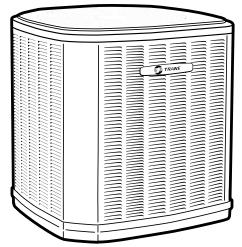


Product Data

Split System Heat Pump

5TWA4036A3000A 5TWA4042A3000A 5TWA4048A3000A 5TWA4060A3000A 5TWA4036A4000A 5TWA4042A4000A 5TWA4048A4000A 5TWA4060A4000A



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

22-2003-1A-EN





Product Specifications

OUTDOOR UNIT (a)	5TWA4036A3000A	5TWA4042A3000A	5TWA4048A3000A	5TWA4060A3000A	
POWER CONNS V/PH/HZ	208/230/3/60	208/230/3/60	208/230/3/60	208/230/3/60	
MIN. BRCH. CIR. AMPACITY	16.6	18.1	18.1	22.8	
BR. CIR. PROT. RTG MAX. (AMPS)	25	30	30	35	
COMPRESSOR	CLIMATUFF®- SCROLL	CLIMATUFF®- SCROLL	CLIMATUFF®- SCROLL	CLIMATUFF®- SCROLL	
R.L. AMPS - L.R. AMPS	12.8 - 97.5	12.2 - 102.8	12.2 - 120.4	16.0 - 156.4	
OUTDOOR FAN	PROPELLER	PROPELLER	PROPELLER	PROPELLER	
DIA. (IN.) - NO. USED	27.5 - 1	27.5 - 1	27.5 - 1	27.5 - 1	
NO. MOTORS - HP	1 - 1/8	1 - 1/3	1 - 1/3	1 - 1/3	
F.L. AMPS	0.64	2.80	2.80	2.80	
OUTDOOR COIL - TYPE	SPINE FIN™	SPINE FIN™	SPINE FIN™	SPINE FIN™	
REFRIGERANT					
LBS R-454B (O.D. UNIT)	5 LBS., 10 OZ	7 LBS., 14 OZ	8 LBS., 9 OZ	8 LBS., 6 OZ	
LINE SIZE - IN. O.D. GAS	3/4	7/8	7/8	7/8	
LINE SIZE - IN. O.D. LIQ.	SIZE - IN. O.D. LIQ. 5/16		5/16	5/16	
CHARGING SPECIFICATIONS					
SUBCOOLING	10°F	10°F	10°F	10°F	
DIMENSIONS	HXWXD	HXWXD	HXWXD	HXWXD	
CRATED (IN.)	38.5 x 35 x 37.9	50.5 x 35 x 37.9	50.5 x 35 x 37.9	50.5 x 35 x 37.9	
WEIGHT					
SHIPPING (LBS.)	256	301	301	301	
NET (LBS.)	222	251	251	251	
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	BAYECMT004	BAYECMT004	BAYECMT004	BAYECMT004	
Sound enclosure	BAYSDEN003	BAYSDEN004	BAYSDEN004	BAYSDEN004	
Seacoast Kit	BAYSEAC001	BAYSEAC001	BAYSEAC001	BAYSEAC001	
Low Ambient Kit	BAYLOAM107	BAYLOAM103	BAYLOAM103	BAYLOAM103	
Service Valve Panel Cover	TAYSVPANL0044AA	TAYSVPANL0046AA	TAYSVPANL0046AA	TAYSVPANL0046AA	
Refrigerant Lineset (e)		•	•	•	

(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 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

