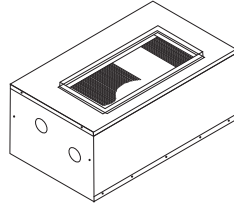


# Installation Instructions

## Heating Coil Enclosure



Model Numbers:	Used With:
BAYWATRO22A	TWE051/060
BAYWATRO23A	TWE072/076/090
BAYWATRO24A	TWE101/120
BAYWATRO25A	TWE126/150/156/180
BAYWATRO26A	TWE201/240/251/300
BAYWATRO27A	TWE051/060
BAYWATRO28A	TWE072/076/090
BAYWATRO29A	TWE101/120
BAYWATRO30A	TWE126/150/156/180
BAYWATRO31A	TWE201/240/251/300

### 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

### 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. 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 electrical codes.

### WARNING

#### Personal Protective Equipment Required!

Installing/servicing this unit could result in exposure to electrical, mechanical and chemical hazards. Before installing/servicing this unit, technicians MUST put on all Personal Protective Equipment (PPE) recommended for the work being undertaken. ALWAYS refer to appropriate SDS sheets and OSHA guidelines for proper PPE. When working with or around hazardous chemicals, ALWAYS refer to the appropriate SDS sheets and OSHA guidelines for information on allowable personal exposure levels, proper respiratory protection and handling recommendations. If there is a risk of arc or flash, technicians MUST put on all necessary Personal Protective Equipment (PPE) in accordance with NFPA70E for arc/flash protection PRIOR to servicing the unit. Failure to follow recommendations could result in death or serious injury.

#### Heavy Object!

Failure to follow these instructions could result in death, serious injury, and property damage.

Make certain that the lifting methods used to lift the duct furnace are capable of supporting the weight of the heater during installation. Ensure that all hardware used in the suspension of each duct furnace is more than adequate for the job. Make certain that the structure to which the duct furnace is to be mounted is capable of safely supporting its weight. Under no circumstances must the gas lines, venting system, or the electrical conduit be used to support the duct furnace. Do not allow objects (i.e. ladder) or people to lean against the gas lines, venting system, or electrical conduit for support.

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## General

The steam or water enclosure assembly referred to in this installer's guide must be installed with the steam/water connection panel on the same side as the unit control box (the left side of the unit). Refer to Table 1 to determine which steam or water coil is to be used with a particular unit.

Table 1. Heating coil models

Unit	Water Coil	Steam Coil
TWE051/060	BAYWATRO27A	BAYWATRO22A
TWE072/076/090	BAYWATRO28A	BAYWATRO23A
TWE101/120	BAYWATRO29A	BAYWATRO24A
TWE126/150/156/180	BAYWATRO30A	BAYWATRO25A
TWE201/240/251/300	BAYWATRO31A	BAYWATRO26A

## Inspection

Remove the steam or water coil, gasket and screws from the shipping package and inspect for damage. Report any damage immediately to the transportation company and make any appropriate claims.

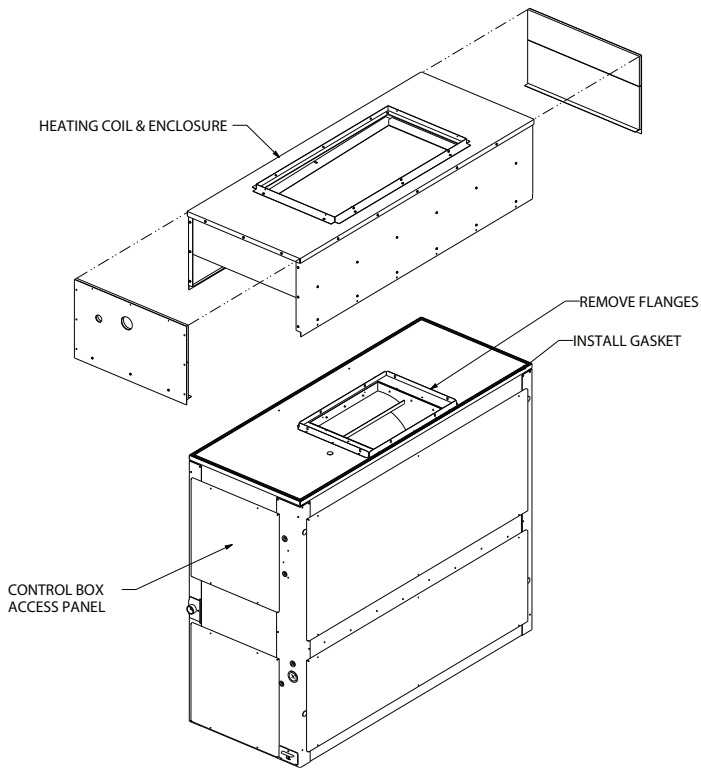
## Installation

**Note:** BAYWATR kits must be independently supported in the horizontal application in addition to the unit supports.

1. Remove the duct flanges from the top of the air handler. See Figure 1.
2. Install gasket (provided) on the top of the air handler (entire perimeter of unit), as shown in Figure 1.

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**Figure 1. Heating coil assembly**



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3. Remove the end panels from the coil. See [Figure 1](#).
4. Place the coil on top of the air handler with front and back flanges overlapping outside edge of the air handler and secure with self drilling screws (provided). Install the self drilling screws horizontally in the holes located in the water coil flanges in the front and back of unit and vertically in the water coil angles that were exposed when the end panels were removed.
5. Re-install the end panels on the coil and secure with the screws that were removed.

**NOTICE**

**Equipment Damage!**

If the installation instructions are not followed, premature coil failure may result.

**Note:** In the design and construction of this coil, provision has been made to prevent strain due to expansion and contraction of various coil parts.

**Installation Steam Hook Up (parts to be field supplied)**

1. Locate steam trap discharge at least 12 inches below the condensate connection. Do not bush or reduce coil return size. Run return pipe full size of steam trap connection. Trap each coil separately.
2. Install 1/2"-15" swing check vacuum breaker in unused condensate connection as close as possible to coil.
3. Do not drain steam mains or takeoffs through coils.
4. Provide for drainage and locate supply valves so condensate cannot build up behind them when closed.
5. Support all piping independently of coils.
6. Provide swing joints or flexible fittings in piping adjacent to coil connections to avoid piping stress.
7. Isolate coil from excessive vibration.
8. Do not modulate systems with overhead returns unless a suitable condensate pump is used.
9. Turn on steam full at start up for at least 10 minutes.

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10. For other installation recommendations and instructions for maintaining coil efficiency, refer to installation and maintenance manual COIL-SVX01\*-EN (available through e-library or by contacting a local dealer).

**Installation Water Hook Up (parts to be field supplied)**

1. Support all piping independently of coils
2. Provide swing joints or flexible fittings in piping adjacent to coil connections to avoid piping stress.
3. Isolate coil from excessive vibration.
4. A manual or automatic vent valve should be installed for release of trapped air.
5. For other installation recommendations and instructions for maintaining coil efficiency, refer to installation and maintenance manual COIL-SVX01\*-EN (available through e-library or by contacting a local dealer).

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