



## Installation Instructions

# Supply-Air Retrofit

GEHG (0.5 to 5 Tons) / EXHG / DXHG

### 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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WSHP-SVN07B-EN

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TECHNOLOGIES

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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.

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## Revision History

Added new retrofit instructions.

## General

### ⚠ WARNING

#### Hazardous Voltage!

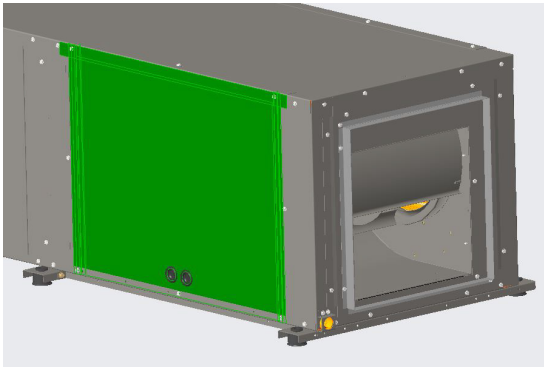
Failure to disconnect power before servicing could result in death or serious injury. Disconnect all electric power, including remote disconnects before servicing. Follow proper lockout/tagout procedures to ensure the power can not be inadvertently energized. Verify that no power is present with a voltmeter.

### Retrofit Instructions from Back Supply-Air to Right/Left Supply-Air

**Note:** All fasteners will need to be retained and reused.

1. Remove the right air-side access door. Remove the two scab plates to the left and right side of the unit opening where the access door was located (three fasteners each). Remove the right-angle plate at the top of the unit opening where the access door was located (three fasteners total). The right-angle plate will be reused, but the two scab plates can be discarded. Refer to [Figure 1, p. 2](#).

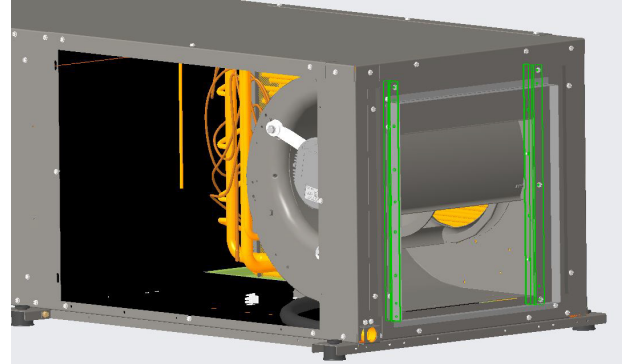
**Figure 1. Back to right supply**



**Note:** The F and G cabinets will only need one scab plate removed and discarded. This is the scab plate closest to the rear of the unit. See [Table 1, p. 3](#).

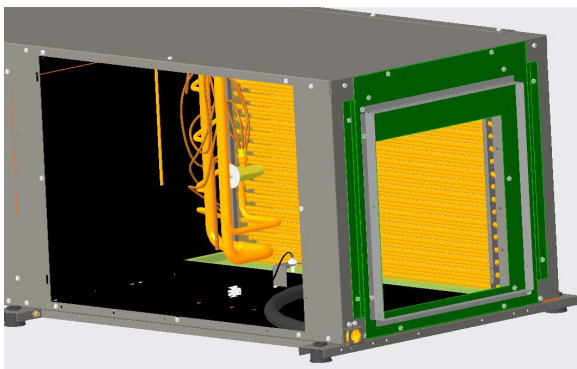
2. Disconnect the blower motor via the pin connection harness inside the air-side section.
3. While supporting the blower housing (removing the blower motor first would lighten the blower housing load if needed), remove the six fasteners (three each side) from the rear-outside of the blower panel. Set the blower housing aside until a later step.

**Figure 2. Blower housing**



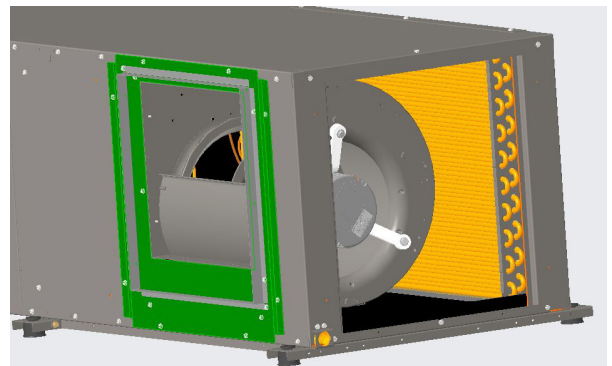
4. Remove the blower panel on the rear of the unit by removing the eight fasteners (two on each side). Remove the four duct collar flanges on this panel and set aside for later use. This blower panel can be discarded after removal.

