

**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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481700-000

**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 Comfort Zone Manual

**S Baum**



## **Carrier Comfort Zone Manual:**

**Technical Manual** ,1941      **Flight Surgeon's Manual** United States. Department of the Air Force,1954      **Clinical Manual of Contact Lenses** Edward S. Bennett,Vinita Allee Henry,2013-08-20 Designed to be used as a quick reference this fourth edition of the Clinical Manual of Contact Lenses allows readers to easily find the topic and information they need without having to search through an entire chapter to find it Rigid gas permeable lens design and fitting soft lens problem solving astigmatic management and bifocal correction are just a few of the subjects covered in this manual Each chapter includes sample cases to reinforce and demonstrate the practical nature of the topic with nomograms and proficiency checklists summarizing and emphasizing the important points With this guide students and practitioners will have a dependable resource to help fit evaluate and troubleshoot any contact lenses especially specialty designs for years to come

Manual of Design Criteria, Military Construction, High Temperature Hot Water Heating Systems ,1953      **Manual of Ocular Diagnosis and Therapy** Deborah Pavan-Langston,2008 Thoroughly updated for its Sixth Edition this manual is a highly practical guide to the diagnosis and management of eye disorders and injuries Experts from Harvard Medical School and the Massachusetts Eye and Ear Infirmary present authoritative state of the art recommendations in a rapid access outline format Appendices include up to date ophthalmic drug and systemic antimicrobial formularies with dosages All chapters have been updated to include the latest information on new disease entities diagnostic techniques drugs and treatments including LASIK and LASEK surgery cataract extractions intraocular lenses use of botulinum for blepharospasm and medical treatment of glaucoma Thirty new full color images have been added      *Pummeled to Death by Hamburger* David A Dawson,2017-01-28 Follow the journey of Michael J Dunston as he slogs his way through the system while staying on the fringes of the medical cannabis industry Michael must navigate a web of intrigue rumors and fabrications created by entities designed to thwart the medical cannabis industry as well as destroy Michael

**The IMLI Manual on International Maritime Law** David Joseph Attard,Malgosia Fitzmaurice,Norman Martinez,Riyaz Hamza,2016-03-24 This three volume Manual on International Maritime Law presents a systematic analysis of the history and contemporary development of international maritime law by leading contributors from across the world Prepared in cooperation with the International Maritime Law Institute the International Maritime Organization s research and training institute this a uniquely comprehensive study of this fundamental area of international law Volume III is devoted to the marine environmental law and maritime security law The first part of Volume III deals in depth with issues of most fundamental importance in the contemporary world namely how to protect the marine environment from pollution from ships land based sources seabed activities and from or through air In explaining these types of pollution various conventions concluded under the auspices of the IMO such as MARPOL 73 78 and the 1972 London Convention and soft law documents are analysed The volume also includes chapters on the conventions relating to pollution incident preparedness response cooperation and the relevance of

regional cooperation It additionally discusses liability and compensation for pollution damage The second part of volume III examines an issue of increasing importance in a world threatened by terrorism piracy and drug trafficking Chapters in this part cover the topics of piracy stowaways human trafficking illicit drugs terrorism military uses of the sea and new maritime security threats such as the illegal dumping of hazardous wastes and toxic substances as well as illegal unreported and unregulated fishing

**Energy in the Design Process** Karl J. Linton,1980 *Modelling Scale Figures* Mark Bannerman,2011-03-15 This book equips the beginner and intermediate modellers with the techniques required to successfully complete a figure from start to finish and provides clear and easy to follow instructions on how to select prepare assemble modify and paint realistic figures It also offers a round up of the range of figures available a discussion of scale and how to work in differing scales as well as detailing the tools and materials you will need to get going Modelling expert Mark Bannerman then provides an insight into construction and painting techniques in clear step by step tutorials that will increase confidence and develop better technique Covering the four most modelled historical periods Medieval Napoleonic the American Civil War and the World Wars this book is the comprehensive guide to figure modelling

