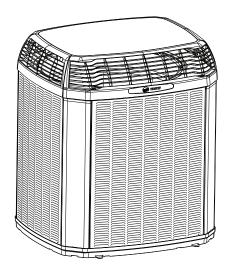


Product and Submittal Data

20 TruComfort™ Variable Speed Heat Pumps with WeatherGuard™

5TWV0X24A1000A/B 5TWV0X36A1000A/B 5TWV0X48A1000A/B 5TWV0X60A1000A/B





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



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.





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Data Notes

This document supersedes and includes data from the documents listed below.

Table 1. Data notes

Literature Number	Title
ODR-PRD003*-EN	Link Variable Speed Heat Pumps 5TWV0 Product Data
TH02-PRQ001*-EN	Trane Link Variable Speed Air Conditioners: 5TWV0X24A1000A Submittal
TH03-PRQ001*-EN	Trane Link Variable Speed Air Conditioners: 5TWV0X36A1000A Submittal
TH04-PRQ001*-EN	Trane Link Variable Speed Air Conditioners: 5TWV0X48A1000A Submittal
TH06-PRQ001*-EN	Trane Link Variable Speed Air Conditioners: 5TWV0X60A1000A Submittal

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Model Nomenclature

Outdoor Units

Digit 1 — Refrigerant Type	Digit 6 — Field Connection
5 = R-454B	0 = Brazed5 = Mechanical
Digit 2 — Brand	X = Link™
T = Trane	Digit 7, 8 — Nominal Tonnage
	12 = 1.0
Digit 3 — System Type	18 = 1.5
	19 = 1.5
C = Cold Climate Heat Pump	24 = 2.0
T = AC	25 = 2.0
W = HP	30 = 2.5
Digit 4 — Product Family	31 = 2.5
9	36 = 3.0
A = Light Commercial	37 = 3.0
B = XB	42 = 3.5
R = Wire Top Grille	43 = 3.5
V = VSPD	48 = 4.0
X = WeatherGuard Top	49 = 4.0
·	60 = 5.0
Digit 5 — Nominal Rated SEER2	61 = 5.0
	72 = 6.0
0 = 20 SEER2	Digit 9 — Major Design Change
3 = 13 SEER2	_igito imajo: _co.g.: c.i.agc
4 = 14 SEER2	A Thru Z Mode = No F, I, 0
5 = 15 SEER2	
6 = 16 SEER2	
7 = 17 SEER2	
8 = 18 SEER2	

Digit 10 — Power Supply (Voltage/Phz/Hz) **1** = 200-208-230/1/60 **3** = 200-230/3/60 **4** = 460/3/60 **5** = 400/3/60 **A** = 220-240/1/50 **D** = 380-415/3/50 Digit 11, 12, 13 — Other Functions **000** = Typical-no meaning $\mathbf{B} = XB$ **R** = Wire Top Grille V = VSPD **X** = WeatherGuard Top Digit 14 — Minor Design Change A Thru Z Mode = No F, I, 0 Digit 14 — Service Digit - Not Orderable A Thru Z Mode = No F, I, 0



General Data

AHRI standard 210/240 rating conditions:

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

AHRI standard 270 rating conditions:

The noise rating numbers are determined with the unit in cooling operation. Standard Noise Rating number is at 95°F outdoor air.



Product Specifications

Table 2. Models 5TWV0X24A1000A, 5TWV0X24A1000B, 5TWV0X36A1000A, and 5TWV0X36A1000B

