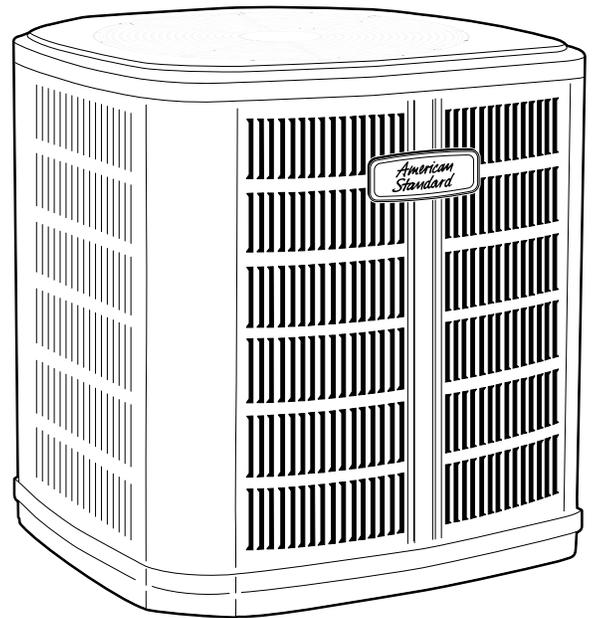


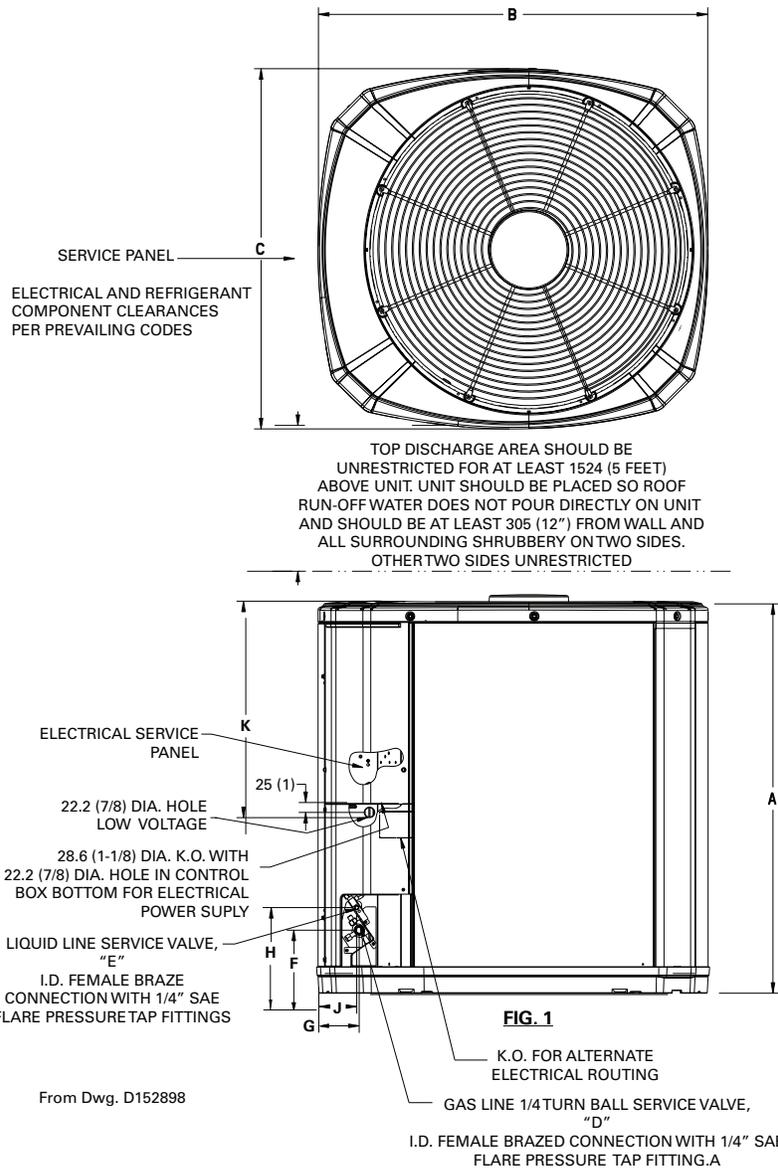
# Product Data

## Split System Cooling

4A7A3018N1000A  
4A7A3024N1000A  
4A7A3030N1000A  
4A7A3030N1000B  
4A7A3036N1000A  
4A7A3042N1000A  
4A7A3048N1000A  
4A7A3060N1000A



