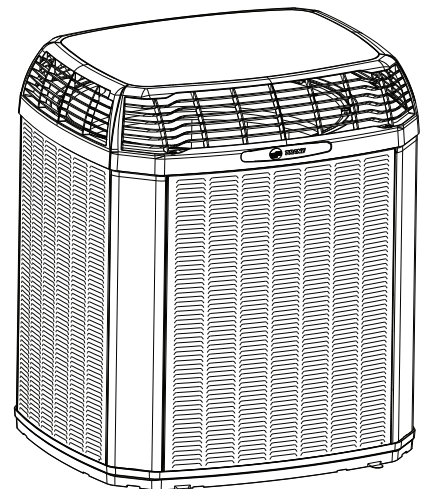# Product Data

Split System Cooling

4TTX5018N1000A
4TTX5024N1000A
4TTX5030N1000A
4TTX5036N1000A
4TTX5042N1000A
4TTX5048N1000A
4TTX5060N1000A

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

Product Specifications

Model No. [a]	4TTX5018N1000A	4TTX5024N1000A	4TTX5030N1000A	4TTX5036N1000A
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	12	13	17	18
BR. CIR. PROT. RTG. – MAX. (AMPS)	20	20	25	30
COMPRESSOR	CLIMATUFF® - SCROLL	CLIMATUFF® - SCROLL	CLIMATUFF® - SCROLL	CLIMATUFF® - SCROLL
RL AMPS – LR AMPS	9 – 47.5	10.1 – 52	12.8 – 67.8	13.6 – 79
Outdoor Fan FL AMPS	0.64	0.64	0.77	0.77
Fan HP	1/8	1/8	1/8	1/8
Fan Dia (inches)	23.02	23.02	23.02	24
Coil	SPINE FIN™	SPINE FIN™	SPINE FIN™	SPINE FIN™
Refrigerant R-410A	4 LBS., 15 OZ	4 LBS., 11 OZ	5 LBS., 8 OZ	6 LBS., 8 OZ
LINE SIZE – IN. O.D. GAS [c]	3/4	3/4	3/4	7/8
LINE SIZE – IN. O.D. LIQ.	3/8	3/8	3/8	3/8
Charge Spec. Subcooling	8°F	8°F	8°F	8°F
Dimensions H x W X D Crated (IN.)	37.9 x 30.1 x 33	37.9 x 30.1 x 33	45.9 x 30.1 x 33	47.6 x 35.1 x 38.7
Weight – Shipping (lbs.)	200	201	231	255
Weight – Net (lbs.)	172	173	195	221
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	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	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] Standard line lengths – 60', Standard lift – 60' 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.

Model No. [a]	4TTX5042N1000A	4TTX5048N1000A	4TTX5060N1000A
POWER CONNS. – V/PH/HZ [b]	208/230/1/60	208/230/1/60	208/230/1/60
MIN. BRCH. CIR. AMPACITY	21	24	28
BR. CIR. PROT. RTG. – MAX. (AMPS)	35	40	50
COMPRESSOR	CLIMATUFF® - SCROLL	CLIMATUFF® - SCROLL	CLIMATUFF® - SCROLL
RL AMPS – LR AMPS	16.7 – 109	18.5 – 124	21.9 – 118.7
Outdoor Fan FL AMPS	0.64	1.05	0.97
Fan HP	1/8	1/5	1/5
Fan Dia (inches)	27.5	27.5	27.5
Coil	SPINE FIN™	SPINE FIN™	SPINE FIN™
Refrigerant R-410A	8 LBS., 2 OZ	10 LBS., 3 OZ	9 LBS., 8 OZ
LINE SIZE – IN. O.D. GAS [c]	7/8	7/8	1–1/8
LINE SIZE – IN. O.D. LIQ.	3/8	3/8	3/8
Charge Spec. Subcooling	8°F	8°F	10°F
Dimensions H x W X D Crated (IN.)	55.6 x 35.1 x 38.7	55.6 x 35.1 x 38.7	55.6 x 35.1 x 38.7
Weight – Shipping (lbs.)	327	331	321
Weight – Net (lbs.)	277	281	286
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	TAYSVPANL0046AA	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] Standard line lengths – 60', Standard lift – 60' 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.

