

BUILT TO A HIGHER STANDARD[®]

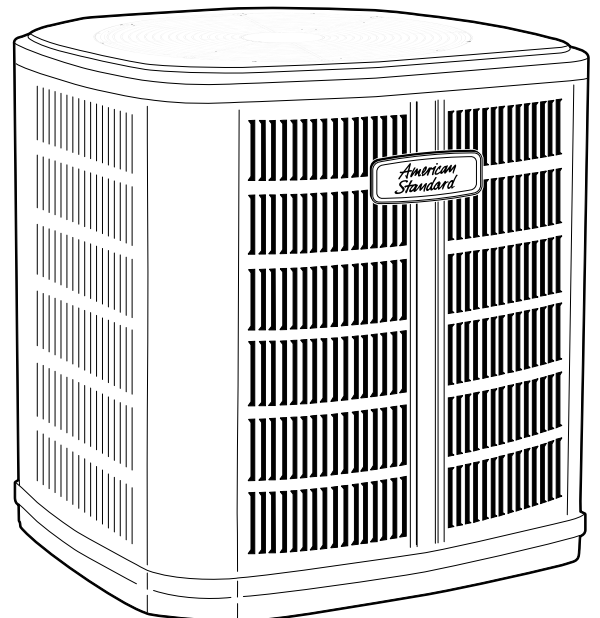
American Standard[®]

HEATING & AIR CONDITIONING

Product Data

Split System Cooling

5A7A3018A1000A
5A7A3024A1000A
5A7A3030A1000A
5A7A3036A1000A/B
5A7A3042A1000A/B
5A7A3048A1000A/B
5A7A3060A1000A/B



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

Product Specifications

Model No. ^(a)	5A7A3018A1000A	5A7A3024A1000A	5A7A3030A1000A	5A7A3036A1000A/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	16	18
BR. CIR. PROT. RTG. - MAX. (AMPS)	20	20	25	30
COMPRESSOR	DURATION®- SCROLL	DURATION®- SCROLL	DURATION®- SCROLL	DURATION®- SCROLL
RL AMPS - LR AMPS	8.33 - 44.7	8.9 - 61	10.3 - 67.8	13.5 - 75.0 / 13.5 - 82.8
Outdoor Fan FL AMPS	0.77	0.77	0.77	0.77
Fan HP	1/8	1/8	1/8	1/8
Fan Dia (inches)	18.9	19	23	23
Coil	SPINE FIN™	SPINE FIN™	SPINE FIN™	SPINE FIN™
Refrigerant R-454B	2 LBS., 15 OZ	2 LBS., 12 OZ	3 LBS., 2 OZ	2 LBS., 15 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	3/4
LINE SIZE - IN. O.D. LIQ. ^(c)	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.)	33.4 x 26.7 x 30	33.4 x 26.7 x 30	34 x 30 x 33	34 x 30 x 33
Weight - Shipping (lbs.)	153	153	189	189
Weight - Net (lbs.)	133	133	161	161
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
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) Standard line lengths - 150', Standard lift - 50' Suction and liquid line. For greater lengths and lifts refer to refrigerant piping software Pub#32-3312-0* (* 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)	5A7A3042A1000A/B	5A7A3048A1000A/B	5A7A3060A1000A/B
POWER CONNS. - V/PH/HZ ^(b)	208/230/1/60	208/230/1/60	208/230/1/60
MIN. BRCH. CIR. AMPACITY	20 / 22	23 / 26	30
BR. CIR. PROT. RTG. - MAX. (AMPS)	35	35 / 40	50
COMPRESSOR	DURATION®- SCROLL	DURATION®- SCROLL	DURATION®- SCROLL
RL AMPS - LR AMPS	14.7 - 109 / 17.0 - 109	17.3 - 126 / 19.6 - 118	23.3 - 125 / 23.4 - 134
Outdoor Fan FL AMPS	0.77	1.05	1.05
Fan HP	1/8	1/5	1/5
Fan Dia (inches)	23	27.5	27.5
Coil	SPINE FIN™	SPINE FIN™	SPINE FIN™
Refrigerant R-454B	4 LBS., 11 OZ	4 LBS., 15 OZ	5 LBS., 5 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	7/8
LINE SIZE - IN. O.D. LIQ. ^(c)	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 30 x 33	42.5 x 35 x 38	42.5 x 35 x 38
Weight - Shipping (lbs.)	220	246	246
Weight - Net (lbs.)	184	211	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
Service Valve Panel Cover	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) Standard line lengths - 150', Standard lift - 50' Suction and liquid line. For greater lengths and lifts refer to refrigerant piping software Pub#32-3312-0* (* 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

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
5A7A3018A	71	74	71	65	68	67	63	56	50
5A7A3024A	71	74	71	65	68	67	63	56	50
5A7A3030A	73	79	69	67	70	70	64	59	53
5A7A3036A	73	79	69	67	70	70	64	59	53
5A7A3042A	73	79	69	67	70	70	64	59	53
5A7A3048A	71	81	72	69	69	66	60	57	54
5A7A3060A	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.

