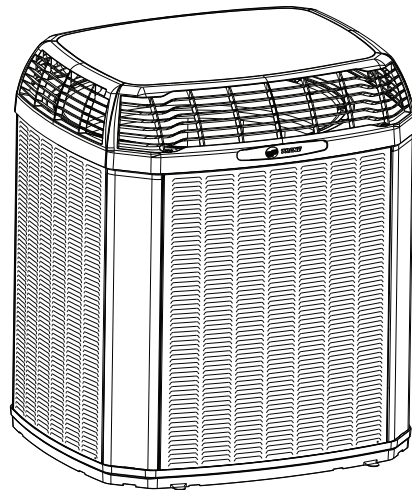




Product Data

TRANE Link or ComfortLink™ II Variable Speed Air Conditioners

4TTV0X24A1000A
4TTV0X36A1000A
4TTV0X48A1000A
4TTV0X60A1000A
4TTV0X61A1000A



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



Mechanical Specification Options

General

This unit is designed to operate at outdoor ambient temperatures from 55° F to 120° F in cooling. From -10° F to 66° F in heating (heat pumps only). Only AHRI approved indoor matches are approved for use with these models.

TRANE Link or ComfortLink™ II Air Conditioners

This outdoor unit contains the TRANE Link or ComfortLink™ II Air Conditioners digital communication with 2 wire connection to outdoor and Plug-n-Play set up.

Casing

Unit casing is constructed of heavy gauge, G60 galvanized steel and painted with a weather-resistant powder paint on all louvered panels and prepaint on all other panels. Corrosion and weatherproof CMBP-G30 DuraTuff™ base.

WeatherGuard™ II Top Shields Unit.

Refrigerant Controls

Refrigeration system controls include condenser fan, compressor contactor and high and low pressure switches. A factory supplied, field installed filter is standard.

Compressor

Inverter driven scroll compressor with 25 to 100% output capacity on heat pumps and 30 to 100% output capacity on air conditioners. Noise enclosure minimizes sound levels and built in compressor protection protects compressor will reduce operating speed and current draw to maintain operation while protecting the compressor.

Condenser Coil

The Spine Fin™ outdoor coil provides low airflow resistance and efficient heat transfer. The coil is protected on all four sides by louvered panels.

SeaCoast Shield.

Low Ambient Cooling

As manufactured, this system has built in freeze protection that will allow cooling operation below 55°F but will reduce capacity or shut down completely to prevent operation under adverse conditions.

Comfort Control

The 1050/950/850 Control is required and provides Plug-n-Play setup and 3 wire connection.



Product Specifications

Air Conditioner Models

OUTDOOR UNIT ^{(a) (b)}	4TTV0X24A1000A	4TTV0X36A1000A	4TTV0X48A1000A
POWER CONNS. — V/PH/HZ ^(c)	208/230/1/60	208/230/1/60	208/230/1/60
MIN. BRCH. CIR. AMPACITY	17.0	18.0	23.0
BR. CIR. PROT. RTG. — MAX. (AMPS)	25	25	35
COMPRESSOR	SCROLL	SCROLL	SCROLL
NO. USED — NO. SPEEDS	1-VARIABLE	1-VARIABLE	1-VARIABLE
R.L. AMPS ^(d) — L.R. AMPS	11.5 — 10.2	12.4 — 10.2	16.0 — 12.0
FACTORY INSTALLED			
START COMPONENTS ^(e)	NA	NA	NA
INSULATION/SOUND BLANKET	YES	YES	YES
COMPRESSOR HEAT	YES	YES	YES
OUTDOOR FAN			
DIA. (IN.) — NO. USED	23 — 1	23 — 1	27.5 — 1
TYPE DRIVE — NO. SPEEDS	DIRECT — VARIABLE	DIRECT — VARIABLE	DIRECT — VARIABLE
CFM @ 0.0 IN. W.G. ^(f)	2680	2850	4560
NO. MOTORS — HP	1 — 1/3	1 — 1/3	1 — 1/3
MOTOR SPEED R.P.M.	200 — 1200	200 — 1200	200 — 1200
VOLTS/PH/HZ	208/230/1/60	208/230/1/60	208/230/1/60
F.L. AMPS	2.8	2.8	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.)	19.77	23.75	27.87
TUBE SIZE (IN.)	3/8	3/8	3/8
REFRIGERANT	R410-A	R410-A	R410-A
LBS. — R-410A (O.D. UNIT) ^(g)	7 lb — 6 oz	10 lb — 0 oz	11 lb — 9 oz
FACTORY SUPPLIED	YES	YES	YES
RATED LINE SIZE — IN. O.D. GAS	5/8 ^(h)	3/4 ^(h)	7/8 ^(h)
RATED LINE SIZE — IN. O.D. LIQ. ^(h)	3/8	3/8	3/8
CHARGING SPECIFICATIONS			
SUBCOOLING	10°	10°	10°
DIMENSIONS	H X W X D	H X W X D	H X W X D
CRATED (IN.)	50 X 30.1 X 33	51 X 35.1 X 38.7	51 X 35.1 X 38.7
WEIGHT			
SHIPPING (LBS.)	228	263	285
NET (LBS.)	207	239	259

