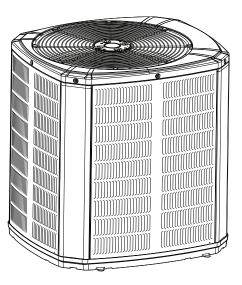
American Standard. HEATING & AIR CONDITIONING

Product Data

Variable Speed AccuLink™ Heat Pumps

4A6V0024A1000B 4A6V0036A1000B 4A6V0048A1000B 4A6V0060A1000B



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 -10° F to 66° F in heating (heat pumps only). Only AHRI approved indoor matches are approved for use with these models.

AccuLink[™]Heat Pumps

This outdoor unit contains the AccuLink[™]Heat Pumps 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[™] base.

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

HEAT PUMP MODELS

OUTDOOR UNIT (a) (b)	4A6V0024A1000B	4A6V0036A1000B	4A6V0048A1000B	4A6V0060A1000B	
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	26.0	29.0	37.0	
BR. CIR. PROT. RTG. — MAX. (AMPS)	25	40	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	18.4 - 10.2	21.1 - 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	27.5 - 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	3670	4517	4757	
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	27.87	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	9 lb — 15 oz	11 lb — 5 oz	13 lb — 2 oz	
FACTORY SUPPLIED	YES	YES	YES	YES	
LINE SIZE — IN. O.D. GAS	5/8 (h)	3/4 (h)	7/8 (h)	7/8 (h)	
LINE SIZE — IN. O.D. LIQ. ^(h)	3/8	3/8	3/8	3/8	
CHARGING SPECIFICATIONS					
SUBCOOLING	10°	9°	10°	10°	
DIMENSIONS	HXWXD	HXWXD	HXWXD	HXWXD	
CRATED (IN.)	46 X 30.1 X 33	46.4 X 35.1 X 38.7	46.4 X 35.1 X 38.7	51 X 35.1 X 38.7	
WEIGHT					
SHIPPING (LBS.)	225	263	275	285	
NET (LBS.)	204	238	250	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) 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.

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Sound Data

			A-Weighted	Full Octave Sound Power [dB]							
Model	odel Mode Speed		Sound Power Level [dB(A)]	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
4A6V0024A Col Hea	Cool	Min	54	70.9	50.3	51.8	52.3	50.4	42.0	37.7	39.9
	Cool	Max	65	76.3	65.2	62.7	64.1	60.5	55.7	49.5	45.0
	Heat	Min	60	69.8	52.9	52.8	57.5	55.2	51.9	47.4	46.5
	Heat	Max	69	75.9	66.0	64.7	67.3	65.6	57.0	52.2	47.7
4A6V0036A He	Cool	Min	59	69.3	56.0	54.8	54.5	56.8	46.6	38.0	39.0
	Cool	Max	70	79.7	70.2	68.5	66.3	65.8	63.2	56.9	51.4
	Heat	Min	60	69.8	53.0	53.8	53.9	59.5	45.3	39.1	45.3
	Heat	Max	72	84.9	70.6	73.8	70.9	66.5	62.6	58.7	53.9
4A6V0048A Co	Cool	Min	61	70.6	55.0	55.9	55.8	59.0	49.9	41.1	42.9
	Cool	Max	74	75.7	71.9	73.0	74.2	68.5	63.4	59.1	54.3
	Heat	Min	62	72.1	59.3	58.7	60.3	58.6	51.3	46.0	45.2
	Heat	Max	76	77.9	74.5	77.0	75.4	69.5	64.4	60.8	56.2
4A6V0060A	Cool	Min	57	69.7	59.5	57.6	55.1	52.0	45.0	41.6	42.3
	Cool	Max	73	83.9	73.7	73.1	71.2	67.9	64.4	58.9	51.8
	Heat	Min	61	71.9	61.3	59.0	61.3	56.2	48.7	45.1	45.5
	Heat	Max	74	85.8	75.7	74.4	73.2	68.5	63.6	59.6	55.9
NOTE: Rated in a	ccordanc	e with AHR	I Standard 270	· · · ·			•	-			