**Figure 3. Blower panel**



5. The replacement blower panel can now be fastened in the access hole created in [Step 1](#). The blower housing can now be fastened to this replacement blower panel. For easy serviceability to the blower motor, the housing may have to be rotated 180° before fastening (the blower motor should be facing the rear of the unit). Fasten the four duct collar flanges on the replacement blower panel. See [Figure 4, p. 2](#).

**Figure 4. Blower motor**



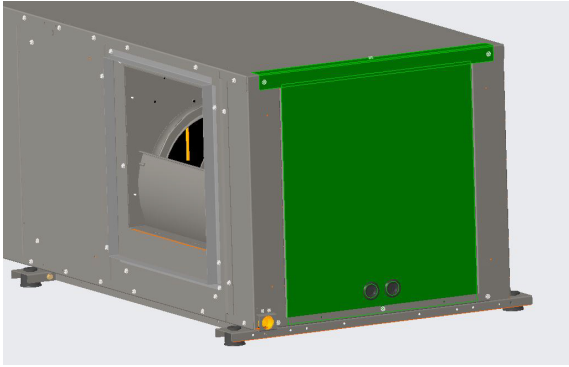
6. The right-angle plate can be attached to the top of the doorway in the rear access hole created from [Step 4](#), and the access door can now be inserted and secured.

## Retrofit Instructions from Right/Left Supply-Air to Back Supply-Air

**Note:** All fasteners will need to be retained and reused.

1. Remove the back air-side access door. Remove the right-angle plate at the top of the unit opening where the access door was located (three fasteners total). The right-angle plate will need to be set aside for use in a later step.

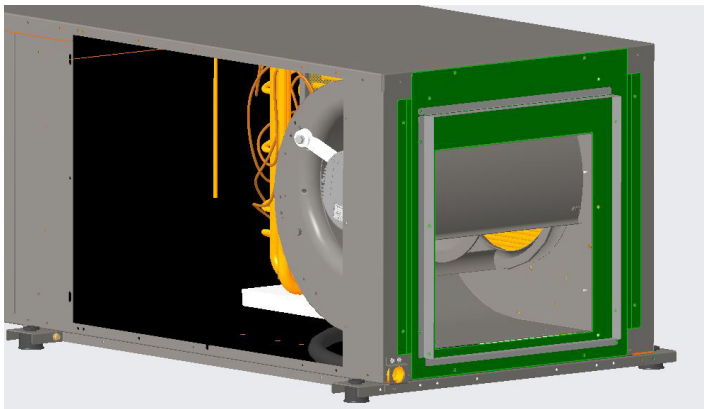
**Figure 5. Right to back supply**



2. Disconnect the blower motor via the pin connection harness inside the air-side section.
3. While supporting the blower housing (removing the blower motor first would lighten the blower housing load if needed), remove the six fasteners (three each side) from the outside of the blower panel. Set the blower housing aside until a later step. See [Figure 6, p. 3](#).

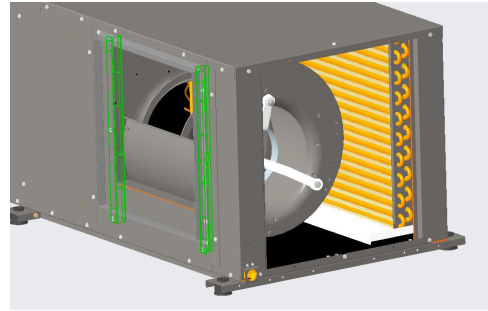
5. The replacement blower panel can now be fastened in the access hole created in [Step 1](#). The blower housing can now be fastened to this replacement blower panel. For easy serviceability to the blower motor, the housing may have to be rotated 180° before fastening (the blower motor should be facing the opposite side of the air coil). Fasten the four duct collar flanges on the replacement blower panel.

**Figure 8. Blower motor**



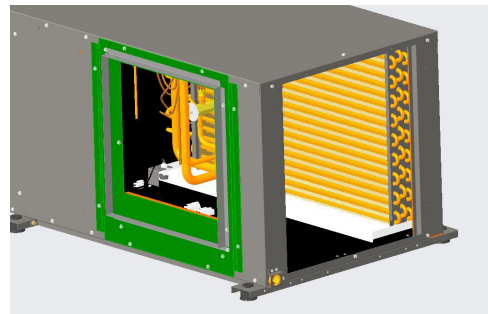
6. Install the two scab plates on either side of the access hole created in [Step 4](#). Install the right-angle plate at the top of the opening that was set aside in an earlier step. See [Figure 9, p. 3](#).

