



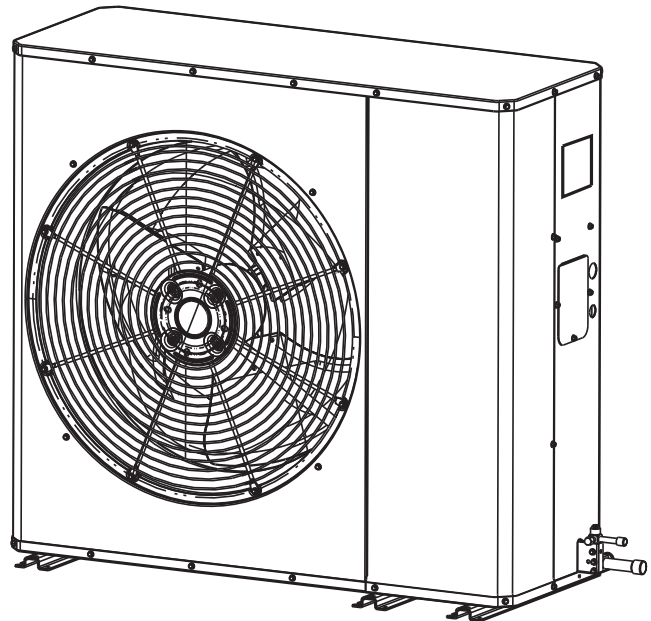
Product Data

Side Discharge HP Models

For coastal applications where units are installed within one (1) mile of salt water, epoxy coated models are recommended. These models have an 8 week lead time after order.

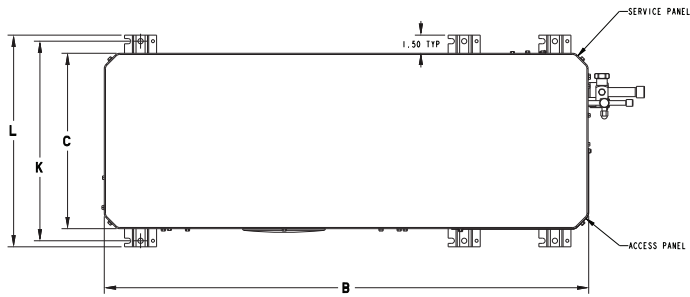
Epoxy Coated Model

4TWS6036A3000A	4TWS6036A3COTA
4TWS6048A3000A	4TWS6048A3COTA
4TWS6060A3000A	4TWS6060A3COTA
4TWS6036A4000A	4TWS6036A4COTA
4TWS6048A4000A	4TWS6048A4COTA
4TWS6060A4000A	4TWS6060A4COTA

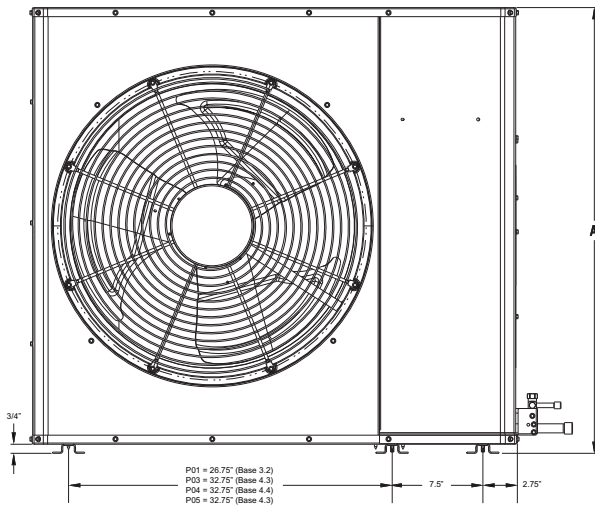


Note: "Graphics in this document are for representation only. Actual model may differ in appearance."

Outline Drawing



▲ SHOULD BE AT LEAST 152.4 (6 INCHES) FROM WALL AND 609.6 (2 FEET) FROM SURROUNDING SHRUBBERY ON ALL SIDES.



P01 = 26.75" (Base 3.2)
 P03 = 32.75" (Base 4.3)
 P04 = 32.75" (Base 4.4)
 P05 = 32.75" (Base 4.3)