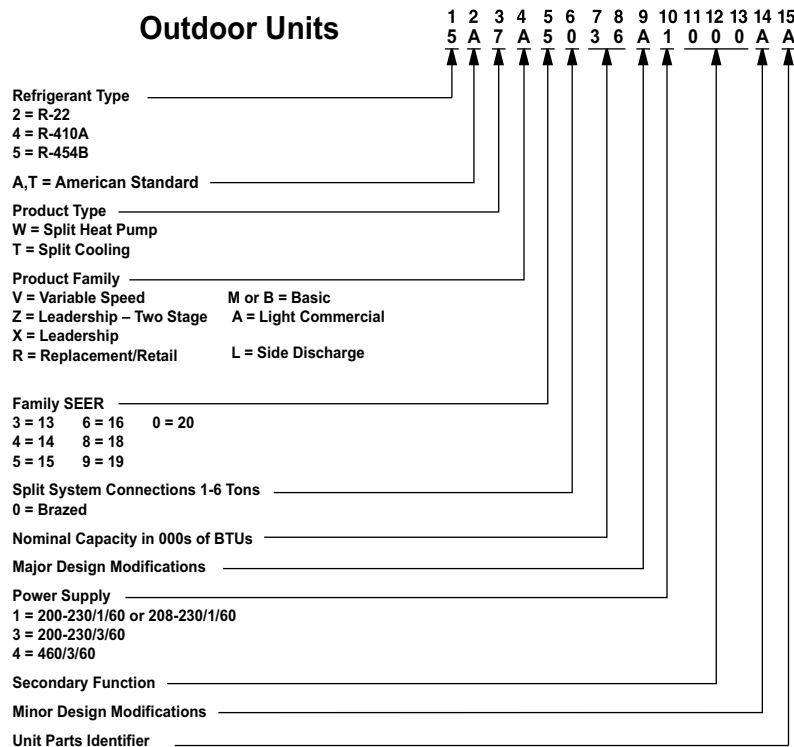
AHRI Standard Capacity Rating Conditions

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.

