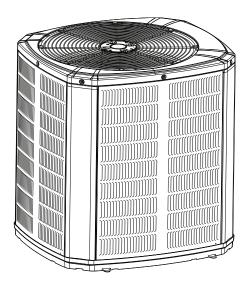


# **Product Data**

# Variable Speed AccuLink™ Heat Pumps

4A6V0024A1000A 4A6V0036A1000A 4A6V0048A1000A 4A6V0060A1000A



**Note:** "Graphics in this document are for representation only.

Actual model may differ in appearance."





# **Mechanical Specification Options**

## General

The Outdoor Units are charged from the factory for matched indoor section and up to 15 feet of piping. This unit is designed to operate at outdoor ambient temperatures from 55° F to 120° F in cooling and from  $-10^\circ$  F to 66° F in heating. 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 weather-resistant 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 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 <sup>(d)</sup> — 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) <sup>(g)</sup>	7 lb — 6 oz	9 lb — 8 oz	10 lb — 12 oz	11 lb — 14 oz	
FACTORY SUPPLIED	YES	YES	YES	YES	
LINE SIZE — IN. O.D. GAS	5/8 (h)	3/4 (h)	7/8 <sup>(h)</sup>	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°	9°	10		
DIMENSIONS	10°	HXWXD	HXWXD	HXWXD	
DIMENSIONS CRATED (IN.)	<u> </u>	-	-	-	
	HXWXD	HXWXD	HXWXD	HXWXD	
CRATED (IN.)	HXWXD	HXWXD	HXWXD	HXWXD	

<sup>(</sup>a) Certified in accordance with the Air-Source Unitary Air-conditioner Equipment certification program, which is based on AHRI standard 210/240.

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

<sup>(</sup>c) Calculated in accordance with Natl. Elec. Codes. Use only HACR circuit breakers or fuses.

<sup>(</sup>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.

<sup>(</sup>e) No means no start components. Yes means quick start kit components. PTC means positive temperature coefficient starter.

<sup>(</sup>f) Standard Air — Dry Coil — Outdoor

<sup>(9)</sup> 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.

<sup>(</sup>i) Max length of refrigerant lines from outdoor to indoor unit MUST NOT exceed 80 feet. The max vertical change MUST NOT exceed 10 feet. See footnote (h) if 7/8" suction line is used.



# **Sound Data**

	Mode	Speed	A-Weighted Sound Power Level [dB(A)]	Full Octave Sound Power [dB]							
Model				63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
4A6V0024A	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	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	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 accordance with AHRI Standard 270											



# **Sound Data**

Model	Mode	Speed	Sound Pressure in [dB]					
			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	TAYREFLN9(a)	TAYREFLN7	TAYREFLN3	TAYREFLN3

<sup>(</sup>a) Consult handbook for available length options.

# **General Data**

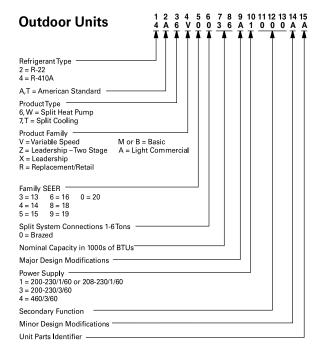
## **AHRI STANDARD 210/240 RATING CONDITIONS**

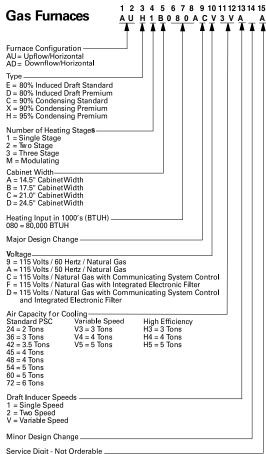
- Cooling 80°F DB, 67°F WB air entering indoor coil, 95°F DB air entering outdoor coil.
- High Temperature Heating 47°F DB, 43°F WB air entering outdoor coil, 70°F DB entering indoor coil.
- Low Temperature Heating 17°F DB, 15°F WB air entering outdoor coil, 70°F DB air entering indoor coil.
- Rated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

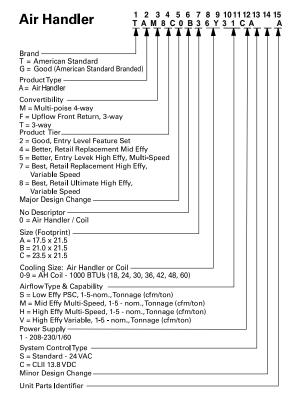
AHRI STANDARD 270 RATING CONDITIONS — (Noise rating numbers are determined with the unit in cooling operation) Standard Noise Rating number is at 95°F outdoor air.

