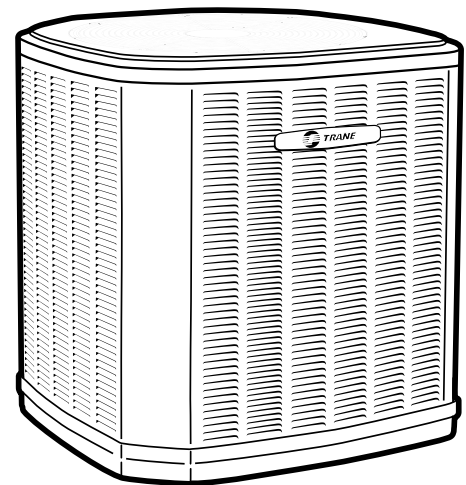




# Product Data

## Split System Heat Pump

- 4TWR6018H1000A
- 4TWR6024H1000A
- 4TWR6030H1000A
- 4TWR6036H1000A
- 4TWR6042H1000A
- 4TWR6048H1000A
- 4TWR6060H1000A



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



# Product Specifications

Model No. <sup>(a)</sup>	4TWR6018H1000A	4TWR6024H1000A	4TWR6030H1000A	4TWR6036H1000A
POWER CONNS. — V/PH/HZ <sup>(b)</sup>	208/230/1/60	208/230/1/60	208/230/1/60	208/230/1/60
MIN. BRCH. CIR. AMPACITY	12	14	17	18
BR. CIR. PROT. RTG. — MAX. (AMPS)	20	25	25	30
COMPRESSOR	CLIMATUFF®- SCROLL	CLIMATUFF®- SCROLL	CLIMATUFF®- SCROLL	CLIMATAUFF®- SCROLL
RL AMPS — LR AMPS	9 — 56	10.9 — 62.9	12.8 — 67.8	14.1 — 72.2
Outdoor Fan FL AMPS	0.64	0.64	0.71	0.64
Fan HP	1/8	1/8	1/8	1/8
Fan Dia (inches)	23	23	27.5	27.5
Coil	SPINE FIN™	SPINE FIN™	SPINE FIN™	SPINE FIN™
Refrigerant R-410A	7 LBS., 4 OZ	7 LBS., 5 OZ	8 LBS., 0 OZ	8 LBS., 14 OZ
LINE SIZE — IN. O.D. GAS <sup>(c) (d)</sup>	3/4	3/4	3/4	3/4
LINE SIZE — IN. O.D. LIQ.	3/8	3/8	3/8	3/8
Charge Spec. Subcooling	8°F	10°F (see charging info)	10°F	10°F
Dimensions H x W X D Crated (IN.)	38 x 30.1 x 33	38 x 30.1 x 33	42 x 35.1 x 38.7	42 x 35.1 x 38.7
Weight — Shipping (lbs.)	208	208	245	246
Weight — Net (lbs.)	174	174	198	199
<b>Optional Accessories:</b>				
Anti-short Cycle Timer	TAYASCT501A	TAYASCT501A	TAYASCT501A	TAYASCT501A
Evaporator Defrost Control	NA	NA	NA	NA
Rubber Isolator Kit	BAYISLT101	BAYISLT101	BAYISLT101	BAYISLT101
Extreme Condition Mount Kit	BAYECMT023	BAYECMT023	BAYECMT004	BAYECMT004
Start Kit	—	BAYKSKT263	BAYKSKT263	BAYKSKT263
Crankcase Heater Kit	BAYCCHT302	BAYCCHT302	BAYCCHT302	BAYCCHT302
Seacoast Kit	BAYSEAC001	BAYSEAC001	BAYSEAC001	BAYSEAC001
Low Ambient Kit	BAYLOAM107	BAYLOAM107	BAYLOAM107	BAYLOAM107
Refrigerant Lineset <sup>(e)</sup>	TAYREFLN7*	TAYREFLN7*	TAYREFLN7*	TAYREFLN7*
Service Valve Panel Cover	TAYSVPANL3343AA	TAYSVPANL3343AA	TAYSVPANL0044AA	TAYSVPANL0044AA

<sup>(a)</sup> Certified in accordance with the Unitary Air-conditioner equipment certification program which is based on AHRI standard 210/240.

