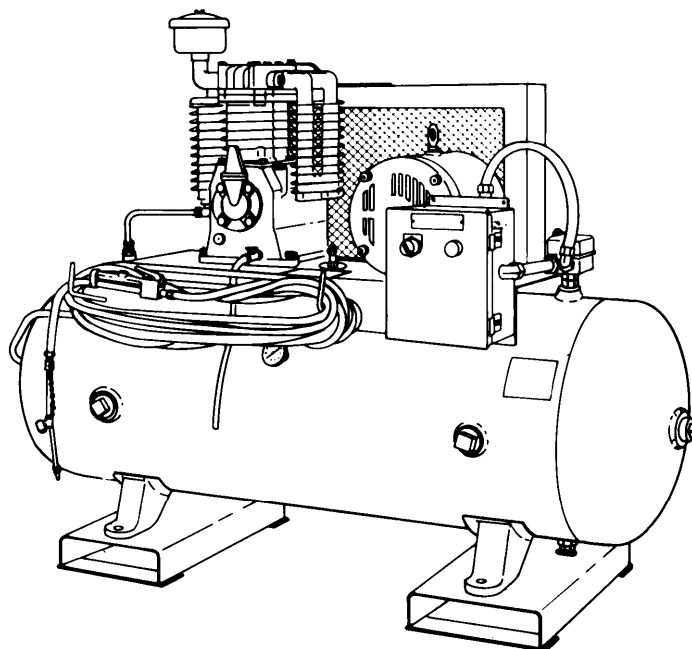


**OPERATOR'S, ORGANIZATIONAL, DIRECT SUPPORT, AND  
GENERAL SUPPORT  
MAINTENANCE MANUAL**

**COMPRESSOR UNIT, RECIPROCATING,  
15 CFM, 175 PSI, ELECTRIC  
MOTOR DRIVEN  
MODEL RI22RAAB, PART NO. 84950  
(NSN 4310-01-139-4815)**



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## TECHNICAL MANUAL

TM 5-4310-375-14

**HEADQUARTERS**  
**DEPARTMENT OF THE ARMY**  
**WASHINGTON, D. C., 9 November 1983**

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**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, US Army Troop Support and Aviation Materiel Readiness Command, ATTN: DRSTS-MPSD, 4300 Goodfellow Blvd., St. Louis, MO 63120. A reply will be furnished directly to you.

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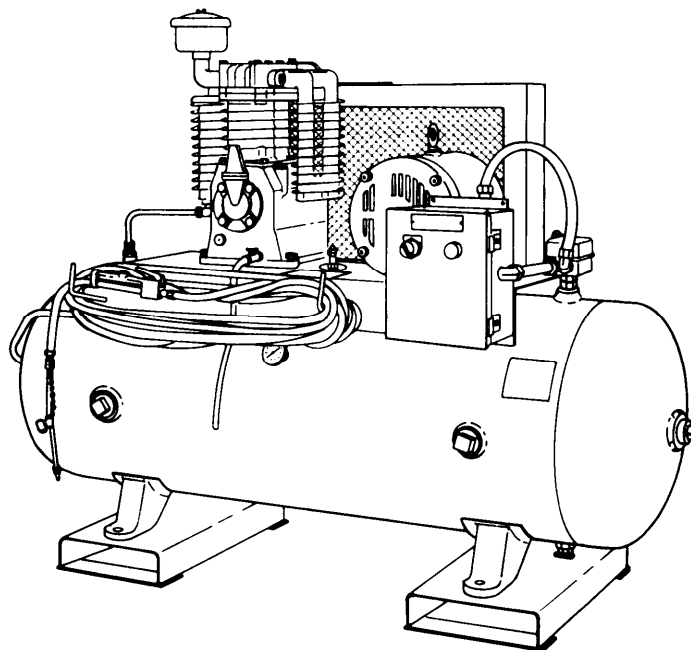
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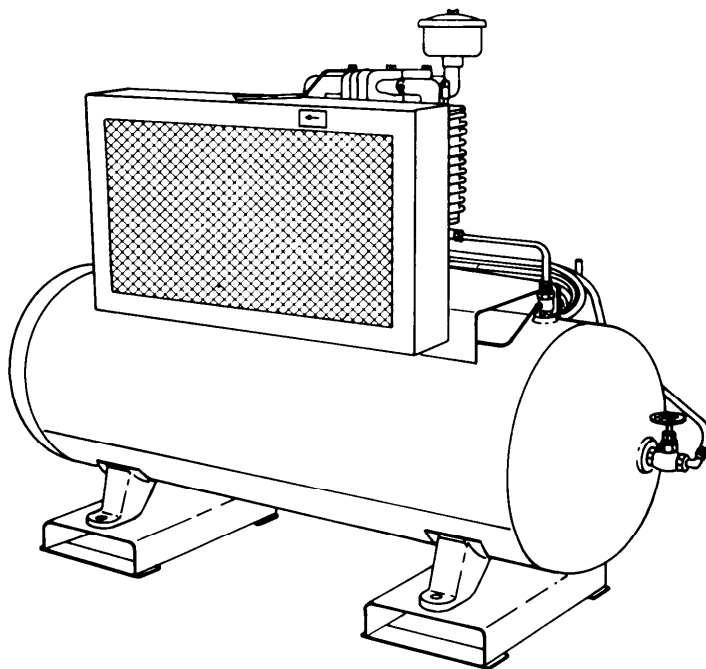
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THREE-QUARTER FRONT VIEW