OUTDOOR UNIT (a)	5TWA4036A4000A	5TWA4042A4000A	5TWA4048A4000A	5TWA4060A4000A	
POWER CONNS V/PH/HZ (b)	460/3/60	460/3/60	460/3/60	460/3/60	
MIN. BRCH. CIR. AMPACITY	6.8	8.6	9.4	11	
BR. CIR. PROT. RTG MAX. (AMPS)	15	15	15	15	
COMPRESSOR	CLIMATUFF®- SCROLL	CLIMATUFF®- SCROLL	CLIMATUFF®- SCROLL	CLIMATUFF®- SCROLL	
R.L. AMPS - L.R. AMPS	5.1 - 44.3	5.8 - 50	6.4 - 50	7.7 - 69	
OUTDOOR FAN	PROPELLER	PROPELLER	PROPELLER	PROPELLER	
DIA. (IN.) - NO. USED	27.5 -1	27.5 -1	27.5 -1	27.5 -1	
NO. MOTORS - HP	1 - 1/8	1 - 1/3	1 - 1/3	1 - 1/3	
F.L. AMPS	0.38	1.4	1.4	1.4	
OUTDOOR COIL - TYPE	SPINE FIN™	SPINE FIN™	SPINE FIN™	SPINE FIN™	
REFRIGERANT					
LBS R-454B (O.D. UNIT)	5 LBS., 10 OZ	7 LBS., 14 OZ	8 LBS., 9 OZ	8 LBS., 6 OZ	
LINE SIZE - IN. O.D. GAS	3/4	7/8	7/8	7/8	
LINE SIZE - IN. O.D. LIQ.	SIZE - IN. O.D. LIQ. 5/16		5/16	5/16	
CHARGING SPECIFICATIONS					
SUBCOOLING	10°F	10°F	10°F	10°F	
DIMENSIONS	HXWXD	HXWXD	HXWXD	HXWXD	
CRATED (IN.)	38.5 x 35 x 37.9	50.5 x 35 x 37.9	50.5 x 35 x 37.9	50.5 x 35 x 37.9	
WEIGHT					
SHIPPING (LBS.)	256	301	301	301	
NET (LBS.)	222	251	251	251	
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	BAYECMT004	BAYECMT004	BAYECMT004	BAYECMT004	
Sound enclosure	BAYSDEN003	BAYSDEN004	BAYSDEN004	BAYSDEN004	
Crankcase kit	BAYCCHT302	BAYCCHT301	BAYCCHT301	BAYCCHT301	
Start Kit	BAYKSKT263	BAYKSKT263	BAYKSKT263	BAYKSKT263	
Seacoast Kit	BAYSEAC001	BAYSEAC001	BAYSEAC001	BAYSEAC001	
Low Ambient Kit	BAYLOAM107	BAYLOAM103	BAYLOAM103	BAYLOAM103	
Service Valve Panel Cover	TAYSVPANL3343AA	TAYSVPANL0046AA	TAYSVPANL0046AA	TAYSVPANL0046AA	
Refrigerant Lineset (e)					

(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 N.E.C. Only use HACR circuit breakers or fuses.

(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.

⁽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.



Sound Power Level

Sound Power Level												
MODEL	A-Weighted Sound Power Level [dB(A)]	Full Octave Sound Power(dB)										
		63 Hz*	63 Hz* 125 Hz 250 Hz 500 Hz 1000 Hz 2000 Hz 4000 Hz 8									
5TWA4036A3	76	78	75	77	75	70	64	61	56			
5TWA4042A3	74	72	72	71	69	70	62	57	52			
5TWA4048A3	74	72	72	71	69	70	62	57	52			
5TWA4060A3	76	78	75	77	75	70	64	61	56			
5TWA4036A4	76	78	75	77	75	70	64	61	56			
5TWA4042A4	74	72	72	71	69	70	62	57	52			
5TWA4048A4	74	72	72	71	69	70	62	57	52			
5TWA4060A4	76	78	75	77	75	70	64	61	56			

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.

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 outdoor 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

Outdoor Units $1 \ 2 \ 3 \ 4 \ 5 \ 6 \ 7 \ 8 \ 9 \ 10 \ 11 \ 12 \ 13 \ 14 \ 1$ $5 \ T \ W \ V \ 0 \ 0 \ 3 \ 6 \ A \ 1 \ A \ A \ A \ A \ A \ A \ A \ A$
Refrigerant Type
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 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
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