<sup>(b)</sup> Calculated in accordance with N.E.C. Only use HACR circuit breakers or fuses.

<sup>(c)</sup> 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 application guide SS-APG006-xx for long line sets or specialty applications (xx denotes latest revision).

<sup>(d)</sup> Trane outdoor condensing units are factory charged with the system charge required for the outdoor condensing unit and 15 feet of tested connecting lines. If connecting line length exceeds 15 feet, then final refrigerant charge adjustment is necessary. Each additional foot over 15 feet requires 0.6 ozs of refrigerant. See the Installer's Guide for full charging instructions.

<sup>(e)</sup> \* = 15, 20, 25, 30, 40 and 50 foot lineset available.



## Product Specifications

Model No. <sup>(a)</sup>	4TWR6042H1000A	4TWR6048H1000A	4TWR6060H1000A
POWER CONNS. — V/PH/HZ <sup>(b)</sup>	280/230/1/60	280/230/1/60	280/230/1/60
MIN. BRCH. CIR. AMPACITY	22	26	31
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	23.7 — 152.5
Outdoor Fan FL AMPS	2.80	2.80	2.80
Fan HP	1/3	1/3	1/3
Fan Dia (inches)	26.6	27.6	27.6
Coil	SPINE FIN™	SPINE FIN™	SPINE FIN™
Refrigerant R-410A	10 LBS., 5 OZ	10 LBS., 9 OZ	10 LBS., 9 OZ
LINE SIZE — IN. O.D. GAS <sup>(c)</sup> <sup>(d)</sup>	7/8	7/8	7/8
LINE SIZE — IN. O.D. LIQ.	3/8	3/8	3/8
Charge Spec. Subcooling	12°F	8°F	8°F
Dimensions H x W x D Crated (IN.)	51 x 35.1 x 38.7	51 x 35.1 x 38.7	51 x 35.1 x 38.7
Weight — Shipping (lbs.)	277	300	301
Weight — Net (lbs.)	227	250	251
<b>Optional Accessories:</b>			
Anti-short Cycle Timer	TAYASCT501A	TAYASCT501A	TAYASCT501A
Evaporator Defrost Control	NA	NA	NA
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
Refrigerant Lineset <sup>(e)</sup>	TAYREFLN3*	TAYREFLN3*	TAYREFLN3*
Service Valve Panel Cover	TAYSVPANL0046AA	TAYSVPANL0046AA	TAYSVPANL0046AA

<sup>(a)</sup> Certified in accordance with the Unitary Air-conditioner equipment certification program which is based on AHRI standard 210/240.

<sup>(b)</sup> Calculated in accordance with N.E.C. Only use HACR circuit breakers or fuses.

<sup>(c)</sup> 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 application guide SS-APG006-xx for long line sets or specialty applications (xx denotes latest revision).

<sup>(d)</sup> Trane outdoor condensing units are factory charged with the system charge required for the outdoor condensing unit and 15 feet of tested connecting lines. If connecting line length exceeds 15 feet, then final refrigerant charge adjustment is necessary. Each additional foot over 15 feet requires 0.6 ozs of refrigerant. See the Installer's Guide for full charging instructions.

<sup>(e)</sup> \* = 15, 20, 25, 30, 40 and 50 foot lineset available.



## Product Specifications

### 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
4TWR6018H1	74	72	69	63	70	70	67	56	49
4TWR6024H1	71	77	72	68	68	69	60	53	47
4TWR6030H1	70	75	69	68	68	66	62	57	51
4TWR6036H1	70	75	69	68	68	66	62	57	51
4TWR6042H1	72	77	75	72	70	67	62	59	52
4TWR6048H1	72	77	75	72	70	67	62	59	52
4TWR6060H1	72	77	75	72	70	67	62	59	52

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.

