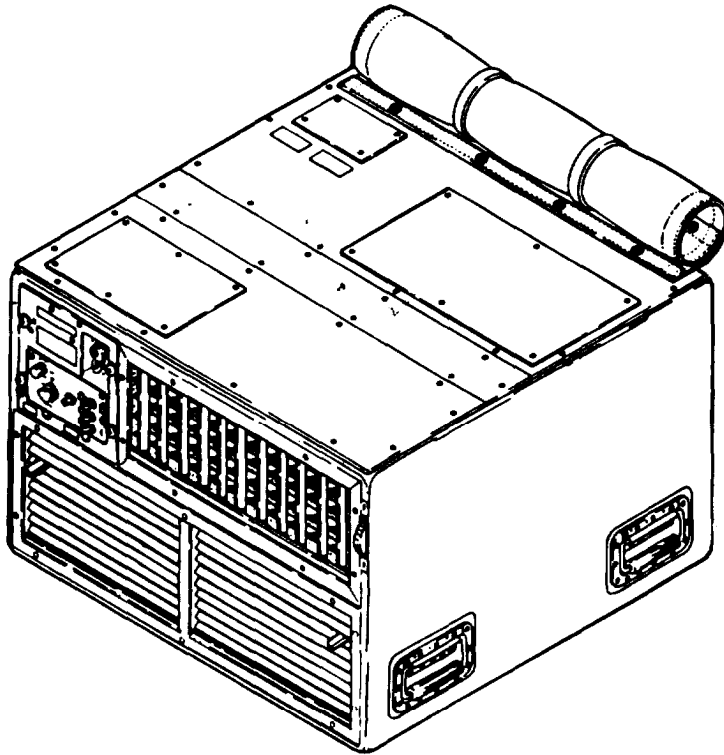


TECHNICAL MANUAL

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

AIR CONDITIONER
HORIZONTAL COMPACT
18,000 BTU/HR
208 VOLT, 3 PHASE,
50/60 HERTZ
MODEL F18H-3S
(4120-01-165-1125)

This copy is a reprint which includes current
pages from Changes 1 through 4.

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OPERATING INSTRUCTIONS 2

OPERATOR'S
MAINTENANCE INSTRUCTIONS 3ORGANIZATIONAL
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HEADQUARTERS, DEPARTMENT OF THE ARMY
27 MAY 1985

TECHNICAL MANUAL

NO. 5-4120-384-14

HEADQUARTERS
DEPARTMENT OF THE ARMY
WASHINGTON, D.C., 27 May 1985

Operator's, Organizational, Direct Support
and General Support Maintenance Manual

AIR CONDITIONER, HORIZONTAL, COMPACT,
18,000 BTU/HR
208 VOLTS, 3 PHASE, 50/60 HERTZ
MODEL F18H-3S (4120-01-165-1125), MODEL F18H-3SA (4120-01-237-4663)
MODEL F18H-3SB (4120-01-268-4451)
AND
230 VOLTS, SINGLE PHASE 60 HERTZ
MODEL F18H-1S (4120-01-268-4450)

REPORTING ERRORS AND RECOMMEND 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-MCTS, 4300 Goodfellow Boulevard, St. Louis, Missouri 63120-1798. A reply will be furnished to you.