**Highway Safety Literature** ,1977 *Book 5: Learn @ Home Coaching Rugby Union Project* Bert Holcroft,2014-01-21 The Holcroft saga a rugby story the like of which may never have been equalled in the history of the game It begins over a century ago when Mr George Holcroft was given charge of Leigh St Peters R L F C in 1889 He married and when his family grew up Jack Harry William and Tom all played for local teams They married and George s grandsons Bert and Bill also played Bert Holcroft has been a distinguished servant for the game of Rugby all his life He holds coaching certificates from BOTH the Australian and British governing bodies one of only a handful of men to achieve such an honour in the game s history For 20 odd years Bert Holcroft has had one of the unlikeliest jobs in sport teaching Australian Rugby Coaches how to coach Considering the Australian dominance of World Rugby in recent years that might seem a par with taking coal to Newcastle But make no mistake Bert Holcroft has done as much as anyone to ensure Australia s re emergence as a major Rugby power On the face of it Australia wouldn t seem to need any outside help let alone from a Pom Their record of only one Test defeat since 1978 speaks for itself But Bert s reputation is nation wide down under quite simply he s one of the best in the business Bert who played for Leigh between 1950 60 has spent much of his latter years Down Under lecturing to top grade coaches in New South Wales Born and bred in Cameron Street Leigh Bert has few peers when it comes to teaching the basics of the 13 a side game Since emigrating in the late 60 s Bert has dedicated his life to coaching and fitness techniques Teams in Queensland New South Wales and Sydney have all come under his influence often with spectacular results Bert s credentials are impeccable Last summer he achieved the highest accolade in Australia his Grade Three certificate personally signed by the then Australian league chairman Kevin Humphreys and the Director of Coaching Peter Corcoran Three years earlier Bert has sailed through his Grade One and Two with flying colours In 1953 he was awarded his senior coaching certificate in England

Bert who held a number of posts at Hilton Park before emigrating to Australia has spent a lot of his time heavily involved with Rugby in the universities there He became director of coaching for the University of New South Wales and later coach of the Combined Universities side Coaching Accreditation awarded by the Australian Institute of Sport Department of Sport and Recreation NSW and the NSW Rugby League for administration as well as being awarded National Coaching Certificates in both Britain and Australia one of only a handful of people to do so Eventually the offer of a job in Sydney came to coach Premiership glamorous club Eastern Suburbs

*Wave Forms* James H. Bunn, 2002 In this daring book the author proposes that artistic and literary forms can be understood as modulations of wave forms in the physical world By the phrase natural syntax he means that physical nature enters human communication literally by way of a transmitting wave frequency This premise addresses a central question about symbolism in this century How are our ideas symbolically related to physical reality The author outlines a theory of communication in which nature is not reached by reference to an object rather nature is part of the message known only tacitly as the wavy carrier of a sign or signal One doesn't refer to nature even though one might be aiming to one refers with nature as carrier vehicle The author demonstrates that a natural language of transmission has an inherent physical syntax of patterned wave forms which can also be described as certain laws of form a phrase used by D Arcy Thompson L L Whyte Noam Chomsky and Stephen Jay Gould He describes a syntax inherent in natural languages that derives from the rhythmic form of a propelling wave Instead of the laws of a wave's form however the author speaks of its elements of rhythmic composition because *rythmos* means wave in Greek and because composition describes the creative process across the arts In pursuing a philosophy of rhythmic composition the author draws on cognitive science and semiotics But he chiefly employs symmetry theory to describe the forms of art and especially the patterns of poetry as structures built upon the natural syntax of wave forms Natural syntax it turns out follows a fascinating group of symmetry transformations that derive from wave forms

*The Advertising Red Books*, 2010 *The Report: Myanmar 2020* Oliver Cornock, Foreign companies are showing interest in Myanmar's geostrategic location abundant natural resources and youthful population A focus on following international best business practices and reducing the informal economy paired with an annual GDP growth forecast at around 6% in the coming years is setting Myanmar on a path to catch up with some regional peers

**Printers' Ink Monthly**, 1938 **Popular Science**, 1992-04 Popular Science gives our readers the information and tools to improve their technology and their world The core belief that Popular Science and our readers share The future is going to be better and science and technology are the driving forces that will help make it better

