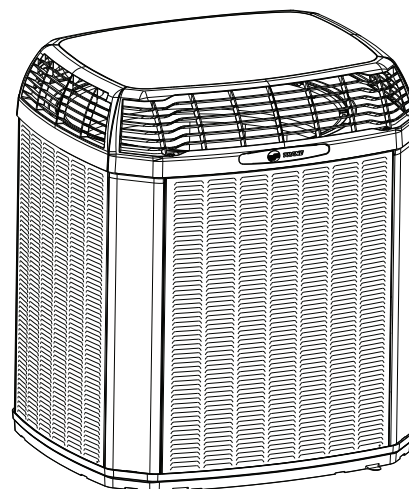




Product and Submittal Data

Split System Cooling

5TTX5018A1000A
5TTX5024A1000A
5TTX5030A1000A/B
5TTX5036A1000A/B
5TTX5042A1000A/B
5TTX5048A1000A/B
5TTX5060A1000A/B



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



Copyright

This document and the information in it are the property of Trane, and may not be used or reproduced in whole or in part without written permission. Trane reserves the right to revise this publication at any time, and to make changes to its content without obligation to notify any person of such revision or change.

Trademark

All trademarks referenced in this document are the trademarks of their respective owners.

Revision History

Updated Product Specifications tables.



Table of Contents

Product Specifications	4
Sound Power Level	7
Accessory Description and Usage	8
Model Nomenclature	8
Wiring Diagrams	9
Dimensional Data	13
Mechanical Specification Options	14



Product Specifications

Table 1. Models — 5TTX5018A1000A, 5TTX5024A1000A, 5TTX5030A1000A/B, and 5TTX5036A1000A/B

Outdoor Unit ^{(a) (b)}	5TTX5018A1000	5TTX5024A1000	5TTX5030A1000		5TTX5036A1000	
14th 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	
RL Amps ^(d) – LR 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	23.0 – 1	23.0 – 1	23.0 – 1		23.0 – 1	
Type Drive – No. Speeds	Direct – 1	Direct – 1	Direct – 1		Direct – 1	
CFM @ 0.0 IN. W.G. ^(f)	3000	3070	3250		3130	
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		7/8	
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 x W x D					
Crated (in.)	47 x 30 x 33	43 x 30 x 33	47 x 30 x 33		43 x 30 x 33	
Weight						
Shipping (lb)	220	183	220		183	
Net (lb)	184	156	184		156	
Optional Accessories:						

Table 1. Models — 5TTX5018A1000A, 5TTX5024A1000A, 5TTX5030A1000A/B, and 5TTX5036A1000A/B (continued)

Outdoor Unit (a) (b)	5TTX5018A1000	5TTX5024A1000	5TTX5030A1000	5TTX5036A1000
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	BAYECMT004
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 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 N.E.C. Only use 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 — 5TTX5042A1000A/B, 5TTX5048A1000A/B, and 5TTX5060A1000A/B

Outdoor Unit (a) (b)	5TTX5042A1000		5TTX5048A1000		5TTX5060A1000	
14th Digit of the Model Number	A	B	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	19	23	23	25	28	30
BR. CIR. PROT. RTG. — Max. (Amps)	30	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	
RL Amps (d) — LR Amps	14.7 — 109	17.9 — 95.9	17.3 — 126	19.6 — 118	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	



Product Specifications

Table 2. Models — 5TTX5042A1000A/B, 5TTX5048A1000A/B, and 5TTX5060A1000A/B (continued)

Outdoor Unit ^(a) ^(b)	5TTX5042A1000	5TTX5048A1000	5TTX5060A1000
F.L. Amps	1.05	0.93	2.80
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 x W x D		
Crated (in.)	48 x 35 x 38	56 x 35 x 38	56 x 35 x 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	TAYSVPANL0046AA	TAYSVPANL0046AA	TAYSVPANL0046AA
Refrigerant Lineset ^(j)			

^(a) Certified in accordance with the 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 N.E.C. Only use 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
5TTX5018A	73	79	69	67	70	70	64	59	53
5TTX5024A	71	78	72	69	68	66	61	58	53
5TTX5030A	73	79	69	67	70	70	64	59	53
5TTX5036A	71	78	72	69	68	66	61	58	53
5TTX5042A	71	78	72	69	68	66	61	58	53
5TTX5048A	71	81	75	71	70	68	63	58	53
5TTX5060A	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