Wiring Diagram

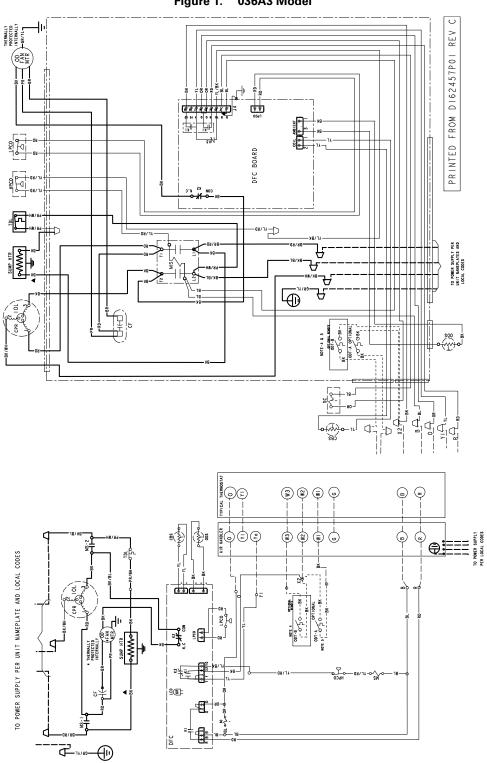
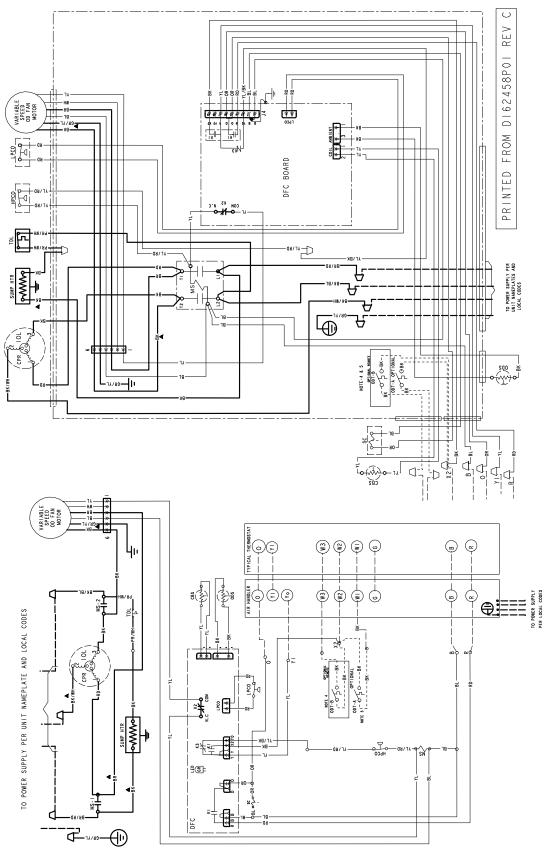
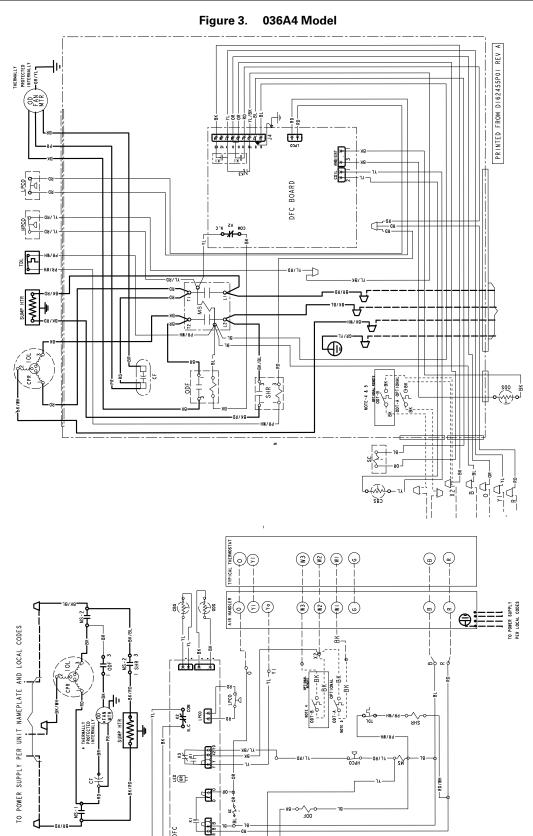