^(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 270/275.

^(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) NA means no start components. Yes means quick start kit components. PTC means positive temperature coefficient starter.

^(f) Standard Air — Dry Coil — Outdoor

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

^(h) Max. linear length 150 ft.; Max. lift — Suction 50 ft.; Max. lift — Liquid 50 ft.



Product Specifications

Air Conditioner Models

OUTDOOR UNIT ^{(a) (b)}	4TTV0X60A1000A	4TTV0X61A1000A
POWER CONNS. — V/PH/HZ ^(c)	208/230/1/60	208/230/1/60
MIN. BRCH. CIR. AMPACITY	27.0	27.0
BR. CIR. PROT. RTG. — MAX. (AMPS)	40	40
COMPRESSOR	SCROLL	SCROLL
NO. USED — NO. SPEEDS	1-VARIABLE	1-VARIABLE
R.L. AMPS ^(d) — L.R. AMPS	19.3 — 12.0	19.3 — 12.0
FACTORY INSTALLED		
START COMPONENTS ^(e)	NA	NA
INSULATION/SOUND BLANKET	YES	YES
COMPRESSOR HEAT	YES	YES
OUTDOOR FAN		
DIA. (IN.) — NO. USED	27.5 — 1	27.5 — 1
TYPE DRIVE — NO. SPEEDS	DIRECT — VARIABLE	DIRECT — VARIABLE
CFM @ 0.0 IN. W.G. ^(f)	4787	4780
NO. MOTORS — HP	1 — 1/3	1 — 1/3
MOTOR SPEED R.P.M.	200 — 1200	200 — 1200
VOLTS/PH/HZ	208/230/1/60	208/230/1/60
F.L. AMPS	2.8	2.8
OUTDOOR COIL — TYPE	SPINE FIN™	SPINE FIN™
ROWS — F.P.I.	1 — 24	2 — 24
FACE AREA (SQ. FT.)	30.80	30.80
TUBE SIZE (IN.)	3/8	3/8
REFRIGERANT	R410-A	R410-A
LBS. — R-410A (O.D. UNIT) ^(g)	12 lb — 12 oz	13 lb — 10 oz
FACTORY SUPPLIED	YES	YES
RATED LINE SIZE — IN. O.D. GAS	1-1/8 ^(h)	1-1/8 ^(h)
RATED LINE SIZE — IN. O.D. LIQ. ⁽ⁱ⁾	3/8	3/8
CHARGING SPECIFICATIONS		
SUBCOOLING	10°	7.5°
DIMENSIONS	H X W X D	H X W X D
CRATED (IN.)	55 X 35.1 X 38.7	55 X 35.1 X 38.7
WEIGHT		
SHIPPING (LBS.)	299	329
NET (LBS.)	273	303

^(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 270/275.

^(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) NA means no start components. Yes means quick start kit components. PTC means positive temperature coefficient starter.

