

BUILT TO A HIGHER STANDARD[®]

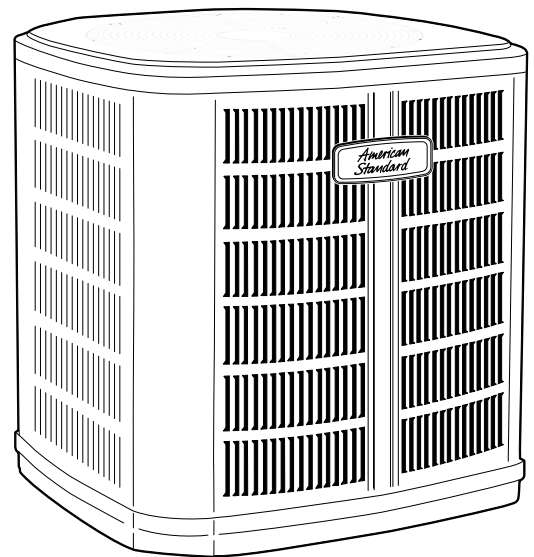
American Standard[®]

HEATING & AIR CONDITIONING

Product Data

Split System Cooling

5A7A5018A1000A
5A7A5024A1000A
5A7A5030A1000A/B
5A7A5036A1000A/B
5A7A5042A1000A
5A7A5048A1000A/B
5A7A5060A1000A/B



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

Product Specifications

Model No. ^(a)	5A7A5018A1000A	5A7A5024A1000A	5A7A5030A1000A/B	5A7A5036A1000A/B
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	9	14	15/17	18
BR. CIR. PROT. RTG. – MAX. (AMPS)	20	25	25	30
COMPRESSOR	DURATION® - SCROLL	DURATION® - SCROLL	DURATION® - SCROLL	DURATION® - SCROLL
RL AMPS – LR AMPS	6.9 – 45.1	10.3 – 60.1	12.5 – 67.1/12.7–76.1	13.5 – 75.1/13.5–83.1
Outdoor Fan FL AMPS	0.71	0.71	0.71	0.71
Fan HP	1/8	1/8	1/8	1/8
Fan Dia (inches)	23	23	23	23
Coil	SPINE FIN™	SPINE FIN™	SPINE FIN™	SPINE FIN™
Refrigerant R-410A	3 LBS., 12 OZ	3 LBS., 10 OZ	3 LBS., 8 OZ	3 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.	5/16	5/16	5/16	5/16
LINE SIZE – IN. O.D. GAS ^(c)	3/4	3/4	3/4	7/8
LINE SIZE – IN. O.D. LIQ.	5/16	5/16	5/16	5/16
Charge Spec. Subcooling	10°F	10°F	10°F	10°F
Dimensions H x W X D Crated (IN.)	42 x 30 x 33	38 x 30 x 33	42 x 30 x 33	38 x 30 x 33
Weight – Shipping (lbs.)	220	183	220	183
Weight – Net (lbs.)	184	156	184	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	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	TAYSVPANL0032AA	TAYSVPANL0032AA	TAYSVPANL0044AA	TAYSVPANL0044AA
Refrigerant Lineset ^(d)				

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

^(b) Calculated in accordance with N.E.C. Only use HACR circuit breakers or fuses.

^(c) Reference the outdoor unit ship-with literature for refrigerant piping length and lift guidelines. Reference the refrigerant piping software pub # 32-3312-xx or *Refrigerant Piping Manual for Small Split Cooling and Heat Pump Systems Application Guide* (SS-APG006*-EN) for long line sets or specialty applications (xx denotes latest revision).

^(d) 25, 30, 35 and 50 foot linesets available. For a complete listing of lineset options available from equipment or supply stores, refer to the Trane Residential and Light Commercial Product Handbook.

