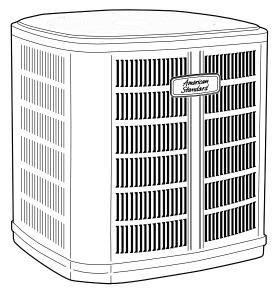


# **Product Data**

## **Split System Heat Pump**

208-230V MODEL 4A6C4036A3000A 4A6C4042A3000A 4A6C4060A3000A 4A6C4060A3000A 460V MODEL 4A6C4036A4000A 4A6C4042A4000A 4A6C4048A4000A



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



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## **Product Specifications**

Table 1. 230v Models

		1			
OUTDOOR UNIT (a)	4A6C4036A3000A	4A6C4042A3000A	4A6C4048A3000A	4A6C4060A3000A	
POWER CONNS. – V/PH/HZ	208-230/3/60	208-230/3/60	208-230/3/60	208-230/3/60	
MIN. BRCH. CIR. AMPACITY	13	18	18	21	
BR. CIR. PROT. RTG. – MAX. (AMPS)	20	30	30	35	
COMPRESSOR	DURATION®- SCROLL	DURATION®- SCROLL	DURATION®- SCROLL	DURATION®- SCROLL	
R.L. AMPS – L.R. AMPS	9.9 – 70	13.5 - 88	13.7-83.1	15.9 - 110	
OUTDOOR FAN	PROPELLER	PROPELLER	PROPELLER	PROPELLER	
DIA. (IN.) - NO. USED	27.6 - 1	27.6 - 1	27.6 - 1	27.6 - 1	
NO. MOTORS - HP	1 - 1/8	1 - 1/5	1 - 1/5	1 - 1/5	
F.L. AMPS	0.8	1.1	1.1	1.1	
OUTDOOR COIL - TYPE	SPINE FIN™	SPINE FIN™	SPINE FIN™	SPINE FIN™	
REFRIGERANT					
LBS R-410A (O.D. UNIT)	6 LBS., 12 OZ	6 LBS., 5 OZ	9 LBS., 0 OZ	10 LBS., 14 OZ	
LINE SIZE — IN. O.D. GAS (c) (d)	7/8	7/8	7/8	1 - 1/8	
LINE SIZE – IN. O.D. LIQ.	3/8	3/8	3/8	3/8	
CHARGING SPECIFICATIONS					
SUBCOOLING	10°F	10°F	10°F	8°F	
DIMENSIONS	HXWXD	HXWXD	HXWXD	HXWXD	
CRATED (IN.)	34.4 x 38.7 x 35.1	34.4 x 38.7 x 35.1	38.4 x 38.7 x 35.1	51 x 38.7 x 35.1	
WEIGHT					
SHIPPING (LBS.)	240	240	252	325	
NET (LBS.)	208	208	218	275	
Optional Accessories:					
Anti-short Cycle Timer	TAYASCT501A	TAYASCT501A	TAYASCT501A	TAYASCT501A	
Evaporator Defrost Control	AY28X084	AY28X084	AY28X084	AY28X084	
Rubber Isolator Kit	BAYISLT101	BAYISLT101	BAYISLT101	BAYISLT101	
Extreme Condition Mount Kit	BAYECMT004	BAYECMT004	BAYECMT004	BAYECMT004	
Seacoast Kit	BAYSEAC001	BAYSEAC001	BAYSEAC001	BAYSEAC001	
Low Ambient Kit	BAYLOAM107	BAYLOAM107	BAYLOAM107	BAYLOAM107	
Sound Enclosure	BAYSDEN004	BAYSDEN004	BAYSDEN004	BAYSDEN004	
Service Valve Panel Cover	TAYSVPANL3343AA	TAYSVPANL3343AA	TAYSVPANL0046AA	TAYSVPANL0032AA	
Refrigerant Lineset (e)		•		•	
(a) Cortified in accordance with t					

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

 $<sup>^{(</sup>b)}$  Calculated in accordance with N.E.C. Only use HACR circuit breakers or fuses.

 <sup>(</sup>c) Reference the outdoor unit ship-with literature for refrigerant piping length and lift guidelines. Reference the refrigerant piping software pub #32-3312-xx or refrigerant piping application guide SS-APG006-xx for long line sets or specialty applications (xx denotes latest revision).
 (d) The outdoor condensing units are factory charged with the system charge required for the outdoor condensing unit, ten (10) feet of tested connecting line,

<sup>(</sup>d) The outdoor condensing units are factory charged with the system charge required for the outdoor condensing unit, ten (10) feet of tested connecting line and the smallest rated indoor evaporative coil match. Always verify proper system charge via subcooling (TXV/EEV) or superheat (fixed orifice) per the unit nameplate.