Madal Mada		Speed	Sound Pressure in dBA					
Model Mode	at 3'		at 5'	at 10'	at 15'			
4A6V0024A -	Cool	Min	47	42	36	33		
	Cool	Max	58	53	47	44		
	Heat	Min	53	48	42	39		
	Heat	Max	62	57	51	48		
4A6V0036A	Cool	Min	52	47	41	38		
	Cool	Max	63	58	52	49		
	Heat	Min	53	48	42	39		
	Heat	Max	65	60	54	51		
4A6V0048A	Cool	Min	54	49	43	40		
	Cool	Max	67	62	56	53		
	Heat	Min	55	50	44	41		
	Heat	Max	69	64	58	55		
4A6V0060A	Cool	Min	50	45	39	36		
	Cool	Max	66	61	55	52		
	Heat	Min	54	49	43	40		
	Heat	Max	67	62	56	53		

NOTE: Rated in accordance with AHRI Standard 275



Optional Accessories:

Model	4A6V0024A	4A6V0036A	4A6V0048A	4A6V0060A
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.

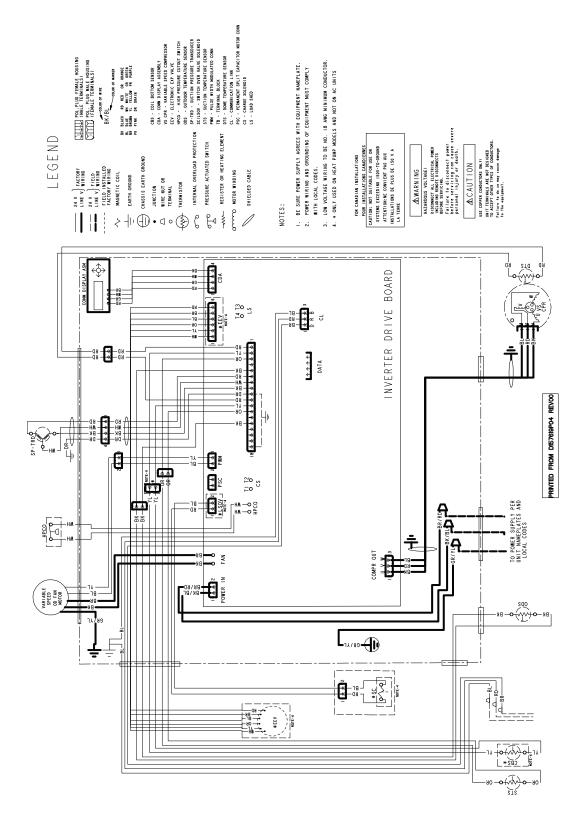
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Model Nomenclature