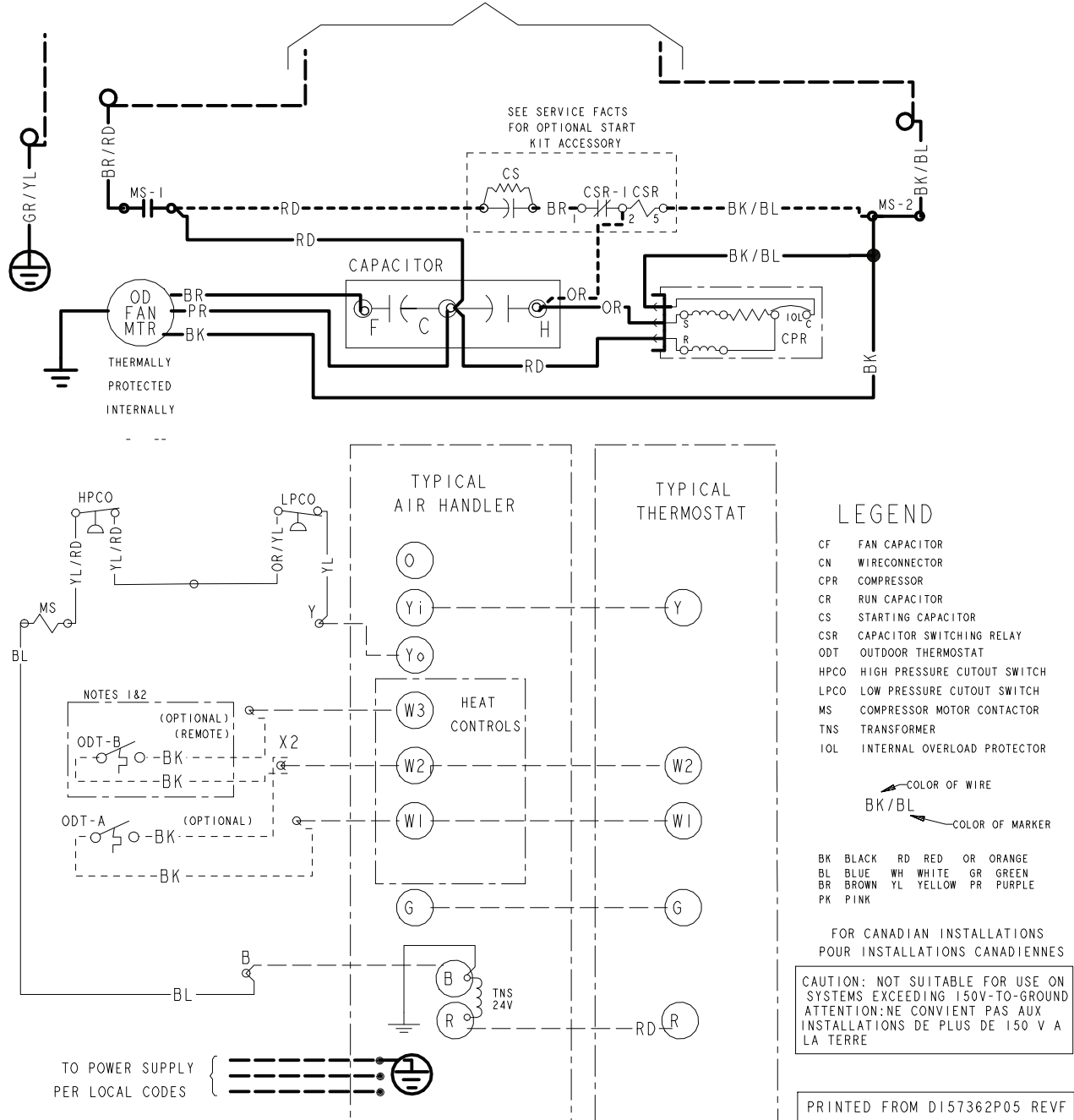
Model Nomenclature



Schematic Diagrams

