

# Installer's Guide

## R-22 Coil Thermal Expansion Valve Installation

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

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**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 Thermostatic Expansion Valve Kit may be used on any indoor air handler or coil that is equipped with a current thermostatic expansion valve with an internal check valve and mechanical fittings listed on the application chart provided in this Installer's Guide. This kit can be used on split system heat pumps and air conditioning systems.

Thermostatic Expansion Valve Kits can be field installed to fit a variety of sizes and combinations of air handlers or coils and outdoor units to optimize performance.

This TXV Kits will be an exact replacement for the current TXV that is installed in the air handler or coil.

This TXV kit will normally be used when a different refrigerant is going to be used in the air handler or coil than what is indicated on the unit name plate. The TXV type must always match the refrigerant type used in the outdoor unit.

### Kit Identification

Confirm the TXV kit type is approved to be used with an indoor model. See application guide on pages 3 to verify proper kit and product model number. The first character in the kit model number indicates the type of refrigerant that the valve can be used with. For example, a 2AYTXVC3A2626A is an R22 valve.

The "3" in the eighth digit in the model number identifies the valve as a non-bleed TXV. When this TXV kit is installed with an outdoor unit that contains a reciprocating compressor, the outdoor unit must be equipped with a hard start kit if not factory installed. If the outdoor unit contains a scroll compressor, the installation of a hard start kit may be required.

### Inspection

Check carefully for any shipping damage. Any such 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.

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### Installation Instructions

1. Skip this step if the air handler or coil has never been installed. Recover system charge or "pump-down" system charge into the condensing unit complying with EPA regulations. Remove the sensing bulb from the suction line manifold by removing the clamp.
2. Using a back-up wrench, loosen mechanical fittings on each side of the TXV to be replaced.
3. Using a back-up wrench, loosen the external equalizing coupling.
4. Minimize the amount of movement of the liquid and distributor tubes to prevent work hardening.
5. To install the replacement TXV, connect the adapters by hand to ensure proper mating of threads and tighten until bodies "bottom" or a definite resistance is felt. DO NOT oil threads. The valve will only fit in one direction of flow.

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6. **See Figure 1.** Place a mark on one corner of the union nut and the thread assembly on the TXV (A). Then using a back-up wrench, tighten each nut an additional 1/6 turn (or 1 hex flat). The alignment of the lines will show the amount that the assemblies have been tightened. This final 1/6 turn is necessary to ensure the formation of leak proof joints. **See Figure 2.**

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### IMPORTANT

Correct tightening of the couplings is very important. Under tightening or over tightening may result in a coupling leak.

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7. Install the equalizer line by hand tightening until the flare "bottoms", then use a back-up wrench and tighten securely.

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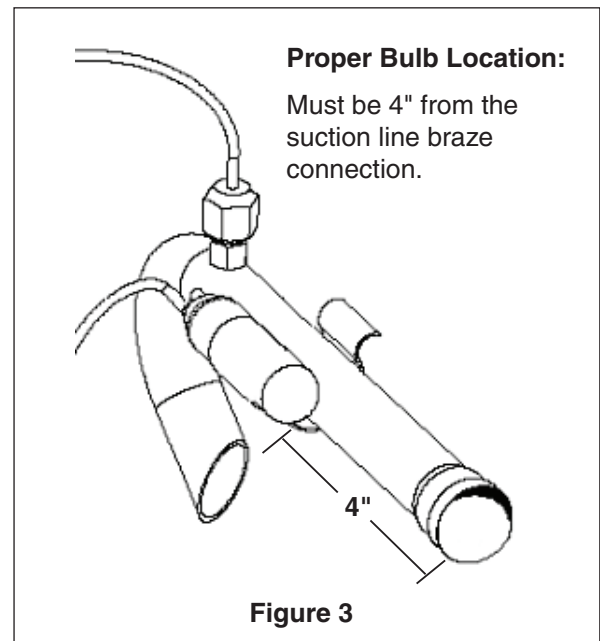
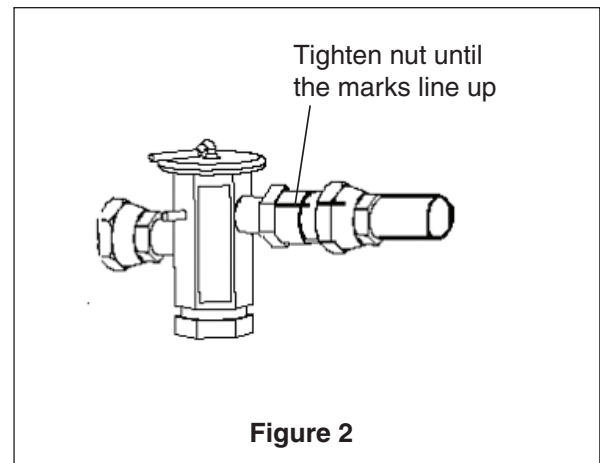
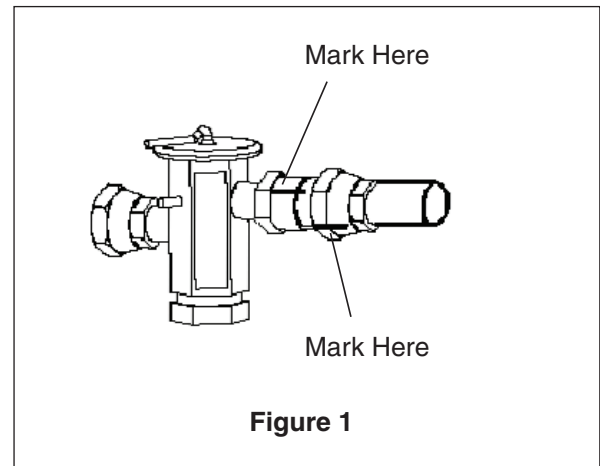
### IMPORTANT


