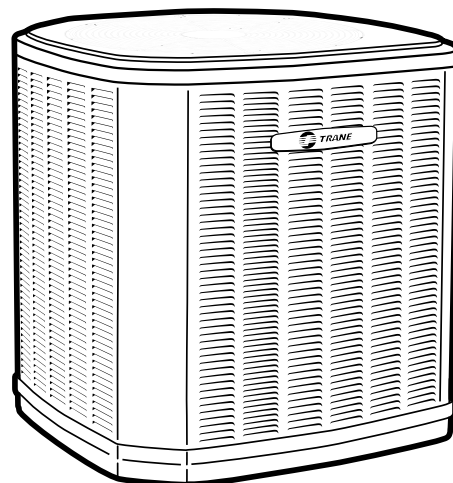




Product and Submittal Data

Air Conditioner

5TTR6018A
5TTR6024A
5TTR6030A
5TTR6036A
5TTR6042A
5TTR6048A
5TTR6060A



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



Introduction

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Revision History

- Updated model numbers on the cover page.
- Updated the Product Specifications table in the Product Specifications chapter.



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Model Number Description

Digit 1 – Refrigerant Type

5 = R-454B

Digit 2 – Brand

T = Trane

Digit 3 – System Type

C = Cold Climate Heat Pump

T = AC

W = HP

Digit 4 – Product Family

A = Light Commercial

B = XB

R = Wire Top Grille

V = VSPD

X = WeatherGuard Top

Digit 5 – Nominal Rated SEER2

0 = 20 SEER2

3 = 13 SEER2

4 = 14 SEER2

5 = 15 SEER2

6 = 16 SEER2

7 = 17 SEER2

8 = 18 SEER2

Digit 6 – Field Connection

0 = Brazed

5 = Mechanical

X = Link™

Digit 7, 8 – Nominal Tonnage

12 = 1.0

18 = 1.5

19 = 1.5

24 = 2.0

25 = 2.0

30 = 2.5

31 = 2.5

36 = 3.0

37 = 3.0

42 = 3.5

43 = 3.5

48 = 4.0

49 = 4.0

60 = 5.0

61 = 5.0

72 = 6.0

Digit 9 – Major Design Change

A Thru Z Mode = No F, I, O

Digit 10 – Power Supply (Voltage/Ph/Hz)

1 = 200-208-230/1/60

3 = 200-230/3/60

4 = 460/3/60

5 = 400/3/60

A = 220-240/1/50

D = 380-415/3/50

Digit 11, 12, 13 – Other Functions

000 = Typical-no meaning

B = XB

R = Wire Top Grille

V = VSPD

X = WeatherGuard Top

Digit 14 – Minor Design Change

A Thru Z Mode = No F, I, O

Digit 14 – Service Digit - Not Orderable

A Thru Z Mode = No F, I, O



Product Specifications

Table 1. Models — 5TTR6018A, 5TTR6024A, 5TTR6030A, and 5TTR6036A

Outdoor Unit ^{(a) (b)}	5TTR6018A	5TTR6024A	5TTR6030A		5TTR6036A	
14 th Digit of the Model Number	A	A	A	B	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	15	17	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	6.9 - 45	10.9 - 60	12.5 - 67	12.7 - 76	13.5 - 75	13.5 - 83
Factory Installed						
Start Components ^(e)	No	No	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	23.02 – 1	23 – 1	23 – 1		23 – 1	
Type Drive - No. Speeds	Direct – 1	Direct – 1	Direct – 1		Direct – 1	
CFM @ 0.0 IN. W.G. ^(f)	2992	3068	3243		3124	
No. Motors – hp	1 – 1/8	1 – 1/8	1 – 1/8		1 – 1/8	
Motor Speed – rpm	825	825	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	0.77	0.77		0.77	
Outdoor Coil - Type	Spine Fin™	Spine Fin™	Spine Fin™		Spine Fin™	
Rows - F.P.I.	1 – 24	1 – 24	1 – 24		1 – 24	
Face Area (Sq. Ft.)	21.25	18.75	21.25		18.75	
Tube Size (In.)	3/8	3/8	3/8		3/8	
Refrigerant						
lb – R-454B (O.D. Unit) ^(g)	3 lb, 12 oz	3 lb, 10 oz	3 lb, 8 oz		3 lb, 8 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.)	42 × 30 × 33	38 × 30 × 33	42 × 30 × 33		38 × 30 × 33	
Weight						
Shipping (lb)	220	183	220		183	
Net (lb)	184	156	184		156	