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
4TTX5018N	73	79	69	67	70	70	64	59	53
4TTX5024N	73	79	69	67	70	70	64	59	53
4TTX5030N	73	79	69	67	70	70	64	59	53
4TTX5036N	71	78	72	69	68	66	61	58	53
4TTX5042N	72	81	75	71	70	68	63	58	53
4TTX5048N	72	81	75	71	70	68	63	58	53
4TTX5060N	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.
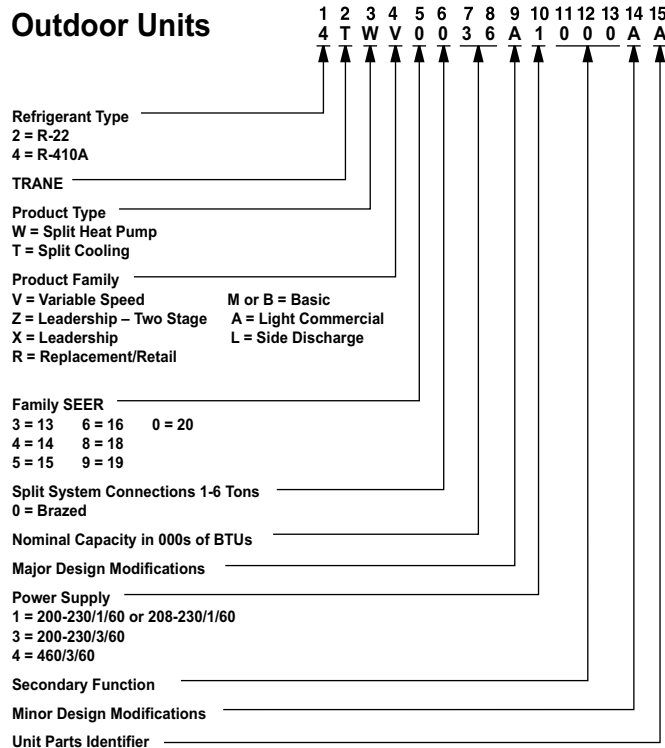
AHRI Standard Capacity Rating Conditions

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 determiend with the unit in cooling operations.) Standard Noise Rating number is at 95°F outdoor air.

Model Nomenclature

Outdoor Units

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
4	T	W	V	0	0	3	6	A	1	0	0	0	A	A

Refrigerant Type
2 = R-22
4 = R-410A

TRANE

Product Type
W = Split Heat Pump
T = Split Cooling

Product Family
V = Variable Speed   M or B = Basic
Z = Leadership – Two Stage   A = Light Commercial
X = Leadership   L = Side Discharge
R = Replacement/Retail