Outdoor Unit (a) (b)	5TWV0X24A1000A	5TWV0X24A1000B	5TWV0X36A1000A	5TWV0X36A1000B		
Power Conns. — V/Ph/Hz (c)	208/230/1/60	208/230/1/60	208/230/1/60	208/230/1/60		
Min. Brch. Cir. Ampacity	19	19	26	26		
Br. Cir. Prot. Rtg. — Rec/ Max. (Amps)	30	20/30	40	30/40		
Compressor	Rotary	Rotary	Scroll	Scroll		
No. Used — No. Speeds	1-Variable	1-Variable	1-Variable	1-Variable		
MRC	17.8	17.8	18	18		
Factory Installed						
Start Components (d)	No	No	No	No		
Insulation/Sound Blanket	Yes	Yes	Yes	Yes		
Compressor Heat	Yes	Yes	Yes	Yes		
Outdoor Fan				<u> </u>		
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		
Outdoor Coil — Type	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	30.8	30.8		
Tube Size (In.)	3/8	3/8	3/8	3/8		
Refrigerant	R-454B	R-454B	R-454B	R-454B		
Lbs. — R-454B (O.D. Unit) (e)	6 Lb-8 Oz	6 Lb-8 Oz	9 Lb-8 Oz	9 Lb-8 Oz		
Factory Supplied	Yes	Yes	Yes	Yes		
Rated Line Size — In. O.D. Gas ^(f)	1/2	1/2	5/8	5/8		
Rated Line Size — In. O.D. Liq. ^(f)	5/16	5/16 5/16		5/16		
Charging Specifications						
Subcooling	10°	10°	8°	8°		
Dimensions	HxWxD	HxWxD	HxWxD	HxWxD		
Crated (In.)	50 x 30 x 33	50 x 30 x 33	55 x 35 x 38	55 x 35 x 38		
Weight				'		
Shipping (Lbs.)	211	211	248	248		
Net (Lbs.)	192	192	222	222		
Optional Accessories						

Table 2. Models 5TWV0X24A1000A, 5TWV0X24A1000B, 5TWV0X36A1000A, and 5TWV0X36A1000B (continued)

Outdoor Unit (a) (b)	5TWV0X24A1000A	5TWV0X24A1000B	5TWV0X36A1000A	5TWV0X36A1000B	
Rubber Isolator Kit	BAYISLT101	BAYISLT101	BAYISLT101	BAYISLT101	
Snow Leg — Base and Cap 4-in. High	BAYLEGS002	BAYLEGS002	BAYLEGS002	BAYLEGS002	
Snow Leg — 4-in. Extension	BAYLEGS003	BAYLEGS003	BAYLEGS003	BAYLEGS003	
SmartCharge™ Tool	BAYCAKT002	BAYCAKT002	BAYCAKT002	BAYCAKT002	
Extreme Condition Mounting Kit	BAYECMT023	BAYECMT023	BAYECMT023	BAYECMT023	
Refrigerant Lineset (g)		-	_		

⁽a) Certified in accordance with the Unitary Air-conditioner equipment certification program which is based on AHRI standard 210/240.

Table 3. Models 5TWV0X48A1000A, 5TWV0X48A1000B, 5TWV0X60A1000A, and 5TWV0X60A1000B

Outdoor Unit (a) (b)	5TWV0X48A1000A	5TWV0X48A1000B	5TWV0X60A1000A	5TWV0X60A1000B	
Power Conns. — V/Ph/Hz (c)	208/230/1/60	208/230/1/60	208/230/1/60	208/230/1/60	
Min. Brch. Cir. Ampacity	32	32	43	40	
Br. Cir. Prot. Rtg. — Rec/ Max. (Amps)	50	35/50	60	40/60	
Compressor	Scroll	Scroll	Rotary	Rotary	
No. Used — No. Speeds	1-Variable	1-Variable	1-Variable	1-Variable	
MRC	22.4	22.4	46.1	46.1	
Factory Installed					
Start Components (d)	No	No	No	No	
Insulation/Sound Blanket	Yes	Yes	Yes	Yes	
Compressor Heat	Yes	Yes Yes		Yes	
Outdoor Fan					
Dia. (In.) — No. Used	27.5-1	27.5-1	27.5-1	27.5-1	
Type Drive — No. Speeds	Direct-Variable	Direct-Variable	Direct-Variable	Direct-Variable	
No. Motors — Hp	1-1/2	1-1/2	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	2.3	2.3	2.3	2.3	
Outdoor Coil — Type	Spine Fin™	Spine Fin™	Spine Fin™	Spine Fin™	
Rows — F.P.I.	2-24	2-24	2-24	2-24	
Face Area (Sq. Ft.)	30.8	30.8	30.8	30.8	
Tube Size (In.)	3/8	3/8	3/8	3/8	
Refrigerant	R-454B	R-454B	R-454B	R-454B	
Lbs. — R-454B (O.D. Unit) (e)	11 Lb-0 Oz	11 Lb-0 Oz	11 Lb-10 Oz	11 Lb-10 Oz	

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

⁽c) Calculated in accordance with N.E.C. Only use HACR circuit breakers or fuses.