<sup>(</sup>e) 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.



### **Product Specifications**

Table 2. 460v Models

OUTDOOR UNIT (a)	4A6C4036A4000A	4A6C4042A4000A	4A6C4048A4000A	4A6C4060A4000A	
POWER CONNS. – V/PH/HZ	460/3/60	460/3/60	460/3/60	460/3/60	
MIN. BRCH. CIR. AMPACITY	6	8	8	9	
BR. CIR. PROT. RTG. – MAX. (AMPS)	15	15	15	15	
COMPRESSOR	DURATION®- SCROLL	DURATION®- SCROLL	DURATION®- SCROLL	DURATION®- SCROLL	
R.L. AMPS – L.R. AMPS	4.3 - 31	6 – 44	6.2 - 41	7.1 - 52	
OUTDOOR FAN	PROPELLER	PROPELLER	PROPELLER	PROPELLER	
DIA. (IN.) - NO. USED	27.6 - 1	27.6 - 1	27.6 - 1	27.6 - 1	
NO. MOTORS - HP	1 - 1/8	1 - 1/5	1 - 1/5	1 - 1/5	
F.L. AMPS	0.4	0.6	0.6	0.6	
OUTDOOR COIL - TYPE	SPINE FIN™	SPINE FIN™	SPINE FIN™	SPINE FIN™	
REFRIGERANT					
LBS R-410A (O.D. UNIT)	6 LBS., 12 OZ	6 LBS., 5 OZ	9 LBS., 0 OZ	10 LBS., 14 OZ	
LINE SIZE — IN. O.D. GAS (c)	7/8	7/8	7/8	1 - 1/8	
LINE SIZE – IN. O.D. LIQ.	3/8	3/8	3/8	3/8	
CHARGING SPECIFICATIONS					
SUBCOOLING	10°F	10°F	10°F	8°F	
DIMENSIONS	HXWXD	HXWXD	HXWXD	HXWXD	
CRATED (IN.)	34.4 x 38.7 x 35.1	34.4 x 38.7 x 35.1	38.4 x 38.7 x 35.1	51 x 38.7 x 35.1	
WEIGHT					
SHIPPING (LBS.)	248	240	252	324	
NET (LBS.)	216	208	218	274	
Optional Accessories:					
Anti-short Cycle Timer	TAYASCT501A	TAYASCT501A	TAYASCT501A	TAYASCT501A	
Evaporator Defrost Control	AY28X084	AY28X084	AY28X084	AY28X084	
Rubber Isolator Kit	BAYISLT101	BAYISLT101	BAYISLT101	BAYISLT101	
Extreme Condition Mount Kit	BAYECMT004	BAYECMT004	BAYECMT004	BAYECMT004	
Seacoast Kit	BAYSEAC001	BAYSEAC001	BAYSEAC001	BAYSEAC001	
Low Ambient Kit	BAYLOAM107	BAYLOAM107	BAYLOAM107	BAYLOAM107	
Sound Enclosure	BAYSDEN004	BAYSDEN004	BAYSDEN004	BAYSDEN004	
Service Valve Panel Cover	TAYSVPANL3343AA	TAYSVPANL3343AA	TAYSVPANL0046AA	TAYSVPANL0032AA	
Refrigerant Lineset (e)					

<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>c) Calculated in accordance with N.E.C. Only use HACR circuit breakers or fuses.
(c) Reference the outdoor unit ship-with literature for refrigerant piping length and lift guidelines. Reference the refrigerant piping software pub #32–3312– xx or refrigerant piping application guide SS-APG006-xx for long line sets or specialty applications (xx denotes latest revision).

<sup>(</sup>d) The outdoor condensing units are factory charged with the system charge required for the outdoor condensing unit, ten (10) feet of tested connecting line, and the smallest rated indoor evaporative coil match. Always verify proper system charge via subcooling (TXV/EEV) or superheat (fixed orifice) per the unit nameplate.

<sup>(</sup>e) 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.



