

## General Service Bulletin Addition of Oil Additive CHM01005 For New Installations (Patent Pending)

### Affected Models

See page 4, 5 and 6 for model list

### Serial Range

13401\*\*\*\*F to 14445\*\*\*\*F  
13401\*\*\*\*H to 14445\*\*\*\*H  
13401\*\*\*\*L to 14445\*\*\*\*L

**Bulletin Number:** UN-SVB021F-EN      **Date:** August 23, 2016

Supersedes Bulletin UN-SVB021E-EN

**⚠ 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 bulletin and on the tags, stickers, and labels, as well as the instructions below:

- Before installing/servicing this unit, technicians **MUST** put on all Personal Protective Equipment (PPE) recommended for the work being undertaken. **ALWAYS** refer to appropriate MSDS sheets and OSHA guidelines for proper PPE.
- When working with or around hazardous chemicals, **ALWAYS** refer to the appropriate MSDS 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 Personal Protective Equipment (PPE) in accordance with NFPA 70E or other country-specific requirements for arc flash protection, **PRIOR** to servicing the unit.

ATTENTION: Warnings, Cautions and Notices appear at appropriate sections throughout this literature. Read these carefully:

- ⚠ 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.

**⚠ 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.

**⚠ WARNING: HAZARDOUS VOLTAGE - DISCONNECT POWER and DISCHARGE CAPACITORS BEFORE SERVICING**

**⚠ 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**

**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.

## Introduction

The purpose of this bulletin is to provide process steps to install an oil additive that may **Pre-vent** certain deposits from forming on the internal pin and spring assembly of the TXV. This is a recommended action for units within the affected model and serial number range during initial installation. This is **not** a safety issue.

## Discussion

We have received field reports of high superheat and low suction pressure caused by a partially restricted TXV. Studies of these TXVs resulted in finding debris being deposited on the internal pin and spring assembly. These deposits restrict the flow of refrigerant through the TXV. This has been most predominately found in the 1.5 to 3.0 ton air handler and furnace coils but can rarely occur in larger tonnages. Adding CHM01005 to the refrigerant system has shown to prevent these deposits. This bulletin addresses the addition of CHM01005 at the time of unit installation.

## Action Field

During installation of the outdoor unit, add part number CHM01005 to the refrigerant system prior to placing the system into normal operation. Use the following steps to add CHM01005 to the refrigerant system.

After all external refrigerant piping is completed, pressure tested, and proven to be leak free.

1. Pull a vacuum on the external piping system to less than 29" Mercury or 1000 microns for a period of 10 minutes
2. Close both the Liquid and Suction gauge valves on the manifold set.
3. Insert the common (center) hose of the manifold set into the bottle of CHM01005. Make sure the hose goes all the way to the bottom of the CHM01005 bottle.
4. Open both the Liquid and Suction gauge valves on the manifold set. (This will draw the CHM01005 into the piping system).
5. Allow all of the CHM01005 to be drawn into the piping system until the vacuum has reached atmospheric pressure. The bottle should be empty.
6. Close both the Liquid and Suction gauge valves on the manifold set.
7. Using dry nitrogen or similar product purge the any oil additive remaining in manifold set and hoses by pressurizing the external refrigerant system to 25psig.
8. Purge the dry nitrogen to atmosphere
9. Pull another vacuum to 500 microns or less. Following unit installation instructions.
10. Release the refrigerant charge contained in the outdoor unit to the piping system.
11. Set the refrigerant charge per the unit installation instructions.
12. Add label part number LBL00427 to the unit.

***Do Not use the unit compressor to draw the CHM01005 additive into the refrigerant system. Using the unit compressor to create a vacuum deep enough to draw the additive in could damage the unit compressor***

***Important:***  
*Oil additive CHM01005 is an approved oil additive when applied as directed in this service bulletin.*

## **Parts Ordering Information:**

One bottle of CHM01005 and one label LBL00427 should be ordered through normal parts channels

## **Material Disposition:**

Discard any parts in accordance with federal, state and local guidelines after it is determined they are no longer needed.

