Start-Up Instructions

Trane Rental Services

ACSA

⚠ 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.

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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.

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⚠ 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.**

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⚠ 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

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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General Information

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

1. Connect 115V to unit shore power connection. This enables compressor crankcase heaters and power to the controls.

Note: *Shore power is redundant once 460 Vac power is applied to the unit.*

2. Connect fluid pipe/hose to the 6-inch grooved (Victaulic) supply and return water connections on chiller.

Note: *It is recommended to flush both the chiller and the system piping/hoses with clean water before making final connections.*

3. Connect fill hose to unit drain line.
4. Open unit drain valve and start filling the system with fluid.

Note: *Unit should have garden hose adapters installed on drain lines to allow easier filling of the loop.*

5. While filling the chiller with fluid, vent all air from the fluid loop at the highest point(s) in the system.

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Note: *There are three vent lines on this chiller. Two vents are located near the pump bypass tee opposite side from the chilled water connections, and a third vent near the evaporator.*

6. If using onboard pump, confirm VFD (opposite end of control panel) disconnect switch is in the **ON** position and switch is in the **DRIVE** position. Confirm pump bypass valves are closed and pump valves are open on integral chiller piping.

7. Install 460V cables between building or generator power source and chiller using cam-type connections and supply the unit with 460V, 3 phase power.

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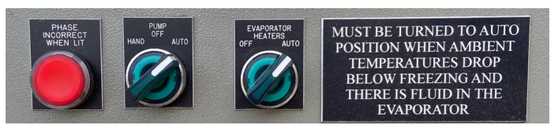
8. Close unit disconnect and confirm proper phasing with red phase light located below unit touch screen (phase indicator includes push-to-test functionality).
9. Rotate pump switch to **HAND** and evaporator heater switch to **AUTO**.

10. With pump running, use blue flow meter installed in chiller to measure flow rate (minimum 240 GPM, max 720 GPM). Adjust flow rate as required for application by using either the chilled water outlet gear valve or the pump VFD speed setting (refer to instructions near VFD panel).

11. Once flow has been established and flow rate confirmed, rotate pump switch from **HAND** to **AUTO**.

Note: *The pump will be controlled by chiller HOA switch whether the D/O/B/T switch is in* ***Drive*** *or* ***Bypass****. Auto mode will provide pump VFD Panel a start/run command based on chiller operating mode and/or chiller freeze protection requirements;* ***Hand*** *mode will provide pump VFD Panel a start/run command regardless of chiller operating mode.*



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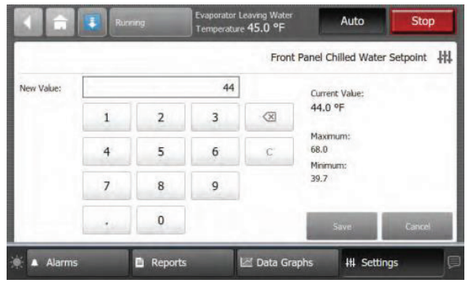
12. On the 7-inch touch screen, select **SETTINGS**. On the front panel, chilled water set point, change the **VALUE** to the desired leaving fluid temperature (default 44°F). Select **HOME**. Select **AUTO**. This should start the pump and then the chiller.



13. To turn machine off, select the **STOP** button on the 7-inch touch screen. Once the machine has fully stopped, switch disconnect to the **OFF** position.

Please call Trane Rental Services at 1-800-755-5115 for technical support.

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