Product Specifications

Model No. ^(a)	5A7A5042A1000A	5A7A5048A1000A/B	5A7A5060A1000A/B
POWER CONNS. – V/PH/HZ ^(b)	208/230/1/60	208/230/1/60	208/230/1/60
MIN. BRCH. CIR. AMPACITY	21	23/26	28/30
BR. CIR. PROT. RTG. – MAX. (AMPS)	30	35/45	50
COMPRESSOR	DURATION® - SCROLL	DURATION® - SCROLL	DURATION® - SCROLL
RL AMPS – LR AMPS	14.7 – 109.1	17.3 – 126.1/19.6 – 118.1	21.8 – 143.1/23.4 – 134.1
Outdoor Fan FL AMPS	1.05	1.05	2.80
Fan HP	1/5	1/5	1/3
Fan Dia (inches)	27.5	27.5	27.5
Coil	SPINE FIN™	SPINE FIN™	SPINE FIN™
Refrigerant R-410A	5 LBS., 1 OZ	6 LBS., 10 OZ	5 LBS., 15 OZ
VALVE CONNECTION SIZE – IN. O.D. GAS	7/8	7/8	7/8
VALVE CONNECTION SIZE – IN. O.D. LIQ.	5/16	5/16	5/16
LINE SIZE – IN. O.D. GAS ^(c)	7/8	7/8	1–1/8
LINE SIZE – IN. O.D. LIQ.	5/16	5/16	5/16
Charge Spec. Subcooling	10°F	10°F	10°F
Dimensions H x W x D Crated (IN.)	42.5 x 35 x 38	50.5 x 35 x 38	50.5 x 35 x 38
Weight – Shipping (lbs.)	246	307	302
Weight – Net (lbs.)	212	257	252
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	BAYCCHT302	BAYCCHT302	BAYCCHT302
Seacoast Kit	BAYSEAC001	BAYSEAC001	BAYSEAC001
Low Ambient Kit	BAYLOAM103	BAYLOAM103	—
Service Valve Panel Cover	TAYSVPANL0044AA	TAYSVPANL0046AA	TAYSVPANL0046AA
Refrigerant Lineset ^(d)			

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

^(b) Calculated in accordance with N.E.C. Only use HACR circuit breakers or fuses.

^(c) Reference the outdoor unit ship-with literature for refrigerant piping length and lift guidelines. Reference the refrigerant piping software pub # 32-3312-xx or *Refrigerant Piping Manual for Small Split Cooling and Heat Pump Systems Application Guide* (SS-APG006*-EN) for long line sets or specialty applications (xx denotes latest revision).

^(d) 25, 30, 35 and 50 foot linesets available. For a complete listing of lineset options available from equipment or supply stores, refer to the Trane Residential and Light Commercial Product Handbook.

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
5A7A5018A	73	79	69	67	70	70	64	59	53
5A7A5024A	71	78	72	69	68	66	61	58	53
5A7A5030A	73	79	69	67	70	70	64	59	53
5A7A5036A	71	78	72	69	68	66	61	58	53
5A7A5042A	71	78	72	69	68	66	61	58	53
5A7A5048A	71	81	75	71	70	68	63	58	53
5A7A5060A	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.

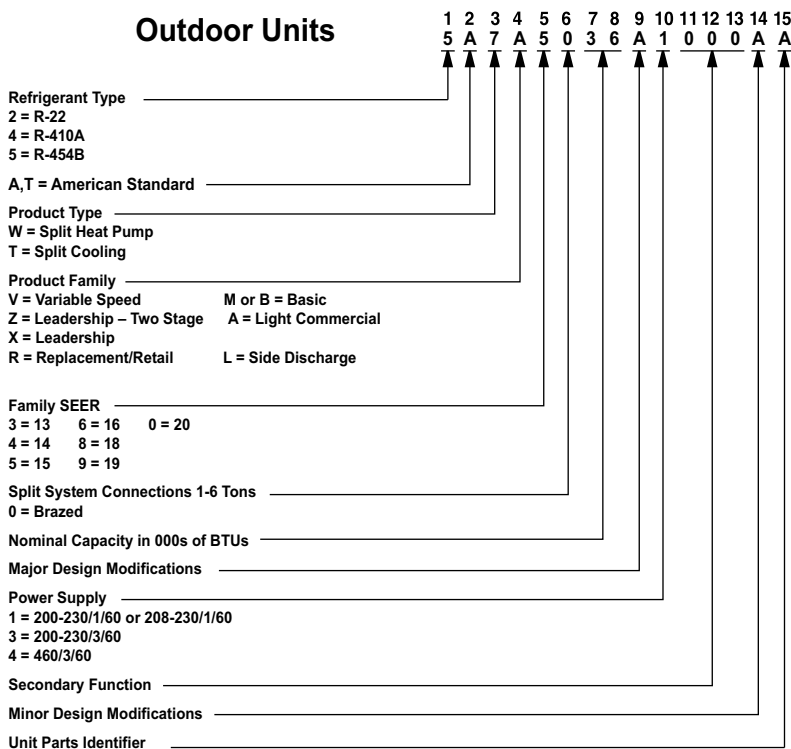
AHRI Standard Capacity Rating Conditions