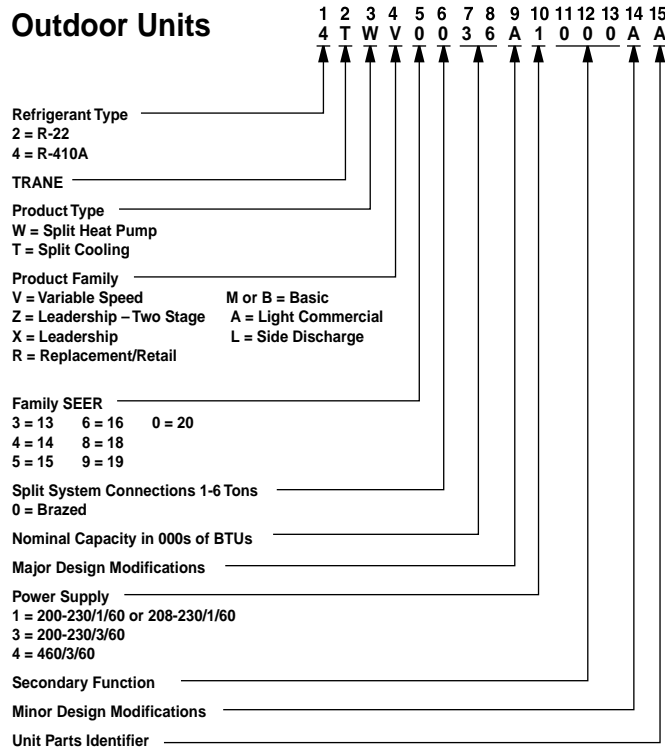
## AHRI Standard Capacity Rating Conditions

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.

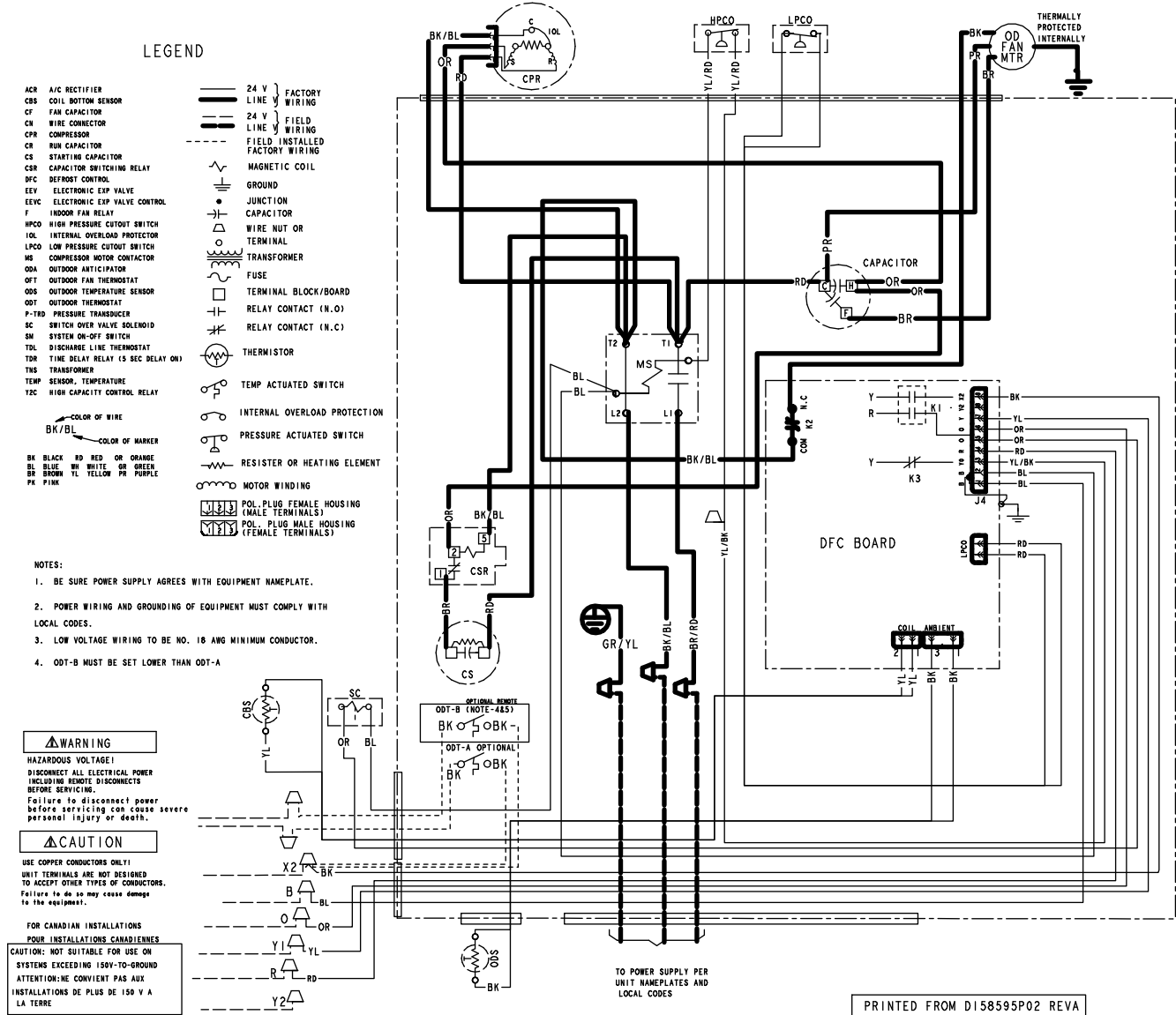
**AHRI Standard 270 Rating Conditions** — (Noise rating numbers are determined with the unit in cooling operations.) Standard Noise Rating number is at 95°F outdoor air.

