



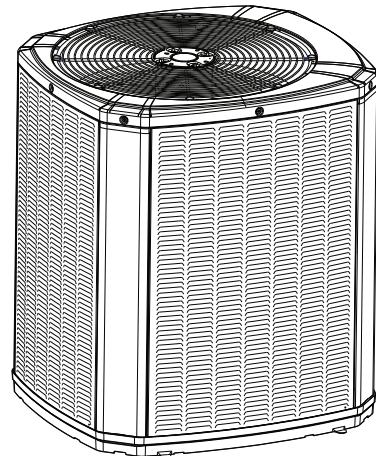
# Product Data

## TRANE Link Variable Speed Air Conditioners

5TTV8X24A1000A  
5TTV8X36A1000A  
5TTV8X48A1000A  
5TTV8X60A1000A



*The Diagnostics Mobile App is available by scanning a QR code above, the one located inside this unit or by searching for the Trane or American Standard Diagnostics App in your App Store®. This system must include a A/T HUI2360A200U thermostat and a TSYS2C60A2VVU system controller to operate and is Link communicating only.*



*Note: "Graphics in this document are for representation only. Actual model may differ in appearance."*



# Mechanical Specification Options

## General

This unit is designed to operate at outdoor ambient temperatures from 55° F to 120° F in cooling. From — 0° F to 66° F in heating (heat pumps only). Only AHRI approved indoor matches are approved for use with these models.

## TRANE Link Air Conditioners

This outdoor unit contains the TRANE Link Air Conditioners digital communication with Plug-n-Play set up.

## Casing

Unit casing is constructed of heavy gauge. G60 galvanized steel and painted with a weather-resistant powder paint on all louvered panels and prepaint on all other panels. Corrosion and weatherproof CMBP-G30 DuraTuff™ base.

## Refrigerant Controls

Refrigeration system controls include condenser fan, compressor inverter drive and high and low pressure switches. A factory supplied, field installed filter is standard.

## Compressor

Inverter driven compressor with variable output capacities. Noise enclosure minimizes sound levels. Compressor protections reduce operating speed and current draw to maintain operation while protecting the compressor.

## Condenser Coil

The Spine Fin™ outdoor coil provides low airflow resistance and efficient heat transfer. The coil is protected on all four sides by louvered panels.

## Low Ambient Cooling

As manufactured, this system has built in freeze protection that will allow cooling operation below 55°F but will reduce capacity or shut down completely to prevent operation under adverse conditions.

## Comfort Control

This system must include a A/T HUI2360A200U thermostat and a TSYS2C60A2VVU system controller to operate and is Link communicating only.



# Product Specifications

## Air Conditioner Models

<b>OUTDOOR UNIT</b> <sup>(a) (b)</sup>	5TTV8X24A	5TTV8X36A	5TTV8X48A	5TTV8X60A
POWER CONNS. — V/PH/HZ <sup>(c)</sup>	208/230/1/60	208/230/1/60	208/230/1/60	208/230/1/60
MIN. BRCH. CIR. AMPACITY	19.0	27.0	36.0	43.0
BR. CIR. PROT. RTG. — MAX. (AMPS)	30	40	50	60
<b>COMPRESSOR</b>	ROTARY	ROTARY	ROTARY	ROTARY
NO. USED — NO. SPEEDS	1-VARIABLE	1-VARIABLE	1-VARIABLE	1-VARIABLE
MRC	17.8	27.1	39.2	46.1
<b>FACTORY INSTALLED</b>				
START COMPONENTS <sup>(d)</sup>	NA	NA	NA	NA
INSULATION/SOUND BLANKET	YES	YES	YES	YES
COMPRESSOR HEAT	YES	YES	YES	YES
<b>OUTDOOR FAN</b>				
DIA. (IN.) — NO. USED	23 - 1	23 - 1	27.5 - 1	27.5 - 1
TYPE DRIVE — NO. SPEEDS	DIRECT - VARIABLE	DIRECT - VARIABLE	DIRECT - VARIABLE	DIRECT - VARIABLE
NO. MOTORS — HP	1 - 1/3	1 - 1/3	1 - 1/2	1 - 1/2
MOTOR SPEED R.P.M.	200 - 1200	200 - 1200	200 - 1200	200 - 1200
VOLTS/PH/HZ	245-385/3/60	245-385/3/60	245-385/3/60	245-385/3/60
MOC	1.5	1.5	2.3	2.3
<b>OUTDOOR COIL — TYPE</b>	SPINE FIN™	SPINE FIN™	SPINE FIN™	SPINE FIN™
ROWS — F.P.I.	1 - 24	1 - 24	1 - 24	1 - 24
FACE AREA (SQ. FT.)	19.77	19.77	27.87	27.87
TUBE SIZE (IN.)	3/8	3/8	3/8	3/8
<b>REFRIGERANT</b>	R-454B	R-454B	R-454B	R-454B
LBS. — R-454B (O.D. UNIT) <sup>(e)</sup>	6 lb - 8 oz	6 lb - 7 oz	9 lb - 7 oz	9 lb - 10 oz
FACTORY SUPPLIED	YES	YES	YES	YES
RATED LINE SIZE — IN. O.D. GAS <sup>(f)</sup>	1/2	5/8	3/4	3/4
RATED LINE SIZE — IN. O.D. LIQ. <sup>(f)</sup>	5/16	5/16	5/16	5/16
<b>CHARGING SPECIFICATIONS</b>				
SUBCOOLING	10°	10°	10°	10°
<b>DIMENSIONS</b>	H X W X D	H X W X D	H X W X D	H X W X D
CRATED (IN.)	46 X 30 X 33	46 X 30 X 33	46 X 35 X 38	46 X 35 X 38
<b>WEIGHT</b>				
SHIPPING (LBS.)	197	210	251	261
NET (LBS.)	176	189	226	236