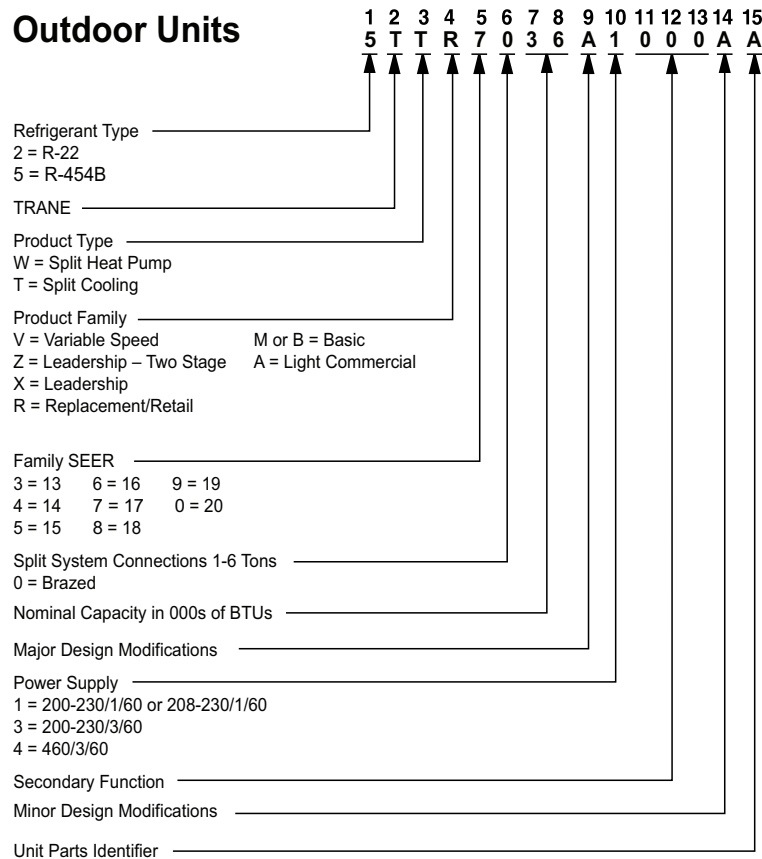
AHRI Standard 210/240 Rating Conditions

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.

Model Nomenclature

Outdoor Units

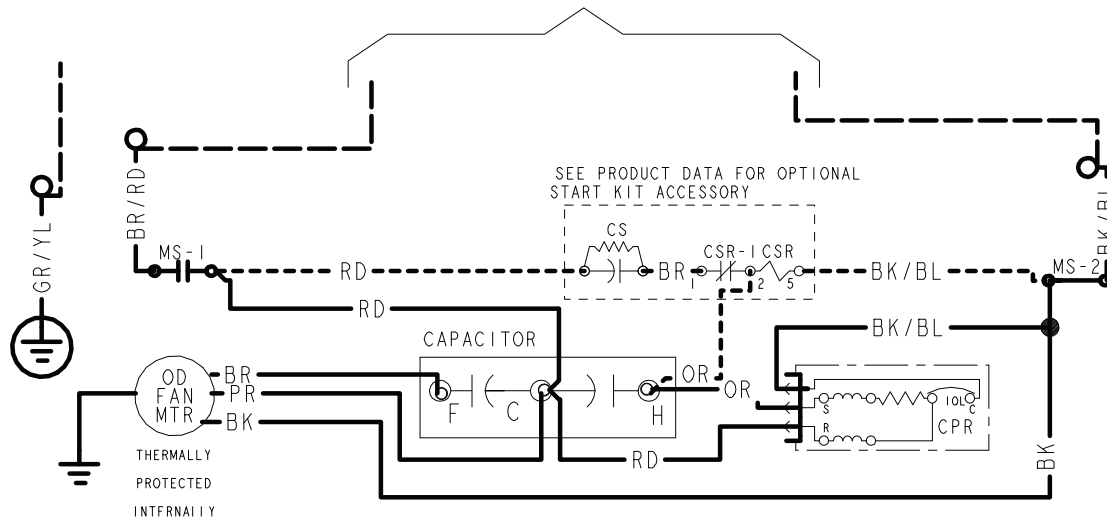




Wiring Diagrams

Figure 1. Models — 5TTX5018A, 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 CUTOFF SWITCH
LPCO	LOW PRESSURE CUTOFF 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