## **Sound Power Level**

Sound Power Level										
MODEL	A-Weighted Sound Power Level [dB(A)]	Full Octave Sound Power(dB)								
		63 Hz*	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	
4A6C4036A3	75	72	72	71	69	70	62	57	52	
4A6C4042A3	74	85	74	68	69	69	63	58	54	
4A6C4048A3	74	85	74	68	69	69	63	58	54	
4A6C4060A3	74	85	74	68	69	69	63	58	54	
Note: Rated in a	ccordance with AHRI	Standard 270	0-2008 *For r	eference only		•		•	•	
4A6C4036A4	75	72	72	71	69	70	62	57	52	
4A6C4042A4	74	85	74	68	69	69	63	58	54	
4A6C4048A4	74	85	74	68	69	69	63	58	54	
4A6C4060A4	74	85	74	68	69	69	63	58	54	



## **Accessory Description and Usage**

**Anti-Short Cycle Timer** — Solid state timing device that prevents compressor recycling until five (5) minutes have elapsed after satisfying call or power interruptions. Use in area with questionable power delivery, commercial applications, long lineset, etc.

**Evaporation Defrost Control** — SPST Temperature actuated switch that cycles the condenser off as indoor coil reaches freeze-up conditions. Used for low ambient cooling to 30°F with TXV.

**Rubber Isolators** — Five (5) large rubber donuts to isolate condensing unit from transmitting energy into mounting frame or pad. Use on any application where sound transmission needs to be minimized.

**Extreme Condition Mount Kit** — Bracket kits to securely mount condensing unit to a frame or pad without removing any panels. Use in areas with high winds, or on commercial roof tops, etc.

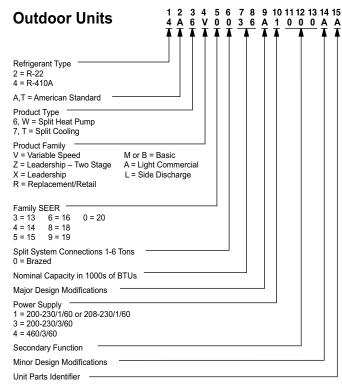
#### **AHRI Standard Capacity Rating Conditions**

AHRI Standard 210/240 Rating Conditions

- 1. Cooling 80°F DB, 67°F WB air entering indoor coil, 95°F DB air entering outdoor coil.
- 2. High Temperature Heating 47°F DB, 43°F WB air entering outdoor coil, 70°F DB air entering indoor coil.
- 3. Low Temperature Heating 17°F DB air entering outdoor coil.
- 4. 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 operations.) Standard Noise Rating number is at 95°F outdoor air.