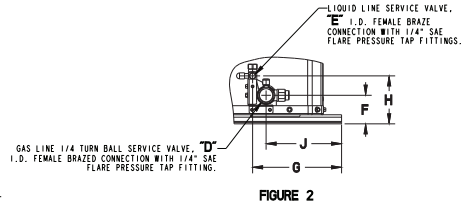


FIGURE 2

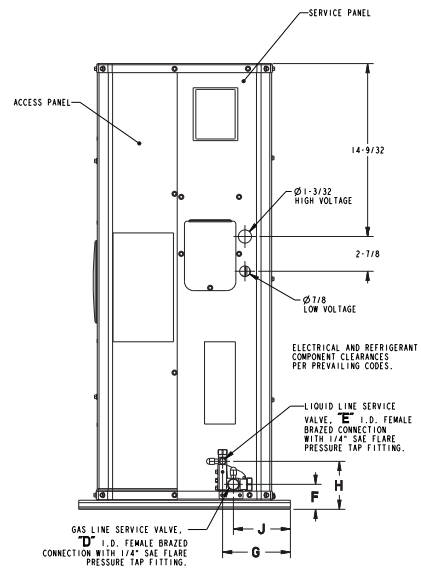


FIGURE 1

DWG. D159818_Rev D

Model	Base	A	B	C	D	E	F	G	H	J	K	L
4TWS6036A	4.3	934 (36-3/4)	1194 (47)	445 (17-1/2)	22 (7/8)	10 (3/8)	53 (2-1/16)	187 (7-11/32)	101 (3-31/32)	159 (6-1/4)	495 (19-1/2)	520 (20-1/2)
4TWS6048A	4.4	1086 (42-3/4)	1194 (47)	445 (17-1/2)	22 (7/8)	10 (3/8)	60 (2-3/8)	187 (7-11/32)	101 (3-31/32)	159 (6-1/4)	495 (19-1/2)	520 (20-1/2)
4TWS6060A	4.4	1086 (42-3/4)	1194 (47)	445 (17-1/2)	22 (7/8)	10 (3/8)	60 (2-3/8)	187 (7-11/32)	101 (3-31/32)	159 (6-1/4)	495 (19-1/2)	520 (20-1/2)



Sound Power Level Table

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
4TWS6036A	72	75	75	75	70	66	61	57	49
4TWS6048A	75	73	79	77	72	70	63	57	50
4TWS6060A	75	77	78	77	71	69	66	60	57

Note: Tested in accordance with AHRI Standard 270

MODEL	Sound Pressure [dB(A)]			
	3 ft	5 ft	10 ft	15 ft
4TWS6036A	65	60	54	51
4TWS6048A	68	63	57	54
4TWS6060A	68	63	57	54

Note: Tested in accordance with AHRI Standard 275



Product Specifications

OUTDOOR UNIT ^(a)	4TWS6036A3XXXA	4TWS6048A3XXXA	4TWS6060A3XXXA
POWER CONNS. — V/PH/HZ ^(b)	208–230/3/60	208–230/3/60	208–230/3/60
MIN. BRCH. CIR. AMPACITY	11.3	18.2	15.8
BR. CIR. PROT. RTG. — MAX. (AMPS)	15	30	25
COMPRESSOR	CLIMATUFF®- SCROLL	CLIMATUFF®- SCROLL	CLIMATUFF®- SCROLL
R.L. AMPS — L.R. AMPS	8.5 — 70	13.7 — 83.1	11.6 — 93
OUTDOOR FAN	PROPELLER	PROPELLER	PROPELLER
DIA. (IN.)	27.5	27.5	27.5
NO. MOTORS — HP	1 — 1/8	1 — 1/5	1 — 1/4
F.L. AMPS	0.64	1.05	1.3
OUTDOOR COIL — TYPE	PLATE FIN	PLATE FIN	PLATE FIN
REFRIGERANT	6 LBS, 13 OZ	8 LBS, 5 OZ.	9 LBS, 0 OZ.
LINE SIZE — IN. O.D. GAS ^(c)	7/8	7/8	7/8
LINE SIZE — IN. O.D. LIQ. ^(c)	3/8	3/8	3/8
CHARGING SPECIFICATIONS			
SUBCOOLING	8°F	8°F	10°F
DIMENSIONS	H X W X D	H X W X D	H X W X D
CRATED (IN.)	40.88 X 54.5 X 23.0	46.88 X 54.5 X 23.0	46.88 X 54.5 X 23.0
WEIGHT			
SHIPPING (LBS.)	225	266	267
NET (LBS.)	198	239	240
OPTIONAL ACCESSORIES			
Evaporator Defrost Control	AY28X079	AY28X079	AY28X079
Rubber Isolator Kit	BAYISLT101	BAYISLT101	BAYISLT101
Start Kit	BAYKSKT263	BAYKSKT263	BAYKSKT263
Crankcase Heater Kit	BAYCCHT302RES	BAYCCHT302RES	BAYCCHT302RES
Snow Leg Kit 4"	BAYLEGS004	BAYLEGS004	BAYLEGS004
Snow Leg Kit 7"	BAYLEGS007	BAYLEGS007	BAYLEGS007
Scroll Compressor Enclosure	BAYSDEN003	BAYSDEN003	BAYSDEN003
Low Ambient Kit	BAYLOAM107A	BAYLOAM107A	BAYLOAM107A
Wall Mount Kit ^(d)	BRK05033	BRK05033	BRK05033
Wind Baffle Kit	BAYWIND101	BAYWIND100	BAYWIND100
Refrigerant Lineset ^(e)			
Evaporator Defrost Control	AY28X079	AY28X079	AY28X079

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

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

^(c) Standard line lengths — 150', Standard lift — 50' Suction and Liquid line. For Greater lengths and lifts refer to refrigerant piping software Pub#32–3312–0* (* denotes latest revision).

^(d) Available from Trane Parts

^(e) 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.