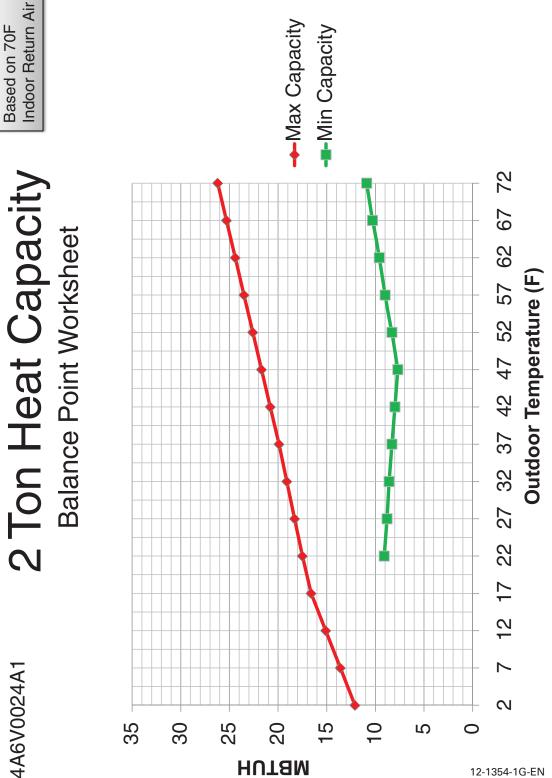
Outdoor Units 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 4 A 6 V 0 0 3 6 A 1 0 0 A A 4 A 6 V 0 3 6 A 1 0 0 A A	Air Handler 1 2 3 4 5 6 7 8 9 1011 12 13 14 15 T A M 8 C 0 B 3 6 Y 3 1 C A A Air Handler A A A A A A
Refrigerant Type	Brand T = American Standard G = Good (American Standard Branded)
4 = R-410A	Product Type
A,T = American Standard	A = AirHandler
7, T = Split Cooling	M = Multi-poise 4-way F = Upflow Front Return, 3-way
Product Family V = Variable Speed M or B = Basic Z = Leadership – Two Stage A = Light Commercial X = Leadership R = Replacement/Retail	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
Family SEER 3 = 13 6 = 16 0 = 20 4 = 14 8 = 18	8 = Best, Retail Ultimate High Effy, Variable Speed Major Design Change
5 = 15 9 = 19 Split System Connections 1-6Tons	No Descriptor 0 = Air Handler / Coil
0 = Brazed	Size (Footprint) A = 17.5 x 21.5
Nominal Capacity in 1000s of BTUs Major Design Modifications	B = 21.0 × 21.5 C = 23.5 × 21.5
Power Supply	Cooling Size: Air Handler or Coil 0-9 = AH Coil - 1000 BTU's (18, 24, 30, 36, 42, 48, 60)
1 = 200-230/1/60 or 208-230/1/60 3 = 200-230/3/60 4 = 460/3/60	Airflow Type & Capability S = Low Effy PSC, 1-5-nom., Tonnage (cfm/ton)
Secondary Function	M = Mid Effy Multi-Speed, 1-5 - nom., Tonnage (cfm/ton) H = High Effy Multi-Speed, 1-5 - nom., Tonnage (cfm/ton)
Minor Design Modifications	V = High Effy Variable, 1-5 - nom., Tonnage (cfm/ton) Power Supply
Unit Parts Identifier	1 - 208-230/1/60
	System Control Type S = Standard - 24 VAC
Gas Furnaces 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 A U H 1 B 0 8 0 A C V 3 V A A	C = CLII 13.8 VDC Minor Design Change
	Minor Design Change
Furnace Configuration	
AD= Downflow/Horizontal	Heat Pump/ 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 4 T X C B 0 36 A C 3 H C A A Cooling Coils
Type E = 80% Induced Draft Standard	
D = 80% Induced Draft Premium C = 90% Condensing Standard	Refrigerant Type
X = 90% Condensing Premium H = 95% Condensing Premium	4 = R-410A
Number of Heating Stages	Series T = Premium (Heat Pump N = Premium (Convertible to HP)
2 = Two Stage 3 = Three Stage	C = Standard
M = Modulating	Coil Design X = Direct Expansion Evaporator Coil
Cabinet Width A = 14.5" Cabinet Width = 47.5" Cabinet Width	Coil Feature
B = 17.5" Cabinet Width C = 21.0" Cabinet Width	A = Uncased A Coil
D = 24.5" Cabinet Width	F = Cased Horizontal Flat Coil Coil Width (Cased/Uncased)
Heating Input in 1000's (BTUH) 080 = 80,000 BTUH	A = 14.5"/13.3" B = 17.5"/16.3"
Major Design Change	C = 21.0"/19.8"
Voltage	D = 24.5"/23.3" H = 10.5"
9 = 115 Volts / 60 Hertz / Natural Gas A = 115 Volts / 50 Hertz / Natural Gas	Refrigerant Lilne Coupling
C = 115 Volts / Natural Gas with Communicating System Control F = 115 Volts / Natural Gas with Integrated Electronic Filter	
D = 115 Volts / Natural Gas with Communicating System Control and Integrated Electronic Filter	Nominal Capacity in 1000's (BTUH)
	Major Design Change
Air Capacity for Cooling Standard PSC Variable Speed High Efficiency	C = Standard
24 = 2 Tons V3 = 3 Tons H3 = 3 Tons 36 = 3 Tons V4 = 4 Tons H4 = 4 Tons	S = Hi Efficiency (Derived from 10 SEER products) Refrigerant Control
42 = 3.5 Tons V5 = 5 Tons H5 = 5 Tons 45 = 4 Tons	3 = TXV - Non-Bleed
48 = 4 Tons 54 = 5 Tons	Coil Circuitry
60 = 5 Tons 72 = 6 Tons	C = Cooling
Draft Inducer Speeds	Airflow Configuration
1 = Single Speed	A = Upflow Only
2 – Two Speed	
2 = Two Speed V = Variable Speed	U = Upflow/Downflow H = Horizontal Only
2 = Two Speed V = Variable Speed Minor Design Change	U = Upflow/Downflow H = Horizontal Only C = Convertible - Upflow, Downflow, Left or Right Upflow
V = Variable Speed	U = Upflow/Downflow H = Horizontal Only