Family SEER
3 = 13   6 = 16   0 = 20
4 = 14   8 = 18
5 = 15   9 = 19

Split System Connections 1-6 Tons
0 = Brazed

Nominal Capacity in 000s of BTUs

Major Design Modifications

Power Supply
1 = 200-230/1/60 or 208-230/1/60
3 = 200-230/3/60
4 = 460/3/60

Secondary Function

Minor Design Modifications

Unit Parts Identifier
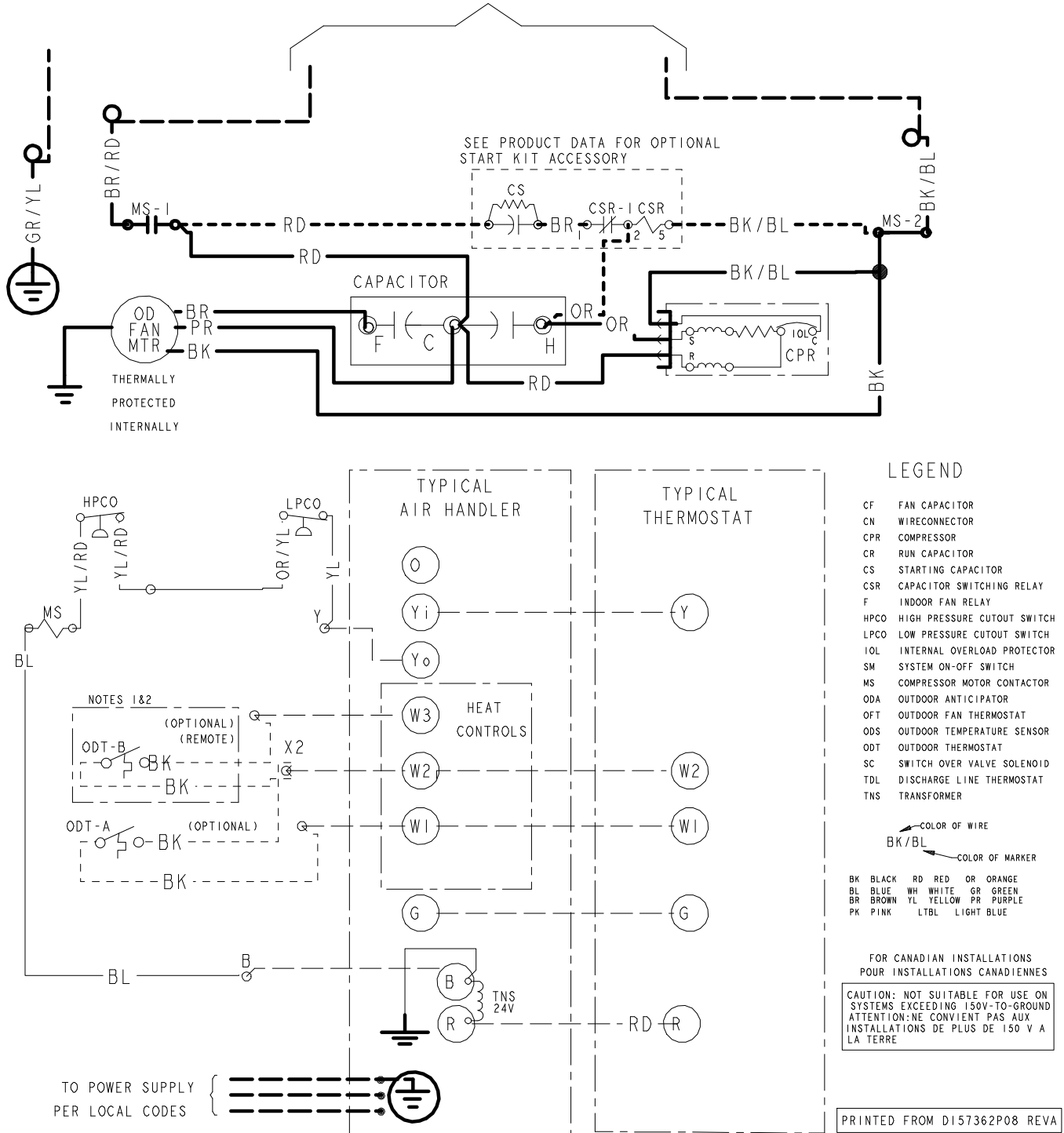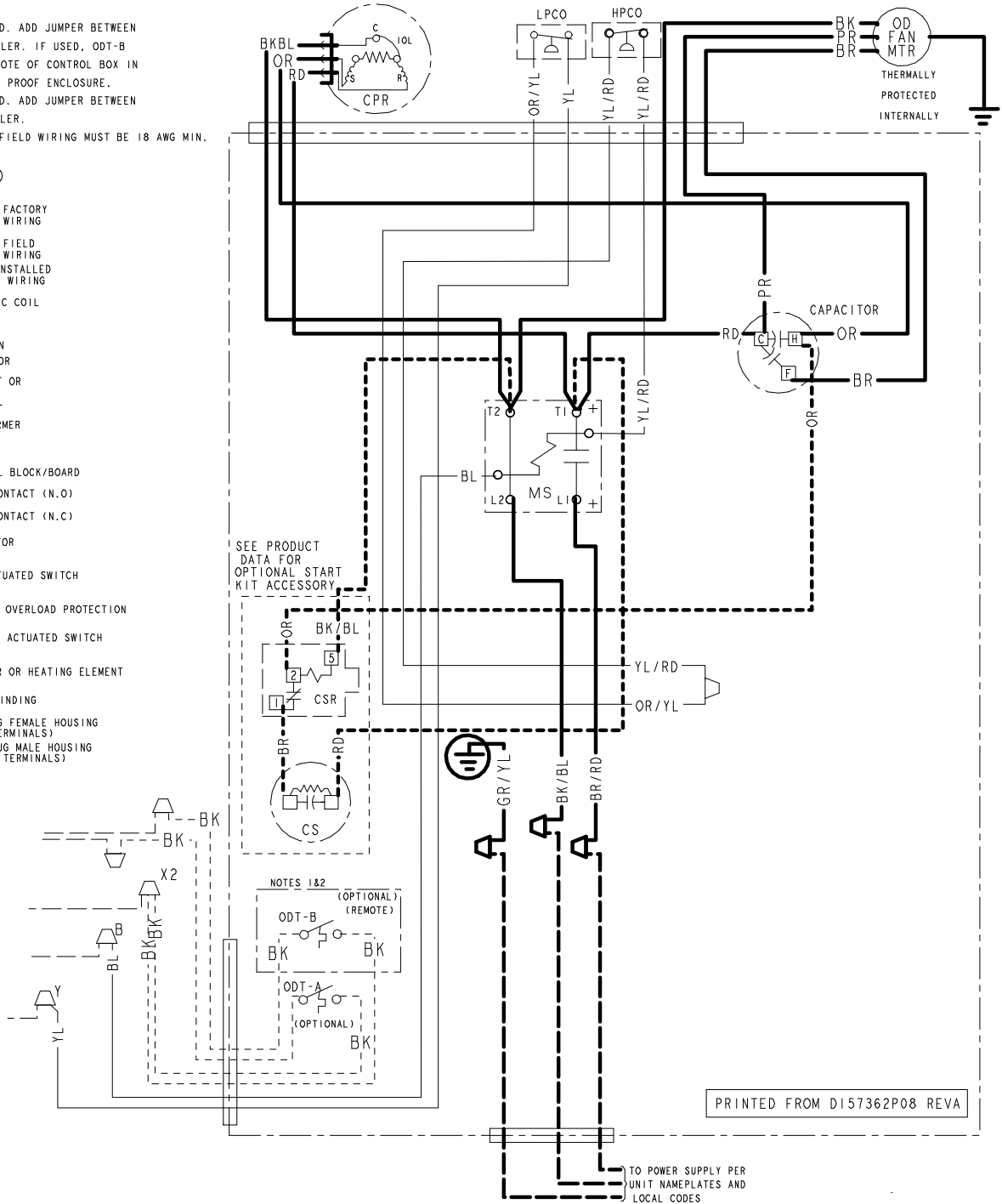
Figure 1.   018N – 048N Models

