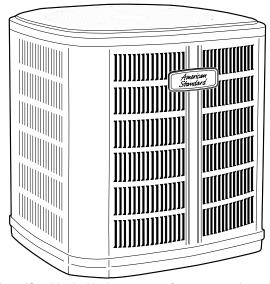


Product Data

Split System Cooling

5A7A4018A1000A 5A7A4024A1000A 5A7A4030A1000A/B 5A7A4036A1000A/B 5A7A4042A1000A 5A7A4048A1000A/B 5A7A4060A1000A/B



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



Product Specifications

	1	T	1		
Model No. (a)	5A7A4018A1000A	5A7A4024A1000A	5A7A4030A10000A/B	5A7A4036A1000A/B	
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	9	14	15/17	18	
BR. CIR. PROT. RTG MAX. (AMPS)	20	25	25	30	
COMPRESSOR	DURATION® - SCROLL	DURATION® - SCROLL	DURATION® - SCROLL	DURATION® - SCROLL	
RL AMPS - LR AMPS	6.9 - 45	10.3 - 60	12.5 - 67 / 12.7 - 76	13.5 - 75 / 13.5 - 83	
Outdoor Fan FL AMPS	0.71	0.71	0.85	0.85	
Fan HP	1/8	1/8	1/8	1/8	
Fan Dia (inches)	23	23	23	23	
Coil	SPINE FIN™	SPINE FIN™	SPINE FIN™	SPINE FIN™	
Refrigerant R-454B	3 LBS., 12 OZ	3 LBS., 10 OZ	3 LBS., 8 OZ	3 LBS., 8 OZ	
VALVE CONNECTION SIZE - IN. O.D. GAS	3/4	3/4	3/4	3/4	
VALVE CONNECTION SIZE - IN. O.D. LIQ	5/16	5/16	5/16	5/16	
LINE SIZE - IN. O.D. GAS (c)	3/4	3/4	3/4	7/8	
LINE SIZE - IN. O.D. LIQ.	5/16	5/16	5/16	5/16	
Charge Spec. Subcooling	10°F	10°F	10°F	10°F	
Dimensions H x W X D Crated (IN.)	42 x 30 x 33	38 x 30 x 33	42 x 30 x 33	38 x 30 x 33	
Weight - Shipping (lbs.)	220	183	220	183	
Weight - Net (lbs.)	184	156	184	156	
Optional Accessories:				1	
Anti-short Cycle Timer	TAYASCT501A	TAYASCT501A	TAYASCT501A	TAYASCT501A	
Evaporator Defrost Control	AY28X079	AY28X079	AY28X079	AY28X079	
Rubber Isolator Kit	BAYISLT101	BAYISLT101	BAYISLT101	BAYISLT101	
Extreme Condition Mount Kit	BAYECMT023	BAYECMT023	BAYECMT023	BAYECMT023	
Start Kit	BAYKSKT263	BAYKSKT263	BAYKSKT263	BAYKSKT263	
Crankcase Heater Kit	BAYCCHT302	BAYCCHT302	BAYCCHT302	BAYCCHT302	
Seacoast Kit	BAYSEAC001	BAYSEAC001	BAYSEAC001	BAYSEAC001	
Low Ambient Kit	BAYLOAM103	BAYLOAM103	BAYLOAM103	BAYLOAM103	
Service Valve Panel Cover	TAYSVPANL0032AA	TAYSVPANL0032AA	TAYSVPANL0044AA	TAYSVPANL0044AA	
Refrigerant Lineset (d)		•	•	•	

⁽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.

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 Manual for Small Split Cooling and Heat Pump Systems Application Guide (SS-APG006*-EN) for long line sets or specialty applications (xx denotes latest revision).

