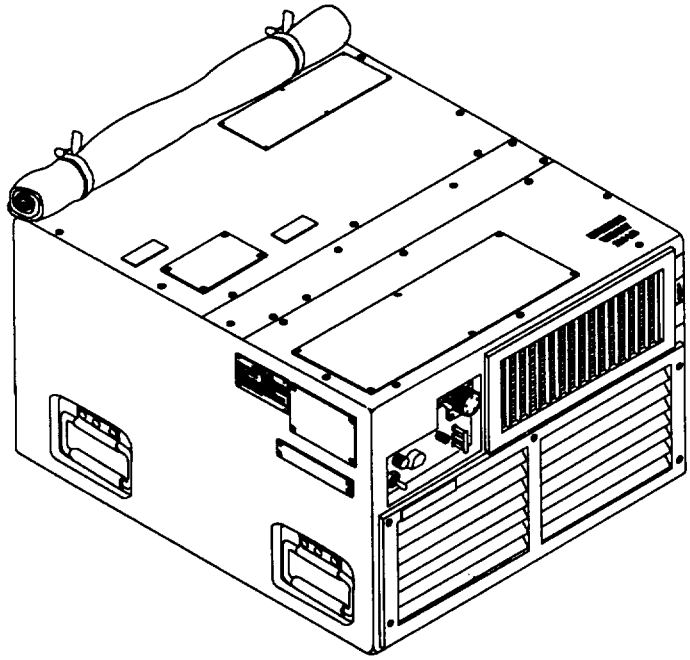
TECHNICAL MANUAL

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



AIR CONDITIONER HORIZONTAL COMPACT
9,000 BTU/HR

MODEL F9000H-1SA
115 VOLT, SINGLE PHASE, 50/60HERTZ
(4120-01-326-4370)
AND
MODEL F9000H-3SA
208 VOLT, 3 PHASE,50/60 HERTZ
(4120-01-330-6542)

HEADQUARTERS, DEPARTMENT OF THE ARMY 1 JULY 1992

TECHNICAL MANUAL

TM9-4120-400-14

HEADQUARTERS
DEPARTMENT OF THE ARMY
WASHINGTON, D. C., 1 JULY 1992

OPERATOR'S, UNIT, DIRECT SUPPORT, AND GENERAL SUPPORT MAINTENANCE MANUAL FOR AIR CONDITIONER, HORIZONTAL, COMPACT, 9,000 BTU/HR, MODEL F9000H-1SA 115 VOLTS, SINGLE PHASE, 50/60 HERTZ (4120-01-326-4370) AND MODEL F9000H-3SA, 208 VOLTS, 3 PHASE, 50/60 HERTZ (4120-01-330-6542)

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 the back of this manual direct to: Commander, U.S. Army Troop Support Command, Attention: AMSTR-MMTS, 4300 Goodfellow Boulevard, St. Louis, Missouri 63120-1798. A reply will be furnished to you.

Approved for public release; distribution is unlimited.