Product Specifications

OUTDOOR UNIT ^(a)	4TWS6036A4XXXA	4TWS6048A4XXXA	4TWS6060A4XXXA
POWER CONNS. — V/PH/HZ ^(b)	460/3/60	460/3/60	460/3/60
MIN. BRCH. CIR. AMPACITY	5.2	8.4	8.7
BR. CIR. PROT. RTG. — MAX. (AMPS)	15	15	15
COMPRESSOR	CLIMATUFF®- SCROLL	CLIMATUFF®- SCROLL	CLIMATUFF®- SCROLL
R.L. AMPS — L.R. AMPS	3.9 — 31	6.22 — 41	6.4 — 60
OUTDOOR FAN	PROPELLER	PROPELLER	PROPELLER
DIA. (IN.)	27.5	27.5	27.5
NO. MOTORS — HP	1 — 1/8	1 — 1/5	1 — 1/4
F.L. AMPS	0.38	0.6	0.72
OUTDOOR COIL — TYPE	PLATE FIN	PLATE FIN	PLATE FIN
REFRIGERANT	6 LBS, 13 OZ	8 LBS, 5 OZ.	9 LBS, 0 OZ.
LINE SIZE — IN. O.D. GAS ^(c)	7/8	7/8	7/8
LINE SIZE — IN. O.D. LIQ. ^(c)	3/8	3/8	3/8
CHARGING SPECIFICATIONS			
SUBCOOLING	8°F	8°F	10°F
DIMENSIONS	H X W X D	H X W X D	H X W X D
CRATED (IN.)	40.88 X 54.5 X 23.0	46.88 X 54.5 X 23.0	46.88 X 54.5 X 23.0
WEIGHT			
SHIPPING (LBS.)	225	266	267
NET (LBS.)	198	239	240
OPTIONAL ACCESSORIES			
Evaporator Defrost Control	AY28X079	AY28X079	AY28X079
Rubber Isolator Kit	BAYISLT101	BAYISLT101	BAYISLT101
Start Kit	BAYKSKT263	BAYKSKT263	BAYKSKT263
Crankcase Heater Kit	BAYCCHT302RES	BAYCCHT302RES	BAYCCHT302RES
Snow Leg Kit 4"	BAYLEGS004	BAYLEGS004	BAYLEGS004
Snow Leg Kit 7"	BAYLEGS007	BAYLEGS007	BAYLEGS007
Scroll Compressor Enclosure	BAYSDEN003	BAYSDEN003	BAYSDEN003
Low Ambient Kit	BAYLOAM107A	BAYLOAM107A	BAYLOAM107A
Wall Mount Kit ^(d)	BRK05033	BRK05033	BRK05033
Wind Baffle Kit	BAYWIND101	BAYWIND100	BAYWIND100
Refrigerant Lineset ^(e)			
Evaporator Defrost Control	AY28X079	AY28X079	AY28X079

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

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

^(c) Standard line lengths — 150', Standard lift — 50' Suction and Liquid line. For Greater lengths and lifts refer to refrigerant piping software Pub#32-3312-0* (* denotes latest revision).

^(d) Available from Trane Parts

^(e) 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.



Accessory Description and Usage

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 — Six (6) 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.

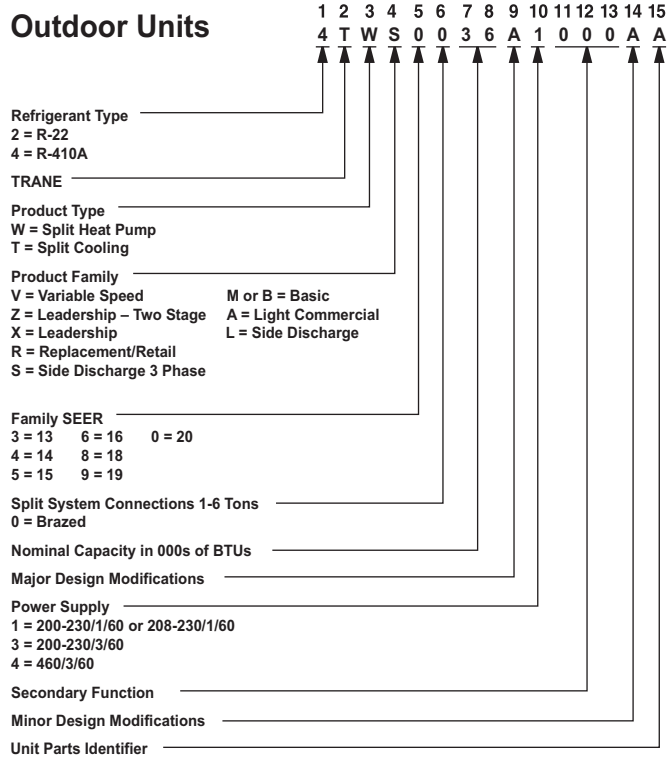
AHRI Standard Capacity Rating Conditions

AHRI Standard 210/240 Rating Conditions

- Cooling 80°F DB, 67°F WB air entering indoor coil, 95°F DB air entering outdoor coil.

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.

