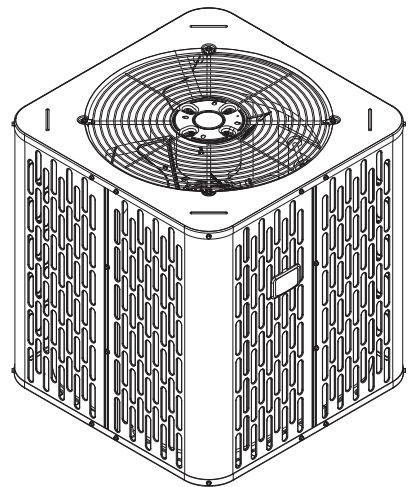


Product and Submittal Data

Split System Air Conditioner

A5AC3018A1000A
A5AC3024A1000A
A5AC3030A1000A
A5AC3036A1000A/B
A5AC3042A1000A/B/C
A5AC3048A1000A/B
A5AC3060A1000A/B



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

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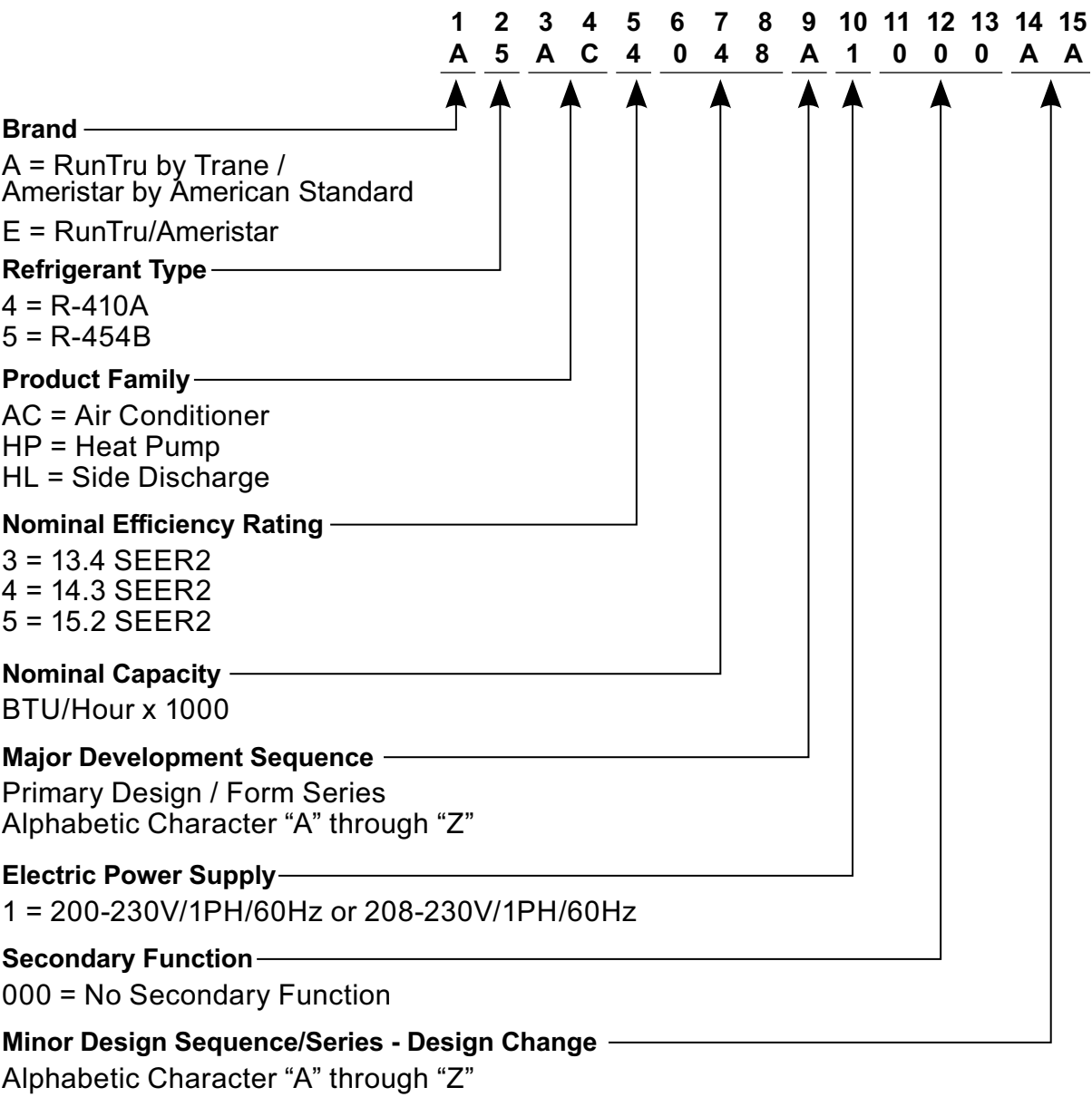
Revision History

Updated Product Specifications tables.