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.

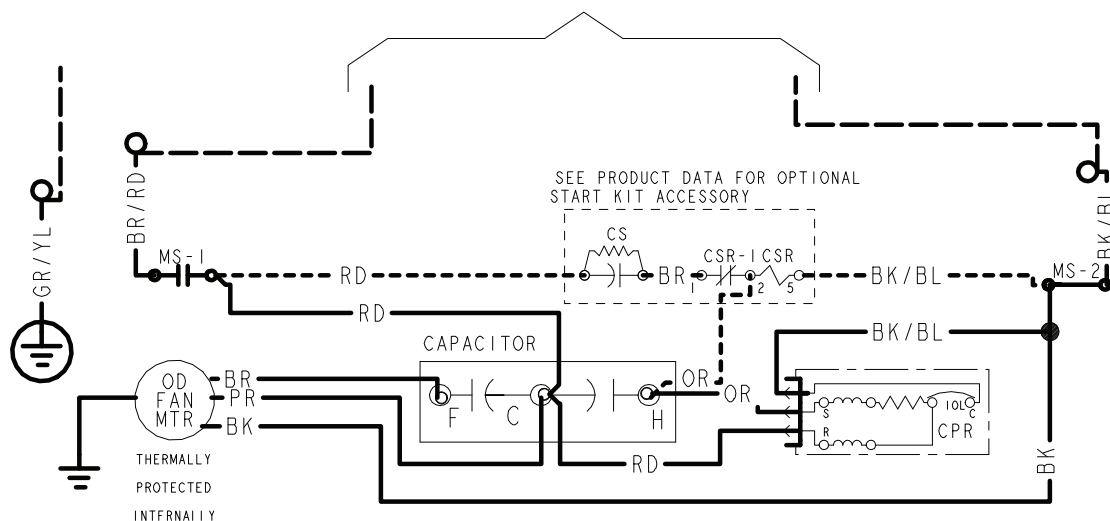
Model Nomenclature



Schematic Diagrams

Figure 1. 018A – 048A Models

TO POWER SUPPLY PER UNIT NAMEPLATE AND LOCAL CODES



LEGEND

CF	FAN CAPACITOR
CN	WIRECONNECTOR
CPR	COMPRESSOR
CR	RUN CAPACITOR
CS	STARTING CAPACITOR
CSR	CAPACITOR SWITCHING RELAY
F	INDOOR FAN RELAY
HPCO	HIGH PRESSURE CUTOUT SWITCH
LPCO	LOW PRESSURE CUTOUT SWITCH
IOL	INTERNAL OVERLOAD PROTECTOR
SM	SYSTEM ON-OFF SWITCH
MS	COMPRESSOR MOTOR CONTACTOR
ODA	OUTDOOR ANTICIPATOR
OFT	OUTDOOR FAN THERMOSTAT
ODS	OUTDOOR TEMPERATURE SENSOR
ODT	OUTDOOR THERMOSTAT
SC	SWITCH OVER VALVE SOLENOID
TDL	DISCHARGE LINE THERMOSTAT
TNS	TRANSFORMER

