

QUICK REFERENCE DATA

*SA1BE4M1 SERIES RESIDENTIAL SPLIT SYSTEM AIR CONDITIONER

14 SEER

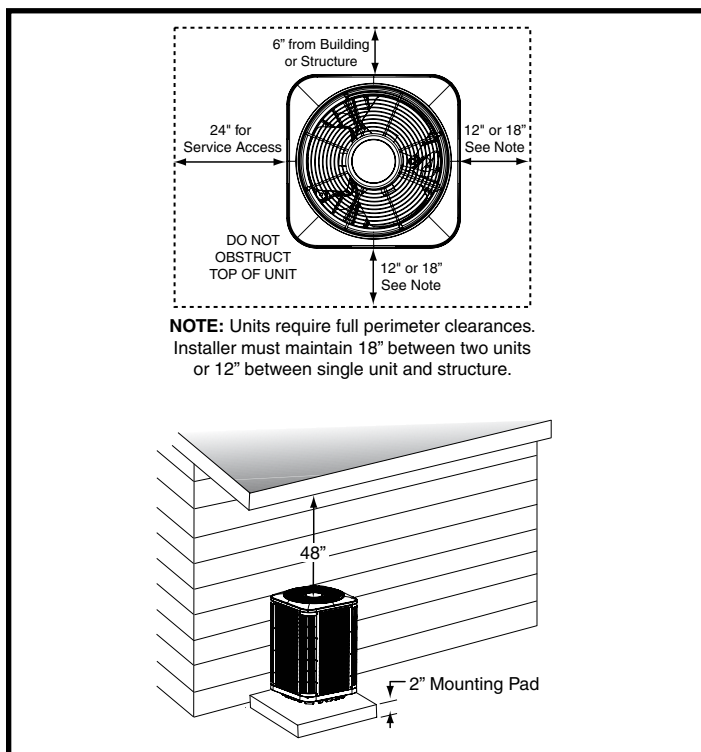
MODEL NUMBER: *SA1BE4M1SN		18K	24K	30K	36K	42K	48K	60K	
ELECTRICAL DATA	Volts-Cycles-Phase (1)	208/230-60-1							
	Total Amps	10.0	14.4	15.0	15.1	19.4	21.3	29.0	
	Delay Fuse Max. (2)	20	30	30	30	40	45	60	
	Min. Circuit Ampacity	12.4	17.7	18.5	18.6	23.9	26.3	35.6	
CONDENSER DATA	Coil	Area	10.0	11.7	15.2	20.3	22.8	22.8	25.4
		Rows-FPI	1-23	1-23	1-18	1-18	1-18	1-18	1-23
		Tube Dia	MC						
	Fan Motor	Type	PSC						BLDC
		Amps	0.9	0.9	0.9	1.0	1.5	1.5	2.6
		HP	0.13	0.13	0.13	0.20	0.25	0.25	0.33
	Compressor Data	RLA	9.3	13.4	14.1	14.1	17.9	19.8	26.4
LRA		56.6	58.3	73.0	77.0	112.0	109.0	134.0	
RECOMMENDED REFRIGERANT SUCTION LINE O.D.* NOTE: Liquid line is 3/8" O.D. for entire length.		0-24 ft.	3/4"	3/4"	3/4"	3/4"	7/8"	7/8"	
		25-39 ft.	3/4"	3/4"	3/4"	7/8" (3)	7/8"	7/8"	1-1/8" (4)
		40-75 ft.	3/4"	3/4"	3/4"	7/8" (3)	7/8"	7/8"	1-1/8" (4)
REFRIGERANT CHARGE: R-410A in ounces for outdoor unit, indoor unit and 15' line set. (5)		34	39	48	57	66	96	81	
APPROXIMATE WEIGHT (LBS.)		Net	181	123	147	166	198	199	212
		Ship	195	138	168	189	222	223	236

- (1) Operating Voltage Range: 187v min. — 253v max.
 - (2) HACR Type Circuit Breakers may be used.
 - (3) Requires 7/8" to 3/4" reducer from line to unit.
 - (4) Requires 7/8" to 1-1/8" reducer from line to unit.
 - (5) Additional charge for line sets above 15 feet. Values based on suction 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.
- * For other line set dimensions, refer to the Application Guidelines for Refrigerant Lines Addendum.

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

Table 1. Electrical Specifications & Physical Data

Table 2. Control Wiring (24V)



Model *SA1BE4M1 Shown

MODEL NUMBER	HEIGHT (H)	WIDTH (W)	DEPTH (D)
*SA1BE4M1SN18K	28 1/2"	23 3/4"	23 3/4"
*SA1BE4M1SN24K	32 1/2"	23 3/4"	23 3/4"
*SA1BE4M1SN30K	29 1/4"	31 3/4"	31 3/4"
*SA1BE4M1SN36K	37 1/4"	31 3/4"	31 3/4"
*SA1BE4M1SN42K	41 1/4"	31 3/4"	31 3/4"
*SA1BE4M1SN48K	41 1/4"	31 3/4"	31 3/4"
*SA1BE4M1SN60K	45 1/4"	31 3/4"	31 3/4"

Figure 1. Clearance Requirements

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 orifice / TXV and charge addition for this match are listed. If the text in this cell is **BOLD**, then a change of orifice is necessary.
4. If a change in restrictor is necessary, then the appropriate restrictor will already be supplied with the outdoor unit.