THREE-QUARTER REAR VIEW

*Figure 1-1. Air compressor unit*

CHAPTER 1  
INTRODUCTION

Section I. GENERAL INFORMATION

**1-1. Scope.** This manual contains operator, organizational, direct support, and general support maintenance for the Air Compressor Unit, Model RI22RAAB. This unit is manufactured by Davey Compressor Company, Cincinnati, Ohio 45242 (FSCM 16004) under Part Number 84950. The air compressor is of reciprocating design, electric motor driven, tank mounted. Refer to figure 1-1 for identifying views. Output capacity of the unit is 15 cubic feet per minute (cfm) at 175 pounds per square inch (psi) [0.425 cubic meters per minute (m<sup>3</sup>/min) at 12.3 kilograms per square centimeter (kgs/cm<sup>2</sup>)]. The compressors are intended for use as a source of compressed air in normal operations conducted at filling stations and vehicle maintenance shops.

**1-2. Maintenance forms and records.** Department of the Army forms and procedures used for equipment maintenance will be those prescribed by TM 38-750, The Army Maintenance Management System (TAMMS).

**1-3. Hand receipt (-HR) manuals.** This manual has a companion document with a TM number followed by “-HR” (which stands for Hand Receipt). The TM 5-4310-375-14-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, AR310-2:

US Army Publications Center  
2800 Eastern Blvd.  
Baltimore, MD 21220

**1-4. Reporting equipment improvement recommendations (EIR's).** If your air compressor unit 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. Put it on an SF 368 (Quality Deficiency Report). Mail it to us at: Commander, US Army Troop Support and Aviation Materiel Readiness Command, ATTN: DRSTS-MPSD, 4300 Goodfellow Blvd., St. Louis, MO 63120. We'll send you a reply.

**1-5. Warranty information.** The air compressor unit, Models RI22RAAB, is warranted by Davey Compressor Company for 12 months or 1000 hours, whichever comes first. Report all defects in material or workmanship to your supervisor, who will take appropriate action through your organizational maintenance shop.

**1-6. Nomenclature cross-reference list.** The listing below includes nomenclature cross-reference used throughout this manual.

| Common Name    | Official Nomenclature                                                                                                                         |
|----------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| Air compressor | Compressor Unit, Reciprocating, 15 CFM (0.425 m <sup>3</sup> /min), 175 PSI (12.3 kgs/cm <sup>2</sup> ), Electric Motor Driven, Tank Mounted. |
| Motor          | Motor Assembly, Electric, 7-1/2 HP, 1725 RPM, 213T Frame, 230/460 Volts, 3 Phase, 60 Hertz.                                                   |

**1-7. List of abbreviations.** Abbreviations used in this manual are in accordance with Military Standard, MIL-STD-12, and are defined at their first appearance in the manual.