Visat ways carrier com-

## Installation and Start-Up Instructions

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

This symbol -- indicates a change since the last issue.

#### 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. Use quenching cloth for brazing operations. Have 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 and National Electrical Code (NEC) for special requirements.

Recognize safety information. This is the safety-alert symbol  $A_{\infty}$ . When you see this symbol on the unit and in instructions or manuals, be alert to the potential for personal injury.

Understand the signal words DANGER, WARNING, CAUTION, and NOTE. 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 would 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.

#### A WARNING

Before installing, modifying, or servicing system, main electrical disconnect switch must be in the OFF position. There may be more than I disconnect switch. Lock out and tag switch with a suitable warming label. Electrical shock can cause personal injury or death.

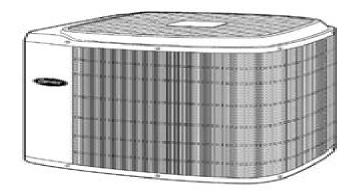
#### A CAUTION

Puron® Refrigerant systems operate at higher pressures than standard R-22 systems. Be certain that service equipment is rated for R-410A. Some R-22 service equipment may not be acceptable. Check with your distributor.

#### INSTALLATION RECOMMENDATIONS

NOTE: In some cases noise in the living area has been traced to gas pulsations from improper installation of equipment.

 Locate unit away from windows, patios, decks, etc. where unit operation sound may disturb customer.



A98616

Fig. 1-Model 38YDB

- Ensure that vapor and liquid tube diameters are appropriate to capacity of unit.
- Run refrigerant tubes as directly as possible by avoiding unnecessary turns and bends.
- When passing refrigerant tubes through the wall, seal opening with RTV or other pliable silicon-based caulk. (See Fig. 2.)
- Avoid direct tubing contact with water pipes, duct work, floor joists, wall studs, floors, and walls, and brick.
- Do not suspend refrigerant tubing from joists and studs with a rigid wire or strap which comes in direct contact with tubing. (See Fig. 2.)
- When necessary, use hanger straps which are 1 in. wide and conform to shape of tubing insulation. (See Fig. 2.)
- Isolate hanger straps from insulation by using metal sleeves bent to conform to shape of insulation.
- Ensure that tubing insulation is pliable and completely surrounds vapor tube.

Outdoor unit contains system refrigerant charge for operation with indoor unit of the same size when connected by 15 ft of field-supplied or factory accessory tubing. For proper unit operation, check refrigerant charge using charging information located on control box cover or in the Check Charge section of this instruction.

**IMPORTANT:** Maximum liquid-line size is 3/8-in. O.D. for all residential applications.

**IMPORTANT:** Only install the factory-supplied Puron® heat pump (bi-flow) liquid line filter drier. Obtain replacement filter driers from your local distributor.

# **Manual Carrier Heat Pump**

Puja Mehta

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#### **Table of Contents Manual Carrier Heat Pump**

- 1. Understanding the eBook Manual Carrier Heat Pump
  - The Rise of Digital Reading Manual Carrier Heat Pump
  - Advantages of eBooks Over Traditional Books
- 2. Identifying Manual Carrier Heat Pump
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Manual Carrier Heat Pump
  - User-Friendly Interface
- 4. Exploring eBook Recommendations from Manual Carrier Heat Pump
  - Personalized Recommendations
  - Manual Carrier Heat Pump User Reviews and Ratings
  - Manual Carrier Heat Pump and Bestseller Lists

- 5. Accessing Manual Carrier Heat Pump Free and Paid eBooks
  - Manual Carrier Heat Pump Public Domain eBooks
  - Manual Carrier Heat Pump eBook Subscription Services
  - Manual Carrier Heat Pump Budget-Friendly Options
- 6. Navigating Manual Carrier Heat Pump eBook Formats
  - ∘ ePub, PDF, MOBI, and More
  - Manual Carrier Heat Pump Compatibility with Devices
  - Manual Carrier Heat Pump Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Manual Carrier Heat Pump
  - Highlighting and Note-Taking Manual Carrier Heat Pump
  - Interactive Elements Manual Carrier Heat Pump
- 8. Staying Engaged with Manual Carrier Heat Pump
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Manual Carrier Heat Pump
- 9. Balancing eBooks and Physical Books Manual Carrier Heat Pump
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Manual Carrier Heat Pump
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Manual Carrier Heat Pump
  - Setting Reading Goals Manual Carrier Heat Pump
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Manual Carrier Heat Pump
  - Fact-Checking eBook Content of Manual Carrier Heat Pump
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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