^(f) Standard Air — Dry Coil — Outdoor

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

^(h) Max length of refrigerant lines from outdoor to indoor unit MUST NOT exceed 80 feet. The max vertical change MUST NOT exceed 25 feet. See footnote (i) if 7/8" suction line is used.

⁽ⁱ⁾ Max. linear length 150 ft.; Max. lift — Suction 50 ft.; Max. lift — Liquid 50 ft.



Sound Data

Model	Mode	Speed	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
4TTV0X24A	Cool	Min	57	71.2	49.8	51.4	58.3	51.6	44.2	37.4	41.2
	Cool	Max	66	74.8	64.1	61.3	66.2	61.2	56.3	49.4	46.5
4TTV0X36A	Cool	Min	59	69.3	56.0	54.8	54.5	56.8	46.6	38.0	39.0
	Cool	Max	70	79.7	70.2	68.5	66.3	65.8	63.2	56.9	51.4
4TTV0X48A	Cool	Min	57	70.7	52.5	51.7	55.3	53.4	43.6	35.1	41.6
	Cool	Max	74	75.5	73.6	72.0	72.8	68.7	63.9	58.3	52.1
4TTV0X60A	Cool	Min	62	71.7	55.8	56.8	56.7	60.1	44.7	42.3	41.0
	Cool	Max	75	87.8	77.6	75.2	72.2	70.2	64.7	59.0	51.1
4TTV0X61A	Cool	Min	62	71.7	55.8	56.8	56.7	60.1	44.7	42.3	41.0
	Cool	Max	75	87.8	77.6	75.2	72.2	70.2	64.7	59.0	51.1

NOTE: Rated in accordance with AHRI Standard 270

Model	Mode	Speed	Sound Pressure in dBA			
			at 3'	at 5'	at 10'	at 15'
4TTV0X24A	Cool	Min	50	45	39	36
	Cool	Max	59	54	48	45
4TTV0X36A	Cool	Min	52	47	41	38
	Cool	Max	63	58	52	49
4TTV0X48A	Cool	Min	55	50	44	41
	Cool	Max	68	63	57	54
4TTV0X60A	Cool	Min	55	50	44	41
	Cool	Max	68	63	57	54
4TTV0X61A	Cool	Min	55	50	44	41
	Cool	Max	68	63	57	54

NOTE: Rated in accordance with AHRI Standard 275



Optional Accessories:

Model	4TTV0X24A	4TTV0X36A	4TTV0X48A	4TTV0X60A	4TTV0X61A
Rubber Isolator Kit	BAYISLT101	BAYISLT101	BAYISLT101	BAYISLT101	BAYISLT101
Snow Leg — Base & Cap 4" High	BAYLEGS002	BAYLEG2002	BAYLEGS002	BAYLEGS002	BAYLEGS002
Snow Leg — 4" Extension	BAYLEGS003	BAYLEGS003	BAYLEGS003	BAYLEGS003	BAYLEGS003
Extreme Condition Mounting Kit	BAYECMT023	BAYECMT004	BAYECMT004	BAYECMT004	BAYECMT004
Vertical Discharge Air Kit	BAYVDTA003	BAYVDTA004	BAYVDTA004	BAYVDTA004	BAYVDTA004
Refrigerant Lineset ^(a)					

^(a) 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.

General Data

AHRI STANDARD 210/240 RATING CONDITIONS

- Cooling 80°F DB, 67°F WB air entering indoor coil, 95°F DB air entering outdoor coil.
- High Temperature Heating 47°F DB, 43°F WB air entering outdoor coil, 70°F DB entering indoor coil.
- Low Temperature Heating 17°F DB, 15°F WB air entering outdoor coil, 70°F DB air entering indoor coil.
- 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 operation) 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
 - Z = Leadership - Two Stage
 - X = Leadership
 - R = Replacement/Retail
- M or B = Basic
- A = Light Commercial
- 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

