Installer's Guide

TEM Replacement Coils

Includes *coil models*
COL19274-19276
Black epoxy coil models
COL19277-19279

ALL phases of this installation must comply with NATIONAL, STATE AND LOCAL CODES

IMPORTANT — This Document is customer property and is to remain with this unit. Please return to service information pack upon completion of work.

These instructions do not cover all variations in systems nor provide for every possible contingency to be met in connection with the installation. Should further information be desired or should particular problems arise which are not covered sufficiently for the purchaser's purposes, the matter should be referred to your installing dealer or local distributor.

Section 1. Safety

⚠ WARNING

This information is intended for use by individuals possessing adequate backgrounds of electrical and mechanical experience. Any attempt to repair a central air conditioning product may result in personal injury and/or property damage. The manufacture or seller cannot be responsible for the interpretation of this information, nor can it assume any liability in connection with its use.

⚠ WARNING

WARNING (Medium/high pressure)
Contains Refrigerant!
System contains oil and refrigerant under high pressure. Recover refrigerant to relieve pressure before opening the system. See unit nameplate for refrigerant type. Do not use non-approved refrigerants, refrigerant substitutes, or refrigerant additives.
Failure to follow proper procedures or the use of non-approved refrigerants, substitutes, or refrigerant additives could result in death, serious injury, or equipment damage.

⚠ WARNING

LIVE ELECTRICAL COMPONENTS!
During installation, testing, servicing, and troubleshooting of this product, it may be necessary to work with live electrical components. Failure to follow all electrical safety precautions when exposed to live electrical components could result in death or serious injury.

⚠ CAUTION

Extreme caution should be exercised when opening the Liquid Line Service Valve. Turn counterclockwise until the valve stem just touches the rolled edge. No torque is required.

⚠ CAUTION

SAFETY HAZARD
Sharp Edge Hazard. Be careful of sharp edges on equipment or any cuts made on sheet metal while installing or servicing. Personal injury may result.

⚠ CAUTION

Coil is pressurized.

- **Coil is pressurized with approximately 8-12 psi dry air and factory checked for leaks.**
- **Carefully release the pressure by removing the rubber plug on the liquid line.**
- **If no pressure is released, check for leaks.**

Section 2. General Information

Carefully unpack the coil and inspect the contents for damage. If any damage is found at the time of delivery, proper notification and claims should be made with the carrier.

Replacement Coil	Air Handler Model
Standard Coils	
COL19274	TEM3A0B18-36, TEM4A0B18-30
COL19275	TEM3A0C42-48, TEM4A0C36-48
COL19276	TEM3A0C60, TEM4A0C60
Black Epoxy Coils	
COL19277	TEM3A0B18-36, TEM4A0B18-30
COL19278	TEM3A0C42-48, TEM4A0C36-48
COL19279	TEM3A0C60, TEM4A0C60

Section 3. Overview and Common Steps

These instructions are designed for installing a replacement coil into a previously installed air handler.

The air handler may be installed in one of the following orientations: upflow, downflow, horizontal left or horizontal right.

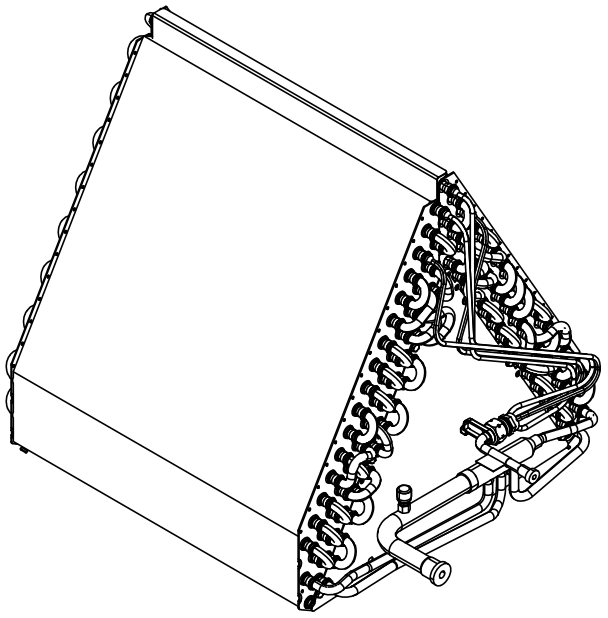
Actual air handler units and coil configurations may differ from models depicted.

