

# Installation Instructions

## Gas Heater Conversion

Model Number:  
GCC210A\*E (H, Z)

### 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.

December 2022

ACC-SVN268A-EN

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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-including industry replacements for CFCs such as HCFCs and HFCs.

#### 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.

### 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.

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#### General Information

**Important:** Conversion should be made prior to installation of equipment at job site.

If the unit is installed in a horizontal configuration, the factory-installed gas orifice spuds, air orifice plate, and TCO1 limit must be replaced with the gas orifice spuds, air orifice plate, and TCO1 limit for horizontal applications shipped in the heater compartment. See Figure 7 for TCO1 installation location and Figure 6 for the location for these ship-with parts.

#### Inspection

1. Unpack all components of the kit.
2. Check carefully for any shipping damage. If any damage is found it must be reported immediately and a claim made against the transportation company.

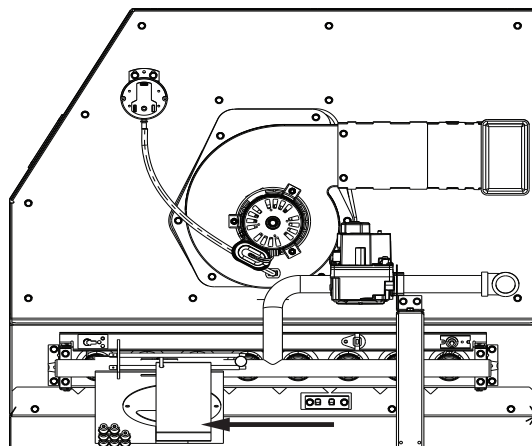
### 4 Table 1. Parts list

Qty	Description
8	Drill Size 0.125-in. Orifice Spuds
1	0.158-in. Air Orifice Plate, Part No. 438718370008
1	Label - Supplement Heating Data - English
1	Label - Supplement Heating Data - French

#### Installation

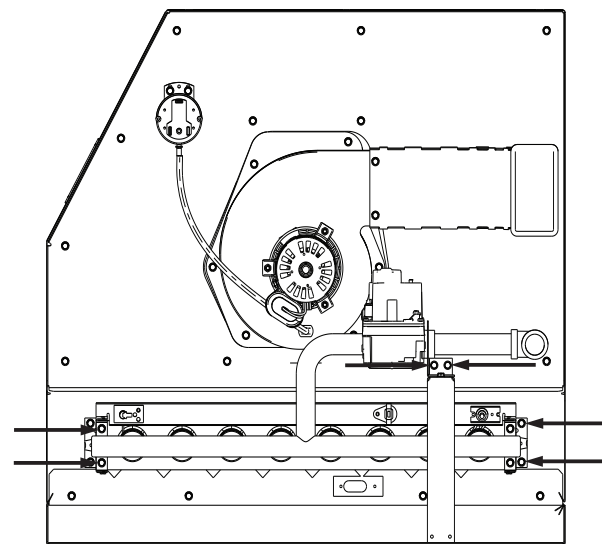
1. Remove the gas heat section access panel.
2. Remove ship-with parts attached to the gas manifold vertical leg. See Figure 1.

Figure 1. Gas orifice spuds, air orifice, supplement heating data label shipping location



### 5 3. Remove six screws from manifold bracket. See Figure 2.

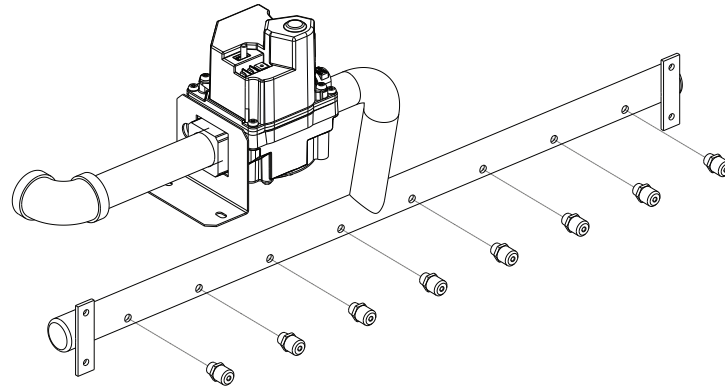
Figure 2. Remove screws from manifold bracket



4. Remove the natural gas orifice spuds from the manifold. See Figure 3.
5. Install the ship-with, natural gas orifice spuds. Engage threads of manifold and tighten orifice three- and one-half turns.