## Outline Drawing



Model	Base	A	B	C	D	E	F	G	H	J	K
4A7A3018N	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)
4A7A3024N	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)
4A7A3030N	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)
4A7A3036N	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)
4A7A3042N	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)
4A7A3048N	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)
4A7A3060N	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)

## Product Specifications

<b>Model No.</b> <sup>(a)</sup>	4A7A3018N1000A	4A7A3024N1000A	4A7A3030N1000A/B	4A7A3036N1000A
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	12	17 / 14	16
BR. CIR. PROT. RTG. – MAX. (AMPS)	20	20	25	25
COMPRESSOR	DURATION™ - SCROLL	DURATION™ - SCROLL	DURATION™ - SCROLL	DURATION™ - SCROLL
RL AMPS – LR AMPS	9 – 63	10.1 – 52	12.8 – 68 / 10.9 – 62.6	12.2 – 80.1
Outdoor Fan FL AMPS	0.9	0.9	0.77	0.77
Fan HP	1/8	1/8	1/8	1/8
Fan Dia (inches)	18.2	18.2	23	23
Coil	SPINE FIN™	SPINE FIN™	SPINE FIN™	SPINE FIN™
Refrigerant R-410A	4 LBS., 11 OZ	4 LBS., 15 OZ	4 LBS., 11 OZ	5 LBS., 2 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	3/4
LINE SIZE – IN. O.D. LIQ. <sup>(c)</sup>	3/8	3/8	3/8	3/8
Charge Spec. Subcooling	10°F	10°F	10°F	10°F
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	34 x 30.1 x 33
Weight – Shipping (lbs.)	153	153	183	189
Weight – Net (lbs.)	133	133	156	161
<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	BAYECMT023
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
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>	4A7A3042N1000A	4A7A3048N1000A	4A7A3060N1000A
POWER CONNS. – V/PH/HZ <sup>(b)</sup>	208/230/1/60	208/230/1/60	208/230/1/60
MIN. BRCH. CIR. AMPACITY	22	24	27
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	20.8 – 127.1
Outdoor Fan FL AMPS	1.05	1.05	1.05
Fan HP	1/5	1/5	1/5
Fan Dia (inches)	23	27.5	27.5
Coil	SPINE FIN™	SPINE FIN™	SPINE FIN™
Refrigerant R-410A	5 LBS., 5 OZ	5 LBS., 3 OZ	7 LBS., 10 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	7/8
LINE SIZE – IN. O.D. LIQ. <sup>(c)</sup>	3/8	3/8	3/8
Charge Spec. Subcooling	10°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	221	246
Weight – Net (lbs.)	184	189	211
<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	BAYCCHT301	BAYCCHT301	BAYCCHT301
Seacoast Kit	BAYSEAC001	BAYSEAC001	BAYSEAC001
Low Ambient Kit	BAYLOAM103	BAYLOAM103	BAYLOAM103
Service Valve Panel Cover	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.

## 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
4A7A3018N	71	74	71	65	68	67	63	56	50
4A7A3024N	71	74	71	65	68	67	63	56	50
4A7A3030N	71	73	73	72	69	68	60	52	45
4A7A3036N	71	73	73	72	69	68	60	52	45
4A7A3042N	71	81	72	69	69	66	60	57	54
4A7A3048N	71	81	72	69	69	66	60	57	54
4A7A3060N	71	81	72	69	69	66	60	57	54

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.

