

Product Data

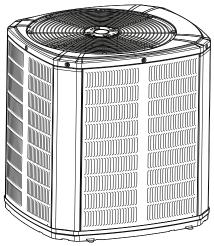
American Standard Link Variable Speed Air Conditioners

5A7V8X24A1000A 5A7V8X36A1000A 5A7V8X48A1000A 5A7V8X60A1000A



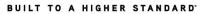


The Diagnostics Mobile App is available by scanning a QR code above, the one located inside this unit or by searching for the Trane or American Standard Diagnostics App in your App Store®. This system must include a A/T HUI2360A200U thermostat and a TSYS2C60A2VVU system controller to operate and is Link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



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

12-1445-1A-EN





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 $\overline{66}^{\circ}$ F in heating (heat pumps only). Only AHRI approved indoor matches are approved for use with these models.

American Standard Link Air Conditioners

This outdoor unit contains the American Standard 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 weatherresistant powder paint on all louvered panels and prepaint on all other panels. Corrosion and weatherproof CMBP-G30 DuraBase[™].

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.



HEATING & AIR CONDITIONING

Product Specifications

Air Conditioner Models

OUTDOOR UNIT (a) (b)	5A7V8X24A	5A7V8X36A	5A7V8X48A	5A7V8X60A	
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	19.0	27.0	36.0	5.0 43.0	
BR. CIR. PROT. RTG. — MAX. (AMPS)	30	40	50	60	
COMPRESSOR	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	
FACTORY INSTALLED					
START COMPONENTS (d)	NA	NA	NA	NA	
INSULATION/SOUND BLANKET	YES	YES	YES	YES	
COMPRESSOR HEAT	YES	YES	YES	YES	
OUTDOOR FAN					
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	
МОС	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	27.87	27.87	
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 – 7 oz	9 lb – 7 oz	9 lb – 10 oz	
FACTORY SUPPLIED	YES	YES	YES	YES	
RATED LINE SIZE — IN. O.D. GAS ^(f)	1/2	5/8	3/4	3/4	
RATED LINE SIZE — IN. O.D. LIQ. ^(f)	5/16	5/16	5/16	5/16	
CHARGING SPECIFICATIONS					
SUBCOOLING	10°	10°	10°	10°	
DIMENSIONS	HXWXD	HXWXD	HXWXD	HXWXD	
CRATED (IN.)	46 X 30 X 33	46 X 30 X 33	46 X 35 X 38	46 X 35 X 38	
WEIGHT					
SHIPPING (LBS.)	197	210	251	261	
NET (LBS.)	176	189	226	226 236	

(a) Certified in accordance with the Air-Source 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 Natl. Elec. Codes. Use only HACR circuit breakers or fuses.

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

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

(f) 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

		Mode Speed	A-Weighted Sound Power Level [dB(A)]	Full Octave Sound Power [dB]							
Model N	Mode			63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
	Cool	Min	55	67.2	51.8	55.0	55.3	47.6	40.1	37.2	36.7
5A7V8X24A	Cool	Max	67	72.5	65.6	62.5	67.4	62.5	53.5	50.0	45.4
	Cool	Min	58	68.3	58.0	59.3	54.6	53.0	48.0	43.7	41.9
5A7V8X36A	Cool	Max	74	73.5	75.0	70.2	74.1	68.1	61.7	59.7	52.8
	Cool	Min	59	68.6	56.3	65.3	53.6	50.7	45.1	37.3	37.4
5A7V8X48A	Cool	Max	74	83.9	76.7	73.2	72.7	69.0	64.2	59.2	50.3
5A7V8X60A	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.



HEATING & AIR CONDITIONING

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 ^(a)	

(a) 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
Refrigerant Type
A,T = American Standard
Product Type 6, W = Split Heat Pump 7, T = Split Cooling
Product Family Product Family V = Variable Speed M or B = Basic Z = Leadership – Two Stage A = Light Commercial X = Leadership R = Replacement/Retail
Family SEER 3 = 13 $6 = 16$ $0 = 204 = 14$ $8 = 185 = 15$ $9 = 19$
Split System Connections 1-6 Tons 0 = Brazed
Nominal Capacity in 1000s of BTUs
Major Design Modifications
Power Supply 1 = 200-230/1/60 or 208-230/1/60 3 = 200-230/3/60 4 = 460/3/60
Secondary Function
Minor Design Modifications
Unit Parts Identifier
S-Series 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 Substrate S 8 V 2 B 0 8 0 U 2 P S A A A Furnaces Image: Constraint of the state of t
Level
AFUE
8 = 80% 9 = 90% or Higher
Blower
B = Base model P = PSC X = CTM V = Variable Speed
Gas Valve Stages
Cabinet Width
A = 14.5" B = 17.5" C = 21" D = 24.5"
BTU Input 080 = 80,000 BTUH
Poise Options U = 3 Way D = Dedicated Downflow M= 4 Way Poise
Air Capacity for Cooling
4 = 4 Tons 5 = 5 Tons
Inducer Type
Communicating Capability C = Communicating System Control D = Communicating System Control, Low NOx S = 24 Volt T = 24 Volt, Low NOx
Major Design Change
Minor Design Change
Service Digit - Not Orderable

