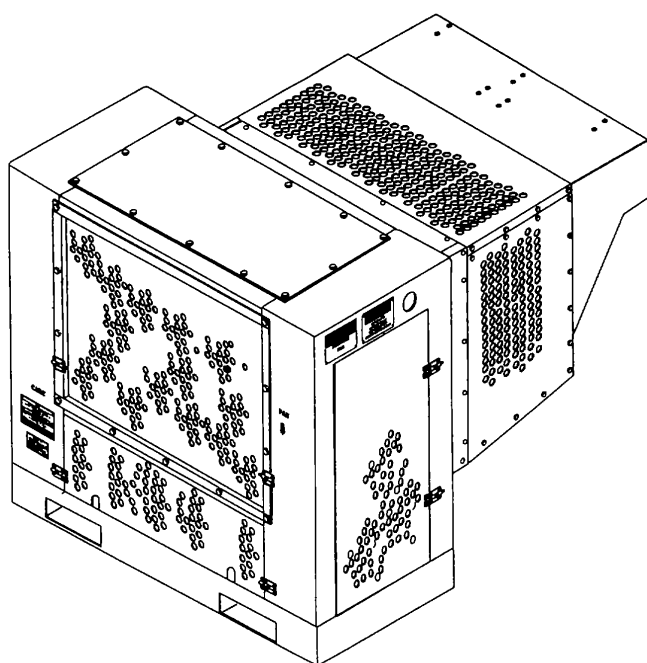


TECHNICAL MANUAL

OPERATOR'S, UNIT, AND DIRECT SUPPORT MAINTENANCE MANUAL



REFRIGERATION UNIT, MECHANICAL,
9K BTU, ELECTRIC
MODEL F9000RE

(4110-01-394-6473)

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19 JANUARY 1996

TECHNICAL MANUAL

NO. 9-4110-258-13

HEADQUARTERS
DEPARTMENT OF THE ARMY
WASHINGTON, D.C., 19 January 1996

OPERATOR'S, UNIT, AND DIRECT SUPPORT
MAINTENANCE MANUAL
FOR
REFRIGERATION UNIT, MECHANICAL,
9K BTU, ELECTRIC
MODEL F900ORE
4110-01-394-6473

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 these 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 <mpmt%avma28st-louis-emh7.army.mil>. A reply will be furnished directly to you. Instructions for sending an electronic 2028 may be found at the back of this manual immediately preceding the hard copy 2028.

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HOW TO USE THIS MANUAL

Be sure to read all Warnings before using this equipment.

This manual contains instructions for operation and maintenance of the Refrigeration Unit. The front cover index of this manual lists the areas of the manual used most often and guides you to those sections.

Follow the black mark on the cover index edge through the pages to the edge mark on the section you want. A detailed alphabetical index is located at the back of the manual.

Chapter 1 - Provides general information, technical description of the equipment, and principles of operation.

Chapter 2 - Provides complete operating instructions for the equipment. These instructions include identification of controls and indicators, preventive maintenance required, checks and services required, and specialized instructions for abnormal operating conditions.

Chapter 3 - Provides operator level troubleshooting and maintenance procedures for the equipment.

Chapter 4 - Provides unit maintenance level procedures for receiving and installing the equipment, preparing it for operation, preventive maintenance required, checks and services required, troubleshooting and maintenance procedures, and information to prepare the equipment for short or long term storage and shipment.

Chapter 5 - Provides direct support maintenance level troubleshooting and maintenance procedures for the equipment.

Appendix A - Provides a list of frequently used forms and publications referenced or used in this manual.

Appendix B - Identifies repairable components and the maintenance level authorized to perform the repairs.

Appendix C - Lists any loose components that are part of the equipment and any other basic items required.

Appendix D - Lists any additional items authorized for the support of the equipment.

Appendix E - Lists the expendable and durable materials needed to operate and maintain the equipment.

Appendix F - Provides information to make any item authorized to be manufactured or fabricated to maintain the equipment.

Appendix G - Lists all hardware or component parts that cannot be used again after being removed from the equipment.

Glossary - Lists acronyms, unusual terms, and abbreviations with their definitions as used in this manual.

Alphabetical Index - Lists the paragraphs contained within this manual in alphabetical order with their paragraph numbers.