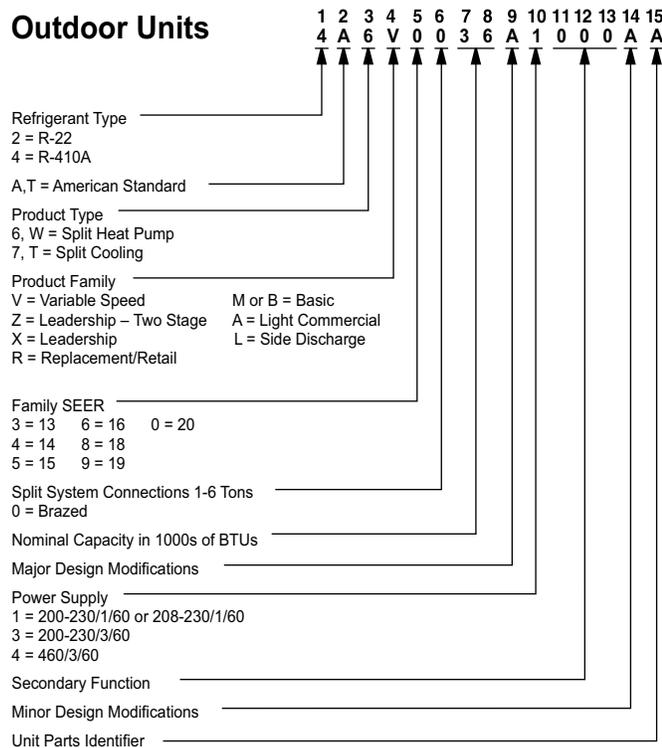
### AHRI Standard Capacity Rating Conditions

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.