**Note:** Do not overtorque gas orifice spuds.

### 6 Figure 3. Remove orifice spuds



6. Disconnect the inducer motor wiring harness.
7. Remove six screws securing the inducer blower assembly. See Figure 4 and Figure 5.
8. Remove three screws securing the air orifice plate. See Figure 4.
9. Using three screws, install the ship-with, air orifice plate.

### 7 Figure 4. Remove screws from inducer blower assembly and air orifice plate

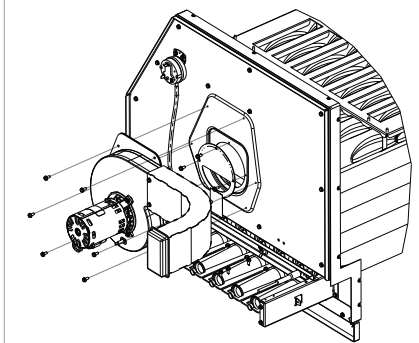
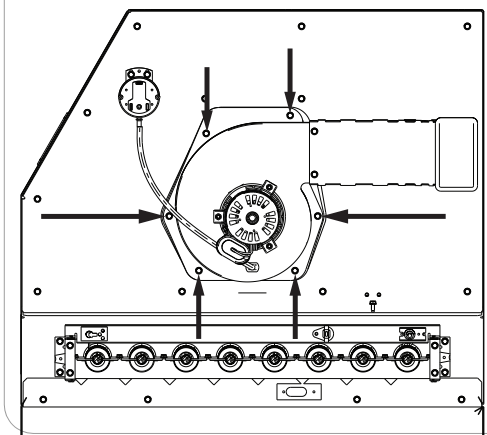


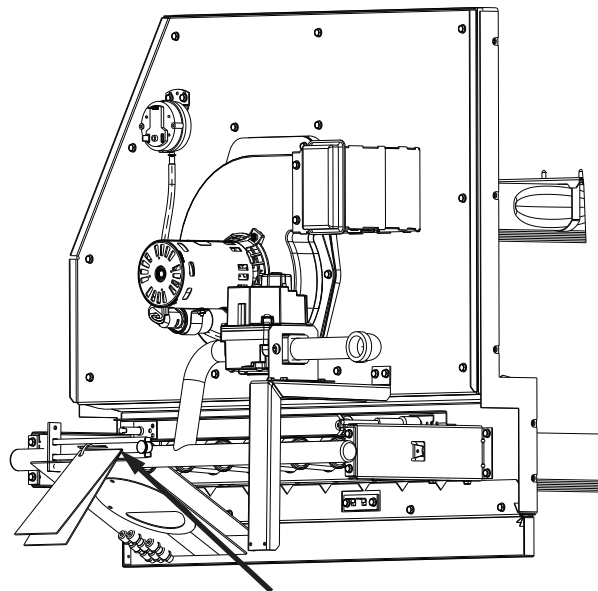
Figure 5. Remove screws from inducer blower assembly



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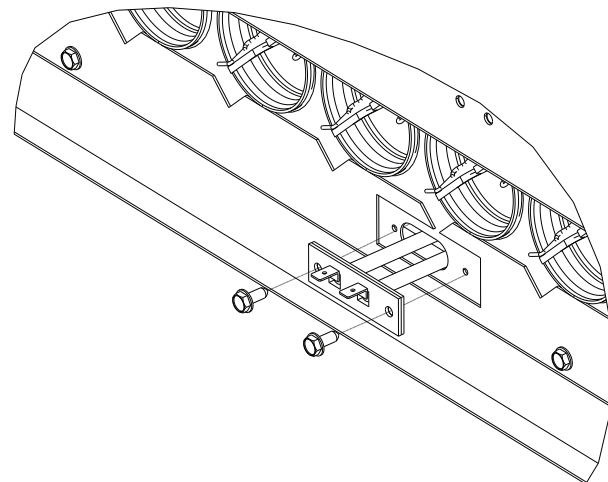
10. Install the inducer blower assembly using six screws. Confirm exhaust screen (Figure 5) is positioned properly in the center ID post.
11. Connect the inducer blower wire harness.
12. Install the manifold bracket using six screws.
13. Remove the TCO1 limit attached to the gas manifold vertical leg. See Figure 6.
14. Remove and discard the factory-installed, downflow TCO1 limit.
15. Install the ship-with TCO1 limit for horizontal operation. See Figure 7.
16. Reinstall the gas heat access panel.