⁽d) No means no start components. Yes means quick start kit components. PTC means positive temperature coefficient starter. Optional kit shown.

⁽e) This value approximate. For more precise value see unit nameplate.

⁽f) Reference the outdoor unit ship-with literature for refrigerant piping length and lift guidelines. Reference the refrigerant piping software pub # 32-3312-xx or Refrigerant Piping Manual for Small Split Cooling and Heat Pump Systems Application Guide (SS-APG006*-EN) for long line sets or specialty applications (xx denotes latest revision).

^{(9) 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.



Product Specifications

Table 3. Models 5TWV0X48A1000A, 5TWV0X48A1000B, 5TWV0X60A1000A, and 5TWV0X60A1000B (continued)

Outdoor Unit (a) (b)	5TWV0X48A1000A	5TWV0X48A1000B	5TWV0X60A1000A	5TWV0X60A1000B	
Factory Supplied	Yes	Yes	Yes	Yes	
Rated Line Size — In. O.D. Gas ^(f)	7/8	7/8	3/4	3/4	
Rated Line Size — In. O.D. Liq. ^(f)	5/16	5/16 5/16		5/16	
Charging Specifications					
Subcooling	8°	8°	8°	8°	
Dimensions	H x W x D	H x W x D	H x W x D	H x W x D	
Crated (In.)	55 x 35 x 38				
Weight					
Shipping (Lbs.)	268	268	306	306	
Net (Lbs.)	242	242	280	280	
Optional Accessories					
Rubber Isolator Kit	BAYISLT101	BAYISLT101	BAYISLT101	BAYISLT101	
Snow Leg — Base and Cap 4-in. High	BAYLEGS002	BAYLEGS002	BAYLEGS002	BAYLEGS002	
Snow Leg — 4-in. Extension	BAYLEGS003	BAYLEGS003	BAYLEGS003	BAYLEGS003	
SmartCharge™ Tool	BAYCAKT002	BAYCAKT002	BAYCAKT002	BAYCAKT002	
Extreme Condition Mounting Kit	BAYECMT023	BAYECMT023	BAYECMT023	BAYECMT023	
Refrigerant Lineset (g)			_		

⁽a) Certified in accordance with the Unitary Air-conditioner equipment certification program which is based on AHRI standard 210/240.

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

⁽c) Calculated in accordance with N.E.C. Only use HACR circuit breakers or fuses.

⁽d) No means no start components. Yes means quick start kit components. PTC means positive temperature coefficient starter. Optional kit shown.

⁽e) This value approximate. For more precise value see unit nameplate.

⁽f) Reference the outdoor unit ship-with literature for refrigerant piping length and lift guidelines. Reference the refrigerant piping software pub # 32-3312-xx or Refrigerant Piping Manual for Small Split Cooling and Heat Pump Systems Application Guide (SS-APG006*-EN) for long line sets or specialty applications (xx denotes latest revision).

^{9 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.