## Model Nomenclature



# Schematic Diagrams

Figure 1. 2.0 Ton Models



## Figure 2. 1.5 and 3.0 Ton Models

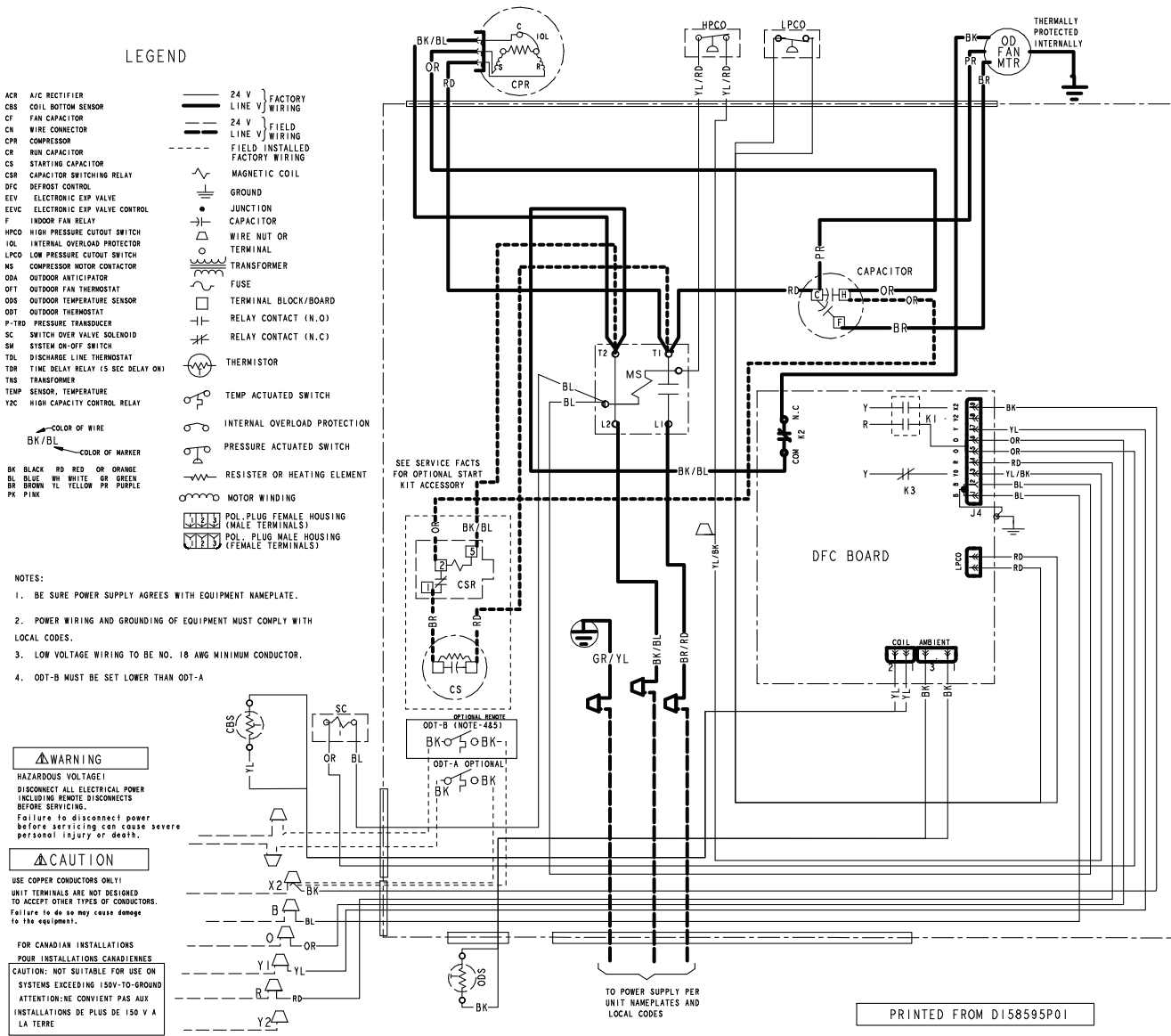
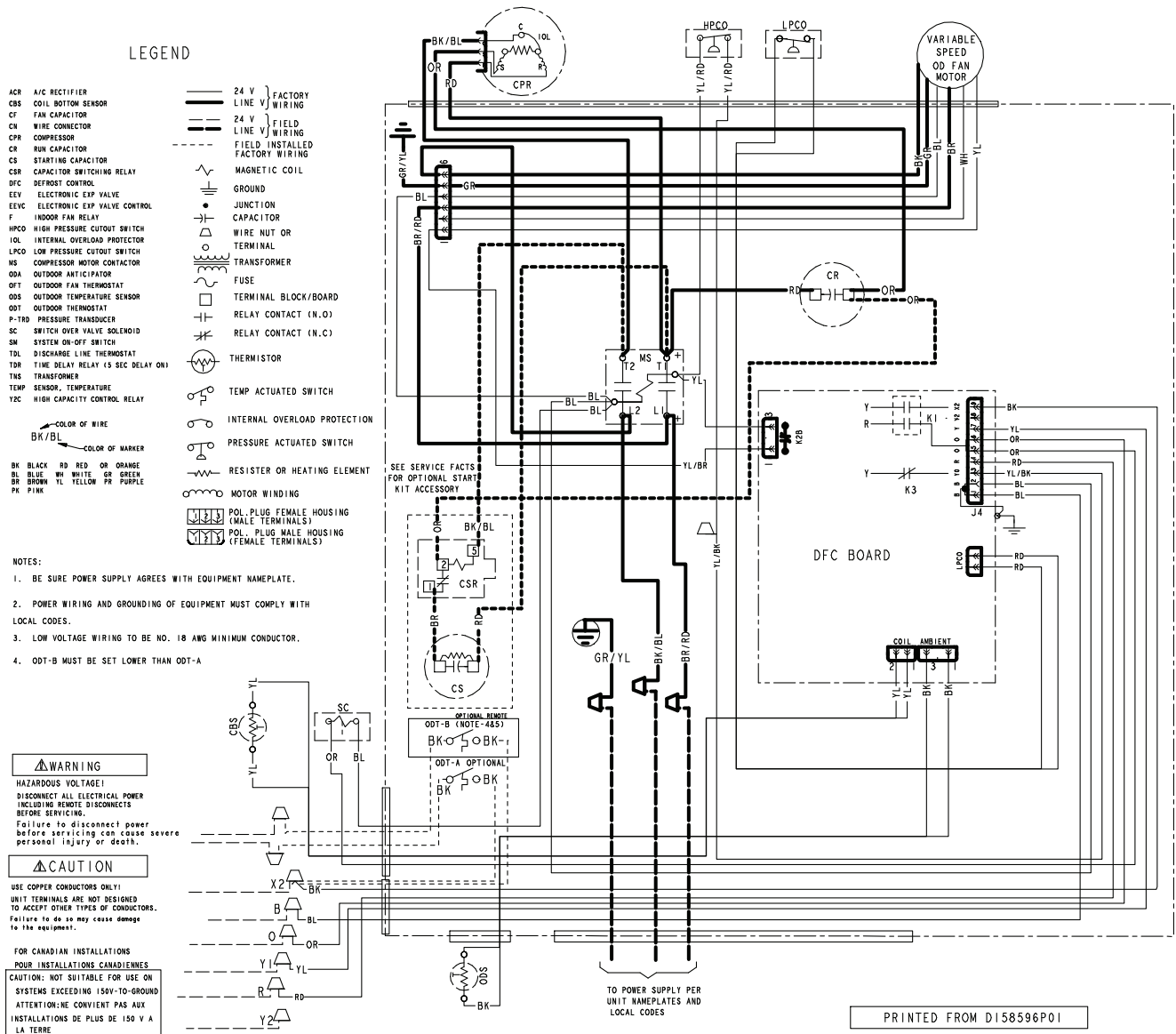