Air Handler

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

- Brand
 - T = Trane
 - G = Good (Trane Branded)
- Product Type
 - A = Air Handler
- Convertability
 - M = Multi-poise 4-way
 - F = Upflow Front Return, 3-way
 - T = 3-way
- Product Tier
 - 2 = Good, Entry Level Feature Set
 - 4 = Better, Retail Replacement Mid Effy
 - 5 = Better, Entry Level High Effy, Multi-Speed
 - 7 = Best, Retail Replacement High Effy
 - 8 = Best, Retail Ultimate High Effy Variable-Speed
- Major Design Change
- No Descriptor
 - 0 = Air Handler / Coil
- Size (Footprint)
 - A = 17.5 x 21.5
 - B = 21.0 x 21.5
 - C = 23.5 x 21.5
- Cooling Size: Air Handler or Coil
 - 0-9 = AH Coil - 1000 BTUs (18, 24, 30, 36, 42, 48, 60)
- Airflow Type & Capability
 - S = Low Effy PSC, 1-5 - nom. Tonnage (cfm/ton)
 - M = Mid Effy Multi-Speed, 1-5 - nom. Tonnage (cfm/ton)
 - H = High Effy Multi-Speed, 1-5 - nom. Tonnage (cfm/ton)
 - V = High Effy Variable, 1-5 - nom. Tonnage (cfm/ton)
- Power Supply
 - 1 = 208-230/1/60
- System Control Type
 - S = Standard - 24VAC
 - C = CLII 13.8 VDC
- Minor Design Change
- Unit Parts Identifier

Gas Furnaces

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
 T U H 1 B 0 8 0 A C V 3 V A A

- Furnace Configuration
 - TU = Upflow/Horizontal
 - TD = Downflow/Horizontal
- Type
 - E = 80% Induced Draft Standard
 - D = 80% Induced Draft Premium
 - C = 90% Condensing Standard
 - X = 90% Condensing Premium
 - H = 95% Condensing Premium
- Number of Heating Stages
 - 1 = Single Stage
 - 2 = Two Stage
 - 3 = Three Stage
 - M = Modulating
- Cabinet Width
 - A = 14.5" CabinetWidth
 - B = 17.5" CabinetWidth
 - C = 21.0" CabinetWidth
 - D = 24.5" CabinetWidth
- Heating Input in 1000's (BTUH)
 - 080 = 80,000 BTUH
- Major Design Change
- Voltage
 - 9 = 115 Volts / 60 Hertz / Natural Gas
 - A = 115 Volts / 50 Hertz / Natural Gas
 - C = 115 Volts / Natural Gas with Communicating System Control
 - F = 115 Volts / Natural Gas with Integrated Electronic Filter
 - D = 115 Volts / Natural Gas with Communicating System Control and Integrated Electronic Filter
- Air Capacity for Cooling

Standard PSC	Variable Speed	High Efficiency
24 = 2 Tons	V3 = 3 Tons	H3 = 3 Tons
36 = 3 Tons	V4 = 4 Tons	H4 = 4 Tons
42 = 3.5 Tons	V5 = 5 Tons	H5 = 5 Tons
45 = 4 Tons		
48 = 4 Tons		
54 = 5 Tons		
60 = 5 Tons		
72 = 6 Tons		
- Draft Inducer Speeds
 - 1 = Single Speed
 - 2 = Two Speed
 - V = Variable Speed
- Minor Design Change
- Service Digit - Not Orderable

Heat Pump/Cooling Coils

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
 4 T X C B 0 3 6 A C 3 H C A A

- Refrigerant Type
 - 4 = R-410A
- Series
 - T = Premium (Heat Pump)
 - N = Premium (Convertible to HP)
 - C = Standard
- Coil Design
 - X = Direct Expansion Evaporator Coil
- Coil Feature
 - C = Cased A Coil
 - A = Uncased A Coil
 - F = Cased Horizontal Flat Coil
- Coil Width (Cased/Uncased)
 - A = 14.5" / 13.3"
 - B = 17.5" / 16.3"
 - C = 21.0" / 19.8"
 - D = 24.5" / 23.3"
 - H = 10.5"
- Refrigerant Line Coupling
 - 0 = Brazed
- Nominal Capacity in 1000's (BTUH)
- Major Design Change
- Efficiency
 - C = Standard
 - S = Hi Efficiency (derived from 10 SEER products)
- Refrigerant Control
 - 3 = TXV - Non-Blend
- Coil Circuitry
 - H = Heat Pump
 - C = Cooling
- Airflow Configuration
 - A = Upflow Only
 - U = Upflow/Downflow
 - H = Horizontal Only
 - C = Convertible - Upflow Downflow Left or Right Airflow
- Minor Design Change
- Service Digit - Not Orderable

