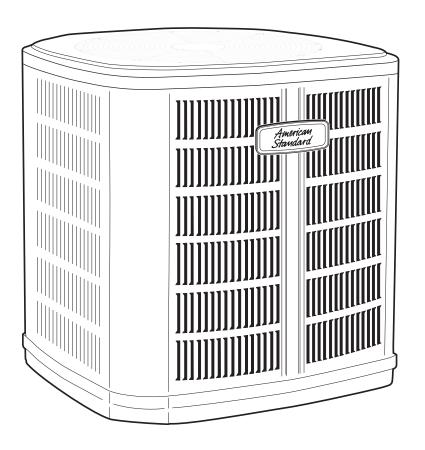


# Split System Heat Pump Product Data

**Silver 14** 4A6H4

1  $\frac{1}{2}$  - 5 Tons





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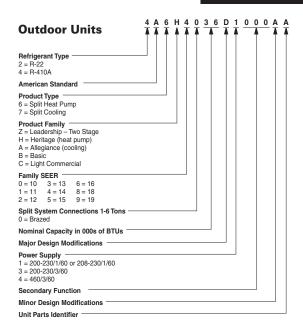
# Features and Benefits

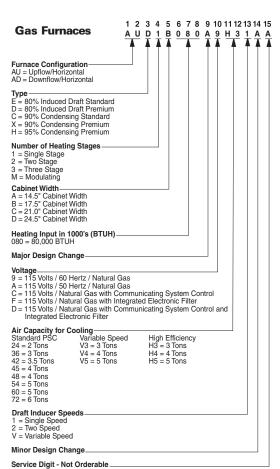
- Efficiency up to 14.5 SEER and 8.5 HSPF
- All aluminum **SPINE FIN™** coil
- WEATHERGUARD™ fasteners
- EASY-SESS™ cabinet, service access and refrigerant connections with full coil protection
- DURABASE™ base, fast complete drain, weatherproof
- COMFORT-R™ mode approved
- · Glossy corrosion resistant finish
- Internal compressor high/low pressure & temperature protection
- 018-030 ship with start kit
- Compressor Sump Heat (060)
- Liquid line filter/drier

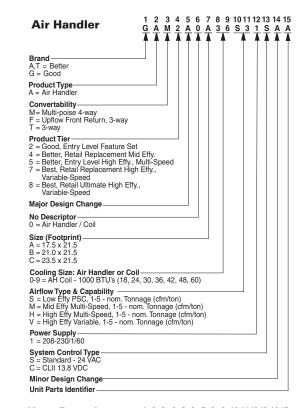
- Spinnaker gray cabinet with anthracite gray badge
- High pressure switch
- · Demand Defrost with Diagnostics
- R-410A refrigerant
- · S.E.E.T. design testing
- 100% line run test
- Low ambient cooling to 20°F with AY28X084
- Low ambient cooling to 55°F as shipped
- Extended warranties available