Product Specifications

Table 1. Models — 5TTR6018A, 5TTR6024A, 5TTR6030A, and 5TTR6036A (continued)

Outdoor Unit ^{(a) (b)}	5TTR6018A	5TTR6024A	5TTR6030A	5TTR6036A
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	TAYSVPAN-L0032AA	TAYSVPAN-L0032AA	TAYSVPANL0044AA	TAYSVPANL0044AA
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/EV) 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 — 5TTR6042A, 5TTR6048A, and 5TTR6060A

Outdoor Unit ^{(a) (b)}	5TTR6042A		5TTR6048A			5TTR6060A	
14 th Digit of the Model Number	A	B	A	B	C	A	B
Power Conns. – V/Ph/Hz ^(c)	208/230/1/60		208/230/1/60			208/230/1/60	
Min. BRCH. CIR. Ampacity	19	23	23	25	24	28	30
BR. CIR. PROT. RTG. – Max. (Amps)	30	40	35	45	40	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	17.9 - 95.9	17.3 - 126	19.6 - 118	18.1 - 95	21.8 - 143	23.4 - 134
Factory Installed							
Start Components ^(e)	No		No			No	
Insulation/Sound Blanket	No		No			No	
Compressor Heat	No		No			No	
Outdoor Fan	Propeller		Propeller			Propeller	
Dia. (in.) - No. Used	27.5 – 1		27.5 – 1			27.5 – 1	
Type Drive - No. Speeds	Direct – 1		Direct – 1			Direct – 1	
CFM @ 0.0 IN. W.G. ^(f)	4841		5165			5180	
No. Motors - HP	1 – 1/5		1 – 1/5			1 – 1/3	
Motor Speed – rpm	850		850			850	
Volts/Ph/Hz	208/230/1/60		208/230/1/60			208/230/1/60	

Table 2. Models — 5TTR6042A, 5TTR6048A, and 5TTR6060A (continued)

Outdoor Unit ^{(a) (b)}	5TTR6042A	5TTR6048A	5TTR6060A
F.L. Amps	1.05	1.05	2.8
Outdoor Coil - Type	Spine Fin™	Spine Fin™	Spine Fin™
Rows - F.P.I.	1 – 24	1 – 24	1 – 24
Face Area (Sq. Ft.)	24.93	30.8	30.8
Tube Size (In.)	3/8	3/8	3/8
Refrigerant			
lb – R-454B (O.D. Unit) ^(g)	5 lb, 1 oz	6 lb, 10 oz	5 lb, 15 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	1-1/8
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.)	42.5 × 35 × 38	50.5 × 35 × 38	50.5 × 35 × 38
Weight			
Shipping (lb)	246	307	302
Net (lb)	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	BAYCCHT301	BAYCCHT301	BAYCCHT301
Seacoast Kit	BAYSEAC001	BAYSEAC001	BAYSEAC001
Low Ambient Kit	BAYLOAM103	BAYLOAM103	—
Service Valve Panel Cover	TAYSVPANL0044AA	TAYSVPANL0046AA	TAYSVPANL0046AA
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. Sound power level

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
5TTR6018A	73	79	69	67	70	70	64	59	53
5TTR6024A	71	78	72	69	68	66	61	58	53
5TTR6030A	73	79	69	67	70	70	64	59	53
5TTR6036A	71	78	72	69	68	66	61	58	53
5TTR6042A	71	78	72	69	68	66	61	58	53
5TTR6048A	71	81	75	71	70	68	63	58	53
5TTR6060A	71	81	75	71	70	68	63	58	53

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

^(a) 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 start-up. 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