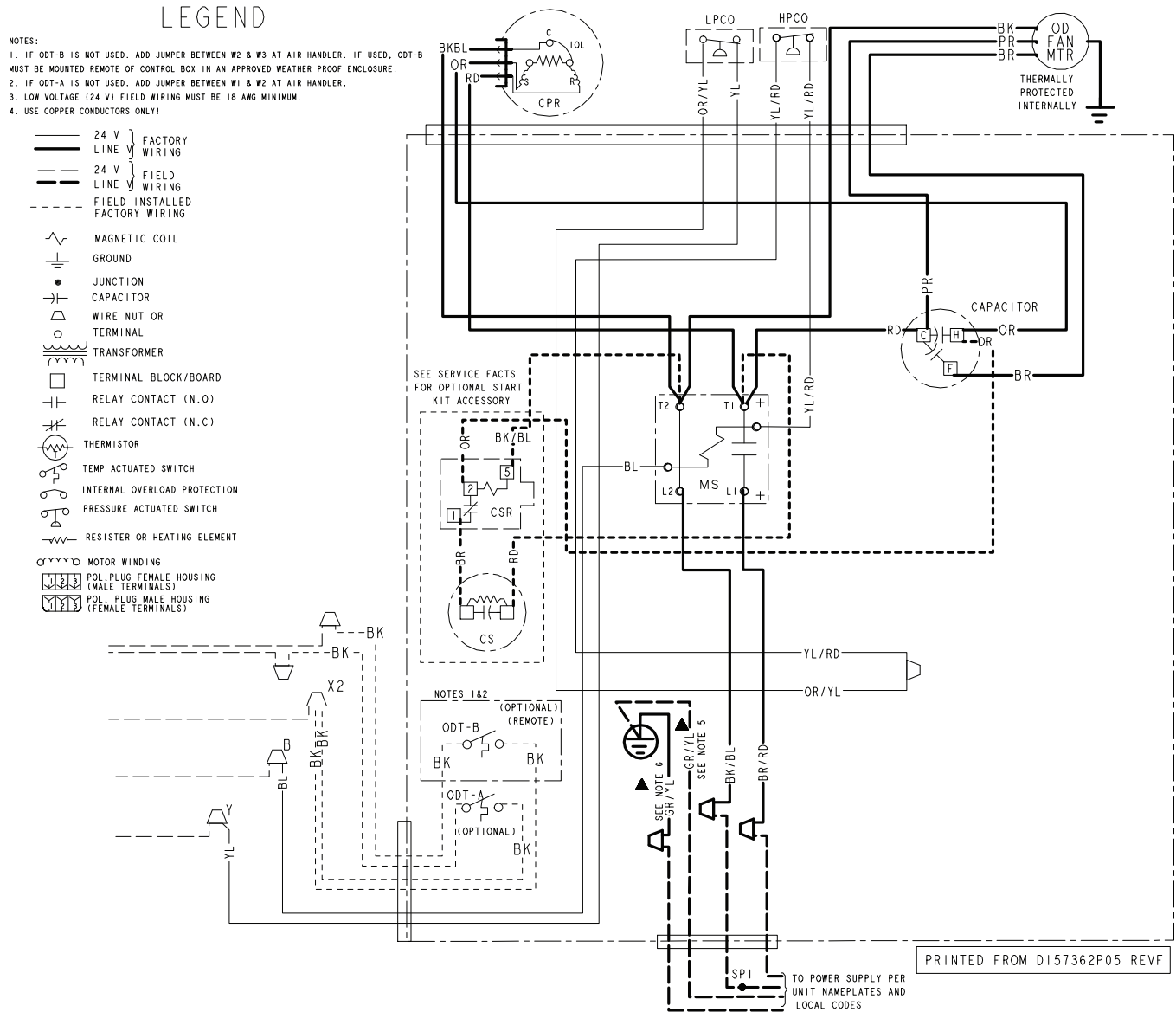
Figure 1. 018A, 030A, 036A, 042A & 048A Models