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Model Number Description



General Data

AHRI standard 210/240 rating conditions:

- Cooling: 80°F DB; air entering indoor coil: 67°F WB; air entering outdoor coil: 95°F DB
- High temperature heating: 47°F DB; air entering outdoor coil: 43°F WB; entering indoor coil: 70°F DB
- Low temperature heating: 17°F DB; air entering outdoor coil: 15°F WB; air entering indoor coil: 70°F DB
- Rated indoor airflow for heating is the same as for cooling.

AHRI standard 270 rating conditions:

The noise rating numbers are determined with the unit in cooling operation. Standard Noise Rating number is at 95°F outdoor air.

Product Specifications

Table 1. Models — A5AC3018A1000A, A5AC3024A1000A, A5AC3030A1000A, and A5AC3036A1000A/B

Outdoor Unit ^(a) ^(b)	A5AC3018A1000	A5AC3024A1000	A5AC3030A1000	A5AC3036A1000	
14th Digit of the Model Number	A	A	A	A	B
Power Conns. – V/Ph/Hz ^(c)	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	Scroll	Scroll	Scroll	Scroll	
No. Used - No. Stages	1 - 1	1 - 1	1 - 1	1 - 1	
Volts/Ph/Hz	208/230/1/60	208/230/1/60	208/230/1/60	208/230/1/60	
R.L. Amps ^(d) - L.R. Amps	8.33 - 44.7	8.9 - 61.0	10.3 - 67.8	13.5 - 75	13.5 - 83
Factory Installed					
Start Components ^(e)	No (Uses BAYKSKT263)	No (Uses BAYKSKT263)	No	No	
Insulation/Sound Blanket	No	No	No	No	
Compressor Heat	No	No	No	No	
Outdoor Fan	Propeller	Propeller	Propeller	Propeller	
Dia. (in.) - No. Used	19 - 1	19 - 1	23.02 - 1	23.02 - 1	
Type Drive - No. Speeds	Direct - 1	Direct - 1	Direct - 1	Direct - 1	
CFM @ 0.0 (in.) W.G. ^(f)	2182	2450	2675	2675	
No. Motors - HP	1 - 1/8	1 - 1/8	1 - 1/8	1 - 1/8	
Motor Speed – rpm	825	850	825	825	
Volts/Ph/Hz	208/230/1/60	208/230/1/60	208/230/1/60	208/230/1/60	
F.L. Amps	0.77	0.85	0.77	0.77	
Outdoor Coil - Type	All Aluminum	All Aluminum	All Aluminum	All Aluminum	
Rows - F.P.I.	1 - 24	1 - 24	1 - 24	1 - 24	
Face Area (sq. ft.)	13.75	13.75	16.25	16.25	
Tube Size (in.)	3/8	3/8	3/8	3/8	
Refrigerant					
lb – R-454B (O.D. Unit) ^(g)	2 lb, 15 oz	2 lb, 12 oz	3 lb, 2 oz	2 lb, 15 oz	
Factory Supplied	Yes	Yes	Yes	Yes	
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 ^(h) ⁽ⁱ⁾	3/4	3/4	3/4	3/4	
Line Size - (in.) O.D. Liq.	5/16	5/16	5/16	5/16	
Charging Specifications					
Subcooling	10°F	10°F	10°F	10°F	
Dimensions	H × W × D				
Crated (in.)	34.3 × 27 × 27	34.3 × 27 × 27	34.3 × 31.1 × 31.1	34.3 × 31.1 × 31.1	
Weight					
Shipping (lb)	158	158	189	189	

Table 1. Models — A5AC3018A1000A, A5AC3024A1000A, A5AC3030A1000A, and A5AC3036A1000A/B (continued)