Wiring — D157619P04

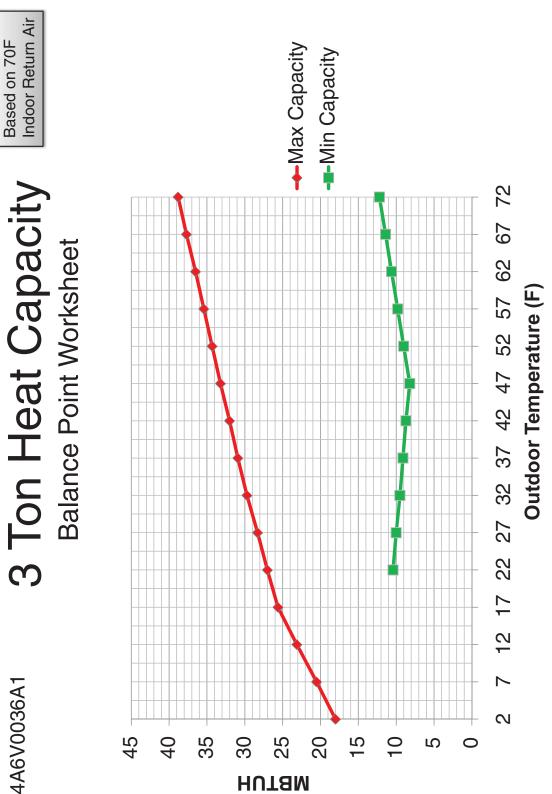


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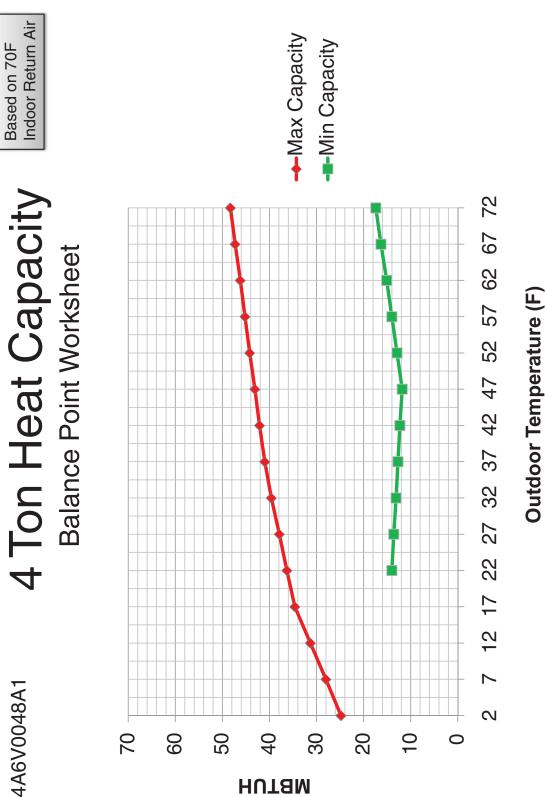
Based on 70F Indoor Return Air

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Based on 70F Indoor Return Air

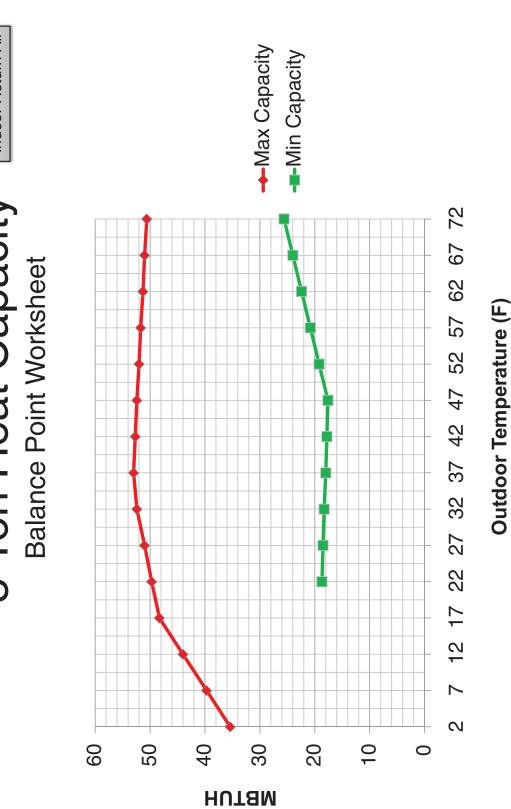
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Based on 70F Indoor Return Air

5 Ton Heat Capacity Balance Point Worksheet

4A6V0060A1

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About American Standard Heating and Air Conditioning

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