<sup>(a)</sup> Certified in accordance with the Air-Source Unitary Air-conditioner Equipment certification program, which is based on AHRI standard 210/240.

<sup>(b)</sup> Rated in accordance with AHRI standard 270/275.

<sup>(c)</sup> Calculated in accordance with Natl. Elec. Codes. Use only HACR circuit breakers or fuses.

<sup>(d)</sup> NA means no start components. Yes means quick start kit components. PTC means positive temperature coefficient starter.

<sup>(e)</sup> This value approximate. For more precise value see unit nameplate.

<sup>(f)</sup> The maximum length of refrigerant lines from outdoor to indoor varies depending on application. See Installer's Guide Table 4 for allowable applications.



# Sound Data

Model	Mode	Speed	A-Weighted Sound Power Level [dB(A)]	Full Octave Sound Power [dB]							
				63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
5TTV8X24A	Cool	Min	55	67.2	51.8	55.0	55.3	47.6	40.1	37.2	36.7
	Cool	Max	67	72.5	65.6	62.5	67.4	62.5	53.5	50.0	45.4
5TTV8X36A	Cool	Min	58	68.3	58.0	59.3	54.6	53.0	48.0	43.7	41.9
	Cool	Max	74	73.5	75.0	70.2	74.1	68.1	61.7	59.7	52.8
5TTV8X48A	Cool	Min	59	68.6	56.3	65.3	53.6	50.7	45.1	37.3	37.4
	Cool	Max	74	83.9	76.7	73.2	72.7	69.0	64.2	59.2	50.3
5TTV8X60A	Cool	Min	66	64.5	57.8	67.7	64.9	62.7	50.4	41.5	42.7
	Cool	Max	76	77.0	80.8	76.0	75.3	70.1	64.0	62.3	54.7

**Note:** Rated in accordance with AHRI Standard 270.



## Optional Accessories:

Rubber Isolator Kit	BAYISLT101
Snow Leg — Base & Cap 4" High	BAYLEGS002
Snow Leg — 4" Extension	BAYLEGS003
SmartCharge™ Tool	BAYCAKT002
Extreme Condition Mounting Kit	BAYECMT023
Refrigerant Lineset <sup>(a)</sup>	

<sup>(a)</sup> 25, 30, 35 and 50 foot linesets available. For a complete listing of lineset options available from equipment or supply stores, refer to the Trane Residential and Light Commercial Product Handbook.

