

INSTALLER'S GUIDE

88-A4AH4TXV-1C-EN

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

Coil TXV Kit:

BAY4TXV1830A

Fits Coil Models:

A4AH4P18A

A4AH4P24A

A4AH4P30A

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

General Information

This TXV kit is intended only for use with the specific models of the A4AH Air Handlers.

This kit is used to increase efficiency ratings for these models.

NOTE: This kit is for use with 410A Refrigerant only.

Kit Identification

Confirm that the air handler TXV kit is approved for use with the air handler model being installed.

Inspection

Check carefully for any shipping damage. Any damage must be reported to, and claims made against the transportation company immediately. Any missing parts should be reported to your supplier at once and replaced with authorized parts only.

Coil TXV Kit Contents

Open and inspect contents for damage or missing items.

Each kit contains:

No.	Qty	Description
1	1	Expansion Valve
2	1	Teflon® O-ring
3	1	Installer's Guide (Not shown)
4	1(2)	Bulb Insulation
5	1(2)	Cable Tie
6	1	Sensing Bulb Strap
7	1(2)	Push-in Cable Tie

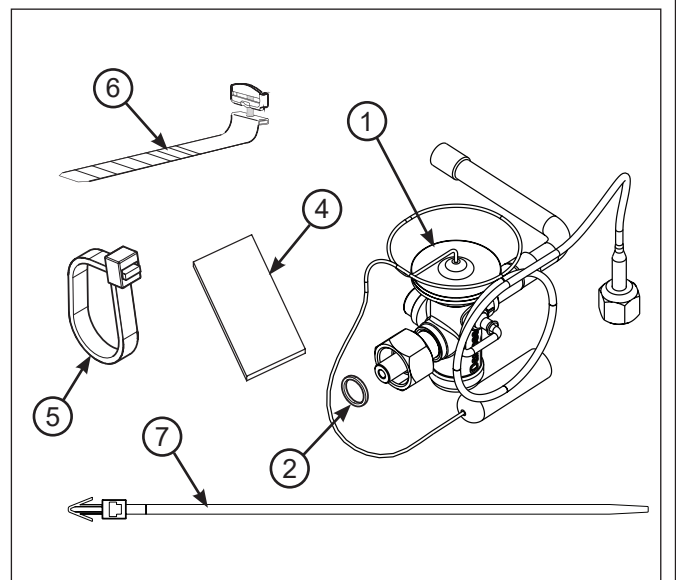


Figure 1

Installation Instructions

1. If air handler has never been installed, go to Step 2. If air handler has been previously installed, recover system charge or “pump-down” system charge into the condensing unit to comply with EPA regulations.

NOTE: *Minimize the amount of movement of the liquid and distributor tubes to prevent work hardening.*

2. Using a back-up wrench, loosen mechanical fittings on the orifice housing of the distributor.
3. Remove the cap from the equalizer port and then **REMOVE the Schrader valve from the port.**
4. Remove the Teflon® O-ring from the existing flow control assembly. O-rings may be attached to the TXV or the fittings.

IMPORTANT: *Proper installation of TXV is critical for preventing leaks. DO NOT oil any threads on TXV, distributor, or liquid line fittings.*

5. To install the coil TXV, install the new O-ring over the distributor fitting (Figure 2). Hand-tighten the nut to make sure there is proper mating of threads. Tighten until bodies “bottom” or a definite resistance is felt. Use a back-up wrench and tighten an additional 1/4 turn. Wrap supplied push-in cable tie around TXV and then insert cable tie barb into coil housing hole.

IMPORTANT: *Correct tightening of the nut is very important. Under- or over-tightening may result in a leaking connection.*

6. Connect the TXV equalizer line to the equalizer port. Hand-tighten until flare bottoms. Use a back-up wrench to tighten securely (Figure 4).

IMPORTANT: *Replacing the liquid line filter drier is recommended if system has been commissioned. This is not necessary if this kit is being installed on a new air handler.*

7. To avoid damaging the TXV, braze the field gas line to the air handler gas manifold prior to attaching the TXV bulb.
8. After completing the brazing operation, allow the lines to cool. Attach the bulb to the gas line as shown in figure 3.