## **Expiration Date:**

This bulletin will expire September 30, 2018.

## **Questions:**

Dealer and Distributor Personnel: Contact your Local Field Service Representative.

Field Service Representatives: Contact Technical Support in Tyler, TX.

### Affected Models

4TTB3018A1000A	4TTM3024B1000A	4TWR3018D1000A	4A6H3018D1000A	4A7A6036H1000A
4TTB3018G1000A	4TTM3030B1000A	4TWR3024D1000A	4A6H3024D1000A	4A7A6042H1000A
4TTB3018H1000A	4TTM3042A1000B	4TWR3036C1000A	4A6H3036C1000A	4A7A6048H1000A
4TTB3024A1000A	4TTM3042A1000C	4TWR3042B1000A	4A6H3036C1000A	4A7A6049H1000A
4TTB3024G1000A	4TTM3042A1000D	4TWR3048B1000A	4A6H3042B1000A	4A7A6060H1000A
4TTB3024H1000A	4TTM3048A1000B	4TWR3060B1000A	4A6H3048B1000A	4A7A6061H1000A
4TTB3030A1000A	4TTM3060A1000B	4TWR4036D1000A	4A6H3060B1000A	4A7A6061J1000A
4TTB3030G1000A	4TTX6024G1000B	4TWR4042D1000A	4A6H3060B1000A	4A7A7024A1000A
	4TTX6036H1000A	4TWR4048D1000A	4A6H4036D1000A	4A7A7036A1000A
	4TTX6042H1000A	4TWR4060D1000A	4A6H4042D1000A	4A7A7048A1000A
4TTB3036A1000A	4TTX6048H1000A	4TWR5042G1000A	4A6H4048D1000A	4A7A7060A1000A
4TTB3036A1000A	4TTX6049H1000A	4TWR5049E1000B	4A6H4060D1000A	
4TTB3042D1000C	4TTX6060H1000A	4TWR5061E1000B	4A6H5042G1000A	
4TTB3042D1000A	4TTX6061H1000A	4TWR6024A1000B	4A6H5049E1000B	
4TTB3048D1000C	4TTX8024A1000A	4TWR7024A1000B	4A6H5061E1000B	
4TTB3060D1000C	4TTX8036A1000A	4TWR7036A1000A	4A6H7024A1000B	
4TTB6036A1000A	4TTX8048A1000A	4TWR7036B1000A	4A6H7024A1000A	
4TTB6042A1000A	4TTX8060A1000A	4TWR7048A1000A	4A6H7036B1000A	
4TTB6048A1000A	4TTA3030AD000A	4TWR7048A1000B	4A6H7036B1C00A	
4TTB6049A1000A	4TTA3036AD000A	4TWR7060A1000A	4A6H7048A1000A	