## General Data

### AHRI STANDARD 210/240 RATING CONDITIONS

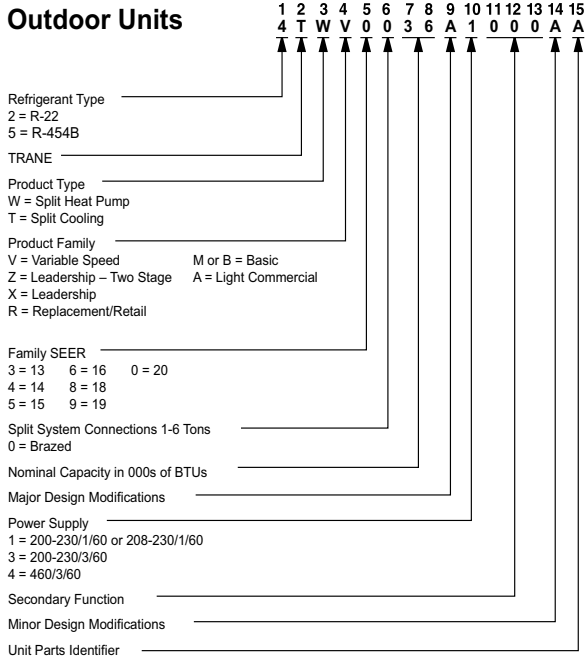
- Cooling 80°F DB, 67°F WB air entering indoor coil, 95°F DB air entering outdoor coil.
- High Temperature Heating 47°F DB, 43°F WB air entering outdoor coil, 70°F DB entering indoor coil.
- Low Temperature Heating 17°F DB, 15°F WB air entering outdoor coil, 70°F DB air entering indoor coil.
- Rated indoor airflow for heating is the same as for cooling.

**AHRI STANDARD 270 RATING CONDITIONS** — (Noise rating numbers are determined with the unit in cooling operation) Standard Noise Rating number is at 95°F outdoor air.