TRANE®

Figure 2.   018N – 048N 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.
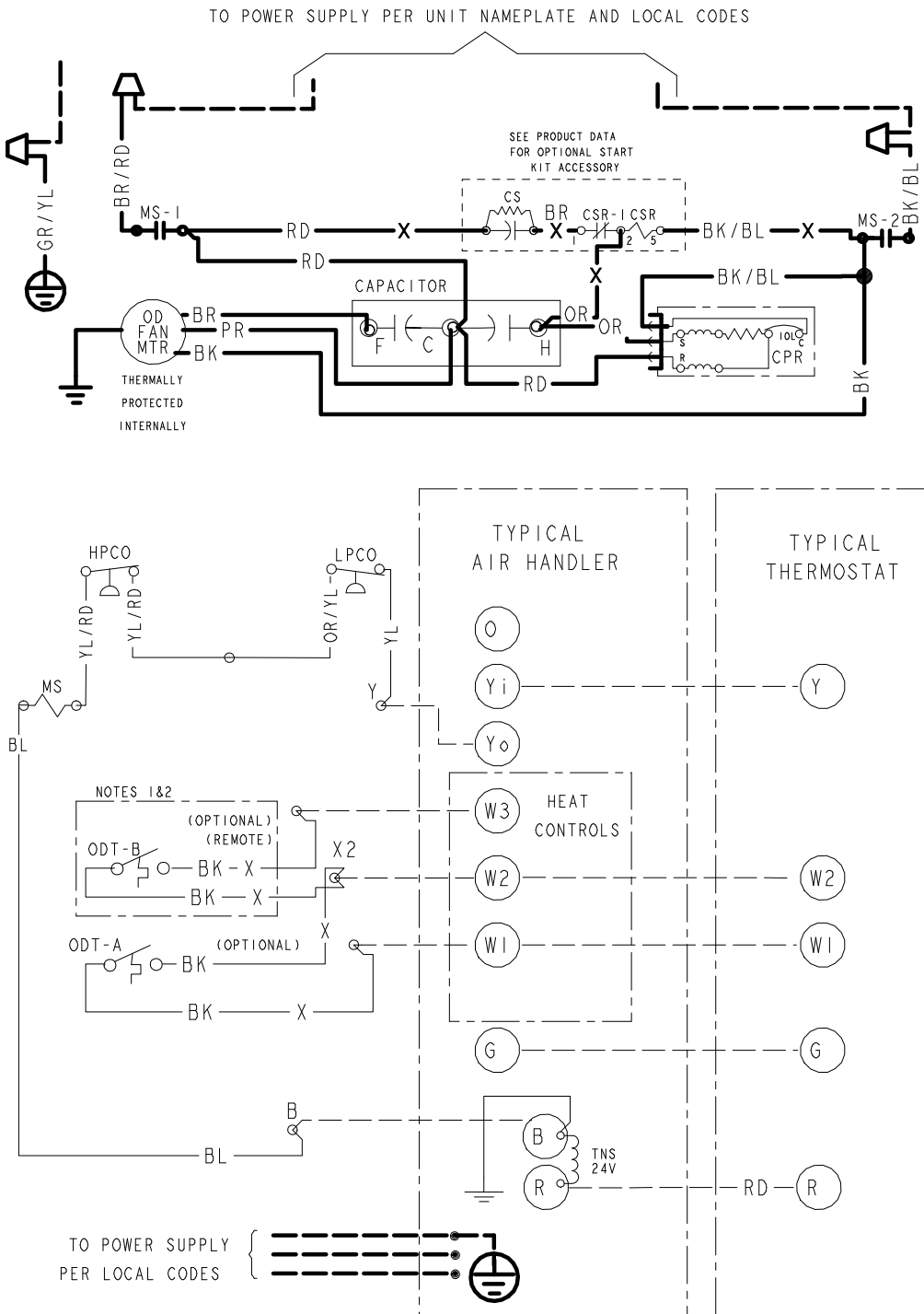3. LOW VOLTAGE (24 V) FIELD WIRING MUST BE 18 AWG MIN.

LEGEND

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

LPCO   HPCO

BK   OD
PR   FAN
BR   MTR
THERMALLY PROTECTED INTERNALLY

BKBL
OR
RD
IOL
C
S   R
CPR

OR/YL   YL   YL/RD   YL/RD

PR

CAPACITOR

RD   C   H   OR

BR

F

T2   T1   +   YL/RD

BL

L2   MS   L1
OR

SEE PRODUCT DATA FOR OPTIONAL START KIT ACCESSORY

OR   BK/BL

5

2

1   CSR

BR   RD

CS

YL/RD

OR/YL

GR/YL   BK/BL   BR/RD

BK

BK

X2

BK BK

B

BL

Y

YL

NOTES 1&2   (OPTIONAL) (REMOTE)
ODT-B
BK   BK
ODT-A
(OPTIONAL)
BK

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TO POWER SUPPLY PER UNIT NAMEPLATES AND LOCAL CODES

Figure 3.   060N Models

TO POWER SUPPLY PER UNIT NAMEPLATE AND LOCAL CODES

SEE PRODUCT DATA
FOR OPTIONAL START
KIT ACCESSORY

BR/RD

GR/YL

MS-1   RD   X   CS   BR   CSR-1CSR   BK/BL   X   MS-2   BK/BL

RD

X   BK/BL

OD FAN MTR   BR   PR   BK

CAPACITOR   F   C   H   OR   OR

IOL   CPR

BK

THERMALLY
PROTECTED
INTERNALLY

RD

TYPICAL
AIR HANDLER

TYPICAL
THERMOSTAT

LEGEND

HPCO
YL/RD

LPCO
OR/YL

MS
BL

O

Yi   ——   Y

Yo

NOTES 1&2

(OPTIONAL)
(REMOTE)

