

## 1 Warnings, Cautions, and Notices

Read this manual thoroughly before operating or servicing this unit. Safety advisories appear throughout this manual as required. Your personal safety and the proper operation of this machine depend upon the strict observance of these precautions.

The three types of advisories are defined as follows:

- ⚠ WARNING** Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.
- ⚠ CAUTION** Indicates a potentially hazardous situation which, if not avoided, could result in minor or moderate injury. It could also be used to alert against unsafe practices.
- NOTICE** Indicates a situation that could result in equipment or property-damage only accidents.

### Important Environmental Concerns

Scientific research has shown that certain man-made chemicals can affect the earth's naturally occurring stratospheric ozone layer when released to the atmosphere. In particular, several of the identified chemicals that may affect the ozone layer are refrigerants that contain Chlorine, Fluorine and Carbon (CFCs) and those containing Hydrogen, Chlorine, Fluorine and Carbon (HCFCs). Not all refrigerants containing these compounds have the same potential impact to the environment. Trane advocates the responsible handling of all refrigerants.

### Important Responsible Refrigerant Practices

Trane believes that responsible refrigerant practices are important to the environment, our customers, and the air conditioning industry. All technicians who handle refrigerants must be certified according to local rules. For the USA, the Federal Clean Air Act (Section 608) sets forth the requirements for handling, reclaiming, recovering and recycling of certain refrigerants and the equipment that is used in these service procedures. In addition, some states or municipalities may have additional requirements that must also be adhered to for responsible management of refrigerants. Know the applicable laws and follow them.

**⚠ SAFETY WARNING**  
 Only qualified personnel should install and service the equipment. The installation, starting up, and servicing of heating, ventilating, and air-conditioning equipment can be hazardous and requires specific knowledge and training. Improperly installed, adjusted or altered equipment by an unqualified person could result in death or serious injury. When working on the equipment, observe all precautions in the literature and on the tags, stickers, and labels that are attached to the equipment.

## 2

**⚠ WARNING**  
**Proper Field Wiring and Grounding Required!**  
 Failure to follow code could result in death or serious injury. All field wiring MUST be performed by qualified personnel. Improperly installed and grounded field wiring poses FIRE and ELECTROCUTION hazards. To avoid these hazards, you MUST follow requirements for field wiring installation and grounding as described in NEC and your local/state/national electrical codes.

**⚠ WARNING**  
**Personal Protective Equipment (PPE) Required!**  
 Failure to wear proper PPE for the job being undertaken could result in death or serious injury. Technicians, in order to protect themselves from potential electrical, mechanical, and chemical hazards, MUST follow precautions in this manual and on the tags, stickers, and labels, as well as the instructions below:

- Before installing/servicing this unit, technicians MUST put on all PPE required for the work being undertaken (Examples; cut resistant gloves/sleeves, butyl gloves, safety glasses, hard hat/bump cap, fall protection, electrical PPE and arc flash clothing). ALWAYS refer to appropriate Safety Data Sheets (SDS) and OSHA guidelines for proper PPE.
- When working with or around hazardous chemicals, ALWAYS refer to the appropriate SDS and OSHA/GHS (Global Harmonized System of Classification and Labeling of Chemicals) guidelines for information on allowable personal exposure levels, proper respiratory protection and handling instructions.
- If there is a risk of energized electrical contact, arc, or flash, technicians MUST put on all PPE in accordance with OSHA, NFPA 70E, or other country-specific requirements for arc flash protection, PRIOR to servicing the unit. NEVER PERFORM ANY SWITCHING, DISCONNECTING, OR VOLTAGE TESTING WITHOUT PROPER ELECTRICAL PPE AND ARC FLASH CLOTHING. ENSURE ELECTRICAL METERS AND EQUIPMENT ARE PROPERLY RATED FOR INTENDED VOLTAGE.

## 3

**⚠ WARNING**  
**Follow EHS Policies!**  
 Failure to follow instructions below could result in death or serious injury.

