

MODELS 4A6H7024, 036, 048, & 060



# Features and Benefits

- DURATION 2-stage scroll compressor
- Efficiency up to 18.0 SEER and 9.5 HSPF
- All Aluminum **SPINE FIN™** coil
- DURABASE™ weather proof and rust proof base
- **COMFORT** "R"™ mode approved for better comfort indoors
- EASY-SESS™ cabinet, service access and refrigerant connections with full coil protection
- WEATHERGUARD™ fasteners
- Glossy corrosion resistant finish tarpaulin gray cabinet with anthracite gray top
- Internal compressor high/low pressure & temperature protection

- Liquid line filter/drier
- Low sound with advanced variable speed fan motor
- Service valve cover
- R-410A refrigerant
- From 70 to 100% capacity modulation
- 100% run test in the factory
- Low ambient cooling to 55° as shipped
- Extended warranties available



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# **General Data**

## **Product Specifications**

Model No. ①	4A6H7024A1000A	4A6H7036B1000B	4A6H7048A1000A	4A6H7060A1000A		
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	15	21	28	41		
Max Fuse Size (Amps)	25	35	45	60		
Compressor	DURATION™ - SCROLL	DURATION™ - SCROLL	DURATION™ - SCROLL	DURATION™ - SCROLL		
No. Used - No. Stages	1-2	1-2	1-2	1-2		
RL AMPS - LR AMPS	11.7 - 58.3	15.3 - 83	21.2 - 104	32.1 - 152.9		
Outdoor Fan FL Amps	0.74	0.74	1.00	1.30		
Fan HP	1/8	1/8	1/5	1/4		
Fan Dia (inches)	27.6	27.87	27.6	27.6		
Coil	Spine Fin™	Spine Fin™	Spine Fin™	Spine Fin™		
Refrigerant R-410A	10/3-LB/OZ	9/0-LB/OZ	12/9-LB/OZ	13/3-LB/OZ		
Line Size - (in.) O.D. Gas 3	5/8	3/4	7/8	1-1/8		
Line Size - (in.) O.D. Liquid ③	3/8	3/8	3/8	3/8		
Dimensions H x W x D (Crated)	46.4 x 35.1 x 38.7	46.4 x 35.1 x 38.7	51 x 35.1 x 38.7	51 x 35.1 x 38.7		
Weight - Shipping	272	258	329	330		
Weight - Net	236	210	292	293		
Start Components	NO	NO	NO	NO		
Sound Enclosure	NO	NO	NO	NO		
Compressor Sump Heat	YES	YES	YES	YES		
Optional Accessories: 4						
Rubber Isolator Kit	BAYISLT101	BAYISLT101	BAYISLT101	BAYISLT101		
Snow Leg - Base & Cap 4" High	n BAYLEGS002	BAYLEGS002	BAYLEGS002	BAYLEGS002		
Snow Leg - 4" Extension	BAYLEGS003	BAYLEGS003	BAYLEGS003	BAYLEGS003		
Hard Start Kit Scroll	BAYKSKT263	BAYKSKT263	BAYKSKT266	BAYKSKT266		
Extreme Condition Mounting Kir	t BAYECMT004	BAYECMT004	BAYECMT004	BAYECMT004		
Vertical Discharge Air Kit Base	4 BAYVDTA003	BAYVDTA004	BAYVDTA004	BAYVDTA004		
Auto Charge Solenoid Kit	BAYCAKT001	BAYCAKT001	BAYCAKT001	BAYCAKT001		
Refrigerant Lineset 5	TAYREFLN9*	TAYREFLN7*	TAYREFLN3*	TAYREFLN4*		

Certified in accordance with the Air-Source Unitary Heat Pump Equipment certification program which is based on AHRI Standard 210/240.
 Calculated in accordance with N.E.C. Only use HACR circuit breakers or fuses.
 Standard line lengths - 60'. Standard lift - 25' Suction and Liquid line.
 For Greater lengths and lifts refer to refrigerant piping software Pub# 32-3312-0\*. (\*denotes latest revision)

### **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	
4A6H7024A1	72	67	67	62	63	62	57	55	50	
4A6H7036B1	72	66	66	64	64	63	57	54	48	
4A6H7048A1	72	68	73	65	67	63	56	53	47	
4A6H7060A1	74	58	75	66	68	66	59	55	52	

Note: Rated in accordance with AHRI Standard 270-2008

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



# General Data

### **Accessory Description and Usage**

**Rubber Isolators** — 5 rubber donuts to isolate condensing unit from mounting frame or pad. Use on any application where sound transmission needs to be minimized.