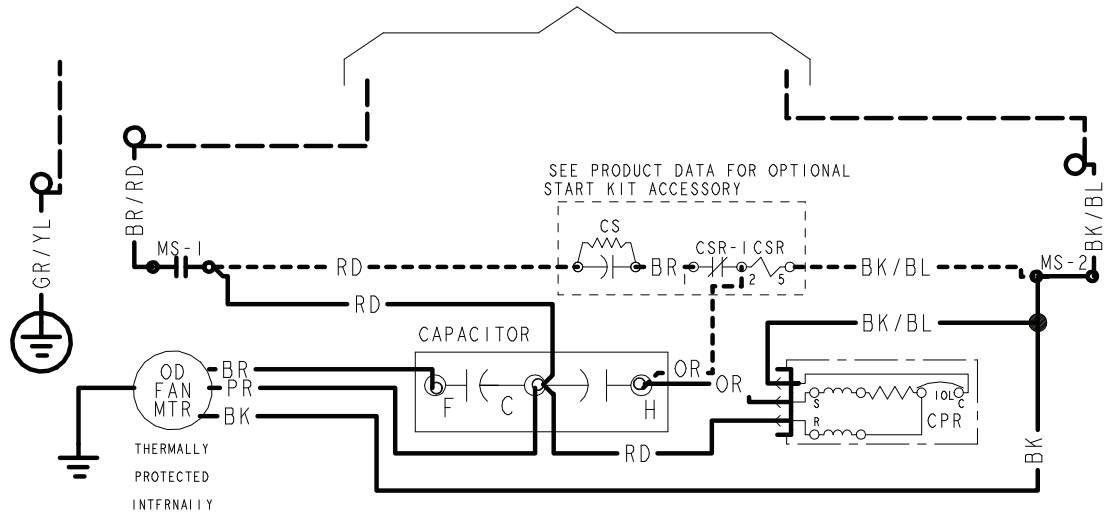
1. Cooling 80°F DB, 67°F WB air entering indoor coil, 95°F DB air entering outdoor coil.
2. High Temperature Heating 47°F DB, 43°F WB air entering outdoor coil, 70°F DB air entering indoor coil.
3. Low Temperature Heating 17°F DB air entering indoor coil.
4. Rated indoor airflow for heating is the same 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.

Wiring Diagrams

Figure 1. Models 5TTR6018A, 024A, 030A, 036A, 042A, and 048A

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 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

