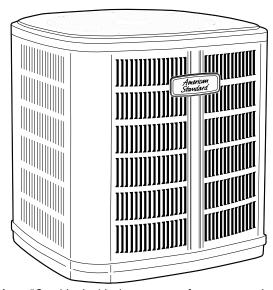


# **Product Data**

# **Split System Cooling**

4A7A4018L1000A 4A7A4024L1000A 4A7A4025L1000A 4A7A4030L1000A 4A7A4031L1000A 4A7A4036L1000A 4A7A4037L1000A 4A7A4042L1000A 4A7A4043L1000A 4A7A4048L1000A 4A7A4060L1000A



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





# **Product Specifications**

	T	T		1	
Model No. (a)	4A7A4018L1000A	4A7A4024L1000A/ 4A7A4025L1000A	4A7A4030L1000A/ 4A7A4031L1000A	4A7A4036L1000A/ 4A7A4037L1000A	
POWER CONNS. — V/PH/HZ (b)	208/230/1/60	208/230/1/60	208/230/1/60	208/230/1/60	
MIN. BRCH. CIR. AMPACITY	12	14	17	18	
BR. CIR. PROT. RTG. — MAX. (AMPS)	20	25	25	30	
COMPRESSOR	DURATION®- SCROLL	DURATION®- SCROLL	DURATION®- SCROLL	DURATION®- SCROLL	
RL AMPS — LR AMPS	9 — 63	10.9 — 63	12.8—68	14.1—72	
Outdoor Fan FL AMPS	0.60	0.60	0.77/.64	0.77/.64	
Fan HP	1/15	1/15	1/8	1/8	
Fan Dia (inches)	18.2	18.2	23.0	23.0	
Coil	SPINE FIN™	SPINE FIN™	SPINE FIN™	SPINE FIN™	
Refrigerant R-410A	4 LBS., 8 OZ	4 LBS., 11 OZ	5 LBS., 4 OZ	6 LBS., 1 OZ	
LINE SIZE — IN. O.D. GAS (c)	3/4	3/4	3/4	3/4	
LINE SIZE — IN. O.D. LIQ. (c)	3/8	3/8	3/8	3/8	
Charge Spec. Subcooling	10°F	10°F	10°F	10°F/(8°Fon 037)	
Dimensions H x W X D Crated (IN.)	30.1 x 26.7 x 30	30.1 x 26.7 x 30	34 x 30.1 x 33	38 x 30.1 x 33	
Weight — Shipping (lbs.)	153	153	183	183	
Weight — Net (lbs.)	133	133	156	156	
Optional Accessories:					
Anti-short Cycle Timer	TAYASCT501A	TAYASCT501A	TAYASCT501A	TAYASCT501A	
Evaporator Defrost Control	AY28X079	AY28X079	AY28X079	AY28X079	
Rubber Isolator Kit	BAYISLT101	BAYISLT101	BAYISLT101	BAYISLT101	
Extreme Condition Mount Kit	BAYECMT023	BAYECMT023	BAYECMT023	BAYECMT023	
Start Kit	BAYKSKT263	_	BAYKSKT263	BAYKSKT263	
Crankcase Heater Kit	BAYCCHT302	BAYCCHT302	BAYCCHT302	BAYCCHT302	
Seacoast Kit	BAYSEAC001	BAYSEAC001	BAYSEAC001	BAYSEAC001	
Low Ambient Kit	BAYLOAM103	BAYLOAM103	BAYLOAM103	BAYLOAM103	
Refrigerant Lineset (d)	TAYREFLN7*	TAYREFLN7*	TAYREFLN7*	TAYREFLN7*	
Service Valve Panel Cover	AAYSVPANL0022AA	AAYSVPANL0022AA	AAYSVPANL0032AA	AAYSVPANL3343AA	

<sup>(</sup>a) Certified in accordance with the Unitary Air-conditioner equipment certification program which is based on AHRI standard

 <sup>(</sup>a) Calculated in accordance with N.E.C. Only use HACR circuit breakers or fuses.
 (b) Calculated in accordance with N.E.C. Only use HACR circuit breakers or fuses.
 (c) Standard line lengths — 60', Standard lift — 60' Suction and Liquid line. For Greater lengths and lifts refer to refrigerant piping software Pub#32–3312–0\* (\* denotes latest revision)..
 (d) \* = 15, 20, 25, 30, 40 and 50 foot lineset available.