⁽d) 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)	5A7A4042A1000A/B	5A7A4048A1000A/B	5A7A4060A1000A/B		
POWER CONNS V/PH/HZ (b)	208/230/1/60	208/230/1/60	208/230/1/60		
MIN. BRCH. CIR. AMPACITY	21	23 / 26	28 / 30		
BR. CIR. PROT. RTG MAX. (AMPS)	30	35 / 45	50		
COMPRESSOR	DURATION® - SCROLL	DURATION® - SCROLL	DURATION® - SCROLL		
RL AMPS - LR AMPS	14.7 - 109	17.3 - 126 / 19.6 - 118	21.8 - 143 / 23.4 - 134		
Outdoor Fan FL AMPS	1.05	1.05	0.93		
Fan HP	1/5	1/5	1/5		
Fan Dia (inches)	27.5	27.5	27.5		
Coil	SPINE FIN™	SPINE FIN™	SPINE FIN™		
Refrigerant R-454B	5 LBS., 1 OZ	6 LBS., 10 OZ	5 LBS., 15 OZ		
VALVE CONNECTION SIZE - IN. O.D. GAS	7/8	7/8	7/8		
VALVE CONNECTION SIZE - IN. O.D. LIQ	5/16	5/16	5/16		
LINE SIZE - IN. O.D. GAS (c)	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.)	42.5 x 35 x 38	50.5 x 35 x 38	50.5 x 35 x 38		
Weight - Shipping (lbs.)	246	307	302		
Weight - Net (lbs.)	212	257	252		
Optional Accessories:		1	l		
Anti-short Cycle Timer	TAYASCT501A	TAYASCT501A	TAYASCT501A		
Evaporator Defrost Control	AY28X079	AY28X079	AY28X079		
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 (d)					

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

Calculated in accordance with N.E.C. Only use HACR circuit breakers or fuses.

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 Manual for Small Split Cooling and Heat Pump Systems Application Guide (SS-APG006*-EN) for long line sets or specialty applications (xx denotes latest revision). 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

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	
5A7A4018A	73	79	69	67	70	70	64	59	53	
5A7A4024A	71	78	72	69	68	66	61	58	53	
5A7A4030A	73	79	69	67	70	70	64	59	53	
5A7A4036A	71	78	72	69	68	66	61	58	53	
5A7A4042A	71	78	72	69	68	66	61	58	53	
5A7A4048A	71	81	75	71	70	68	63	58	53	
5A7A4060A	71	81	75	71	70	68	63	58	53	

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 start-up. 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.

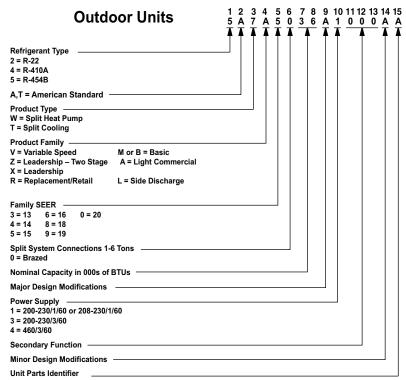
AHRI Standard Capacity Rating Conditions

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.