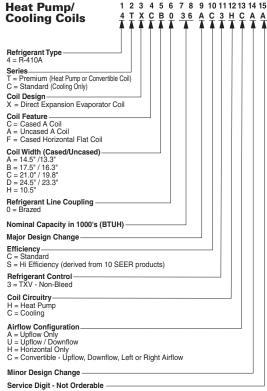


# Model Nomenclature









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# **General Data**

# **Product Specifications**

<u> </u>								
Model No. ①	4A6H4018D1000A	4A6H4024D1000A	4A6H4030D1000A	4A6H4036D1000A				
Electrical Data V/Ph/Hz ②	208/230/1/60	208/230/1/60	208/230/1/60	208/230/1/60				
Min Cir Ampacity	9	11	15	22				
Max Fuse Size (Amps)	15	15	25	35				
Compressors	DURATION™	DURATION™	DURATION™	DURATION™ - SCROLL				
RL AMPS - LR AMPS	6.4 - 38.6	8.3 - 58	11.3 - 68.2	16.7 - 79				
Outdoor Fan FL Amps	0.77	0.77	1.20	0.95				
Fan HP	1/8	1/8	1/5	1/5				
Fan Dia (inches)	24	24	22	22				
Coil	Spine Fin™	Spine Fin™	Spine Fin™	Spine Fin™				
Refrigerant R-410A	5/14-LB/OZ	7/02-LB/OZ	8/02-LB/OZ	6/2-LB/OZ				
Line Size - (in.) O.D. Gas ③	5/8	5/8	3/4	3/4				
Line Size - (in.) O.D. Liquid ③	3/8	3/8	3/8	3/8				
Dimensions H x W x D (Crated)	34 x 30.1 x 33	38 x 30.1 x 33	38.4 x 35.1 x 38.7	38.4 x 35.1 x 38.7				
Weight - Shipping	204	236	273	229				
Weight - Net	176	208	239	198				
Start Components	YES	YES	YES	NO				
Sound Enclosure	NO	NO	YES	NO				
Compressor Sump Heat	NO	NO	NO	NO				
Optional Accessories: 4								
Anti-short Cycle Timer	TAYASCT501A	TAYASCT501A	TAYASCT501A	TAYASCT501A				
Evaporator Defrost Control A/C	AY28X084	AY28X084	AY28X084	AY28X084				
Rubber Isolator Kit	BAYISLT101	BAYISLT101	BAYISLT101	BAYISLT101				
Crankcase Heater	BAYCCHT300A	BAYCCHT300A	BAYCCHT300A	BAYCCHT302A				
Hard Start Kit Scroll	_	_	<del>_</del>	BAYKSKT263				
Extreme Condition Mounting Kit	BAYECMT023	BAYECMT023	BAYECMT004	BAYECMT004				
Snow Leg - Base & Cap 4" High	BAYLEGS002	BAYLEGS002	BAYLEGS002	BAYLEGS002				
Snow Leg - 4" Extension	BAYLEGS003	BAYLEGS003	BAYLEGS003	BAYLEGS003				
Sound Enclosure	BAYSDEN001	BAYSDEN001	_	BAYDENS003				
Seacoast Kit	BAYSEAC001	BAYSEAC001	BAYSEAC001	BAYSEAC001				
Refrigerant Lineset 5	TAYREFLN950	TAYREFLN950	TAYREFLN7*	TAYREFLN7*				
Service Valve Cover	AAYSVPANL0032A	AAYSVPANL3343A	AAYSVPANL3343A	AAYSVPANL3343A				

① Certified in accordance with the Air-Source Unitary Heat Pump Equipment certification program which is based on AHRI Standard 210/240. ② Calculated in accordance with N.E.C. Only use HACR circuit breakers or fuses.

### **Sound Power Level**

Model	A-Weighted Sound Power	Full Octave Sound Power [dB]							
	Level [dB(A)]	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
4A6H4018D	76	73	75	70	74	72	67	60	50
4A6H4024D	76	73	75	70	74	72	67	60	50
4A6H4030D	76	75	71	67	69	67	63	59	55
4A6H4036D	76	84	75	70	72	67	62	57	50
4A6H4042D	76	83	74	68	71	68	63	59	55
4A6H4048D	76	83	72	67	70	69	65	59	56
4A6H4060D	76	71	71	76	76	74	69	62	55

Note: Rated in accordance with AHRI Standard 270-2008

<sup>Standard line lengths - 80'. Standard lift - 60' Suction and Liquid line. For Greater lengths and lifts refer to refrigerant piping software Pub# 32-3312-0¹. (¹denotes latest revision)

For accessory description and usage, see page 5. ⑤ \* = 15, 20, 25, 30, 40 and 50 foot lineset available.</sup> 



# General Data

# **Product Specifications**

Model No. 1	4A6H4042D1000A	4A6H4048D1000A	4A6H4060D1000A
Electrical Data V/Ph/Hz ②	208/230/1/60	208/230/1/60	208/230/1/60
Min Cir Ampacity	26	28	34
Max Fuse Size (Amps)	45	50	60
Compressors	DURATION™ - SCROLL	DURATION™ - SCROLL	DURATION™ - SCROLL
RL AMPS - LR AMPS	19.9 - 109	21.8 - 117	26.4 - 134
Outdoor Fan FL Amps	0.86	0.86	1.30
Fan HP	1/5	1/5	1/4
Fan Dia (inches)	22	24.71	29.15
Coil	Spine Fin™	Spine Fin™	Spine Fin™
Refrigerant R-410A	7/8-LB/OZ	8/8-LB/OZ	13/12-LB/OZ
Line Size - (in.) O.D. Gas ③	3/4	7/8	1 - 1/8
Line Size - (in.) O.D. Liquid 3	3/8	3/8	3/8
Dimensions H x W x D (Crated)	38.4 x 35.1 x 38.7	42.4 x 35.1 x 38.7	51 x 35.1 x 38.7
Weight - Shipping	253	269	332
Weight - Net	219	234	295
Start Components	NO	NO	NO
Sound Enclosure	NO	NO	NO
Compressor Sump Heat	NO	NO	YES
Optional Accessories: 4			
Anti-short Cycle Timer	TAYASCT501A	TAYASCT501A	TAYASCT501A
Evaporator Defrost Control A/C	AY28X084	AY28X084	AY28X084
Rubber Isolator Kit	BAYISLT101	BAYISLT101	BAYISLT101
Crankcase Heater	BAYCCHT301A	BAYCCHT301A	_
Hard Start Kit Scroll	BAYKSKT263	BAYKSKT263	BAYKSKT263
Extreme Condition Mounting Ki		BAYECMT004	BAYECMT004
Snow Leg - Base & Cap 4" High		BAYLEGS002	BAYLEGS002
Snow Leg - 4" Extension	BAYLEGS003	BAYLEGS003	BAYLEGS003
Sound Enclosure	BAYSDEN004	BAYSDEN004	BAYSDEN004
Seacoast Kit	BAYSEAC001	BAYSEAC001	BAYSEAC001
Refrigerant Lineset 5	TAYREFLN7*	TAYREFLN3*	TAYREFLN3*





