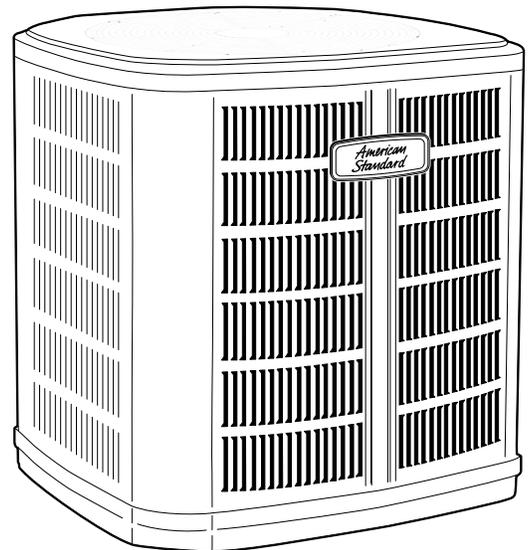


# Product Data

## Split System Cooling

4A7A5018N1000A  
4A7A5024N1000A  
4A7A5030N1000A  
4A7A5036N1000A  
4A7A5042N1000A  
4A7A5048N1000A  
4A7A5060N1000A



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

# Product Specifications

Model No. <sup>(a)</sup>	4A7A5018N1000A	4A7A5024N1000A	4A7A5030N1000A	4A7A5036N1000A
POWER CONNS. – V/PH/HZ <sup>(b)</sup>	208/230/1/60	208/230/1/60	208/230/1/60	208/230/1/60
MIN. BRCH. CIR. AMPACITY	12	13	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 – 47.5	10.1 – 52	12.8 – 67.8	13.6 – 79
Outdoor Fan FL AMPS	0.64	0.64	0.64	0.77
Fan HP	1/8	1/8	1/8	1/8
Fan Dia (inches)	23.02	23.02	23.02	24
Coil	SPINE FIN™	SPINE FIN™	SPINE FIN™	SPINE FIN™
Refrigerant R-410A	4 LBS., 15 OZ	4 LBS., 11 OZ	5 LBS., 8 OZ	6 LBS., 8 OZ
VALVE CONNECTION SIZE – IN. O.D. GAS	3/4	3/4	3/4	3/4
VALVE CONNECTION SIZE – IN. O.D. LIQ.	3/8	3/8	3/8	3/8
LINE SIZE – IN. O.D. GAS <sup>(c)</sup>	3/4	3/4	3/4	7/8
LINE SIZE – IN. O.D. LIQ.	3/8	3/8	3/8	3/8
Charge Spec. Subcooling	8°F	8°F	8°F	8°F
Dimensions H x W X D Crated (IN.)	34 x 30.1 x 33	34 x 30.1 x 33	42 x 30.1 x 33	42 x 35.1 x 38.7
Weight – Shipping (lbs.)	189	190	220	246
Weight – Net (lbs.)	161	162	184	212
<b>Optional Accessories:</b>				
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	BAYECMT004
Start Kit	BAYKSKT263	BAYKSKT263	BAYKSKT263	BAYKSKT263
Crankcase Heater Kit	BAYCCHT302	BAYCCHT302	BAYCCHT302	BAYCCHT302
Seacoast Kit	BAYSEAC001	BAYSEAC001	BAYSEAC001	BAYSEAC001
Low Ambient Kit	BAYLOAM103	BAYLOAM103	BAYLOAM103	BAYLOAM103
Service Valve Panel Cover	AAYSVPANL0032AA	AAYSVPANL0032AA	AAYSVPANL0044AA	AAYSVPANL0044AA
Refrigerant Lineset <sup>(d)</sup>				

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

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

<sup>(c)</sup> 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).