Outdoor Unit ^{(a) (b)}	A5AC3018A1000	A5AC3024A1000	A5AC3030A1000	A5AC3036A1000
Net (lb)	134	134	161	161
Optional Accessories:				
Rubber Isolator Kit	BAYISLT101	BAYISLT101	BAYISLT101	BAYISLT101
Snow Leg — Base and Cap 4 in. High	BAYLEGS002	BAYLEGS002	BAYLEGS002	BAYLEGS002
Snow Leg — 4 in. Extension	BAYLEGS003	BAYLEGS003	BAYLEGS003	BAYLEGS003
Extreme Condition Mounting Kit	BAYECMT023	BAYECMT023	BAYECMT023	BAYECMT023
Refrigerant Lineset ⁽ⁱ⁾				

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

^(b) Rated in accordance with AHRI standard 270.

^(c) Calculated in accordance with Natl. Elec. Codes. Use only HACR circuit breakers or fuses.

^(d) This value shown for compressor RLA on the unit nameplate and on this specification sheet is used to compute minimum branch circuit ampacity and max. fuse size. The value shown is the branch circuit selection current.

^(e) Use start components only when compressor is found to enter locked rotor condition and will not start or when lights dim at compressor start." No means no start components. Yes means quick start kit components. PTC means positive temperature coefficient starter. Optional kit shown.

^(f) Standard Air - Dry Coil - Outdoor.

^(g) This value approximate. For more precise value see unit nameplate.

^(h) 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).

⁽ⁱ⁾ 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. Always verify proper system charge via subcooling (TXV/EEV) or superheat (fixed orifice) per the unit nameplate.

^(j) 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.

Table 2. Models — A5AC3042A1000A/B/C, A5AC3048A1000A/B, and A5AC3060A1000A/B

Outdoor Unit ^{(a) (b)}	A5AC3042A1000			A5AC3048A1000		A5AC3060A1000	
14th Digit of the Model Number	A	B	C	A	B	A	B
Power Conns. – V/Ph/Hz ^(c)	208/230/1/60			208/230/1/60		208/230/1/60	
Min. BRCH. CIR. Ampacity	22	22	23	23	25	28	30
BR. CIR. PROT. RTG. – Max. (Amps)	35	35	40	35	45	50	
Compressor	Scroll			Scroll		Scroll	
No. Used - No. Stages	1 - 1			1 - 1		1 - 1	
Volts/Ph/Hz	208/230/1/60			208/230/1/60		208/230/1/60	
R.L. Amps ^(d) - L.R. Amps	14.7 - 109	17.0 - 109	17.9 - 95.9	17.3 - 126	19.6 - 118	23.5 - 125	23.4 - 134
Factory Installed							
Start Components ^(e)	No			No (Uses BAYKSKT263)		No (Uses BAYKSKT263)	
Insulation/Sound Blanket	No			No		No	
Compressor Heat	No			No		No	
Outdoor Fan	Propeller			Propeller		Propeller	
Dia. (in.) - No. Used	23 - 1			27.5 - 1		27.5 - 1	
Type Drive - No. Speeds	Direct - 1			Direct - 1		Direct - 1	
CFM @ 0.0 (in.) W.G. ^(f)	3314			5221		5109	
No. Motors - HP	1 - 1/8			1 - 1/5		1 - 1/5	
Motor Speed – rpm	825			850		850	

Product Specifications

Table 2. Models — A5AC3042A1000A/B/C, A5AC3048A1000A/B, and A5AC3060A1000A/B (continued)

Outdoor Unit ^(a) ^(b)	A5AC3042A1000	A5AC3048A1000	A5AC3060A1000
Volts/Ph/Hz	208/230/1/60	208/230/1/60	208/230/1/60
F.L. Amps	0.64	1.05	1.05
Outdoor Coil - Type	All Aluminum	All Aluminum	All Aluminum
Rows - F.P.I.	1 - 24	1 - 24	1 - 24
Face Area (sq. ft.)	21.25	24.93	24.93
Tube Size (in.)	3/8	3/8	3/8
Refrigerant			
lb — R-454B (O.D. Unit) ^(g)	4 lb, 11 oz	4 lb, 15 oz	5 lb, 5 oz
Factory Supplied	Yes	Yes	Yes
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 ^(h) ⁽ⁱ⁾	7/8	7/8	7/8
Line Size - (in.) O.D. Liq.	5/16	5/16	5/16
Charging Specifications			
Subcooling	10°F	10°F	10°F
Dimensions	H × W × D		
Crated (in.)	42 × 31.1 × 31.1	42 × 35.6 × 35.6	42 × 35.6 × 35.6
Weight			
Shipping (lb)	230	246	251
Net (lb)	194	211	220
Optional Accessories:			
Rubber Isolator Kit	BAYISLT101	BAYISLT101	BAYISLT101
Snow Leg — Base and Cap 4 in. High	BAYLEGS002	BAYLEGS002	BAYLEGS002
Snow Leg — 4 in. Extension	BAYLEGS003	BAYLEGS003	BAYLEGS003
Extreme Condition Mounting Kit	BAYECMT023	BAYECMT023	BAYECMT023
Refrigerant Lineset ^(j)			