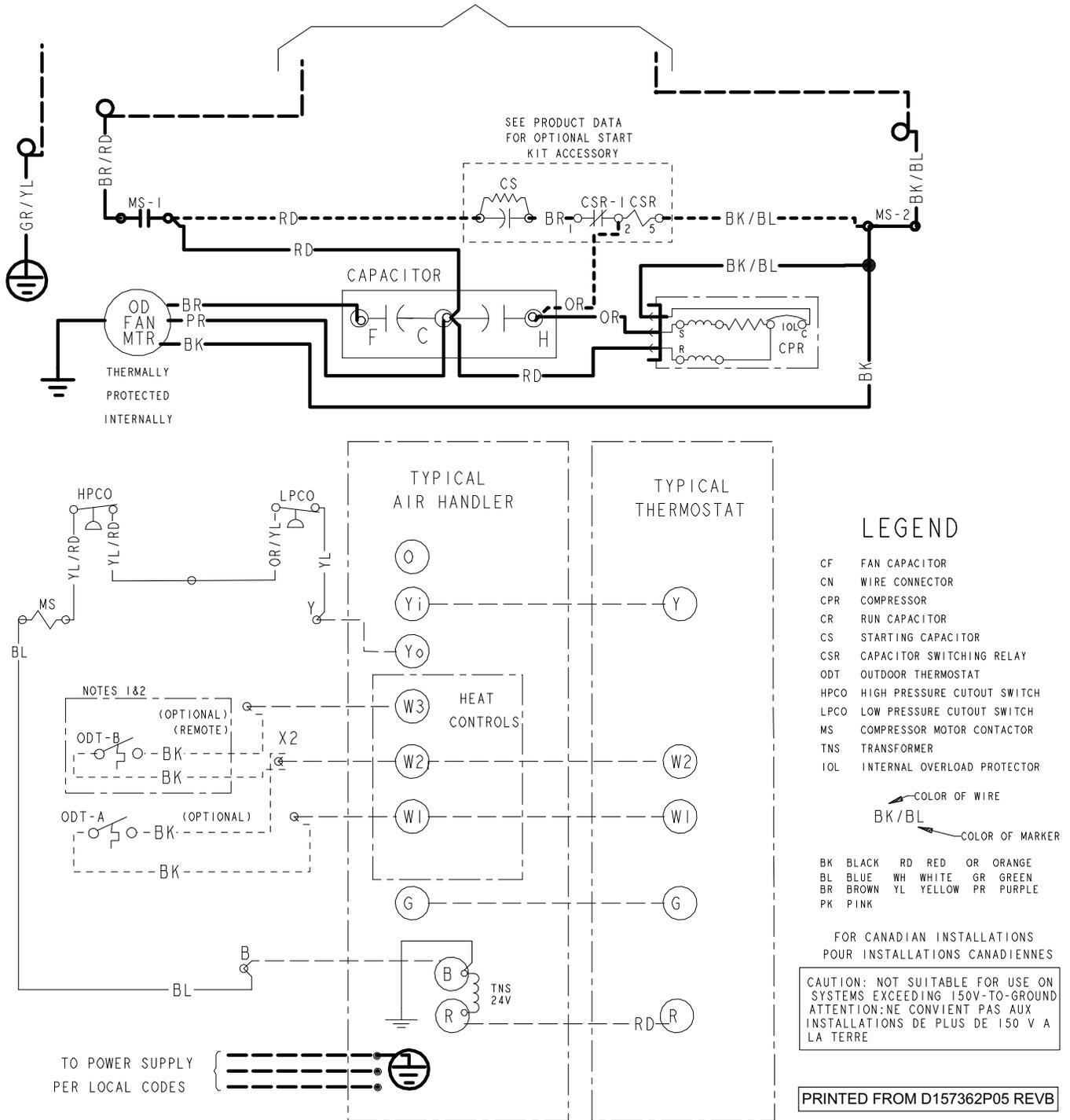
## Model Nomenclature



## Schematic Diagrams

Figure 1. 018N, 030N, 036N, 042N & 048N Models