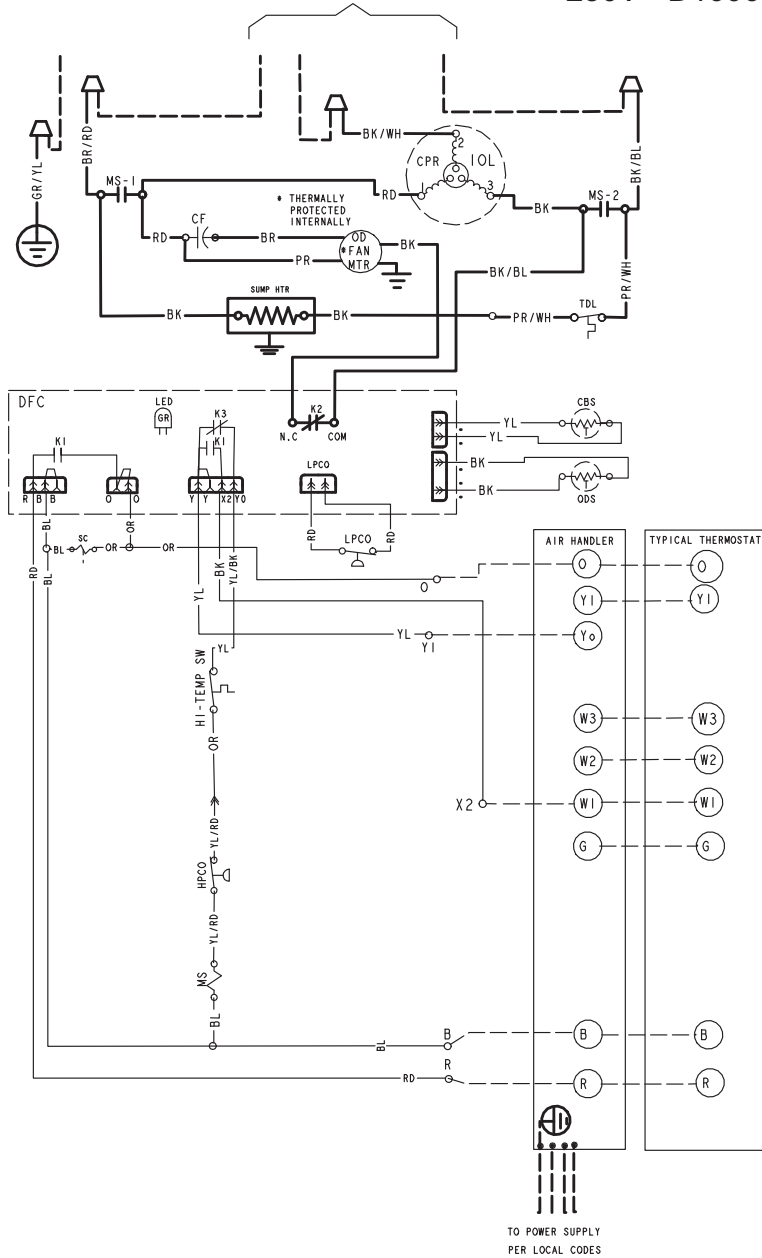
Model Nomenclature



Wiring

Figure 1. Schematic: 3.0, 4.0 and 5.0 Ton Models

230V - D160608P01



LEGEND

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

- ACR A/C RECTIFIER
- CBS COIL BOTTOM SENSOR
- CF FAN CAPACITOR
- CN WIRE CONNECTOR
- CPR COMPRESSOR
- CR RUN CAPACITOR
- CS STARTING CAPACITOR
- CSR CAPACITOR SWITCHING RELAY
- DFC DEFROST CONTROL
- EEV ELECTRONIC EXP VALVE
- EEVC ELECTRONIC EXP VALVE CONTROL
- F INDOOR FAN RELAY
- HPCO HIGH PRESSURE CUTOFF SWITCH
- IOL INTERNAL OVERLOAD PROTECTOR
- LPCO LOW PRESSURE CUTOFF SWITCH
- MS COMPRESSOR MOTOR CONTACTOR
- ODA OUTDOOR ANTICIPATOR
- ODF OUTDOOR FAN RELAY
- OFT OUTDOOR FAN THERMOSTAT
- ODS OUTDOOR TEMPERATURE SENSOR
- ODT OUTDOOR THERMOSTAT
- P-TRD PRESSURE TRANSDUCER
- SC SWITCH OVER VALVE SOLENOID
- SHR SUMP HEATER RELAY
- SW SYSTEM ON-OFF SWITCH
- TDL DISCHARGE LINE THERMOSTAT
- TDR TIME DELAY RELAY (5 SEC DELAY ON)
- TNS TRANSFORMER
- TEMP SENSOR, TEMPERATURE
- Y2C HIGH CAPACITY CONTROL RELAY

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

- 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.

WARNING
HAZARDOUS VOLTAGE!
DISCONNECT ALL ELECTRICAL POWER INCLUDING REMOTE DISCONNECTS BEFORE SERVICING.
Failure to disconnect power before servicing can cause severe personal injury or death.

CAUTION
USE COPPER CONDUCTORS ONLY!
UNIT TERMINALS ARE NOT DESIGNED TO ACCEPT OTHER TYPES OF CONDUCTORS.
Failure to do so may cause damage to the equipment.

