

48VL-C, 48VL-E, 48VL-F
Comfort™14 SEER Single-Packaged Air
Conditioner and Gas Furnace System with Puron®
(R-410A) Refrigerant
Single Phase 2-5 Nominal Tons (Sizes 24-60)
Three Phase 3-5 Nominal Tons (Sizes 36-60)



Installation Instructions

IMPORTANT: Effective January 1, 2015, all split system and packaged air conditioners must be installed pursuant to applicable regional efficiency standards issued by the Department of Energy.

NOTE: Read the entire instruction manual before starting the installation.

NOTE: Installer: Make sure the Owner's Manual and Service Instructions are left with the unit after installation.

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Fig. 1 – Unit 48VL
(Low NOx Model Available)


Safety Considerations

Improper installation, adjustment, alteration, service maintenance, or use can cause explosion, fire, electrical shock, or other conditions which may cause death, personal injury, or property damage. Consult a qualified installer, service agency, or your distributor or branch for information or assistance. The qualified installer or agency must use factory-authorized kits or accessories when modifying this product. Refer to the individual instructions packaged with the kits or accessories when installing.

Follow all safety codes. Wear safety glasses, protective clothing, and work gloves. Have a fire extinguisher available. Read these instructions thoroughly and follow all warnings or cautions included in literature and

attached to the unit. consult local building codes, the current editions of the National Fuel Gas Code (NFPA 54/ANSI Z223.1, and the National Electrical Code (NEC) NFPA 70.

In Canada refer to the current editions of the National Standards of Canada CAN/CSA-B149.1 and 2 Natural Gas and Propane Installation codes, and Canadian Electrical Code CSA C22.1

Recognize safety information. This is the safety-alert symbol . When you see this symbol on the unit and in instructions or manuals, be alert to the potential for personal injury. Understand these signal words: DANGER, WARNING, and CAUTION. These words are used with the safety-alert symbol. DANGER identifies the most serious hazards which will result in severe personal injury or death. WARNING signifies hazards which could result in personal injury or death. CAUTION is used to identify unsafe practices which may result in minor personal injury or product and property damage. NOTE is used to highlight suggestions which will result in enhanced installation, reliability, or operation.

WARNING

ELECTRICAL SHOCK HAZARD

Failure to follow this warning could result in personal injury or death. Before installing or servicing system, always turn off main power to system and install lockout tag. There may be more than one disconnect switch. Turn off accessory heater power switch if applicable.

WARNING

FIRE, EXPLOSION, ELECTRICAL SHOCK AND CARBON MONOXIDE POISONING HAZARD

Failure to follow this warning could result in personal injury or unit damage.

A qualified installer or agency must use only factory-authorized kits or accessories when modifying this product.

Introduction

This unit (see Fig. 1) is a fully self-contained, combination Category I gas heating/electric cooling unit designed for outdoor installation. (See Fig. 3 and Fig. 4 for unit dimensions). All unit sizes have return and discharge openings for both horizontal and downflow configurations, and are factory shipped with all downflow duct openings covered. Units may be installed either on a rooftop or on a cement slab. (See Fig. 5 for roof curb dimensions).

In gas heating mode, this unit is designed for a minimum continuous return-air temperature of 55°F (13°C) db and a maximum continuous return-air temperature of 80°F (27°C) db. Failure to follow these return-air temperature limits may affect reliability of heat exchangers, motors, and other components.

Carrier Instruction Manual

Katrin Zwirglmaier



Carrier Instruction Manual:

Technical Manual United States. War Department,1977 Technical Manual United States Department of the Army,1955 Guide to Technical Documents Naval Civil Engineering Laboratory (Port Hueneme, Calif.),1974

Telecommunications Engineering and Construction Manual United States. Rural Electrification Administration,1977 Field Manuals United States. War Department,1948 Handbooks Defense Documentation Center (U.S.),1962 German Army Manuals of World War II Charles Lemons,2011 Instruction Book for Electric Generating Set, 2 1/2 KW, Model BX-2435 ,1943 **Index of Technical Manuals, Technical Regulations, Technical Bulletins,**

Supply Bulletins, Lubrications Orders, and Modification Work Orders United States. Department of the Army,1954

Time and Frequency Users' Manual Institute for Basic Standards (U.S.). Time and Frequency Division,1977 This manual has been written for the person who needs information on making time and frequency measurements It has been written at a level that will satisfy those with a casual interest as well as laboratory engineers and technicians who use time and frequency every day It gives a brief history of time and frequency discusses the roles of the National Bureau of Standards and the U S Naval Observatory and explains how time and frequency are internationally coordinated It also explains what time and frequency services are available and how to use them It discusses the accuracy that can be achieved using the different services as well as the pros and cons of using various calibration methods **Insurance Handbook for the Medical**

Office Marilyn Fordney,2013-01-01 A complete guide to insurance billing and coding Insurance Handbook for the Medical Office 13th Edition covers all the plans that are most commonly encountered in clinics and physicians offices Its emphasis on the role of the medical insurance specialist includes areas such as diagnostic coding procedural coding Medicare HIPAA and bill collection strategies Learning to fill in the claim form accurately is made easier by the use of icons for different types of payers lists of key abbreviations and numerous practice exercises This edition provides the latest on hot topics such as ICD 10 healthcare reform the new CMS 1500 form and electronic claims Trusted for more than 30 years this proven reference from Marilyn Fordney prepares you to succeed as a medical insurance professional in any outpatient setting Emphasis on the business of running a medical office highlights the importance of the medical insurance specialist in filing clean claims solving problems and collecting overdue payments Key terms and key abbreviations are defined and emphasized reinforcing your understanding of new concepts and terminology Detailed tables boxes and illustrations call out key points and main ideas Unique Color coded icons clarify information rules and regulations for different payers An Evolve companion website enhances learning with performance checklists self assessment quizzes and the Student Software Challenge featuring cases for different payer types and an interactive CMS 1500 form to fill in A workbook contains learning tips practice exercises for key terms and abbreviations review questions study outlines performance objectives a chapter with practice tests and critical thinking activities for hands on experience with real world cases Available separately Updated coverage of key health

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Time and Frequency Users' Manual National Measurement Laboratory (U.S.). Time and Frequency Division,1979

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International supply chains operate through efficient and secure processes especially regarding the location and conditions under which the delivery of goods subject to sale will occur To delineate their respective obligations companies engaged in international transactions rely on a standardized set of terms and regulations known as the Incoterms rules The International Chamber of Commerce ICC regularly revises and issues these rules to keep them current with industry practices This manual explains in a didactic manner the effective use of the Incoterms 2020 rules and provides criteria for choosing the most appropriate rule for each sales transaction The author offers valuable insights to minimize business risks optimize costs and facilitate operations in international markets This book is aimed at professionals in international trade and freight transportation as well as those involved in training in these fields It includes examples practical cases and self assessment tests to strengthen training and professional performance

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