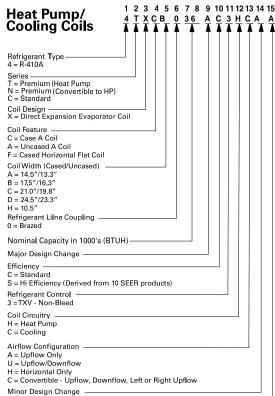


# **Model Nomenclature**





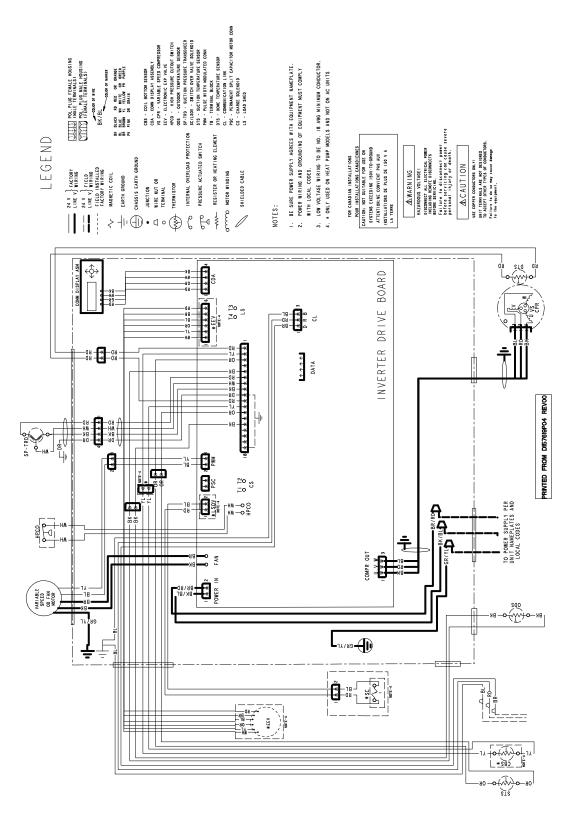




Service Digit - Not Orderable



# Wiring — D157619P04





on 70F

# 2 Ton Heat Capacity Balance Point Worksheet

Based on 70F Indoor Return Air





6V0024A1

35

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25

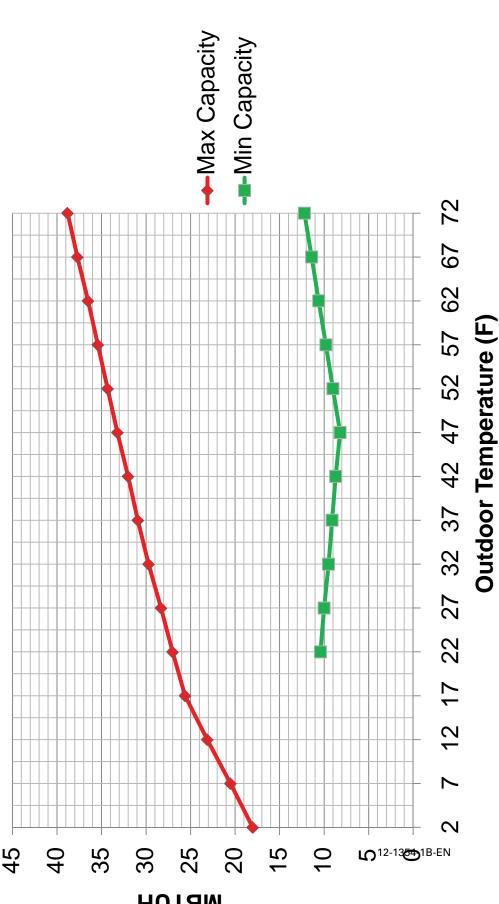


A6V0036A1

# 3 Ton Heat Capacity

Indoor Return Air Based on 70F

**Balance Point Worksheet** 





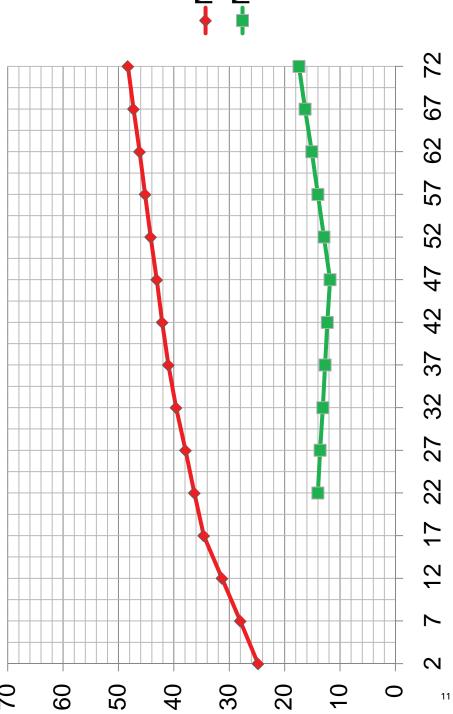
Outdoor Temperature (F)

A6V0048A1

# 4 Ton Heat Capacity Balance Point Worksheet

Based on 70F Indoor Return Air

→Max Capacity
■ Min Capacity



IND I QIVI

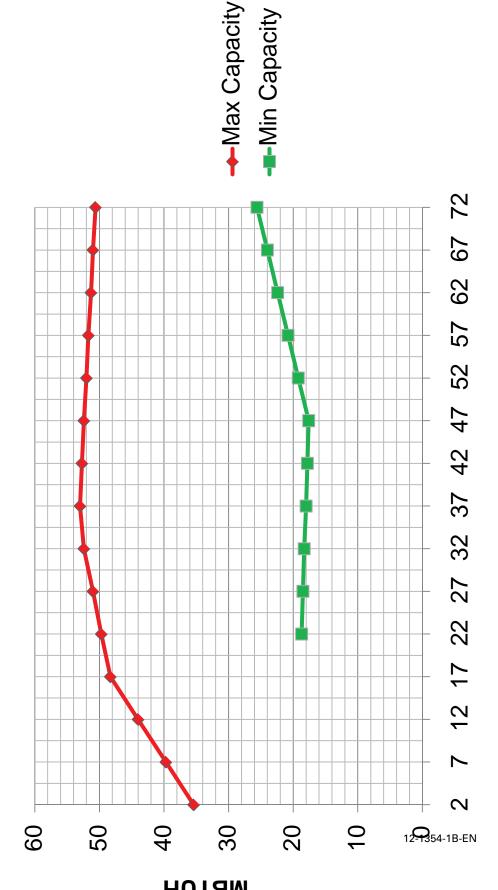


A6V0060A1

# 5 Ton Heat Capacity

**Balance Point Worksheet** 

Indoor Return Air Based on 70F





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