3.1 Common Preparation Steps

1. Pump down or recover the refrigerant in the system.
2. Turn off high voltage power to the unit.
3. Remove the condensate drain lines from the indoor coil. Be prepared to catch any water that might be in the drain line and drain pan.
4. Disconnect the refrigerant lines to the indoor coil. Be sure to protect the refrigerant lines so debris does not enter the piping system.
5. Remove the air handler's front panels. Retain all screws to reinstall panels in a later step.

"A" coils

Standard coil - TXV



Note: *Each document pack contains O-rings, cable ties, and insulation.*

Figure 1

Section 4. Upflow, Downflow, Horizontal Coil Installation

4.1 Removal of coil and disassembly

1. Remove the center horizontal brace that secures to the two side panels (See Figure 2).
   Note: Step not required for downflow coil replacements.
   Note: Horizontal applications may require support under the unit to prevent sagging.
2. Remove the two coil retaining brackets located in front of the upflow drain pan.
   Note: Step is optional for downflow coil replacements.

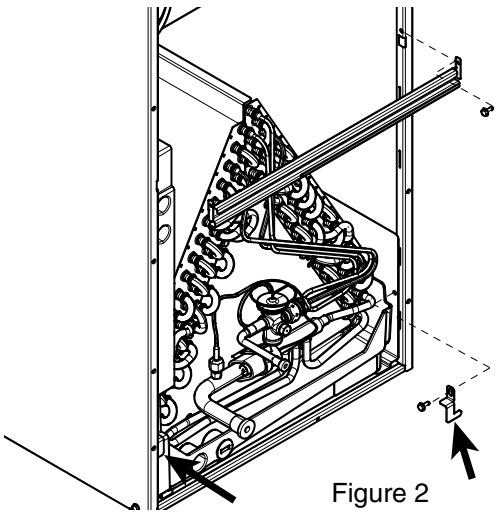


Figure 2

3. Remove coil assembly from the air handler by sliding assembly forward (See Figure 3).
4. Remove and retain horizontal drain pan to reinstall later.

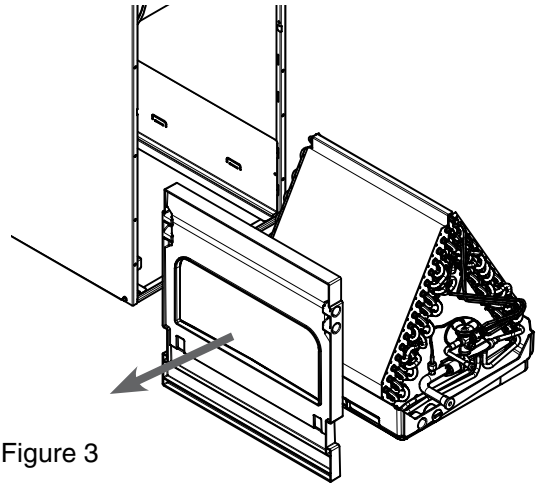
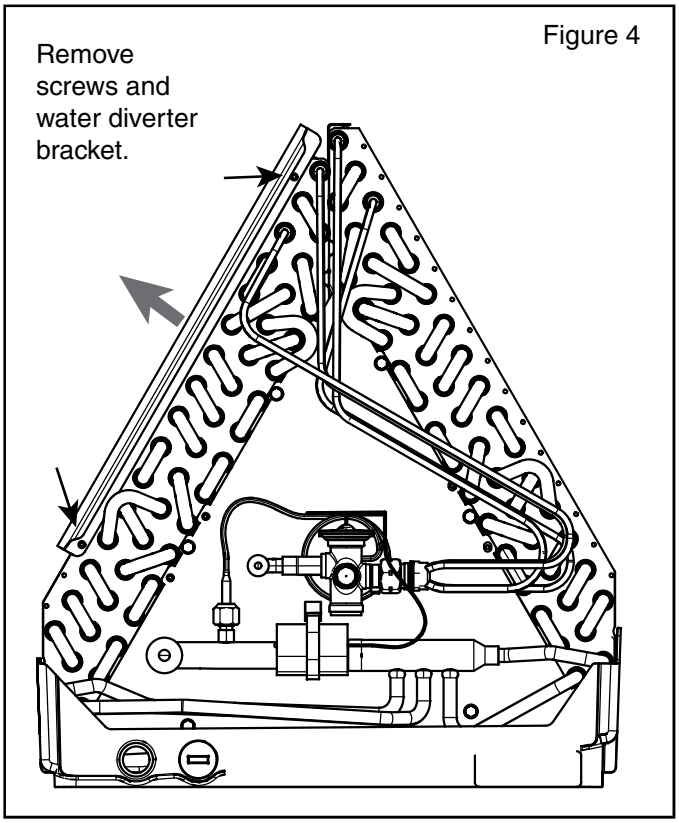