 COLOR OF WIRE

BK / BL

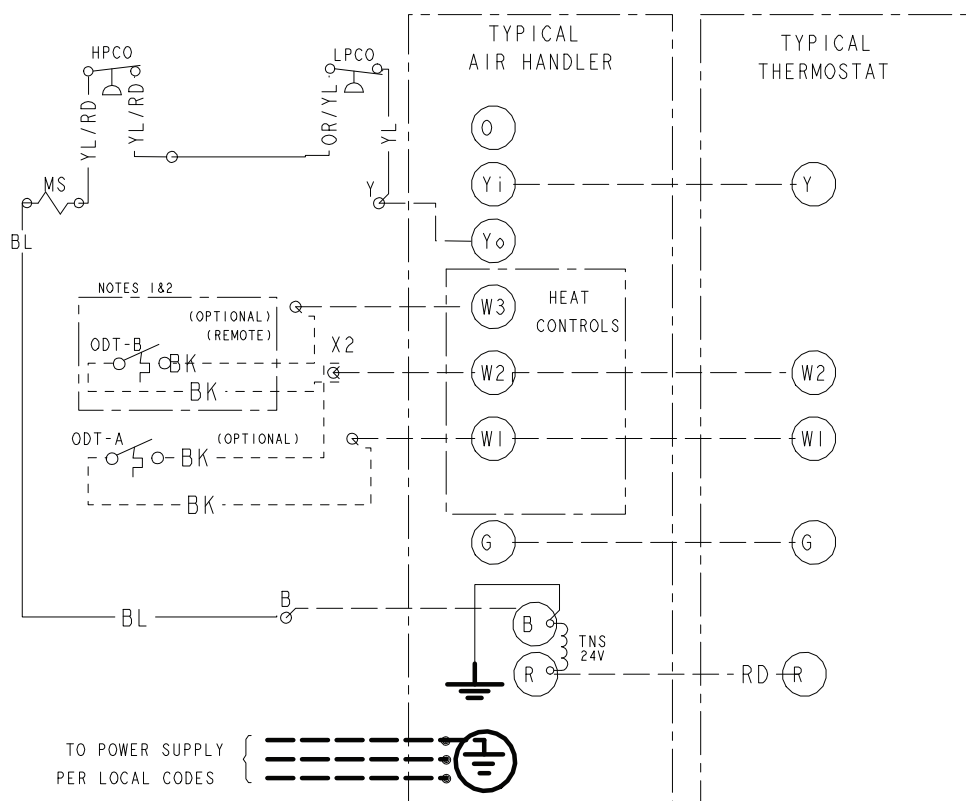
COLOR OF MARKER

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