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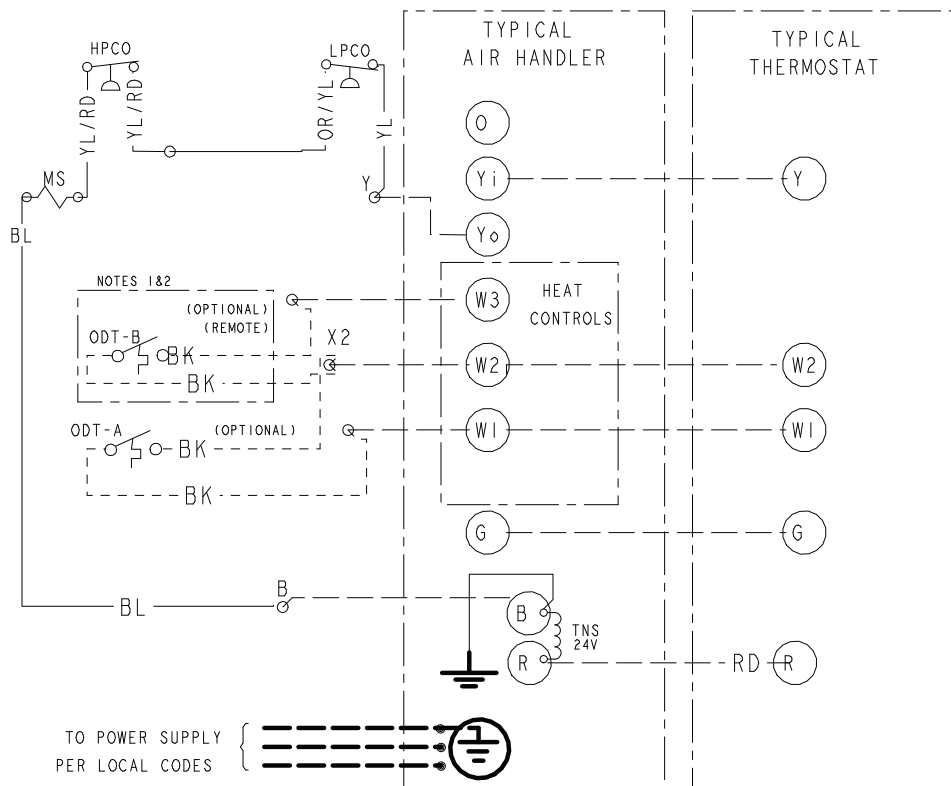