Following good refrigeration practices, replacing the liquid line filter drier is recommended if the system has been commissioned. This is not necessary if this kit is being installed on a new air handler or coil.

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8. To avoid damaging the TXV, remove the bulb or wrap a wet rag around the suction line between the TXV bulb and the braze joint before brazing. Clamp the TXV bulb to the gas line as illustrated in **Figure 3**. 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 any other components. Insulate the bulb with the supplied insulation in the kit.
9. Pressurize with dry nitrogen and leak test all joints to insure no leaks exist. Evacuate system to a minimum 500 microns.
10. Make sure all capillary tubes are positioned over the drain pan to assure that any condensate that may form and drip from them is collected in the drain pan.
11. 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 Installers Guide.
12. Using a permanent marker, check the Alternative Refrigerant Type box on the Air Handler, or circle the Refrigerant Type on the Coil Name Plate once the TXV kit installation is completed.

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13. **IMPORTANT:** Install the caution label (**Figure 4**) on the front panel of the unit.
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 <b>CAUTION</b>
<b>UNIT CONTAINS R-22 REFRIGERANT!</b>
<p>R-22 OPERATING PRESSURE DIFFERS FROM THE OPERATING PRESSURE OF R-410A. PROPER SERVICE EQUIPMENT IS REQUIRED.</p> <p>Failure to use proper service tools may result in equipment damage or personal injury.</p>
<b>SERVICE</b>  <b>USE ONLY R-22 REFRIGERANT AND APPROVED COMPRESSOR OIL</b>
<p>This unit has been converted to R-22 refrigerant. Change the model number first digit to 2 when ordering replacement parts.</p>
<small>A342546P01</small>

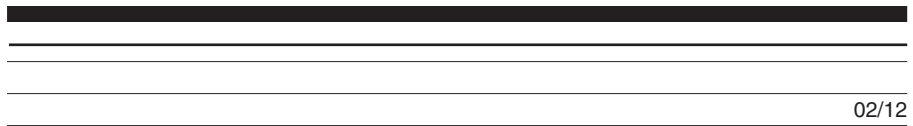
**Figure 4**

**Application Guide  
Air Conditioning and Heat Pump Systems**

<b>TXV</b>			
<b>Condenser</b>	<b>Aluminum Furnace Coil</b>	<b>TXV Kit R-22</b>	<b>Global Parts TXV Kit - R-22</b>
2TTM3018-024	4TXCB026	2AYTXVC3A2626A	KIT6273
2TTM3030	4TXCB032	2AYTXVC3A3244A	KIT6274
2TTM3036	4TXCC044	2AYTXVC3A3244A	KIT6274
2TTM3042	4TXCC044	2AYTXVC3A4449A	KIT6275
2TTM3048	4TXCC049	2AYTXVC3A4449A	KIT6275
2TTM3060	4TXCC064	2AYTXVC3A6464A	KIT6276

**6200 Troup Highway  
Tyler, TX 75707**

*For more information contact  
your local dealer (distributor)*



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*Since the manufacturer has a policy of continuous product and product data improvement, it reserves the right to change design and specifications without notice.*