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

^(b) Rated in accordance with AHRI standard 270.

^(c) Calculated in accordance with Natl. Elec. Codes. Use only HACR circuit breakers or fuses.

^(d) This value shown for compressor RLA on the unit nameplate and on this specification sheet is used to compute minimum branch circuit ampacity and max. fuse size. The value shown is the branch circuit selection current.

^(e) Use start components only when compressor is found to enter locked rotor condition and will not start or when lights dim at compressor start." No means no start components. Yes means quick start kit components. PTC means positive temperature coefficient starter. Optional kit shown.

^(f) Standard Air - Dry Coil - Outdoor.

^(g) This value approximate. For more precise value see unit nameplate.

^(h) 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).

⁽ⁱ⁾ 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. Always verify proper system charge via subcooling (TXV/EEV) or superheat (fixed orifice) per the unit nameplate.

^(j) 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

Table 3. Models — A5AC3018A, A5AC3024A, A5AC3030A, A5AC3036A, A5AC3042A, A5AC3048A, and A5AC3060A

Model	A-Weighted Sound Power Level [dB (A)]	Full Octave Sound Power(dB)							
		63 Hz ^(a)	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
A5AC3018A	71	74	71	65	68	67	63	56	50
A5AC3024A	71	74	71	65	68	67	63	56	50
A5AC3030A	73	79	69	67	70	70	64	59	53
A5AC3036A	73	79	69	67	70	70	64	59	53
A5AC3042A	73	79	69	67	70	70	64	59	53
A5AC3048A	71	81	72	69	69	66	60	57	54
A5AC3060A	71	81	72	69	69	66	60	57	54

Note: Rated in accordance with AHRI Standard 270–2008.

^(a) For reference only.

Figure 1. Models – A5AC3018, 024, 030, 036, 042, and 048

SEE PRODUCT DATA FOR OPTIONAL START KIT ACCESSORY

GR/YL

BR/RD

MS-1

RD

OD FAN MTR

BR

PR

BK

THERMALLY PROTECTED INTERNALLY

CAPACITOR

F

C

H

OR

OR

RD

BK/BL

MS-2

BK/BL

BK

CS

CSR-1

CSR

1

2

5

CF

CN

CPR

CR

CS

CSR

F

HPCO

LPCO

IOL

SM

MS

ODA

OFT

ODS

ODT

SC

TDL

TNS

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 CUTOOUT SWITCH

LPCO LOW PRESSURE CUTOOUT 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
LA TERRE

TO POWER SUPPLY
PER LOCAL CODES

PRINTED FROM D157362P08 REV A

Figure 2. Models – A5AC3018, 024, 030, 036, 042, and 048

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.

