

TECHNICAL MANUAL
OPERATOR'S MANUAL
FOR
WATER PURIFICATION UNIT,
REVERSE OSMOSIS,
600 GPH TRAILER MOUNTED,
FLATBED CARGO,
5 TON 4 WHEEL TANDEM ROWPU,
MODEL WPES-10 (4610-01-341-6289)
MODEL H-9518-1 (4610-01-420-7547)
AND
600 GPH SKID MOUNTED ROWPU,
MODEL WPES-20 (4610-01-341-6288)
MODEL H-9518-2 (4610-01-420-7546)
MODEL WPES-30 (4610-01-341-6287)
MODEL H-9518-3 (4610-01-420-7548)

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HEADQUARTERS, DEPARTMENTS OF THE ARMY
AND AIR FORCE
15 SEPTEMBER 1992

TECHNICAL MANUAL

NO. 10-4610-241-10

HEADQUARTER&DEPARTMENTS OF
THE ARMY AND AIR FORCE
WASHINGTON, D.C., 15 SEPTEMBER 1992

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REPORTING ERRORS AND RECOMMENDING IMPROVEMENTS

You can help improve this bulletin. 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 Commander, U. S. Tank-Automotive and Armaments Command, Attn:AMSTA-AC-NML, Rock Island, IL 61299-7630. You may also submit your recommended changes by E-mail directly to amsta-ac-nml@ria-emh2.army.mil, or fax number 309/782-0726/DSN 793-0726. A reply will be furnished directly to you. Instructions for sending an electronic 2028 may be found at the back of this manual immediately preceding the hard copy 2028.

For Air Force, submit AFTO Form 22 (Technical Order System Publication Improvement Report and Reply) in accordance with paragraph 6-5, Section VI, T.O. 00-5-1. Forward to Commander, WR-ALC/LZD, Robbins AFB, GA 31098-5609.

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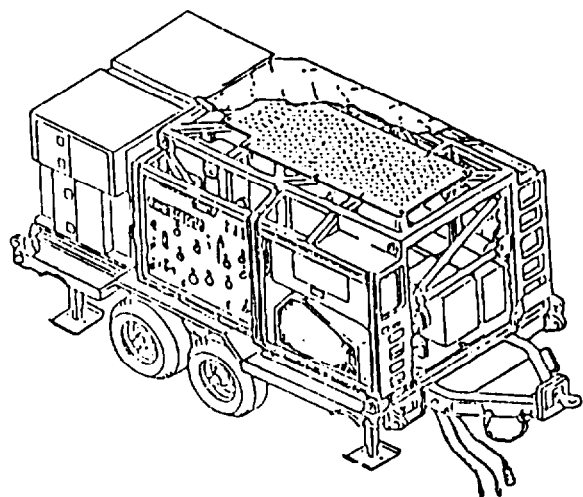
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HOW TO USE THIS MANUAL

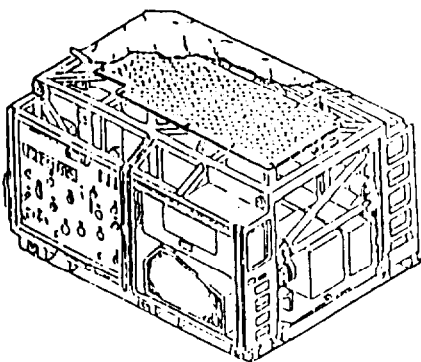
Be sure to read all Warnings before using your equipment.

This manual contains operating and maintenance Instructions for the operator of the 600 GPH ROWPU.