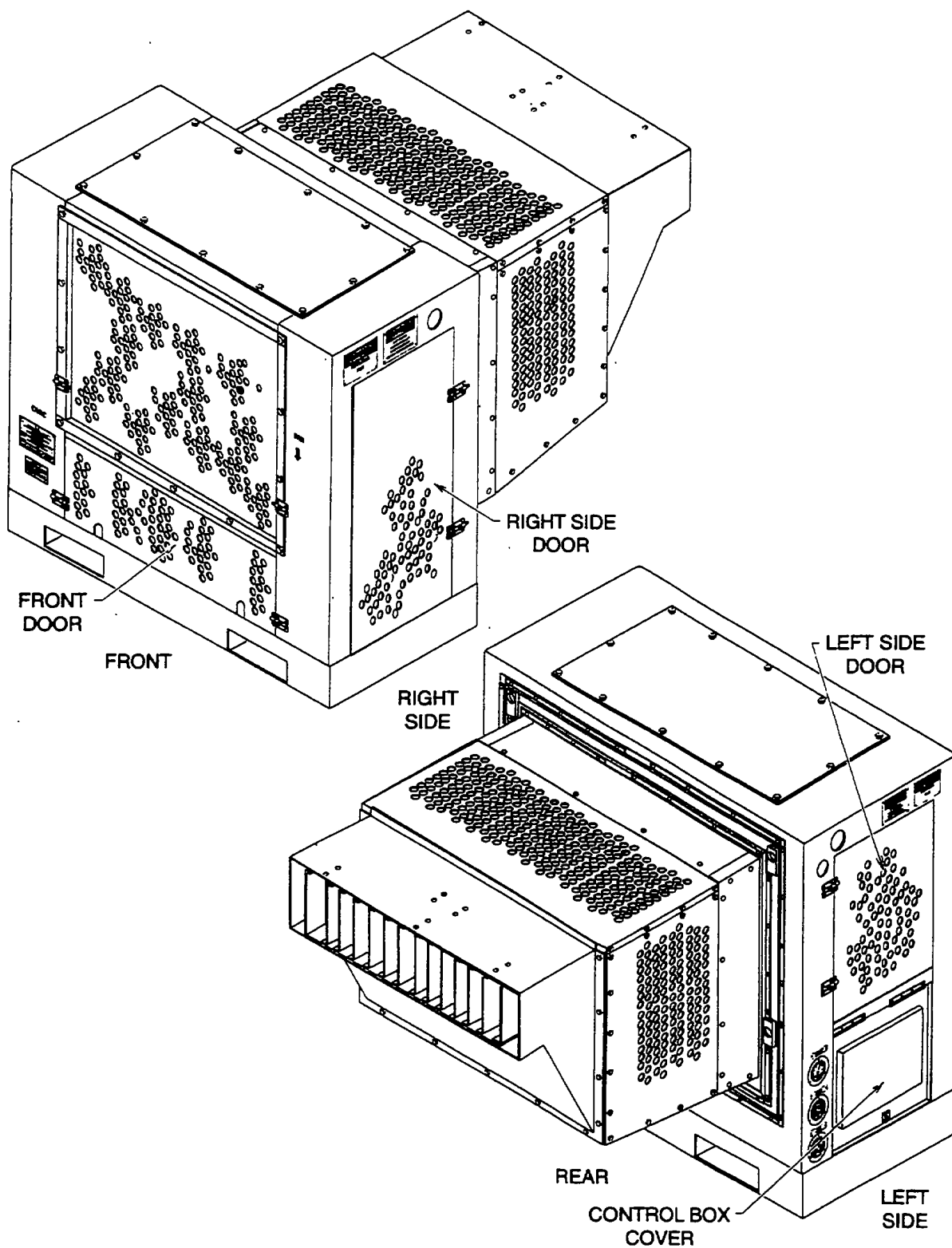


Figure 1-0. Refrigeration Unit

CHAPTER 1

INTRODUCTION

SECTION I GENERAL INFORMATION

1.1 SCOPE.

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

1.1.2 Model Number and Equipment Name. Model F9000RE, Mechanical, Electric motor driven, 9,000 btu per hour Refrigeration Unit.

1.1.3 Purpose of Equipment. The refrigeration unit is intended for worldwide military use in the field and at sea under adverse climatic and operating conditions without protection from the elements. The units are designed to automatically control the interior temperature of an eight foot by eight foot by twenty foot long insulated container with both cooling and heating. In use, the units are mounted with evaporator section extending into the opening provided in military refrigerated containers.

1.2 MAINTENANCE FORMS. RECORDS AND REPORTS.

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.

1.3 DESTRUCTION OF ARMY MATERIAL TO PREVENT ENEMY USE.

Refer to TM 750-244-3 for specific instruction on the destruction of army material to prevent enemy use.

1.4 PREPARATION FOR STORAGE OR SHIPMENT.

Refer to Chapter 4 for specific information under the same heading.

1.5 QUALITY ASSURANCE.

Requirement for specific quality assurance steps are not applicable to this equipment.

1.6 NOMENCLATURE CROSS-REFERENCE LIST. A shortened nomenclature is used in this manual to make procedures easier for you to read. A cross-reference between the shortened nomenclature and the official nomenclature is shown in the following table.

Manual Nomenclature	Official Nomenclature
Refrigeration Unit	Refrigeration Unit, Mechanical, 9K btu, Electric, Model F9000RE
Refrigerator Enclosure	Prefabricated Panel Type Refrigerator