TO POWER SUPPLY PER UNIT NAMEPLATE AND LOCAL CODES



Schematic Diagrams

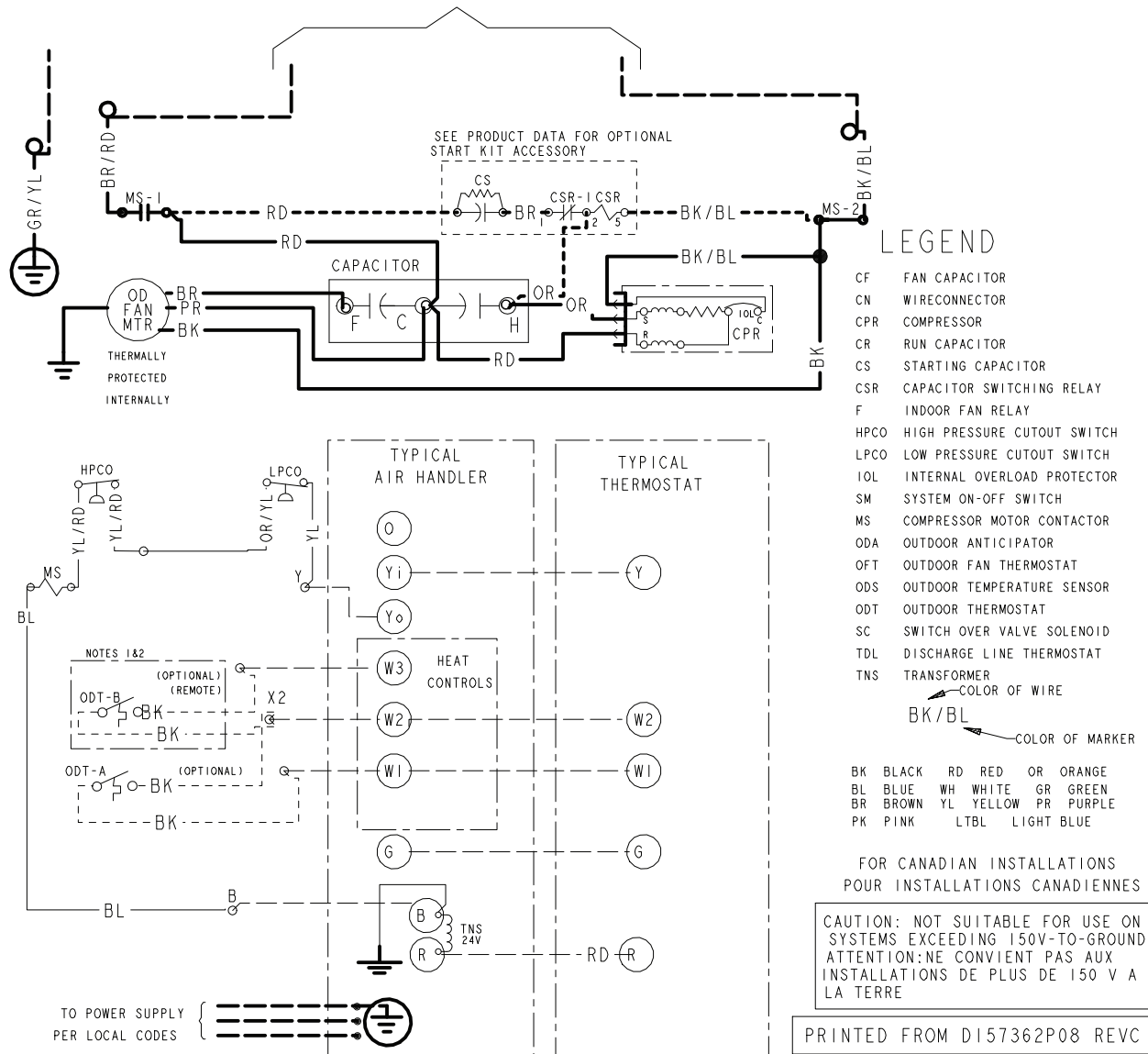
Figure 2. 018A, 030A, 036A, 042A & 048A Models