Figure 2. Schematic: 3.0, 4.0 and 5.0 Ton Models

230V - D160608P01

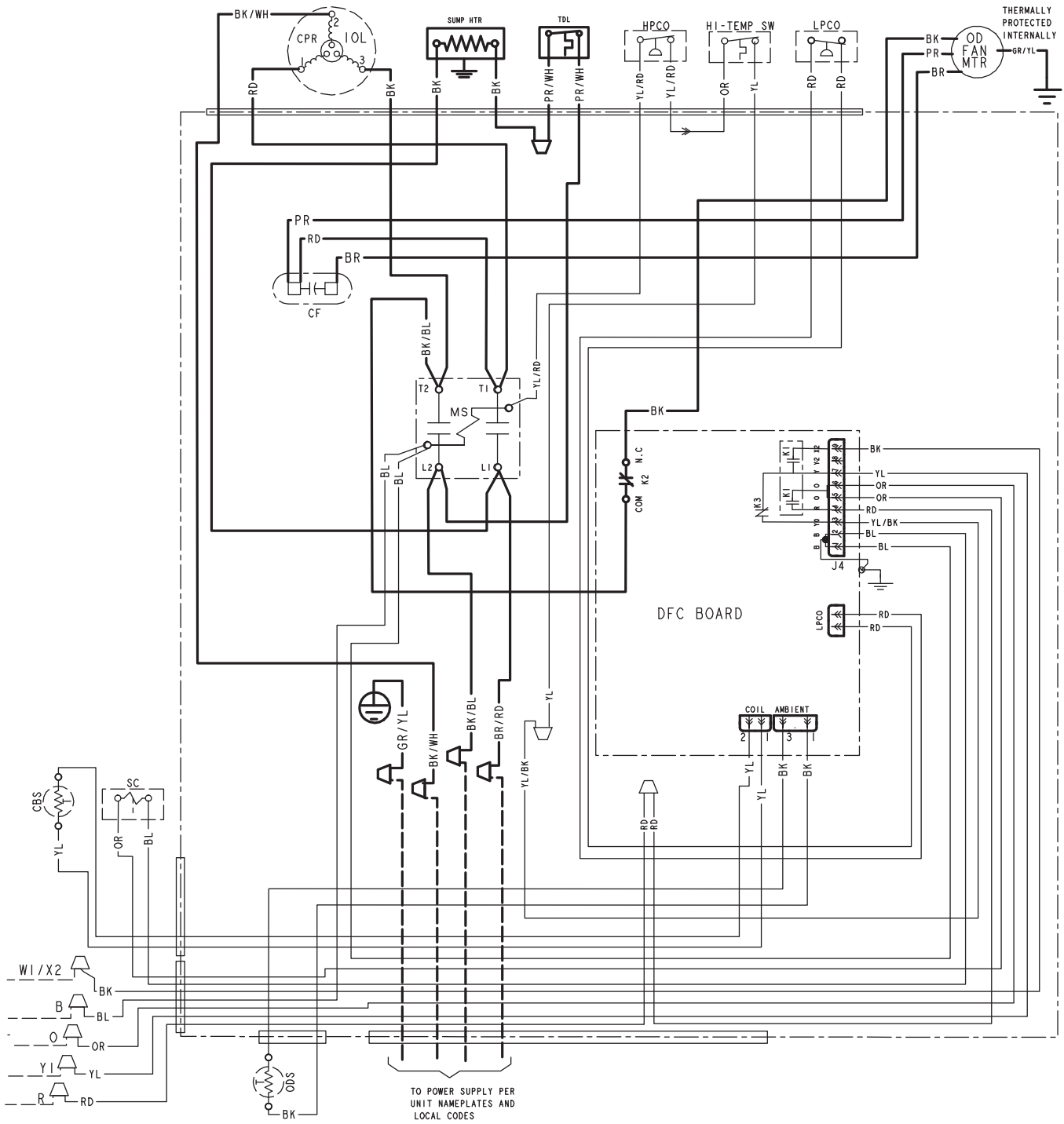
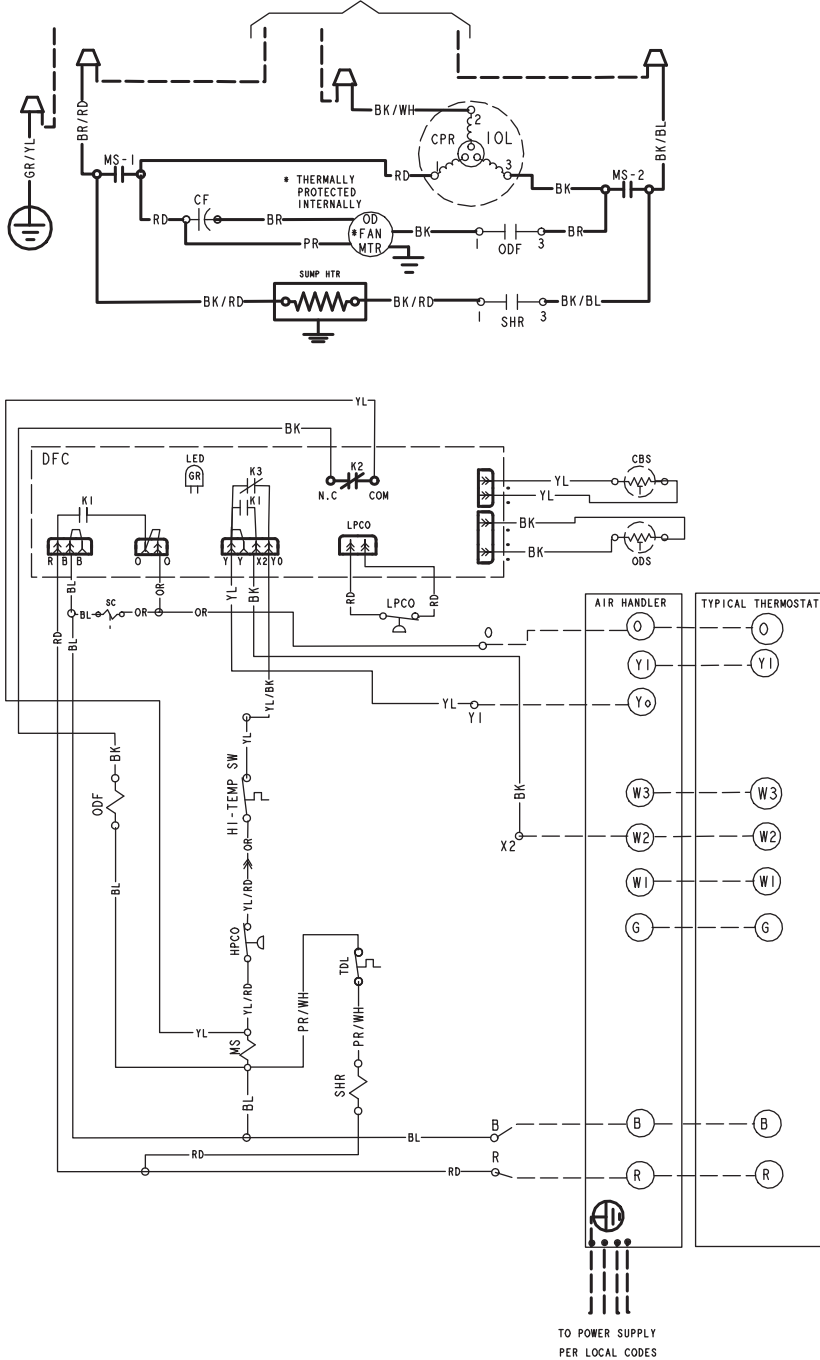