<sup>(d)</sup> 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**

Model No. <sup>(a)</sup>	4A7A5042N1000A	4A7A5048N1000A	4A7A5060N1000A
POWER CONNS. – V/PH/HZ <sup>(b)</sup>	208/230/1/60	208/230/1/60	208/230/1/60
MIN. BRCH. CIR. AMPACITY	21	24	28
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	21.9 – 118.7
Outdoor Fan FL AMPS	0.64	0.93	0.97
Fan HP	1/8	1/5	1/5
Fan Dia (inches)	27.5	27.5	27.5
Coil	SPINE FIN™	SPINE FIN™	SPINE FIN™
Refrigerant R-410A	8 LBS., 2 OZ	7 LBS., 2 OZ	9 LBS., 8 OZ
VALVE CONNECTION SIZE – IN. O.D. GAS	7/8	7/8	7/8
VALVE CONNECTION SIZE – IN. O.D. LIQ.	3/8	3/8	3/8
LINE SIZE – IN. O.D. GAS <sup>(c)</sup>	7/8	7/8	1-1/8
LINE SIZE – IN. O.D. LIQ.	3/8	3/8	3/8
Charge Spec. Subcooling	8°F	8°F	10°F
Dimensions H x W X D Crated (IN.)	50.4 x 35.1 x 38.7	50.4 x 35.1 x 38.7	50.4 x 35.1 x 38.7
Weight – Shipping (lbs.)	302	306	302
Weight – Net (lbs.)	252	256	252
<b>Optional Accessories:</b>			
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	BAYCCHT302	BAYCCHT302	BAYCCHT302
Seacoast Kit	BAYSEAC001	BAYSEAC001	BAYSEAC001
Low Ambient Kit	BAYLOAM103	BAYLOAM103	BAYLOAM103
Service Valve Panel Cover	AAYSVPANL0046AA	AAYSVPANL0046AA	AAYSVPANL0046AA
Refrigerant Lineset <sup>(d)</sup>			

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

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

<sup>(c)</sup> 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).

<sup>(d)</sup> 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
4A7A5018N	73	79	69	67	70	70	64	59	53
4A7A5024N	73	79	69	67	70	70	64	59	53
4A7A5030N	73	79	69	67	70	70	64	59	53
4A7A5036N	71	78	72	69	68	66	61	58	53
4A7A5042N	72	81	75	71	70	68	63	58	53
4A7A5048N	72	81	75	71	70	68	63	58	53
4A7A5060N	71	81	75	71	70	68	63	58	53

Note: Rated in accordance with AHRI Standard 270-2008 \*For Reference Only

## 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.

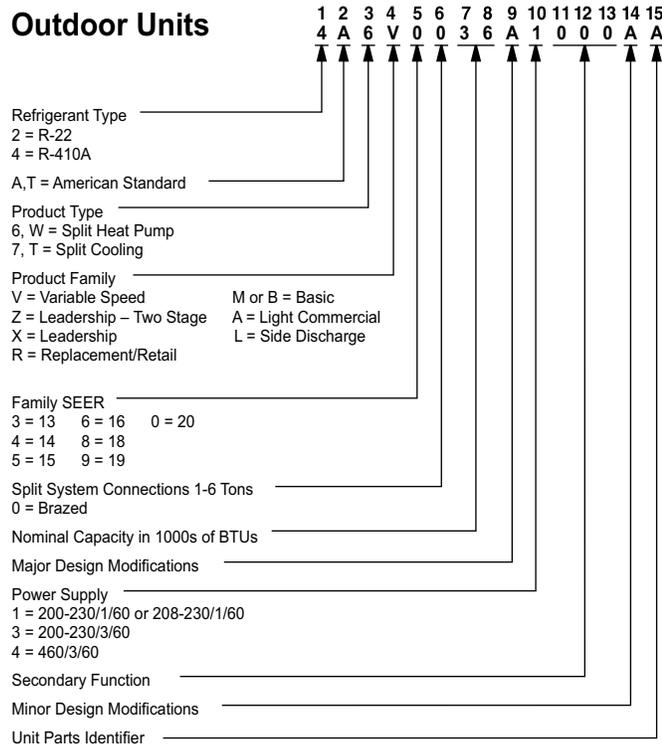
### AHRI Standard Capacity Rating Conditions

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 determined with the unit in cooling operations.) Standard Noise Rating number is at 95°F outdoor air.

