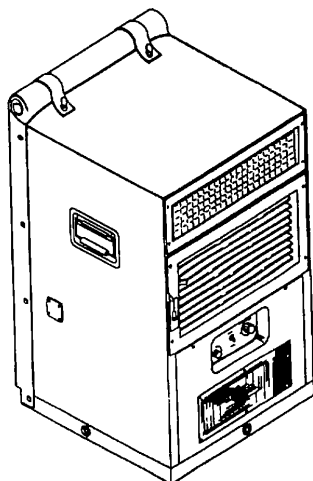


TECHNICAL MANUAL

**OPERATOR'S, UNIT,
DIRECT SUPPORT, AND GENERAL SUPPORT
MAINTENANCE MANUAL
OPERATOR'S
FOR
MAINTENANCE INSTRUCTIONS**

**AIR CONDITIONER, VERTICAL, COMPACT
6,000 BTU/HR
115 VOLT. SINGLE PHASE, 50/60 HERTZ
MODEL JHAA/C6V1
NSN 4120-01-327-5447**



OPERATING INSTRUCTIONS

**OPERATOR'S
PMCS**

**OPERATOR'S
MAINTENANCE INSTRUCTIONS**

**UNIT
PMCS**

**UNIT
TROUBLESHOOTING**

**UNIT
MAINTENANCE INSTRUCTIONS**

**DIRECT SUPPORT
MAINTENANCE INSTRUCTIONS**

**GENERAL SUPPORT
MAINTENANCE INSTRUCTIONS**

Approved for public release; Distribution is unlimited.

**HEADQUARTERS, DEPARTMENT OF THE ARMY
20 APRIL 1992**

TECHNICAL MANUAL

HEADQUARTERS
DEPARTMENT OF THE ARMY
WASHINGTON, D.C., 20 APRIL 1992

No. 9-4120-403-14

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NSN 4120-01-327-5447

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 back of this manual direct to: Commander, US Army Aviation and Troop Command, ATTN: AMSAT-I-M P, 4300 Goodfellow Blvd., St. Louis, MO 63120-1798. A reply will be furnished to you.

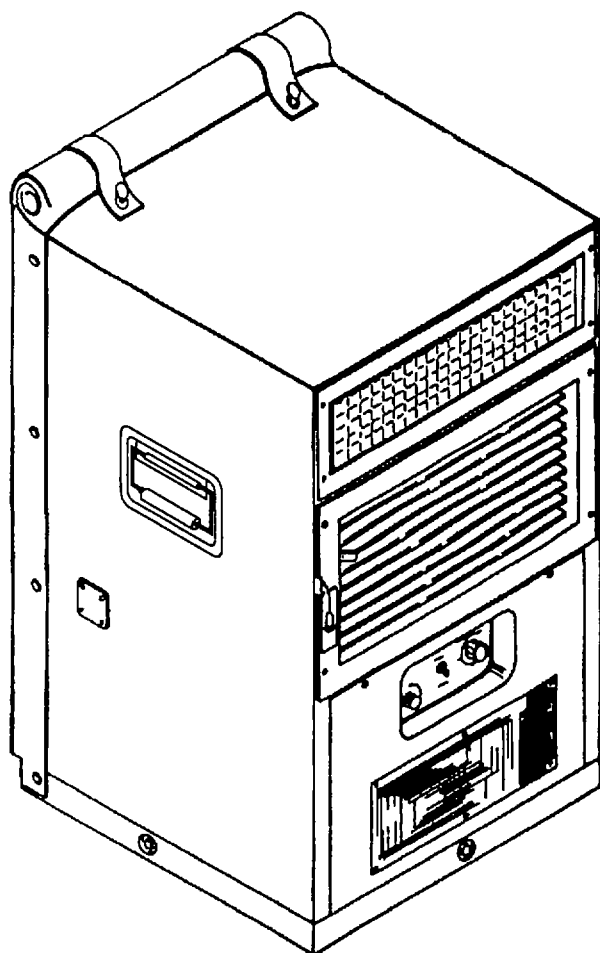
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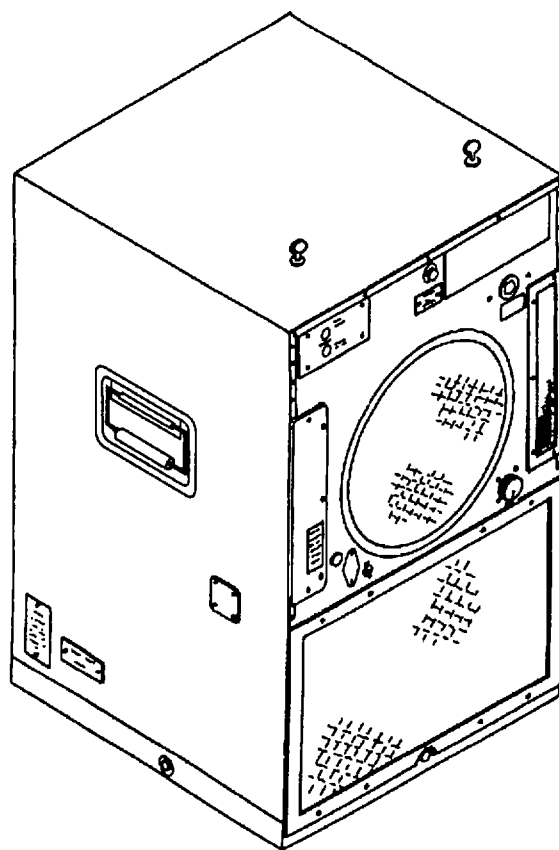
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FRONT VIEW



