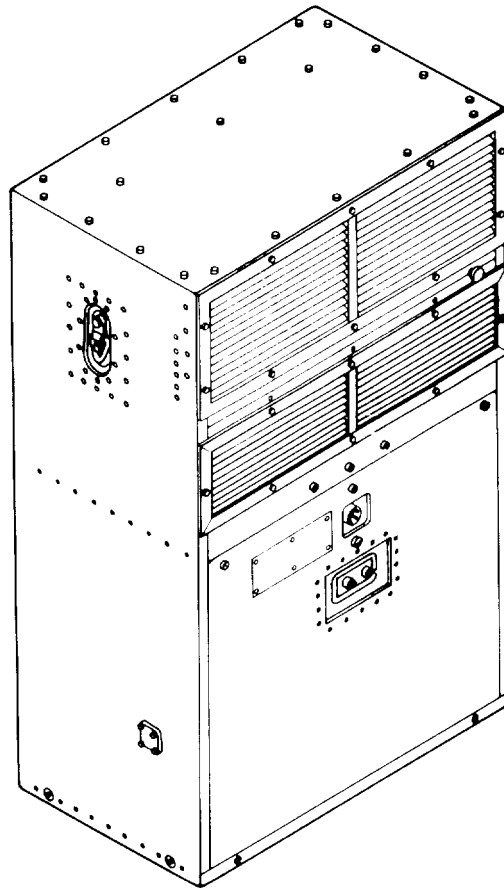


TECHNICAL MANUAL

OPERATOR'S, UNIT, DIRECT SUPPORT, AND GENERAL SUPPORT MAINTENANCE MANUAL

AIR CONDITIONER, VERTICAL, COMPACT
36,000 Btu/hr COOLING
28,600 Btu/hr HEATING
208 VOLT, 3 PHASE, 400 HERTZ
MODEL 3863
NSN 4120-01-244-6385



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HEADQUARTERS, DEPARTMENT OF THE ARMY

18 JANUARY 1991

TECHNICAL MANUAL
TM 9-4120-399-14

HEADQUARTERS
DEPARTMENT OF THE ARMY
Washington, D.C. 18 January 1991

**Operator's, Unit, Direct Support, and
 General Support Maintenance Manual**

For

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36,000 Btu/hr COOLING
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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 or 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, 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.

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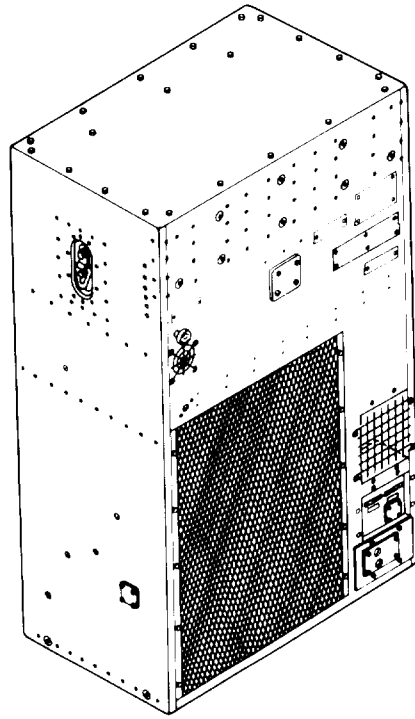
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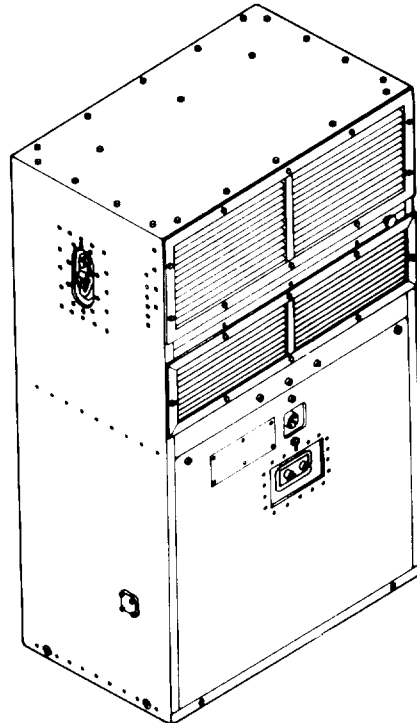
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REAR THREE QUARTER VIEW
(With Fabric Cover Removed)



FRONT THREE QUARTER VIEW

Figure 1-1. Air Conditioner.

CHAPTER 1

INTRODUCTION

Section I. GENERAL INFORMATION

1-1. SCOPE.

- a. Type of Manual.** Operator's, Unit, Direct Support, and General Support Maintenance Manual.
- b. Model Number and Equipment Name.** Applied Model 3863, Vertical, Compact, 36,000 BTU/HR Cooling, 28,600 BTU/HR Heating, 208 VAC, 3 Phase, 400 Hertz, Air Conditioner.
- c. Purpose of Equipment.** Cools, heats, and ventilates enclosed spaces. The unit covered by this manual is designed for cooling of equipment or personnel within the conditioned area.

1-2. MAINTENANCE FORMS AND RECORDS. Department of the Army forms and procedures used for equipment maintenance will be those prescribed by DA PAM 738-750. The Army Maintenance Management System (TAMMS).

1-3. WARRANTY INFORMATION. Refer to TB 9-4120-399-24.

1-4. REPORTING EQUIPMENT IMPROVEMENT RECOMMENDATIONS (EIR'S). If your Air Conditioner needs improvement, let us know. Send us an EIR. You, the user, are the only one who can tell us what you don't like about your equipment. Let us know why you don't like the design or performance. Put it on a SF 368 (Quality Deficiency Report). Mail it to us at Commander, Headquarters, U.S. Army Troop Support Command, Attention: AMSTR-MOF, 4300 Goodfellow Blvd., St. Louis, Missouri 63120-1738. We will send you a reply.

1-5. DESTRUCTION OF ARMY MATERIEL TO PREVENT ENEMY USE. Refer to TM 750-244-3, Procedures for Destruction of Equipment to Prevent Enemy Use.

1-6. PREPARATION FOR STORAGE OR SHIPMENT. Contact unit maintenance for air conditioning unit preparation for storage or shipment. Refer to para. 4-48.

Section II. EQUIPMENT DESCRIPTION AND DATA

1-7. PURPOSE, CAPABILITIES, AND FEATURES.

a. Purpose. The Air Conditioner is designed to ventilate, cool or heat, and to filter air in rooms or enclosures.

b. Capabilities and features.

- (1) Provides a maximum of 36,000 BTU/HR of cooling or 28,600 BTU/HR of heating.
- (2) Has two stages of heat.