Figure 6. TCO1 limit ship-with location



9

Figure 7. TCO1 limit factory-installed location



17. Once the conversion is complete, scratch off the ink square (to the right-hand side of). **SCRATCH INK OFF SQUARE WHEN USING SUPPLEMENTAL HEATING DATA** on both English and French nameplate.
18. Paste the ship-with supplemental heating data label over the existing heating data on both English and French nameplate. See Figure 8.

10

Figure 8. Location for pasting supplemental heating data label

TRANE CLARKSVILLE, TN 37040-1000 GAS-FIRED LISTED COOLING PORTION OF HEATING AND COOLING UNIT. GAS HEATING PORTION CLASSIFIED BY UL IN ACCORDANCE WITH AN SI Z21.47-2016 / CSA 2.3-2016.			
FORCED AIR FURNACE WITH COOLING UNIT. FOR OUTDOOR INSTALLATION ONLY THIS UNIT COMPLIES WITH THE ENERGY EFFICIENCY RATINGS OF ASHRAE 90.1			
MODEL NO.	Click here to enter text.		
SERIAL NO.	Click here to enter text.		
DATE OF MFG.	Click here to enter text.		
ELECTRICAL DATA			
ELECTRICAL RATING	Click here	OPERATING VOLT. RANGE	Click here
CONTROL CIRCUIT VOLTS	24 VAC	MIN. CIRCUIT AMPACITY	Click here to enter text.
MAX. OVERCURRENT PROT.	Click here	COMPR#1	Click here to enter text.
		COMPR#2	Click here to enter text.
		FAN(S)	Click here to enter text.
		COND.	Click here to enter text.
		EVAP. STD	Click here to enter text.
		EVAP. O/S	Click here to enter text.
SCRATCH INK OFF SQUARE WHEN OVERSIZE MOTOR IS INSTALLED			
COOLING DATA			
Click here FACTORY CHARGED	MIN TEST PRESSURE		
CIRCUIT#1- Click here to enter text.	HIGH - Click here to enter text.		
CIRCUIT#2- Click here to enter text.	LOW - Click here to enter text.		
HEATING DATA - UNIT EQUIPPED FOR NATURAL GAS			
RATED HEATING INPUT	380000 BTUH (111 KW)		
HEATING OUTPUT	307800 BTUH (90 KW)		
MIN HEATING INPUT	265000 BTUH (78 KW)		
TEMP RISE	20-50 DEG F (11-28 DEG C)		
MAX OUTLET AIR TEMP.	155 DEG F (68 DEG C)		
MAX EXT STATIC PRESS.	1.5 IN. W.C. (373.33 PA)		
MAX GAS SUPPLY PRESS.	14 IN. W.C. (3487 PA)		
MIN GAS SUPPLY PRESS. FOR INPUT ADJ	4.5 IN. W.C. (1120 PA)		
MIN AMBIENT TEMP.	-40 DEG F (-40 DEG C)		
FACTORY EQUIPPED FOR USE AT ALTITUDES	OF UP TO 2000 FT. (610 M)		
Click here to enter text.	Click here to enter text.		
MANIFOLD PRESS.	3.5 IN. W.C. (871.8 PA)		
ORIFICE DRILL SIZE	0.126 IN. (3.2 MM)		
SCRATCH INK OFF SQUARE WHEN USING SUPPLEMENTAL HEATING DATA			
FOR INSTALLATION ON COMBUSTIBLE FLOORING OR A,B,C ROOF COVERING MATERIAL. CLEARANCES TO COMBUSTIBLE MATERIAL: TOP-NO OBSTRUCTIONS; L-SIDE-24IN. (610 MM); R. SIDE-24IN. (610 MM); FRONT-24IN. (610 MM); BACK-18IN. (457 MM)			
THIS UNIT SHOULD BE INSTALLED AND REGULARLY MAINTAINED IN ACCORDANCE WITH THE SERVICE LITERATURE MANUAL(S).			
43872461 Rev D		ASSEMBLED IN MEXICO	

