

TAC Series Air Conditioner

R454B

Up to 15.2 SEER2
Cooling capacity: 18-60 kBtu/h



Contents:

1 PRODUCT LINEUP.....	2
2 NOMENCLATURE.....	2
3 SPECIFICATIONS.....	3
4 OCTAVE BAND LEVELS.....	5
6 WIRING DIAGRAMS.....	6




Standard Features:

- Eco-friendly R454B refrigerant with low GWP value.
- Energy-efficient compressor.
- Equipped with thermal overload protection.
- High quality condenser with inner-groove copper tube and aluminum fin.
- Service valves with sweat connections and easy-access gauge ports.
- Factory-installed high-pressure switch.
- AHRI certified and ETL listed.
- Filter drier included as accessory.

Cabinet Features:

- Compact design allows for ease of installation, clearance, durability, and maneuverability.
- Powder-painted galvanized steel cabinet chassis.
- Protective steel louvered coil guard.
- Steel wire axial fan guard
- ECM fan motor and unique blade style allowing for smooth discharge air and quieter operation.

1 Product lineup

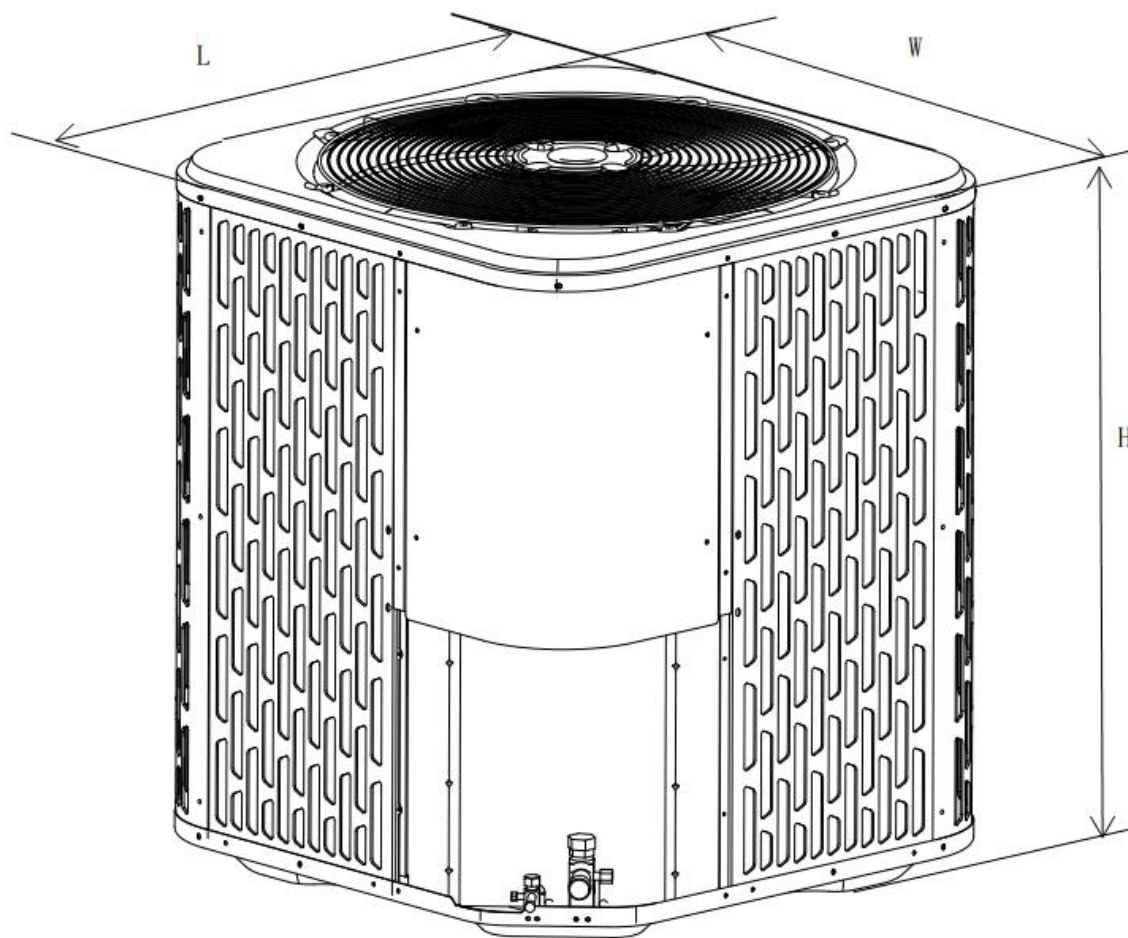
Model	TAC5018A1000A TAC5024A1000A TAC5030A1000A TAC5036A1000A	TAC5042A1000A TAC5048A1000A TAC5060A1000A TAC5061A1000A
Power supply	208/230V-1Ph-60Hz	
Appearance		

