US ARMY
US MARINE CORPS

*TM 10-4610–215–10
TM 08580A–10/1

TECHNICAL MANUAL

OPERATOR'S MANUAL

WATER PURIFICATION UNIT, REVERSE OSMOSIS, 600 GPH TRAILER MOUNTED FLATBED CARGO, 5 TON 4 WHEEL TANDEM ROWPU MODEL 600-1 (4610-01-093-2380)

AND

600 GPH SKID MOUNTED ROWPU MODEL 600–3 (4610-01-113-8651)

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*** This manual, together with TM 1-4610-23-10/TM 08580B–10/1 and TM 104610-240-10/TM 08580 C-10/1/ TO 40W4-13-21, supersedes TM 5-4610-215-10/TM08580A10/1, 15 May 1987, including all changes.**

HEADQUARTERS, DEPARTMENT OF THE ARMY
AND HEADQUARTERS, U.S. MARINE CORPS
5 MARCH 1991

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

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 directly to: US Army Aviation and Troop Command, ATTN: AMSAT-I-MP, 4300 Goodfellow Blvd., St. Louis, MO 63120-1798. A reply will be furnished directly to you.

Marine Corps users submit NAVMC 10772 Form to Commander, Marine Corps Logistics Bases (Code 850) Albany, Georgia 31704-5000.

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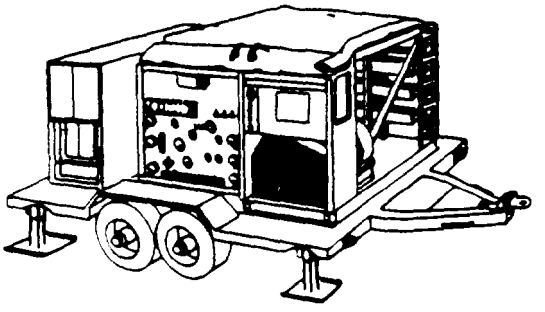

Figure 1-1. Reverse Osmosis Water Purification Unit (ROWPU) (Army)

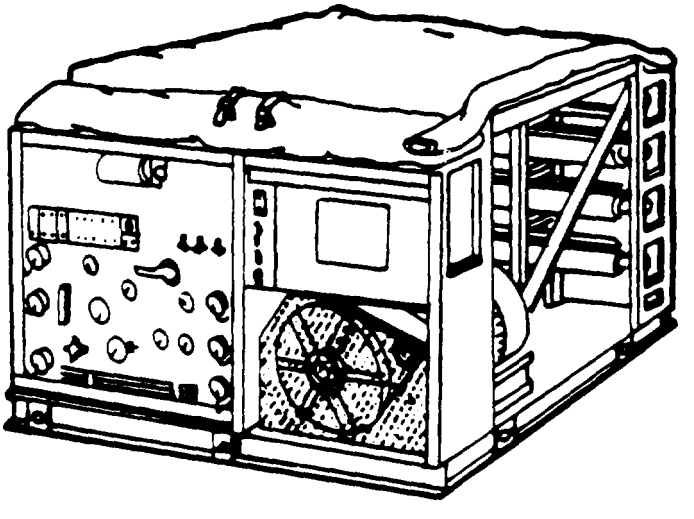

Figure 1-2. Reverse Osmosis Water Purification Unit (ROWPU] (MC)

CHAPTER 1

INTRODUCTION

Section I. GENERAL INFORMATION

1-1. **SCOPE. This operator's manual describes the Operating and Operator's Maintenance Procedures for the 600 Gallon Per Hour (GPH) Reverse Osmosis Water Purification Unit (ROWPU). It should be noted that although a complete 600 GPH Reverse Osmosis Water Purification Equipment Set is described herein, certain components are not issued under the National Stock Number NSN 4610-01-093-2380, but are authorized (Army) under their own TOE Line Item Numbers and are listed in the Department of the Army Supply Catalog SC 4610-97-CL-E16 which describes the entire 600 GPH ROWPU Set. NSN 4610-01-113-8651 is the Marine Corps ROWPU designation. For component list, Marine Corps personnel see SL-3-08580A. This SL-3 covers ROWPU model 600-1, serial number 1 through 338 inclusive.**

NOTE

Paragraphs not designated Army or MC are applicable to both configurations.

1-2. MAINTENANCE FORMS AND RECORDS. Good maintenance records must be kept. Department of Army forms and procedures used for equipment maintenance will be those prescribed by DA PAM 738-750, The Army Maintenance Management System (TAMMS). Marine Corps personnel refer to TM 4700-15/1 for forms and records procedures.

1-3. HAND RECEIPT. (Army) A companion hand receipt technical manual has been issued with the ROWPU to aid in accounting for all of the end-item related equipment. The hand receipt manual is numbered with TM number of this manual (TM 10-4610-215-10) followed by "-HR". Hand Receipt Manual TM 10-4610-215-10-HR contains pre-printed hand receipts for Components of End Item (COEI), Basic Issue Items (Bll), and Additional Authorization List (AAL) items. Additional -HR manuals maybe obtained from the U.S. Army Adjutant General Publications Center, ATTN: AGDL-OD, 2800 Eastern Blvd., Baltimore, MD 21220, in accordance with the procedures in Chapter 3, AR 310-2.

1-4. REPORTING EQUIPMENT IMPROVEMENT RECOMMENDATIONS (EIR's). If your ROWPU needs improvement, let us know. Send us an EIR. You, the user, are the only one who can tell us what you do not like about your equipment. Let us know why you do not like the design. Tell us why a procedure is hard to perform. Put it on an SF-368 (Quality Deficiency Report). Mail it to us at:

Commander
US Army Aviation and Troop Command
ATTN: AMSAT-I-MDO
4300 Goodfellow Blvd.
St. Louis, MO 63120-1798

Marine Corps personnel submit EIR's in accordance with MCO 1650.17.

Section Il. EQUIPMENT DESCRIPTION

1-5. EQUIPMENT CHARACTERISTICS, CAPABILITIES, AND FEATURES

a. Characteristics. The ROWPU is a mobile water purifying unit needing a 30 kW power source, that supplies drinking water for troops in the field. (See fig. 1-1 (Army) and fig. 1-2 (MC)).