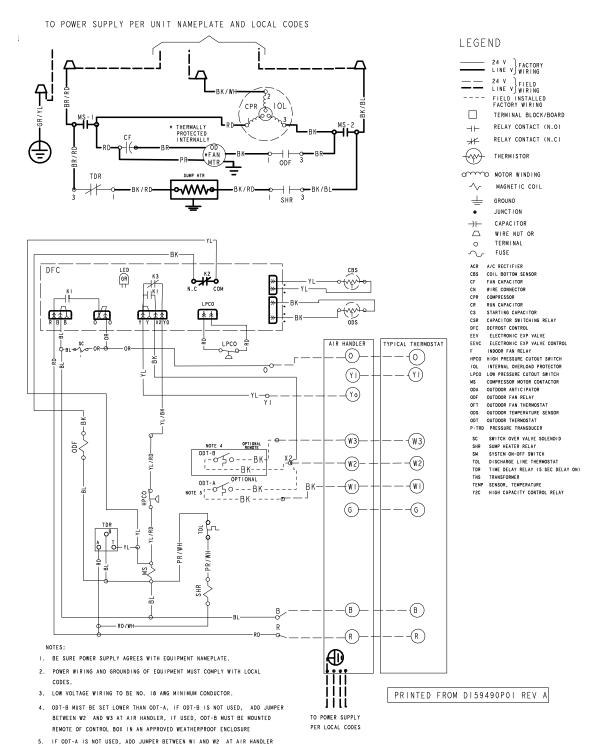
### **Model Nomenclature**





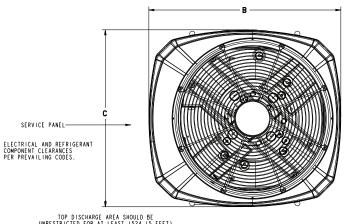
### **Schematic**

Figure 1. 3.5, 4.0 & 5.0 Ton 460V Models

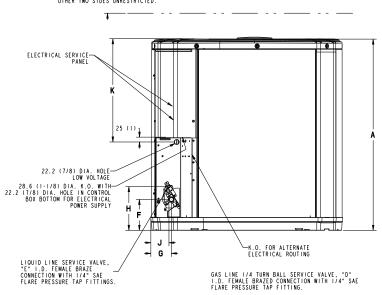




# **Outline Drawing**



TOP DISCHARGE AREA SHOULD BE
UNRESTRICTED FOR AT LEAST 1524 (5 FET)
ABOVE UNIT, UNIT SHOULD BE PLACED SO ROOF
RUN-OFF WATER DOES NOT POUR DIRECTLY ON UNIT,
AND SHOULD BE AT LEAST 305 (12") FROM WALL AND
ALL SURROUNDING MEMBEREY ON TWO SIDES.
OTHER TWO SIDES UNRESTRICTED.



Model	Base	Α	В	С	D	E	F	G	Н	J	K
4A6A4036A3	4	741 (29-1/8)	946 (37-1/4)	870 (34-1/4)	3/4	3/8	143 (5-5/8)	83 (3-1/4)	206 (8-1/8)	70 (2-3/4)	508 (20)
4A6A4042A3	4	741 (29-1/8)	946 (37-1/4)	870 (34-1/4)	3/4	3/8	143 (5-5/8)	83 (3-1/4)	206 (8-1/8)	70 (2-3/4)	508 (20)
4A6A4048A3	4	841 (33-1/8)	946 (37-1/4)	870 (34-1/4)	3/4	3/8	156 (6)	98 (3-7/8)	219 (8-5/8)	86 (3-3/8)	508 (20)
4A6A4060A3	4	1147 (45-1/8)	946 (37-1/4)	870 (34-1/4)	7/8	3/8	152 (6)	98 (3-7/8)	219 (8-5/8)	86 (3-3/8)	813 (32)
4A6A4036A4	4	741 (29-1/8)	946 (37-1/4)	870 (34-1/4)	7/8	3/8	143 (5-5/8)	83 (3-1/4)	206 (8-1/8)	70 (2-3/4)	508 (20)
4A6A4042A4	4	741 (29-1/8)	946 (37-1/4)	870 (34-1/4)	3/4	3/8	143 (5-5/8)	83 (3-1/4)	206 (8-1/8)	70 (2-3/4)	508 (20)
4A6A4048A4	4	841 (33-1/8)	946 (37-1/4)	870 (34-1/4)	3/4	3/8	156 (6)	98 (3-7/8)	219 (8-5/8)	86 (3-3/8)	508 (20)
4A6A4060A4	4	1147 (45-1/8)	946 (37-1/4)	870 (34-1/4)	7/8	3/8	152 (6)	98 (3-7/8)	219 (8-5/8)	86 (3-3/8)	813 (32)



## **Mechanical Specification Options**

#### General

The outdoor condensing units are factory charged with the system charge required for the outdoor condensing unit, ten (10) feet of tested connecting line, and the smallest rated indoor evaporative coil match. This unit is designed to operate at outdoor ambient temperatures as high as 115°F. Cooling capacities are matched with a wide selection of air handlers and furnace coils that are AHRI certified. The unit is certified to UL 1995. Exterior is designed for outdoor application.

#### Casing

Unit casing is constructed of heavy gauge, galvanized steel and painted with a weather-resistant powder paint finish. The corner panels are prepainted. All panels are subjected to our 1,000 hour salt spray test.

### **Refrigerant Controls**

Refrigeration system controls include condenser fan, compressor contactor and low and high pressure switches. A factory supplied, field installed liquid line drier is standard.

### Compressor

The compressor features internal over temperature and pressure protection. Other features include: Centrifugal oil pump and low vibration and noise.

#### Condenser Coil

The 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 a cooling capacity to 55°F. The addition of an evaporator defrost control permits operation to 40°F. The addition of an evaporator defrost control with TXV permits low ambient cooling to 30°F.

The addition of the BAYLOAM107A low ambient kit permits ambient cooling to 20°F.

Thermostats—Cooling only and heat/cooling (manual and automatic change over). Sub-base to match thermostat and locking thermostat cover.



### About American Standard Heating and Air Conditioning

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

The manufacturer has a policy of continuous data improvement and it reserves the right to change design and specifications without notice. We are committed to using environmentally conscious print practices.

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