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
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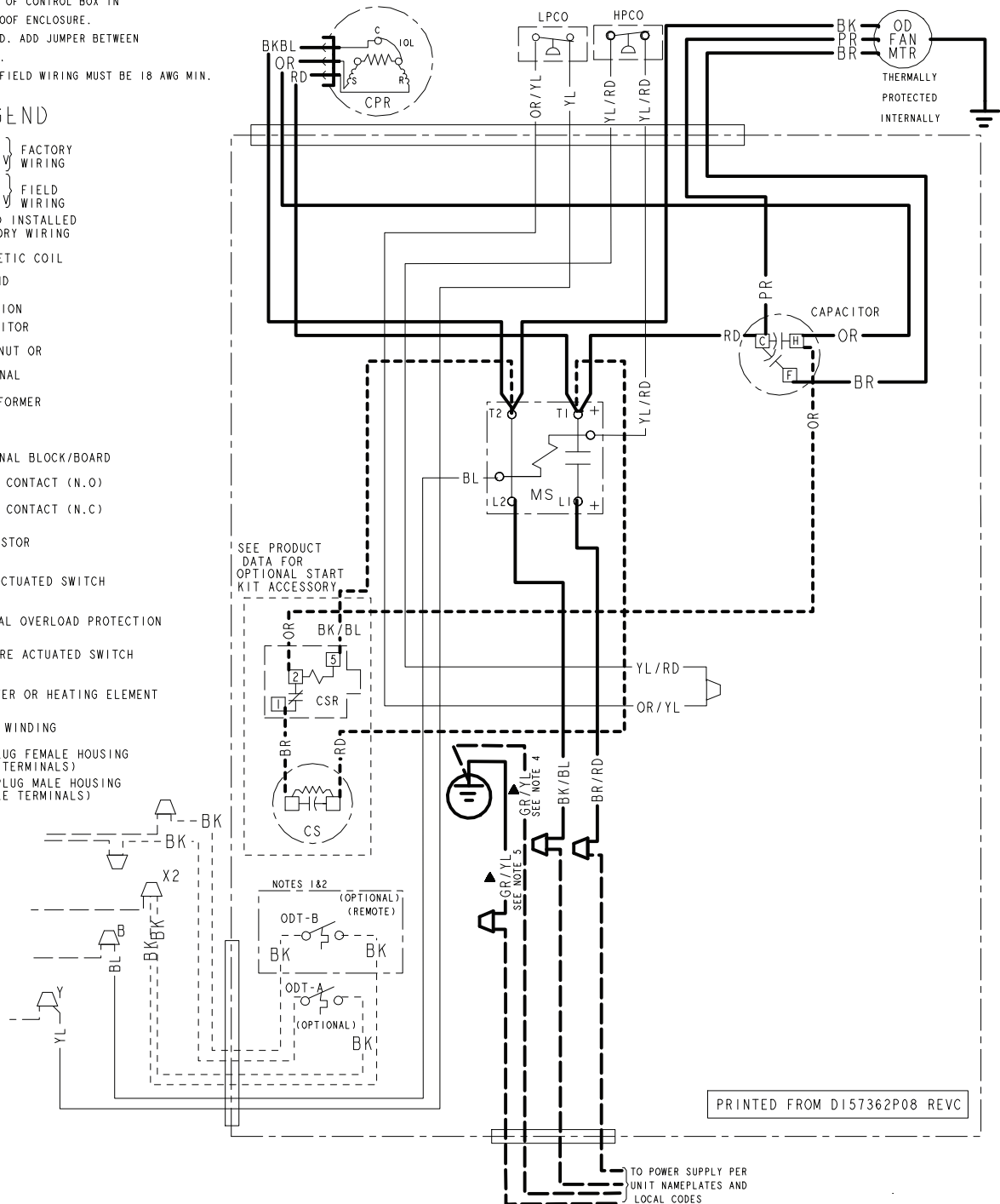
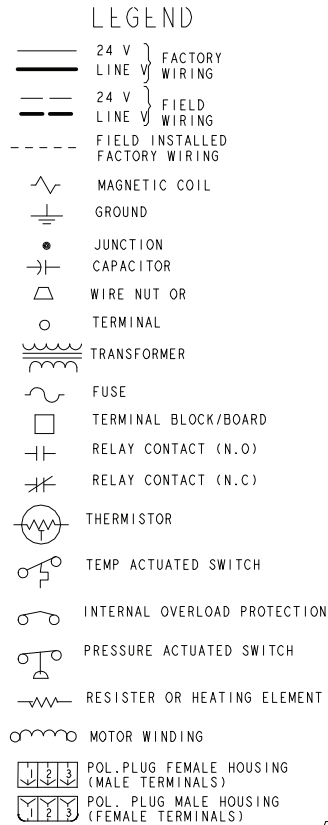


