American Standard. HEATING & AIR CONDITIONING

Product Data

American Standard Link or AccuLink™ Variable Speed Air Conditioners

4A7V8X24A1000A 4A7V8X36A1000A 4A7V8X48A1000A 4A7V8X60A1000A



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

12-1413-1A-EN



Mechanical Specification Options

General

This unit is designed to operate at outdoor ambient temperatures from 55° F to 120° F in cooling. From -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 or AccuLink™ Air Conditioners

This outdoor unit contains the American Standard Link or AccuLink™ Air Conditioners digital communication with 2 wire connection to outdoor and 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 contactor 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 55°F but will reduce capacity or shut down completely to prevent operation under adverse conditions.

Comfort Control

The 1050/950/850 Control is required and provides Plug-n-Play setup and 3 wire connection.



Product Specifications

Air Conditioner Models

OUTDOOR UNIT (a) (b)	4A7V8X24A1000A	4A7V8X36A1000A	4A7V8X48A1000A	4A7V8X60A1000A	
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	17.0	18.0	23.0	27.0	
BR. CIR. PROT. RTG. — MAX. (AMPS)	25	25	35	40	
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	12.4 - 10.2	16.0 - 12.0	19.3 — 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	4560	4787	
NO. MOTORS — HP	1 - 1/3	1-1/3	1-1/3	1-1/3	
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	2.8	2.8	2.8	2.8	
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	7 lb — 14 oz	11 lb — 9 oz	12 lb — 12 oz	
FACTORY SUPPLIED	YES	YES	YES	YES	
LINE SIZE — IN. O.D. GAS	5/8 (h)	3/4 (h)	7/8 (h)	1 - 1/8 (i)	
LINE SIZE — IN. O.D. LIQ. ^(h)	3/8	3/8	3/8	3/8	
CHARGING SPECIFICATIONS					
SUBCOOLING	10°	10°	10°	10°	
DIMENSIONS	HXWXD	HXWXD	HXWXD	HXWXD	
CRATED (IN.)	46 X 30.1 X 33	46 X 30.1 X 33	46.4 X 35.1 X 38.7	51 X 35.1 X 38.7	
WEIGHT					
SHIPPING (LBS.)	217	228	270	284	
NET (LBS.)	196	207	245	258	

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

(f) Standard Air – Dry Coil – Outdoor

(a) This value approximate. For more precise value see unit nameplate.
(b) Max. linear length 150 ft.; Max. lift — Suction 50 ft.; Max. lift — Liquid 50 ft.

(1) 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

			A-Weighted Speed Sound Power Level [dB(A)]	Full Octave Sound Power [dB]							
Model	Mode	Speed		63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
4A7V8X24A	Cool	Min	57	71.2	49.8	51.4	58.3	51.6	44.2	37.4	41.2
	Cool	Max	66	74.8	64.1	61.3	66.2	61.2	56.3	49.4	46.5
4A7V8X36A	Cool	Min	55	71.0	53.4	51.2	53.5	51.5	44.6	40.3	41.0
	Cool	Max	70	73.1	70.5	65.8	67.3	66.0	60.9	54.1	50.0
4A7V8X48A	Cool	Min	57	70.7	52.5	51.7	55.3	53.4	43.6	35.1	41.6
	Cool	Max	74	75.5	73.6	72.0	72.8	68.7	63.9	58.3	52.1
4A7V8X60A	Cool	Min	62	71.7	55.8	56.8	56.7	60.1	44.7	42.3	41.0
	Cool	Max	75	87.8	77.6	75.2	72.2	70.2	64.7	59.0	51.1

Model	Mode	Speed	Sound Pressure in dBA				
			at 3'	at 5′	at 10'	at 15'	
4A7V8X24A	Cool	Min	50	45	39	36	
	Cool	Max	59	54	48	45	
4A7V8X36A	Cool	Min	48	43	37	34	
	Cool	Max	63	58	52	49	
4A7V8X48A	Cool	Min	50	45	39	36	
	Cool	Max	67	62	56	53	
4A7V8X60A	Cool	Min	55	50	44	41	
	Cool	Max	68	63	57	54	



Optional Accessories:

Model	4A7V8X24A	4A7V8X36A	4A7V8X48A	4A7V8X60A
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 American Standard Quick Reference Guide.

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 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 4 A 6 V 0 0 3 6 A 1 0 0 A A 4 A 6 V 0 0 3 6 A 1 0 0 A A	Air Handler 1 2 3 4 5 6 7 8 9 1011 12 13 14 15 T A M 8 C 0 B 3 6 Y 3 1 C A A A A A A A A A A A A A A A A A A A A A
Refrigerant Type	Brand T = American Standard G = Good (American Standard Branded) Product Type A = Air Handler Convertibility M = Multi-poise 4-way F = Upflow Front Return, 3-way T = 3-way Product Tier 2 = Good, Entry Level Feature Set 4 = Better, Retail Replacement Mid Effy 5 = Better, Entry Levek High Effy, Multi-Speed 7 = Best, Retail Replacement High Effy, Variable Speed 8 = Best, Retail Uttimate High Effy, Variable Speed Major Design Change No Descriptor 0 = Air Handler / Coil Size (Footprint) A = 17.5 x 21.5
Major Design Modifications	$\vec{C} = 23.5 \times 21.5$ Cooling Size: Air Handler or Coil 0-9 = AH Coil - 1000 BTUs (18, 24, 30, 36, 42, 48, 60) Airflow 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 Variable, 1-5 - nom., Tonnage (cfm/ton) V = High Effy Variable, 1-5 - nom., Tonnage (cfm/ton) Power Supply 1 - 208-230/1/60 System Control Type
Gas Furnaces 12 3 4 5 6 7 8 9 101112131415 Furnace Configuration Image: Configuration All = Upflow/Horizontal Image: Configuration All = Downflow/Horizontal Image: Configuration D = 80% Induced Draft Standard Image: Configuration D = 80% Condensing Premium Image: Configuration H = 5% Condensing Premium Image: Configuration Number of Heating Stages Image: Configuration 1 = Single Stage Image: Configuration 2 = Two Stage Image: Configuration 3 = Three Stage Image: Configuration Modulating Image: Configuration Cabinet Width Image: Configuration D = 24.5' Cabinet Width Image: Configuration Major Design Change Image: Configuration 9 = 115 Volts / 50 Hertz / Natural Gas Image: Configuration Cabinet Width Image: Configuration 1 = 15 Volts / Natural Gas with Communicating System Control and Integrated Electronic Filter D = 115 Volts / Natural Gas with Inte	S = Standard - 24 VAC C = CLII 13.8 VDC Minor Design Change Unit Parts Identifier Heat Pump/ Cooling Coils Refrigerant Type 4 = R-410A Series T = 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 Coil Writht (Cased/Uncased) A = 14.5"/13.3" B = 175"/16.3" C = 21.0"/19.8" D = 24.5"/23.3" H = 10.5" Refrigerant Line 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
2 = Two Speed V = Variable Speed Minor Design Change Service Digit - Not Orderable	U = Upflow/Downflow H = Horizontal Only C = Convertible - Upflow, Downflow, Left or Right Upflow Minor Design Change

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Wiring



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About American Standard Heating and Air Conditioning

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