PRINTED FROM DI57362P08 REV C

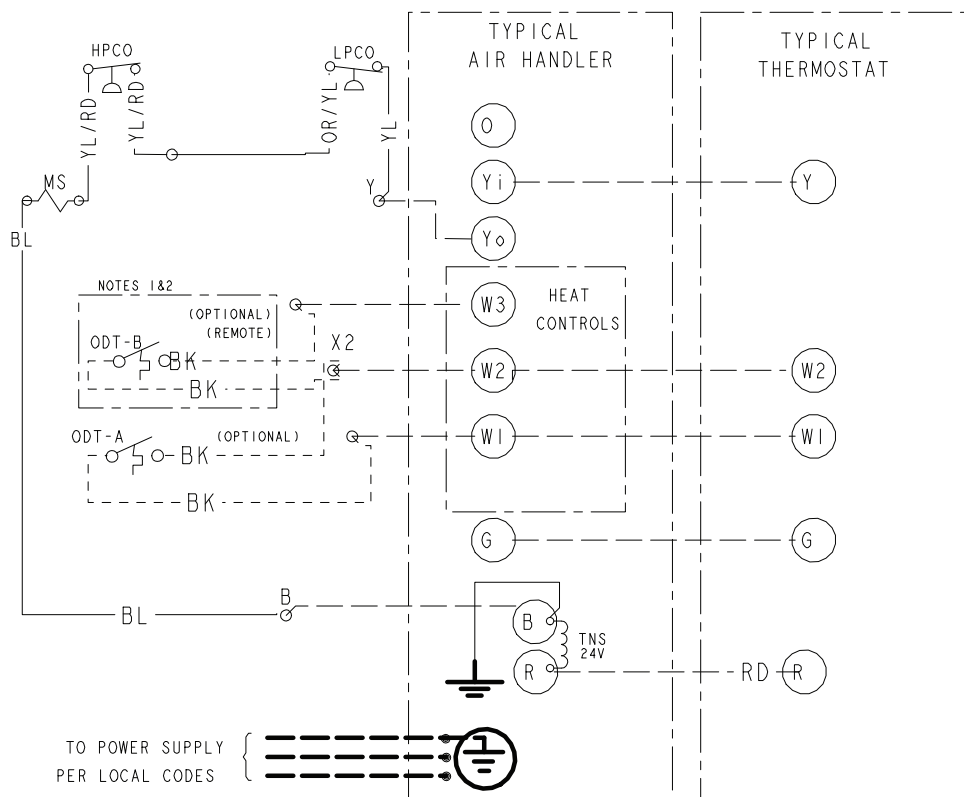


Figure 2. Models — 5TTX5018A, 024A, 030A, 036A, 042A, and 048A

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.