## **Product Specifications**

Model No. (a)	4A7A042L1000A/ 4A7A043L1000A	4A7A4048L1000A	4A7A4060L1000A		
POWER CONNS. — V/PH/HZ (b)	280/230/1/60	280/230/1/60	280/230/1/60		
MIN. BRCH. CIR. AMPACITY	22	24	31		
BR. CIR. PROT. RTG. — MAX. (AMPS)	35	40	50		
COMPRESSOR	DURATION®- SCROLL	DURATION®- SCROLL	DURATION®- SCROLL		
RL AMPS — LR AMPS	16.7 — 109	18.5 — 124	23.7 — 152.5		
Outdoor Fan FL AMPS	1.05	1.05	1.05		
Fan HP	1/5	1/5	1/5		
Fan Dia (inches)	27.5	27.5	27.5		
Coil	SPINE FIN™	SPINE FIN™	SPINE FIN™		
Refrigerant R-410A	6 LBS., 7 OZ	6 LBS., 9 OZ	7 LBS., 10 OZ		
LINE SIZE — IN. O.D. GAS (c)	7/8	7/8	7/8		
LINE SIZE — IN. O.D. LIQ. (c)	3/8	3/8	3/8		
Charge Spec. Subcooling	12°F	10°F	10°F		
Dimensions H x W X D Crated (IN.)	34.4 x 35.1 x 38.7	34.4 x 35.1 x 38.7	42.4 x 35.1 x 38.7		
Weight — Shipping (lbs.)	216	212	246		
Weight — Net (lbs.)	184	189	211		
Optional Accessories:					
Anti-short Cycle Timer	TAYASCT501A	TAYASCT501A	TAYASCT501A		
Evaporator Defrost Control	AY28X079	AY28X079	AY28X079		
Rubber Isolator Kit	BAYISLT101	BAYISLT101	BAYISLT101		
Extreme Condition Mount Kit	BAYECMT004	BAYECMT004	BAYECMT004		
Start Kit	BAYKSKT263	BAYKSKT263	BAYKSKT263		
Crankcase Heater Kit	BAYCCHT301	BAYCCHT301	BAYCCHT301		
Seacoast Kit	BAYSEAC001	BAYSEAC001	BAYSEAC001		
Low Ambient Kit	BAYLOAM103	BAYLOAM103	BAYLOAM103		
Refrigerant Lineset (d)	TAYREFLN3*	TAYREFLN3*	TAYREFLN3*		
Service Valve Panel Cover			AAYSVPANL0044AA		

<sup>(</sup>a) Certified in accordance with the Unitary Air-conditioner equipment certification program which is based on AHRI standard (a) Certified in accordance with the onitary an exhaustion of square and conditions. Square 210/240.
 (b) Calculated in accordance with N.E.C. Only use HACR circuit breakers or fuses.
 (c) Standard line lengths — 60', Standard lift — 60' Suction and Liquid line. For Greater lengths and lifts refer to refrigerant piping software Pub#32–3312–0\* (\* denotes latest revision)..
 (d) \* = 15, 20, 25, 30, 40 and 50 foot lineset available.

MODEL	SOUND POWER LEVEL [dB(A)]	A-WEIGHTED FULL OCTAVE SOUND POWER LEVEL dB [dB(A)]								
		63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	
4A7A4018L1	71	74	71	65	68	67	63	56	50	
4A7A4024L1 4A7A4025L1	71	74	71	65	68	67	63	56	50	
4A7A4030L1 4A7A4031L1	71	73	73	72	69	68	60	52	45	
4A7A4036L1 4A7A4037L1	71	73	73	72	69	68	60	52	45	
4A7A4042L1 4A7A4043L1	71	81	72	69	69	66	60	57	54	
4A7A4048L1	71	81	72	69	69	66	60	57	54	
4A7A4060L1	71	81	72	69	69	66	60	57	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.

**Hard Start Kit** — 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.

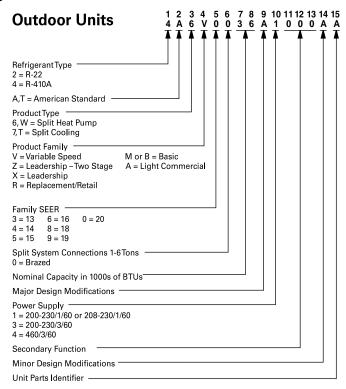
## **AHRI Standard Capacity Rating Conditions**

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 indoor coil.
- 4. Rated indoor airflow for heating is the same as for cooling.

**AHRI Standard 270 Rating Conditions** — (Noise rating numbers are determiend with the unit in cooling operations.) Standard Noise Rating number is at 95°F outdoor air.