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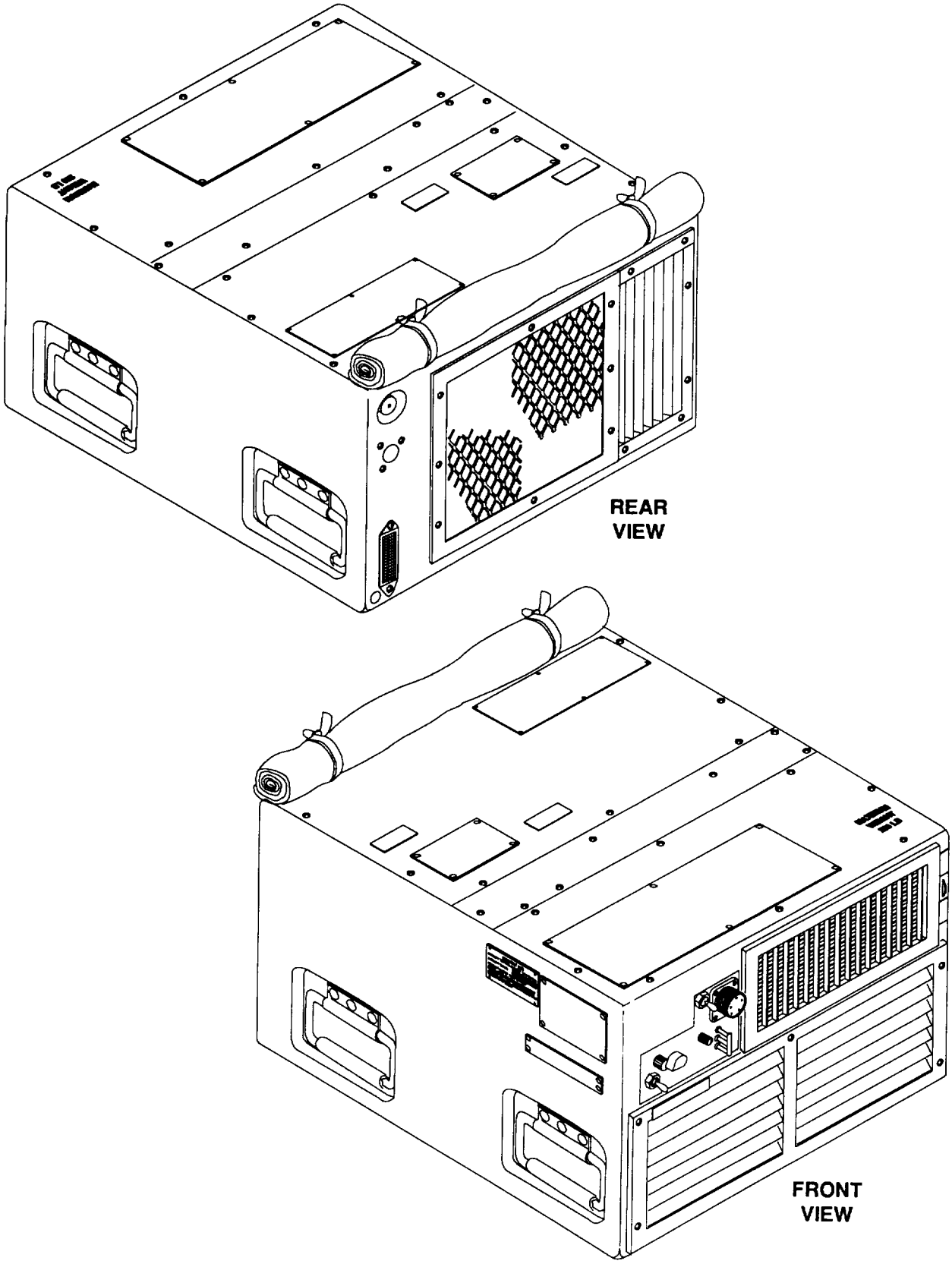

Figure 1-1. Air Conditioner

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 and Equipment Name. Keco Model F9000H-3SA, Horizontal, Compact, 9,000 BTU/HR, 208 Volt, 3 Phase, 50/60 Hertz, Air Conditioner and Keco Model F9000H-1SA, Horizontal Compact 9,000 BTU/HR, 115 Volt, Single Phase, 50/60 Hertz, Air Conditioner.

c. Purpose of Equipment. Cools and heats enclosed space (shelter). The units covered by this manual are 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 Pamphlet 738-750, The Army Maintenance Management System (TAMMS)

1-3. DESTRUCTION OF ARMY MATERIEL TO PREVENT ENEMY USE.

For destruction of Army materiel to prevent enemy use see TM 750-244-3.

1-4. PREPARATION FOR STORAGE OR SHIPMENT.

See Chapter 4, Section VII for administrative storage or shipment information.

1-5. 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. Tell us why a procedure is hard to perform. Put it on a SF 368 (Quality Deficiency Report). Mail it to us at:

Commander, U.S. Army Troop Support Command
Attention: AMSTR-QX
4300 Goodfellow Boulevard
St. Louis, Missouri 63120-1798.

We will send you a reply.

1-6. WARRANTY.

See Warranty Technical Bulletin TB9-4120-400-24 for details and procedures of warranty program for equipment covered by this manual.

Section II EQUIPMENT DESCRIPTION

1-7. EQUIPMENT CHARACTERISTICS, CAPABILITIES, AND FEATURES.

a. The Model F9000H-3SA and Model F9000H-1SA Air Conditioners are designed to circulate, filter, and cool or heat air in the room or enclosure in which they are installed.

b. The Model F9000H-3SA and F9000H-1SA have the capability of providing a maximum of 10,000 BTU/HR of cooling or 7,000 BTU/HR of heating. They are designed to automatically maintain the air in the room or enclosure at the desired temperature selected on the control panel.

c. The unit is self-contained in a single cabinet that is ideally suited for van or shelter type installations. The only external requirements are a source of 208 volt ac, 3 phase, 50/60 hertz input power for the F9000H-3SA, and a source of 115 volt ac, single phase, 50/60 hertz power for the F9000H-1SA, a suitable ground and an entry to a suitable drain. The drain must be lower than the base of the cabinet, in its operating location, for disposal of condensate waste water. It is designed to operate in almost any environmental condition from arctic to tropic and is fully portable for movement from one location to another.

d. The primary installation requirement is that the exhaust air from the compressor/condenser section must be vented to the outside atmosphere. This subject is fully covered in the installation instructions contained in Chapter 4, "Unit Maintenance Instructions."

e. When using this equipment in a secure area, caution must be exercised in meeting the established electromagnetic radiation standards. These standards may limit the use of the equipment's remote capability and require additional shielding for the ducts.