Figure 1. 036A3 Model





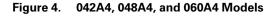




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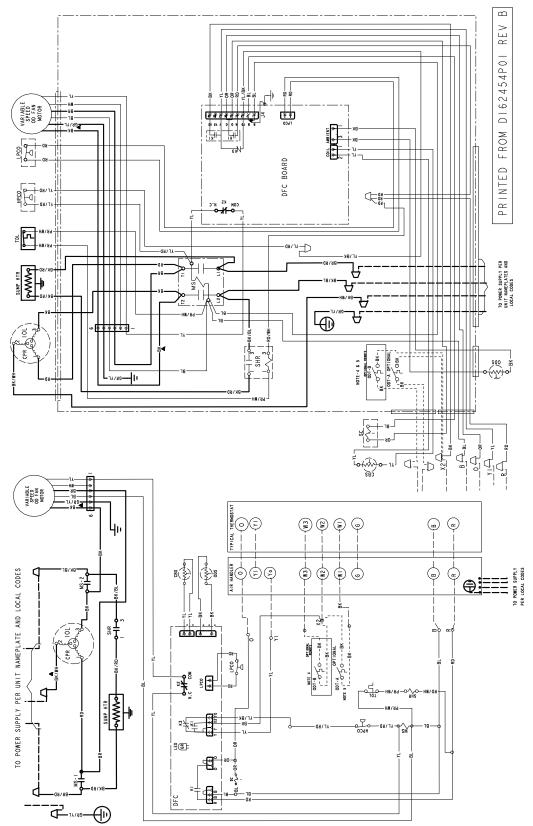




Figure 5. Legends and Warnings

NOTES:

- I. 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, IF ODT-B IS NOT USED, ADD JUMPER BETWEEN W2 AND W3 AT AIR HANDLER, IF USED, ODT-B MUST BE MOUNTED REMOTE OF CONTROL BOX IN AN APPROVED WEATHERPROOF ENCLOSURE
- 5. IF ODT-A IS NOT USED, ADD JUMPER BETWEEN WI AND W2 AT AIR HANDLER



	DESIGN SUBCOOLING (°F)									
LIQUID										
TEMP	8	9	10	11	12	13	14			
(°F)	LIQ	UID	GAG	E PRI	ESSL	RE (PSI)			
55	170	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			

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

▲NOTE:

MATERIAL: WHITE POLYPROPYLENE SUITABLE FOR USE IN OUTDOOR ENVIRONMENT. ADHESIVE: PRESSURE SENSTIVE ADHESIVE WITH RELEASE PAPER SUITABLE FOR OUTDOOR APPLICATION ON PAINTED OR GALVANIZED SHEET METAL SURFACES

ACAUTION

UNIT TERMINALS ARE NOT DESIGNED

Failure to do so may cause damage

TO ACCEPT OTHER TYPES OF CONDUCTORS.

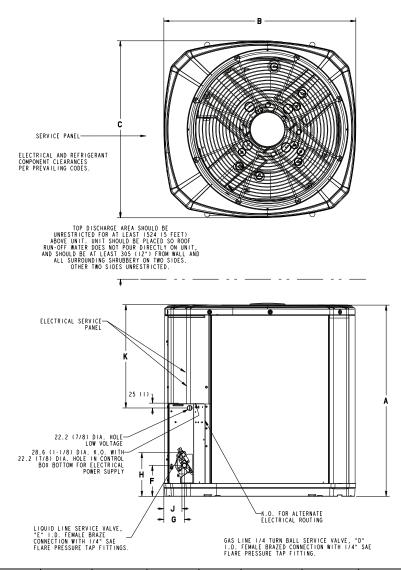
USE COPPER CONDUCTORS ONLY!

to the equipment.

SIZE: 6 1/2" X 11"



Outline Drawing



Model	Base	Α	В	С	D	Е	F	G	н	J	к
5TWA4036- A3000A	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)
5TWA4042- A3000A	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)
5TWA4048- A3000A	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)
5TWA4060- A3000A	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)
5TWA4036- A4000A	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)
5TWA4042- A4000A	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)
5TWA4048- A4000A	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)
5TWA4060- A4000A	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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