Figure 3

5. Remove screws from water diverter bracket. Make note of diverter position on the tube sheet (See Figure 4).
   Note: Diverter location and number of screws varies by coil model.
   Note: Exact replacement is required.
6. Loosen and remove TXV external equalizer fitting.
7. Remove TXV sensing bulb.
8. Loosen and remove TXV outlet fitting from distributor assembly. Be sure to protect the TXV assembly set so debris does not enter. Retain to reinstall later.
9. Remove the 4 screws that attach the coil assembly to the upflow drain pan. Retain to reinstall later.

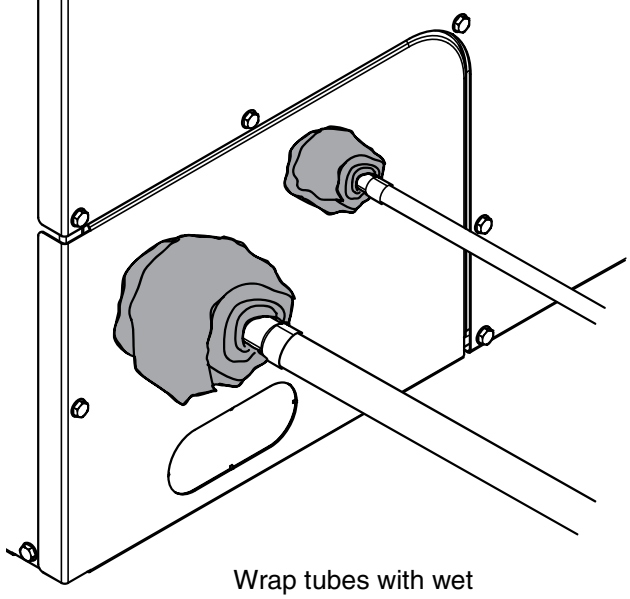
Figure 4



4.2 Reassembly of replacement coil

1. Remove replacement coil from packaging.
2. Using back-up wrench, remove mechanical fitting from distributor. Remove rubber plug from suction line.
3. Install replacement coil onto the upflow drain pan and secure with the 4 screws remove earlier.
4. Remove existing o-ring from the outlet of the TXV and replace with the new o-ring supplied with the replacement coil.
5. Install TXV and hand tighten the mechanical fitting. Use back-up wrench and tighten assembly firmly. Do not over tighten.
6. Install external equalizer and hand tighten the fitting. Use back-up wrench and tighten assembly firmly. Do not over tighten.
7. Install TXV sensing bulb in the same location prior to removal. Wrap sensing bulb with the new insulation provided with the replacement coil. Use tie wrap to secure.
8. Install water diverter using the same hole locations prior to removal.
9. Slide horizontal drain pan into the prior position and slide coil assembly into the unit.
   Note: Step not required for downflow coil replacements.
10. Install coil retaining brackets.
    Note: Step is optional for downflow coil replacements.
11. Reinstall the center horizontal brace.
12. Reinstall coil and blower panels.
13. **Important:** Before brazing the refrigerant connections, wrap a wet rag around the suction and liquid lines between the panel and the braze joint to protect the TXV, sensing bulb, and unit paint finish.

Figure 5



Wrap tubes with wet rags when brazing.

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Tyler, TX 75707
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Intertek