



**TRANE®**

*It's Hard To Stop A Trane.®*

# INSTALLER'S GUIDE

Model: **TTR018D, TTR025-036C,  
& TTR042-60D**

18-AC41D16-5

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## Condensing Units

**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

**NOTICE:** These outdoor units may be used with indoor units equipped with Capillary Tube, Thermostatic Expansion Valve or the Accutron™ Flow Control Check Valve (F.C.C.V.) assembly for refrigerant flow control.

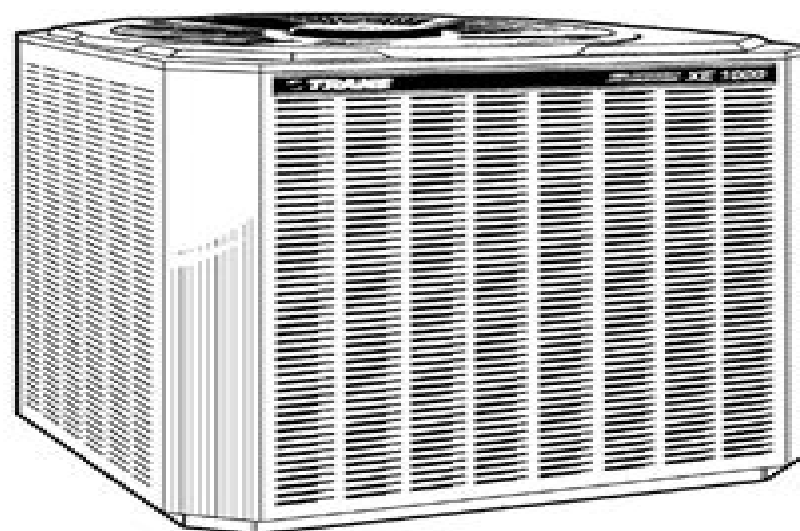
Check for transportation damage after unit is uncrated. Report promptly, to the carrier, any damage found to the unit.

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 & PREPARATION OF THE UNIT

1. The unit should be set on a level support pad at least as large as the unit base pan.
2. The support pad must **NOT** be in direct contact with any structure. The unit must be positioned a minimum of 12" from any wall or surrounding shrubbery to insure adequate airflow. A 30" clearance must be provided in front of control box (access panels) & any other side requiring service access to meet National Electrical Code. The unit must be far enough away from any structure to prevent excess roof run-off water from pouring directly on the unit.
3. The top discharge area must be unrestricted for at least five (5) feet above the unit.
4. When the outdoor unit is mounted on a roof, be sure the roof will support the unit's weight. Properly selected vibration isolators are recommended to prevent transmission to the building structure.
5. The maximum length of refrigerant lines from outdoor to indoor unit should **NOT** exceed eighty (80) feet.

### 1 TOP DISCHARGE — UNRESTRICTED 5 FT. ABOVE UNIT



6. If the outdoor unit is mounted above the air handler, maximum lift should not exceed sixty (60) feet (suction line). If air handler is mounted above the condensing unit, maximum lift should not exceed sixty (60) feet (liquid line).

**NOTE:** Refer to "Refrigerant Piping Guide", Pub. No. 22-3238-01.

7. Locate and install indoor coil or blower coil in accordance with instruction included with that unit.

# Trane Heat Pump Installation Guide

**B Lingard**



## **Trane Heat Pump Installation Guide:**

**Heating, Ventilating, Air Conditioning Guide**, 1925 American Society of Heating and Ventilating Engineers Guide, 1923 Electrical Inspection Manual, 2014 Edition Noel Williams, Jeffrey S. Sargent, 2014-02-13 Packed with precise step by step checklists detailed illustrations and informative chapter explanations the Electrical Inspection Manual 2014 Edition identifies important Code rules and provides guidance on how to organize checklists by occupancy type to increase thoroughness and decrease the likelihood of overlooking potential problems Written by certified electrical inspectors and endorsed by the National Fire Protection Association NFPA and the International Association of Electrical Inspectors IAEI this fully illustrated manual explains significant tasks defines terms outlines key questions and provides a concise overview of the electrical inspection process The training manual is intended to assist electrical inspectors as well as anyone performing a review for Code compliance in advance of a professional inspection This audience may include but is not limited to designers insurance inspectors architects installers project managers and safety officers **American Society of Heating and Ventilating Engineers Guide** American Society of Heating and Air-Conditioning Engineers, 1923 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 *Plant Engineers and Managers Guide to Energy Conservation* Albert Thumann, Scott C. Dunning, 2020-12-17 Completely revised and updated this tenth edition of a bestseller covers both management and technical strategies for slashing energy costs by as much as 40 percent in industrial facilities It discusses cogeneration gas distributed generation technologies steam system optimization geothermal heat pumps energy outsourcing electricity purchasing strategies and power quality case studies It also provides guidelines for life cycle costing electrical system optimization lighting and HVAC system efficiency improvement mechanical and process system performance building energy loss reduction financing energy projects and more Handbook of Heating, Ventilation, and Air Conditioning Jan F. Kreider, 2000-12-26 The building industry accounts for about 25 percent of the US gross national product through the design construction operation and maintenance of commercial institutional and residential buildings The Handbook of Heating Ventilation and Air Conditioning provides a current comprehensive review of the latest procedures and trends in the industry It combines practice and theory systems and control and modern methods and technologies to provide in one volume all of the design and operation information needed by HVAC engineers Through a link on the CRC Web site owners of the handbook can access new material periodically posted by the author **ASHRAE Handbook & Product Directory**, 1975 *The Aerologist*, 1929 **Handbook of Energy Engineering, Sixth Edition** Albert Thumann, D. Paul Mehta, 2001-01-31 This fully updated comprehensive reference will guide you step by step in applying the principles of energy engineering and management to the design of electrical HVAC utility process and building systems for both new and retrofit projects You will