Schematic Diagrams

Figure 3. 024A Models

TO POWER SUPPLY PER UNIT NAMEPLATE AND LOCAL CODES



Schematic Diagrams

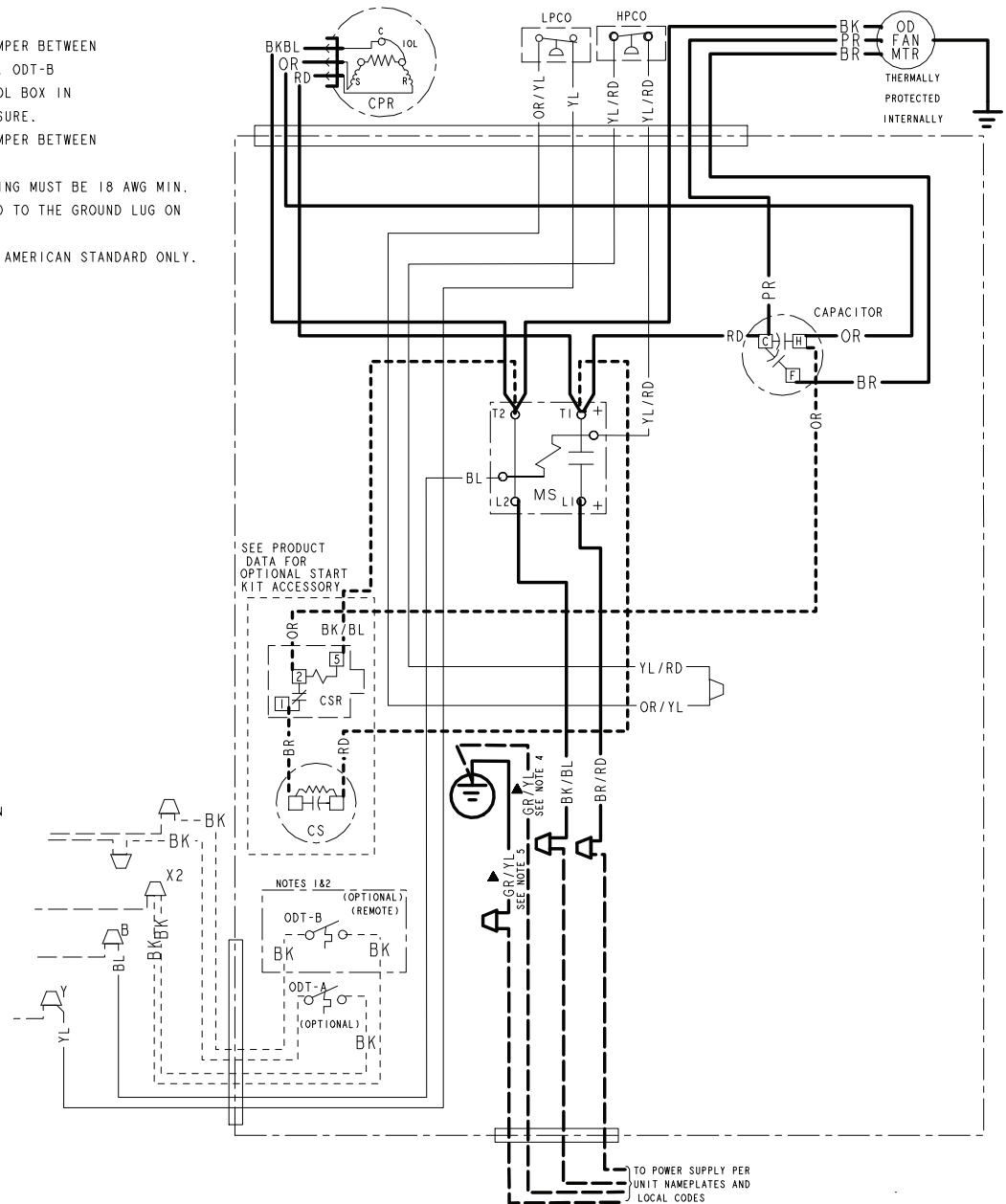
Figure 4. 024A Models

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.
- ▲ 4. FIELD GROUND MUST BE ATTACHED TO THE GROUND LUG ON THE RUNTRU AND AMERISTAR UNITS.
- ▲ 5. GROUND CONNECTION FOR TRANE/ AMERICAN STANDARD ONLY.

LEGEND

