

## Installer's Guide

# Condensing Units

**2TTB3** 

ALL phases of this installation must comply with NATIONAL, STATE AND LOCAL CODES

IMPORTANT — This Document is customer property and is to remain with this unit. Please return to service information pack upon completion of work.

These instructions do not cover all variations in systems nor provide for every possible contingency to be met in connection with installation. All phases of this installation must comply with NATIONAL, STATE AND LOCAL CODES. Should further information be desired or should particular problems arise which are not covered sufficiently for the purchaser's purposes, the matter should be referred to your installing dealer or local distributor.

#### A. GENERAL

#### A WARNING

This information is intended for use by individuals possessing adequate backgrounds of electrical and mechanical experience. Any attempt to repair a central air conditioning product may result in personal injury and or property damage. The manufacturer or seller cannot be responsible for the interpretation of this information, nor can it assume any liability in connection with its use.

#### MODIFICATION

Trane has always recommended installing Trane approved matched indoor and outdoor systems.

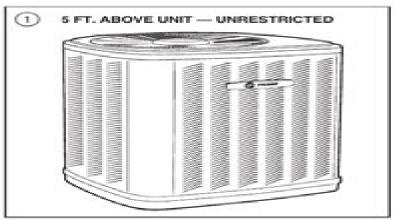
The benefits of installing approved matched systems are maximum efficiency, optimum performance and best overall system reliability.

Check for transportation damage after unit is uncrated. Report promptly, to the carrier, any damage found to the unit.

To determine the electrical power requirements of the unit, refer to the nameplate of the unit. The electrical power available must agree with that listed on the nameplate.

#### B. LOCATION AND PREPARATION OF THE UNIT

- When removing unit from the pallet, notice the tabe on the basepan. Remove tabe by cutting with a sharp tool as shown in Figure 2 (see page 2).
- The unit should be set on a level support pad at least as large as the unit base pan, such as a concrete slab. If this is not the application used please refer to application bulletin "Trane APB2001-02".
- 3. The support pad must NOT be in direct contact with any structure. Unit must be positioned a minimum of 12° from any wall or surrounding shrubbery to insure adequate airflow. Clearance must be provided in front of control box (access panels) & any other side requiring



service access to meet National Electrical Code. Also, the unit location must be far enough away from any structure to prevent excess roof run-off water from pouring directly on the unit. Do not locate unit(s) close to bedroom(s).

- The top discharge area must be unrestricted for at least five (5) feet above the unit.
- When the outdoor unit is mounted on a roof, be sure the roof will support the unit's weight. Properly selected isolation is recommended to prevent sound or vibration transmission to the building structure.
- The maximum length of refrigerant lines from outdoor to indoor unit should NOT exceed sixty (60) feet.
- If outdoor unit is mounted above the air handler, maximum lift should not exceed sixty (60) feet (suction line).
   If air handler is mounted above condensing unit, maximum lift should not exceed sixty (60) feet (liquid line).

#### NOTE:

Refer to "Refrigerant Piping Software" Pub. No. 32-3312-0" (the position of the "denotes the latest revision number).

Locate and install indoor coil or air handler in accordance with instruction included with that unit.

# **Trane Installation Manuals**

**Steven Bliss** 

### **Trane Installation Manuals:**

ASHRAE Handbook & Product Directory .1975 Heating, Ventilating, Air Conditioning Guide ,1950 Trane H.R. 3981 and H.R 3984, the Small Business Energy Conservation and Refrigeration Manual Trane Company, 1946 Commercialization Amendments United States. Congress. House. Committee on Small Business. Subcommittee on Energy, Environment, Safety, and Research, 1978 American Society of Heating and Ventilating Engineers Guide ,1960 Catalog of Copyright Entries. Third Series Library of Congress. Copyright Office, 1959 Includes Part 1 Number 1 Books and Pamphlets Including Serials and Contributions to Periodicals January June Troubleshooting Guide to Residential Construction Steven Bliss, 2005-08-26 Avoid pitfalls with these expert tips techniques for diagnosing and preventing the most common residential building defects More than 50 experts in the field describe their proven techniques for preventing building problems ASHRAE Handbook & Product Directory American Society of Heating, Refrigerating and Air-Conditioning Engineers, 1978 Moody's Manual of Investments John Sherman Porter, 1929 American government securities 1928 53 in 5 annual vols v 1 Railroad securities 1952 53 Transportation v 2 Industrial securities v 3 Public utility securities v 4 Government securities 1928 54 v 5 Banks insurance companies investment trusts real estate finance and credit The Manual of the First Church in Cambridge (Congregational); Corner of Garden and Mason companies 1928 54 Streets, Cambridge, Massachusetts Shepard Congregational Society (Cambridge, Mass.),1900 **Moody's Manual of** Catalogue of Title-entries of Books and Other Articles Entered in Investments: American and Foreign ,1924 the Office of the Librarian of Congress, at Washington, Under the Copyright Law ... Wherein the Copyright Has Been Completed by the Deposit of Two Copies in the Office Library of Congress. Copyright Office, 1923 **HVAC** Equations, Data, and Rules of Thumb, 2nd Ed. Arthur Bell, 2007-09-26 The Latest Information and Tricks of the Trade for Achieving First Rate HVAC Designs on Any Construction Job HVAC Equations Data and Rules of Thumb presents a wealth of state of the art HVAC design information and guidance ranging from air distribution to piping systems to plant equipment This popular reference has now been fully updated to reflect the construction industry s new single body of codes and standards Featuring an outline format for ease of use the Second Edition of this all in one sourcebook contains Updated HVAC codes and standards including the 2006 International Building Code Over 200 equations for everything from ductwork to air handling systems ASME and ASHRAE code specifications Over 350 rules of thumb for cooling heating ventilation and more New material including coverage of the new single body of construction codes now used throughout the country Inside This Updated HVAC Design Guide Definitions Equations Rules of Thumb for Cooling Heating Infiltration Ventilation Humidification People Occupancy Lighting and Appliance Equipment Cooling Load Factors Heating Load Factors Design Conditions and Energy Conservation HVAC System Selection Criteria Air Distribution Systems Piping Systems General Hydronic Glycol Steam Steam Condensate AC Condensate Refrigerant Central Plant Equipment Air Handling Units Chillers

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