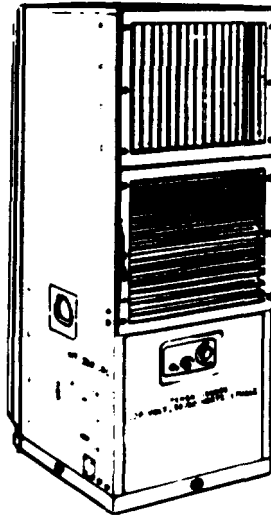


TECHNICAL MANUAL
OPERATOR UNIT, DIRECT SUPPORT AND
GENERAL SUPPORT MAINTENANCE
MANUAL
FOR
AIR CONDITIONER, VERTICAL COMPACT
TYPE I, VERTICAL, SIZE C, 18,000 BTU/HR,
CLASS 1,208 VOLT, 3 PHASE, 50/60 HERTZ
KECO MODEL F18T-2
NSN 4120-00-168-1781



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* This manual supersedes TM 5-4120-360-14, dated 21 December 1979

HEADQUARTERS, DEPARTMENT OF THE ARMY
15 SEPTEMBER 1993

**Operator, Unit, Direct Support
and General Support Maintenance Manual
for
Air Conditioner, Vertical Compact
Type I, Vertical, Size C, 18,000 BTU/HR,
Class 1, 208 Volt, 3 Phase, 50/60 Hertz
KECO Model F18T-2
NSN 4120-00-168-1781**

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 Aviation and Troop Command, ATTN: AMSAT-I-MP, 4300 Goodfellow Boulevard, St. Louis, MO 63120-1798. A reply will be furnished directly to you.

TABLE OF CONTENTS

	Page
CHAPTER 1. INTRODUCTION	
Section I. General Information	1-1
Section II. Equipment Description	1-1
CHAPTER 2. OPERATING INSTRUCTIONS	
Section I. Description and Use of Operator's Controls and Indicators	2-1
Section II. Preventive Maintenance Checks and Services	2-5
Section III. Operation under Usual Conditions.	2-6
Section IV. Operation under Unusual Conditions.	2-10
CHAPTER 3. OPERATOR'S MAINTENANCE INSTRUCTIONS	
Section I. Lubrication Instructions	3-1
Section II. Troubleshooting	3-1
CHAPTER 4. UNIT MAINTENANCE INSTRUCTIONS	
Section I. Repair Parts, Special Tools, TMDE, and Support Equipment	4-1
Section II. Service upon Receipt of Equipment	4-1
Section III. Preventive Maintenance Checks and Services	4-6
Section IV. Troubleshooting	4-8
Section V. Maintenance Procedures	4-14
CHAPTER 5. DIRECT SUPPORT MAINTENANCE	
Section I. Control Panel	5-1
Section II. Junction Box	5-4
Section III. RFI Filter	5-8
Section IV. Compressor	5-9
Section V. Pressure Switch	5-19
Section VI. Pressure Cutout Switches	5-23

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			Page
Section	VII.	Refrigeration Tubing and Fittings	5-28
Section	VIII.	Solenoid Valves	5-29
Section	XI.	Filter-drier (Dehydrator)	5-33
Section	X.	Sight-glass Liquid Indicator	5-35
Section	XI.	Pressure Regulating Valve	5-37
Section	XII.	Pressure Relief Valve	5-38
Section	XIII.	Receiver	5-39
Section	XIV.	System Service Valves	5-40
Section	XV.	Thermal Expansion Valves	5-41
Section	XVI.	Condenser Coil	5-46
Section	XVII.	Evaporator Coil	5-47
Section	XVIII.	Heating Elements	5-49
Section	XIX.	Heater Thermostat	5-50
Section	XX.	Evaporator Fan	5-52
Section	XXI.	Condenser Fan	5-53
Section	XXII.	Fan Motor	5-55
Section	XXIII.	Wire Leads and Wiring Harnesses	5-59
CHAPTER	6.	GENERAL SUPPORT MAINTENANCE	6-1
APPENDIX	A	References	A-1
	B	Maintenance Allocation Chart	B-1
	C	Expendable Supplies and Materials List	C-1
INDEX.			Index-1

LIST OF ILLUSTRATIONS

Figure	Title	Page
1-1	Air Conditioner	1-2
1-2	Location of Major Components	1-5
2-1	Operator's Controls	2-2
2-2	Refrigeration Diagram	2-3
2-3	Stencils and Instruction Plates	2-9
4-1	Mounting Details	4-3
4-2	Remote Control	4-4
4-3	Block-off Panel	4-5
4-4	Screens, Covers and Guards	4-16
4-5	Panels, Louver and Filters	4-19
4-6	Back Panel and Motor Support	4-22
4-7	Motor Mounting Details	4-26
4-8	Fresh Air Damper Details	4-27
4-9	Condensate Drain	4-31
5-1	Control Panel Details	5-3
5-2	Junction Box Details	5-7
5-3	RFI Filter Details	5-10
5-4	Compressor Details	5-14
5-5	Typical Flushing Hook-up	5-20
5-6	Pressure Cutout Switches	5-27
5-7	Typical Solenoid Valve	5-30
5-8	Refrigeration Component Layout	5-34
5-9	Typical Thermal Expansion Valve	5-45
5-10	Heater Assembly	5-51
5-11	Evaporator Fan Details	5-54
5-12	Condenser Fan Details	5-54
5-13	Fan Motor Details	5-56
6-1	Lifting Handles	6-2
FO-1	Wiring Diagram	FO-1

CHAPTER 1

INTRODUCTION

Section I GENERAL INFORMATION

1.1. Scope

a. This manual contains information on the operation, servicing and maintenance of the compact vertical air conditioner, Model F18T-2, manufactured by Keco Industries, Inc., Cincinnati, Ohio.

b. The purpose of the air conditioner is to circulate, cool or heat filtered air in a room or other enclosure in which it is installed (see figure 1-1). The unit provides 18,000 Btu/hr. of cooling or 12,000 Btu/hr. of heating capacity. A two-speed fan can be set for either low-or high-speed operation, using a manually operated switch on the control panel; however, an automatic, pressure-operated switch may override the manual switch when it is set for low speed. This feature provides automatic control of head pressure, and increases cooling efficiency.