Schematic Diagrams

Figure 2. 018A–048A Models

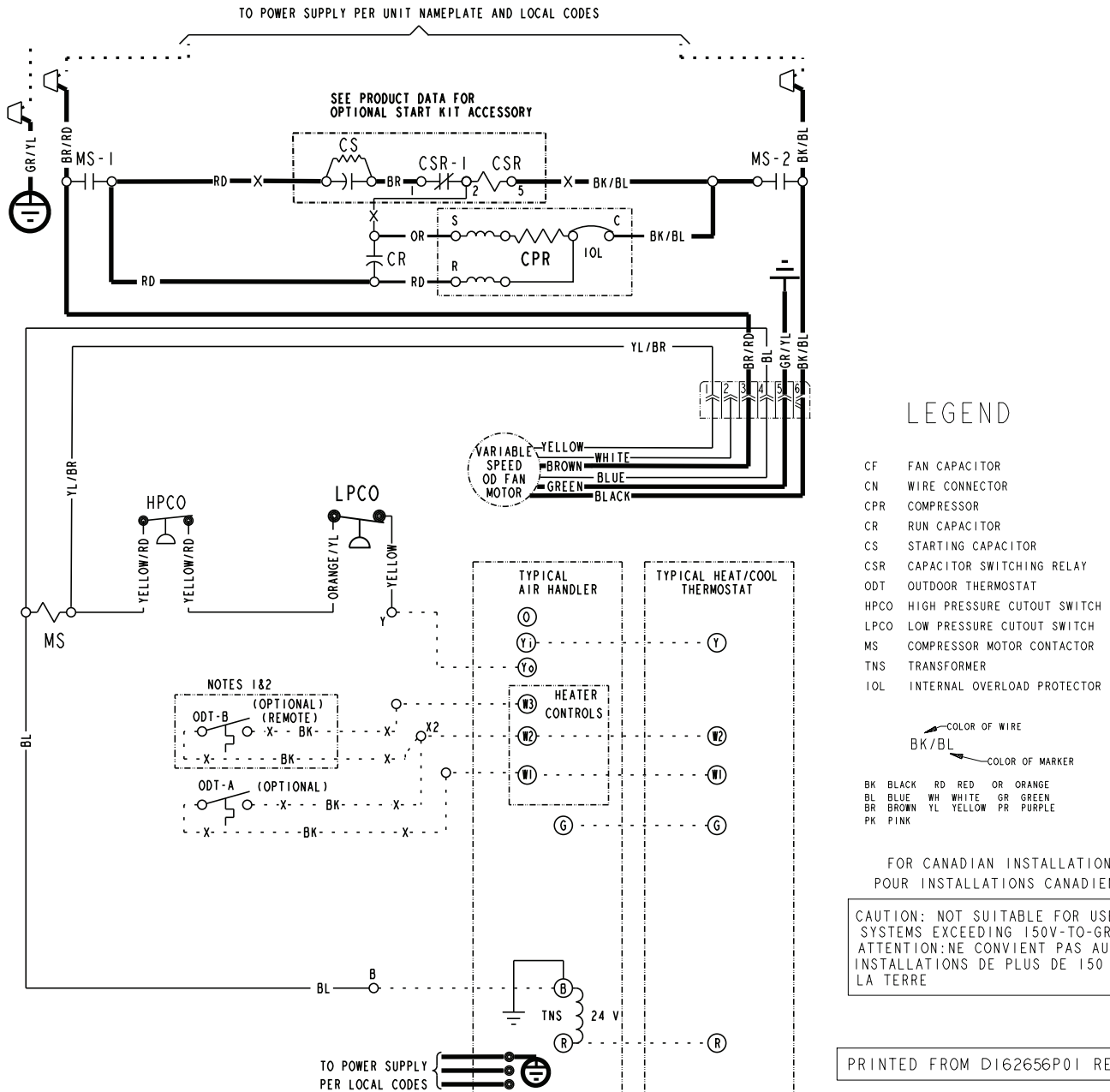
NOTES:

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.