Air Handler $1 \ 2 \ 3 \ 4 \ 5 \ 6 \ 7 \ 8 \ 9 \ 10 \ 11 \ 12 \ 13 \ 14 \ 15 \ T \ A \ M \ X \ C \ 0 \ B \ 3 \ 6 \ V \ 3 \ 1 \ C \ A \ A \ T \ A \ A \ A \ A \ A \ A \ A$
Brand T = Trane G = Good (Trane Branded)
Product Type
Convertability M = Multi-poise 4-way F = Upflow From Return, 3-way T = 3-way
Product Tier 2 = Good, Entry Level Feature Set 4 = Better, Retail Replacement Mid Effy 5 = Better, Entry Level High Effy, Multi-Speed 7 = Best, Retail Utimate High Effy 8 = Best, Retail Utimate High Effy X = Variable-Speed
Major Design Change
No Descriptor 0 = Air Handler / Coil
Size (Footprint) A = 17.5 x 21.5 B = 21.0 x 21.5 C = 23.5 x 21.5 C = 23.5 x 21.5
Cooling Size: Air Handler or Coil
Airflo w Type & Capability S = Low Effy PSC, 1-5 - nom. Tonnage (cfm/ton) M = Mid Effy Multi-Speed, 1-5 - nom. Tonnage (cfm/ton) H = High Effy Multi-Speed, 1-5 - nom. Tonnage (cfm/ton) V = High Effy Variable, 1-5 - nom. Tonnage (cfm/ton)
Power Supply
System Control Type S = Standard - 24 VAC C = CLII 13.8 VDC D = Duel (24 VAC / Link communicating)
Minor Design Change Unit Parts Identifier
Heat Pump/ Cooling Coils 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 4 T X C B 0 3 6 A C 3 H C A <td< th=""></td<>
Refrigerant Type
Series T = Premium (Heat Pump N = Premium (Convertible to HP) C = Standard
Coil Design X = Direct Expansion Evaporator Coil
Coil Feature C = Case A Coil
A = Uncased A Coil F = Cased Horizontal Flat Coil

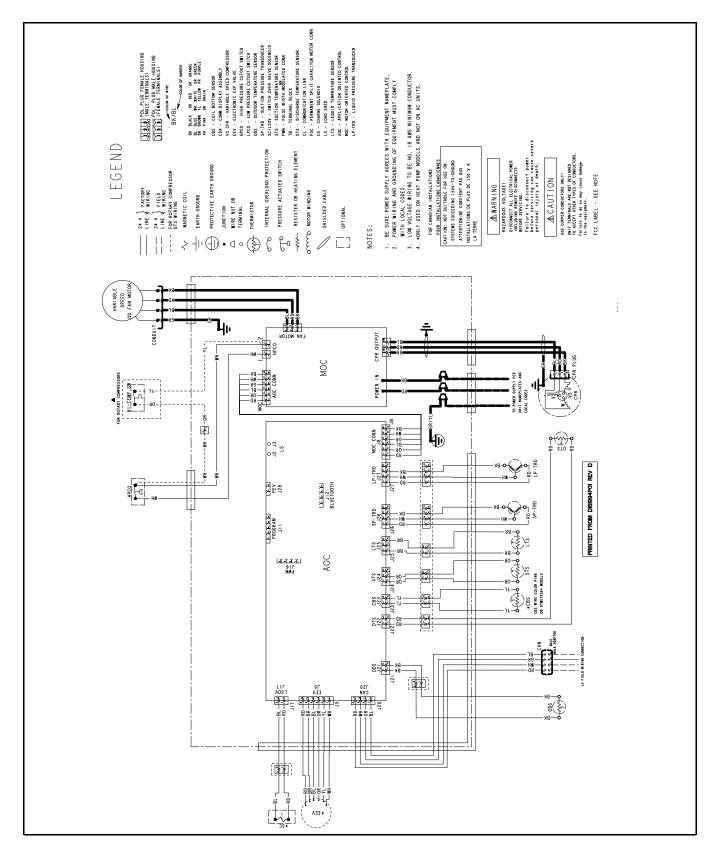
Refrigerant Type 4 = R-454B Series T = Premium (Convertible to HP) C = Standard Coil Design X = Direct Expansion Evaporator Coil Coil Feature C = Case A Coil F = Caseel A Horizontal Flat Coil
A = 14.5"/13.3" A = 14.5"/13.3" B = 17.5"/16.3" C = 21.0"/19.8" D = 24.5"/23.3" H = 10.5" Refrigerant Line Coupling 0 = Brazed
Nominal Capacity in 1000's (BTUH)
Major Design Change
Efficiency C = Standard S = Hi Efficiency (Derived from 10 SEER products) Refrigerant Control 3 = TXV - Non-Bleed
Coil Circuitry H = Heat Pump C = Cooling
Airflow Configuration

Service Digit - Not Orderable _____



HEATING & AIR CONDITIONING

Wiring





About American Standard Heating and Air Conditioning

American Standard has been creating comfortable and affordable living environments for more than a century. For more information, please visit www.americanstandardair.com.



The AHRI Certified mark indicates company participation in the AHRI Certification program. For verification of individual certified products, go to ahridirectory.org.

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12-1445-1A-EN 11 Sep 2024 Supersedes (New)