



TRANE[®]

18-AC98D1-7B-EN

Installer's Guide

Condensing Units

4TTR6018-061

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

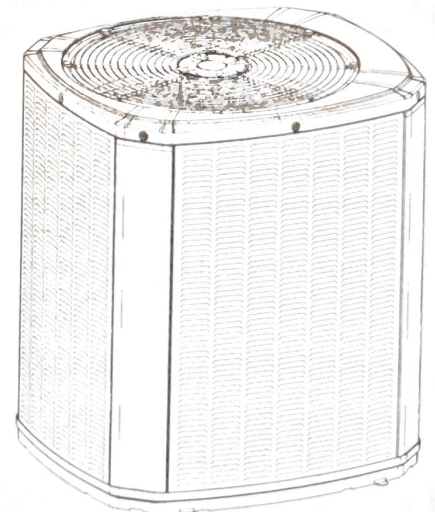
IMPORTANT — This Document is customer property and is to remain with this unit. Please return to service information pack upon completion of work.

These instructions do not cover all variations in systems or 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.

Note: The manufacturer recommends installing only approved matched indoor and outdoor systems. Some of the benefits of installing approved matched indoor and outdoor split systems are maximum efficiency, optimum performance and the best overall system reliability.

Table of Contents

Section 1. Safety.....	2
Section 2. Unit Location Considerations	3
Section 3. Unit Preparation.....	4
Section 4. Setting the Unit.....	5
Section 5. Refrigerant Line Considerations.....	5
Section 6. Refrigerant Line Routing	6
Section 7. Refrigerant Line Brazing.....	7
Section 8. Refrigerant Line Leak Check.....	9
Section 9. Evacuation	9
Section 10. Service Valves	10
Section 11. Electrical - Low Voltage	10
Section 12. Electrical - High Voltage	12
Section 13. Start Up.....	12
Section 14. System Charge Adjustment.....	13
Section 15. Checkout Procedures and Troubleshooting.....	18
Section 16. Refrigeration Circuits.....	22



Limited Warranty

Subject to the terms and conditions of this limited warranty, Trane U.S., Inc. ("Company") extends a limited warranty to the original purchaser only for parts (but not labor) replaced as a result of manufacturing defects for the product(s) identified in **Tables 1, 1A, 1B** attached hereto ("Products") that are installed in residential/multi-family application (personal, family, or household purposes) and subject to normal use and maintenance in the United States and Canada. All repairs of Products covered under this limited warranty must be made with authorized service parts and by a licensed service provider. Additionally, commercial applications are treated differently under this limited warranty as stated in **Tables 1, 1A, 1B** attached hereto. "Commercial applications" shall mean any application other than for personal, family or household use.

This limited warranty applies to Products manufactured on or after January 1, 2020. Please read it in its entirety.

TERM: Tables 1, 1A, 1B (attached hereto) contain the Limited Warranty Period for the original purchaser:

- For most installed Products including, but not limited to, Products installed in a builder's model home, the Commencement Date shall be the date that the original installation is complete and all Product start-up procedures have been properly completed and recorded on the installer's invoice, which includes all model and serial numbers of the installed Product(s). If the installation and start-up date was not recorded on the installer's invoice the Commencement Date shall be sixty (60) days after the factory manufacture date, which is determined by the Product serial number.
- If a Product is installed in a newly constructed home, the Commencement Date is the date the original purchaser purchased the residence from the builder. Proof of Product purchase, installation, and/or closing date of the residence may be required to confirm the Commencement Date.
- The installation of Product replacement parts under this limited warranty shall not extend the original warranty period. The warranty period for any Product part replaced under this limited warranty is the applicable warranty period remaining under the original Product warranty.
- If the original purchaser sells the home within five (5) years of the Commencement Date, this limited warranty shall apply to the subsequent purchaser(s) for all parts except the heat exchanger until five (5) years from the Commencement Date and for the heat exchanger until twenty (20) years from the Commence Date.

How to Obtain Service: To locate a service provider in your area, who will provide service under this limited warranty, for Trane Product(s) please visit: www.trane.com or call 877-263-7578, for American Standard Product(s) please visit: www.americanstandardair.com or call 855-480-2741. Company may request proof of Product purchase and/or installation, including installation address, in order to provide replacement part(s) under this limited warranty.

What Company Will Do: As the Company's only responsibility and the purchaser's only remedy under this limited warranty, Company will furnish a replacement part for installation by licensed HVAC service provider, without charge for the part only, to replace any Product part that fails due to a manufacturing defect under normal use and maintenance. The purchaser must pay for any and all shipping and handling charges and other costs of warranty service for the replacement part. If the Product part is not available, the Company will, at its option, provide a free suitable part or provide a credit in the amount of the then factory selling price for a new suitable substitute part to be used by the purchaser towards the retail purchase price of a new Company product. Any new Product purchase shall be at purchaser's sole cost and expense including, but not limited to, all shipping, removal, and installation costs and expenses.