TO POWER SUPPLY PER UNIT NAMEPLATE AND LOCAL CODES



Schematic Diagrams

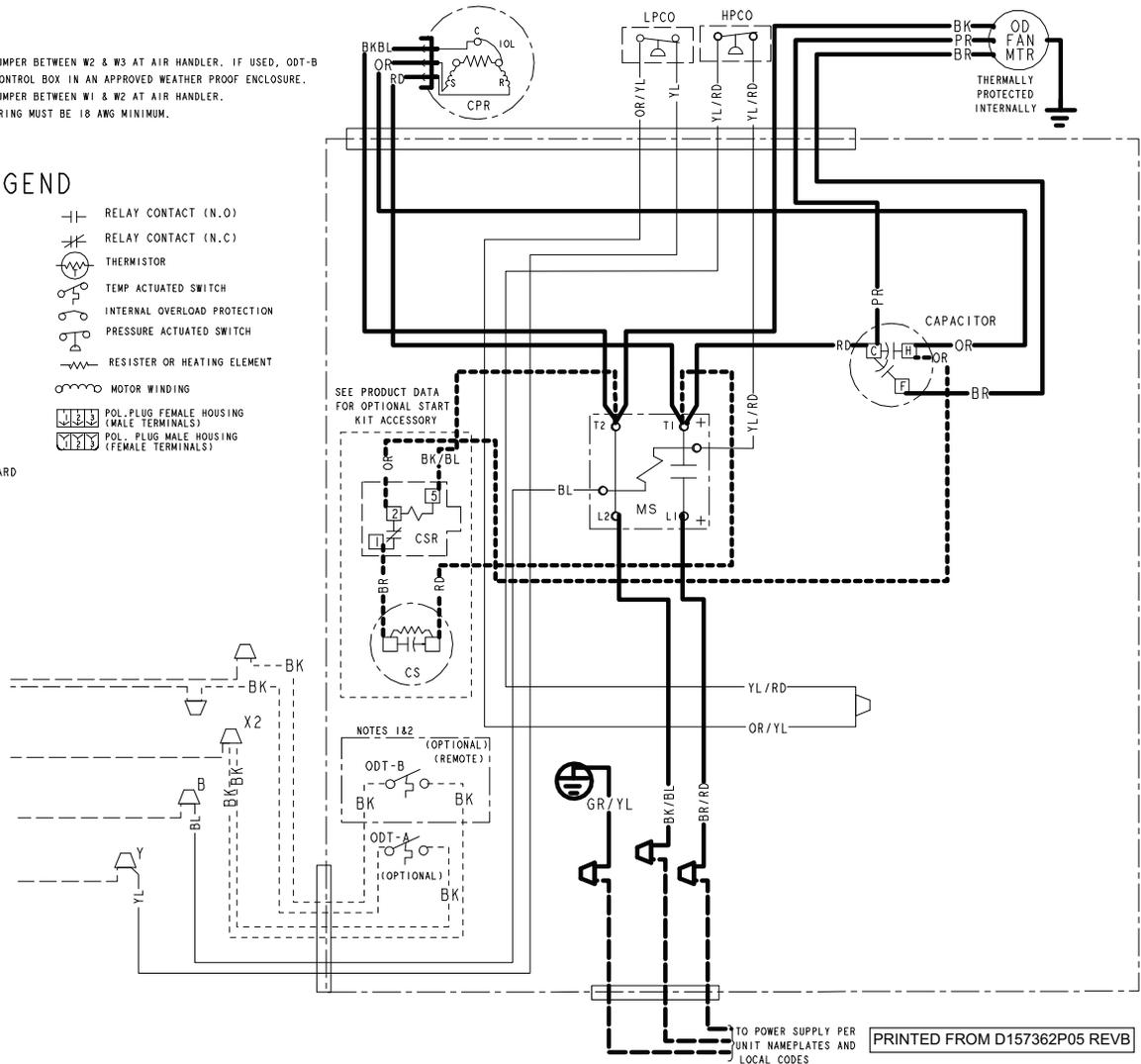
Figure 2. 018N, 030N, 036N, 042N & 048N Models

