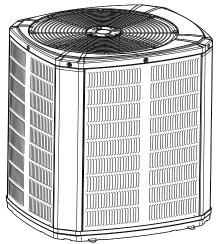
American Standard。 HEATING & AIR CONDITIONING

Product Data

American Standard Link Variable Speed Air Conditioners

4A7V7X24A1000A 4A7V7X36A1000A 4A7V7X48A1000A 4A7V7X60A1000A



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 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.



Mechanical Specification Options

General

This unit is designed to operate at outdoor ambient temperatures from 45° F to 120° F in cooling. From -10° F to 66° 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 scroll compressor with 25 to 100% output capacity on heat pumps and 30 to 100% output capacity on air conditioners. Noise enclosure minimizes sound levels and built in compressor protection protects compressor will 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 45°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

OUTDOOR UNIT (a) (b)	4A7V7X24A1000A	4A7V7X36A1000A	4A7V7X48A1000A	4A7V7X60A1000A
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	19.4	27.0	42.0	46.1
BR. CIR. PROT. RTG. – MAX. (AMPS)	25	30	45	50
COMPRESSOR	SCROLL	SCROLL	SCROLL	SCROLL
NO. USED - NO. SPEEDS	1-VARIABLE	1-VARIABLE	1-VARIABLE	1-VARIABLE
R.L. AMPS ^(d) – L.R. AMPS	11.5 - 10.2	18.1 - 10.2	20.3 - 12.0	27.5 - 12.0
FACTORY INSTALLED				
START COMPONENTS (e)	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
CFM @ 0.0 IN. W.G. (f)	2680	2850	4467	4757
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	208/230/1/60	208/230/1/60	208/230/1/60	208/230/1/60
F.L. AMPS	1.35	1.35	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	23.75	27.87	30.80
TUBE SIZE (IN.)	3/8	3/8	3/8	3/8
REFRIGERANT	R410-A	R410-A	R410-A	R410-A
LBS. — R-410A (O.D. UNIT) (g)	7 lb – 6 oz	8 lb — 13 oz	10 lb — 8 oz	13 lb — 2 oz
FACTORY SUPPLIED	YES	YES	YES	YES
RATED LINE SIZE — IN. O.D. GAS (h)	5/8	3/4	7/8	7/8
RATED LINE SIZE — IN. O.D. LIQ.	3/8 (h)	3/8 (h)	3/8 (h)	3/8 (i)
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	50 X 35 X 38
WEIGHT				
SHIPPING (LBS.)	225	238	268	285
NET (LBS.)	204	217	243	259

(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) This value shown for compressor RLA on the unit nameplate and on this specification sheet is used to compute minimum branch circuit ampacity and max. fuse size. The value shown is the branch circuit selection current.

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

(f) Standard Air - Dry Coil - Outdoor

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

 $^{(h)}\,$ Max. linear length 150 ft.; Max. lift — Suction 50 ft.; Max. lift — Liquid 50 ft.

(i) Max length of refrigerant lines from outdoor to indoor unit MUST NOT exceed 80 feet. The max vertical change MUST NOT exceed 25 feet. See footnote (h) if 7/8" suction line is used.

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Sound Data

Model I			A-Weighted Sound Power Level [dB(A)]	Full Octave Sound Power [dB]								
	Mode	Speed		63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	
	Cool	Min	57	71.2	49.8	51.4	58.3	51.6	44.2	37.4	41.2	
4A7V7X24A	Cool	Max	66	74.8	64.1	61.3	66.2	61.2	56.3	49.4	46.5	
	Cool	Min	56	71.0	53.4	51.2	53.5	51.5	44.6	40.3	41.0	
4A7V7X36A	Cool	Max	71	73.1	70.5	65.8	67.3	66.0	60.9	54.1	50.0	
	Cool	Min	62	70.7	52.5	51.7	55.3	53.4	43.6	35.1	41.6	
4A7V7X48A	Cool	Max	74	75.5	73.6	72.0	72.8	68.7	63.9	58.3	52.1	
	Cool	Min	62	71.7	55.8	56.8	56.7	60.1	44.7	42.3	41.0	
4A7V7X60A	Cool	Max	75	87.8	77.6	75.2	72.2	70.2	64.7	59.0	51.1	
NOTE: Rated in a	accordanc	e with AHRI	I Standard 270				•			•		



Optional Accessories:

Model	4A7V7X24A	4A7V7X36A	4A7V7X48A	4A7V7X60A
Rubber Isolator Kit	BAYISLT101	BAYISLT101	BAYISLT101	BAYISLT101
Snow Leg — Base & Cap 4″ High	BAYLEGS002	BAYLEG2002	BAYLEGS002	BAYLEGS002
Snow Leg — 4" Extension	BAYLEGS003	BAYLEGS003	BAYLEGS003	BAYLEGS003
Extreme Condition Mounting Kit	BAYECMT023	BAYECMT023	BAYECMT004	BAYECMT004
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.