Eligibility Requirements: The following items are required in order for the Product(s) to be covered under this limited warranty:

- The Product(s) must be in the same location where they were originally installed.
- The Product(s) must be properly installed, operated, and maintained by a licensed HVAC service provider in accordance with the Product specifications or installation, operation, and maintenance instructions provided by Company with each Product. Failure to conform to such specification and/or installation, operation, and maintenance instructions shall void this limited warranty.
- Company may request written documentation showing the proper preventative maintenance.
- All Product parts replaced by Company under this limited warranty must be given to the servicing provider for return to Company.
- Air handler, air conditioner, heat pumps, cased or uncased coils, stand-alone furnaces, and packaged units must be part of an Air Conditioning, Heating, and Refrigeration Institute rated and matched system or a specification in a Company provided bulletin or otherwise approved in writing by a Company authorized representative.
- All claims under this limited warranty must be filed within 90 days of failure date.

Exclusions: Following are not covered by this limited warranty:

- Labor costs, including, but not limited to, costs for diagnostic calls or the removal and reinstallation of Products and /or Product parts.
- Shipping and freight expenses required to ship Product replacement parts.
- Failures, defects or damage (including, but not limited to, any loss of data or property) caused by:
 - Any third party product, service, or system connected or used in conjunction with the Product(s);
 - Any use that is not designed or intended for the Product(s);
 - Modification, alteration, abuse, misuse, negligence, or accident;
 - Improper storage, installation, maintenance, or operation including, but not limited to, operation of electrical equipment at voltages other than the range specified on the Product nameplate;
 - Any use in violation of the written instructions or specifications provided by Company;
 - Any acts of God including, but not limited to, fire, water, storms, lightning, or earthquakes, or any theft or riots;
 - A corrosive atmosphere or contact with corrosive material such as, but not limited to, chlorine, fluorine, salt, sulfur, recycled waste water, urine, fertilizers, rust, or other damaging substances or chemicals.
- Products purchased direct including, but not limited to, Internet, or auction purchases and purchases made on an uninstalled basis.
- Cabinets or cabinet pieces that do not affect Product performance, air filters, refrigerant, refrigerant line sets, belts, wiring, fuses, surge protection devices, non-factory installed driers, and Product accessories.
- Increased utility usage costs.
- Replacement parts required to convert Product(s) from R-410A refrigerant to any other refrigerant.
- Use of alternate, contaminated, counterfeit, non-manufacture approved refrigerants, and/or non-approved refrigerant additives including, but not limited to, dyes will void this warranty.
- Liquid line filter drier must be replaced when a compressor replacement is necessary. A suction line filter drier must be added for compressor failures defined as burnouts and failure to do so will void this limited warranty.

Additional Terms: THIS LIMITED WARRANTY AND LIABILITY SET FORTH HEREIN ARE IN LIEU OF ALL OTHER WARRANTIES AND LIABILITIES, WHETHER IN CONTRACT OR IN NEGLIGENCE, EXPRESS OR IMPLIED, IN LAW OR IN FACT. THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE LIMITED TO THE DURATION OF THE APPLICABLE PRODUCT WARRANTY. COMPANY DOES NOT AUTHORIZE ANY PERSON TO CREATE FOR IT ANY OBLIGATION OR LIABILITY IN CONNECTION WITH THE PRODUCT(S). NOTWITHSTANDING ANYTHING IN THIS LIMITED WARRANTY TO THE CONTRARY, COMPANY SHALL NOT BE LIABLE FOR ANY INCIDENTAL, CONSEQUENTIAL, INDIRECT, SPECIAL, AND/OR PUNITIVE DAMAGES, WHETHER BASED ON CONTRACT, WARRANTY, TORT, (INCLUDING, BUT NOT LIMITED TO, STRICT LIABILITY OR NEGLIGENCE), PATENT INFRINGEMENT, OR OTHERWISE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. COMPANY'S MAXIMUM LIABILITY HEREUNDER IS LIMITED TO THE ORIGINAL PURCHASE PRICE FOR THE PRODUCT(S).

No action arising out of any claimed breach of this limited warranty may be brought by the purchaser more than one (1) year after the cause of action has arisen.