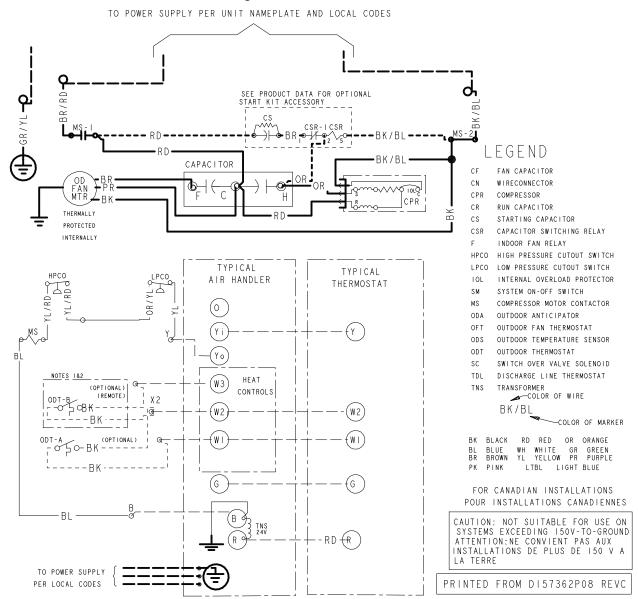
Model Nomenclature



American Standard & HEATING & AIR CONDITIONING

Schematic Diagrams

Figure 1. 018A - 048A Models



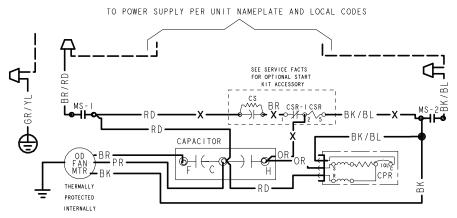
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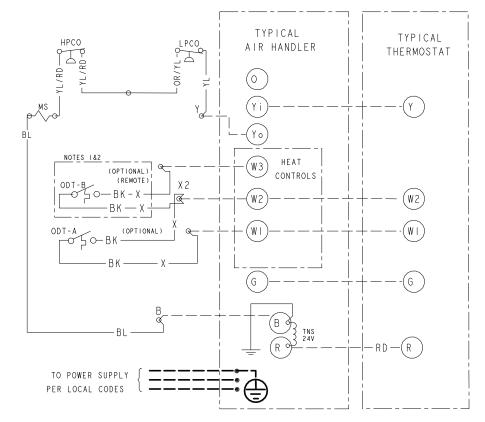
Schematic Diagrams

Figure 2. 018A - 048A Models HPCO NOTES: I. IF ODT-B IS NOT USED. ADD JUMPER BETWEEN 2mg W2 & W3 AT AIR HANDLER. IF USED, ODT-B THERMALLY MUST BE MOUNTED REMOTE OF CONTROL BOX IN PROTECTED CPR AN APPROVED WEATHER PROOF ENCLOSURE. INTERNALLY 2. IF ODT-A IS NOT USED. ADD JUMPER BETWEEN WI & W2 AT AIR HANDLER. 3. LOW VOLTAGE {24 V} FIELD WIRING MUST BE 18 AWG MIN. ▲ 4. FIELD GROUND MUST BE ATTACHED TO THE GROUND LUG ON THE RUNTRU AND AMERISTAR UNITS. ▲ 5. GROUND CONNECTION FOR TRANE/ AMERICAN STANDARD ONLY. LEGEND CAPACITOR 24 V LINE V FACTORY WIRING 24 V FIELD LINE V WIRING MAGNETIC COIL GROUND JUNCTION MS L CAPACITOR WIRE NUT OR SEE PRODUCT DATA FOR OPTIONAL START KIT ACCESSORY TERMINAL TRANSFORMER TERMINAL BLOCK/BOARD RELAY CONTACT (N.O) RELAY CONTACT (N.C) CSR ₽OR/YL-THERMISTOR ~~~ TEMP ACTUATED SWITCH INTERNAL OVERLOAD PROTECTION PRESSURE ACTUATED SWITCH NOTES 182 ____ RESISTER OR HEATING ELEMENT (REMOTE) ODT-B OMOTOR WINDING ₽B POL.PLUG FEMALE HOUSING (MALE TERMINALS) Вĸ POL. PLUG MALE HOUSING (FEMALE TERMINALS) ODT-40 (OPTIONAL)

Schematic Diagrams

Figure 3. 060A Models





LEGEND

CF FAN CAPACITOR CN WIRE CONNECTOR CPR COMPRESSOR CR RUN CAPACITOR STARTING CAPACITOR CS CAPACITOR SWITCHING RELAY OUTDOOR THERMOSTAT HPCO HIGH PRESSURE CUTOUT SWITCH LPCO LOW PRESSURE CUTOUT SWITCH COMPRESSOR MOTOR CONTACTOR MS TNS TRANSFORMER INTERNAL OVERLOAD PROTECTOR 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 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

