TECHNICAL MANUAL

DIRECT SUPPORT AND GENERAL SUPPORT MAINTENANCE MANUAL

WATER PURIFICATION UNIT, VAN TYPE BODY MOUNTED ELECTRIC MOTOR DRIVEN, AC, DC, 115,208 V, SINGLE AND 3 PHASE, 60 HERTZ, 1/20 TO 2 HP; 1500 GPH MODEL EMC-1500S NSN 4610-01-037-8746 EMC INDUSTRIES INC. DAAKO1-76-C-5661

HEADQUARTERS, DEPARTMENT OF THE ARMY

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Water Purification Unit, Van Type Body Mounted
Electric Motor Driven, AC, DC, 115,208 V, Single and
3 Phase, 60 Hertz, 1/20 to 2 HP 1500 GPH
(EMC Industries Model 1500S)
NSN 4610-01-037-8746

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. The following instructions are for the use of direct and general support maintenance personnel. They contain information that is beyond the scope of operator and organizational maintenance personnel.

b. Appendix A contains References and Appendix B contains an Expendable Supplies and Materials List.

1-2. Maintenance Forms and Records. Equipment maintenance forms and procedures for their use are contained in DA PAM 738-750, The Army Maintenance Management System (TAMMS).

1-3. Quality Assurance/Quality Control (QA/QC). Information pertaining to this requirement is contained in MIL-W-52482C, Water Purification Unit, Electric-Motor-Driven, Erdlator-Type Clarifier, Diatomite-Type Filter, Van-Body Mounted, 1,500 GPH.

1-4. Calibration Procedures. Calibration procedures for the Chemical Solution Feeder and the Flow Controller are described in paragraph 5-4 and 6-2 of this publication.

1-5. Reporting of Equipment Improvement Recommendations (EIR). EIR's will be prepared on SF 368, Quality Deficiency Report. Instructions for preparing EIR's are provided in DA PAM 738-750. EIRs should be mailed directly to: Commander, U.S. Army Troop Support Command, ATTN: AMSTR-QX, 4300 Goodfellow Blvd., St. Louis, MO 63120-1798. A reply will be furnished directly to you.

1-5.1. Administrative Storage.

a. 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.

b. Before placing equipment in administrative storage, current maintenance services and equipment serviceable criteria (ESC) evaluations should be completed, shortcomings and deficiencies should be corrected, and all modification work orders (MWO's) should be applied.

c. 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 may be used.

1-6. Destruction of Army 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 the vital parts of the water purification unit and all corresponding repair parts.

b. Demolition to Render Equipment Inoperative.

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

(a) Erdlator tank and filters.
(b) Instruments, controls, and valves.
(c) Truck and generator engine and accessories.
(d) Puncture the fuel tanks.
(e) Slash the tires, hoses, and fabric tanks.

NOTE

The above steps are the minimum requirement for this method.

(f) Pumps and electrical motors.
(g) Wiring and piping.
(h) Filter heads and filter elements.
(i) Chemical feed equipment.
(j) Cut all accessible cables, fuel, hydraulic, and coolant lines.
(k) Chemical containers.
(l) Van body.

(2) Misuse. Perform the steps listed below to make the unit inoperative.

(a) Drain the lubricant and coolant from the engine.