This limited warranty gives you specific legal rights, and you also have other rights that vary from state to state. If this Product is considered a consumer product, please be advised that some state laws do not allow exclusions or limitations on incidental or consequential damages, or limitations on how long a warranty lasts; or how long an implied warranty lasts, so that the above limitations may not apply to you. Refer to your local laws for your specific rights under this limited warranty. If you any questions regarding this limited warranty, please contact your original installation dealer, or any participating dealer, should your original installation dealer no longer be available.

Customer Relations, PO Box 4419, Bridgeton, MO 63044; Phone 1-800-945-5884
Or visit our website at www.trane.com or www.americanstandardair.com

GW-658-2032

TABLE 1: Warranty Time Periods for Trane and American Standard Products applied in residential applications.

SINGLE PHASE R-410A OUTDOOR UNITS:
4TTR, 4TWR, 4TTL6, 4TWL6, 4TWL9, 4A6B, 4A6H, 4A7B, 4A7M, 4A7A, 4A7L6, 4A6L6, 4A6L9

Limited Warranty Period - Original Purchaser:
Compressor, Outdoor Coil, Parts - ten (10) years.

4TTX, 4TTV, 4TWX, 4TWV, 4A6H7, 4A6V, 4A7A7, 4A7V:

Limited Warranty Period - Original Purchaser:
Compressor - twelve (12) years, Outdoor Coil, Parts - ten (10) years.

AIR HANDLERS:

TAM, GAF2, GAM5, GMU, GMV, TEM, TMM:

Limited Warranty Period - Original Purchaser:
Indoor Coil and Parts - ten (10) years.

PACKAGED AIR CONDITIONERS and HEAT PUMPS (SINGLE-PHASE):

4TCC4, 4TCY5, 4WCC4, 4WCY5, 4WHC4:
Limited Warranty Period - Original Purchaser:
Compressor, Coils, Parts - ten (10) years.

4YCC4, 4DCY4, 4DCL4, 4YCY5, (SINGLE-PHASE):

Limited Warranty Period - Original Purchaser:
Compressor, Coils, Parts - ten (10) years, Heat Exchanger - twenty (20) years.

4WCZ6 (SINGLE-PHASE):

Limited Warranty Period - Original Purchaser:
Compressor - twelve (12) years, Coils, Parts - ten (10) years.

4DCZ6, 4YCZ6 (SINGLE-PHASE):

Limited Warranty Period - Original Purchaser:
Compressor - twelve (12) years, Coils, Parts - ten (10) years,
Heat Exchanger - twenty (20) years.

FURNACES (*First digit may be a "T" or an "A"):

L8X1, S8X1, S8X2, S8B1
Limited Warranty Period - Original Purchaser:
Parts - ten (10) years, Heat Exchanger - twenty (20) years.

S9B1, S9V2, S9X2, S9X1, *UD2-V/*DD2-V, *UD2-C-V/*DD2-C-V, *UHM/*DHM:

Limited Warranty Period - Original Purchaser:
Parts - ten (10) years, Heat Exchanger - Lifetime

MODULAR BLOWERS: P0V0

Limited Warranty Period - Original Purchaser:
Parts - ten (10) years.

CASED AND UNCASD COILS:

4TXC, 4PXC, 4PXA, 4TXF-CC/CZ, 4GXC, 4MXC, 4AMX:
Limited Warranty Period - Original Purchaser:
Coil, Parts - ten (10) years.

DUCTLESS SYSTEMS (Sold in Canada only):**

4TYK/4MYW, 4TXK/4MXW, 4TXM, 4MXC85, 4MXL, 4MXD, 4MXF, 4MXH
Limited Warranty Period - Original Purchaser:
All Parts - ten (10) years.

**If any part of your Ductless System fails because of a manufacturing defect under normal use and maintenance within the Limited Warranty Period, the Company will furnish the required replacement part, or if the compressor, outdoor coil or indoor coil should be the part that fails during the Limited Warranty period, the affected unit will be replaced. The purchaser must pay for any and all shipping and handling charges and other costs of warranty service for the replacement part including, but not limited to, any related service labor, diagnosis calls and refrigerant. There is no distinction between residential and commercial use for this Limited Warranty term and coverage.

**SPECIFIC TERMS FOR 3-PHASE UNITS
(Models up to 5 Tons in a RESIDENTIAL Application):**

3-PHASE OUTDOOR UNITS: 4TTA, 4TTS6, 4TWA, 4TWS6, 4A7C, 4A7S6, 4A6C, 4A6S6:

Limited Warranty Period - Original Purchaser:
Compressor, Outdoor Coil, Parts - ten (10) years.

3-PHASE PACKAGED UNITS: 4TCY4, 4WCZ6, 4DCZ6, 4WCY4, 4DCY4, 4DCL4, 4YCY5, 4YCY4

Limited Warranty Period - Original Purchaser:
Compressor, Outdoor Coil, Parts - ten (10) years.