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 MINIMUM.
4. USE COPPER CONDUCTORS ONLY!

LEGEND

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





Schematic Diagrams

Figure 4. 024N Models

NOTES:

- 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.
- IF ODT-A IS NOT USED. ADD JUMPER BETWEEN W1 & W2 AT AIR HANDLER.
- LOW VOLTAGE (24 V) FIELD WIRING MUST BE 18 AWG MIN.

LEGEND

- 24 V FACTORY 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)

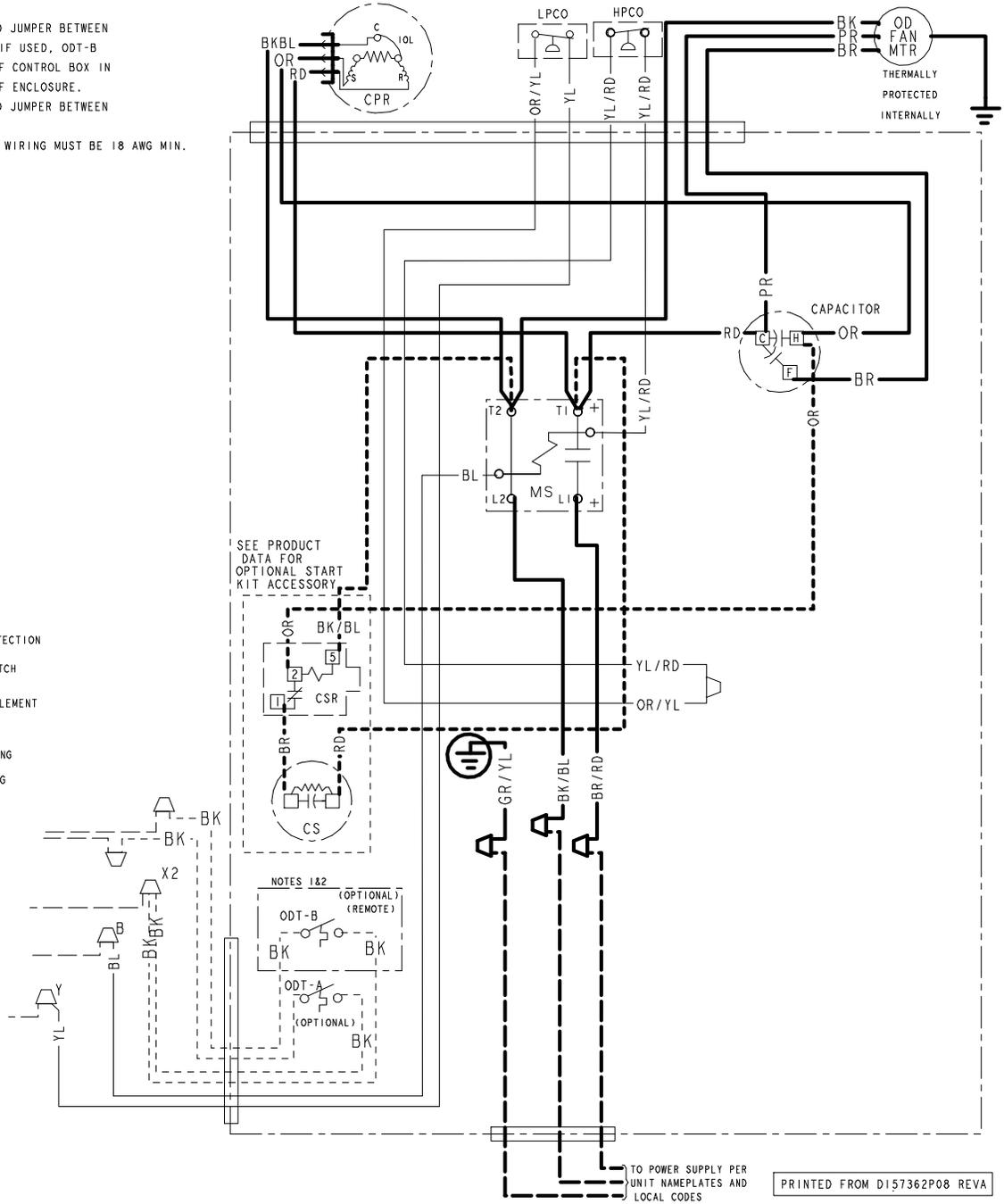
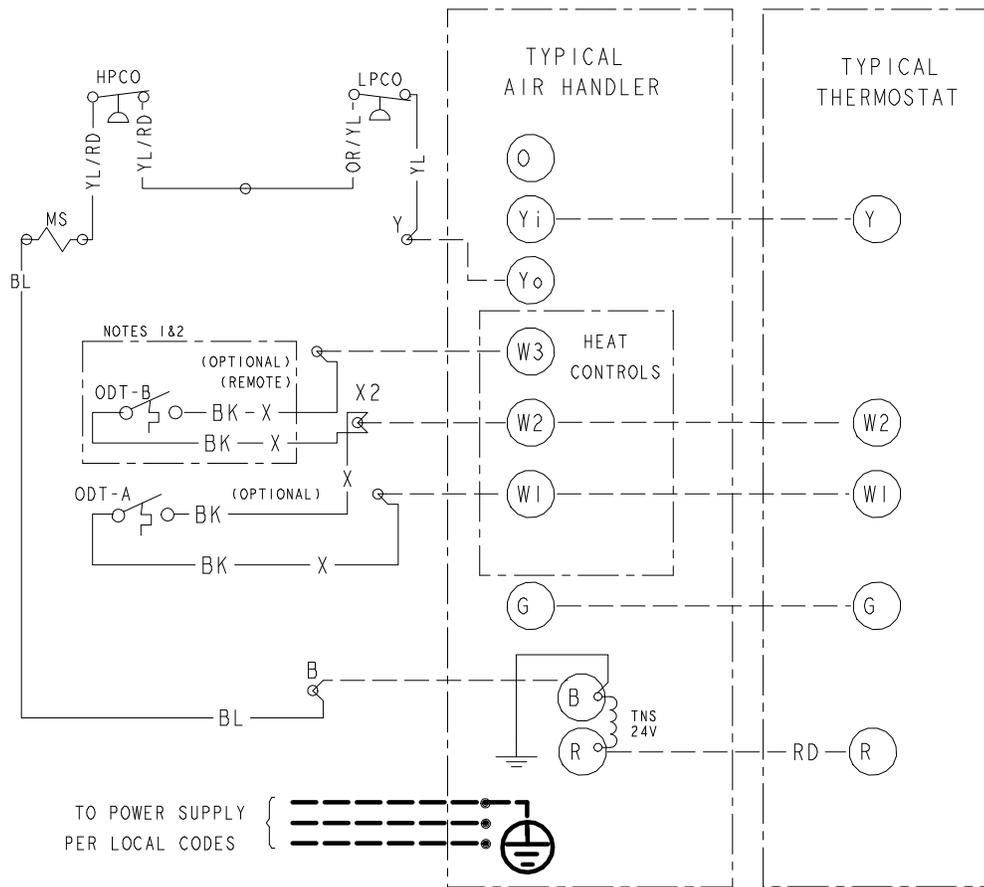
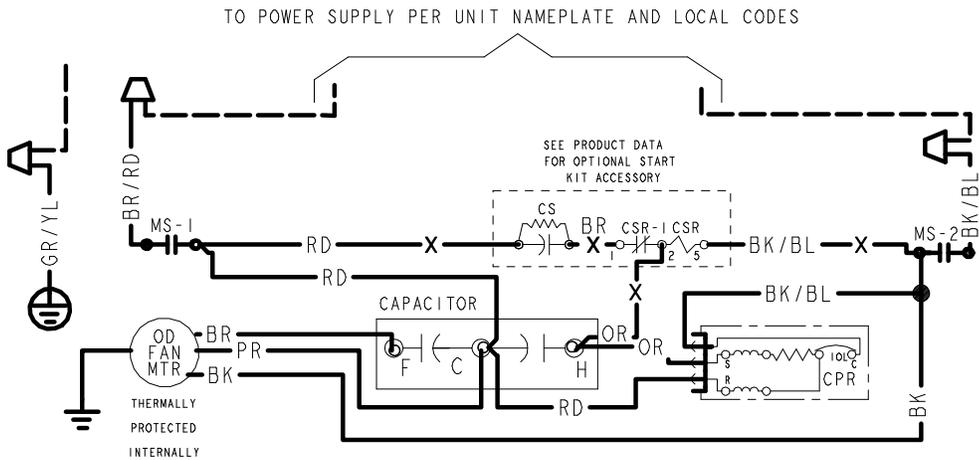