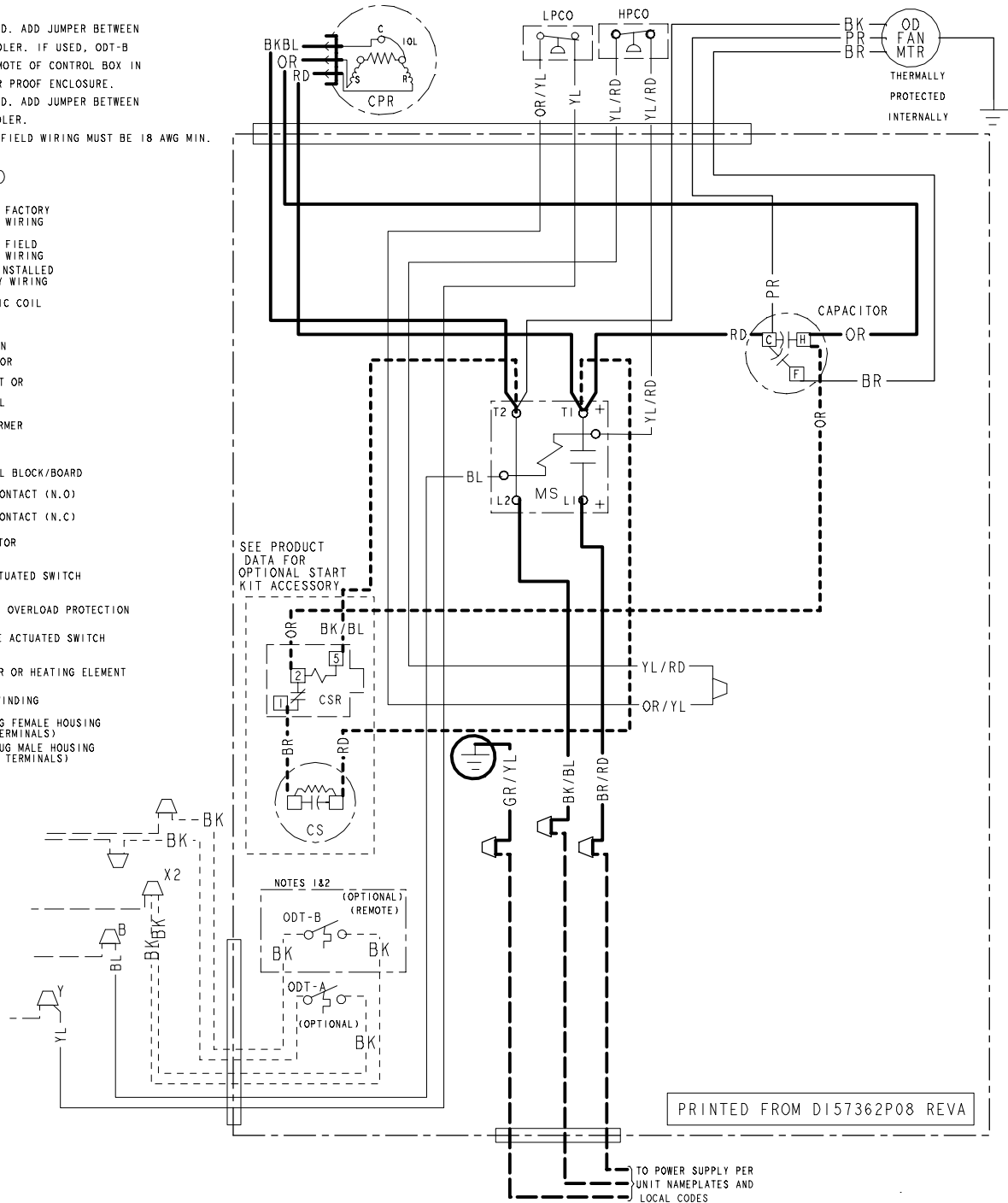
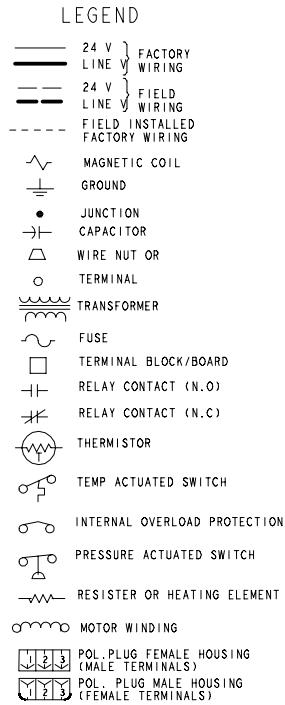