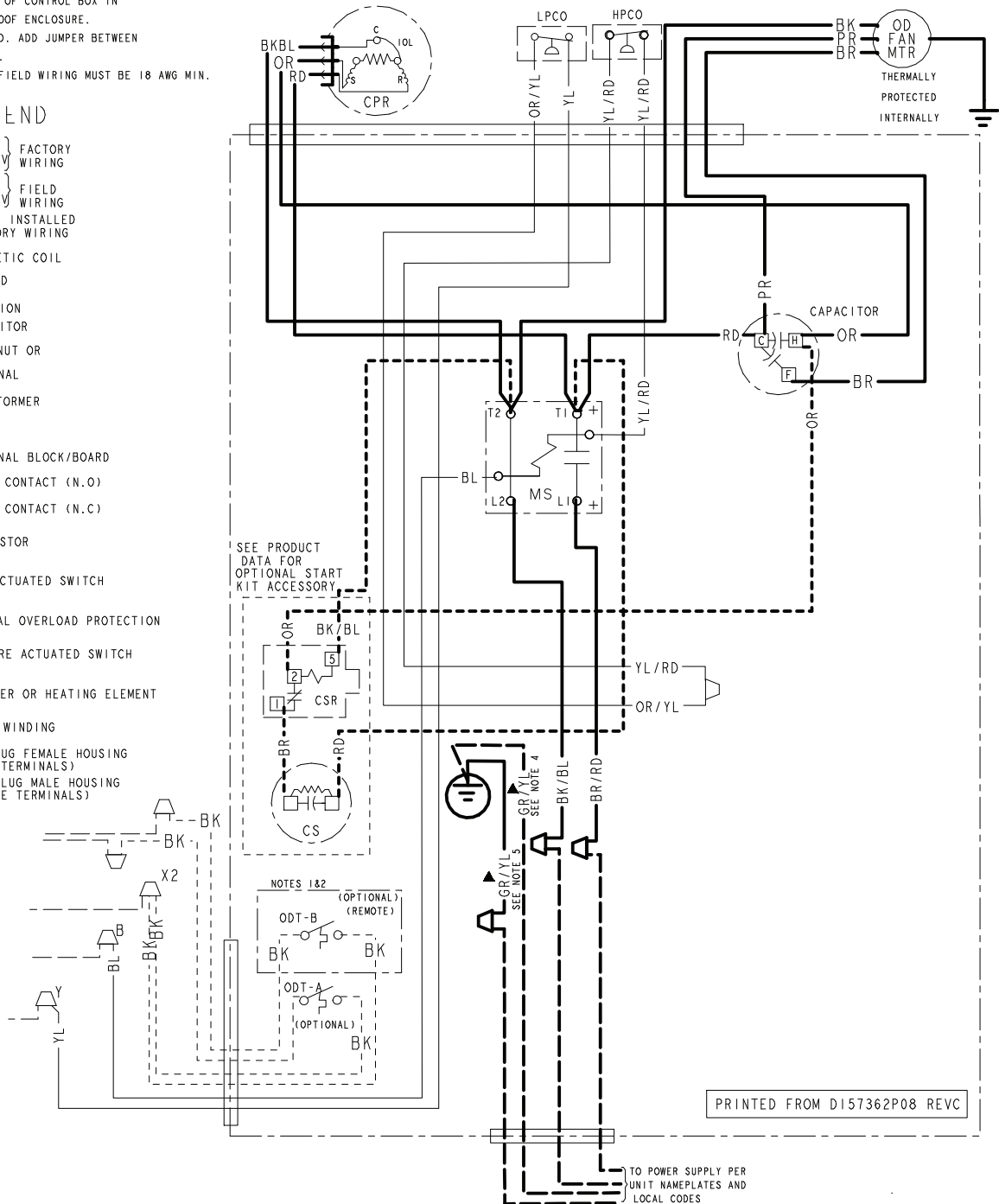
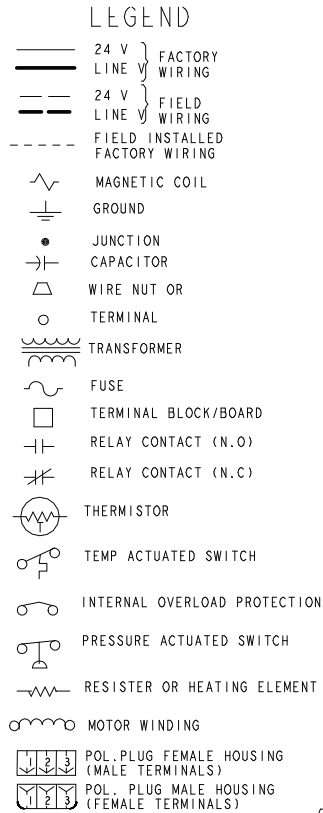