American Standard.

Model Nomenclature

Refrigerant Type
<pre>:= R-22 = R-410A .,T = American Standard .,T = American Standard .,T = American Standard .,T = Split Heat Pump .,T = Split Cooling Product Family = Variable Speed M or B = Basic = Leadership - Two Stage A = Light Commercial := Leadership R = Replacement/Retail ::amily SEER = 13 6 = 16 0 = 20 = 14 8 = 18 = 15 9 = 19 Jplit System Connections 1-6 Tons = Brazed lominal Capacity in 1000s of BTUs Hajor Design Modifications := 200-2301/160 or 208-2301/160 = 200-2301/160 or 208-230 = 200-2301/160 o</pre>
Product Type , W = Split Heat Pump , T = Split Cooling , T = Split Cooling roduct Family / = Variable Speed M or B = Basic = Leadership - Two Stage A = Light Commercial = Leadership = 13 6 = 16 0 = 20 = 14 = 13 6 = 16 0 = 20 = 14 8 = 18 = 15 9 = 19 piplit System Connections 1-6 Tons = Brazed lominal Capacity in 1000s of BTUs Major Design Modifications Power Supply = 200-2301/160 or 208-230/1/60 = 200-2301/160 or 208-230/1/60 = 200-230/160 or 208-230/1/60 S = Series A 4 5 6 7 8 9 10 11 12 13 14 18 Furnaces 1 2 3 4 5 6 7 8 9 10 11 12 13 14 17 S = Series AFUE S = 80% 9 = 90% or Higher
I. W = Split Heat Pump , T = Split Cooling Product Family = Variable Speed M or B = Basic = Leadership – Two Stage A = Light Commercial = Leadership = leadership = Replacement/Retail amily SEER = 13 6 = 16 0 = 20 = 14 8 = 18 = 15 9 = 19 Isologi Modifications = Brazed lominal Capacity in 1000s of BTUs Hajor Design Modifications = 200-2301/160 or 208-2301/160 = 200-2301/160 or 208-230 = 200-200 or 1000 or 208-230 = 200-200 or 1000 or 208-230
Y = Variable Speed M or B = Basic I = Leadership - Two Stage A = Light Commercial I = Leadership Replacement/Retail samily SEER I = 13 6 = 16 I = 15 9 = 19 Split System Connections 1-6 Tons B = Brazed Iominal Capacity in 1000s of BTUs Major Design Modifications Yower Supply = 200-2301/160 = 200-2301/160 or 208-230/1/60 = 200-2303/60 eecondary Function Inor Design Modifications Furnaces S = Series AFUE S = Series AFUE S = 80% 9 = 90% or Higher
= 13 6 = 16 0 = 20 = 14 8 = 18 = 15 9 = 19 split System Connections 1-6 Tons
Split System Connections 1-6 Tons = Brazed Jominal Capacity in 1000s of BTUs Algor Design Modifications Power Supply = 200-2301/160 or 208-230/1/60 = 460/3/60 Becondary Function Inior Design Modifications Inior Design Modifications S-Series Furnaces Image: Series AFUE 8 = 80% 9 = 90% or Higher
Algor Design Modifications Power Supply = 200-230/1/60 or 208-230/1/60 = 200-230/3/60 = 460/3/60 Becondary Function Jinit Parts Identifier S-Series Furnaces I 2 3 4 5 6 7 8 9 10 11 12 13 14 15 S - Series S - Series Furnaces I 2 3 4 5 6 7 8 9 10 11 12 13 14 15 S - Series Furnaces I 3 4 5 6 7 8 9 10 11 12 13 14 15 S - Series Furnaces I 4 4 4 7 4 4 7 S = 8eries AFUE B = 80% 9 = 90% or Higher
bower Supply = 200-2301/60 or 208-230/1/60 = 200-230/3/60 = 460/3/60 Becondary Function Jint Parts Identifier S-Series I 2 3 4 5 6 7 8 9 10 11 12 13 14 15 S-Series 1 2 3 4 5 6 7 8 9 2 P S A A Furnaces I<
Init Parts Identifier S-Series Image: Series Image: Series Series Image: Series AFUE: B = 80% 9 = 90% or Higher
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S-Series 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 Furnaces 5 8 7 2 B 0 8 0 U 2 P S A A A S 8 V 2 B 0 8 0 U 4 A A S 8 8 V 2 B 0 8 0 U 4 A A S 8 8 V 2 B 0 8 0 U 4 A A S 8 8 V 2 B 0 8 0 U 4 A A S 8 8 V 2 B 0 8 0 U 4 A A S 8 8 V 2 B 0 8 0 U 4 A A S 8 8 V 2 B 0 8 0 U 4 A A A S 8 8 0 0 8 0 U 4 A A A S 9 90% or Higher
Blower
BTU Input
U = 3 Way D = Dedicated Downflow M= 4 Way Poise
Air Capacity for Cooling
Inducer Type P = PSC X = CTM V = Variable Speed
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 T A ▲ ▲	3 4 <u>M</u> X ▲ ▲			8 9 <u>3 6</u>	9 10 5 V	$\frac{1112}{31}$	213 <u>C</u>	14 1 A
Brand T = Trane G = Good (Trane Branded)									
Product Type A = Air Handler									
Convertability — M = Multi-poise 4-way F = Upflow Front Return, 3-way T = 3-way									
Product Tier 2 = Good, Entry Level Feature Se 4 = Better, Retail Replacement Mil 5 = Better, Entry Level High Effy., 7 = Best, Retail Replacement High 8 = Best, Retail Ultimate High Effy X = Variable-Speed	t id Effy Multi-Sp h Effy /	eed							
Major Design Change									
No Descriptor 0 = Air Handler / Coil				1					
Size (Footprint) A = 17.5 x 21.5 B = 21.0 x 21.5 C = 23.5 x 21.5									
Cooling Size: Air Handler or Coil 0-9 = AH Coil - 1000 BTU's (18, 2	24 30 36	5 42 4	18 60))					
Airflo w Type & Capability S = Low Effy PSC, 1-5 - nom. To M = Mid Effy Multi-Speed, 1-5 - no H = High Effy Multi-Speed, 1-5 - n V = High Effy Variable, 1-5 - nom. Power Supply	om. To Iom. T	onnage Tonnag	cfm e (cfr	/ton) n/tor)	1)				
1 = 208-230/1/60									
System Control Type	icating)								
Minor Design Change									
Unit Parts Identifier									
Heat Pump/	12	34	56			9 10			
Cooling Coils	4 T	XC	H A	$\frac{3}{1}$	6 4	ÌÌ	3 1		A
0	T	ĪĪ	TI			ΓΤ	Τ	ΓΤ	T
Refrigerant Type —									
4 = R-410A Series									
T = Premium (Heat Pump N = Premium (Convertible to HP) C = Standard									
Coil Design — X = Direct Expansion Evaporator C	Coil	-							
Coil Feature									
C = Case A Coil A = Uncased A Coil									
F = Cased Horizontal Flat Coil									
Coil Width (Cased/Uncased) — A = 14.5"/13.3"			-						
B = 17.5"/16.3" C = 21.0"/19.8"									
D = 24.5"/23.3"									
H = 10.5"								- L	