Wiring

LEGEND

- 24 V FACTORY WIRING (MALE TERMINALS)
- 24 V FIELD WIRING (MALE TERMINALS)
- 24 V FACTORY WIRING (FEMALE TERMINALS)
- 24 V FIELD WIRING (FEMALE TERMINALS)
- MAGNETIC COIL
- EARTH GROUND
- CHASSIS EARTH GROUND
- JUNCTION
- WIRE NUT OR TERMINAL
- THERMISTOR
- INTERNAL OVERLOAD PROTECTION
- PRESSURE ACTIVATED SWITCH
- RESISTOR OR HEATING ELEMENT
- MOTOR WINDING
- SHIELDED CABLE
- 24 V - 24 VOLT POWER SUPPLY ASSEMBLY
- CAN - CAN COMM DISPLAY ASSEMBLY
- VC - VARIABLE SPEED COMPRESSOR
- HP - HIGH PRESSURE CUTOUT SWITCH
- OR - OUTDOOR TEMPERATURE SENSOR
- SC - Suction COIL
- ST - Suction TEMPERATURE SENSOR
- FC - FUSE WITH NOMINATED COMM
- CL - COMMUNICATION LINK
- CS - CAPACITOR
- LS - LOAD SHEET
- LP - LIQUID PRESSURE TRANSDUCER
- LT - LIQUID TEMPERATURE SENSOR

NOTES:

