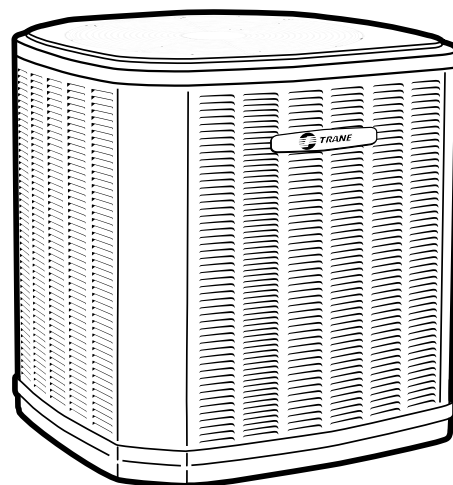




Product Data

Split System Heat Pump

5TWR4018A1000A
5TWR4024A1000A
5TWR4030A1000A
5TWR4036A1000A
5TWR4042A1000A
5TWR4048A1000A
5TWR4060A1000A



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



Product Specifications

Model No. ^(a)	5TWR4018A1000A	5TWR4024A1000A	5TWR4030A1000A	5TWR4036A1000A
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	16	19
BR. CIR. PROT. RTG. – MAX. (AMPS)	20	20	25	30
COMPRESSOR	CLIMATUFF® - SCROLL	CLIMATUFF® - SCROLL	CLIMATUFF® - SCROLL	CLIMATUFF® - SCROLL
RL AMPS – LR AMPS	7.8 - 47.5	9.1 - 75.9	10.4 - 71.0	14.1 - 83.2
Outdoor Fan FL AMPS	0.64	0.64	0.64	0.64
Fan HP	1/8	1/8	1/8	1/8
Fan Dia (inches)	23	23	23	27.5
Coil	SPINE FIN™	SPINE FIN™	SPINE FIN™	SPINE FIN™
Refrigerant R-454B	4 LBS., 12 OZ	4 LBS., 10 OZ	4 LBS., 10 OZ	5 LBS., 10 OZ
LINE SIZE – IN. O.D. GAS ^{(c) (d)}	3/4	3/4	3/4	3/4
LINE SIZE – IN. O.D. LIQ.	5/16	5/16	5/16	5/16
Charge Spec. Subcooling	9°F	12°F	12°F	10°F
Dimensions H x W X D Crated (IN.)	38.1 X 30 X 33	38.1 X 30 X 33	38.1 X 30 X 33	38.5 X 35 X 37.9
Weight – Shipping (lbs.)	208	208	208	256
Weight – Net (lbs.)	174	174	174	222
Optional Accessories:				
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
Service Valve Panel Cover	TAYSVPANL3343AA	TAYSVPANL3343AA	TAAYSVPANL0044AA	TAYSVPANL0044AA
Refrigerant Lineset ^(e)				

^(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) 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).

^(d) 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.

^(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

Model No. ^(a)	5TWR4042A1000A	5TWR4048A1000A	5TWR4060A1000A
POWER CONNS. – V/PH/HZ ^(b)	280/230/1/60	280/230/1/60	280/230/1/60
MIN. BRCH. CIR. AMPACITY	24	25	33
BR. CIR. PROT. RTG. – MAX. (AMPS)	40	40	50
COMPRESSOR	CLIMATUFF® - SCROLL	CLIMATUFF® - SCROLL	CLIMATUFF® - SCROLL
RL AMPS – LR AMPS	16.9 - 104.7	18.1 - 95.0	22.3 - 136.6
Outdoor Fan FL AMPS	2.80	2.80	2.80
Fan HP	1/3	1/3	1/3
Fan Dia (inches)	27.5	27.5	27.5
Coil	SPINE FIN™	SPINE FIN™	SPINE FIN™
Refrigerant R-454B	7 LBS., 14 OZ	8 LBS., 9 OZ	8 LBS., 6 OZ
LINE SIZE – IN. O.D. GAS ^{(c) (d)}	7/8	7/8	7/8
LINE SIZE – IN. O.D. LIQ.	5/16	5/16	5/16
Charge Spec. Subcooling	10°F	10°F	10°F
Dimensions H x W X D Crated (IN.)	50.5 X 35 X 37.9	50.5 X 35 X 37.9	50.5 X 35 X 37.9
Weight – Shipping (lbs.)	301	301	301
Weight – Net (lbs.)	251	251	251
Optional Accessories:			
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
Service Valve Panel Cover	TAYSVPANL0046AA	TAYSVPANL0046AA	TAYSVPANL0046AA
Refrigerant Lineset ^(e)			

^(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) 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).