1-8. LOCATION AND DESCRIPTION OF MAJOR COMPONENTS.

See figure 1-2.

1 FABRIC COVER. Protects back or exposed side of the unit during periods of shut down. Must be rolled up when operating in the cool mode or when fresh (outside) air is being used in any mode.

2 CONDITIONED AIR SUPPLY LOUVER. Provides directional control of conditioned air.

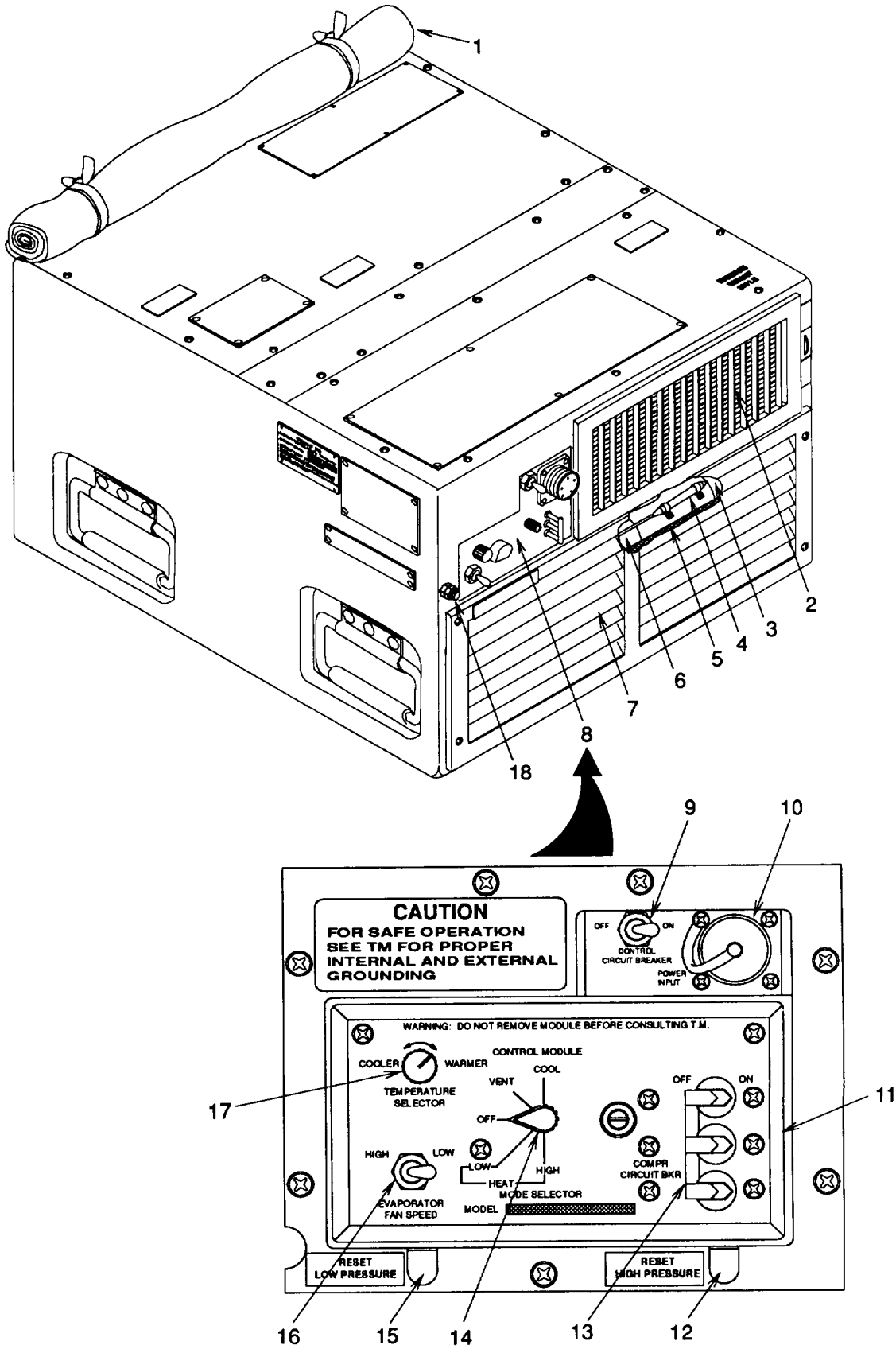

Figure 1-2. Location of Major Components (Sheet 1 of 2)

