

TECHNICAL MANUAL

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

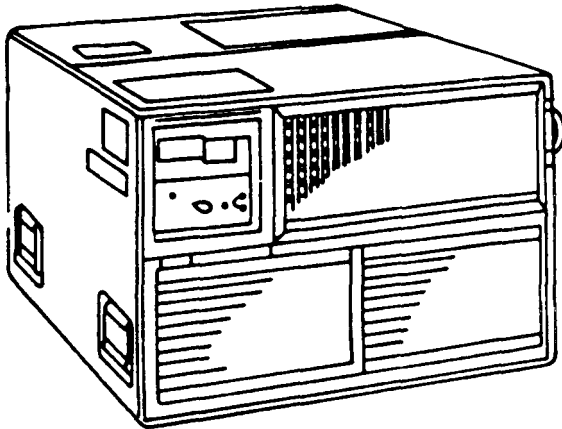
**AIR CONDITIONER,
HORIZONTAL, COMPACT**

9,000 BTU/HR,

115 VOLT,

SINGLE PHASE

50/60 HZ



MODEL A9KH-115P (EIC: VWH

NSN 4120-01-136-2214

MODEL F9000H-1S

NSN 4120-01-250-3719

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* This manual supersedes TM 5-4120-378-14, dated 31 Oct 86.

HEADQUARTERS, DEPARTMENT OF THE ARMY

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DEPARTMENT OF THE ARMY
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Operator's, Unit, Direct Support and
General Support Maintenance Manual

AIR CONDITIONER, HORIZONTAL, COMPACT
9,000 BTU/HR,
115 Volt, SINGLE PHASE, 50/60 HZ
MODEL A9KH-115P (EIC:VWH),
NSN 4120-01-136-2214
MODEL F9000H-1S,
NSN 4120-01-250-3719

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. You may also submit your recommended changes by E-mail directly to ahf2028@st-louis-emh7.army.mil. A reply will be furnished directly to you.

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CHAPTER 1

INTRODUCTION

Section I. GENERAL INFORMATION

1.1 SCOPE.

1.1.1 Type of Manual. Operator's, Unit, Direct and General Support Maintenance.

1.1.2 Model Number and Equipment Name. A9KH-115P Air Conditioner, Compact Horizontal,
9,000 BTU/HR, 115 Volt Single Phase, 50/60 Hertz.

F9000H-1S Air Conditioner, Compact, Horizontal,
9,000 BTU/HR, 115 Volt, Single Phase, 50/60 Hertz.

1.1.3 Purpose of Equipment. Provides filtered, cooled or heated air to a desired range and circulates the air to provide cooling or heating of equipment or personnel within the 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 DESTRUCTION OF ARMY MATERIAL TO PREVENT ENEMY USE. Refer to TM 750-244-3, Procedures for Destruction of Equipment to Prevent Enemy Use, for information about destruction.

1.4 REPORTING EQUIPMENT IMPROVEMENT RECOMMENDATIONS (EIRs). 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 do not like about your equipment. Let us know why you do not like the design. Tell us why a procedure is hard to perform. Put it on an SF 368 (Quality Deficiency Report). Mail it directly to Commander, U.S. Army Aviation and Troop Command ATTN: AMSAT-I-MDO, 4300 Goodfellow Boulevard, St. Louis, MO 63120-1798. A reply will be furnished directly to you.

1.5 LIST OF ABBREVIATIONS.

A	ampere
Btu/hr	British thermal units per hour
C	Celsius
COMPR	compressor
DB	dry bulb
F	Fahrenheit
hp	horsepower
in	inch
kg	kilogram
kg/m ²	kilogram per square meter
kg/cm ²	kilogram per square centimeter
l	liter
lb	pound
OD	outside diameter
psi	pounds force per square inch
psig	pounds force per square gage
pt	pint
rpm	revolutions per minute
SHR	sensible heat ratio
V	volts
Vac	volts alternating current
Vdc	volts direct current

Section II. EQUIPMENT DESCRIPTION

1.6 PURPOSE OF AIRCONDITIONER. The air conditioner is used primarily in van type enclosures to provide filtered, cooled or heated air, as required, to maintain the service conditions necessary for the efficient operation of electronic equipment in the vans. The air conditioner also provides for the comfort of operating personnel housed within the vans.

1.6.1 Capabilities and Features.

- a. Light-weight, compact horizontal.
- b. Floor-mounted and air-cooled.
- c. Electric motor driven and designed for continuous operation under varying loads.
- d. Furnishes 10,000 Btu/hr for cooling; 7,000 Btu/hr for heating.
- e. Handles for lifting.
- f. Auxiliary power input source (J11).
- g. Roll up condenser cover.