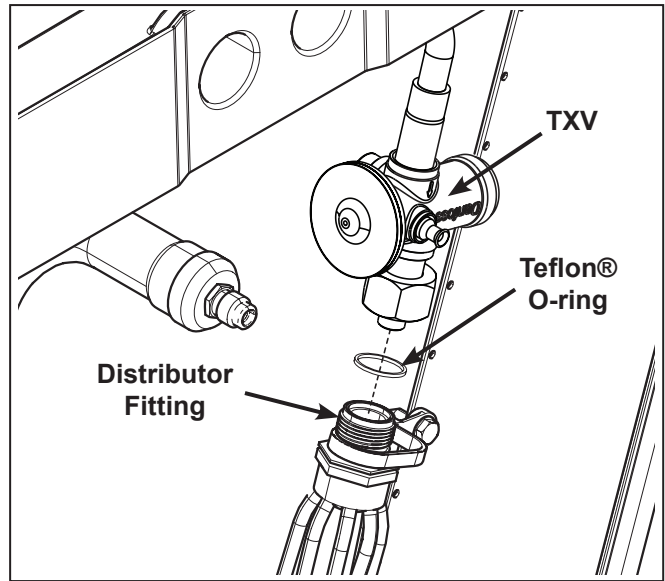


Figure 2

Make contact tight.

- Clean the suction line thoroughly before clamping the bulb in place.
- Bulb has to be mounted in tight contact with pipe. (TIP: Shine a flashlight between bulb and suction line, realign the bulb if light is visible.)
- Align the bulb with copper gas line and position at 10 or 2 o'clock.
- Pull the bulb strap tight around the copper gas line and bulb before tightening the screw.
- After tightening, it should not be possible to move the bulb by hand.

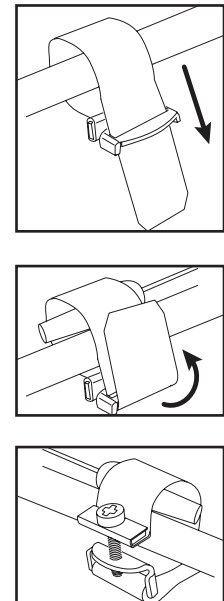


Figure 3

9. Wrap the bulb with supplied insulation and secure with supplied cable tie (Figure 4).

The entire length of the bulb must be in firm contact with the gas line. The remote bulb tubing must not be allowed to touch a surface colder than the remote bulb location. The remote bulb tubing must be isolated from rubbing all other components.

⚠ CAUTION

Do not allow copper and aluminum materials to touch. Maintain a minimum of .25" between copper and aluminum material to avoid galvanic corrosion which may lead to coil leaks.

10. Pressurize with dry nitrogen and leak test all joints to ensure no leaks exist. Evacuate system to a minimum of 500 microns.
11. Verify that all distributor tubes are positioned over the drain pan to ensure distributor tubing condensate is collected.
12. Open valves to outdoor unit if pumped-down or charge to a minimum of 50 psig static pressure. Start system and charge to appropriate level per the charging method recommended in the Outdoor Unit Installer's Guide.

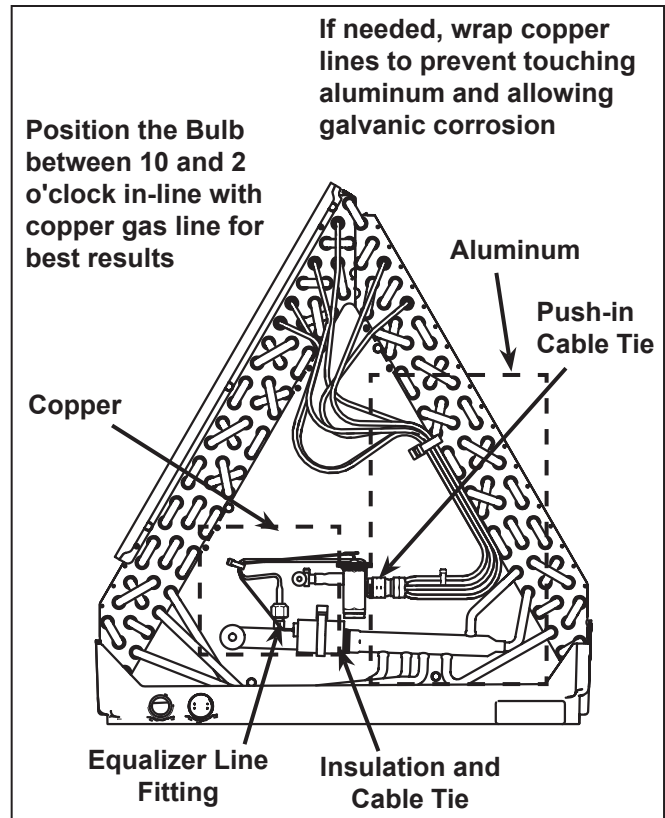


Figure 4

About Trane and American Standard Heating and Air Conditioning

Trane and American Standard create comfortable, energy efficient indoor environments for residential applications. For more information, please visit www.trane.com or www.americanstandardair.com

The manufacturer has a policy of continuous data improvement and it reserves the right to change design and specifications without notice. We are committed to using environmentally conscious print practices.