^(d) 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.

^(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.



Sound Power Level

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
5TWR4018A	71	77	72	68	68	69	60	53	47
5TWR4024A	71	77	72	68	68	69	60	53	47
5TWR4030A	71	77	72	68	68	69	60	53	47
5TWR4036A	70	75	69	68	68	66	62	57	51
5TWR4042A	72	77	75	72	70	67	62	59	52
5TWR4048A	72	77	75	72	70	67	62	59	52
5TWR4060A	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.

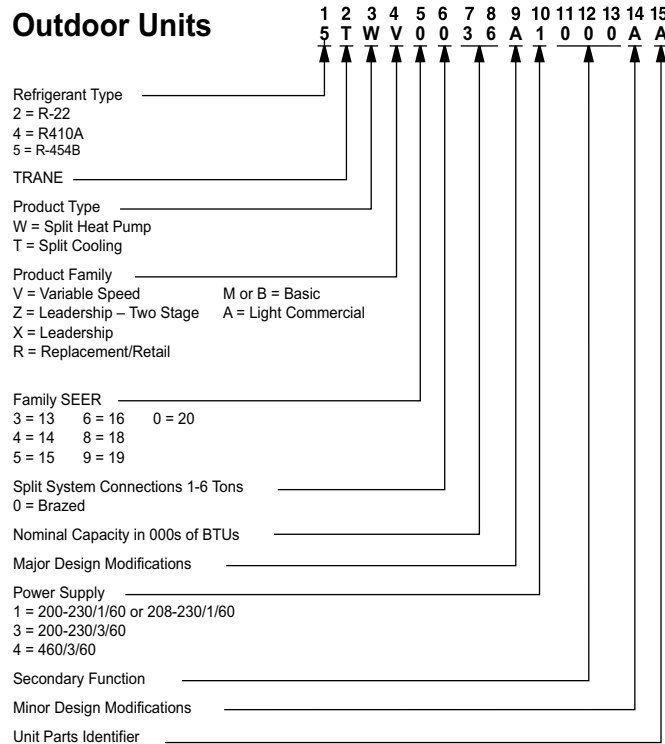
AHRI Standard Capacity Rating Conditions

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.