ODT-B   BK – X   X2
BK – X

ODT-A   BK   (OPTIONAL)
BK   X

W3   HEAT
CONTROLS

W2   ——   W2

W1   ——   W1

G   ——   G

B
BL

B
R   TNS 24V   RD   R

TO POWER SUPPLY
PER LOCAL CODES

CF	FAN CAPACITOR
CN	WIRE CONNECTOR
CPR	COMPRESSOR
CR	RUN CAPACITOR
CS	STARTING CAPACITOR
CSR	CAPACITOR SWITCHING RELAY
ODT	OUTDOOR THERMOSTAT
HPCO	HIGH PRESSURE CUTOUT SWITCH
LPCO	LOW PRESSURE CUTOUT 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
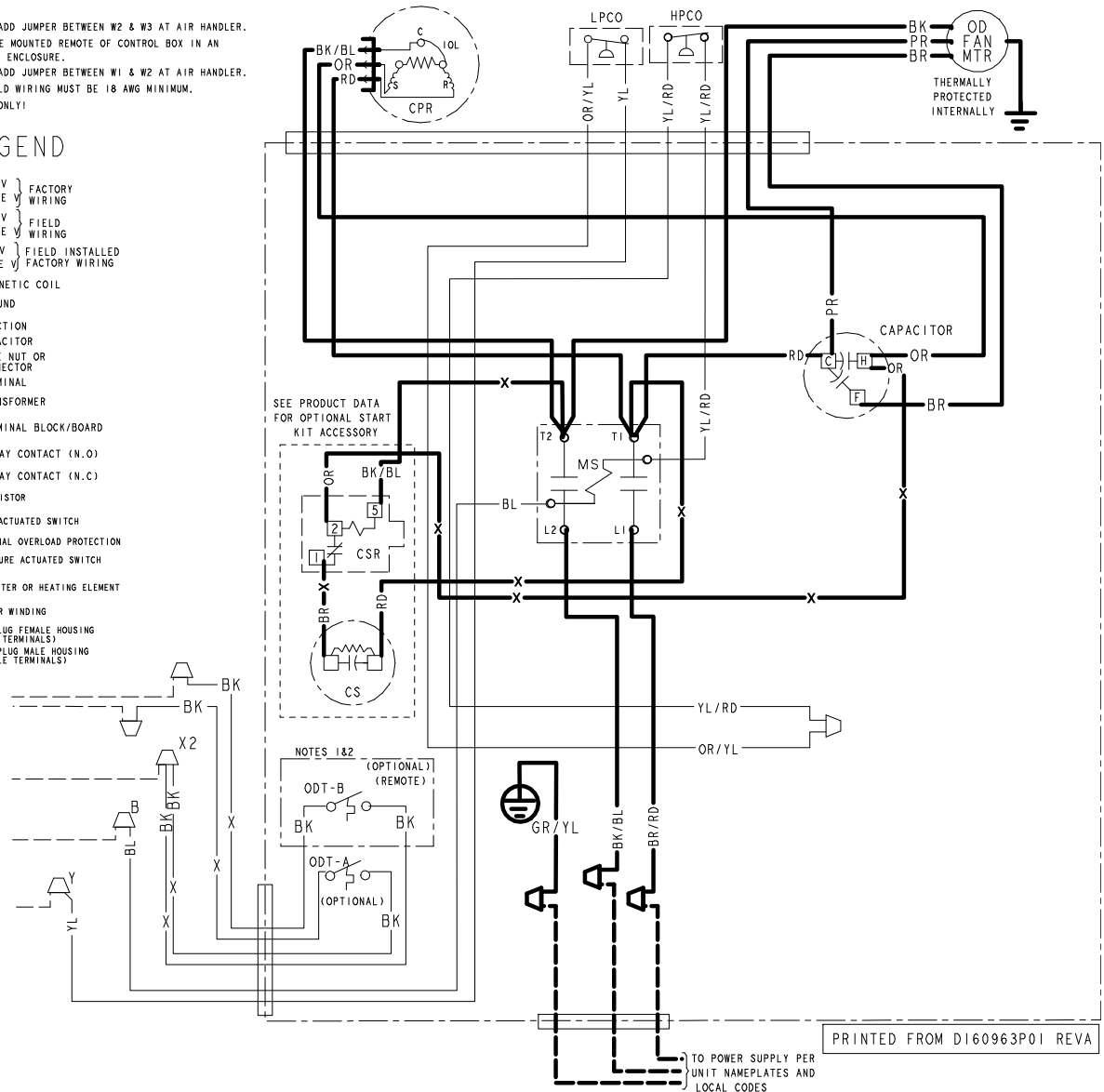INSTALLATIONS DE PLUS DE 150 V A
LA TERRE