① Certified in accordance with the Air-Source Unitary Heat Pump Equipment certification program which is based on AHRI Standard 210/240.

AAYSVPANL0044A

AAYSVPANL0046A

② Calculated in accordance with N.E.C. Only use HACR circuit breakers or fuses.

Service Valve Cover

- Standard line lengths 60'. Standard lift 60' Suction and Liquid line. For Greater lengths/lifts refer to refrigerant piping software Pub# 32-3312-0<sup>†</sup>.
- ④ For accessory description and usage, see page 5. ⑤ \* = 25, 30, 40 and 50 foot lineset available.

AAYSVPANL3343A

# **Accessory Description and Usage**

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

**Evaporator 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** — 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.

 $\label{thm:conditions} \textbf{Hard Start kit} \ - \ \text{Start capacitor and relay to assist compressor motor startup.} \ Use in areas with marginal power supply, on long linesets, low ambient conditions, etc.$ 

**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.

CONDITIONS —

(A) Cooling 80°F DB, 67°F WB air

(A) Cooling 80°F DB, 67°F WB air entering indoor coil, 95°F DB air entering outdoor coil.

**AHRI STANDARD 210/240 RATING** 

AHRI Standard Capacity Rating Conditions

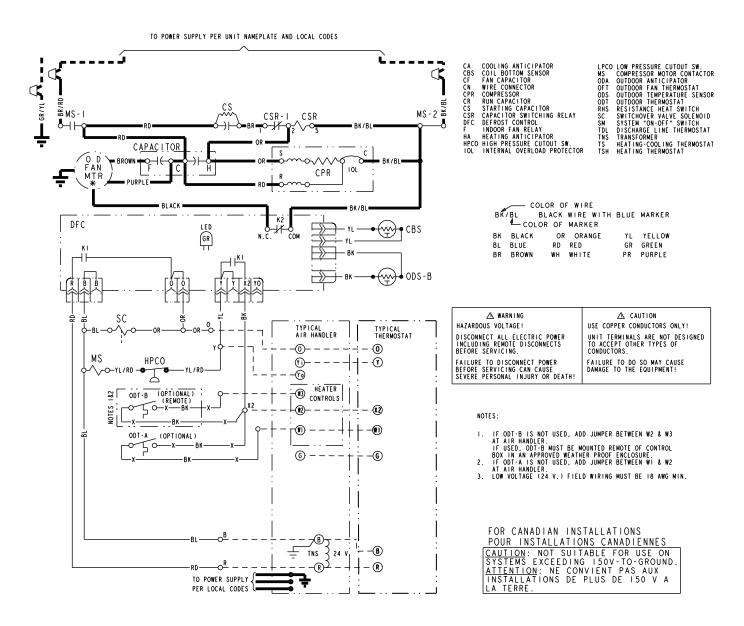
AHRI STANDARD 270 RATING CONDITIONS — (Noise rating numbers are determined with the unit in cooling operation.) Standard Noise Rating number is at 95°F outdoor air.

