

QUICK REFERENCE DATA

*SA1BG4MV Series Residential Split System Air Conditioner

20 SEER

MODEL NUMBER: SA1BG4MVRN		24K	36K	48K	60K	
ELECTRICAL DATA	Volts-Cycles-Phase ⁽¹⁾	208/230-60-1				
	Total Amps	11.9	17.3	18.9	28.8	
	Delay Fuse Max. ⁽²⁾	20	35	35	60	
	Min. Circuit Ampacity	14.2	21	23	35.1	
	Field Control Wiring Connections (24 vac from thermostat/indoor side)	R, C, Y1, Y2				
CONDENSER DATA	Coil	Area (ft ²)	13.3	20.4	24.8	24.8
		Rows - FPI	1-23	1-18	1-23	1-23
		Tube	MC	MC	MC	MC
	Fan Motor	Type	Brushless DC			
		Amps	2.6	2.6	2.6	3.8
		HP	1/3	1/3	1/3	1/2
	Compressor Data	RLA	9.3	14.7	16.3	25
		LRA	N/A	N/A	N/A	N/A
	Service Valves	Liquid Side	3/8"	3/8"	3/8"	3/8"
		Vapor Side	3/4"	7/8"	7/8"	7/8"
Installation Refrigerant Vapor Line Size (All liquid lines 3/8" OD)	0 - 24 ft. equiv.	3/4"	7/8"	7/8"	7/8"	
	25 - 39 ft. equiv.	3/4"	7/8"	1-1/8"	1-1/8"	
	40 - 75 ft. equiv.	7/8"	1-1/8"	1-1/8"	1-1/8"	
	75 - 100 ft. equiv.	1-1/8"	1-1/8"	1-1/8"	1-1/8"	
Refrigerant Type	R-410A					
Refrigerant Charge (oz.), 15 ft. line set (factory charge)	71 ⁽³⁾	80 ⁽³⁾	98 ⁽³⁾	111 ⁽³⁾		
Weight Approximate (lbs.)	As shipped	149	192	223	235	
	Net	165	215	248	260	

(1) Operating Voltage Range: 187v min. — 253v max.

(2) HACR Type Circuit Breakers may be used.

(3) Additional charge required for line sets above 15 feet. Values based on vapor line as follows with 3/8" liquid line.

(a) 3/4" = 0.6 oz. per additional foot.

(b) 7/8" = 0.7 oz. per additional foot.

(c) 1 1/8" = 0.8 oz. per additional foot.

Table 1. Electrical Specifications & Physical Data

WIRE GAUGE	RECOMMENDED MAXIMUM WIRE LENGTH (FT) FROM UNIT TO THERMOSTAT
22	45
20	70
18	115
16	180

Table 2. Control Wiring (24V)

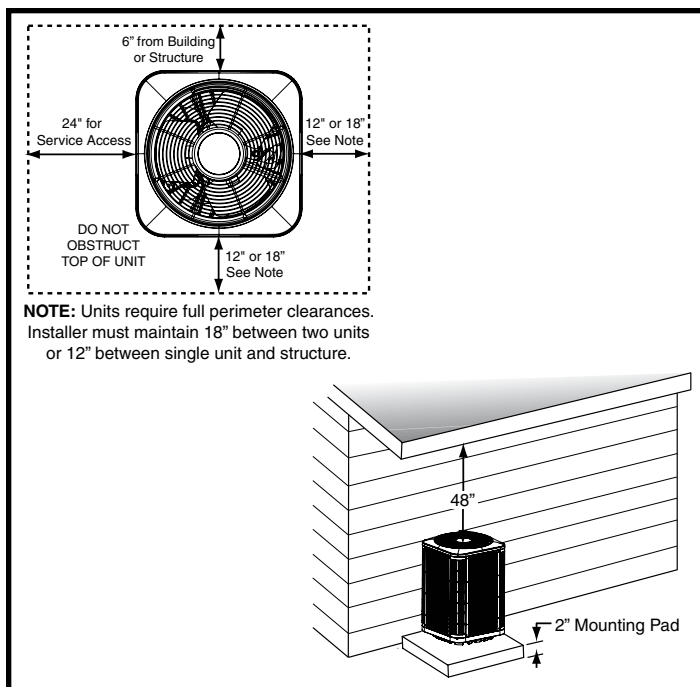
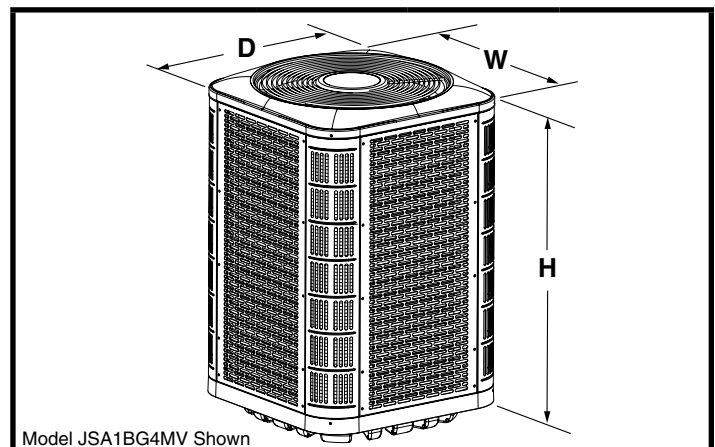