4TTB6060A1000A	4TTA3036B3000A	4TWR7060A1000B	4A6H7048A1000B	
4TTB6061A1000A		4TWR7060A1000B	4A6H7060A1000A	
4TTB6061B1000A	4TTA3036B4000A	4TWR7060A1000B	4A6H7060A1000B	
4TTR3018G1000A	4TTA3042AD000A	4TWR7060A1000B	4A6H7060A1000B	
4TTR3024G1000A	4TTA3042D3000C	4TWR7060A1000B	4A6H7060A1000B	
4TTR3030G1000A	4TTA3042D3000A	4TWR7060A1000B	4A6H7060A1000B	
4TTR3036E1000A	4TTA3042D4000C	4TWR7060A1000B	4A6H7060A1000B	
4TTR3042D1000A	4TTA3048D3000C	4TWR7060A1000B	4A6H7060A1000B	
4TTR3048D1000A	4TTA3048D4000C	4TWR7060A1000B	4A6H7060A1000B	
4TTR3060D1000A	4TTA3060D3000C	4TWR7060A1000B	4A6H7060A1000B	
4TTR4018L1000A	4TTA3060D4000C	4TWR7060A1000B	4A6H7060A1000B	
4TTR4024L1000A	4TWA3036B3000A	4TWR7060A1000B	4A6H7060A1000B	
4TTR4030L1000A	4TWA3036B4000A	4TWR7060A1000B	4A6H7060A1000B	
4TTR4036L1000A	4TWA3042B1000C	4TWR7060A1000B	4A6H7060A1000B	
4TTR4042L1000A	4TWA3042B1000C	4TWR7060A1000B	4A6H7060A1000B	
4TTR6036B1000A	4TWA3042B1000C	4TWR7060A1000B	4A6H7060A1000B	
4TTR6042B1000A	4TWA3042B1000C	4TWR7060A1000B	4A6H7060A1000B	
4TTR6048B1000A	4TWA3042B1000C	4TWR7060A1000B	4A6H7060A1000B	
4TTR6049B1000A	4TWA3042B1000C	4TWR7060A1000B	4A6H7060A1000B	
4TTR6060B1000A	4TWA3042B1000C	4TWR7060A1000B	4A6H7060A1000B	
4TTR6061B1000A	4TWA3042B1000C	4TWR7060A1000B	4A6H7060A1000B	
4TTR6061C1000A	4TWA3042B1000C	4TWR7060A1000B	4A6H7060A1000B	
4TTR7024A1000A	4TWA3042B1000C	4TWR7060A1000B	4A6H7060A1000B	
4TTR7036A1000A	4TWA3042B1000C	4TWR7060A1000B	4A6H7060A1000B	
4TTR7048A1000A	4TWA3042B1000C	4TWR7060A1000B	4A6H7060A1000B	
4TTR7060A1000A	4TWA3042B1000C	4TWR7060A1000B	4A6H7060A1000B	