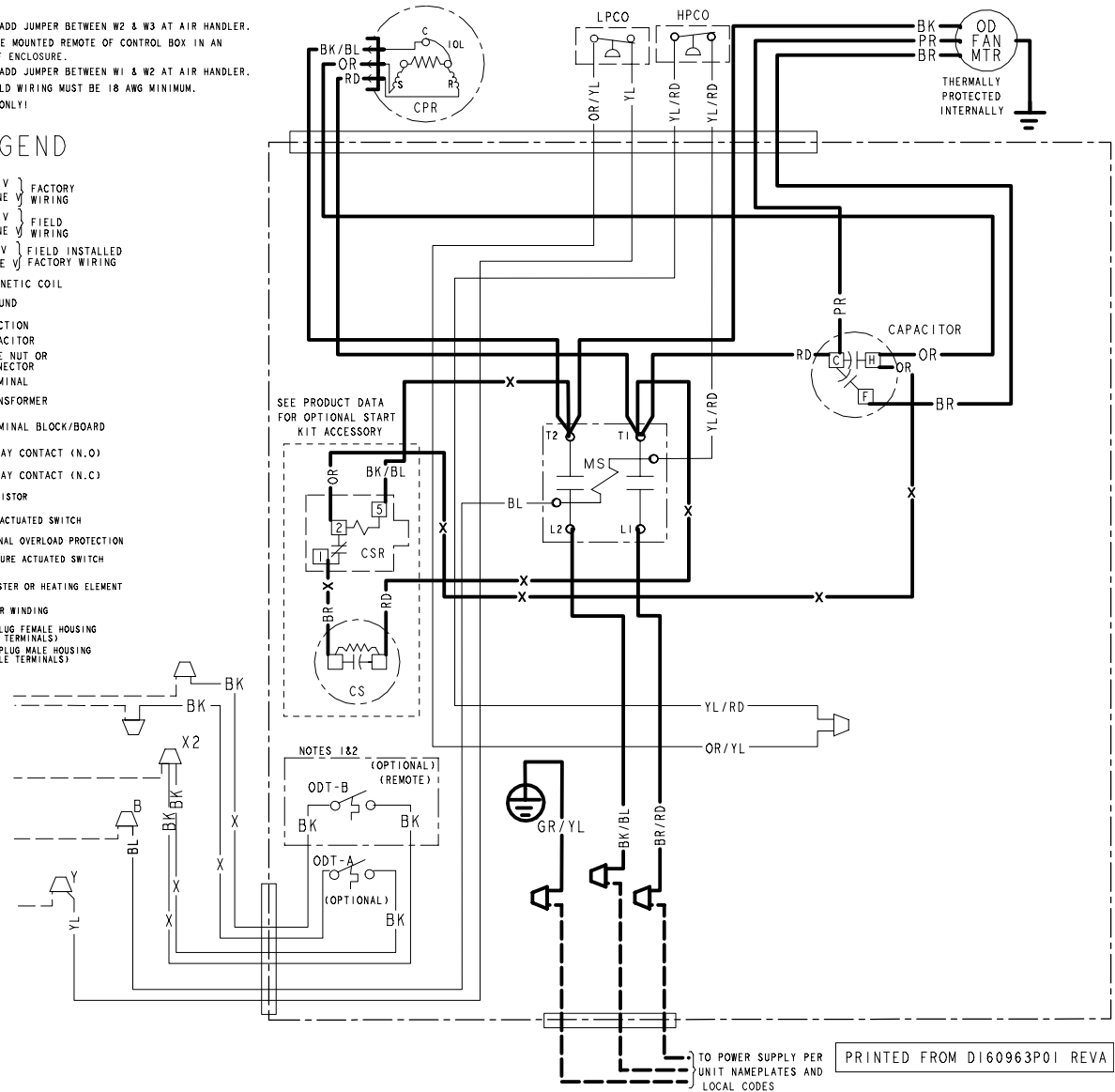
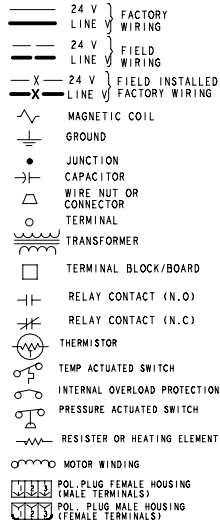