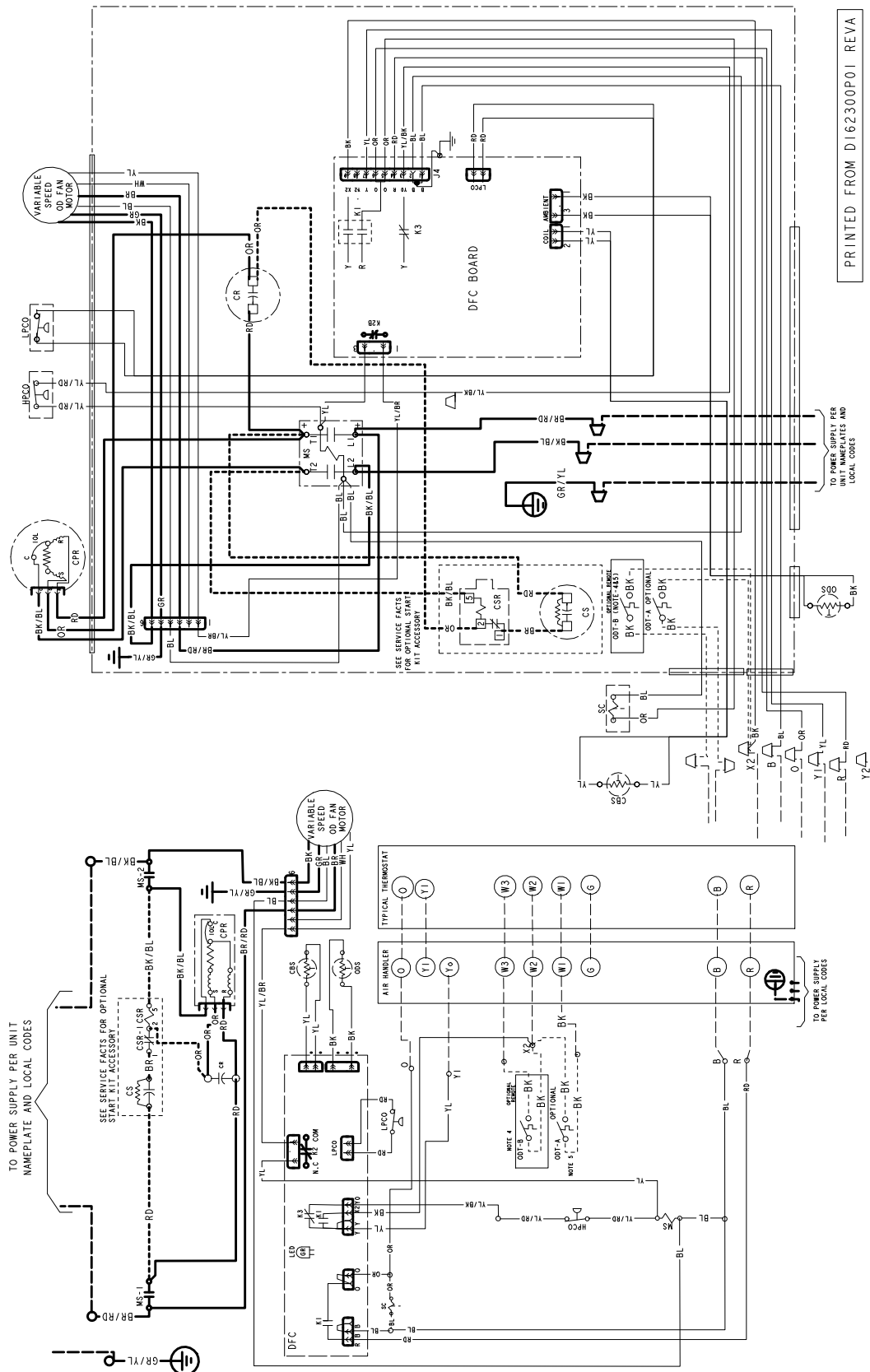
Model Nomenclature





Wiring diagram for the DFC board of a 16229P01 unit. The diagram shows the internal wiring of the DFC board, including the capacitor, fan motor, and various control components. It includes labels for terminals, components, and wiring colors. A note at the bottom right states "TO POWER SUPPLY PER LOCAL CODES". A vertical label on the right side reads "PRINTED FROM DI6229P01 REV A".