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Figure 4. 060N 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.
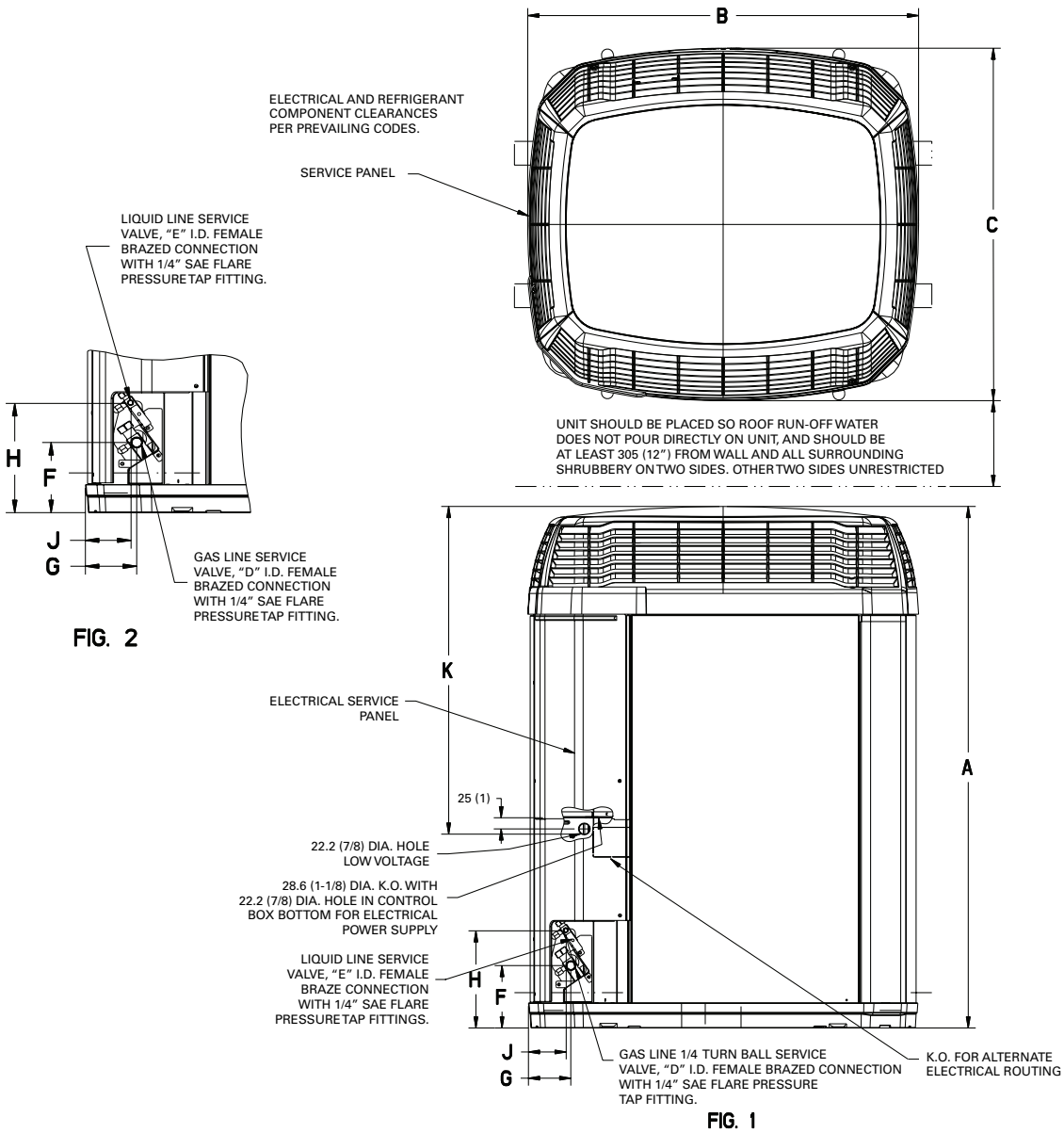4. USE COPPER CONDUCTORS ONLY!