REAR 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. Model JHAA/C6V 1, Vertical Compact, 6,000 BTU/HR, 115 Volt, Single-Phase, 50/60 Hertz Air Conditioner.
- c. Purpose of Equipment. Cools, heats, and ventilates enclosed spaces. The unit covered by this manual is designed for cooling and heating air to a desired predetermined range and circulating the conditioned air to provide heating and 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

Warranty information is fully explained in warranty Technical Bulletin (TB) TB 9-4120-403-24.

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 Boulevard, St. Louis, Missouri 63120-1798. We will send you a reply.

1-5. DESTRUCTION OF ARMY MATERIEL TO PREVENT ENEMY USE

Command decisions, according to tactical situation, will determine when destruction of the air conditioning unit will be accomplished. A destruction plan will be prepared by the using organization, unless one has been prepared by higher authority. For general destruction procedures for this equipment, refer to TM 750-2443, 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. (See para 4-61.)

Section II EQUIPMENT DESCRIPTION

1-7. PURPOSE, CAPABILITIES, AND FEATURES

a. Purpose of Air Conditioner. 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 6,000 BTU/HR of cooling or 4,500 BTU/HR of heating.
- (2) Provides two stages of heat.
- (3) Provides source of outside (fresh) ventilation air.
- (4) Self contained in a single cabinet that is suited for van, shelter or room installations.
- (5) Operates in environmental conditions from tropic to arctic.
- (6) Fully portable.
- (7) Connection point for NBC (nuclear, biological, chemical) filter.
- (8) Alternate power input connection locations to provide for a variety of installations.
- (9) Designed for low-noise level operation.

1-8. LOCATION AND DESCRIPTION OF MAJOR COMPONENTS

1 FABRIC COVER Shown on rear view in stowed (operational) position. When rolled down and snapped it protects the rear (exposed) surface of the unit.

2 HEATER ELEMENTS (HR 1 thru HR 6) Consists of two banks of three elements each. Only one bank operates in the LO HEAT mode. Both banks operate in the HI HEAT mode, however, the temperature control thermostat controls only one bank.

3 EVAPORATOR COIL Serves as a heat exchanger by transferring heat from the air passing over the tubing and fins to the refrigerant passing through the tubing.

