTRUCTIONS

DIRECT SUPPORT
MAINTENANCE INSTRUCTIONS

GENERAL SUPPORT
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ALLOCATION CHART

TORQUE LIMITS

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*Supersedes TM 5-4610-215-24, 15 JUNE 1987

HEADQUARTERS, DEPARTMENT OF THE ARMY
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TECHNICAL MANUAL

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HEADQUARTERS, U. S . MARINE CORPS
WASHINGTON, D.C., 27 MARCH 1992

UNIT, DIRECT SUPPORT, AND GENERAL SUPPORT MAINTENANCE MANUAL WATER PURIFICATION UNIT REVERSE OSMOSIS, 600 GPH, TRAILER-MOUNTED, FLATBED CARGO, 5-TON, 4 WHEEL TANDEM, MODEL ROWPU 600-1, (EIC-ZII) NSN 4610-01-093-2380 (U.S. ARMY) AND WATER PURIFICATION UNIT. REVERSE OSMOSIS, 600 GPH, SKID-MOUNTED MODEL ROWPU 600-3 NSN 4610-01-113-8651 (U.S. MARINE CORPS)

REPORTING ERRORS AND RECOMMENDING IMPROVEMENTS

You can help improve this manual. If you find any mistakes or if you know of a way to improve the procedures, please let us know. Mail your letter, DA Form 2028 (Recommended Changes to Publications and Blank Forms), or DA Form 2028-2 located in the back of this manual, direct to: Commander, U.S. Army Troop Support Command, ATTN: AMSTR -MMTS, 4300 Goodfellow Boulevard, Saint Louis MO 63120-1798. A reply will be furnished directly to you. Marine Corps users submit NAVMC Form 10722 to: Commanding General, Marine Corps Logistics Base (Code 850), Albany Georgia, 31704-5000. A reply will be furnished directly to you.

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CHAPTER 1

INTRODUCTION

Section I. GENERAL INFORMATION

1-1. **SCOPE.**

Type of Manual: Unit, Direct Support, General Support Maintenance, Model Number, and Equipment Name:

ARMY MODEL ROWPU 600-1
600 GPH ROWPU TRAILER MOUNTED (Figure 1–1)
MARINE CORPS MODEL ROWPU 600-3
600 GPH ROWPU SKID MOUNTED (Figure 1 –2)

Purpose of Equipment: The ROWPU purifies up to 600 gallons (2,270 liters) of drinking water per hour from impure water, even seawater.

1-2. **MAINTENANCE FORMS, RECORDS, AND REPORTS.** Department of the ARMY forms and procedures used for equipment maintenance will be those prescribed by DA PAM 738–750. The Army Maintenance Management Systems (TAMMS). USMC personnel refer to TM 4700–1 5/1 for equipment records and forms procedures.

1–3. **DESTRUCTION OF ARMY MATERIAL TO PREVENT ENEMY USE.**

a General. When capture or abandonment Of the 600-GPH (2,270-LPH) ROWPU IS Imminent, the responsible unit commander must make the decision to either destroy the equipment or render it inoperative Based on this decision, orders are issued that cover the desired extent of destruction. Whatever method of demolition is used, it is essential to destroy all vital parts of the equipment and all corresponding repair parts.

b. Demolition by Mechanical Means. Cut all hoses and flexible lines such as raw water pump hose, filter hose. and chemical feed lines. Cut electrical wires, puncture tires, smash control panel lights, switches, gages and timer.

c. Scattering and Concealment. Remove wheels (army), valves, and timer. Dismantle pumps, Scatter these parts in dense foliage, bury them in dirt or sand, or throw them into a lake, stream, well, or any other body of water.

d. Burning. Disconnect all hoses and any other flammable material from the unit and stack around the water tank and pumps. Soak these items with gasoline, oil, or diesel fuel and set afire.

e. Submersion. Submerge trailer pumps, gages, fittings, and removable parts in a body of water to provide concealment and water damage. Saltwater does greater damage to metal parts than freshwater.

1-4 **PREPARATION FOR STORAGE OR SHIPMENT.** Requirements for preparation for storage or shipment, including administrative storage, are covered in Section Vl, Chapter 2, Maintenance Instructions.