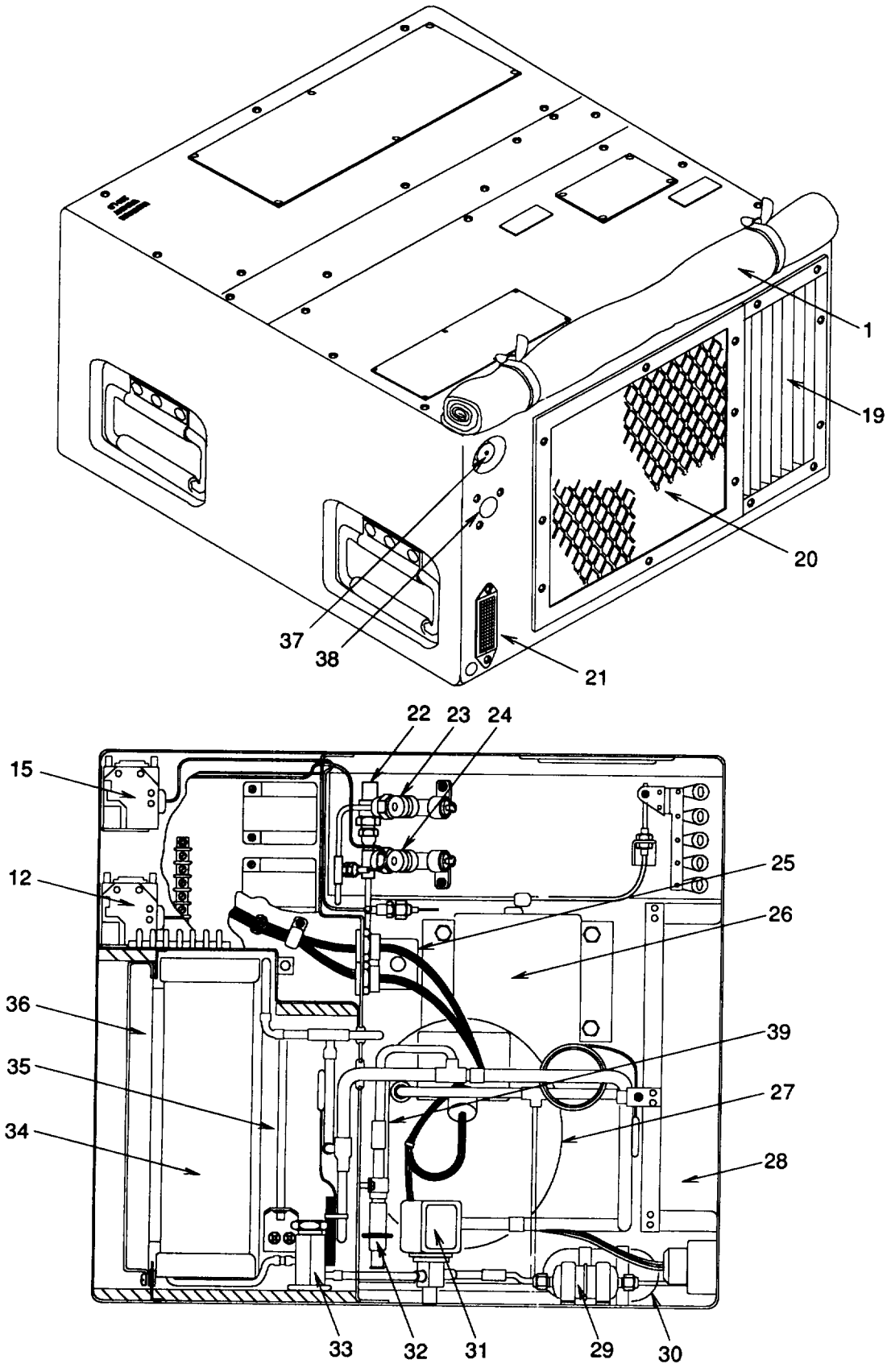

Figure 1-2. Location of Major Components (Sheet 2 of 2)