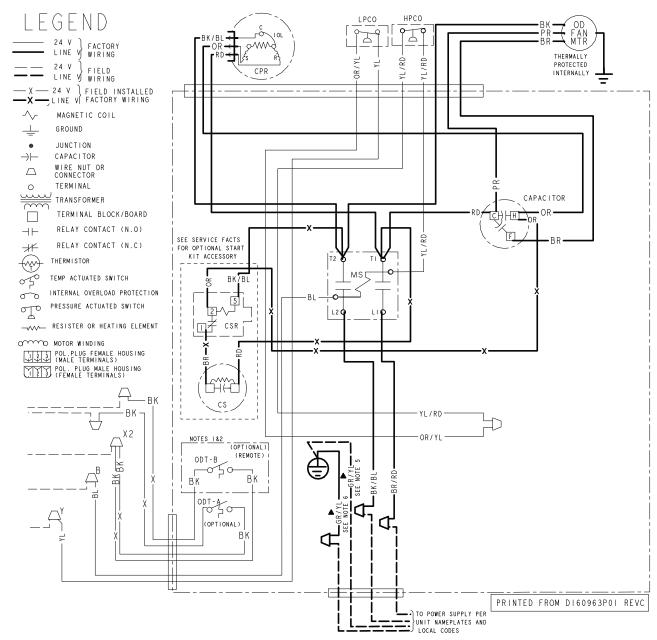
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Schematic Diagrams

Figure 4. 060A Models

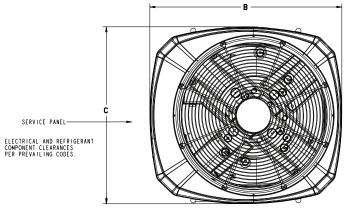
NOTES:

- I. IF ODT-B IS NOT USED. ADD JUMPER BETWEEN W2 & W3 AT AIR HANDLER. IF USED, ODT-B MUST BE MOUNTED REMOTE OF CONTROL BOX IN AN APPROVED WEATHER PROOF ENCLOSURE.
- 2. IF ODT-A IS NOT USED. ADD JUMPER BETWEEN WI & W2 AT AIR HANDLER.
- 3. LOW VOLTAGE (24 V) FIELD WIRING MUST BE 18 AWG MINIMUM.
- 4. USE COPPER CONDUCTORS ONLY!
- ▲5. FIELD GROUND MUST BE ATTACHED TO THE GROUND LUG ON THE RUNTRU AND AMERISTAR UNITS.
- ▲6. GROUND CONNECTION FOR TRANE/ AMERICAN STANDARD ONLY.

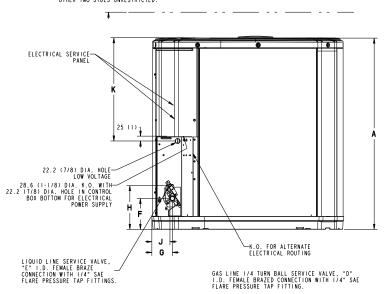


American Standard & HEATING & AIR CONDITIONING

Outline Drawing



TOP DISCHARGE AREA SHOULD BE
UNRESTRICTED FOR AT LEAST 1524 (5 FET)
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 MEMBEREY ON TWO SIDES.
OTHER TWO SIDES UNRESTRICTED.



Model	Base	Α	В	С	D	Е	F	G	Н	J	K
5A7A4018A	3	933 (36-3/4)	829 (32-5/8)	756 (29-3/4)	3/4	5/16	143 (5-5/8)	92 (3-5/8)	210 (8-1/4)	79 (3-1/8)	508 (20)
5A7A4024A	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)
5A7A4030A	3	933 (36-3/4)	829 (32-5/8)	756 (29-3/4)	3/4	5/16	143 (5-5/8)	92 (3-5/8)	210 (8-1/4)	79 (3-1/8)	508 (20)
5A7A4036A	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)
5A7A4042A	4	943 (37-1/8)	946 (37-1/4)	870 (34-1/4)	7/8	5/16	143 (5-5/8)	98 (3-7/8)	219 (8-5/8)	86 (3-3/8)	508 (20)
5A7A4048A	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)
5A7A4060A	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 $55^{\circ}F$. The addition of an evaporator defrost control permits operation to $40^{\circ}F$. The addition of an evaporator defrost control with TXV permits low ambient cooling to $30^{\circ}F$.

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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The manufacturer 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.

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