Figure 2. 5TWR4042A, 48A, 60A Models

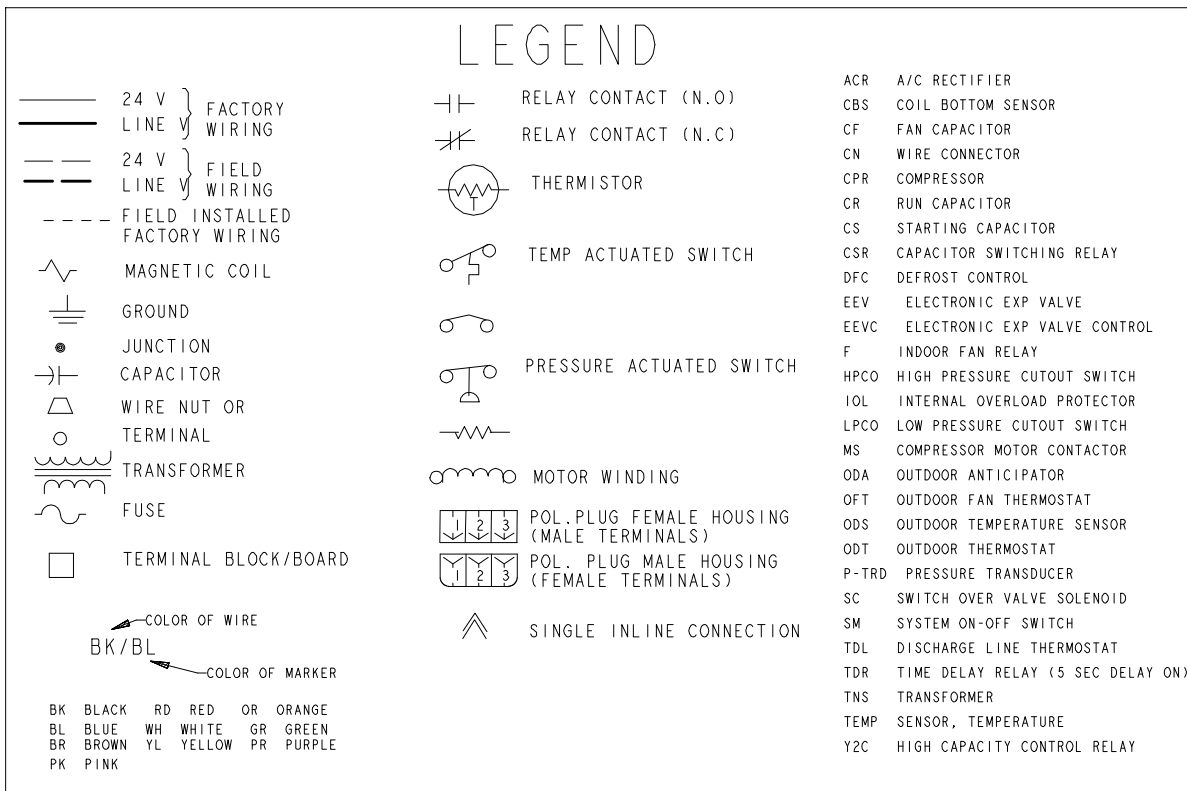




Wiring Diagram

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
5. IF ODT-A IS NOT USED, ADD JUMPER BETWEEN W1 AND W2 AT AIR HANDLER
6. THE GROUND CONNECTIONS SHOWN HERE ARE 2 SEPARATE WIRES, DO NOT CRIMP TOGETHER "GR/YL 1" WIRE IS FOR GROUND LUG AND " GR/YL 2" IS FOR GROUND WIRE/WIRE NUT OPTION.



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.

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.