Figure 3. 3.5 — 5.0 Ton Models



**LEGEND**

ACR AIR 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  
 OFT OUTDOOR FAN THERMOSTAT  
 ODS OUTDOOR TEMPERATURE SENSOR  
 ODT OUTDOOR THERMOSTAT  
 P-TRD PRESSURE TRANSDUCER  
 SC SWITCH OVER VALVE SOLENOID  
 SM SYSTEM ON-OFF SWITCH  
 TDL DISCHARGE LINE THERMOSTAT  
 TRM TIME DELAY RELAY (5 SEC DELAY ON)  
 TRS TRANSFORMER  
 TEMP SENSOR, TEMPERATURE  
 Y2C HIGH CAPACITY CONTROL RELAY

——— 24 V } FACTORY  
 LINE V } WIRING  
 ——— 24 V } FIELD  
 LINE V } WIRING  
 - - - - - FIELD INSTALLED  
 FACTORY WIRING

[Symbol] MAGNETIC COIL  
 [Symbol] GROUND  
 [Symbol] JUNCTION  
 [Symbol] CAPACITOR  
 [Symbol] WIRE NUT OR  
 TERMINAL  
 [Symbol] TRANSFORMER  
 [Symbol] FUSE  
 [Symbol] TERMINAL BLOCK/BOARD  
 [Symbol] RELAY CONTACT (N.O)  
 [Symbol] RELAY CONTACT (N.C)  
 [Symbol] THERMISTOR  
 [Symbol] TEMP ACTUATED SWITCH  
 [Symbol] INTERNAL OVERLOAD PROTECTION  
 [Symbol] PRESSURE ACTUATED SWITCH  
 [Symbol] RESISTOR OR HEATING ELEMENT  
 [Symbol] MOTOR WINDING  
 [Symbol] POL. PLUG FEMALE HOUSING  
 (MALE TERMINALS)  
 [Symbol] POL. PLUG MALE HOUSING  
 (FEMALE TERMINALS)

——— 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.
  4. ODT-B MUST BE SET LOWER THAN ODT-A