## Model Nomenclature



## Schematic Diagrams

Figure 1. 018N – 048N Models

TO POWER SUPPLY PER UNIT NAMEPLATE AND LOCAL CODES

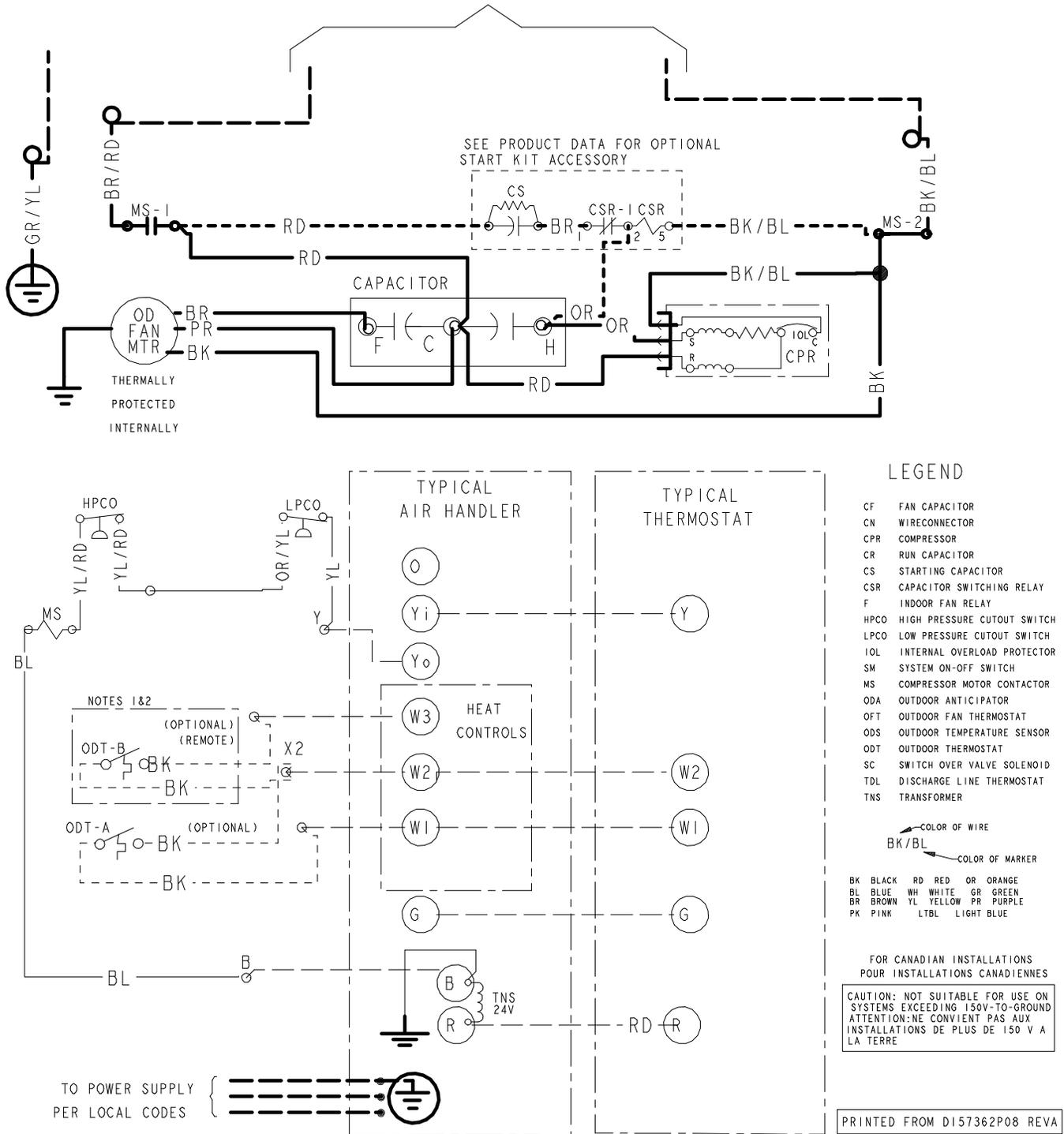


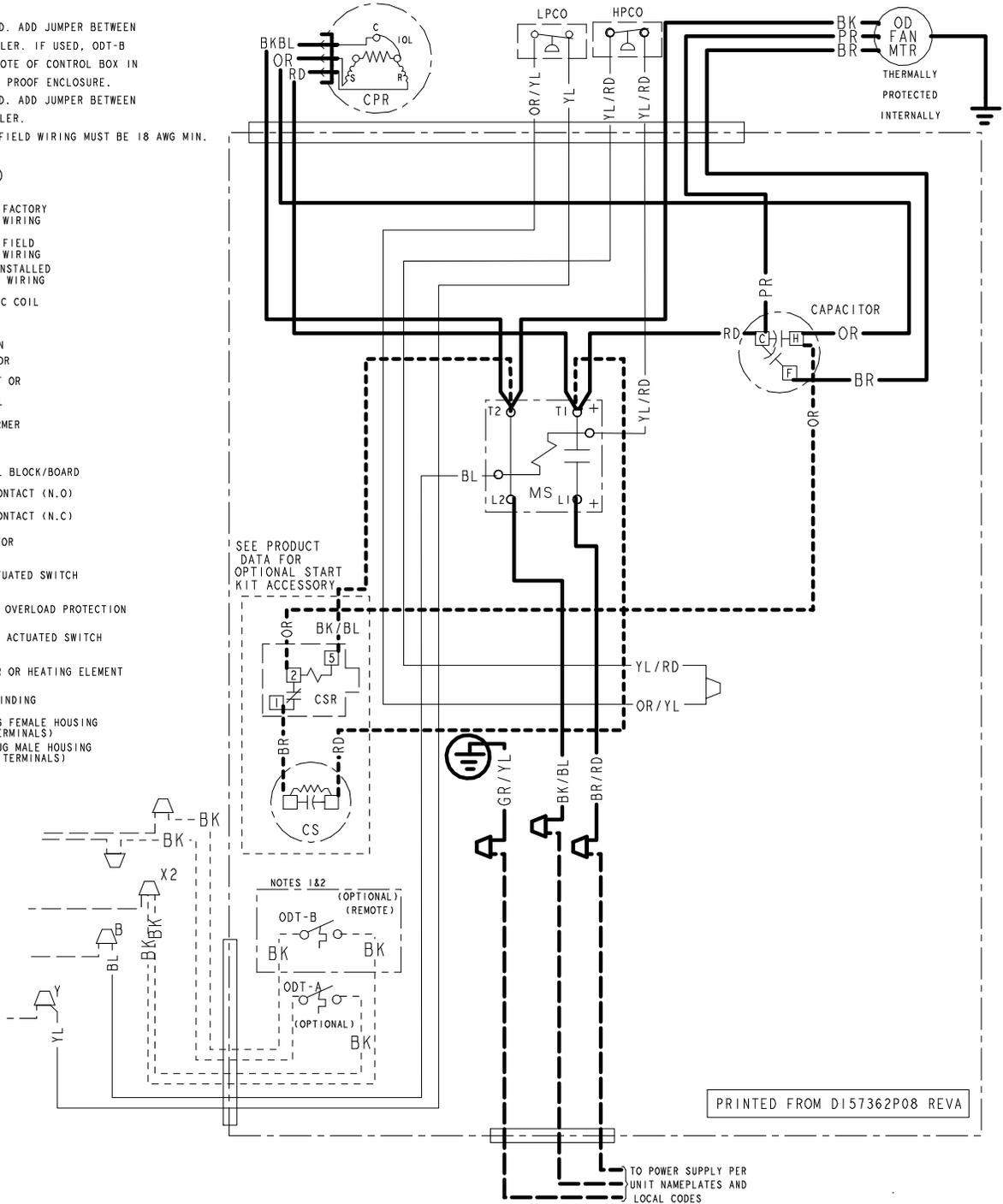
Figure 2. 018N – 048N Models

NOTES:

1. 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 W1 & W2 AT AIR HANDLER.
3. LOW VOLTAGE (24 V) FIELD WIRING MUST BE 18 AWG MIN.

LEGEND

- 24 V LINE WIRING
- 24 V FIELD WIRING
- FIELD INSTALLED FACTORY WIRING
- MAGNETIC COIL
- GROUND
- JUNCTION
- CAPACITOR
- WIRE NUT OR TERMINAL
- TRANSFORMER
- FUSE
- TERMINAL BLOCK/BOARD
- RELAY CONTACT (N.O.)
- RELAY CONTACT (N.C.)
- THERMISTOR
- TEMP ACTUATED SWITCH
- INTERNAL OVERLOAD PROTECTION
- PRESSURE ACTUATED SWITCH
- RESISTOR OR HEATING ELEMENT
- MOTOR WINDING
- POL. PLUG FEMALE HOUSING (MALE TERMINALS)
- POL. PLUG MALE HOUSING (FEMALE TERMINALS)