- All Trane personnel must follow the company's Environmental, Health and Safety (EHS) policies when performing work such as hot work, electrical, fall protection, lockout/tagout, refrigerant handling, etc. Where local regulations are more stringent than these policies, those regulations supersede these policies.
- Non-Trane personnel should always follow local regulations.

**⚠ WARNING**  
**Cancer and Reproductive Harm!**  
 This product can expose you to chemicals including lead and bisphenol A (BPA), which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

**⚠ WARNING**  
**Capacitors Must be Allowed to Discharge!**  
 Failure to follow instructions below could result in death or serious injury. Each time power is removed, allow at least 20 minutes for DC units to discharge after power is disconnected before servicing. Use extreme caution when applying power. Equipment terminals and other internal parts of the controller are at line voltage when AC power is connected to the controller. All ungrounded conductors of the AC power line must be disconnected from the controller before it is safe to touch any internal parts of this equipment.

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## 4 General Information

**Important:** Start-up instructions are provided as a convenience. See the operation manual or contact Trane Rental Services with questions.

1. Determine if Condensate Pump or Gravity Fed Drain Line is to be used. Locate corresponding ports on machine and install blank off cap on line that won't be used.
  - a. If Condensate Pump is to be used install field supplied hose (need size) on the port exterior of the machine, route to exterior drain and turn the selector switch for the condensate pump to on (located inside the control cabinet).
  - b. If gravity fed drain is to be used, install field supplied hose and route to exterior drain.
2. Set Condensate Pump Switch to ON (see Figure 5).
3. Open and secure supply plenums and return duct doors. Connect supply and return flex duct (if needed) at their respective plenums.

Figure 1. Duct connectors



4. Wire incoming electrical power cable into cam-type pin connectors on the side of the unit.

## 5 Figure 2. Cam connectors



**Note:** Daisy chain output must remain locked when not in use.

Figure 3. Unit circuit breaker



5. Confirm that circuit breaker (7CB) is switched ON and CONTROL POWER pushbutton light (1PL) is lit. If not, check phase monitor relay (PMR) and emergency stop (ES) button. If INCORRECT POWER pushbutton light (2PL) is lit, check PMR for phase rotation and voltage setting.

## 6 Figure 4. Indicators



6. Turn ON Air Flow switch (1SW).
7. Turn NORMAL/QUIET switch (4SW) to require condenser fan operating mode. Condenser fan is operating in quiet mode.
  - NORMAL – Condenser fan is operating in normal mode.
  - QUIET – Condenser fan is operating in quiet mode.
 It is the customer's responsibility to always follow the written operating instructions of the unit and maintain safe work practices.

Figure 5. Condenser fan controls



8. Set condenser fan speed using corresponding SPD ADJ POT (potentiometer).

## 7 Figure 6. Thermostat (evaporator controls interface)



9. Cooling probe selection switch (3SW) / heating probe selection switch (7SW).
  - Turn 3SW to ENT – Cooling is based on entering air control.
  - Turn 3SW to LVG – Cooling is based on leaving air control.
  - Turn 7SW to ENT – Heating is based on entering air control.
  - Turn 7SW to LVG – Heating is based on leaving air control.
10. Turn OFF/CLG/HTG/DH switch (5SW) to require unit operating mode.
  - Turn 5SW to OFF – Unit is switched off.
  - Turn 5SW to CLG – Unit is running in cooling mode.
  - Turn 5SW to HTG – Unit is running in heating mode.
  - Turn 5SW to DH – Unit is running in dehumidification mode.
11. Turn OFF/LOCAL/HAND/REMOTE switch (2SW) to require compressor operating mode and/or switch (6SW) to require heater operating mode.
  - OFF – Switched off.
  - LOCAL – Operating with local controller.
  - HAND – Operating in manual mode without the controller (manual on).
  - REMOTE – Operating in remote mode without the controller (on/off by remote thermostat).

Contact Trane Rental Services for more information or technical support.

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