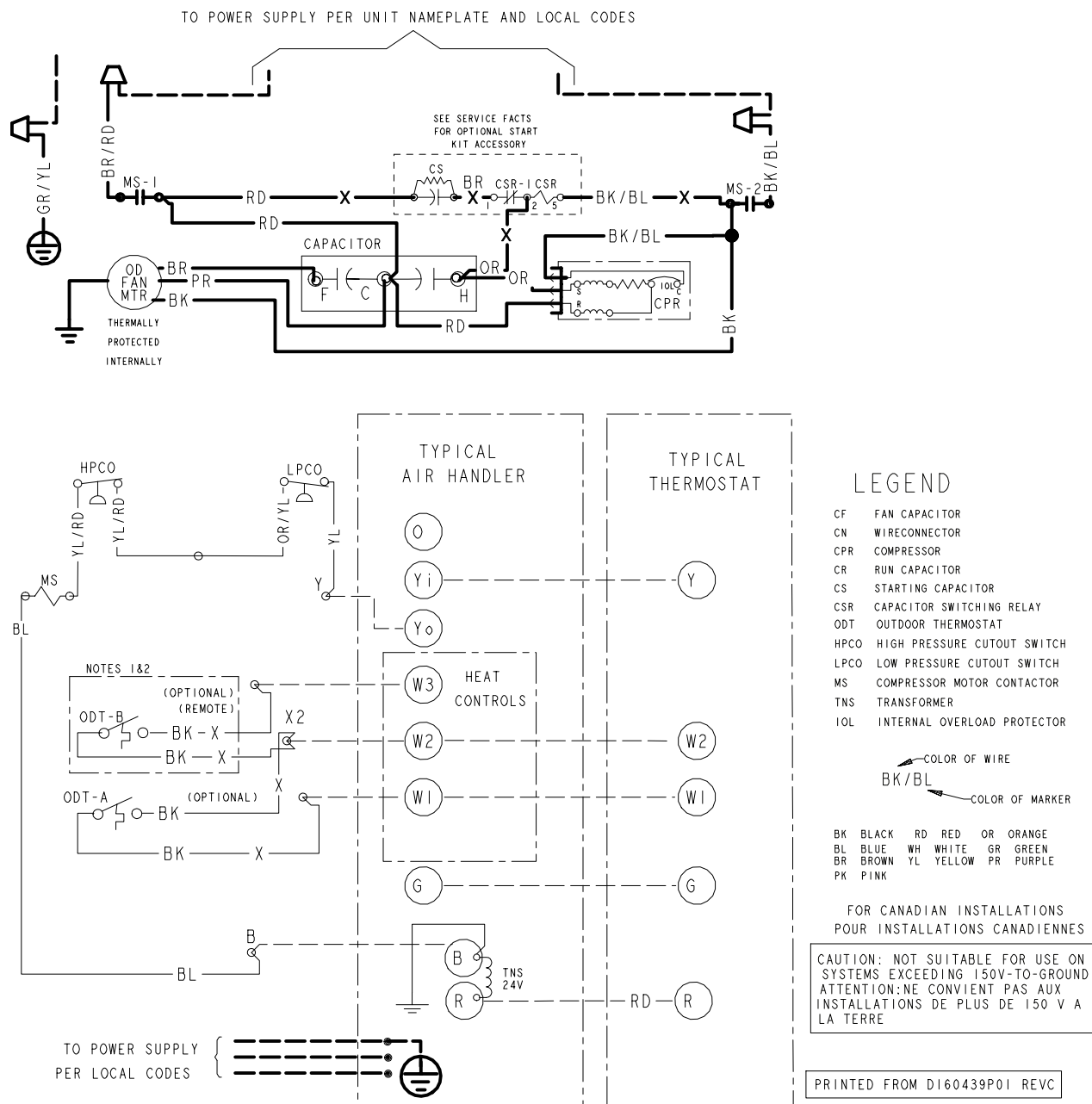
	24 V	} FACTORY LINE WIRING
	24 V	
	24 V	} FIELD LINE WIRING
	24 V	
	FIELD INSTALLED	FACTORY WIRING
	MAGNETIC COIL	
	GROUND	
	JUNCTION	
	CAPACITOR	
	WIRE NUT OR	
	TERMINAL	
	TRANSFORMER	
	FUSE	
	TERMINAL BLOCK/BOARD	
	RELAY CONTACT (N.O.)	
	RELAY CONTACT (N.C.)	
	THERMISTOR	
	TEMP ACTUATED SWITCH	
	INTERNAL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