Paste supplemental heating data label over the dotted area

TRANE CLARKSVILLE, TN 37040-1000 CIRCULATION FORCEE AVEC. UNITE DE REFRIGERATION POUR INSTALLATION A L'EXTERIEUR SEULEMENT.		GAS-FIRED LISTED COOLING PORTION OF HEATING AND COOLING UNIT. GAS HEATING PORTION CLASSIFIED BY UL IN ACCORDANCE WITH AN SI Z21.47-2016 / CSA 2.3-2016.		UNITE DE REFRIGERATION ET CHAUFFAGE COMBINE.	
CETTE UNITE EST CONFORME AUX CLASSEMENTS D'EFFICACITE ENERGETIQUE DE L'ASHRAE 90.1					
NO. DU MODELE	Click here to enter text.				
NO. DU SERIE	Click here to enter text.				
DATE DE FAB	Click here to enter text.				
CARACTERISTIQUES ELECTRIQUES					
TENSION NOMINALE	Click here	TENSION DE FONCT.	Click here		
TENSION DU CIRC. DE COMM	24 VAC	AMP MIN DU CIRC.	Click here		
COMPR#1	Click here	COMPR#2	Click here		
VENTL	Click here	COND.	Click here		
EVAP. STD	Click here	EVAP. SURDIM	Click here		
GRATTER L'ENCRE A L'INTERIEUR DU CARDE SI LE MOTEUR SURDIMEST IN STALLE					
MODE FROID					
Click here UNITE CHARGEE EN	PRESSION MIN D'ESSAI				
CIRCUIT#1- Click here to enter text.	HAUTE - Click here to enter text.				
CIRCUIT#2- Click here to enter text.	BASSE - Click here to enter text.				
MODE CHAUD-POUR GAZ NATUREL					
PUISSANCE CALORIFIQUE	Click here to enter text.				
PUISSANCE EFFECTIVE	Click here to enter text.				
ELEV. DE TEMP.	Click here to enter text.				
TEMP. MAX DE SORTIE D'AIR	Click here to enter text.				
P. S. EXT MAX	Click here to enter text.				
PRESS. MAX DE SERV DU GAZ	14 IN. W.C. (3487 PA)				
PRESS. MIN D'ALIM	4.5 IN. W.C. (1120 PA)				
TEMP. AMBIENT MIN	-40 DEG F (-40 DEG C)				
USINE EQUIPEE POUR UNE UTILISATION A	UNE ALTITUDE DE 2000 PI. (610 M)				
Click here to enter text.	Click here to enter text.				
PRESS AU COLLECTEUR	Click here to enter text.				
ORIF. DE CALIB.	Click here to enter text.				
GRATTER L'ENCRE A L'INTERIEUR DU CARDE SI VOUS UTILISEZ DES DONNEES DE CHAUFFAGE SUPPLEMENTAIRE					
POUR INSTALLATION SUR SOL COMBUSTIBLE OU MATERIAU DE TOITURE DE CLASSE A,B OU C.					
ESPACE REQUIS DEGAG. COMBUSTIBLE: DESSUS - PAS D'OBSTRUCTIONS; COTE GAUCHE - 24IN. (610 MM); COTE DROIT - 24IN. (610 MM); AVANTE - 24IN. (610 MM); ARRIERE - 18IN. (457 MM)					
CETTE UNITE DOIT ETRE INSTALLEE ET ENTRETEENUE REGULIEREMENT SURVANT LES RECOMMANDATIONS DU GUIDE D'ENTRETIEN					
43872462 Rev C		ASSEMBLED IN MEXICO			

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

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(NEW)

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