

DEPARTMENT OF THE ARMY TECHNICAL MANUAL

OPERATOR AND ORGANIZATIONAL MAINTENANCE MANUAL

WATER PURIFICATION UNIT: VAN-TYPE BODY MOUNTED;

**ELECTRIC DRIVEN, AC, 115, 208V
SINGLE - AND 3 - PHASE, 60 HERTZ**

1/2 to 2HP,1500 GPH

(MET-PRO MODEL 1500-2600A)

NSN 4610-00-879-4612

(ETC MODEL S1500)

NSN 4610-01-016-9964

HEADQUARTERS, DEPARTMENT OF THE ARMY

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WASHINGTON, D.C., 5 March 1979

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REPORTING ERRORS AND RECOMMENDING IMPROVEMENTS

You can help improve this manual. If you find any mistake 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-MCTS, 4300 Goodfellow Boulevard, St. Louis, MO 63120-1798. A reply will be furnished directly to you.

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CHAPTER 1

INTRODUCTION

Section I. GENERAL

1-1. Scope.

a. These instructions are published for use by personnel to whom the Van-Type Body Mounted Water Purification Unit, Met-Pro Model 1500-2600A or ETC Model S1500 is issued. Chapters 1 through 3 provide information on operation and operator/crew maintenance service of equipment, accessories, components, and attachments. Also included are descriptions of main units and their functions in relationship to other components. Chapter 4 provides information for organizational maintenance services.

1-2. Maintenance Forms and Records.

Equipment Maintenance and procedures for their use are contained in TM 38-750, The Army Maintenance Management System (TAMMS).

NOTE

Applicable forms, excluding Standard Form 46 (United States Government Motor Vehicles Operator's Identification Card) which is carried by the operator, shall be kept in a canvas bag mounted on the equipment.

1-3. Administrative Storage.

a. Storage Site.

(1) Placement of equipment in administrative storage should be for short periods of time when a shortage of maintenance effort exists. Items should be in mission readiness within 24 hours or within the time factors as determined by the directing authority. During the storage period appropriate maintenance records will be kept.

(2) Before placing equipment in administrative storage, current maintenance services and Preventive Maintenance Checks and Services (PMCS) evaluations should be completed, shortcomings and deficiencies should be corrected, and all modification work orders (MWO'S) should be applied.

(3) Storage site selection. Inside storage is preferred for items selected for administrative storage. If inside storage is not available, trucks, vans, conex containers and other containers maybe used.

b. Storage Plan.

(1) Store equipment so as to provide maximum protection from the elements and to provide access for inspection, maintenance, and exercising. Anticipate removal or deployment problems and take suitable precautions.

(2) Take into account environmental conditions, such as extreme heat or cold; high humidity; blowing sand, dust, or loose debris; soft ground; mud, heavy snows; earthquakes; or combinations thereof and take adequate precautions.

(3) Establish a fire plan and provide for adequate firefighting equipment and personnel.

(4) For further information, refer to TM 749-90-1 (Administrative Storage).

1-4. Destruction of Material to Prevent Enemy Use.

a. *General.* When capture of the water purification unit by an enemy or abandonment of it to the enemy is imminent, the responsible unit commander must make the decision either to destroy the equipment or render it inoperative. Based on this decision, orders are issued which cover the desired extent of destruction. Whatever method of demolition is employed, it is essential to destroy vital parts of water purification units and all corresponding repair parts.

b. *Mechanical Means.* Use sledge hammers, crowbars, picks, axes, or other heavy tools which may be available, together with tools normally included with water purification unit to demolish the following vital parts in order of priority listed. Completion of the first five steps will render the unit inoperative. Completion of the additional steps listed will completely destroy equipment.

(1) Erdlator tank and filters.

(2) Instruments, controls, and valves.

(3) Truck, generator engine and accessories.

(4) Puncture the fuel tank.

(5) Slash tires, hoses, and fabric tanks.