*Labor Digest*, 1913 *Kinn's The Administrative Medical Assistant - E-Book* Alexandra Patricia Adams, 2013-10-21 The most comprehensive front office medical assisting resource available Kinn's The Administrative Medical Assistant 7th Edition provides unparalleled coverage of the practical real world administrative skills essential to your success in the health care office This thoroughly updated fully modernized edition combines current reliable content with innovative support tools to

deliver an engaging learning experience and help you confidently prepare for today's competitive job market. Apply what you learn to realistic administrative situations through an Applied Learning Approach that integrates case studies at the beginning and end of each chapter. Study more effectively with detailed Learning Objectives, Vocabulary terms and definitions, and Connections icons that link important concepts in the text to corresponding exercises and activities throughout the companion Evolve Resources website and Study Guide Procedure Checklist Manual. Confidently meet national medical assisting standards with clearly identified objectives and competencies incorporated throughout the text. Master key skills through step-by-step instructions and full-color illustrations that clarify procedures. Sharpen your analytical skills and test your understanding of important concepts with critical thinking exercises. Understand the importance of patient privacy with the information highlighted in helpful HIPAA boxes. Demonstrate your proficiency to potential employers with an interactive portfolio builder on the companion Evolve Resources website. Familiarize yourself with the latest administrative office trends and issues including the Electronic Health Record. Confidently prepare for the CMA and RMA certification exams with a new online appendix that mirrors the exam outlines and provides fast, efficient access to related content. Find information quickly and easily with newly reorganized chapter content and charting examples. Reinforce your understanding through medical terminology audio pronunciations. Medisoft practice management software exercises, chapter quizzes, review activities, and more on the completely revised companion Evolve Resources website.

*Standard Handbook for Mechanical Engineers*, 1967  
*Advances in Solar Energy* Karl W. Boer, John A. Duffie, 2012-12-06  
 A number of significant changes have occurred in *Advances in Solar Energy* since Volume 1 appeared in 1982. The delays in publication of the second volume are the result of reorganization of the American Solar Energy Society and the negotiation of a new publishing arrangement. Beginning with this volume, *Advances* is now published jointly by the Society and Plenum Press. The Editorial Board has been enlarged to be more representative of the different fields of solar energy conversion. Production of *Advances* is being expedited through the use of modern word processing equipment and the LEX typesetting/editing program. We have gone to a single column format to ease the problems of presenting long equations, and we expect that the user of the volume will find it easy to read. The use of LEX will make last-minute updates possible. The external appearance of the volume matches that of Volume 1. We expect that future volumes of this annual will be proceeding on schedule. We invite comments from users and correspondence from prospective authors of critical reviews.  
 Karl W. Boer, John A. Duffie  
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 Ronald Stewart, Daniel W. Spencer, and Richard Perez  
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The book delves into Carrier Comfort Zone Manual. Carrier Comfort Zone Manual is an essential topic that needs to be grasped by everyone, from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Carrier Comfort Zone Manual, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:
  - Chapter 1: Introduction to Carrier Comfort Zone Manual
  - Chapter 2: Essential Elements of Carrier Comfort Zone Manual
  - Chapter 3: Carrier Comfort Zone Manual in Everyday Life
  - Chapter 4: Carrier Comfort Zone Manual in Specific Contexts
  - Chapter 5: Conclusion
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3. In chapter 2, the author will delve into the foundational concepts of Carrier Comfort Zone Manual. The second chapter will elucidate the essential principles that need to be understood to grasp Carrier Comfort Zone Manual in its entirety.
4. In chapter 3, this book will examine the practical applications of Carrier Comfort Zone Manual in daily life. This chapter will showcase real-world examples of how Carrier Comfort Zone Manual can be effectively utilized in everyday scenarios.
5. In chapter 4, the author will scrutinize the relevance of Carrier Comfort Zone Manual in specific contexts. This chapter will explore how Carrier Comfort Zone Manual is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, this book will draw a conclusion about Carrier Comfort Zone Manual. The final chapter will summarize the key points that have been discussed throughout the book.

The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Carrier Comfort Zone Manual.

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web in the diagram below you can see the absorption spectra of three key pigments in photosynthesis chlorophyll a chlorophyll b and  $\beta$  carotene the set of wavelengths that a pigment doesn't absorb are reflected and the reflected light is what we see as color

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web arrange the colors in the absorption spectrum of chlorophyll in order of their visibility put the most visible color first green yellow orange red violet blue 9 12 below is a bar graph of the percentage of light energy reflected by chlorophyll it was derived from the chlorophyll absorption spectrum

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web of blue and red light of the split spectrum a first action spectrum of photosynthesis was thus described it resembles roughly the absorption spectra of chlorophyll a and b discussed in section 13 4 by the middle of the nineteenth century the key features of plant photosynthesis were known namely that plants could use light energy

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