Schematic Diagrams

Figure 3. 060N Models

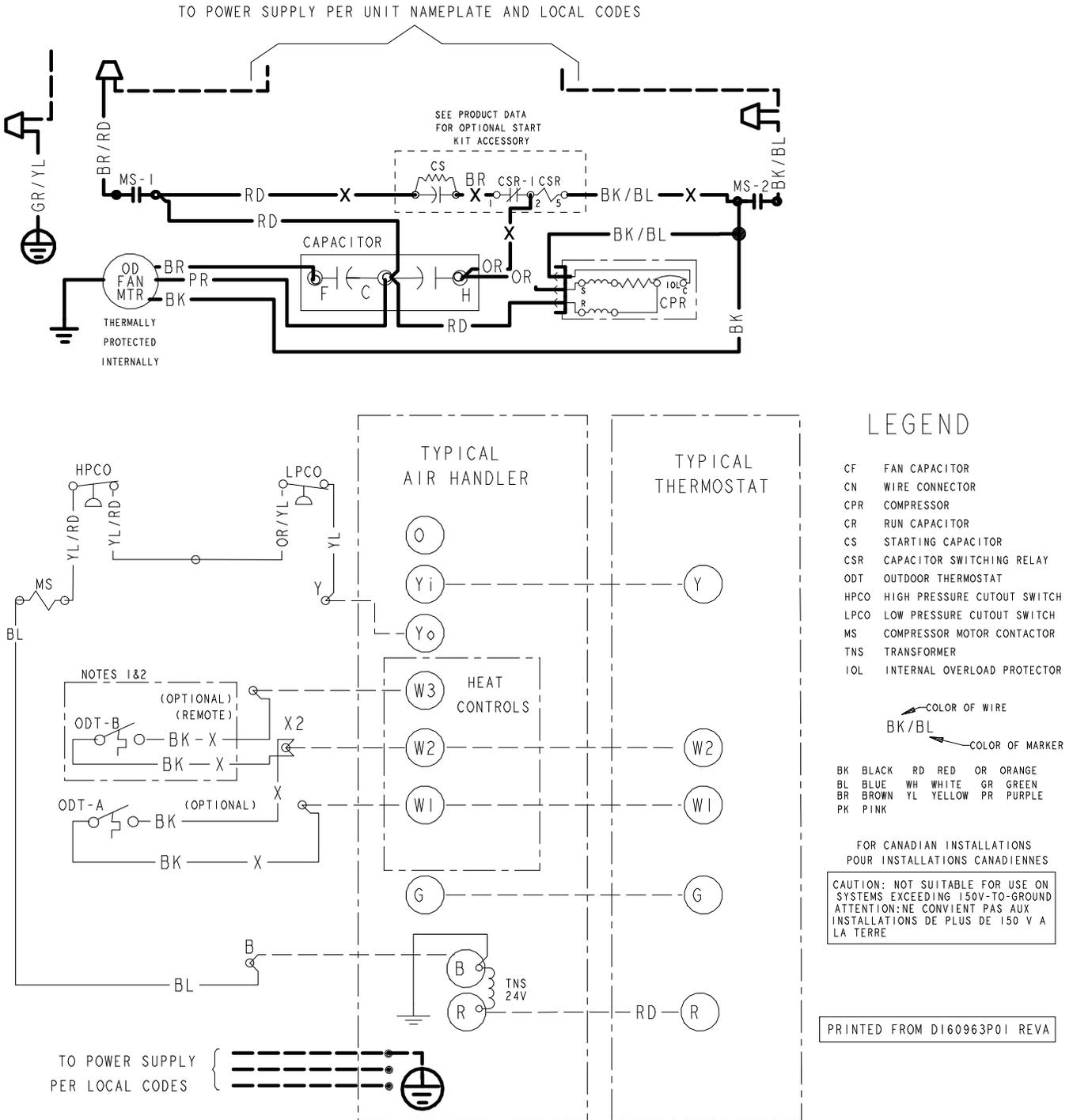