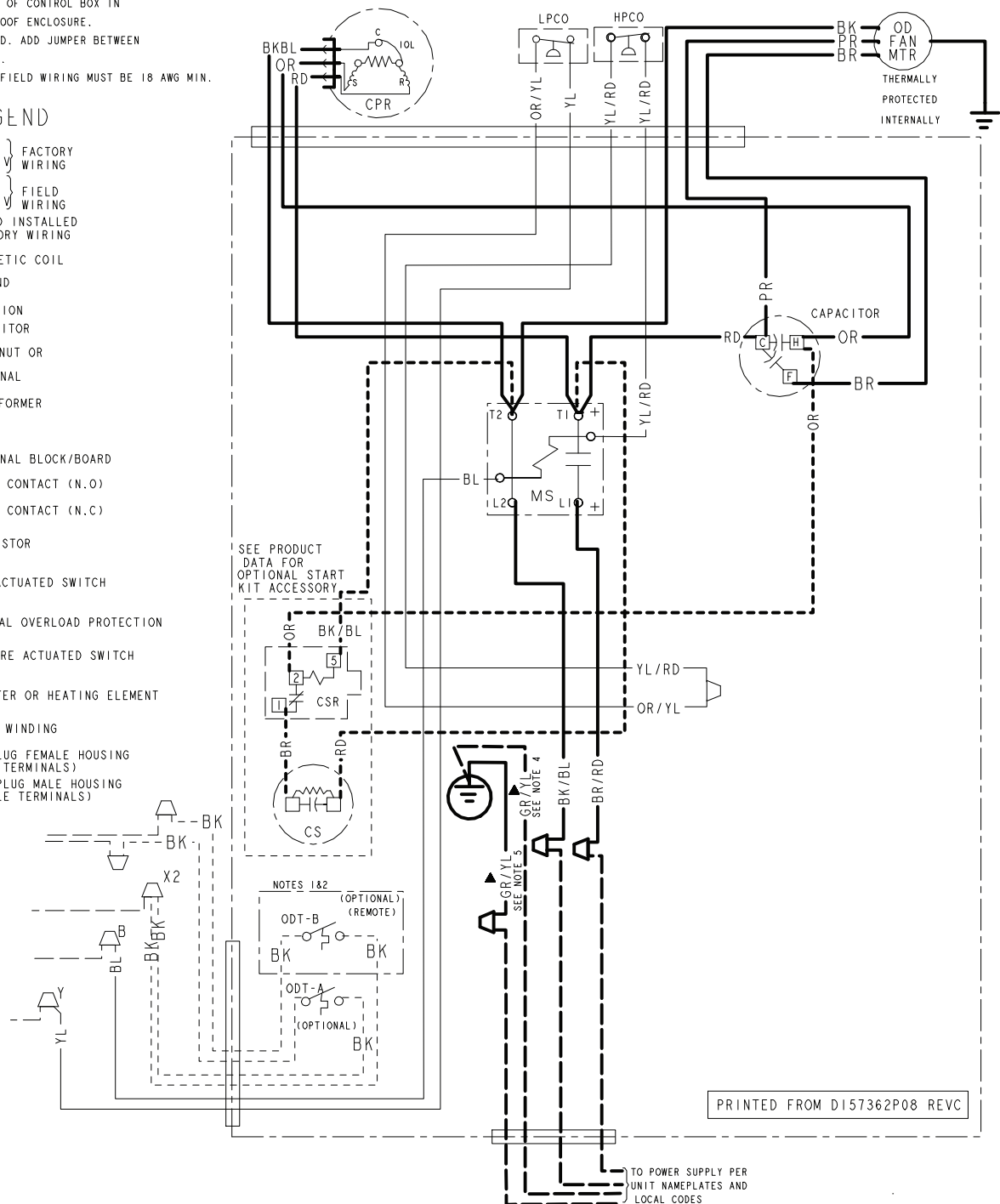
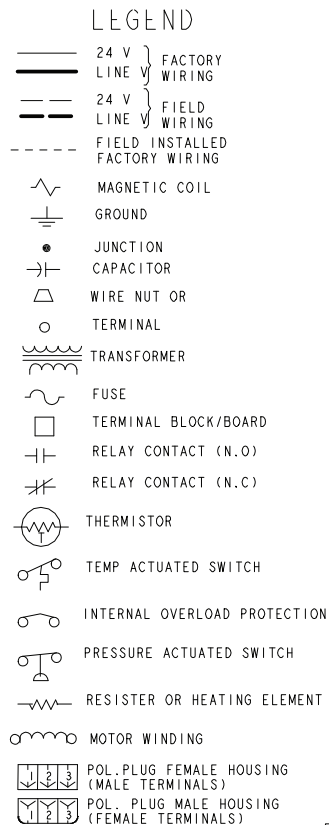