Figure 2. Models — 5TTR6018A, 024A, 030A, 036A, 042A, and 048A

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.





Wiring Diagrams

Figure 3. Model — 5TTR6060A

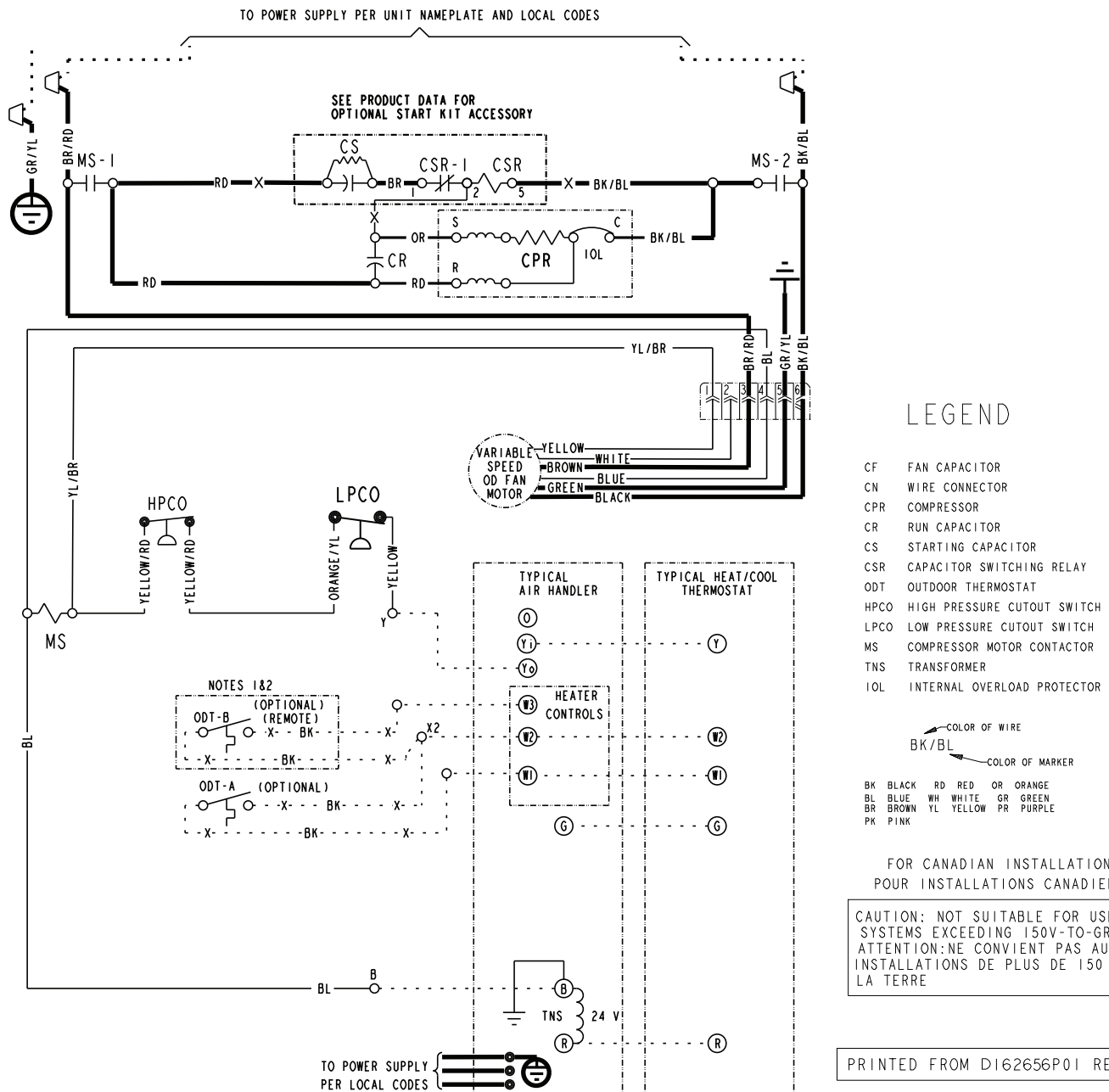


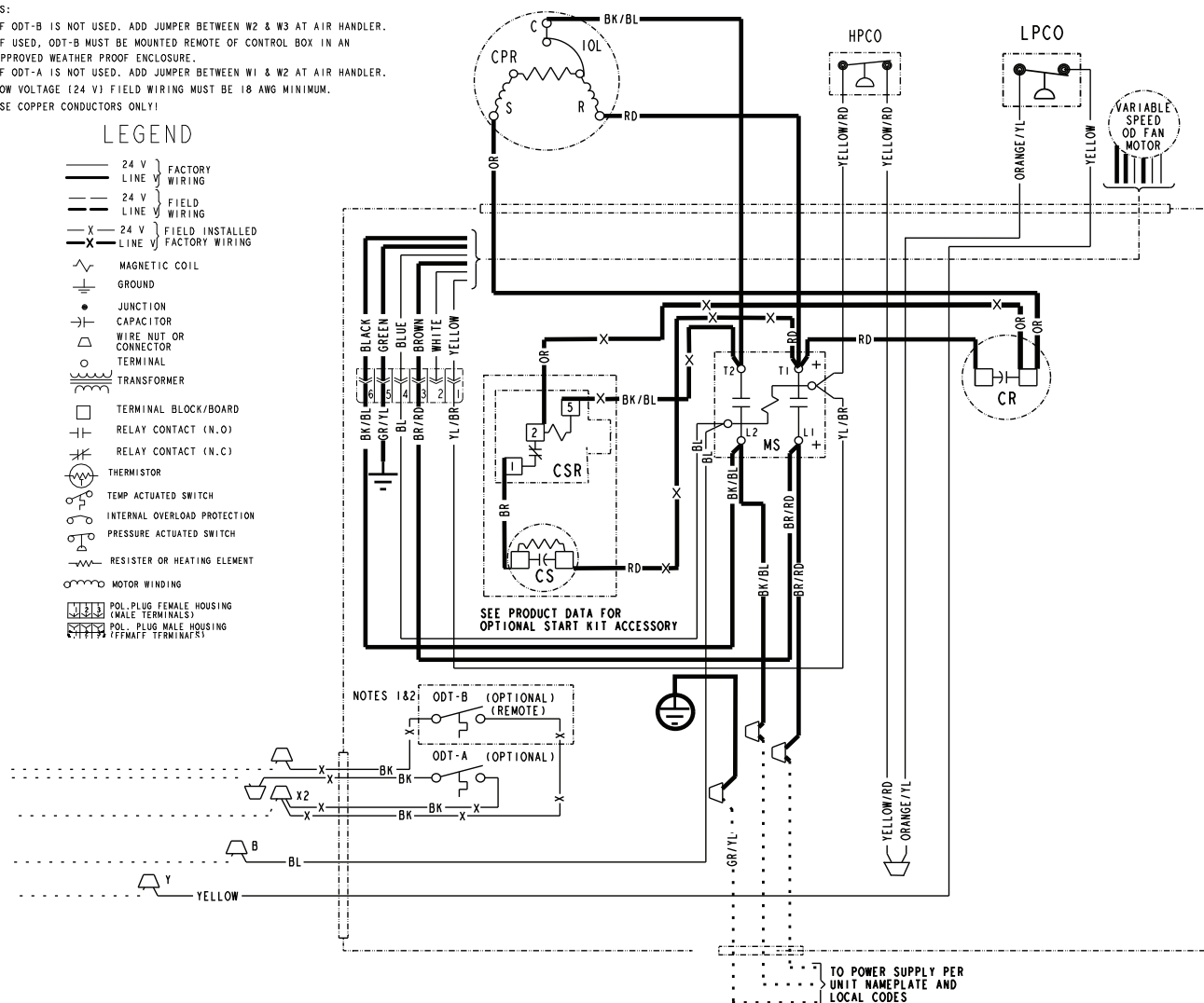
Figure 4. Model — 5TTR6060A

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
- LINE V } WIRING
- 24 V } FIELD
- LINE V } WIRING
- X- 24 V } FIELD INSTALLED
- X- LINE V } FACTORY 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)



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Dimensional Data

Figure 5. Dimensional drawing