Sound Data

Table 4. Models 5TWV0X24A, 5TWV0X36A, 5TWV0X48A, and 5TWV0X60A

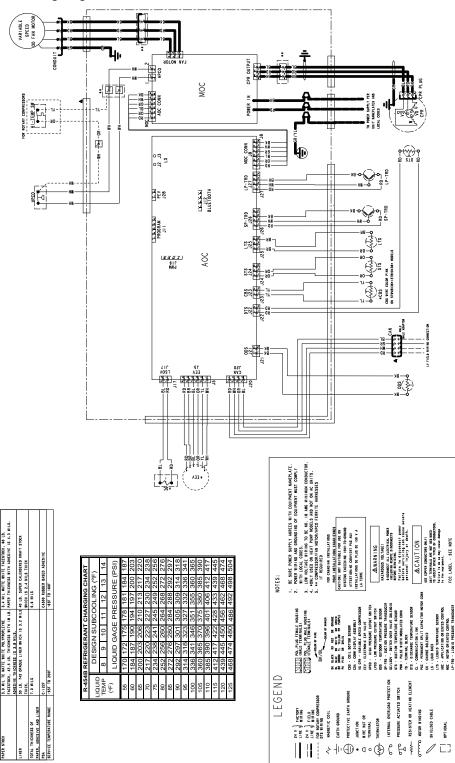
			A-Weighted Sound	Full Octave Sound Power [dB]							
Model	Mode Speed		Power Level [dB (A)]	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
	Cool	Min	52	64.2	48.8	52.0	52.3	44.6	37.1	34.2	33.7
5TWV0X24A	Cool	Max	64	69.5	62.6	59.5	64.4	59.5	50.5	47.0	42.4
51WV0X24A	Heat	Min	51	61.4	45.8	50.9	49.9	44.9	39.2	37.6	38.0
	Heat	Max	71	73.9	70.7	68.7	70.0	67.2	59.9	55.2	49.8
	Cool	Min	53	63.6	51.2	52.5	51.5	48.2	43.4	34.7	38.3
5TWV0X36A	Cool	Max	69	82.2	70.3	68.3	65.6	65.5	58.3	53.3	48.9
	Heat	Min	55	63.8	52.9	55.9	53.4	49.1	44.4	40.4	42.1
	Heat	Max	74	79.0	77.8	75.0	71.8	69.9	63.3	59.5	53.7
	Cool	Min	56	64.8	54.6	56.2	53.6	52.4	47.4	38.0	33.0
5T\A\\\(0\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Cool	Max	73	79.7	74.4	72.7	71.3	68.4	63.7	58.2	49.8
5TWV0X48A	Heat	Min	57	64.8	54.9	56.4	53.6	51.3	48.7	45.5	40.1
	Heat	Max	75	82.1	75.5	74.5	72.2	69.7	65.4	61.2	52.8
	Cool	Min	63	62.1	56.5	60.2	61.7	61.6	45.4	37.4	38.2
5TWV0X60A	Cool	Max	74	75.5	74.2	73.1	73.5	68.6	63.6	59.2	51.8
AUOXUVVIC	Heat	Min	61	64.6	56.0	57.4	58.2	59.1	46.4	42.6	39.2
	Heat	Max	73	87.3	77.8	72.0	71.2	67.2	63.3	60.4	52.1

Note: Rated in accordance with AHRI Standard 270.



Wiring Diagram

Figure 1. Wiring diagram



WOTE.

WITH THE PAYMENTING STITIAGE FOR USE IN OUTDOOR TOWNOWMENT.

AMEN'S PETSONG STREAM AND THE WILLIAGE PAYME SUTUMAL TOW

OUTDOOR PHILICIPAGE ON PAINTED ON GALVANIED SHETH HETA, SHRACES,

SITE: 8 11/2" 1 11.



Dimensional Data

Figure 2. Dimensional drawing

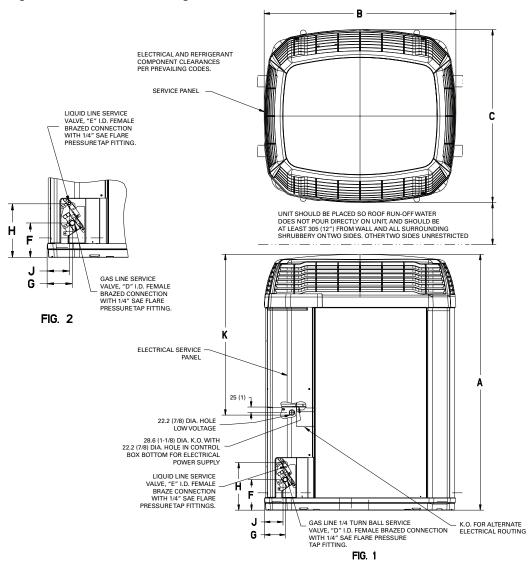


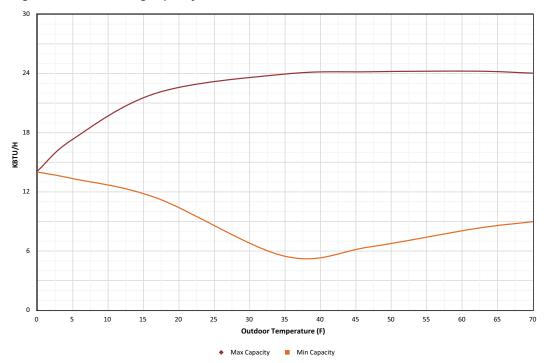
Table 5. Dimensions (inch)