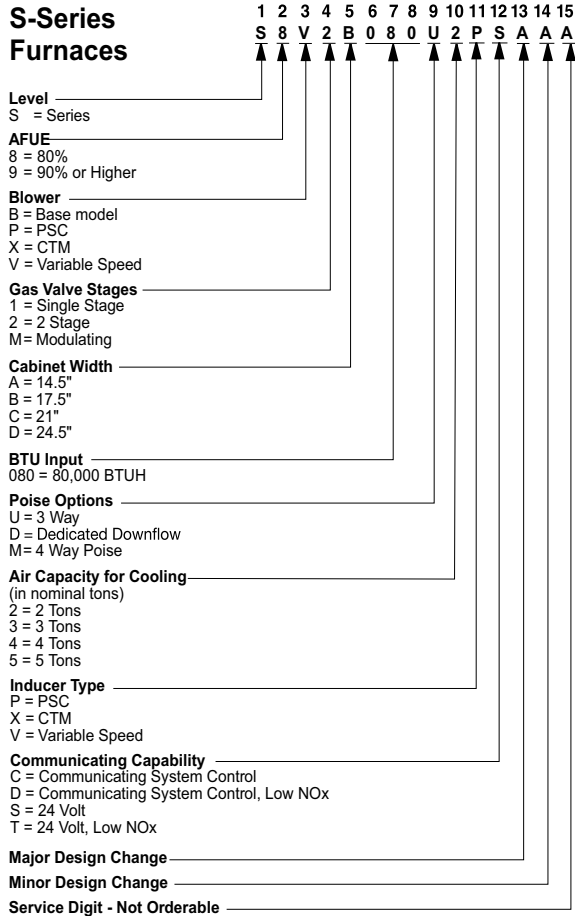


# Model Nomenclature

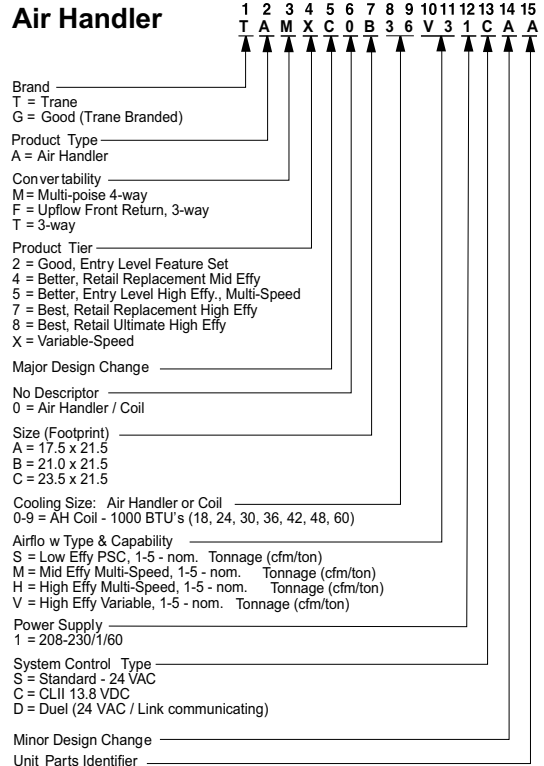
## Outdoor Units



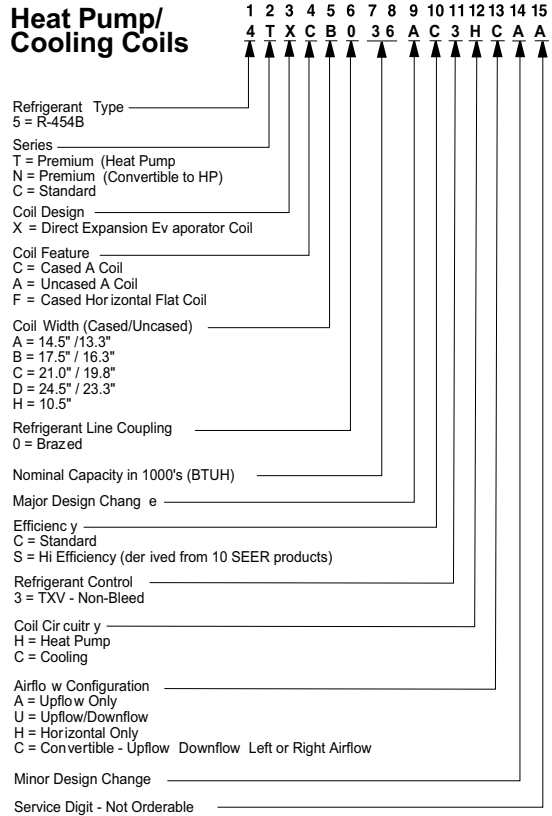
## S-Series Furnaces



## Air Handler



## Heat Pump/Cooling Coils



# Wiring

## LEGEND

24 V FACTORY WIRING  
 24 V FIELD WIRING  
 FOR ROTARY COMPRESSOR WIRING  
 MAGNETIC COIL  
 EARTH GROUND  
 PROTECTIVE EARTH GROUND  
 WIRE NUT OR TERMINAL  
 THERMISTOR  
 INTERNAL OVERLOAD PROTECTION  
 PRESSURE ACTUATED SWITCH  
 RESISTOR OR HEATING ELEMENT  
 MOTOR WINDING  
 SHIELDED CABLE  
 OPTIONAL

**POLE PLUG FEMALE HOUSING (MALE TERMINALS)**  
 POL-PLUG FEMALE HOUSING (MALE TERMINALS)  
**POLE PLUG MALE HOUSING (FEMALE TERMINALS)**  
 POLE PLUG MALE HOUSING (FEMALE TERMINALS)

**COLOUR OF WIRE**  
 BK BLACK RD RED OR ORANGE  
 BL BLUE WH WHITE GR GREEN  
 BR BROWN GRN GRN GRN  
 PK PINK DR DRN DRN DRN DRN

**COLOUR OF WIRE**  
 BV/BL  
 BK BLACK RD RED OR ORANGE  
 BL BLUE WH WHITE GR GREEN  
 BR BROWN GRN GRN GRN  
 PK PINK DR DRN DRN DRN

CBS - COIL BOTTOM SENSOR  
 CDA - COMM DISPLAY ASSEMBLY  
 EV - ELECTRONIC EXP VALVE  
 HPCO - HIGH PRESSURE CUTOFF SWITCH  
 HPT - HIGH PRESSURE TRANSDUCER  
 ODS - OUTDOOR TEMPERATURE SENSOR  
 SP-TRD - SWITCH OVER VALVE SOLENOID  
 SC/LSDY - SWITCH OVER VALVE SOLENOID  
 STS - SUCTION TEMPERATURE SENSOR  
 PWM - PULSE WIDTH MODULATED COIL  
 DTS - DISCHARGE TEMPERATURE SENSOR  
 T9 - TERMINAL BLOCK  
 PCS - PERMANENT SPLIT CAPACITOR MOTOR COIL  
 CS - CHARGE SOLENOID  
 LS - LOAD SHED  
 LTS - LIQUID TEMPERATURE SENSOR  
 AAC - APPLICATION ORIENTED CONTROL  
 MOC - MOTOR ORIENTED CONTROL  
 LP-TRD - LIQUID PRESSURE TRANSDUCER

- NOTES:
1. BE SURE POWER SUPPLY AGREES WITH EQUIPMENT NAMEPLATE.
  2. POWER WIRING AND GROUNDING OF EQUIPMENT MUST COMPLY WITH LOCAL CODES.
  3. LOW VOLTAGE WIRING TO BE NO. 18 AWG MINIMUM CONDUCTOR.
  4. \*ONLY USED ON HEAT PUMP MODELS AND NOT ON AC UNITS.
- FOR CANADIAN INSTALLATIONS  
POUR INSTALLATIONS CANADIENNES
- CAUTION: NOT SUITABLE FOR USE ON SYSTEMS EXCEEDING 150V-TO-GROUND ATTENTION: NE CONVIENT PAS AUX INSTALLATIONS DE PLUS DE 150 V A LA TERRE

