

DEPARTMENT OF THE ARMY TECHNICAL MANUAL

TECHNICAL MANUAL

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

AIR CONDITIONER, VERTICAL: COMPACT,

SELF-CONTAINED, AIR COOLED,

ELECTRIC MOTOR DRIVEN

115 VOLTS, A. C. 50/60 HERTZ, SINGLE PHASE

9,000 BTU/HR COOLING, 6,000 BTU/HR HEATING

(HARVEY W. HOTTEL MODEL CV-9-5/6-15)

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HEADQUARTERS, DEPARTMENT OF THE ARMY

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 DEPARTMENT OF THE ARMY
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OPERATOR ORGANIZATIONAL, DIRECT

SUPPORT AND GENERAL SUPPORT

MAINTENANCE MANUAL

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CHAPTER 1

INTRODUCTION

Section I. GENERAL

1-1. Scope

a. This manual is published for use of personnel to whom Harvey W. Hottel Model CV-9-5/6-15 air conditioners are issued. Chapters 2 and 3 provide information on operation and operator services. Chapter 4 provides information on organizational maintenance. Chapter 5 contains direct and general support maintenance. Chapter 5 contains direct and general support maintenance instructions and Chapter 6 presents instructions for repair of the air conditioner,

b. Report all equipment improvement recommendations as prescribed by TM 38-750,

c. Instruction pertaining to storage of the air conditioner can be found in TM 740-90-1.

d. Instructions pertaining to destruction of the

air conditioner to prevent enemy use can be found in TM 750-244-3.

1-2. Forms and Records

a. Maintenance forms, records, and reports which are to be used by maintenance personnel at all maintenance levels are listed in and prescribed by TM 38-750.

b. You can help improve this manual. If you find any mistake or if you know of a way to improve the procedure, please let us know. Mail your letter or DA Form 2028 (Recommended Changes to Publications and blank forms) directly to:
Commander, U.S. Army Troop Support Command, ATTN: AMSTR-MMTS, 4300 Goodfellow Blvd., St. Louis, MO 63120-1798.
A reply will be furnished to you.

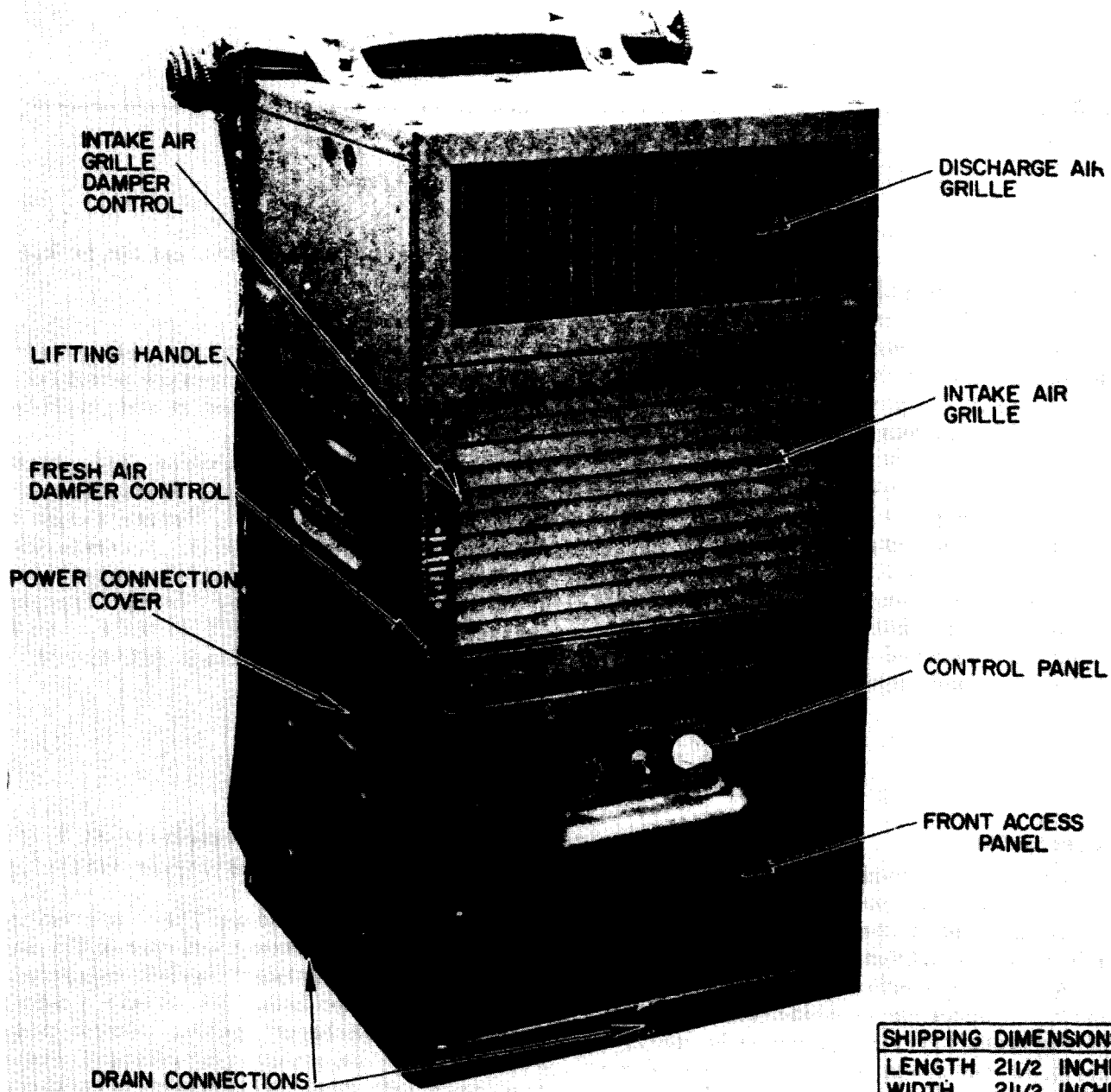
Section II. DESCRIPTION AND DATA

1-3. Description

a. *General.* The air conditioner (fig. 1-1) is used primarily in van type enclosures for providing filtered, conditioned, or heated air as required to maintain service conditions necessary for the efficient operation of electronic equipment and for the comfort of operating personnel housed within the specified vans. It is a completely self-contained, air cooled, electric motor driven unit designed for continuous operation with varying loads. It is equipped with internal ducting to the low side of

the evaporator fan so that ventilation air from a chemical and biological filter may be supplied by the evaporator fan.

b. *Condensing Section.* The condensing section, located at the bottom and rear of the unit, contains the hermetically sealed compressor, condenser coil, condenser air intake opening, condenser air discharge opening, control panel, junction box, capacitors, temperature control thermostat, eight glass, power receptacle connector, condenser fan, fan motor, dehydrator, suction and discharge service valves, and solenoid valves.



SHIPPING DIMENSIONS	
LENGTH	21 1/2 INCHES
WIDTH	21 1/2 INCHES
HEIGHT	34 INCHES
WEIGHT	180 POUNDS

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Figure 1-1. Air conditioner, left front with shipping dimensions.