## Affected Models

4DCY4036B3075A	4YCC3030C1075A	4WCX3036A1000B	4YCY4036B1075B
4DCY4036C1075A	4YCC3030C1075A	4WCX3036A3000B	4YCY4036B1096B
4DCY4042B1096A	4YCC3036A1064B	4WCX3042B1000A	4YCY4036B3075A
4DCY4048A3096C	4YCC3036A1075B	4WCX3048A1000B	4YCY4036B3096A
4DCY4048B1096B	4YCC3036A1075B	4WCX3060A1000B	4YCY4042B1096B
4DCY4060A3120C	4YCC3036A1096B	4WCX3060A3000B	4YCY4048B1096A
4DCY4060B1120C	4YCC3036A3064B	4WCY4036B3000A	4YCY4048B1096B
4DCZ6036A1075B	4YCC3036A3075B	4WCY4036C1000A	4YCY4048B1120B
4DCZ6036A3075B	4YCC3036A3075B	4WCY4042B1000A	4YCY4048B3096A
4DCZ6036B1075A	4YCC3036A3096B	4WCY4048A3000C	4YCY4048B3120A
4DCZ6036B3075A	4YCC3036A4064B	4WCY4048B1000B	4YCY4060A1120B
4DCZ6048A1096B	4YCC3036A4075B	4WCY4060A3000C	4YCY4060A3120B
4DCZ6048B1096A	4YCC3036A4096B	4WCY4060B1000C	4YCY4060A3120B
4DCZ6048B3096A	4YCC3042B1096A	4WCZ6036A1000B	4YCY4060A3120B
4DCZ6060A1120B	4YCC3048A1075B	4WCZ6036A3000B	4YCY4060A3120B
4DCZ6060A3120B	4YCC3048A1096B	4WCZ6036A4000B	4YCY4060A3120B
4DCZ6060B1120A	4YCC3048A1120B	4WCZ6036B1000A	4YCY4060A3120B
4DCZ6060B3120A	4YCC3048A3075B	4WCZ6036B3000A	4YCY4060A3120B
4TCC3030C1000A	4YCC3048A3096B	4WCZ6036B4000A	4YCY4060A3120B
4TCC3036A1000B	4YCC3048A3120B	4WCZ6048A1000B	4YCY4060A3120B
4TCC3036A3000B	4YCC3048A4075B	4WCZ6048A3000B	4YCY4060A3120B
4TCC3036A4000B	4YCC3048A4096B	4WCZ6048A4000B	4YCY4060A3120B
4TCC3042B1000A	4YCC3048A4120B	4WCZ6048B1000A	4YCY4060A3120B
4TCC3048A1000B	4YCC3060A1096B	4WCZ6048B3000A	4YCY4060A3120B
4TCC3048A3000B	4YCC3060A1120B	4WCZ6048B4000A	4YCY4060A3120B
4TCC3048A4000B	4YCC3060A3096B	4WCZ6060A1000B	4YCY4060A3120B
4TCC3060A1000B	4YCC3060A3120B	4WCZ6060A3000B	4YCY4060A3120B
4TCC3060A3000B	4YCC3060A4096B	4WCZ6060A4000B	4YCY4060A3120B
4TCC3060A4000B	4YCC3060A4120B	4WCZ6060B1000A	4YCY4060A3120B
4TCX3036A1000B	4YCX3030C1075A	4WCZ6060B3000A	4YCY4060A3120B
4TCX3036A3000B	4YCX3030C1075A	4WCZ6060B4000A	4YCY4060A3120B
4TCX3036A4000B	4YCX3036A1064B	4WCZ6060A1000B	4YCY4060A3120B
4TCX3042B1000A	4YCX3036A1075B	4WCZ6060A3000B	4YCY4060A3120B
4TCX3048A1000B	4YCX3036A1075B	4WCZ6060A4000B	4YCY4060A3120B
4TCX3060A1000B	4YCX3036A1096B	4WCZ6060B1000A	4YCY4060A3120B
4TCX3060A3000B	4YCX3036A3075B	4WCZ6060B3000A	4YCY4060A3120B
4TCY4036B1000B	4YCX3036A3096B	4WCZ6060B4000A	4YCY4060A3120B
4TCY4042B1000B	4YCX3036A4075B	4WCZ6060B1000A	4YCY4060A3120B
4TCY4048B1000B	4YCX3042B1096A	4WCZ6060B3000A	4YCY4060A3120B
4TCY4060A1000B	4YCX3048A1096B	4WCZ6060B4000A	4YCY4060A3120B
4WCC3036A1000B	4YCX3048A1120B	4WCZ6060B1000A	4YCY4060A3120B
4WCC3036A3000B	4YCX3060A1096B	4WCZ6060B3000A	4YCY4060A3120B
4WCC3036A4000B	4YCX3060A1120B	4WCZ6060B4000A	4YCY4060A3120B
4WCC3042B1000A	4YCX3060A3096B	4WCZ6060B1000A	4YCY4060A3120B
4WCC3048A1000B	4YCX3060A3120B	4WCZ6060B3000A	4YCY4060A3120B
4WCC3048A3000B	4YCX3060A4120B	4WCZ6060B4000A	4YCY4060A3120B
4WCC3048A4000B			4YCY4060A3120B
4WCC3060A1000B			4YCY4060A3120B
4WCC3060A3000B			4YCY4060A3120B
4WCC3060A4000B			4YCY4060A3120B