Schematic Diagrams

Figure 3. 060A Models



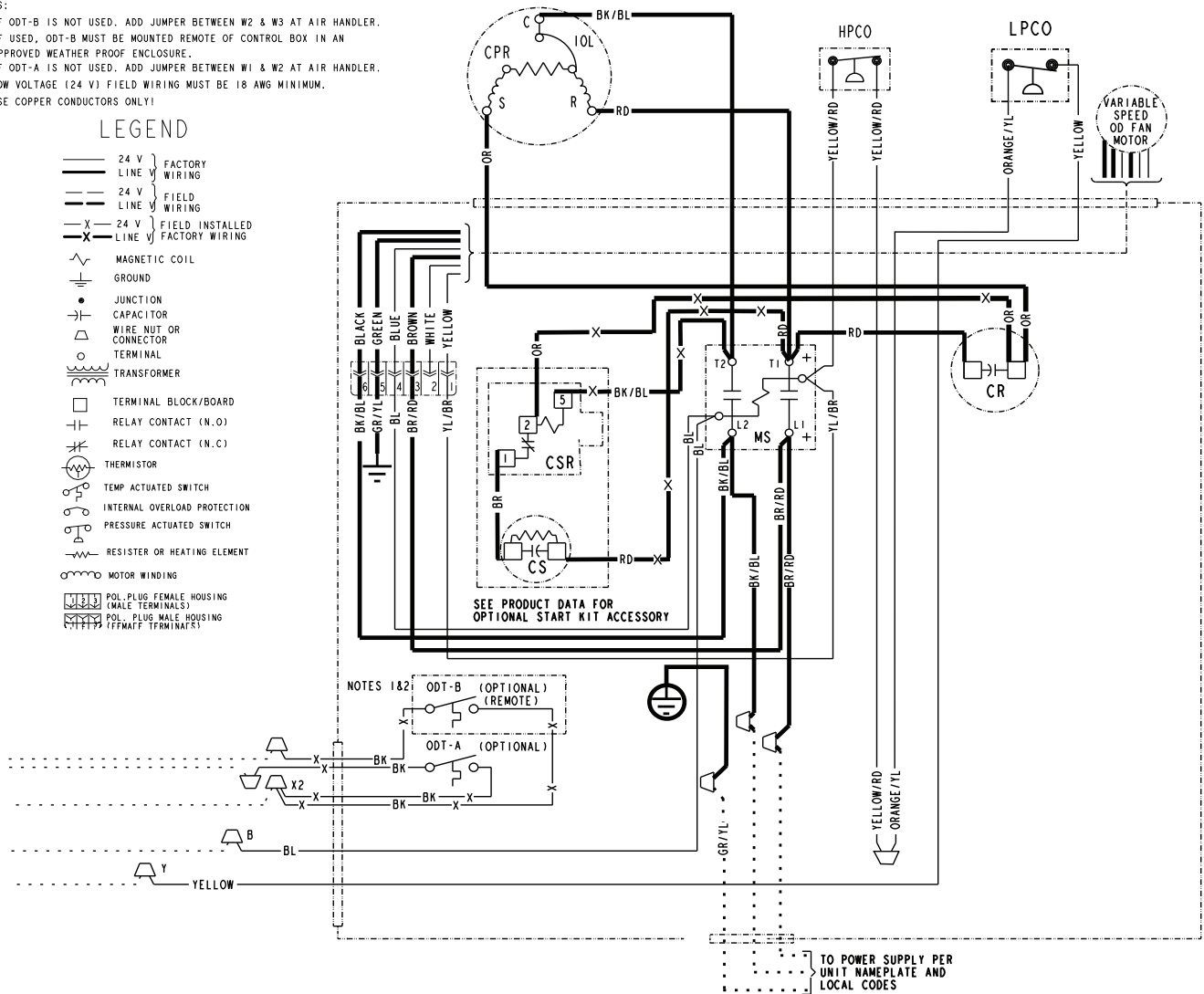
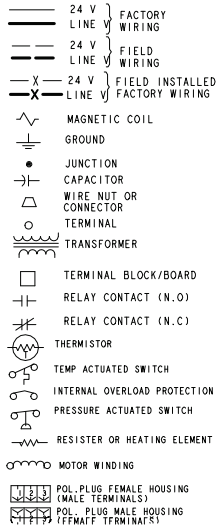
Schematic Diagrams