 C = 24.57/23.3°

 H = 10.5°

 Refrigerant Lilne Coupling

 O = 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

 A = Upflow Only

 U = UpflowOnly

 U = UpflowOnly

 U = UpflowOnly

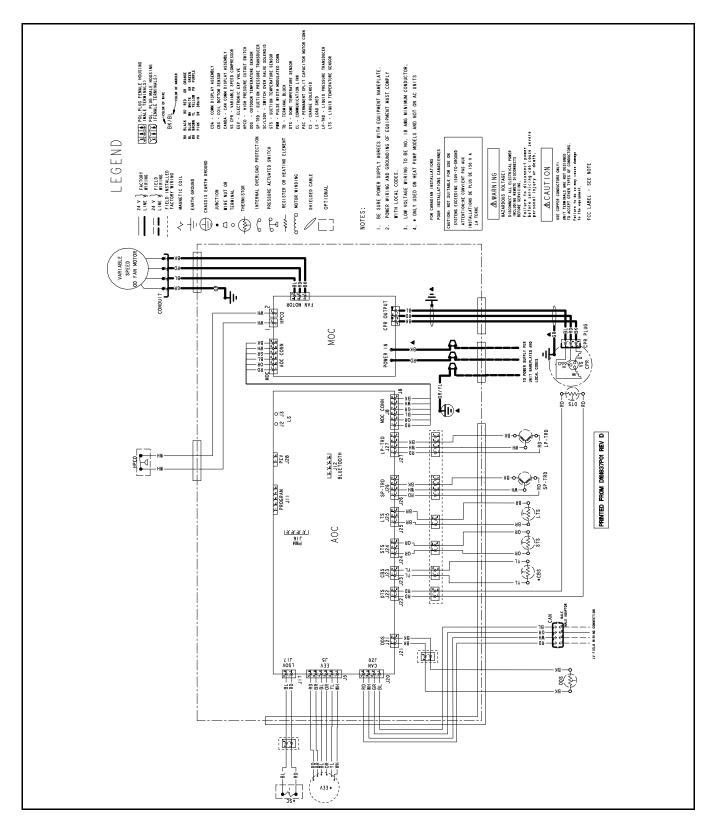
 C = Convertible - Upflow, Downflow, Left or Right Upflow

Minor Design Change

Service Digit - Not Orderable _____

American Standard

Wiring



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About American Standard Heating and Air Conditioning

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