LEGEND

— 24 V } FACTORY LINE V WIRING
-- 24 V } FIELD LINE V WIRING
-X- 24 V } FIELD INSTALLED 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
RESISTER OR HEATING ELEMENT
MOTOR WINDING
POL.PLUG FEMALE HOUSING (MALE TERMINALS)
POL. PLUG MALE HOUSING (FEMALE TERMINALS)

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Outline Drawing

ELECTRICAL AND REFRIGERANT
COMPONENT CLEARANCES
PER PREVAILING CODES.

SERVICE PANEL

LIQUID LINE SERVICE
VALVE, "E" I.D. FEMALE
BRAZED CONNECTION
WITH 1/4" SAE FLARE
PRESSURE TAP FITTING.

GAS LINE SERVICE
VALVE, "D" I.D. FEMALE
BRAZED CONNECTION
WITH 1/4" SAE FLARE
PRESSURE TAP FITTING.

FIG. 2

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

ELECTRICAL SERVICE
PANEL

25 (1)

22.2 (7/8) DIA. HOLE
LOW VOLTAGE

28.6 (1-1/8) DIA. K.O. WITH
22.2 (7/8) DIA. HOLE IN CONTROL
BOX BOTTOM FOR ELECTRICAL
POWER SUPPLY

LIQUID LINE SERVICE
VALVE, "E" I.D. FEMALE
BRAZE CONNECTION
WITH 1/4" SAE FLARE
PRESSURE TAP FITTINGS.

GAS LINE 1/4 TURN BALL SERVICE
VALVE, "D" I.D. FEMALE BRAZED CONNECTION
WITH 1/4" SAE FLARE PRESSURE
TAP FITTING.

K.O. FOR ALTERNATE
ELECTRICAL ROUTING

FIG. 1

Model	Base	A	B	C	D	E	F	G	H	J	K
4TTX5018N	2	892.106 (35.14)	829 (32-5/8)	756 (29-3/4)	3/4	3/8	143 (5-5/8)	92 (3-5/8)	210 (8-1/4)	79 (3-1/8)	467.106 (18.39)
4TTX5024N	2	892.106 (35.14)	829 (32-5/8)	756 (29-3/4)	3/4	3/8	143 (5-5/8)	92 (3-5/8)	210 (8-1/4)	79 (3-1/8)	467.106 (18.39)
4TTX5030N	3	1077.106 (42.39)	829 (32-5/8)	756 (29-3/4)	3/4	3/8	143 (5-5/8)	92 (3-5/8)	210 (8-1/4)	79 (3-1/8)	467.106 (18.39)
4TTX5036N	4	1103.02 (43.435)	946 (37-1/4)	870 (34-1/4)	3/4	3/8	152 (6)	98 (3-7/8)	219 (8-5/8)	86 (3-3/8)	668.024 (26.31)
4TTX5042N	4	1307.024 (51.435)	946 (37-1/4)	870 (34-1/4)	7/8	3/8	152 (6)	98 (3-7/8)	219 (8-5/8)	86 (3-3/8)	668.024 (26.31)
4TTX5048N	4	1307.024 (51.435)	946 (37-1/4)	870 (34-1/4)	7/8	3/8	152 (6)	98 (3-7/8)	219 (8-5/8)	86 (3-3/8)	668.024 (26.31)
4TTX5060N	4	1307.024 (51.435)	946 (37-1/4)	870 (34-1/4)	7/8	3/8	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 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.

TRANE®

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AHRI CERTIFIED®
www.ahridirectory.org
Unitary Small AC
AHRI Standard 210/240
Certification applies only when the complete system is listed with AHRI.

c (UL) US
LISTED