2 Specifications

	TAC5018A1000A	TAC5024A1000A	TAC5030A1000A	TAC5036A1000A
NOMINAL CAPACITY				
Cooling (BTU/h)	17,800	23,800	28,000	33,600
ELECTRICAL DATA				
Voltage / Phase (60 Hz)	208/230V-1Ph	208/230V-1Ph	208/230V-1Ph	208/230V-1Ph
Min. / Max. Voltage (V)	187/253	187/253	187/253	187/253
Min. Circuit Amps (MCA) (A)	11.4	15.3	16.4	21.9
Max. Overcurrent Protection (MOP) (A)	19.9	26.5	28.4	38.3
COMPRESSOR				
Type	Rotary	Rotary	Rotary	Scroll
Stage	Single	Single	Single	Single
Rated Load Amps (RLA) (A)	8.4	11.2	12.1	16.3
Locked Rotor Amps (LRA) (A)	40	55	55	86
Crankcase Heater	No	No	No	No
CONDENSER COIL				
Type	Tube & Fin	Tube & Fin	Tube & Fin	Tube & Fin
Tube Size (O.D.) (in.)	3/16	3/16	3/16	3/16
FAN MOTOR				
Motor Type	ECM	ECM	ECM	ECM
Capacitor (uF)	/	/	/	/
Horsepower (HP)	1/6	1/6	1/6	1/3
Full Load Amps (FLA) (A)	0.9	1.3	1.2	1.5
REFRIGERATION SYSTEM				
Liquid Valve Size (O.D.) (in.)	3/8	3/8	3/8	3/8
Suction Valve Size (O.D.) (in.)	3/4	3/4	3/4	3/4
Liquid Line Size ("O.D.) (in.)	3/8	3/8	3/8	3/8
Suction Line Size ("O.D.) (in.)	3/4	3/4	3/4	3/4
Refrigerant Charge (lbs. - oz.)	4 lbs. 6 OZ.	4 lbs. 14 OZ.	6 lbs. 6 OZ.	5 lbs. 1 OZ.
SOUND POWER (dB(A))	73	75	75	77
OPERATION RANGE				
Cooling (°C)	12.7~48.9	12.7~48.9	12.7~48.9	12.7~48.9
Cooling (°F)	55~120	55~120	55~120	55~120

	TAC5042A1000A	TAC5048A1000A	TAC5060A1000A	TAC5061A1000A
NOMINAL CAPACITY				
Cooling (BTU/h)	41,000	45,000	54,000	55,000
ELECTRICAL DATA				
Voltage / Phase (60 Hz)	208/230V-1Ph	208/230V-1Ph	208/230V-1Ph	208/230V-1Ph
Min. / Max. Voltage (V)	187/253	187/253	187/253	187/253
Min. Circuit Amps (MCA) (A)	24.5	28.3	36.8	39.6
Max. Overcurrent Protection (MOP) (A)	42.6	49.3	64.5	69.8
COMPRESSOR				
Type	Scroll	Scroll	Scroll	Scroll
Stage	Single	Single	Single	Two-stage
Rated Load Amps (RLA) (A)	18.2	21.0	27.8	30.2
Locked Rotor Amps (LRA) (A)	96	95	125	123
Crankcase Heater	No	No	No	No
CONDENSER COIL				
Type	Tube & Fin	Tube & Fin	Tube & Fin	Tube & Fin
Tube Size (O.D.) (in.)	3/16	3/16	3/16	9/32
FAN MOTOR				
Motor Type	ECM	ECM	ECM	ECM
Capacitor (uF)	/	/	/	/
Horsepower (HP)	1/3	1/3	1/3	1/3
Full Load Amps (FLA) (A)	1.7	2.0	2.0	1.8
REFRIGERATION SYSTEM				
Liquid Valve Size (O.D.) (in.)	3/8	3/8	3/8	3/8
Suction Valve Size (O.D.) (in.)	7/8	7/8	7/8	7/8
Liquid Line Size ("O.D.) (in.)	3/8	3/8	3/8	3/8
Suction Line Size ("O.D.) (in.)	7/8	7/8	1-1/8	1-1/8
Refrigerant Charge (lbs. - oz.)	5 lbs. 12 OZ.	6 lbs. 4 OZ.	6 lbs. 0 OZ.	9 lbs. 14 OZ.
SOUND POWER (dB(A))	78	78	80	80
OPERATION RANGE				
Cooling (°C)	12.7~48.9	12.7~48.9	12.7~48.9	12.7~48.9
Cooling (°F)	55~120	55~120	55~120	55~120

3 Dimensions



Model Size	Unit Width "W" in. [mm]	Unit Height "H" in. [mm]	Unit Length "L" in. [mm]	Packing (W*H*D) in. [mm]	Unit Weight (lbs.[kg])
18	23-5/8 [600]	24-15/16 [633]	23-5/8 [600]	24-7/10 × 26-1/4 × 24-7/10 [628 × 667 × 628]	117 [53]
24	28 [710]	24-15/16 [633]	28 [710]	29 × 26-1/4 × 29 [738 × 667 × 738]	132 [60]
30	28 [710]	33-3/16 [843]	28 [710]	29 × 34-1/2 × 29 [738 × 877 × 738]	161 [73]
36	29-1/8 [740]	24-15/16 [633]	29-1/8 [740]	30-1/5 × 26-1/4 × 30-1/5 [768 × 667 × 768]	154 [70]
42	29-1/8 [740]	33-3/16 [843]	29-1/8 [740]	30-1/5 × 34-1/2 × 30-1/5 [768 × 877 × 768]	174 [79]
48	28 [710]	33-3/16 [843]	28 [710]	29 × 34-1/2 × 29 [738 × 877 × 738]	187 [85]
60	29-1/8 [740]	33-3/16 [843]	29-1/8 [740]	30-1/5 × 34-1/2 × 30-1/5 [768 × 877 × 768]	212 [96]
61	29-1/8 [740]	33-3/16 [843]	29-1/8 [740]	30-1/5 × 34-1/2 × 30-1/5 [768 × 877 × 768]	212 [96]

4 Wiring Diagram