Figure 1. Clearance Requirements



MODEL NUMBER	HEIGHT (H)	WIDTH (W)	DEPTH (D)
*SA1BG4MVRN24K	36 1/2"	23 3/4"	23 3/4"
*SA1BG4MVRN36K	37 1/4"	31 3/4"	31 3/4"
*SA1BG4MVRN48K	45 1/4"	31 3/4"	31 3/4"
*SA1BG4MVRN60K	45 1/4"	31 3/4"	31 3/4"

Table 3. Unit Dimensions

Instructions:

1. Find the column for the model of outdoor unit that is being installed.
2. Find the row for the model of the indoor unit that is being installed.
3. Find the cell in the table in which this row and column meet. In this cell the appropriate TXV and charge addition for this match are listed.

MODEL NUMBER: *SA1BG4MVRN		24K	36K	48K	60K
OUTDOOR UNIT FACTORY CHARGE (OZ.):		71	80	98	111
MODELS	INDOOR COIL TXV (AS-BUILT)	REQUIRED INDOOR TXV OR TXV KIT CHARGE ADDITION (OZ) / RATED CFM (4)			
B6VM					
B6VMMX24K-B	669564	669564 (0 / 810)	--	--	--
B6VMMX36K-B	669566	--	669566 (0 / 1050)	--	--
B6VMMX48K-C	669568	--	--	669568 (0 / 1480)	--
B6VMMX60K-C	669578	--	--	--	669578 (0 / 1675)
C7-X					
C7B(A,H)MX24(C,U)-B	669681	669681 (0 / 810)	--	--	--
C7B(A,H)MX36(C,U)-B	669683	--	669683 (0 / 1050)	--	--
C7B(A,H)MX36(C,U)-C	669683	--	669683 (0 / 1050)	--	--
C7B(A,H)MX48(C,U)-C	669852	--	--	669852 (0 / 1480)	--
C7B(A,H)MX48(C,U)-D	669852	--	--	669852 (0 / 1480)	--
C7B(A,H)MX60(C,U)-C	669686	--	--	--	669686 (0 / 1675)
C7B(A,H)MX60(C,U)-D	669686	--	--	--	669686 (0 / 1675)
C7-0 + TXV					
C7B(A,H)M018(C,U)-B+TXV	0.055	920668A (0/810)			
C7B(A,H)M042(C,U)-B+TXV	0.071		920670A (0/1050)		
C7B(A,H)M048(C,U)-C+TXV	0.067		920670A (0/1050)		
C7B(A,H)M048(C,U)-C+TXV	0.077			920672A (0/1480)	
C7B(A,H)M048(C,U)-D+TXV	0.077			920672A (0/1480)	
C7B(A,H)M060(C,U)-C+TXV	0.083				920673A (0/1675)
C7B(A,H)M060(C,U)-D+TXV	0.083				920673A (0/1675)

NOTES:

⁽⁴⁾ Charge addition is for coil change only. For line sets longer than 15 feet see Installation Instructions.
CFM refers to blower flow at rating point. Refer to indoor unit air flow setting information in the Installation Instructions for that unit.

Table 4. TXV / Charge Addition (Oz)

THE CHARGE ADDITIONS PROVIDED IN THIS DOCUMENT ARE ESTIMATES BASED ON TEST DATA AND SHOULD ONLY BE A STARTING POINT. AFTER FOLLOWING THESE DIRECTIONS PLEASE ADJUST THE REFRIGERANT AMOUNT BASED ON THE APPROPRIATE CHARGING TABLES OR CHARTS IN THE INSTALLATION INSTRUCTIONS OR CHARGING LABEL.