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. Reporting Equipment Improvement Recommendation (EIR'S)

EIR's can and must be submitted by anyone who is aware of an unsatisfactory condition with the equipment design or use. It is not necessary to show a new design or list a better way to perform a procedure, just simply tell why the design is unfavorable or why a procedure is difficult. EIR's may be submitted on Standard Form (SF) 368. Mail directly to AMSAT-I-MDO, US Army Aviation and Troop Command, 4300 Good fellow Boulevard, St. Louis, MO 63120-1798. A reply will be furnished to you.

Section II. EQUIPMENT DESCRIPTION

1.4. Capabilities and Features

a. Major Components:

- (1) Compressor
- (2) Evaporator Coil
- (3) Condenser Coil
- (4) Evaporator/Condenser Fans
- (5) Solenoid Valves
- (6) Expansion Valves

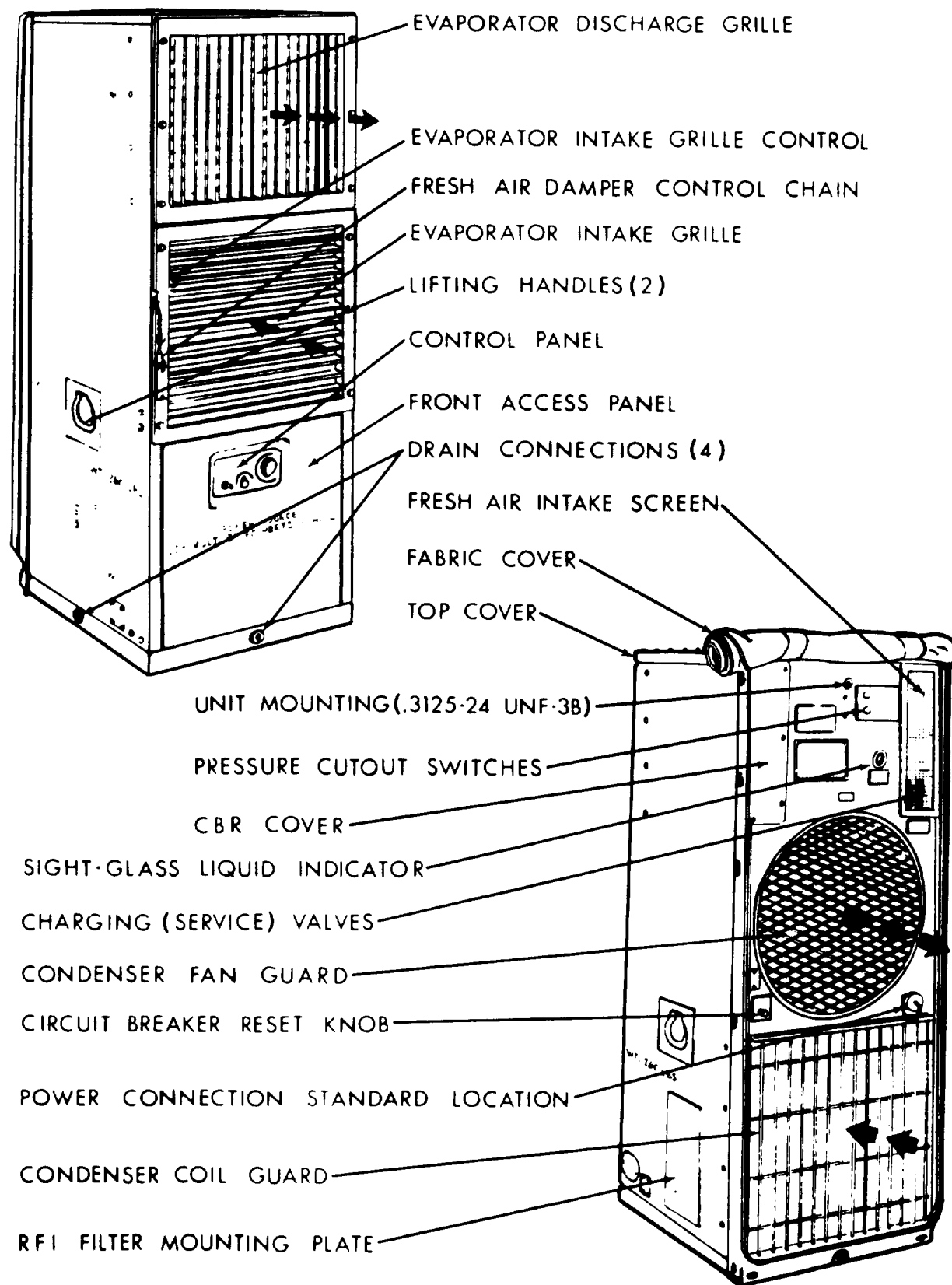


Figure 1-1. Air Conditioner