**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.

FOR CANADIAN INSTALLATIONS  
 POUR INSTALLATIONS CANADIENNES

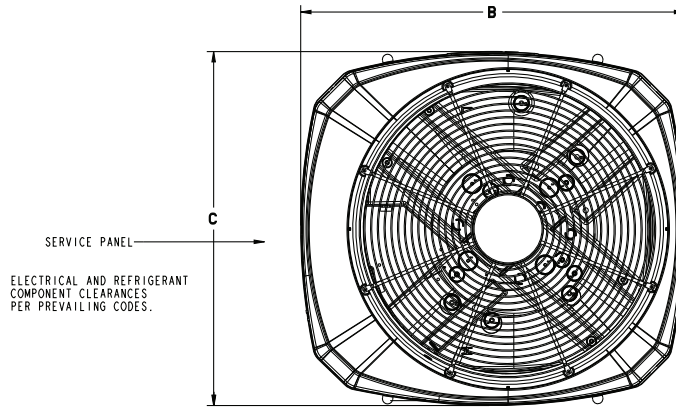
CAUTION: NOT SUITABLE FOR USE ON SYSTEMS EXCEEDING 150V-TO-GROUND  
 ATTENTION: NE CONVIENT PAS AUX INSTALLATIONS DE PLUS DE 150 V A LA TERRE

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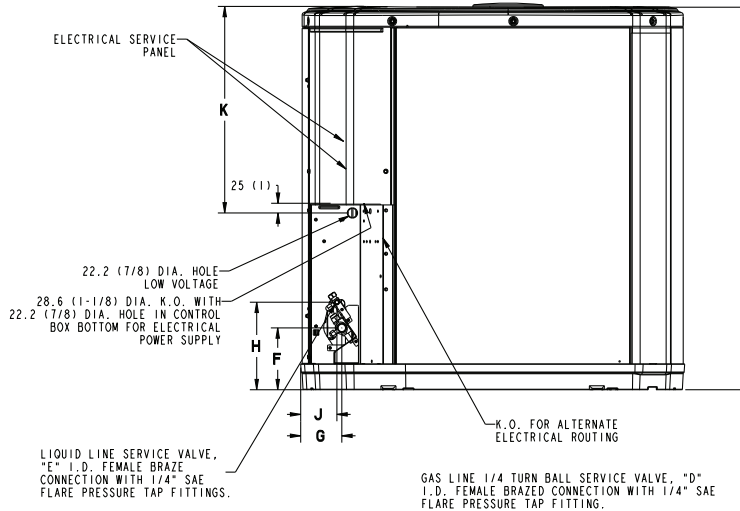




# Outline Drawing



TOP DISCHARGE AREA SHOULD BE UNRESTRICTED FOR AT LEAST 1524 (5 FEET) ABOVE UNIT. 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.



Model	Base	A	B	C	D	E	F	G	H	J	K
4TWR6018H	3	832 (32-3/4)	829 (32-5/8)	756 (29-3/4)	3/4	3/8	127 (5)	76 (3)	197 (7-3/4)	60 (2-3/8)	508 (20)
4TWR6024H	3	832 (32-3/4)	829 (32-5/8)	756 (29-3/4)	3/4	3/8	127 (5)	76 (3)	197 (7-3/4)	60 (2-3/8)	508 (20)
4TWR6030H	4	943 (37-1/8)	946 (37-1/4)	870 (34-1/4)	3/4	3/8	143 (5-5/8)	98 (3-7/8)	219 (8-5/8)	86 (3-3/8)	508 (20)
4TWR6036H	4	943 (37-1/8)	946 (37-1/4)	870 (34-1/4)	3/4	3/8	143 (5-5/8)	98 (3-7/8)	219 (8-5/8)	86 (3-3/8)	508 (20)
4TWR6042H	4	1147 (45-1/8)	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)	813 (32)
4TWR6048H	4	1147 (45-1/8)	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)	813 (32)
4TWR6060H	4	1147 (45-1/8)	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)	813 (32)



# Mechanical Specification Options

## General

The Outdoor Units are fully charged from the factory for up to 15 feet of piping. 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.





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