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

DEFROST FAULT CODES

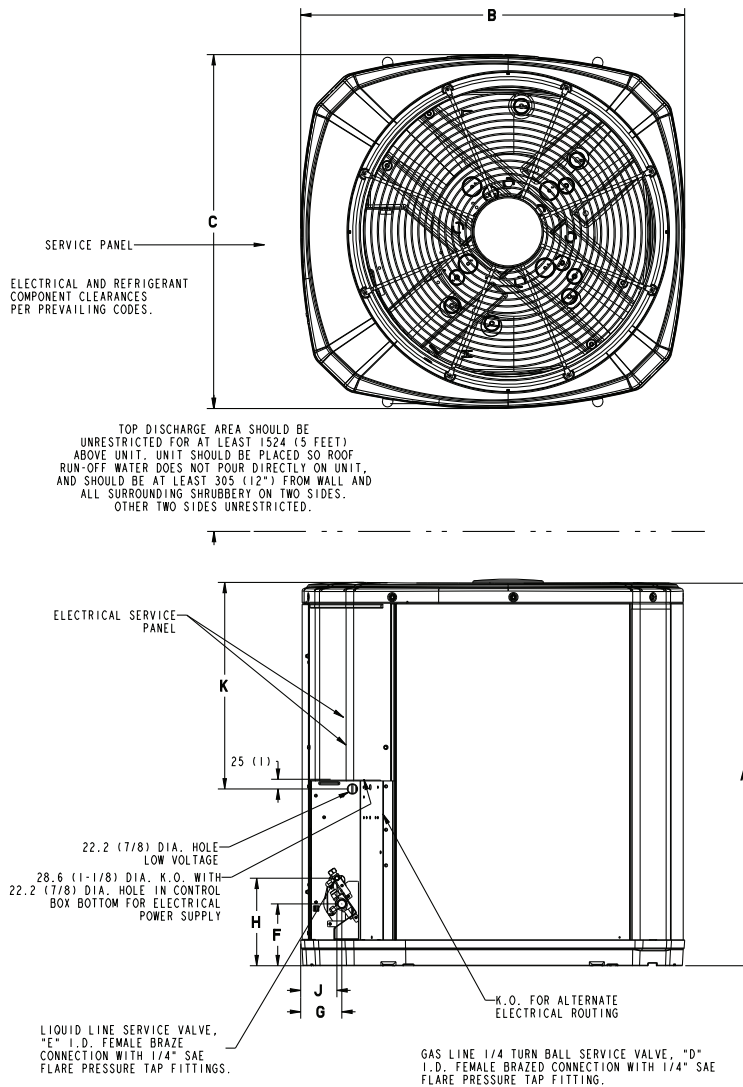
LED FAULT CODES	FAULT DESCRIPTION
1 flash	Ambient Temp Sensor is out of range (open/shorted)
2 flash	Coil Temp Sensor is out of range (open/shorted)
3 flash	Low Pressure Switch is open
4 flash	Hard Lock Out (can only be cleared with power cycle)
5 flash	Soft Lock Out
6 flash	Defrost cycles too close together
7 flash	In Timed Defrost mode. Check Ambient sensor placement and verify SOV is operating properly.
8 flash	In Timed Defrost mode. Check Coil sensor placement and verify SOV is operating properly.
9 flash	Low Ambient Soft Lockout. Outdoor temperature dropped below 3F. (OFF at -7F/ON at 3F)

See Service Facts for more information on Fault Codes

R-454B REFRIGERANT CHARGING CHART								
LIQUID TEMP (°F)	DESIGN SUBCOOLING (°F)							
	8	9	10	11	12	13	14	
	LIQUID GAGE PRESSURE (PSI)							
55	170	172	175	178	181	184	187	
60	184	187	190	194	197	200	203	
65	200	203	206	210	213	217	220	
70	217	220	223	227	230	234	238	
75	234	238	241	245	249	252	256	
80	252	256	260	264	268	272	276	
85	272	276	280	284	288	292	297	
90	292	297	301	305	309	314	318	
95	314	318	323	327	332	336	341	
100	336	341	346	351	355	360	365	
105	360	365	370	375	380	385	390	
110	385	390	396	401	406	412	417	
115	412	417	422	428	433	439	445	
120	439	445	450	456	462	468	474	
125	468	474	480	486	492	498	504	



Outline Drawing



Model	Base	A	B	C	D	E	F	G	H	J	K
5TWR4018A	3	832 (32-3/4)	829 (32-5/8)	756 (29-3/4)	3/4	5/16	127 (5)	76 (3)	197 (7-3/4)	60 (2-3/8)	508 (20)
5TWR4024A	3	832 (32-3/4)	829 (32-5/8)	756 (29-3/4)	3/4	5/16	127 (5)	76 (3)	197 (7-3/4)	60 (2-3/8)	508 (20)
5TWR4030A	3	832 (32-3/4)	829 (32-5/8)	756 (29-3/4)	3/4	5/16	127 (5)	76 (3)	197 (7-3/4)	60 (2-3/8)	508 (20)
5TWR4036A	4	841 (33-1/8)	946 (37-1/4)	870 (34-1/4)	3/4	5/16	143 (5-5/8)	98 (3-7/8)	219 (8-5/8)	86 (3-3/8)	508 (20)
5TWR4042A	4	1147 (45-1/8)	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)	813 (32)
5TWR4048A	4	1147 (45-1/8)	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)	813 (32)
5TWR4060A	4	1147 (45-1/8)	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)	813 (32)



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 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.



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