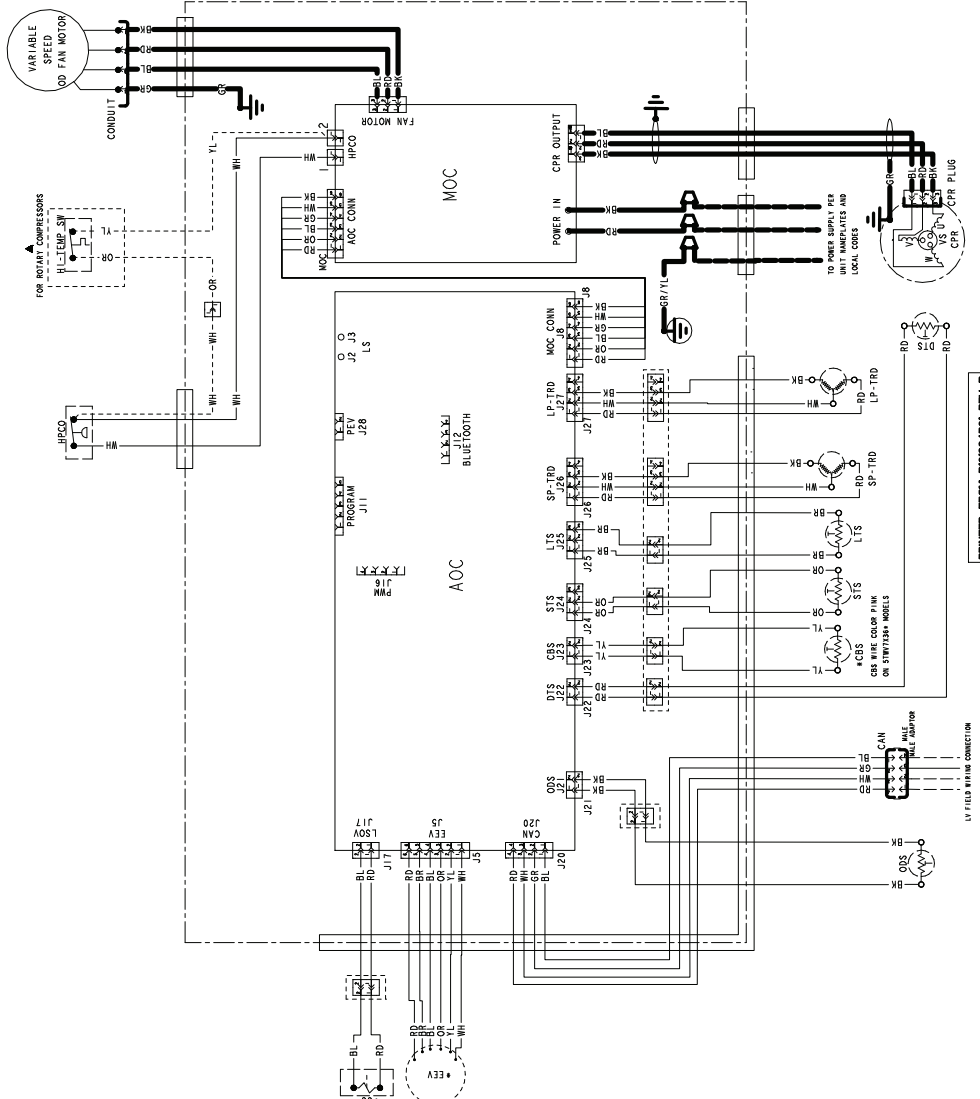
**⚠ WARNING**

HAZARDOUS VOLTAGE!  
DISCONNECT ALL ELECTRICAL POWER INCLUDING REMOTE DISCONNECTERS BEFORE SERVICING. FAILURE TO DISCONNECT POWER BEFORE SERVICING CAN CAUSE SEVERE PERSONAL INJURY OR DEATH.

**⚠ CAUTION**

USE COPPER CONDUCTORS ONLY!  
DO NOT ACCEPT SUBSTITUTES TO ACCEPT OTHER TYPES OF CONDUCTORS. FAILURE TO DO SO MAY CAUSE DAMAGE TO THE EQUIPMENT.

FCC LABEL - SEE NOTE



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