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# **Schematic Diagrams**

## 4A6H4018-030D

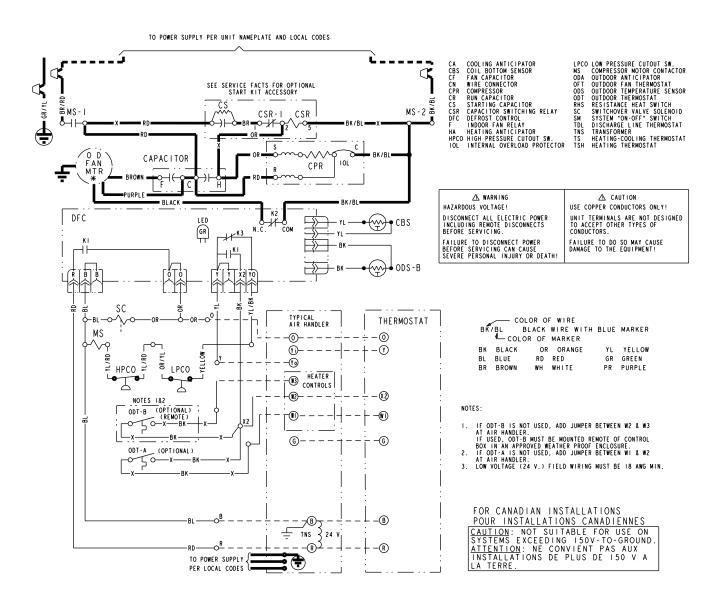


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# **Schematic Diagrams**

### 4A6H4036D



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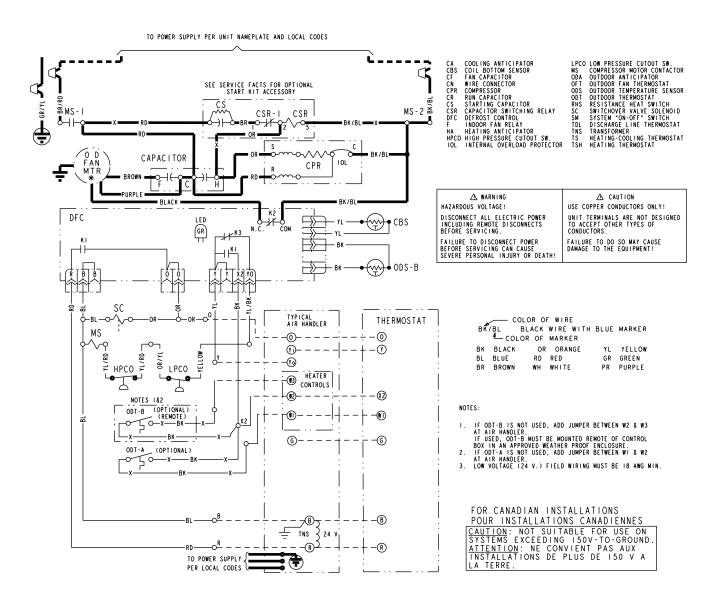
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# **Schematic Diagrams**

(SEE LEGEND)

