Start-Up Instructions

Trane Rental Services

Low Temp Air Handling (F1)

RSAL0030F1

⚠ 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

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.

⚠ 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 as a convenience. See the operation manual or contact Trane Rental Services with questions.*

1. Check the AHU components including fan bushing set crews, motor mount bolts, electrical wire, control panel handle, and coil for signs of damage. The long throw adapter or a fan guard should be in place at all times to block accidental contact with the fan blade.
2. Locate condensate drain outlet in the unit base rail.

Figure 1. Condensate drain

⚠ WARNING

Rotating Components!

Failure to follow instructions below could result in death or serious injury. Keep hands, clothing, and jewelry away from moving parts. Check the equipment for foreign objects before closing the doors and starting the equipment.

3. Identify the four 20-inch supply duct connections.
4. Connect flex duct to collars.

Figure 2. Duct connections

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Figure 3. Water connections

5. Locate the drain connections and connect with hoses to 2.5-inch Grooved Victolic inlet and outlet ports of the unit. Verify fittings are fitted and tightened appropriately.
6. The two timers on the left provide a delay between the VFD and soft start fan selection. The settings on these two timers should never be changed. Doing so may cause harm to the VFD or soft start. The third timer from the left controls the length of cooling cycle run time. The far right timer controls the length of the defrost cycle. See the IOM for further instructions on setting the defrost and cooling cycle durations.

Figure 4. Defrost timer

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7. Connect CAM-lock terminals into customer breaker.

Figure 5. Main power connections and circuit breaker

8. Turn **ON** power at job site breaker or disconnect (not shown).
9. Turn **ON** the disconnect switch.

Figure 6. Indicator lights, mode selection, and VFD switches

10. It is TRS recommendation to visually inspect the 3-way valve at the inlet on the coil header with a flashlight and confirm the valve is properly aligned. To do this the operator will initiate a defrost cycle and have the valve actuator open and close (F0) units.
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Figure 7. F1 valve

12. Keep closest vent to the coil open when filling with fluid to allow trapped air to escape. Close the vent valve once fluid flows out of the valve and check for water hammer in the coil.
13. When the system is operating, check the supply voltage. The voltage must be within +/- 10 percent of the voltage marked on the unit nameplate and the phase to phase unbalance should be 2 percent or less.
14. Check the room thermostat setting to confirm functionality.

Figure 8. Thermostat

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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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