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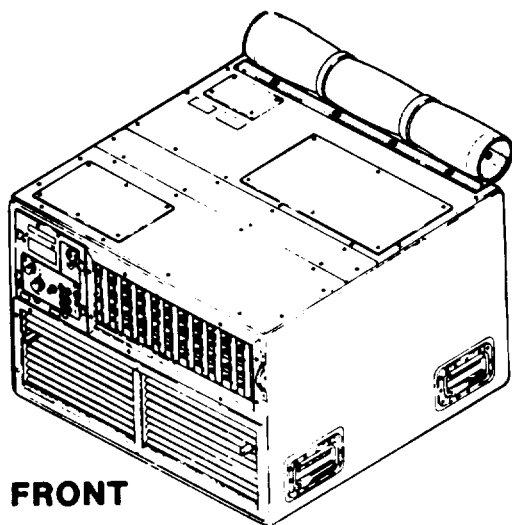
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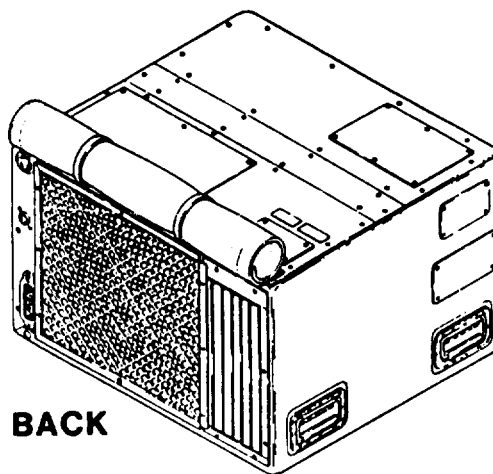
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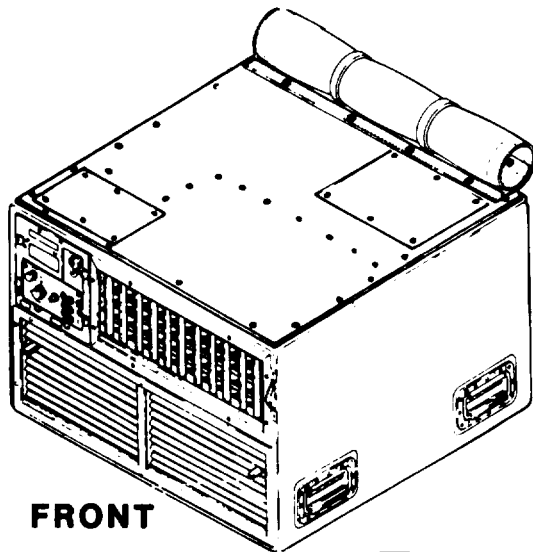


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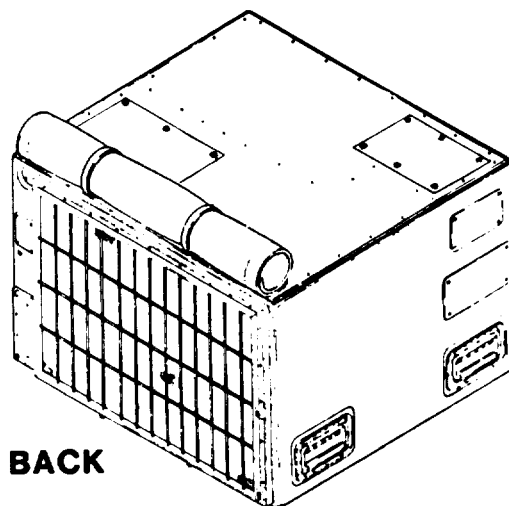


BACK

**F18H-3S
AND
F18H-1S**



FRONT



BACK

**F18H-3SA
AND
F18H-3SB**

Figure 1-1. Air Conditioner

CHAPTER 1

INTRODUCTION

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Section I GENERAL INFORMATION

1-1. SCOPE.

a. Type of Manual. Operator's, Organizational, Direct Support, and General Support Maintenance Manual.

b. Model Number and Equipment Name. Keco Models F18H-3S, F18H-3SA, and F18H-3SB Horizontal, Compact, 18,000 BTU/HR, 208 Volt, 3 Phase, 50/60 Hertz, Air Conditioners and Keco Model F18H-1S Horizontal, Compact, 18,000 BTU/HR, 230 Volt, Single Phase, 60 Hertz, Air Conditioner.

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

1-3. HAND RECEIPT MANUAL.

This manual has a companion document with a TM number followed by "-HR" (which stands for Hand Receipt). The TM5-4120-384-14-HR consists of preprinted hand receipts (DA Form 2062) that list end item related equipment (i.e., COEI, BII, and AAL) you must account for. As an aid to property accountability, additional -HR manuals may be requisitioned from the following source in accordance with procedures in Chapter 3, AR 310-2:

The U.S. Army Adjutant General Publications Center
2800 Eastern Boulevard
Baltimore, MD 21220.

1-4. REPORTING EQUIPMENT IMPROVEMENT RECOMMENDATIONS (EIR8).

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.

Section II EQUIPMENT DESCRIPTION

1-5. EQUIPMENT CHARACTERISTICS, CAPABILITIES, AND FEATURES.

a. The air conditioner is designed to circulate, filter, and cool or heat air in the room or enclosure in which it is installed.

b. This air conditioner has a capability of providing a maximum of 18,000 BTU/HR of cooling or 14,300 BTU/HR of heating. It is 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 an external input power source, a