



# Form

# Scroll Compressors

## **⚠ 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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**PART-ADF003A-EN**

**TRANE**  
TECHNOLOGIES™



# Introduction

Read this manual thoroughly before operating or servicing this unit.

## Warnings, Cautions, and Notices

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.

## ⚠ 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 Labelling 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.

**⚠ 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).

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## Revision History

This literature supersedes CG-ADF010\*-EN.



# Replacement Scroll Compressors

Complete and retain a record in the job file for future reference.

## Log Sheet for Installers

Job Name: \_\_\_\_\_

Job Address: \_\_\_\_\_

Equipment Model Number: \_\_\_\_\_

Equipment Serial Number: \_\_\_\_\_

Compressor Model Number: \_\_\_\_\_

Compressor Serial Number: \_\_\_\_\_

Startup Date: \_\_\_\_\_

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2764-0022-01-00

**Table 1. System operating data**

Refrigeration Data	Circuit 1	Circuit 2	Circuit 3	Circuit 4
Suction Pressure/ Saturation Temp				
Suction Line Temperature				
Suction Superheat (2-1)				
Discharge Pressure				
Discharge Line Temp				
Liquid Line Pressure/ Saturation Temp				
Liquid Line Temp				
Liquid Subcooling (6-7)				

**Table 2. Electrical data**

Unit Voltage	L1-L2	L2-L3	L1-L3

**Table 3. Compressor amperage**

Compressor	#1	#2	#3	#4	#5	#6	#7	#8
T1 AMPS								
T2 AMPS								
T3 AMPS								
Compressor Model 8 Digit Number								

**Table 4. Oil sight glass (when available)**

Compressor	#1	#2	#3	#4	#5	#6	#7	#8
Level								
Condition								
M = Manifold S = Single								
Compressor Model 8 Digit Number								

**Table 5. Condenser**

Type	Air Cooled	Water Cooled
Entering Temperature		
Leaving Temperature		
Ambient		Not Applicable
Number of Fans ON		Not Applicable
Clean (Yes, No)		

**Table 6. Evaporator**

Type	DX-Air	DX-Water
Entering Temperature		
Leaving Temperature		
CFM/GPM		
Clean (Yes, No)		
Chiller pressure drop	Not Applicable	

## Replacement Scroll Compressors

### 1. Systems Check

- ☐ Suction line filter drier installed \_\_\_\_\_  
Pressure drop after 1HR \_\_\_\_\_ PSIG after  
4HR \_\_\_\_\_
- ☐ Liquid Line Filter Changed \_\_\_\_\_
- ☐ Oil Changed
- ☐ Acid Check
- ☐ If system includes a liquid line solenoid does it open  
and close properly?

### 2. Operating Controls Check

- ☐ Low Pressure Control
- ☐ High Pressure Control
- ☐ Contactor \_\_\_\_\_ Replaced \_\_\_\_\_  
Checked \_\_\_\_\_
- ☐ Temperature Controls Cycles Unit Properly?

#### Observations:

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Service Technician:

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Date:

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## Notes

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