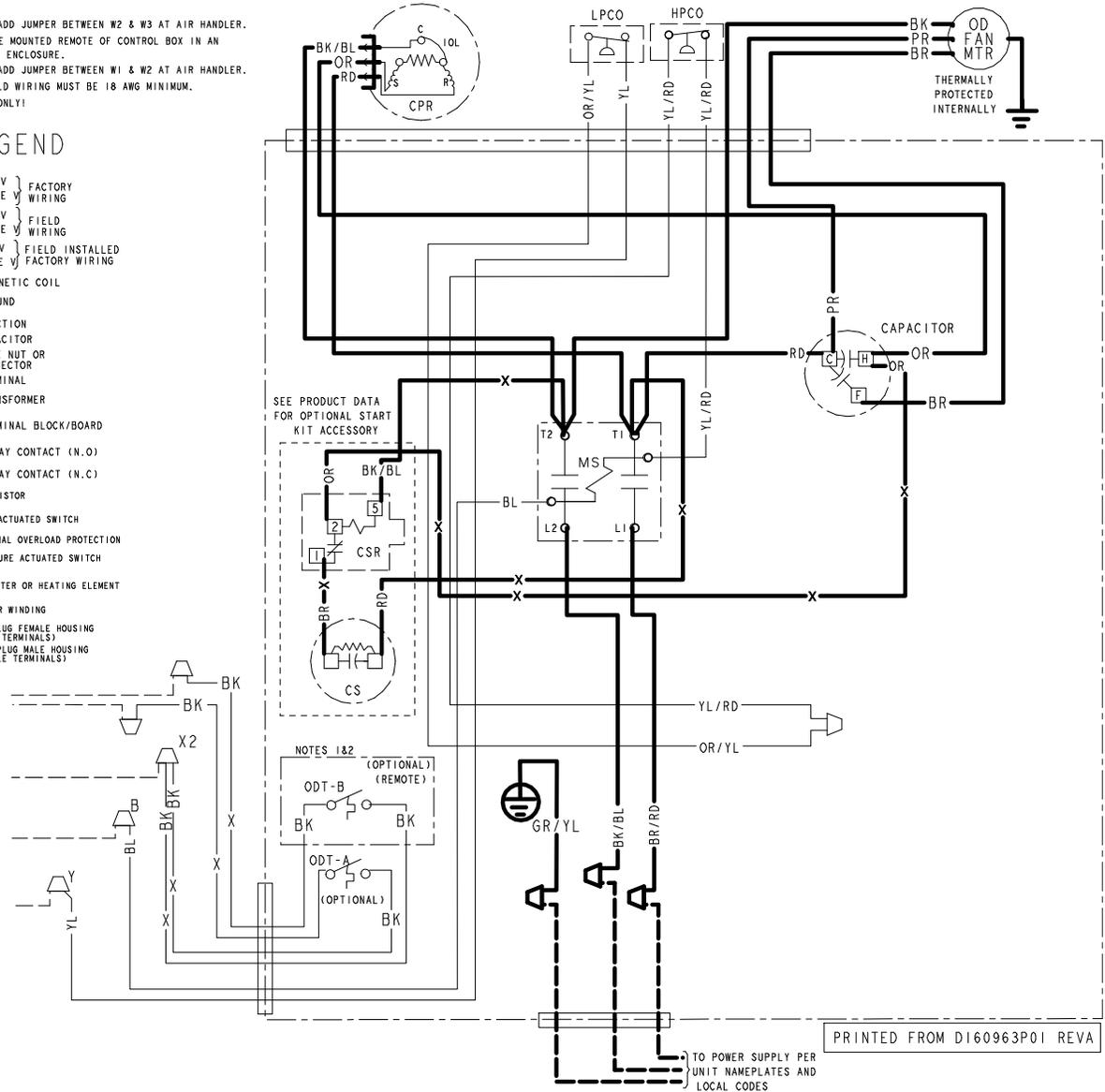
Figure 4. 060N Models

NOTES:

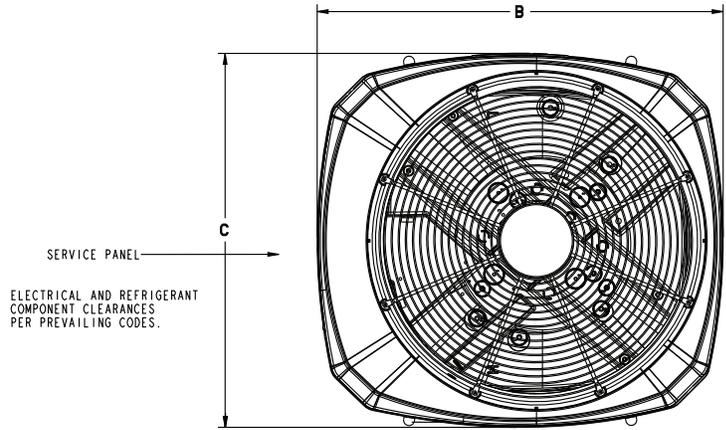
1. IF ODT-B IS NOT USED. ADD JUMPER BETWEEN W2 & W3 AT AIR HANDLER.  
IF USED, ODT-B MUST BE MOUNTED REMOTE OF CONTROL BOX IN AN APPROVED WEATHER PROOF ENCLOSURE.
2. IF ODT-A IS NOT USED. ADD JUMPER BETWEEN W1 & W2 AT AIR HANDLER.
3. LOW VOLTAGE (24 V) FIELD WIRING MUST BE 18 AWG MINIMUM.
4. USE COPPER CONDUCTORS ONLY!

LEGEND

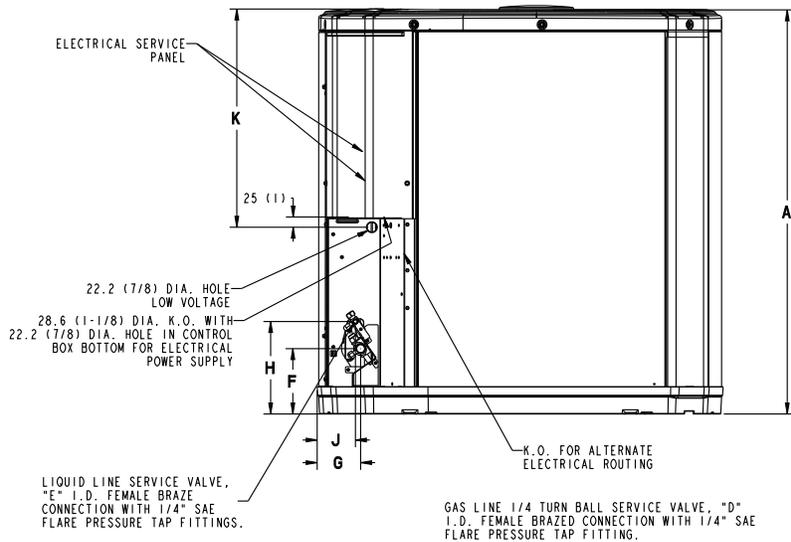
- 24 V } FACTORY WIRING
- LINE } WIRING
- 24 V } FIELD WIRING
- LINE } WIRING
- 24 V } FIELD INSTALLED
- LINE } WIRING
- MAGNETIC COIL
- GROUND
- JUNCTION
- CAPACITOR
- WIRE NUT OR CONNECTOR
- TERMINAL
- TRANSFORMER
- TERMINAL BLOCK/BOARD
- RELAY CONTACT (N.O.)
- RELAY CONTACT (N.C.)
- THERMISTOR
- TEMP ACTUATED SWITCH
- INTERNAL OVERLOAD PROTECTION
- PRESSURE ACTUATED SWITCH
- RESISTOR OR HEATING ELEMENT
- MOTOR WINDING
- POL. PLUG FEMALE HOUSING (MALE TERMINALS)
- POL. PLUG MALE HOUSING (FEMALE TERMINALS)



## Outline Drawing



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



Model	Base	A	B	C	D	E	F	G	H	J	K
4A7A5018N	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)
4A7A5024N	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)
4A7A5030N	3	933 (36-3/4)	829 (32-5/8)	756 (29-3/4)	3/4	3/8	143 (5-5/8)	92 (3-5/8)	210 (8-1/4)	79 (3-1/8)	508 (20)
4A7A5036N	4	943 (37-1/8)	946 (37-1/4)	870 (34-1/4)	3/4	3/8	143 (5-5/8)	98 (3-7/8)	219 (8-5/8)	86 (3-3/8)	508 (20)
4A7A5042N	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)
4A7A5048N	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)
4A7A5060N	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.

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12-1430-1A-EN 29 Jul 2022  
Supersedes (New)

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