Figure 3. Schematic: 3.0 Ton Model

460V - D160606P01

TO POWER SUPPLY PER UNIT NAMEPLATE AND LOCAL CODES



LEGEND

- | | | | |
|-----|-----------------------|-------|-----------------------------------|
| — | 24 V } FACTORY WIRING | ACR | A/C RECTIFIER |
| --- | 24 V } FIELD WIRING | CBS | COIL BOTTOM SENSOR |
| --- | 24 V } FIELD WIRING | CF | FAN CAPACITOR |
| --- | 24 V } FIELD WIRING | CN | WIRE CONNECTOR |
| --- | 24 V } FIELD WIRING | CPR | COMPRESSOR |
| --- | 24 V } FIELD WIRING | CR | RUN CAPACITOR |
| --- | 24 V } FIELD WIRING | CS | STARTING CAPACITOR |
| --- | 24 V } FIELD WIRING | CSR | CAPACITOR SWITCHING RELAY |
| --- | 24 V } FIELD WIRING | DFC | DEFROST CONTROL |
| --- | 24 V } FIELD WIRING | EEV | ELECTRONIC EXP VALVE |
| --- | 24 V } FIELD WIRING | EEVC | ELECTRONIC EXP VALVE CONTROL |
| --- | 24 V } FIELD WIRING | F | INDOOR FAN RELAY |
| --- | 24 V } FIELD WIRING | HPCO | HIGH PRESSURE CUTOUT SWITCH |
| --- | 24 V } FIELD WIRING | HTS | HIGH TEMPERATURE SWITCH |
| --- | 24 V } FIELD WIRING | IOL | INTERNAL OVERLOAD PROTECTOR |
| --- | 24 V } FIELD WIRING | LPCO | LOW PRESSURE CUTOUT SWITCH |
| --- | 24 V } FIELD WIRING | MS | COMPRESSOR MOTOR CONTACTOR |
| --- | 24 V } FIELD WIRING | ODA | OUTDOOR ANTICIPATOR |
| --- | 24 V } FIELD WIRING | ODF | OUTDOOR FAN RELAY |
| --- | 24 V } FIELD WIRING | OFT | OUTDOOR FAN THERMOSTAT |
| --- | 24 V } FIELD WIRING | ODS | OUTDOOR TEMPERATURE SENSOR |
| --- | 24 V } FIELD WIRING | ODT | OUTDOOR THERMOSTAT |
| --- | 24 V } FIELD WIRING | P-TRD | PRESSURE TRANSDUCER |
| --- | 24 V } FIELD WIRING | SC | SWITCH OVER VALVE SOLENOID |
| --- | 24 V } FIELD WIRING | SHR | SUMP HEATER RELAY |
| --- | 24 V } FIELD WIRING | SW | SYSTEM ON-OFF SWITCH |
| --- | 24 V } FIELD WIRING | TDL | DISCHARGE LINE THERMOSTAT |
| --- | 24 V } FIELD WIRING | TDR | TIME DELAY RELAY (5 SEC DELAY ON) |
| --- | 24 V } FIELD WIRING | TMS | TRANSFORMER |
| --- | 24 V } FIELD WIRING | TEMP | SENSOR, TEMPERATURE |
| --- | 24 V } FIELD WIRING | Y2C | HIGH CAPACITY CONTROL RELAY |

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

- 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.

WARNING

HAZARDOUS VOLTAGE!
 DISCONNECT ALL ELECTRICAL POWER INCLUDING REMOTE DISCONNECTS BEFORE SERVICING.
 Failure to disconnect power before servicing can cause severe personal injury or death.

CAUTION

USE COPPER CONDUCTORS ONLY!
 UNIT TERMINALS ARE NOT DESIGNED TO ACCEPT OTHER TYPES OF CONDUCTORS.
 Failure to do so may cause damage to the equipment.