### Affected Models

THC036E1E0A1F0	YHC036E1EHA1HD	YHC036E4ELA1JA	YSC036E1EHA1N0
THC036E1E0A1FD	YHC036E1EHA1J0	YHC036E4ELA1JD	YSC036E1EHA1ND
THC036E1R0A1E0	YHC036E1EHA1JC	YHC036E4EMA1J0	YSC036E1EHA1P0
THC036E3E0A1F0	YHC036E1EMA1J0	YHC036E4EMA1JD	YSC036E1EHA1PC
THC036E3E0A1FC	YHC036E1EMA1JD	YHC036E4RHA1J0	YSC036E1EHA1PD
THC036E3R0A1F0	YHC036E1RHA1H0	YHC036E4RHA1JF	YSC036E1ELA1N0
THC036E3R0A1FA	YHC036E1RLA1J0	YHC036E4RHA1JG	YSC036E1ELA1ND
THC036E3R0A1FD	YHC036E1RLA1JF	YHC036E4RHA1JH	YSC036E1ELA1P0
THC036E4E0A1F0	YHC036E1RLA1JH	YHC036E4RLA1HD	YSC036E1ELA1PD
THC036E4EBA1FD	YHC036E3EHA1J0	YHC036E4RLA1J0	YSC036E1EMA1N0
THC036E4EEA1FD	YHC036E3EHA1JC	YHC036E4RLA1JB	YSC036E1EMA1NC
THC036E4R0A1EB	YHC036E3EHA1JD	YHC036E4RLA1JC	YSC036E1EMA1P0
THC036E4R0A1F0	YHC036E3ELA1J0	YHC036E4RLA1JD	YSC036E1EMA1PA
THC036E4R0A1FD	YHC036E3ELA1JA	YHC036E4RLA1JG	YSC036E1EMA1PB
THC036E4R0A1FK	YHC036E3ELA1JB	YHC036E4RLA1JH	YSC036E1EMA1PC
THC036E4RBA1FD	YHC036E3ELA1JD	YHC036E4RMA1J0	YSC036E1EMA1PD
THC036E4REA1FB	YHC036E3EMA1J0	YHC036E4RMA1JA	YSC036E1EYA1PD
THC036E4REA1FH	YHC036E3EMA1JC	YHC036E4RMA1JD	YSC036E1EZA1P0
THC036E4RGA1FD	YHC036E3EMA1JD	YHC036E4RXA1JD	YSC036E1EZA1PA
TSC036E1E0A1J0	YHC036E3EZA1JD	YHC036E4RYA1JC	YSC036E1RHA1N0
TSC036E1E0A1K0	YHC036E3RHA1J0	YHC036E4RYA1JD	YSC036E1RHA1P0
TSC036E1E0A1KC	YHC036E3RHA1JD	YHC036E4RYA1JF	YSC036E1RHA1PA
TSC036E1E0A1KD	YHC036E3RHA1JF	YHC036E4RYA1JH	YSC036E1RHA1PD
TSC036E1EDA1K0	YHC036E3RHA1JH	YHC036E4RZA1JH	YSC036E1RLA1N0
TSC036E1R0A1J0	YHC036E3RLA1J0		YSC036E1RLA1P0
TSC036E1R0A1K0	YHC036E3RLA1JB		YSC036E1RLA1PD
TSC036E1R0A1KC	YHC036E3RLA1JC		YSC036E1RLA1PF
TSC036E1RDA1K0	YHC036E3RLA1JD		YSC036E1RMA1ND
TSC036E1RDA1KA	YHC036E3RLA1JF		YSC036E1RMA1P0
	YHC036E3RLA1JG		YSC036E1RMA1PD
	YHC036E3RLA1JH		YSC036E1RXA1PD
	YHC036E3RMA1J0		
	YHC036E3RMA1JB		
	YHC036E3RMA1JC		
	YHC036E3RMA1JD		
	YHC036E3RMA1JG		
	YHC036E3RMA1JH		
	YHC036E3RXA1JD		
	YHC036E4EHA1J0		
	YHC036E4EHA1JC		
	YHC036E4EHA1JD		
	YHC036E4ELA1J0		

Literature Order Number		<b>UN-SVB021F-EN</b>
File Number		
Supersedes	Supersedes UN-SVB021E-EN	
Stocking Location	Electronic Only	
Trane has a policy of continuous product data and product improvement and reserves the right to change design and specifications without notice. Only qualified technicians should perform the installation and servicing of equipment referred to in this bulletin.		