**Extreme Conditions Mounting 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 rooftops, etc.

**Low Ambient Cooling** — For low ambient cooling below 55° see Application Guide APP-APG013-EN.

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

AHRI STANDARD 210/240 RATING CONDITIONS —

- (A) Cooling 80°F DB, 67°F WB air entering indoor coil, 95°F DB air entering outdoor coil.
- (B) High Temperature Heating 47°F DB, 43°F WB air entering outdoor coil, 70°F DB air entering indoor coil.
- (C) Low Temperature Heating 17°F DB, 15°F WB air entering outdoor coil, 70°F DB air entering indoor coil.
- (D) 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.



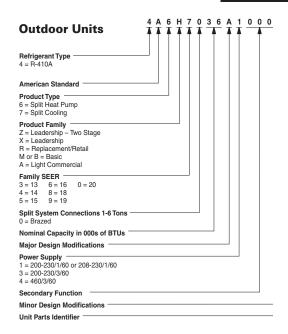


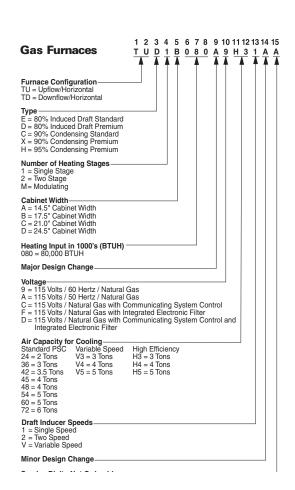
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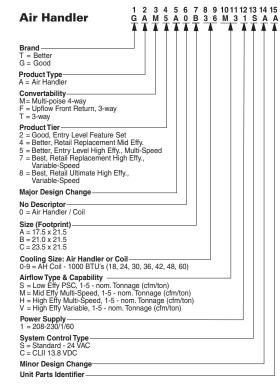


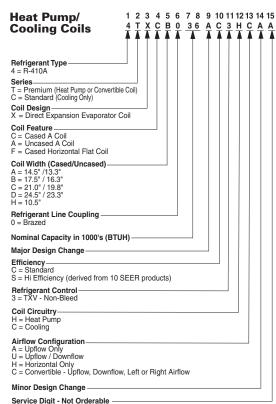
## Model Nomenclature

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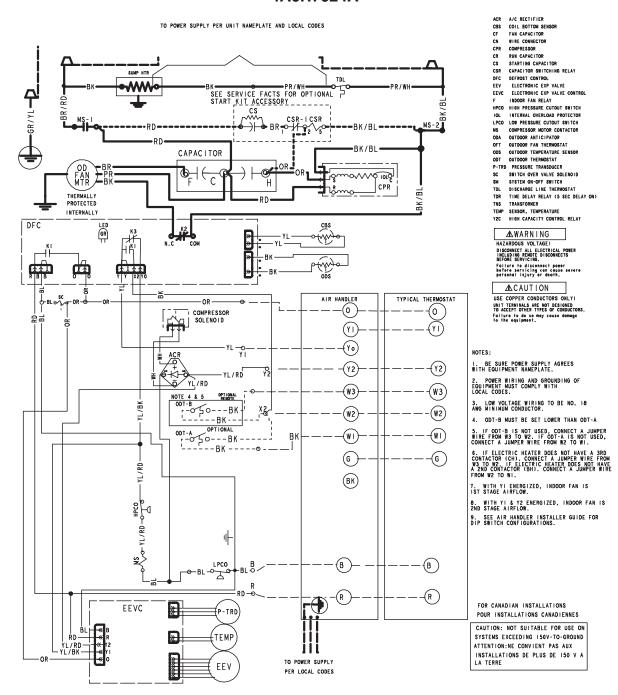


# Electrical Data

### **Schematic Diagrams**

(SEE LEGEND)