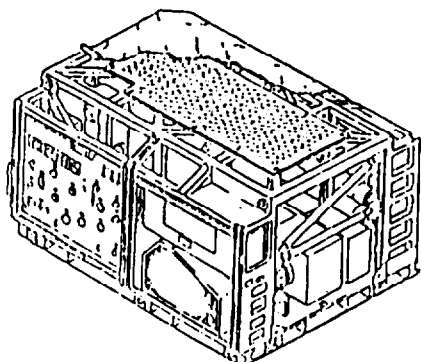
- Chapter 1 - Introduces you to the equipment and gives you information such as weight, height, length, generally used abbreviations and information on how the unit works. The chapter is preceded by a full page illustration of the equipment.
- Chapter 2 - Provides information necessary to identify and use the equipment's operating controls. Operating instructions in this chapter tell you how to use the equipment in both usual and unusual weather conditions. In addition, preventive maintenance instructions provide information needed to inspect and service the ROWPU.
- Chapter 3 - Provides operator troubleshooting procedures for identifying equipment malfunctions and maintenance instructions for performing operator maintenance tasks.
- Chapter 4 - Provides operator maintenance instructions for equipment supplied and used with the ROWPU.
- Appendix A gives you a list of frequently used forms and publications referenced or used in this manual.
- Appendix B lists components that are not mounted on the equipment, but are required to make the unit functional. All components in the Components of End Item and Basic Issue Items Listed are illustrated for easy identification.
- Appendix C lists additional equipment authorized for your unit for use with the ROWPU, but are not supplied as part of system. This equipment list may include fire extinguishers, buckets, protective clothing etc.
- Appendix D provides you with information about expendable supplies such as sealants, lubricants, chemicals etc. that are used when operating or maintaining the equipment.



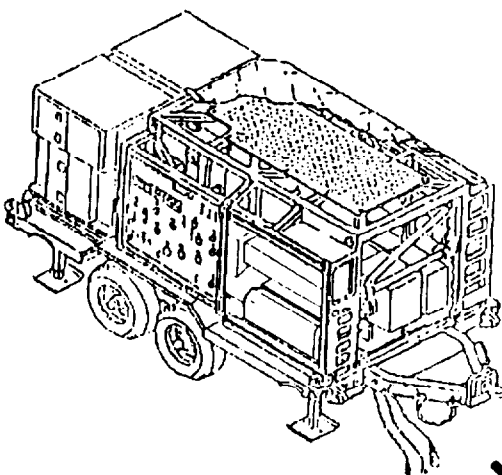
MODEL WPES-10



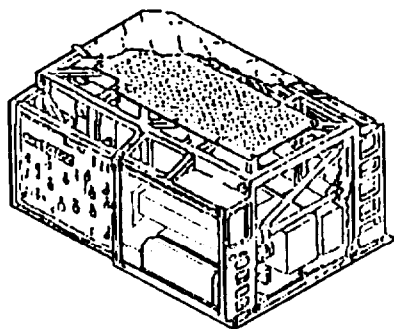
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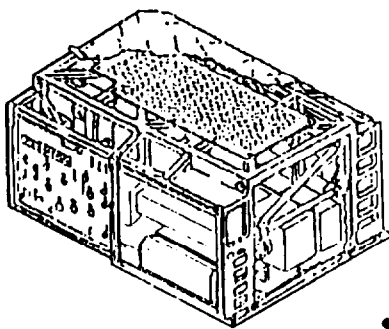
MODEL WPES-30



MODEL H-9518-1



MODEL H-9518-2



MODEL H-9518-3

CHAPTER 1

INTRODUCTION

Section I.	General Information
section II.	Equipment Description
Section III.	Technical Principles of Operation

Section I. GENERAL INFORMATION

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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), Models WPES-10, H-9518-1, WPES-20, H-9518-2, WPES-30 and H-9518-3. Model WPES-10, NSN 4610-01-341-6289 and Model H-9518-1, NSN 4610-01-420-7547 are the Army ROWPU designations. Model WPES-30, NSN 4610-01-341-6287 and Model H-9518-3, NSN 4610-01-420-7548 are the Navy ROWPU designations. Air Force units are designated by Model WPES-20, NSN 4610-01-341-6288 and Model H-9518-2, 4610-01-420-7546.

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). Air Force personnel refer to MAJCOM and local directives.

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 10-4610-241- 10) followed by “-HR”. Hand Receipt Manual TM 10-4610-241-10-HR contains reprinted hand receipts for Components of End Item (COEI), Basic Issue Items (BII), and Additional Authorization List (AAL) items. Additional HR manuals may be 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.