



**TRANE®**

*It's Hard To Stop A Trane®*

# INSTALLER'S GUIDE

Models: **TWR012,018,024,030,042C  
& TWR036,048,060D**

**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.

The Weathertron® Heat Pump has been designed and manufactured to withstand and operate in severe winter conditions. However, there are precautionary steps which should be taken at the time of installation which will help assure the efficient operation of the unit. It is recommended that these precautions be taken for units being installed in areas where snow accumulation and prolonged below freezing temperatures occur.

1. Units should be elevated 3 to 12 inches above the pad or rooftop, depending on local weather. This additional height will allow better drainage of snow and ice (melted during defrost cycle) prior to its refreezing. This should prevent a build-up of ice around the unit which occurs when unit is not elevated. Insure that drain holes in unit base pan are not obstructed preventing draining of defrost water.

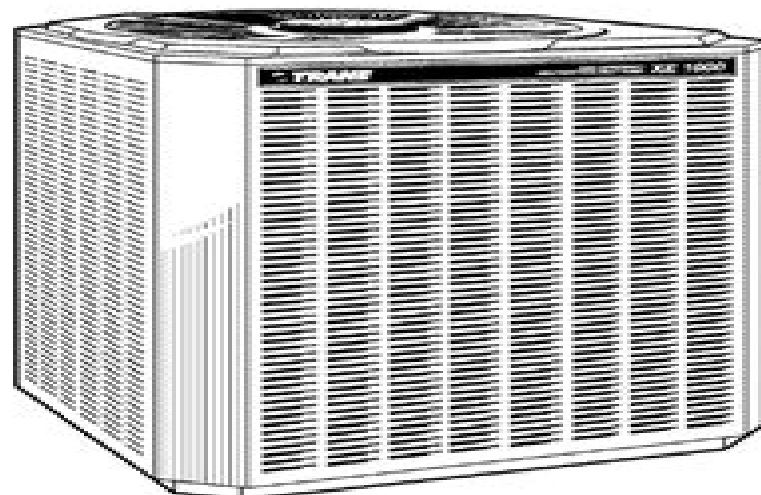
2. If possible, avoid locations that are likely to accumulate snow drifts. If not possible, a snow drift barrier should be installed around the unit to prevent a build-up of snow on the sides of the unit and should be of sufficient distance from the unit to prevent restriction of airflow to and from the unit. Also allow for proper maintenance space. The barrier should be constructed of materials which will blend in with the building design.

**TWR-IN-3E  
18-BC29D8-6**

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Product	Split System Heat Pump
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## Heat Pumps

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



3. Avoid locating the unit where condensation and freezing of defrost vapor may annoy the customer. For instance, installing the unit under a bedroom, kitchen, or picture window may be annoying to the customer since condensate and fog will occur during the defrost cycle.

4. Avoid locating the unit under the eaves or other overhead structures as sizeable icicles may form and the unit may be damaged by these falling icicles.

Since the manufacturer has a policy of continuous product improvement, it reserves the right to change specifications and design without notice.

# Manual Trane Heat Pump

**Frank Kreith, Shan K. Wang, Paul  
Norton**



## **Manual Trane Heat Pump:**

**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 *Electrical Inspection Manual, 2011 Edition* Noel Williams, Jeffrey S. Sargent, 2010-11-30 Packed with precise step by step checklists detailed illustrations and informative chapter explanations the Electrical Inspection Manual 2011 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

**Effect of Temperature Set-back on Heat Pump Performance** S. E. Kurtz, 1981 **Electrical Inspection Manual 2011** Noel Williams, Jeffrey S. Sargent, 2010-11-30 Packed with precise step by step checklists detailed illustrations and informative chapter explanations this manual 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

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 *Newnes Building Services Pocket Book* John Knight, Peter Jones, 2004 This pocket book is packed full of all the reference material that people involved in building services are ever likely to need Areas covered range from energy and environmental considerations to hot and cold water services **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     **Johnson's New Handy Manual on Plumbing, Heating, Ventilating, and Mechanical Refrigeration** John Weeks Johnson,1920     **Handbook of Energy Engineering** D. Paul Mehta,Albert Thumann,2021-09-15 With new chapters on electrical system optimization and ISO 50001 this edition also covers the latest updates to codes and standards in the energy industry Also included are 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 Additional topics include emerging technologies such as oxy fuel combustion high efficiency burners enhanced heat exchangers and ceramic membranes for heat recovery as well as information on how to do an energy analysis of any system electrical system optimization state of the art lighting and lighting controls 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     *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     **Catalog of Copyright Entries. Third Series** Library of Congress. Copyright Office,1962 Includes Part 1 Number 1 Books and Pamphlets Including Serials and Contributions to Periodicals January June     **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     A Practical Manual of Steam, Vapor and Hot Water Heatings

Edward Richmond Pierce,1922     **Operator, Organizational, Direct Support and General Support Maintenance**

**Manual** ,1988     **The Refrigerating Data Book** ,1951     **Air Conditioning Engineering** W.P. Jones,2007-08-31

Designed for students and professional engineers the fifth edition of this classic text deals with fundamental science and design principles of air conditioning engineering systems W P Jones is an acknowledged expert in the field and he uses his experience as a lecturer to present the material in a logical and accessible manner always introducing new techniques with the use of worked examples     **Troubleshooting Guide to Residential Construction** Steven Bliss,2005-08-26 Avoid

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*Ventilating Magazine* ,1918     **Air Conditioning, Heating and Ventilating** ,1920     **Refrigeration Engineering** ,1951

English abstracts from Kholodil naia tekhnika

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