#### 4A6H7024A



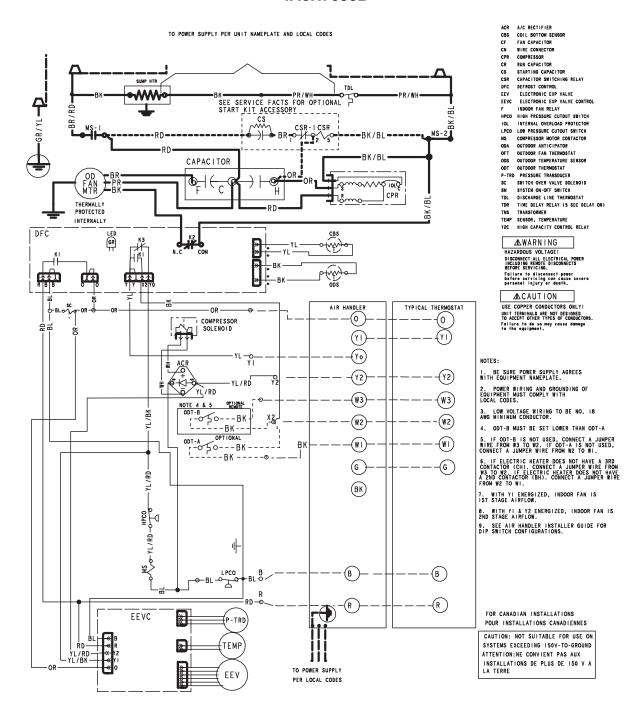


# Electrical Data

### **Schematic Diagrams**

(SEE LEGEND)

#### 4A6H7036B



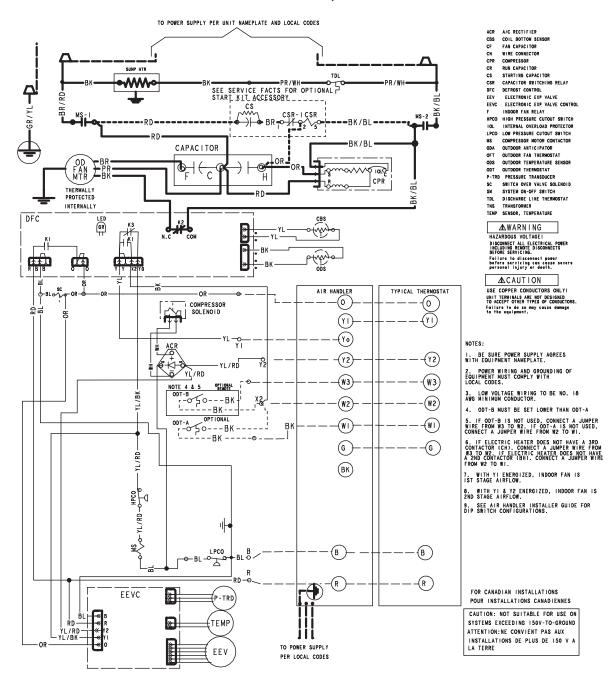


# Electrical Data

### **Schematic Diagrams**

(SEE LEGEND)

## 4A6H7048A, 060A

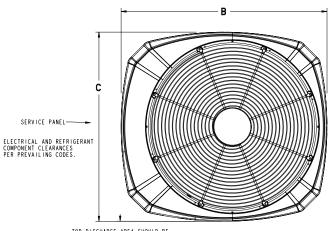




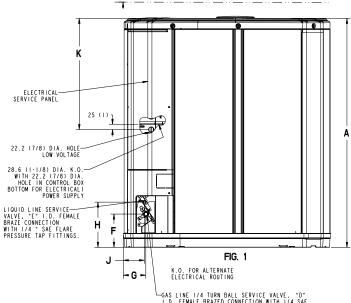
# **Dimensions**

## **4A6H7 Outline Drawing**

Note: All dimensions are in MM (Inches).



TOP DISCHARGE AREA SHOULD BE
UNRESTRICTED FOR AT LEAST 1524 (5 FEET)
MOVE 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 SHRUBBERY ON TWO SIDES.
OTHER TWO SIDES UNRESTRICTED.



-GAS LINE I/4 TURN BALL SERVICE VALVE, "D" I.D. FEMALE BRAZED CONNECTION WITH I/4 SAE FLARE PRESSURE TAP FITTING.

MODELS	BASE	Α	В	С	D	E	F	G	Н	J	К
4A6H7024A	4	1045 (41 1/8)	946 (37-1/4)	870 (34-1/4)	5/8	3/8	152 (6)	98 (3-7/8)	219 (8-5/8)	86 (3-3/8)	711 (28)
4A6H7036B	4	1045 (41 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)	711 (28)
4A6H7048A	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)
4A6H7060A	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)



# Mechanical **Specifications**

#### General

The 4A6H7 is fully 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 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 shall be certified to UL 1995. Exterior is designed for outdoor application.

#### Casing

Unit casing is constructed of heavy gauge, G60 galvanized steel and painted with a weather-resistant powder paint on all louvers and panels. Corrosion and weatherproof CMBP-G30 DuraBase™ base.

#### **Refrigerant Controls**

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

#### Compressor

The Duration™ 2-stage compressor features internal over temperature and pressure protection and hermetic motor. Other features include centrifugal oil pump and modular plugs for electrical connections.

#### **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. For low ambient cooling below 55° see Application Guide APP-APG014-EN.





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