Figure 4. 060A Models

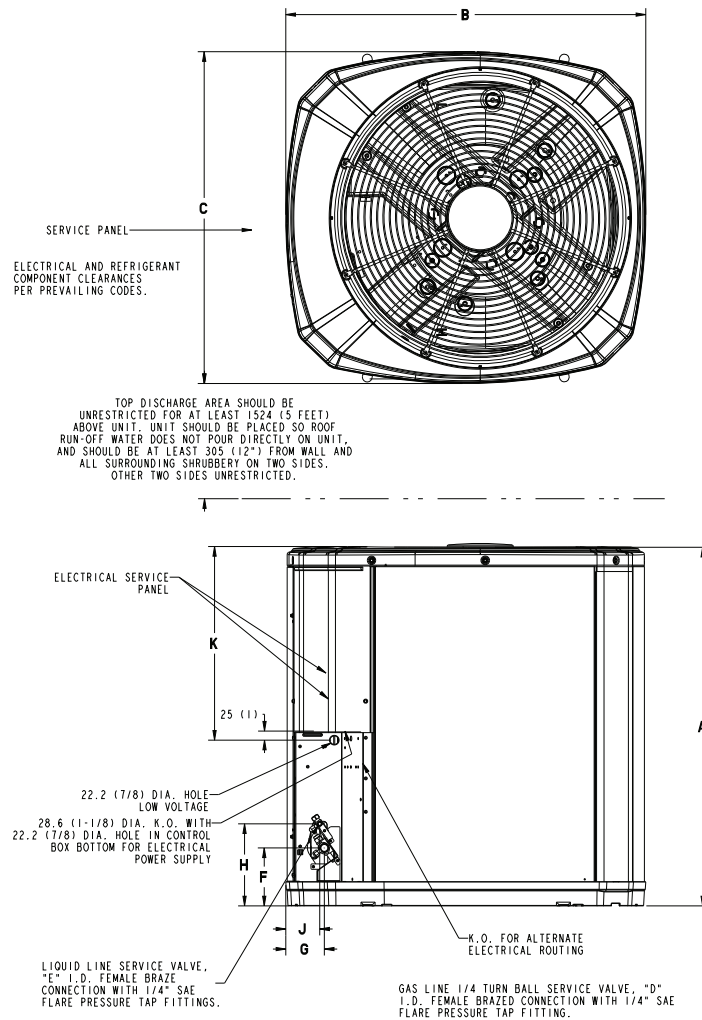
NOTES:

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



Outline Drawing



Model	Base	A	B	C	D	E	F	G	H	J	K
5A7A5018A	3	933 (36-3/4)	829 (32-5/8)	756 (29-3/4)	3/4	5/16	143 (5-5/8)	92 (3-5/8)	210 (8-1/4)	79 (3-1/8)	508 (20)
5A7A5024A	3	832 (32-3/4)	829 (32-5/8)	756 (29-3/4)	3/4	5/16	127 (5)	76 (3)	197 (7-3/4)	60 (2-3/8)	508 (20)
5A7A5030A	3	933 (36-3/4)	829 (32-5/8)	756 (29-3/4)	3/4	5/16	143 (5-5/8)	92 (3-5/8)	210 (8-1/4)	79 (3-1/8)	508 (20)
5A7A5036A	3	832 (32-3/4)	829 (32-5/8)	756 (29-3/4)	3/4	5/16	127 (5)	76 (3)	197 (7-3/4)	60 (2-3/8)	508 (20)
5A7A5042A	4	943 (37-1/8)	946 (37-1/4)	870 (34-1/4)	7/8	5/16	143 (5-5/8)	98 (3-7/8)	219 (8-5/8)	86 (3-3/8)	508 (20)
5A7A5048A	4	1147 (45-1/8)	946 (37-1/4)	870 (34-1/4)	7/8	5/16	152 (6)	98 (3-7/8)	219 (8-5/8)	86 (3-3/8)	813 (32)
5A7A5060A	4	1147 (45-1/8)	946 (37-1/4)	870 (34-1/4)	7/8	5/16	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 60335-2-40. 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.

BUILT TO A HIGHER STANDARD®

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HEATING & AIR CONDITIONING

About American Standard Heating and Air Conditioning

American Standard has been creating comfortable and affordable living environments for more than a century. For more information, please visit www.americanstandardair.com.



The AHRI Certified mark indicates company participation in the AHRI Certification program. For verification of individual certified products, go to ahridirectory.org.

The manufacturer has a policy of continuous data improvement and it reserves the right to change design and specifications without notice. We are committed to using environmentally conscious print practices.

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