Figure 4. Schematic: 3.0 Ton Model

460V - D160606P01

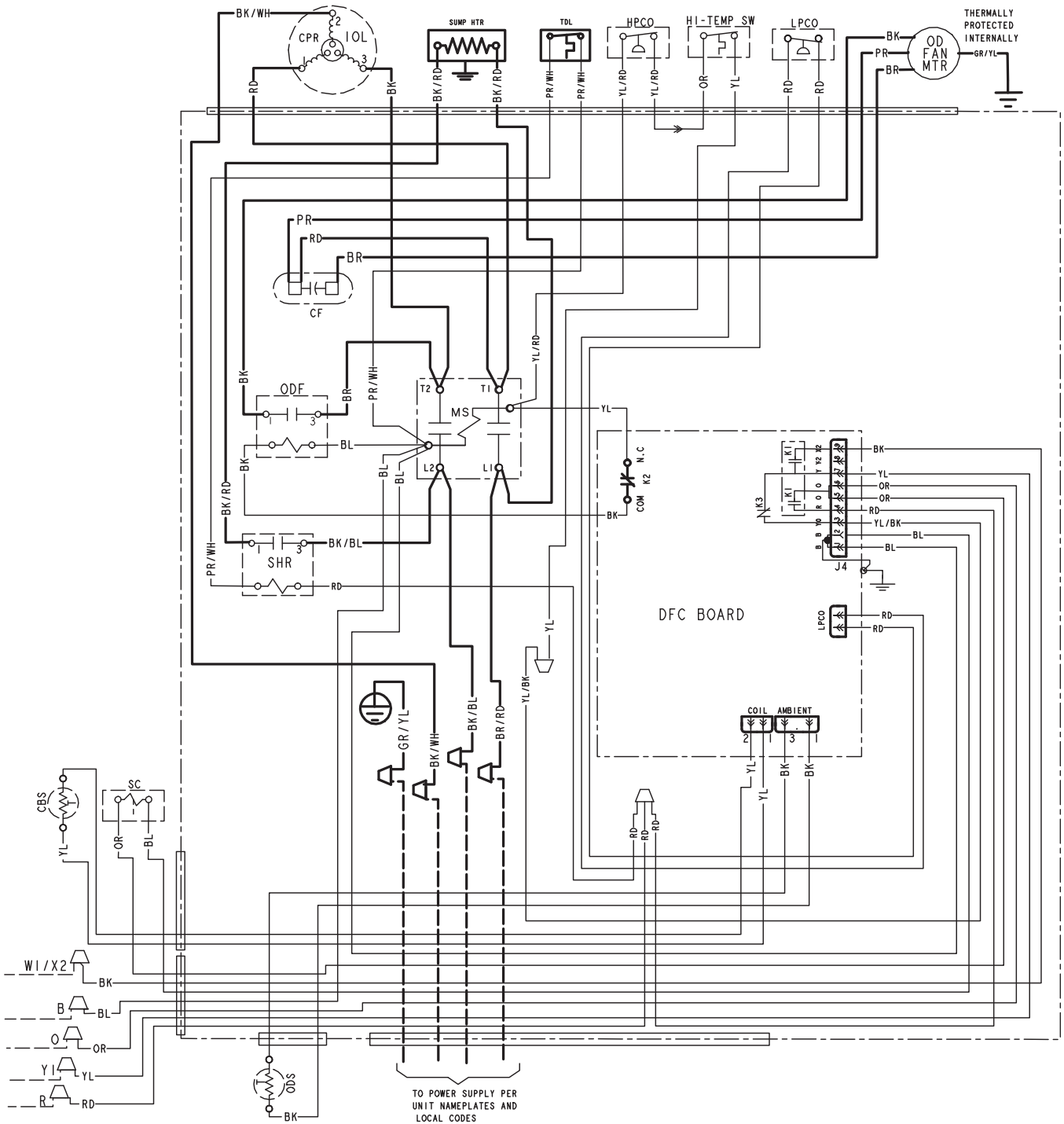


Figure 5. Schematic: 4.0 and 5.0 Ton Models

460V - D161054P01

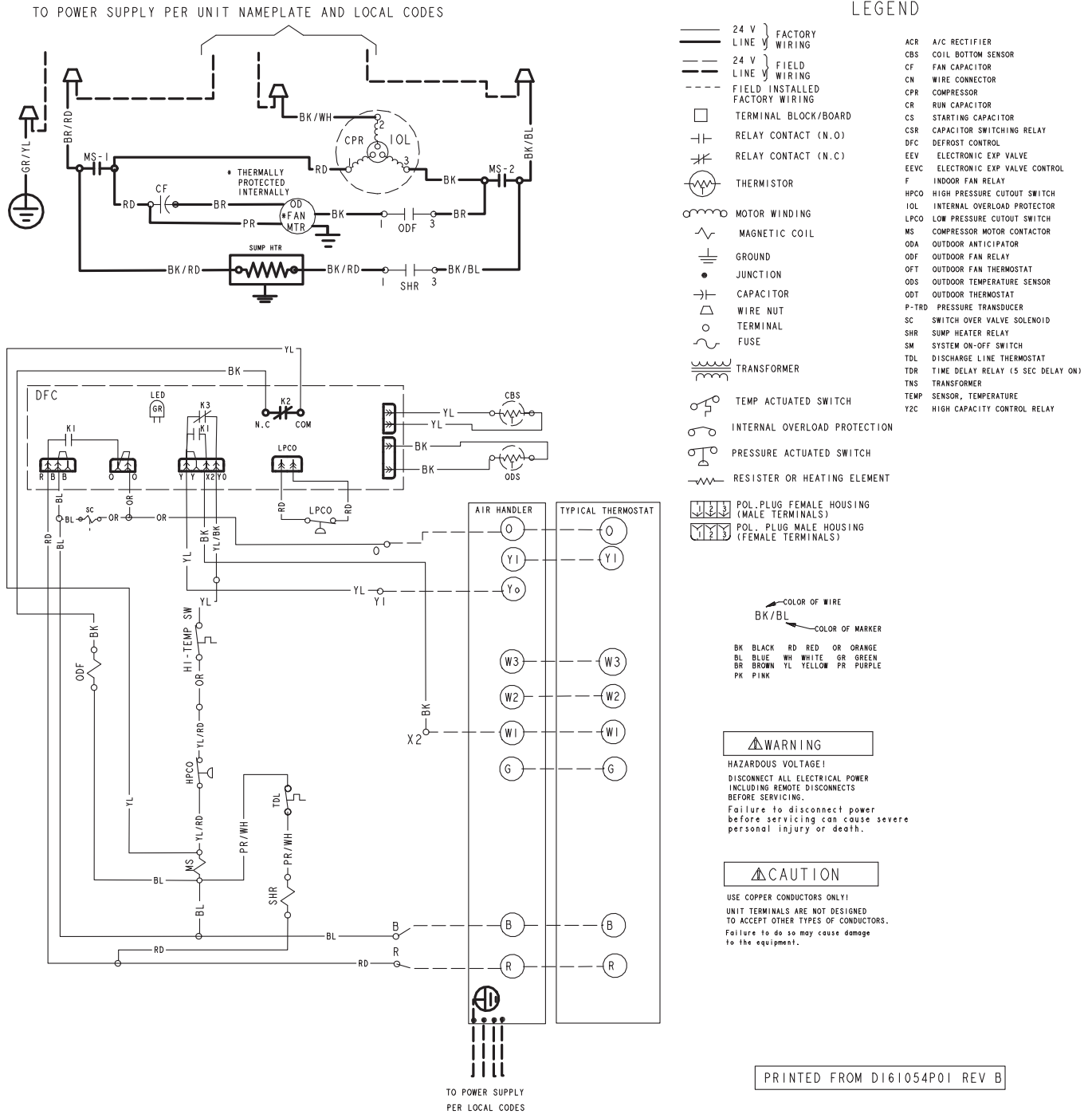
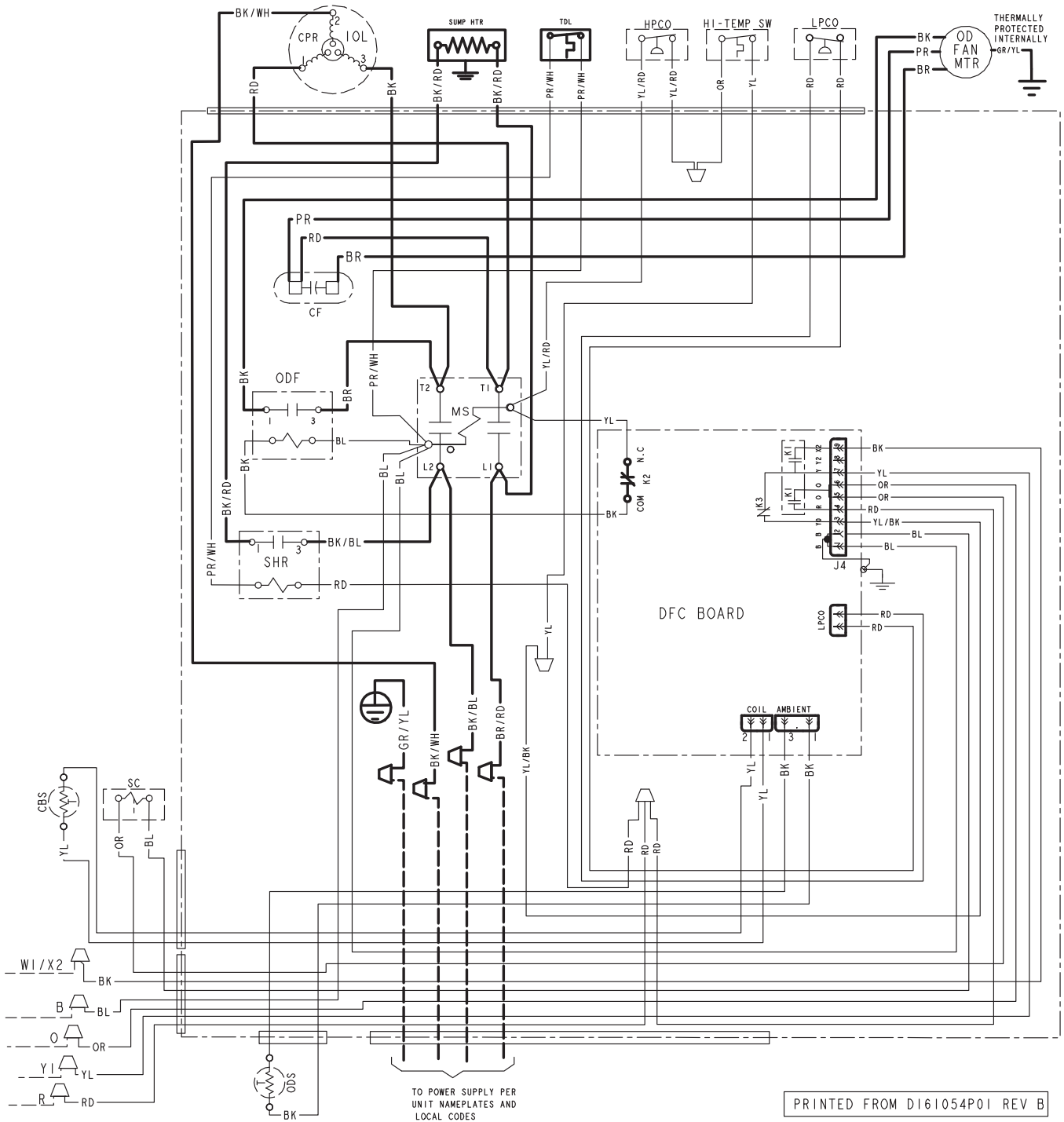


Figure 6. Schematic: 4.0 and 5.0 Ton Models

460V - D161054P01





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 - by Trane Technologies (NYSE: TT), a global climate 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.

22-1947-1C-EN 02 Apr 2020
Supersedes 22-1947-1B-EN (January 2020)

© 2020 Trane