

**TRANE****2TWR2-IN-1B
18-BC51D2-3**

Installer's Guide

Heat Pumps

2TWR1 & 2TWR2

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

The following instructions cover 2TWR1 and 2TWR2 Heat Pump Units.

NOTE:

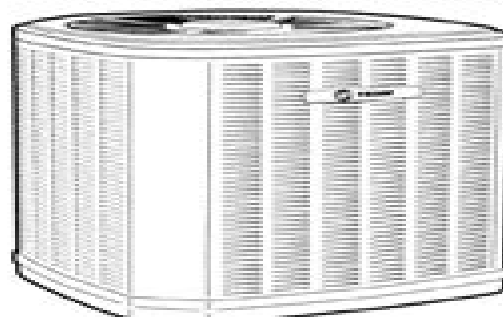
These outdoor units may be used with indoor units equipped with Thermostatic Expansion Valve or Accutron™ Flow Control Check Valve (F.C.C.V.) assembly for refrigerant flow control only.

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.

①**5 FT. ABOVE UNIT-UNRESTRICTED**

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.

B. LOCATION AND PREPARATION OF THE UNIT

1. When removing unit from the pallet, notice the tabs on the basepan. Remove tabs by cutting with a sharp tool as shown on page 2, Figure 2, and slide unit off of pallet.
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) and any other side requiring service access to meet National Electrical Code. Also, the unit location must be far enough away from any struc-

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**National Skills Academy for
Environmental Technologies**



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Trane Heating Manual Trane Company of Canada, ltd,1958 Trane Heating Manual J. F. O'Neill,Trane Canada,19??
Heat Pump Manual Arvo Lannus,1989 This manual is intended to serve as an authoritative and comprehensive guide on heat pump equipment and applications for utility energy management and consumer service personnel marketing specialists and corporate planners The information provided here is general in scope and is not intended to replace manufacturer technical performance data or installation operation and maintenance guidelines for specific products If the information provided conflicts with a manufacturer s instructions the manufacturer s instructions should be followed *Trane Systems Manual* Trane Company,1993 **Heat Pump Operation, Installation, Service** Randy F. Petit, Sr.,Turner L. Collins,Esco Institute,2011-05-01 This program is designed to provide students and technicians with a comprehensive overview of the heat pump system its operation and principles Heat Pumps Operation Installation and Service is designed to provide the reader with a comprehensive overview of heat pump systems The manual covers basic principles of operation system components air flow defrost methods balance point auxiliary electric heat electrical control wiring refrigerant piping installation refrigerant charging troubleshooting dual fuel systems and an introduction to geothermal systems The intent of the book is to offer students and technicians information to build upon in order to enhance their knowledge of the air conditioning and heating field and more specifically heat pumps Before installing or servicing a heat pump system the technician must have proper training and knowledge of air conditioning refrigeration theory principles and operation With today s energy demands and costs soaring there is a tremendous need for highly efficient equipment These systems pose new demands for installers and service technicians New heat pump systems with single dual and variable capacity are being sold which requires trained technicians with the ability to install service and maintain this equipment Trane Heating Manual H. N. Arkell,Trane Company of Canada, ltd,J. L. Neilans,1957 *Heat Pump Systems* Hank Rutkowski,1984 Heat Pump Installer Manual ,2010 **Heat Pump Manual** ,1997 *Trane* Trane Company,1927 *Design/data Manual for Closed-loop Ground-coupled Heat Pump Systems* J. E. Bose,Jerald D. Parker,Faye C. McQuiston,1985-01-01 Heat Pump Systems (non-refrigerant Circuits). National Skills Academy for Environmental Technologies,2012 **Heat Pump Systems (Non-refrigerant Circuits)**. National Skills Academy for Environmental Technologies,2012 **Ground Source Heat Pump Manual** Pennsylvania. Bureau of Water Quality Management,1996 *Residential Heat Pump Application Manual* Bernard Jackson,W. Douglas Geddes,Heating, Refrigerating and Air-Conditioning Institute of Canada. Heat Pump Application Course AD-HOC Committee,1980 **Heat Pump Training System** ,2007 *Heat Pump Training System* ,2007 *Heat Pump Service Manual* ,1977 *Industrial Heat Pump Manual* R. Gluckman,A. S. McMullan,I. L. Harry,Linhoff March, Inc,1988 **Heat Pump Technology** Billy C. Langley,2002 Designed as a text or a reference this book covers the practical fundamentals recommended service and startup procedures for heat pump systems The straightforward presentation and

thorough coverage regarding heat pump systems provides users with the knowledge and confidence necessary to properly install and service heat pump systems The reference explains all information needed to design install service and maintain heat pump systems including water source heat pump systems troubleshooting startup and standard service procedures and representative wiring diagrams For Service and Installation Technicians Service Managers Instructors and Designers

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