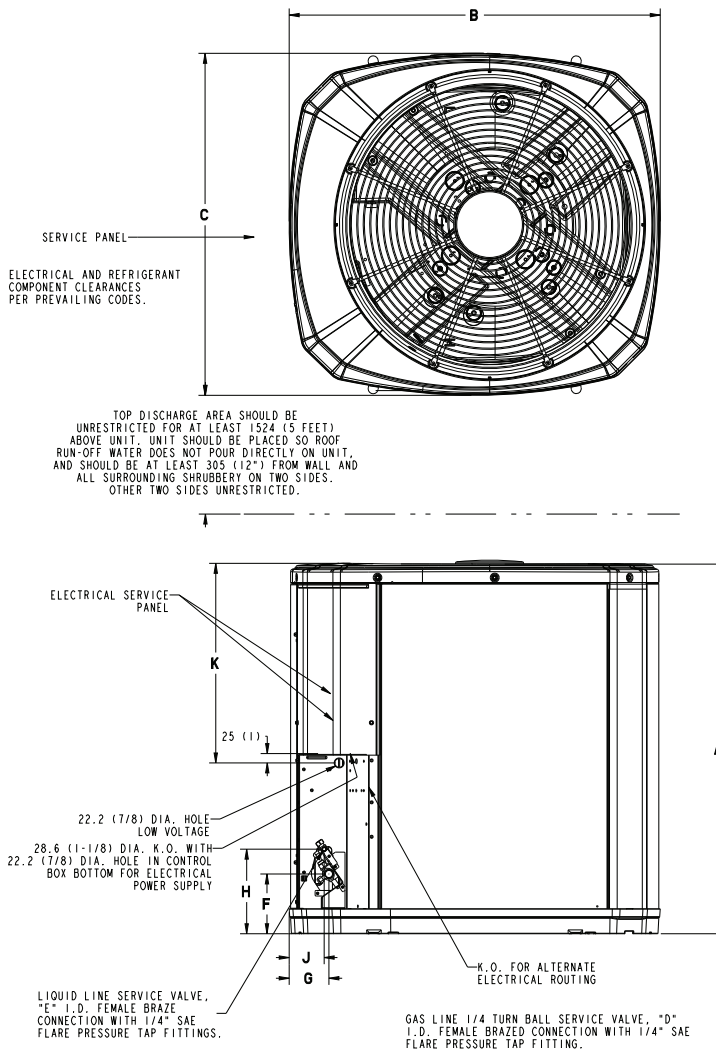


Table 4. Unit dimensions – mm/inches

Model	Base	A	B	C	D	E	F	G	H	J	K
5TTR6018A	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)
5TTR6024A	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)
5TTR6030A	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)
5TTR6036A	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)
5TTR6042A	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)
5TTR6048A	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)
5TTR6060A	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.



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