Figure 5. 060N Models



LEGEND

- CF FAN CAPACITOR
- CN WIRE CONNECTOR
- CPR COMPRESSOR
- CR RUN CAPACITOR
- CS STARTING CAPACITOR
- CSR CAPACITOR SWITCHING RELAY
- ODT OUTDOOR THERMOSTAT
- HPCO HIGH PRESSURE CUTOUT SWITCH
- LPCO LOW PRESSURE CUTOUT SWITCH
- MS COMPRESSOR MOTOR CONTACTOR
- TNS TRANSFORMER
- IOL INTERNAL OVERLOAD PROTECTOR

← COLOR OF WIRE  
BK/BL ← COLOR OF MARKER

- BK BLACK RD RED OR ORANGE
- BL BLUE WH WHITE GR GREEN
- BR BROWN YL YELLOW PR PURPLE
- PK PINK

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

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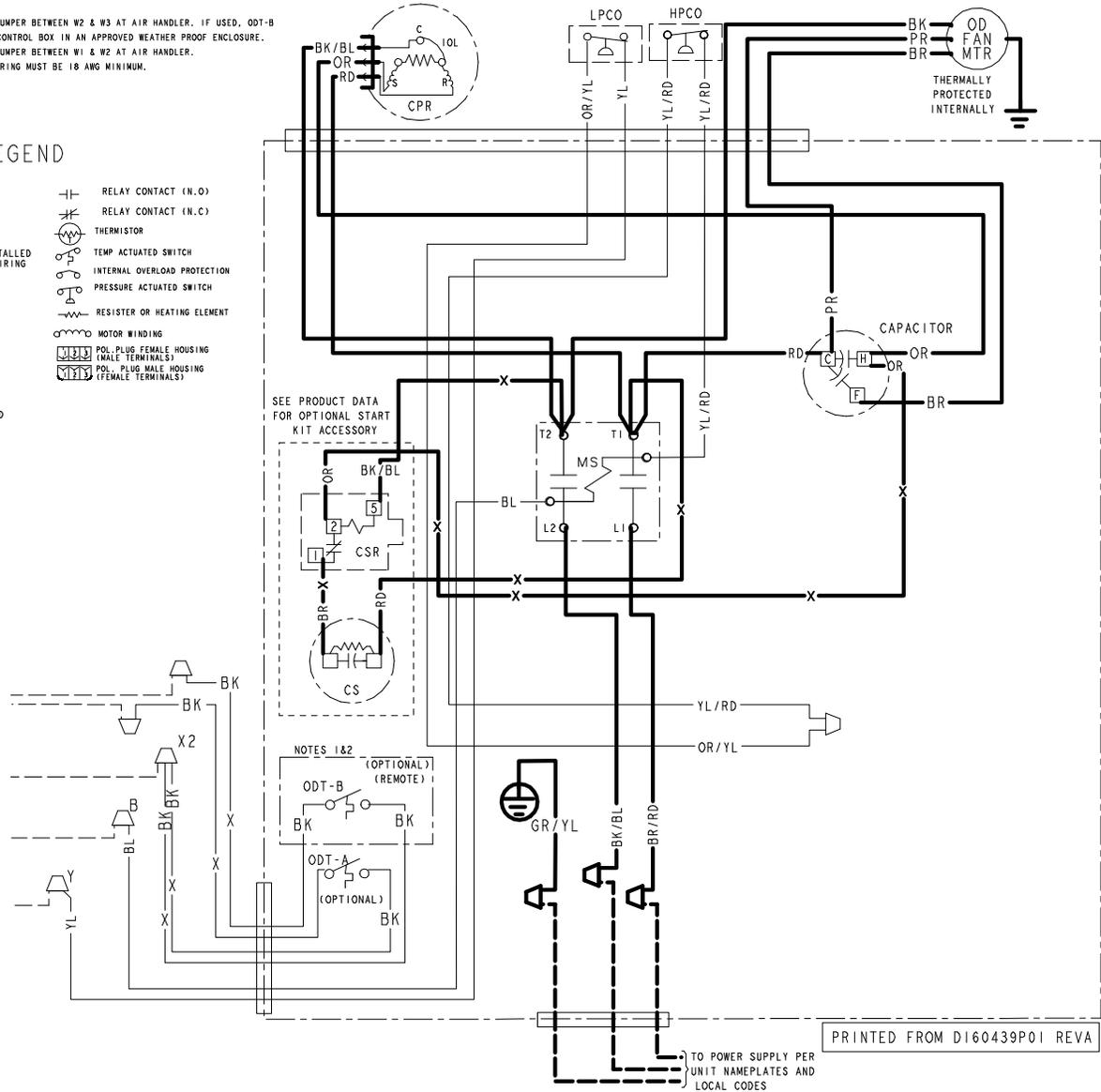
**Schematic Diagrams**

**Figure 6. 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                 | RELAY CONTACT (N.O.)                      |
| 24 V } FIELD WIRING                   | RELAY CONTACT (N.C.)                      |
| 24 V } FIELD INSTALLED FACTORY WIRING | THERMISTOR                                |
| MAGNETIC COIL                         | TEMP ACTUATED SWITCH                      |
| GROUND                                | INTERNAL OVERLOAD PROTECTION              |
| JUNCTION                              | PRESSURE ACTUATED SWITCH                  |
| CAPACITOR                             | RESISTOR OR HEATING ELEMENT               |
| WIRE NUT OR CONNECTOR                 | MOTOR WINDING                             |
| TERMINAL                              | POL. PLUG FEMALE HOUSING (MALE TERMINALS) |
| TRANSFORMER                           | POL. PLUG MALE HOUSING (FEMALE TERMINALS) |
| TERMINAL BLOCK/BOARD                  |   |



## 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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