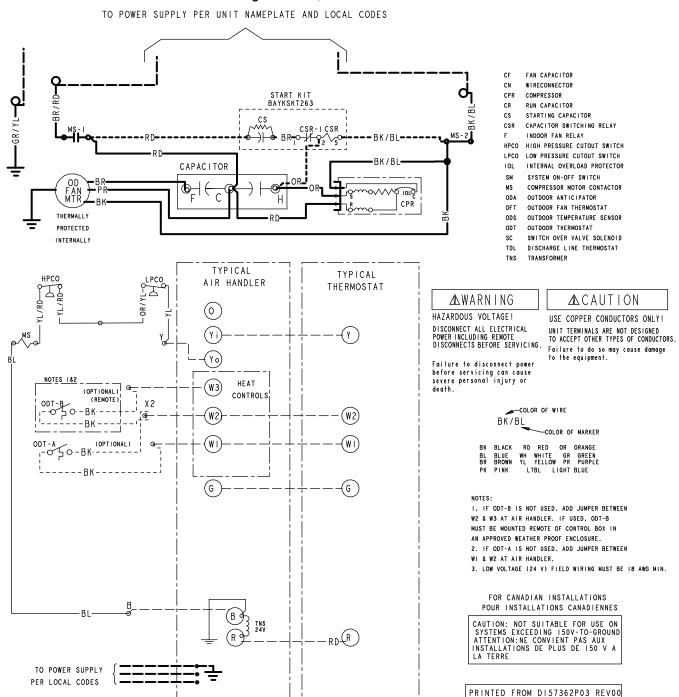
## **Model Nomenclature**





# **Schematic Diagrams**

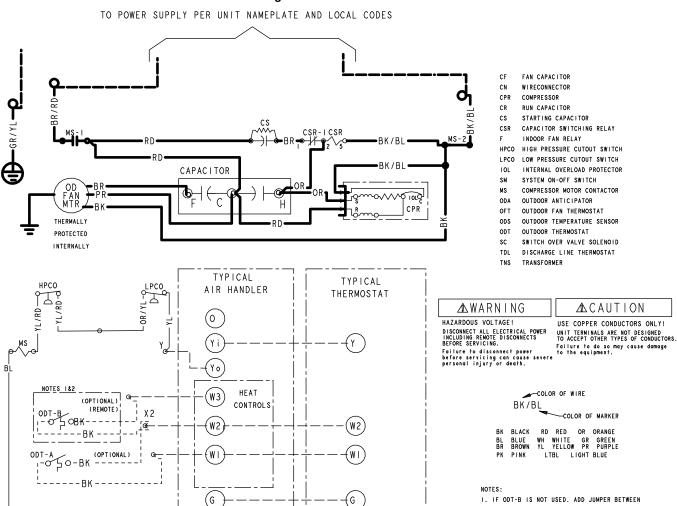
Figure 1. 1.5, 2.5 — 4.0 Ton Models



## **Schematic Diagrams**

TO POWER SUPPLY PER LOCAL CODES

Figure 2. 2.0 Ton Models



W2 & W3 AT AIR HANDLER. IF USED, ODT-B MUST BE MOUNTED REMOTE OF CONTROL BOX IN AN APPROVED WEATHER PROOF ENCLOSURE. 2. IF ODT-A IS NOT USED. ADD JUMPER BETWEEN

WI & W2 AT AIR HANDLER.

3. LOW VOLTAGE {24 V} FIELD WIRING MUST BE 18 AWG MIN.

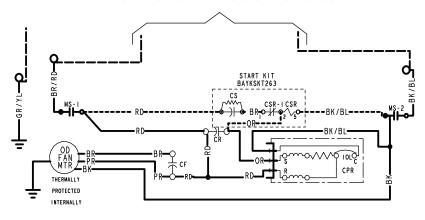
> FOR CANADIAN INSTALLATIONS POUR INSTALLATIONS CANADIENNES

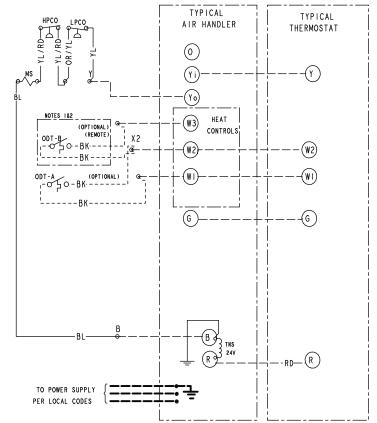
CAUTION: NOT SUITABLE FOR USE ON SYSTEMS EXCEEDING 150V-TO-GROUND ATTENTION: NE CONVIENT PAS AUX INSTALLATIONS DE PLUS DE 150 V A LA TERRE