4WCZ6, 4DCZ6, 4YCY5:

Limited Warranty Period - Original Purchaser:
Compressor - twelve (12) years, Coils, Parts - ten (10) years,
Heat Exchanger - twenty (20) years

Table 1A: Limited Warranty Time Periods for Trane and American Standard Products applied in residential applications.

CONTROLS: *CONT102, *CONT103, *CONT202, *CONT203, *CONT302, *CONT303, *CONT401, *CONT402, *CONT624, *CONT724, ZSENS930, TCONT830
Limited Warranty Period - Original Purchaser: five (5) years

CONTROLS: *CONT824, *CONT850, *ZON1050, *ZON1040
Limited Warranty Period - Original Purchaser: ten (10) years

ZONING PRODUCTS: ZZONEPNLAC52Z, ZZONEEXPAC52Z, ZZSENSAL0400, BAYSEN01ATEMPA, BAY24VRP, ZDAMP RD, ZDAMP SM, ZDAMP BM, ZDAMP-PRR
Limited Warranty Period - Original Purchaser: ten (10) years

HUMIDIFIERS: *HUMD200, *HUMD300, *HUMD500 and EHUM800
Limited Warranty Period - Original Purchaser: ten (10) years

ENERGY RECOVERY VENTILATOR (EERV): EERV100, EERV200 & EERV300
Limited Warranty Period - Original Purchaser: ten (10) years

FANS AND OTHER VENTILATION PRODUCTS: Ventilator QF130V
Limited Warranty Period - Original Purchaser: five (5) years

AIR CLEANERS: TFD, AFD & EFD

Limited Warranty Period - Original Purchaser: ten (10) years
*(First digit may be a "T", "E" or an "A")

DEHUMIDIFIERS: 70V, 98H, 105XT, SD-12, 100V, 155XT, 205H

Limited Warranty Period: Five (5) Year Functional Parts, Five (5) Year Unit Exchange
*Refrigerant System Failure * Refrigerant System Failure means a failed component in the sealed refrigerant circuit including compressor, coil and related components.

Note: If any part of your Dehumidifier Refrigerant System fails because of a manufacturing defect under normal use and maintenance within the Limited Warranty Period the affected unit will be exchanged. The purchaser must return the affected unit to the place of purchase in exchange for an equal replacement unit. Documentation relating to original owner, purchase date and install location will be required including a service diagnosis of failure. The purchaser is responsible for all costs of warranty service including, but not limited to, any related service labor or diagnosis calls. The purchaser relinquishes all rights to ownership of the returned unit.

SPECIFIC TERMS FOR COMMERCIAL APPLICATIONS:

Limited Warranty Period Applies for all controls, zoning products, humidifiers, dehumidifiers and ERV's, Fans and Air Cleaners.
Limited Warranty Period - five (5) years

Table 1B: Limited Warranty Time Periods for Trane and American Standard Products applied in residential applications.

Electric Heaters for Multi-Position Air Handlers

BAYEA, BAYEC, BAYHTR15, BAYHTR35, BAYHTRM5
Limited Warranty Period - Original Purchaser: ten (10) years

Optional Accessories for Multi-Position Air Handlers

UVC LIGHTS: BAYUVC
Limited Warranty Period - Original Purchaser: Ballast - ten (10) years, Bulbs - one (1) year

COMPRESSOR CONTROL MODULE: BAY24CCVK

Limited Warranty Period - Original Purchaser: ten (10) years

Hydronic Heaters for Multi-Position Air Handlers BAYWA

Limited Warranty Period - Original Purchaser: ten (10) years

Electric Heaters for Packaged Units

BAYHTRV, BAYHTRC
Limited Warranty Period - Original Purchaser: ten (10) years

Optional Accessories for Packaged Units

UVC LIGHTS: BAYUV
Limited Warranty Period - Original Purchaser: Ballast - ten (10) years, Bulbs - one (1) year

ECONOMIZERS: BAYECON

Limited Warranty Period - Original Purchaser: ten (10) years

MOTORIZED DAMPER: BAYDMPR

Limited Warranty Period - Original Purchaser: ten (10) years

**SPECIFIC TERMS FOR COMMERCIAL APPLICATIONS
SINGLE PHASE and ALL 3-PHASE**

(Models listed in Tables 1, 1B - excluding ductless systems)

Limited Warranty Period: Coil, Parts - one (1) year.
Limited Warranty Period: Compressor - five (5) years.
Limited Warranty Period: Packaged Unit Heat Exchanger - five (5) years.
Limited Warranty Period: For All Heat Exchangers on All Other Furnaces - twenty (20) years.