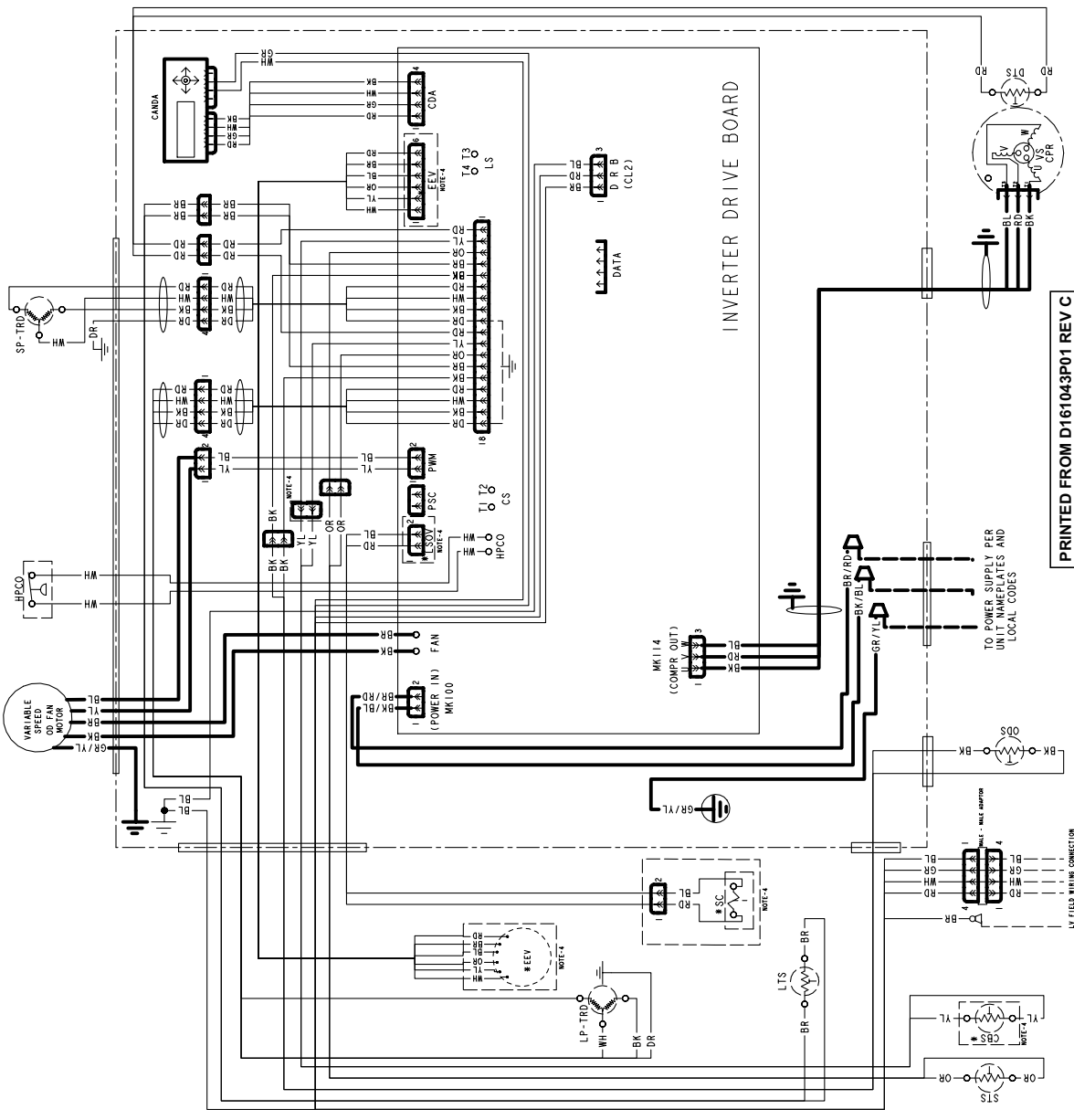
1. BE SURE POWER SUPPLY AGREES WITH EQUIPMENT NAMEPLATE.
2. POWER WIRING AND GROUNDING OF EQUIPMENT MUST COMPLY WITH LOCAL CODES.
3. LOW VOLTAGE WIRING TO BE NO. 18 AWG MINIMUM CONDUCTOR.
4. * ONLY USED ON HEAT PUMP MODELS AND NOT ON AC UNITS.
5. BR WIRE ONLY USED WITH CL-2, INCLUDING THE RD AND BL FROM FIELD WIRING CONNECTION.

CONTAINS BLE MODULE FCC ID: W92925 IC: T922A-3925
 THIS DEVICE COMPLIES WITH PART 15 OF THE FCC RULES AND WITH RSS-210 OF INDUSTRY OF CANADA. OPERATION IS SUBJECT TO THE FOLLOWING TWO CONDITIONS:
 (1) THIS DEVICE MUST NOT CAUSE HARMFUL INTERFERENCE.
 (2) THIS DEVICE MUST ACCEPT ANY INTERFERENCE RECEIVED, INCLUDING INTERFERENCE THAT MAY CAUSE UNDESIRABLE OPERATION.

FOR CANADIAN INSTALLATIONS
 FOUR INSTALLATION CONDITIONS
 CAUTION: NOT SUITABLE FOR USE ON
 SYSTEMS WITH A DIFFERENTIAL AND
 INTERLOCKING CIRCUIT FUSE AND
 INSTALLATIONS BE FUSE BE 150 V A
 LA TERCER

WARNING
 HAZARDOUS VOLTAGE!
 DISCONNECT ALL POWER
 INCLUDING REMOTE DISCONNECTS
 BEFORE ATTEMPTING TO SERVICE
 THIS UNIT TO PREVENT PERSONAL INJURY OR DEATH.

CAUTION
 USE CORRECT CONNECTIONS ONLY!
 TO ACCEPT OTHER TYPES OF CONNECTIONS,
 CONTACT TRANE FOR MORE INFO.
 LA 18-19-10-0001
 FCC LABEL - SEE NOTE



INVERTER DRIVE BOARD

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NOTE 5
 U3 FIELD WIRING CONNECTION



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