PRINTED FROM DI57362P04 REVA

Figure 3. 5.0 Ton Models

TO POWER SUPPLY PER UNIT NAMEPLATE AND LOCAL CODES





PRINTED FROM D157048P01

FAN CAPACITOR WIRECONNECTOR CPR COMPRESSOR RUN CAPACITOR CR STARTING CAPACITOR CSR CAPACITOR SWITCHING RELAY INDOOR FAN RELAY HPCO HIGH PRESSURE CUTOUT SWITCH LPCO LOW PRESSURE CUTOUT SWITCH IOL INTERNAL OVERLOAD PROTECTOR SYSTEM ON-OFF SWITCH COMPRESSOR MOTOR CONTACTOR ODA OUTDOOR ANTICIPATOR OUTDOOR FAN THERMOSTAT OUTDOOR TEMPERATURE SENSOR OUTDOOR THERMOSTAT SWITCH OVER VALVE SOLENOID DISCHARGE LINE THERMOSTAT



TRANSFORMER

BLACK RD RED OR ORANGE BLUE WH WHITE GR GREEN BROWN YL YELLOW PR PURPLE

### **△**WARNING

HAZARDOUS VOLTAGE! DISCONNECT ALL ELECTRICAL POWER INCLUDING REMOTE DISCONNECTS BEFORE SERVICING. Failure to disconnect power

before servicing can cause severe personal injury or death.

### **∆**CAUTION

USE COPPER CONDUCTORS ONLY! UNIT TERMINALS ARE NOT DESIGNED TO ACCEPT OTHER TYPES OF CONDUCTORS. Failure to do so may cause damage to the equipment.

I. IF ODT-B IS NOT USED. ADD JUMPER BETWEEN W2 & W3 AT AIR HANDLER. IF USED, ODT-B MUST BE MOUNTED REMOTE OF CONTROL BOX IN AN APPROVED WEATHER PROOF ENCLOSURE. 2. IF ODT-A IS NOT USED. ADD JUMPER BETWEEN WI & W2 AT AIR HANDLER.

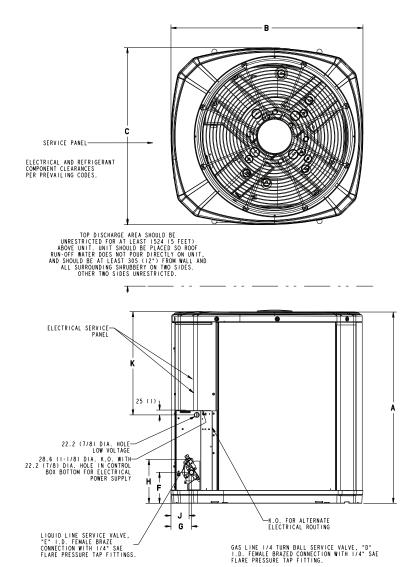
3. LOW VOLTAGE (24 V) FIELD WIRING MUST BE 18 AWG MIN.

FOR CANADIAN INSTALLATIONS POUR INSTALLATIONS CANADIENNES

CAUTION: NOT SUITABLE FOR USE ON SYSTEMS EXCEEDING 150V-TO-GROUND ATTENTION: NE CONVIENT PAS AUX INSTALLATIONS DE PLUS DE 150 V A LA TERRE



# **Outline Drawing**



Model	Base	Α	В	С	D	Е	F	G	Н	J	K
4A7A4018L	2	730 (28-3/4)	724 (28-1/2)	651 (25-5/8)	3/4	3/8	127 (5)	57 (2-1/4)	194 (7-5/8)	38 (1-1/2)	457 (18)
4A7A4024L 4A7A4025L	2	730 (28-3/4)	724 (28-1/2)	651 (25-5/8)	3/4	3/8	127 (5)	57 (2-1/4)	194 (7-5/8)	38 (1-1/2)	457 (18)
4A7A4030L 4A7A4031L	3	730 (28-3/4)	829 (32-5/8)	756 (29-3/4)	3/4	3/8	127 (5)	76 (3)	197 (7-3/4)	60 (2-3/8)	508 (20)
4A7A4036L 4A7A4037L	3	832 (32-3/4)	829 (32-5/8)	756 (29-3/4)	3/4	3/8	127 (5)	76 (3)	197 (7-3/4)	60 (2-3/8)	508 (20)
4A7A4042L 4A7A4043L	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)
4A7A4048L	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)
4A7A4060L	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)



# **Mechanical Specification Options**

### General

The Outdoor Units are 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, galvanized steel and painted with a weather-resistant powder paint finish on all louvered panels and the fan top panel. The corner panels are prepainted. All panels are subjected to our 1,000 hour salt spray test. The base is made of a CMBP-G30 weatherproof material to resist corrosion.

## **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 supplied liquid line drier is standard. Some models may require field installation.

### Compressor

The compressor features internal over temperature, 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 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.

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

**Evaporator Defrost Control** — See Low Ambient Cooling.



## **Notes**









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12-1365-1F-EN 05 Mar 2015

Supersedes 12-1365-1E-EN (February 2015)