Model	Base	Α	В	С	D	Е	F	G	Н	J	K
5TWV0X24A	3	1178.1 (46.4)	829 (32-5/8)	756 (29-3/4)	13 (1/2)	8 (5/16)	143 (5-5/8)	92 (3-5/8)	210 (8-1/4)	79 (3-1/8)	973.0 (38.3)
5TWV0X36A	4	1307.0 (51.4)	946 (37-1/4)	870 (34-1/4)	16-5/8	8-5/16	143 (5-5/8)	92 (3-5/8)	210 (8-1/4)	79 (3-1/8)	994.1 (39.1)
5TWV0X48A	4	1307.0 (51.4)	946 (37-1/4)	870 (34-1/4)	22-7/8	8-5/16	143 (5-5/8)	92 (3-5/8)	210 (8-1/4)	79 (3-1/8)	994.1 (39.1)
5TWV0X60A	4	1307.0 (51.4)	946 (37-1/4)	870 (34-1/4)	22-7/8	8-5/16	143 (5-5/8)	92 (3-5/8)	210 (8-1/4)	79 (3-1/8)	994.1 (39.1)



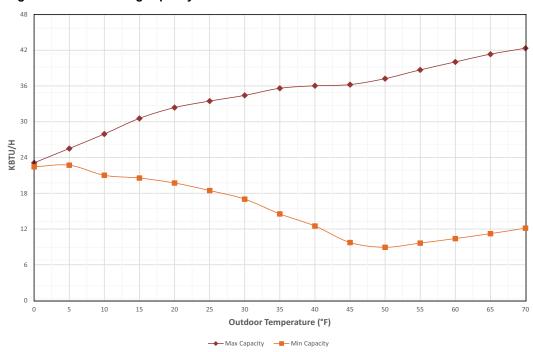
Balance Point Heat Capacity Worksheets

Figure 3. 2-ton heating capacity - model 5TWV0X24A1



Note: Based on 70°F Indoor Return Air.

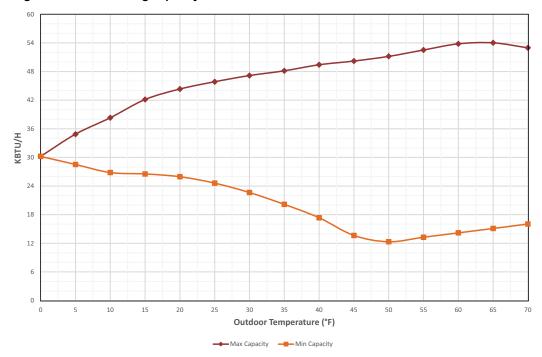
Figure 4. 3-ton heating capacity - model 5TWV0X36A1



Note: Based on 70°F Indoor Return Air.

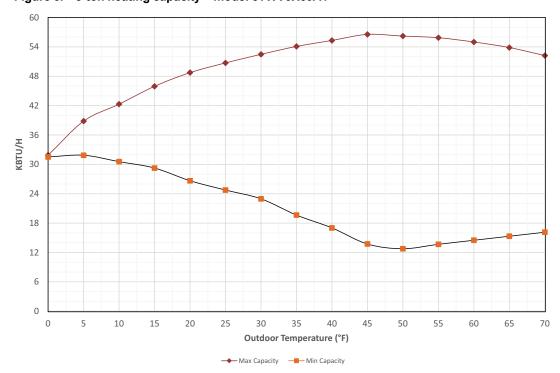


Figure 5. 4-ton heating capacity - model 5TWV0X48A1



Note: Based on 70°F Indoor Return Air.

Figure 6. 5-ton heating capacity - model 5TWV0X60A1



Note: Based on 70°F Indoor Return Air.



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.

WeatherGuard™II Top Shields Unit.

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.

Seacoast Shield.

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.



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