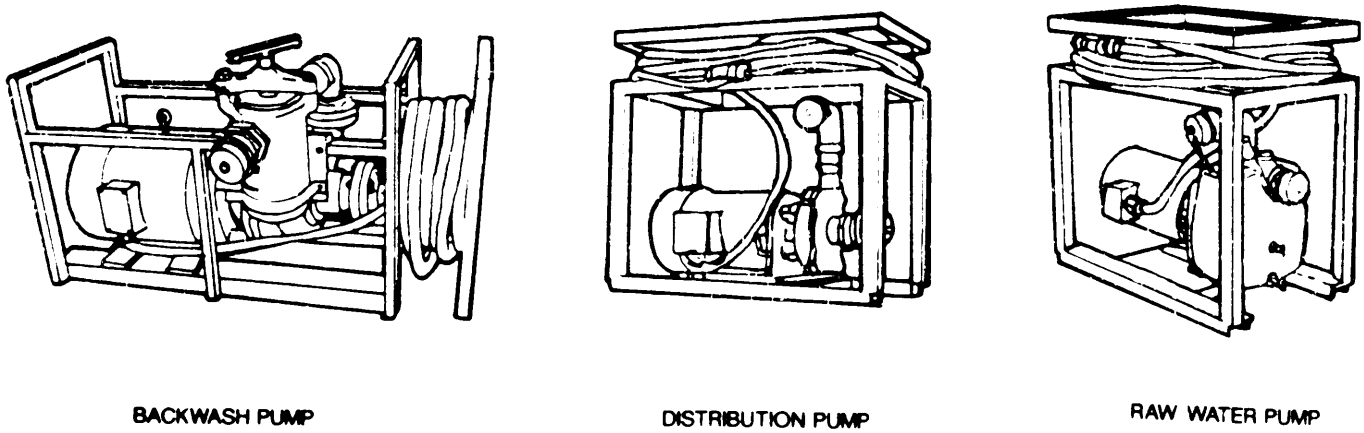
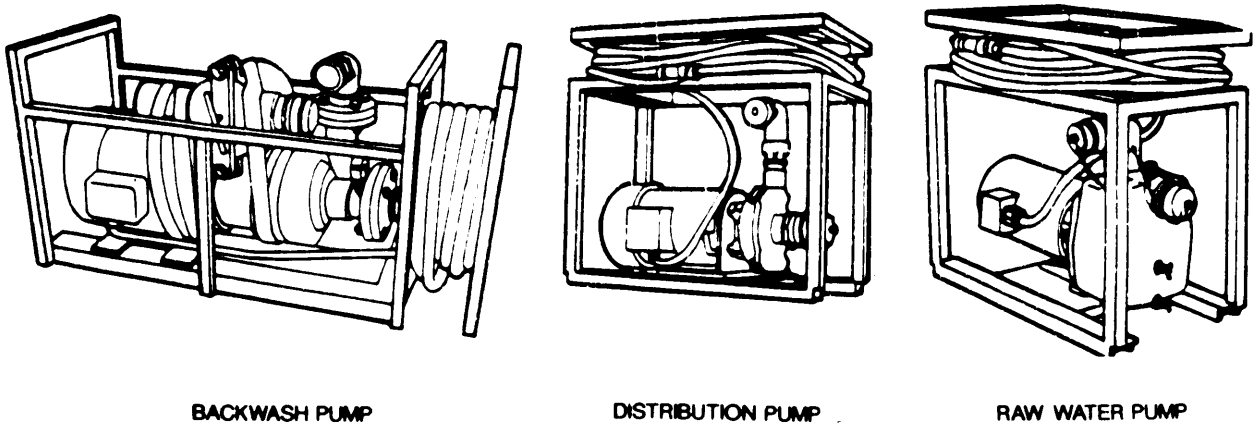
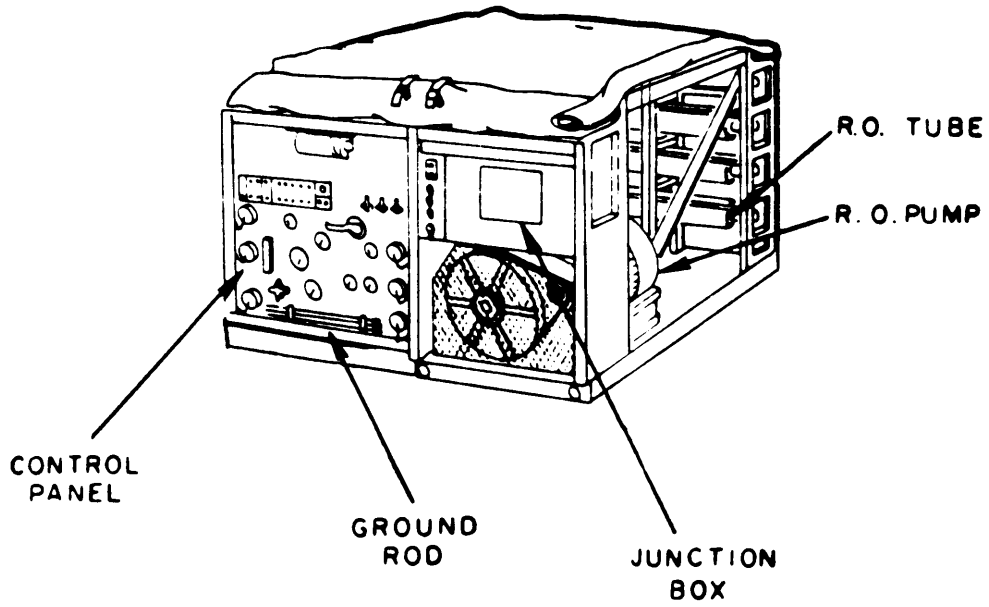
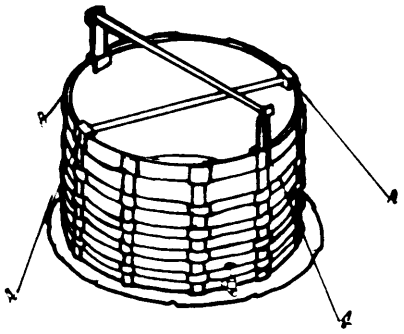


Figure 1-1. Reverse Osmosis Water Purification Unit (ROWPU) (ARMY)







Water Tank (Typical)

Figure 1-2. Reverse Osmosis Water Purification Unit (ROWPU) (USMC)