**Figure 6. Blower housing**

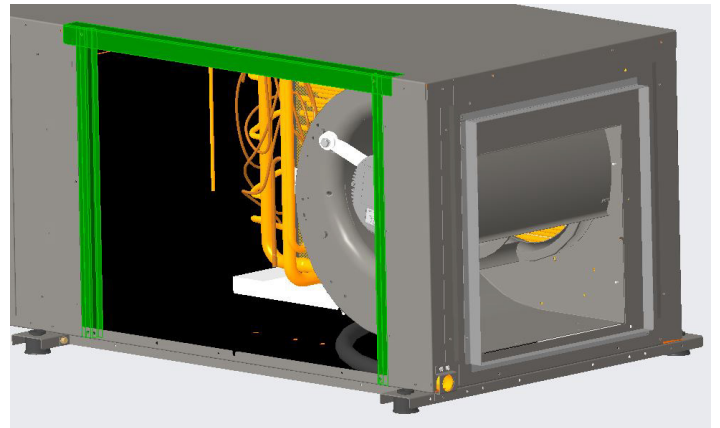


4. Remove the blower panel by removing the eight fasteners (two on each side). Remove the four duct collar flanges on this panel and set aside for later use. This blower panel can be discarded after removal.

**Figure 7. Blower panel**



**Figure 9. Scab plate installation**



**Note:** The F and G cabinets will only need one scab plate installed. This is the scab plate closest to the rear of the unit. See [Table 1, p. 3](#).

7. The access door can now be inserted and secured.

**Table 1. Horizontal cabinet size identification**

CAB ID	GEHG	EXHG	DXHG
A	006, 009, 012	-	-
B	015, 018	009, 012	-
C	024, 030	015	-
D	036, 042	018, 024	024
E	048, 060	030, 036	036
F	-	042, 048	048
G	-	060, 070	060, 070

**Table 2. Back-to-Side retrofit (fiberglass insulation)**

Part Number	Description
WSHPPND00024	UASSY; BLR CONV BK to L/R FG CAB-A
WSHPPND00028	UASSY; BLR CONV BK to L/R FG CAB-B
WSHPPND00032	UASSY; BLR CONV BK to L/R FG CAB-C
WSHPPND00036	UASSY; BLR CONV BK to L/R FG CAB-D
WSHPPND00040	UASSY; BLR CONV BK to L/R FG CAB-E
WSHPPND00044	UASSY; BLR CONV BK to L/R FG CAB-F
WSHPPND00048	UASSY; BLR CONV BK to L/R FG CAB-G

**Table 3. Side-to-Back retrofit (fiberglass insulation)**

Part Number	Description
WSHPPND00025	UASSY; BLR CONV L/R to BK FG CAB-A
WSHPPND00029	UASSY; BLR CONV L/R to BK FG CAB-B
WSHPPND00033	UASSY; BLR CONV L/R to BK FG CAB-C
WSHPPND00037	UASSY; BLR CONV L/R to BK FG CAB-D
WSHPPND00041	UASSY; BLR CONV L/R to BK FG CAB-E
WSHPPND00045	UASSY; BLR CONV L/R to BK FG CAB-F
WSHPPND00049	UASSY; BLR CONV L/R to BK FG CAB-G

**Table 4. Back-to-Side retrofit (foilface insulation)**

Part Number	Description
WSHPPND00026	UASSY; BLR CONV BK to L/R FF CAB-A
WSHPPND00030	UASSY; BLR CONV BK to L/R FF CAB-B
WSHPPND00034	UASSY; BLR CONV BK to L/R FF CAB-C
WSHPPND00038	UASSY; BLR CONV BK to L/R FF CAB-D

**Table 4. Back-to-Side retrofit (foilface insulation) (continued)**

Part Number	Description
WSHPPND00042	UASSY; BLR CONV BK to L/R FF CAB-E
WSHPPND00046	UASSY; BLR CONV BK to L/R FF CAB-F
WSHPPND00050	UASSY; BLR CONV BK to L/R FF CAB-G

**Table 5. Side-to-Back retrofit (foilface insulation)**

Part Number	Description
WSHPPND00027	UASSY; BLR CONV L/R to BK FF CAB-A
WSHPPND00031	UASSY; BLR CONV L/R to BK FF CAB-B
WSHPPND00035	UASSY; BLR CONV L/R to BK FF CAB-C
WSHPPND00039	UASSY; BLR CONV L/R to BK FF CAB-D
WSHPPND00043	UASSY; BLR CONV L/R to BK FF CAB-E
WSHPPND00047	UASSY; BLR CONV L/R to BK FF CAB-F
WSHPPND00051	UASSY; BLR CONV L/R to BK FF CAB-G

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