## 4A6H4042D

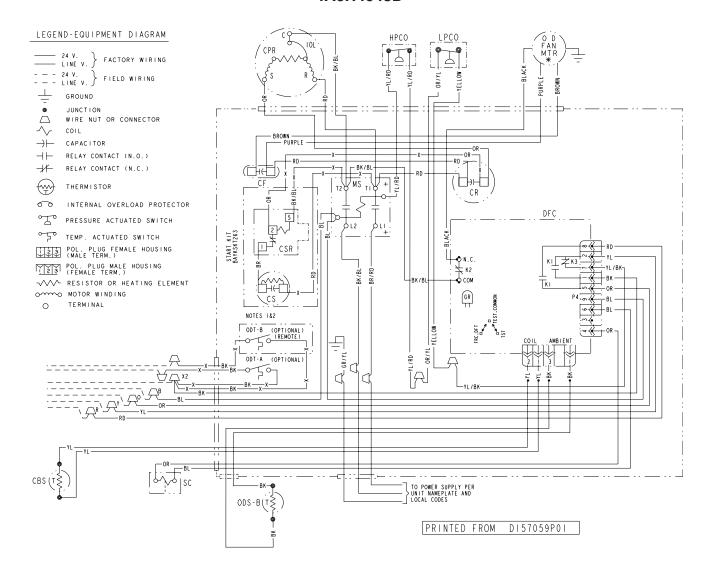


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# **Schematic Diagrams**

# 4A6H4048D



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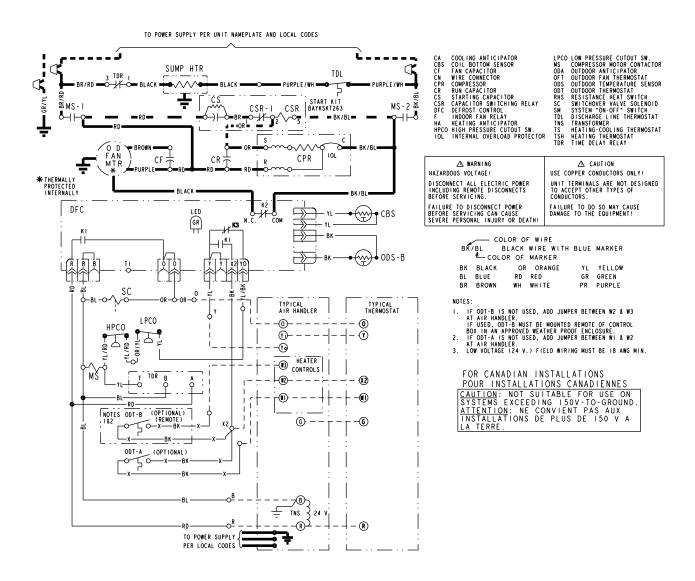
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# **Schematic Diagrams**

(SEE LEGEND)

### 4A6H4060D

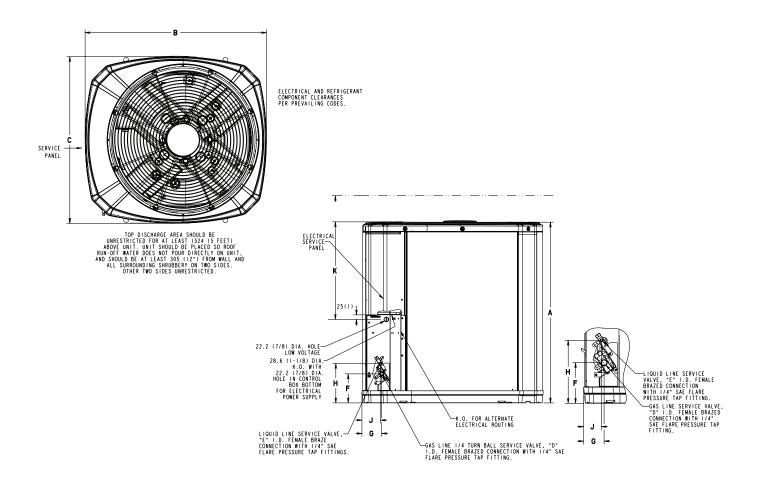




# **Dimensions**

# **4A6H4 Outline Drawing**

Note: All dimensions are in MM (Inches).



MODELS	BASE	А	В	С	D	E	F	D	н	J	К
4A6H4018D	3	730 (28-3/4)	829 (32-5/8)	756 (29-3/4)	5/8	3/8	127 (5)	76 (3)	197 (7-3/4)	57 (2-1/4)	508 (20)
4A6H4024D	3	832 (32-3/4)	829 (32-5/8)	756 (29-3/4)	5/8	3/8	143 (5-5/8)	92 (3-5/8)	210 (8-1/4)	79 (3-1/8)	508 (20)
4A6H4030D	4	841 (33-1/8)	946 (37-1/4)	870 (34-1/4)	3/4	3/8	152 (6)	98 (3-7/8)	219 (8-5/8)	86 (3-3/8)	508 (20)
4A6H4036D	4	841 (33-1/8)	946 (37-1/4)	870 (34-1/4)	3/4	3/8	152 (6)	98 (3-7/8)	219 (8-5/8)	86 (3-3/8)	508 (20)
4A6H4042D	4	841 (33-1/8)	946 (37-1/4)	870 (34-1/4)	3/4	3/8	152 (6)	98 (3-7/8)	219 (8-5/8)	86 (3-3/8)	508 (20)
4A6H4048D	4	943 (37 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)	508 (20)
4A6H4060D	4	1147 (45 1/8)	946 (37-1/4)	870 (34-1/4)	1-1/8	3/8	152 (6)	98 (3-7/8)	219 (8-5/8)	86 (3-3/8)	508 (20)

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# **Mechanical Specification Options**

#### General

The 4A6H4 is fully charged from the factory for up to 15 feet of piping. 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, G90 galvanized steel and painted with a weather-resistant powder paint on fan top cover and louvered panels, prepaint on all other panels. Corrosion and weatherproof CMBP-G30 base.

### **Refrigerant Controls**

Refrigeration system controls include condenser fan and compressor contactor. High and low pressure controls are inherent to the compressor. A factory installed liquid line drier is standard.

### Compressor

The compressor features internal over temperature and pressure protection and total dipped hermetic motor. 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 unit has a cooling capability to 55°F. The addition of an evaporator defrost control with TXV permits low ambient cooling to 20° F.

### Accessories

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







09/14