Figure 4. Model – A5AC3060

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



Dimensional Data

Figure 5. Dimensional drawing

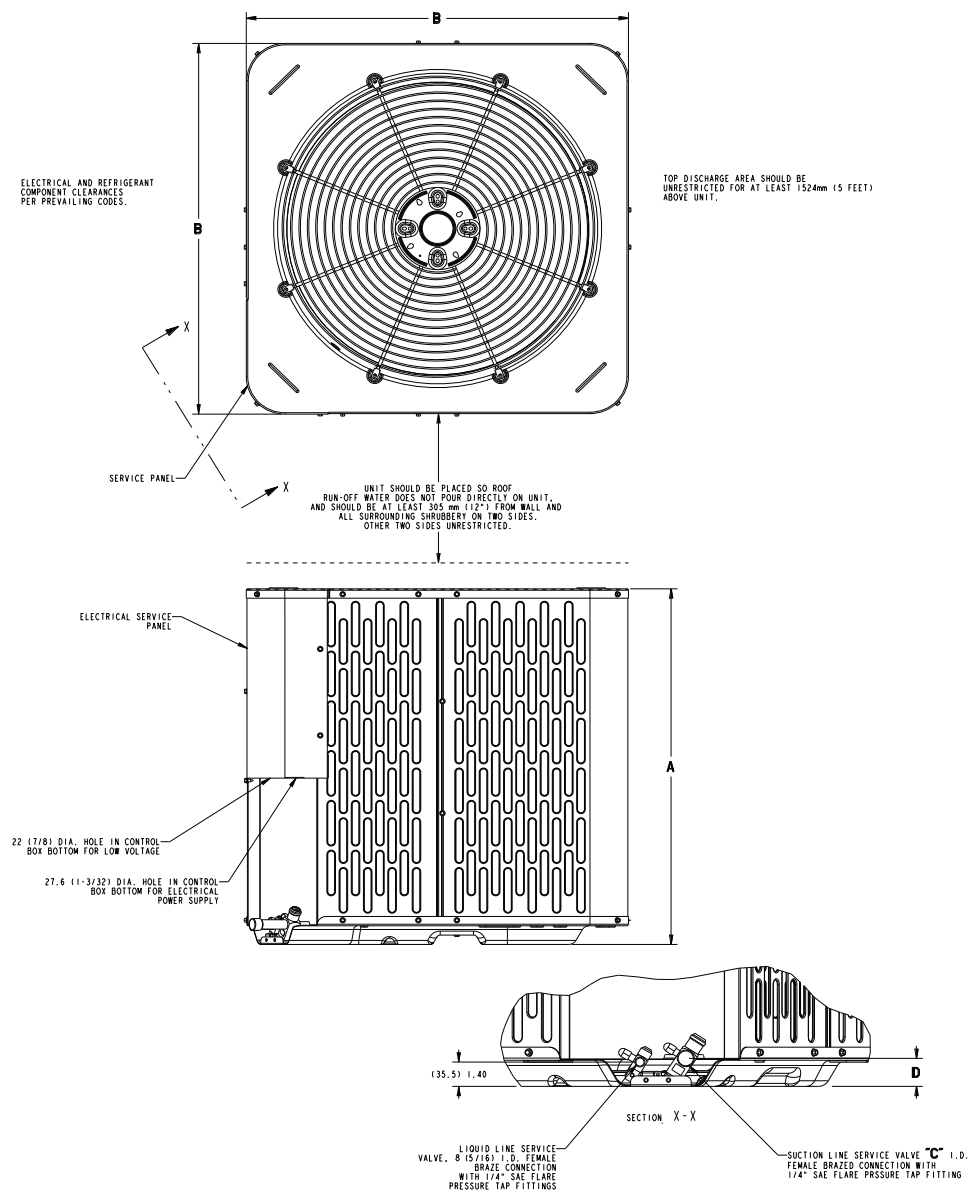


Table 4. Unit dimensions (mm (inch))

Model	Base	A	B	C	D
A5AC3018A	2.2	727 (28-5/8)	651 (25-5/8)	19 (3/4)	41 (1-5/8)
A5AC3024A	2.2	727 (28-5/8)	651 (25-5/8)	19 (3/4)	41 (1-5/8)
A5AC3030A	3.2	727 (28-5/8)	756 (29-3/4)	19 (3/4)	41 (1-5/8)
A5AC3036A	3.2	727 (28-5/8)	756 (29-3/4)	19 (3/4)	41 (1-5/8)
A5AC3042A	3.4	930 (36-5/8)	756 (29-3/4)	19 (3/4)	41 (1-5/8)
A5AC3048A	4.4	930 (36-5/8)	870 (34-1/4)	22 (7/8)	43 (1-3/4)
A5AC3060A	4.4	930 (36-5/8)	870 (34-1/4)	22 (7/8)	43 (1-3/4)

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.

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 BAYLOAM108 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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