learn how to do an energy analysis of any system Detailed presentations cover electrical system optimization state of the art lighting and lighting controls thermal storage cogeneration HVAC system optimization HVAC and building controls and computer technologies The fifth edition includes a new chapter covering codes standards and legislation as well as a new chapter on compressed air systems You ll also find coverage on use of innovative third party financing mechanisms such as performance contracting to implement energy cost reduction measures The text is thoroughly illustrated with tables graphs diagrams and sample problems with worked out solutions

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**Air Conditioning and Refrigeration Engineering** Frank Kreith,Shan K. Wang,Paul Norton,2018-04-20 An air conditioning system consists of components and equipment arranged in sequential order to control and maintain an indoor environment The goal is to provide a healthy and comfortable climate with acceptable air quality while being energy efficient and cost effective Air Conditioning and Refrigeration Engineering covers all types of systems from institutional and commercial to residential The book supplies the basics of design from selecting the optimum system and equipment to preparing the drawings and specifications It discusses the four phases of preparing a project gathering information developing alternatives evaluating alternatives and selling the best solution In addition the author breaks down the responsibilities of the engineer design documents computer aided design and government codes and standards Air Conditioning and Refrigeration Engineering provides you with an easy reference to all aspects of the topic This resource addresses the most current areas of interest such as computer aided design and drafting desiccant air conditioning and energy conservation It is a thorough and convenient guide to air conditioning and refrigeration engineering

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Clean Economy Now Bob Keefe,2024-04-02 An inspiring look at the Clean Energy Revolution Combining the instincts of a journalist and the insight of the leader of a national business organization at the forefront of climate policy Bob Keefe provides the first in depth look at how the most

important climate action in history is reshaping our economy the way we live and the future of our planet He shows how the future long predicted by pundits policymakers and prognosticators has arrived and how smart businesses and communities are seizing the opportunities that come with it Keefe introduces readers to the next generation of clean energy entrepreneurs and innovators and takes us to places like Kings Mountain N C and Blue Oval City Tenn modern day clean economy frontier towns where battery and electric vehicle factories are sprouting from fallow fields and reinvigorating communities previously bypassed by earlier economic shifts      *Handbook of Energy Engineering, Seventh Edition* Albert Thumann,D. Paul Mehta,2020-11-26 With new chapters on electrical system optimization and ISO 50001 this edition covers the latest updates to codes and standards in the energy industry It includes chapters on energy economic analysis energy auditing waste heat recovery utility system optimization HVAC cogeneration control systems energy management compressed air system optimization and financing energy projects This reference will guide you step by step in applying the principles of energy engineering and management to the design of electrical HVAC utility process and building systems for both new design and retrofit projects The text is thoroughly illustrated with tables graphs diagrams and sample problems      Electrical Inspection Manual, 2008 Edition Noel Williams,Jeffrey S. Sargent,Jeffrey Sargent,2009-09-29 Written by a certified electrical inspector and endorsed by the International Association of Electrical Inspectors IAEI the Electrical Inspection Manual carefully reviews the items inspectors are required to check on all types of electrical installations Updated for the 2008 National Electrical Code this book contains over 70 checklists for residential commercial and industrial jobs including special occupancies fire alarm circuits and more Fully illustrated chapters explain significant tasks define terms outline key questions and provide a concise overview of the electrical inspection process

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references below most courses in electroplating cover a variety of topics a general electroplating course is

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web jul 7 2021 there is still time for industrial members to join our joint industry project investigating replacement coating technologies for hard chrome plating traditional wear resistant coatings such as tungsten carbide and chromium carbide are expensive and reach legislation is becoming increasingly restrictive for the use of coatings based on

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web what is hard chrome plating hard chrome plating is a process in which a layer of chromium is applied to a surface to improve corrosion and abrasion resistance reduce friction and extend the life of parts used in extreme wear conditions how hard is hard chrome plating

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web it covers all aspects of pollution prevention for all major plating operations hard chrome plating training course is a

practical and in depth text that covers all aspects of hard chrome plating it is a valuable learning tool and reference book for both beginners and seasoned platers

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web aug 3 2018 hard chrome plating is a type of electrolytic process that makes use of an electrolyte that is based in chromic acid this part is regarded as the cathode and as dc current travels through lead anodes chromium forms on the surface of the component hard chrome plating is applicable to materials like stainless steel ferrous metals

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web sterc is publishing a hard chrome plating training course this spring this 168 page text and accompanying video are excellent tools for both new and advanced electroplaters numerous topics are covered including process chemistry testing plating equipment plating methods troubleshooting bath maintenance health and safety and pollution

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