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Schematic Diagrams

Figure 5. 060A Models



Schematic Diagrams

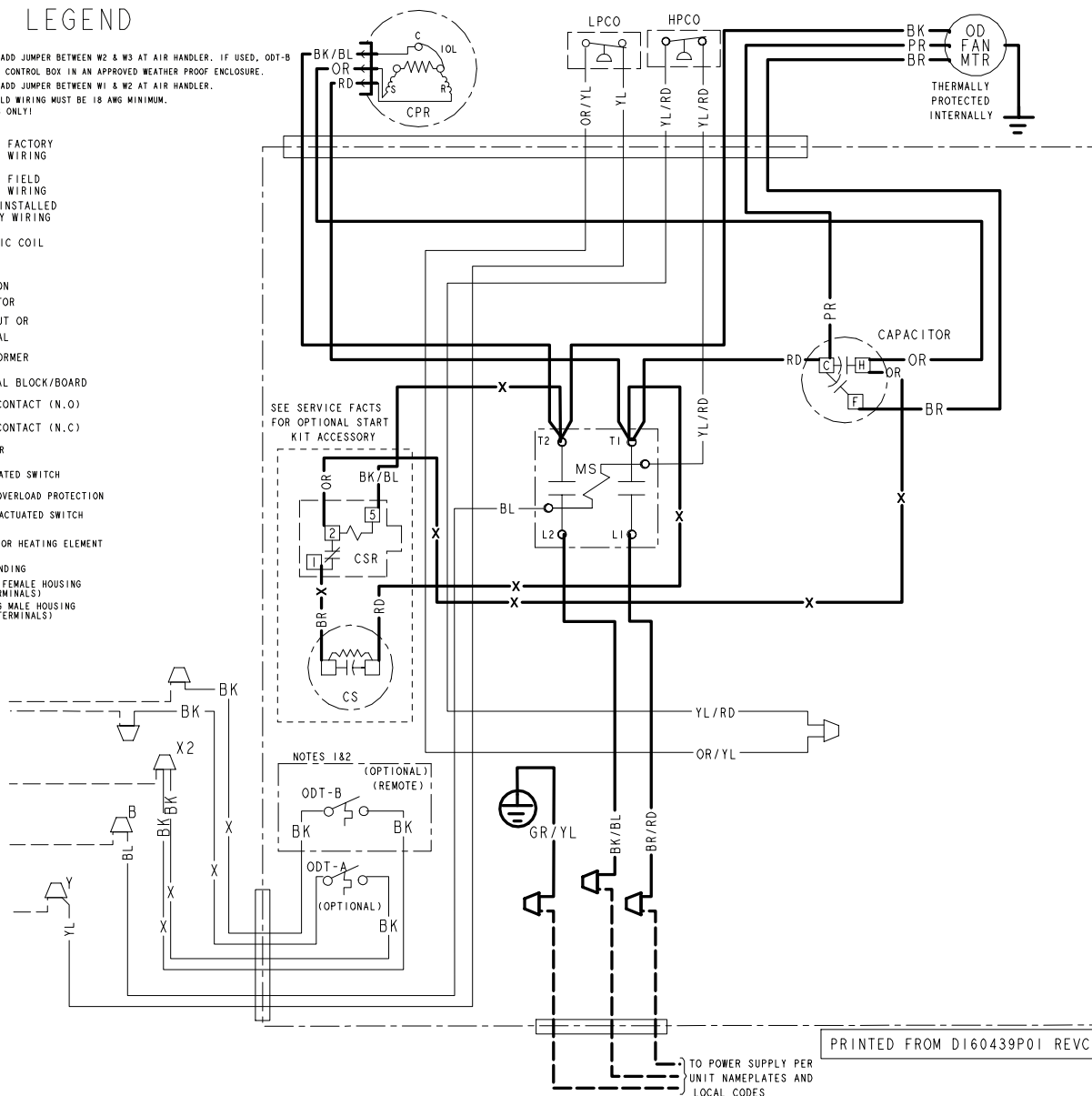
Figure 6. 060A Models

LEGEND

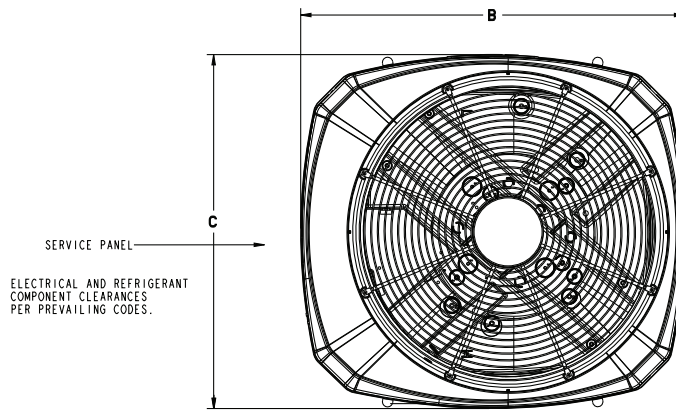
NOTES:

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!

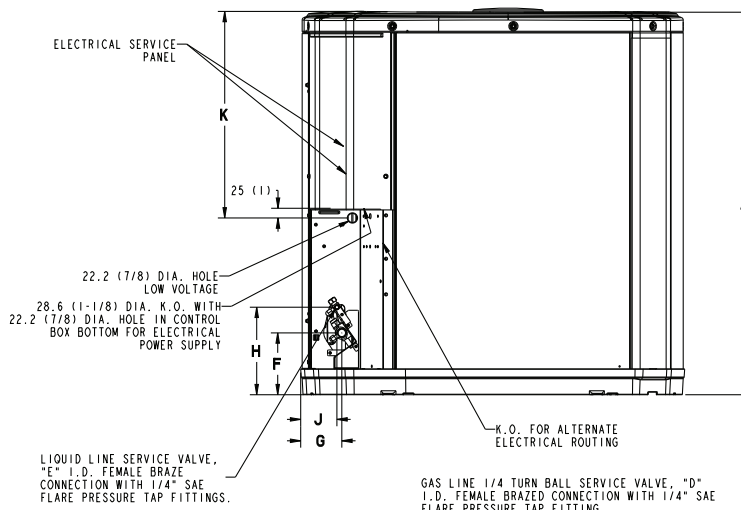
- 24 V FACTORY WIRING
- 24 V FIELD WIRING
- - - FIELD INSTALLED FACTORY WIRING
- ⌋ MAGNETIC COIL
- ⏏ GROUND
- JUNCTION
- ⌋ CAPACITOR
- ⌋ WIRE NUT OR TERMINAL
- ⌋ TRANSFORMER
- ⌋ TERMINAL BLOCK/BOARD
- ⌋ RELAY CONTACT (N.O.)
- ⌋ RELAY CONTACT (N.C.)
- ⌋ THERMISTOR
- ⌋ TEMP ACTUATED SWITCH
- ⌋ INTERNAL 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
5A7A3018A	2	730 (28-3/4)	724 (28-1/2)	651 (25-5/8)	3/4	5/16	127 (5)	57 (2-1/4)	194 (7-5/8)	38 (1-1/2)	457 (18)
5A7A3024A	2	730 (28-3/4)	724 (28-1/2)	651 (25-5/8)	3/4	5/16	127 (5)	57 (2-1/4)	194 (7-5/8)	38 (1-1/2)	457 (18)
5A7A3030A	3	730 (28-3/4)	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)
5A7A3036A	3	730 (28-3/4)	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)
5A7A3042A	3	943 (37-1/8)	829 (32-5/8)	756 (29-3/4)	7/8	5/16	143 (5-5/8)	92 (3-5/8)	210 (8-1/4)	79 (3-1/8)	508 (20)
5A7A3048A	4	943 (37-1/8)	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)	508 (20)
5A7A3060A	4	943 (37-1/8)	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)	508 (20)

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.



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.



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