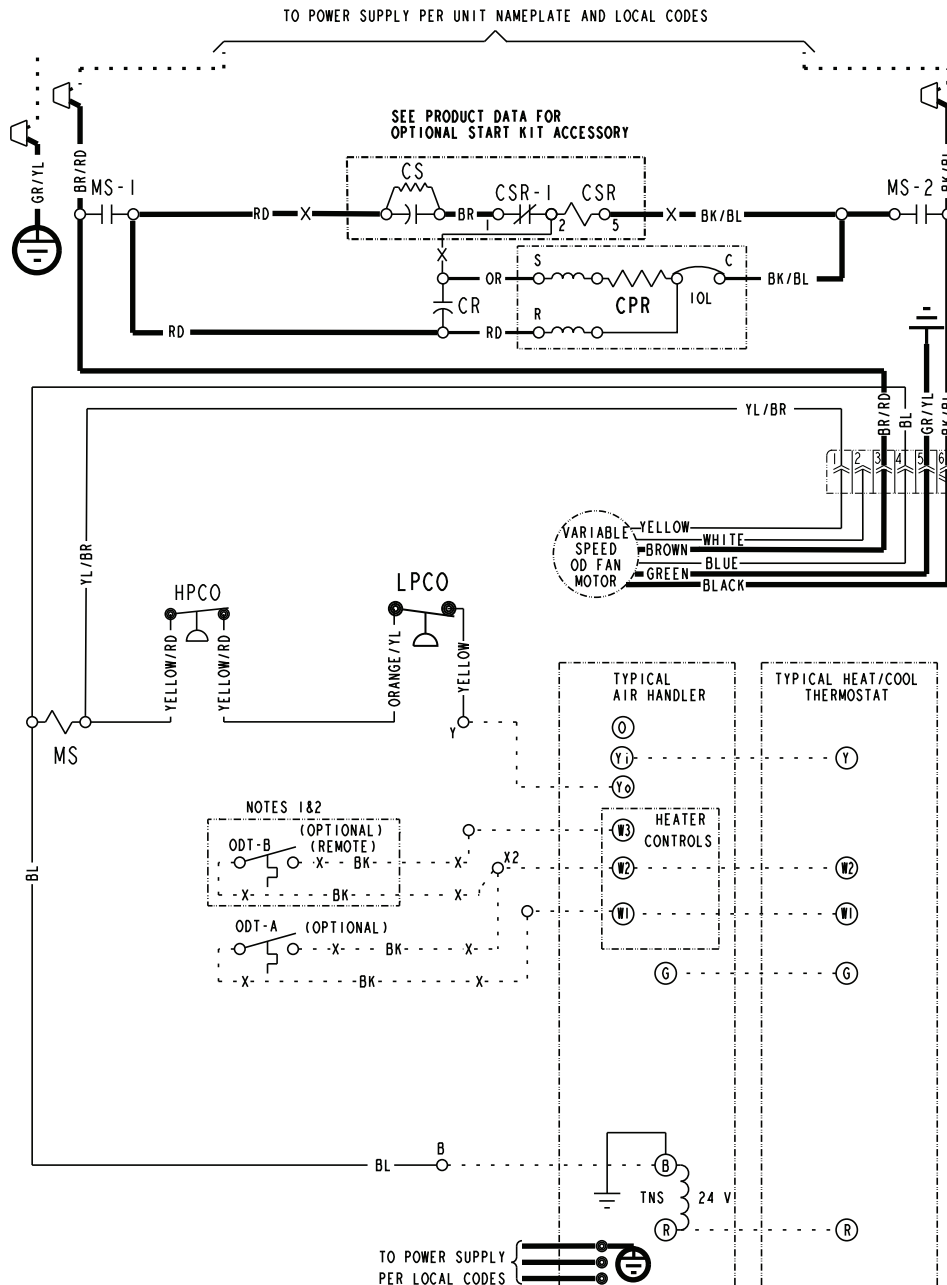