4 MIST ELIMINATOR Minimizes condensate (water) from being blown from the coil into the room or enclosure.

5 CONDITIONED AIR DISCHARGE GRILLE Adjustable louvers allow directional control of conditioned air.

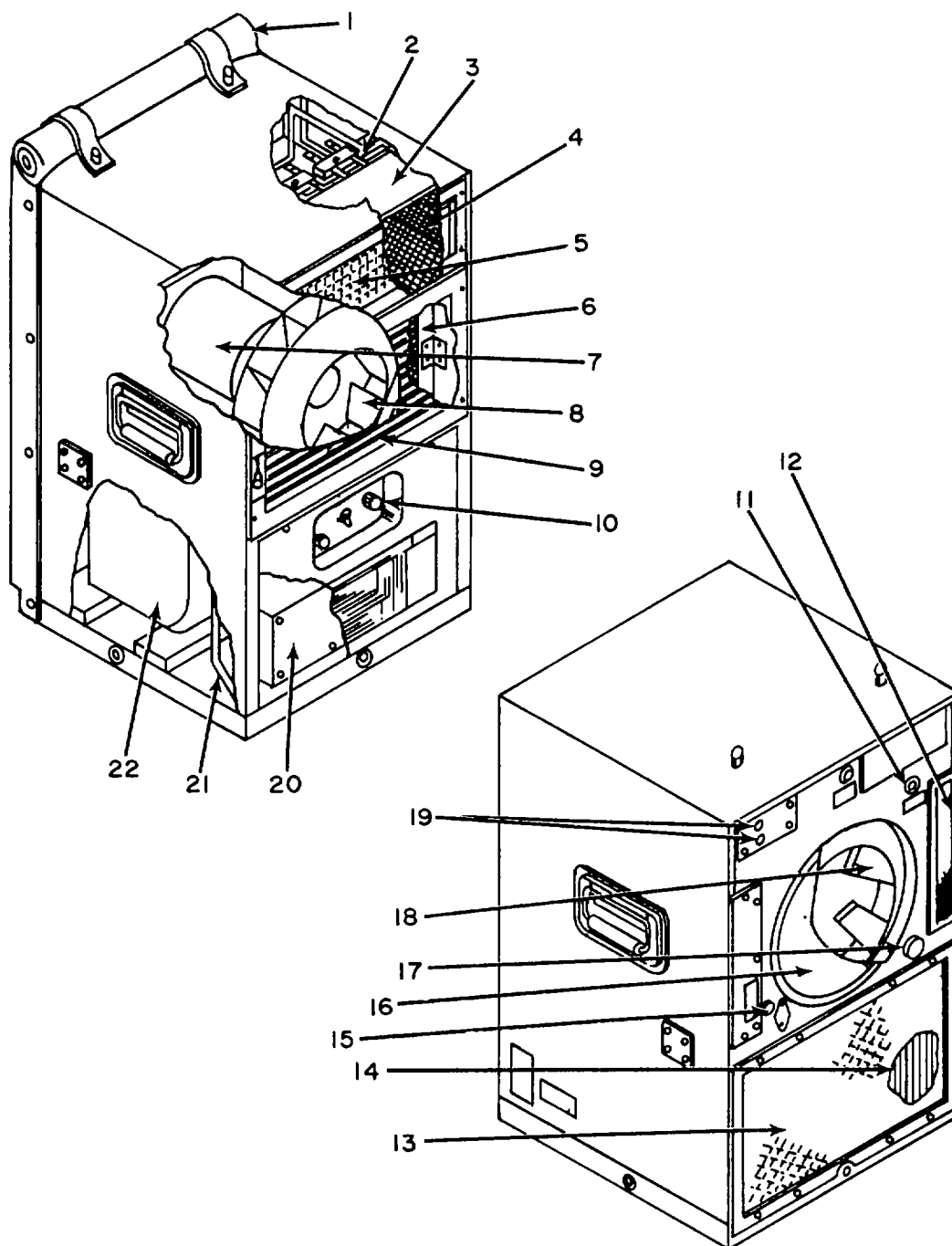


Figure 1-2. Location of Major Components