Start-Up Instructions

Trane Rental Services – MTA (3 to 15 Tons)

⚠ 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.

⚠ 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.

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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.

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.**

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3

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1. Connect provided water hose to both inlet/outlet connections of the chiller. Confirm both shut off valves are open.

Figure 1. Provided 1-1/2" water hose with cam-lock "Dixon" style couplings

Figure 2. Inlet/outlet water connections

4

2. Connect the garden hose to drain on the rear of the chiller. Open drain valve and turn on water to start filling the chiller loop.

Figure 3. Drain/valve with garden hose connection

3. As the system is being filled, open vent valves to bleed air out.

Figure 4. Vent valves - vendor modified unit

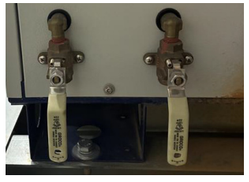

Figure 5. Vent valves - TRS modified unit

5

4. Once the system is purged of all air and has a steady stream of fluid coming out, close the vent valves.

   Use the pressure gauge on the rear panel of the unit to check that the pressure is approximately 20 PSI.

Figure 6. Unit mounted pressure gauge

5. Connect provided electrical cable.

Figure 7. Pin and sleeve cable (left)
Figure 8. Leviton Series pin and sleeve inlet (right)

6. Move disconnect and factory switches to the **On** position on the front control panel.

6

Figure 9. Front control panel

7. Confirm the unit power supply voltage is correct.

   If **ALc1** alarm is present on controller, phasing is incorrect. Please swap two phases at the source.
8. After the unit is powered, heaters should be energized for >8 hours prior to operating unit.
9. To start the unit perform the following procedure press the snowflake button on the controller. (pump should start)

Figure 10. Unit controller

10. If the **AEFL** alarm is present on the controller, chiller is in a low water flow or low water level fault. Please correct issue. Confirm integral bypass valve is closed.
11. Set desired chilled water setpoint; should be set to 44 degrees. If you need to change it, press the **SET** key for 3 seconds. The working setpoint **Set C** will appear in flashing mode. Use the up and down arrows to change.

7

Figure 11. Unit controller

12. To turn the unit off, best practice is to put the controller into standby and then turn the disconnect off.

Note: *If you need to lower setpoint below 44 degrees please reach out to TRS Tech Support.*

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Trane has a policy of continuous product and product data improvement and reserves the right to change design and specifications without notice. We are committed to using environmentally conscious print practices.

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