Figure 3. Model — 5TTX5060A



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 CUTOFF SWITCH
LPCO	LOW PRESSURE CUTOFF 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

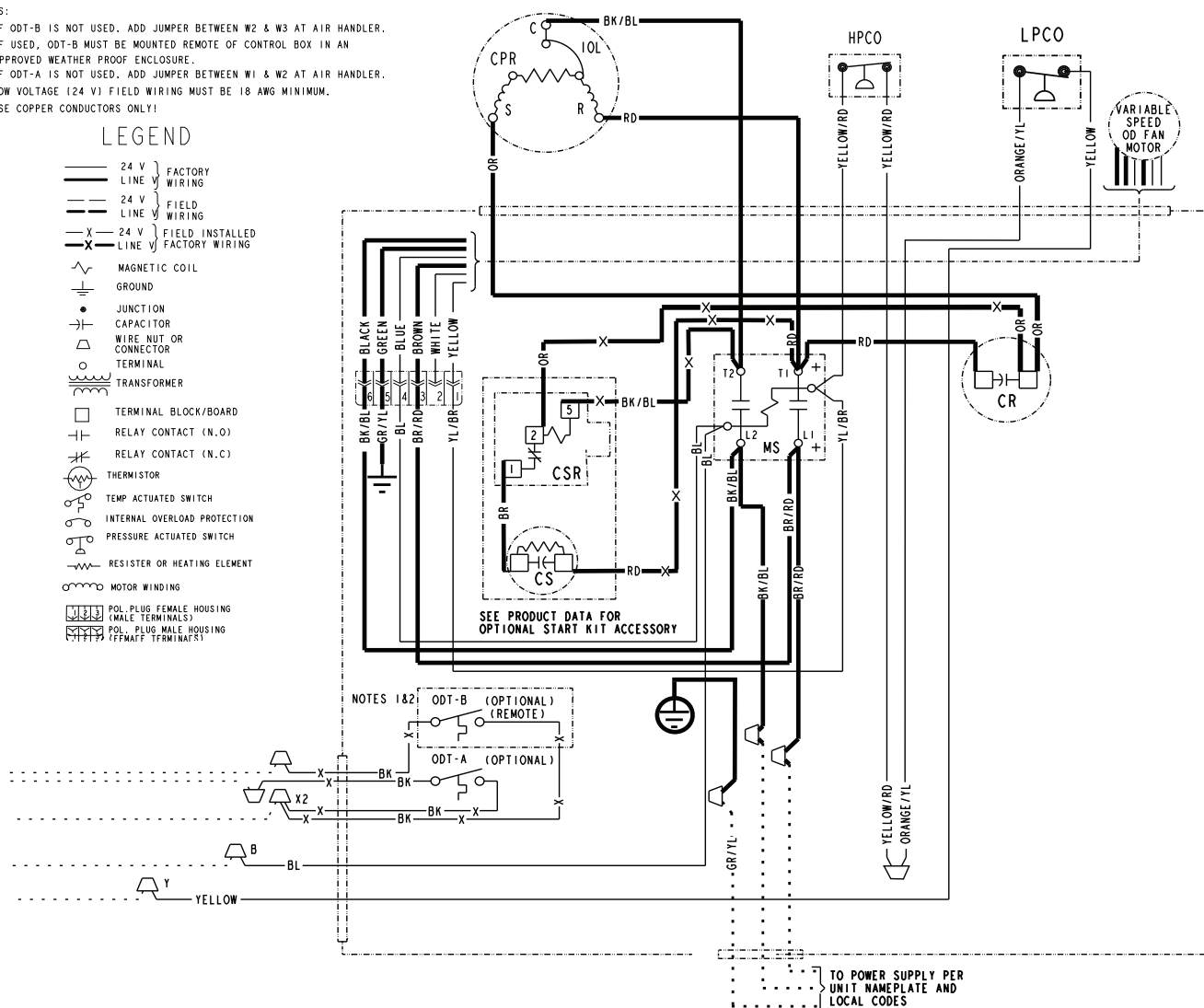
PRINTED FROM DI62656P01 REVA

Figure 4. Model — 5TTX5060A

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



PRINTED FROM DI62656P01 REVA

Dimensional Data

Figure 5. Dimensional drawing

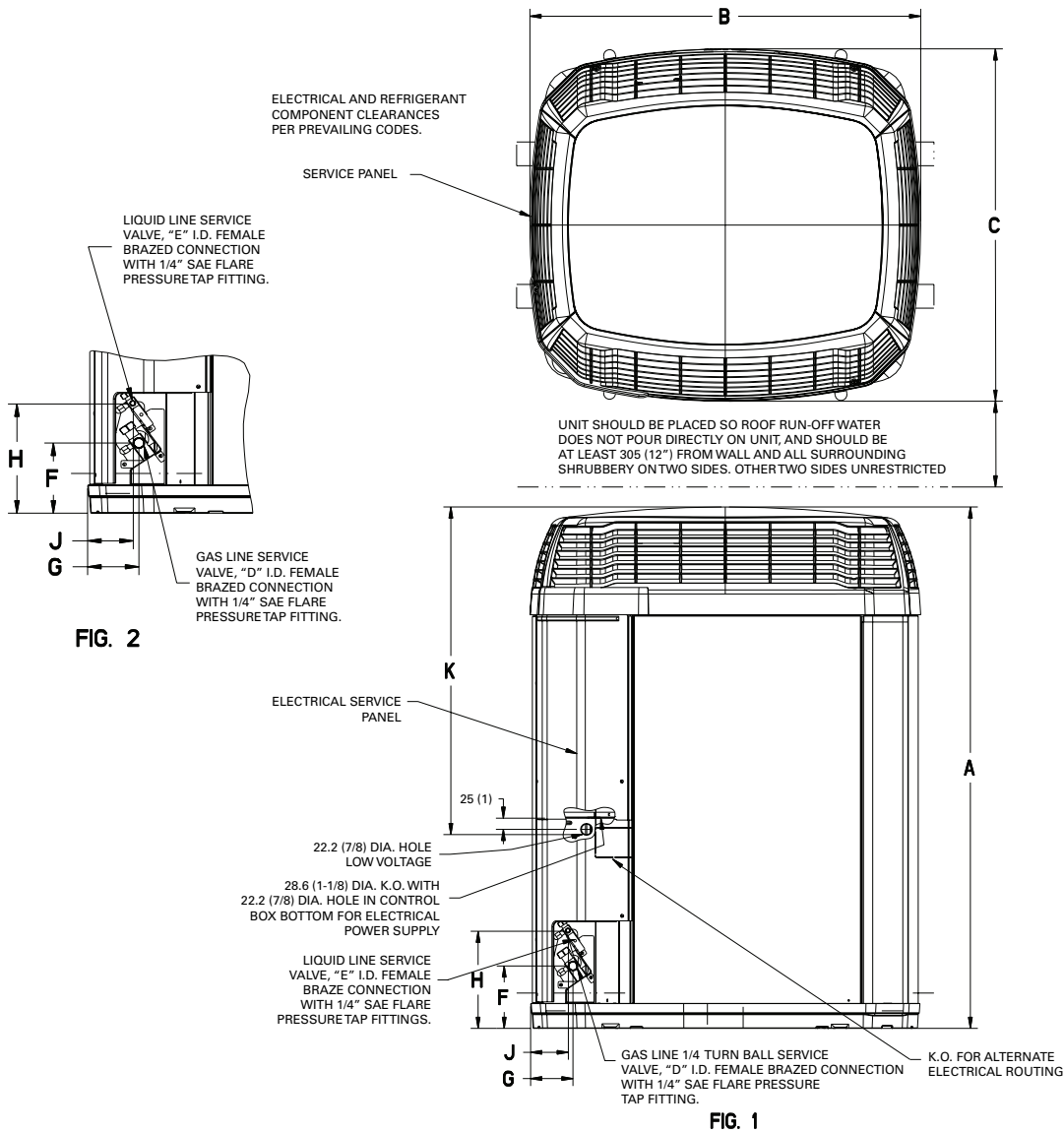


Table 4. Unit dimensions (mm (inch))

Model	Base	A	B	C	D	E	F	G	H	J	K
5TTX5018A	3	1077 (42.40)	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)	651 (25-3/5)
5TTX5024A	3	975 (38.40)	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)	651 (25-3/5)
5TTX5030A	3	1077 (42.40)	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)	651 (25-3/5)
5TTX5036A	3	975 (38.40)	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)	651 (25-3/5)
5TTX5042A	4	1103.02 (43.435)	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)	668.024 (26.31)
5TTX5048A	4	1307.024 (51.435)	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)	668.024 (26.31)
5TTX5060A	4	1307.024 (51.435)	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)	668.024 (26.31)



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 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.



Trane - by Trane Technologies (NYSE: TT), a global innovator - creates comfortable, energy efficient indoor environments for commercial and residential applications. For more information, please visit trane.com or tranetechnologies.com.



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

Trane 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.