Examples:

- For the *SA1BE4M1SN18K / B6EMMX24K-A match, the appropriate TXV is the 669564 and no additional charge needs to be added. (NO CHANGES ARE NECESSARY)
- For the *SA1BE4M1SN42K / C7B(A,H)M03642(C,U)-B + TXV match, the 920671A TXV Kit is needed as well as an additional 2 ounces of charge. (TXV KIT AND CHARGE ADJUSTMENT NEEDED)

MODEL NUMBER: *SA1BE4M1SN		18K	24K	30K	36K	42K	48K	60K
ID RESTRICTOR SUPPLIED WITH OD UNIT:		0.051	0.057, 0.058	0.062	0.068, 0.069	--	0.077	--
OUTDOOR UNIT BOM CHARGE (OZ.)		34	39	48	57	66	96	81
MODELS	SUPPLIED WITH ID	REQUIRED RESTRICTOR OR TXV (CHARGE ADDITION (OZ) / RATED AIRFLOW -SCFM)						
B6BM-X								
B6BM-X24K-A	669564	669564 (18 / 600)	669564 (23 / 705)	--	--	--	--	--
B6BM-X24K-B	669564	669564 (18 / 600)	669564 (23 / 705)	--	--	--	--	--
B6BM-X30K-A	669565	--	--	669565 (21 / 875)	--	--	--	--
B6BM-X30K-B	669565	--	--	669565 (21 / 875)	--	--	--	--
B6BM-X36K-B	669566	--	--	--	669566 (32 / 905)	--	--	--
B6BM-X42K-B	669567	--	--	--	--	669567 (19 / 1225)	--	--
B6BM-X48K-C	669568	--	--	--	--	--	669568 (22 / 1450)	--
B6BM-X60K-C	669578	--	--	--	--	--	--	669578 (29 / 1660)
B6BMM0								
B6BMM024K-A	0.055	0.051 (18 / 660)	0.058 (14 / 800)	--	--	--	--	--
B6BMM024K-B	0.055	0.051 (18 / 660)	0.058 (14 / 800)	--	--	--	--	--
B6BMM030K-A	0.062	--	--	0.062 (3 / 895)	--	--	--	--
B6BMM030K-B	0.062	--	--	0.062 (3 / 895)	--	--	--	--
B6BMM042K-B	0.074	--	--	--	0.069 (11 / 1225)	0.074 (13 / 1260)	--	--
B6BMM060K-C	0.087	--	--	--	--	--	0.077 (-15 / 1440) ‡	0.087 (8 / 1635)
B6BMMX								
B6BMMX24K-A	669564	669564 (0 / 600)	669564 (0 / 715)	--	--	--	--	--
B6BMMX24K-B	669564	--	669564 (2 / 715)	--	--	--	--	--
B6BMMX30K-A	669565	--	--	669565 (0 / 945)	--	--	--	--
B6BMMX30K-B	669565	--	--	669565 (0 / 1015)	--	--	--	--
B6BMMX36K-B	669566	--	--	--	669566 (13 / 1190)	--	--	--
B6BMMX48K-C	669568	--	--	--	--	669568 (22 / 1375)	669568 (0 / 1670)	--
B6BMMX60K-C	669578	--	--	--	--	--	--	669578 (3 / 1545)

NOTES:

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- Part numbers beginning with 669*** are TXV part numbers and numbers listed as 0. *** are restrictor diameters.

**Table 4. REQUIRED RESTRICTOR OR TXV
(CHARGE ADDITION (OZ) / RATED AIRFLOW -SCFM)**

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.

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Examples:

- For the *SA1BE4M1SN18K / B6EMMX24K-A match, the appropriate TXV is the 669564 and no additional charge needs to be added. (NO CHANGES ARE NECESSARY)
- For the *SA1BE4M1SN42K / C7B(A,H)M03642(C,U)-B + TXV match, the 920671A TXV Kit is needed as well as an additional 2 ounces of charge. (TXV KIT AND CHARGE ADJUSTMENT NEEDED)

MODEL NUMBER: *SA1BE4M1SN		18K	24K	30K	36K	42K	48K	60K
ID RESTRICTOR SUPPLIED WITH OD UNIT:		0.051	0.057, 0.058	0.062	0.068, 0.069	--	0.077	--
OUTDOOR UNIT BOM CHARGE (OZ.)		34	39	48	57	66	96	81
MODELS	SUPPLIED WITH ID	REQUIRED RESTRICTOR OR TXV (CHARGE ADDITION (OZ) / RATED AIRFLOW -SCFM)						
B6BW								
B6BW-030K(*)	0.060	--	0.057 (18 / 850)	0.060 (15 / 880)	--	--	--	--
B6BW-036K(*)	0.069	--	--	--	0.068 (16 / 1185)	--	--	--
B6EM								
B6EMMX24K-A	669564	669564 (0 / 540)	669564 (2 / 770)	--	--	--	--	--
B6EMMX24K-B	669564	669564 (0 / 540)	669564 (2 / 770)	--	--	--	--	--
B6EMMX30K-A	669565	--	--	669565 (0 / 1000)	--	--	--	--
B6EMMX30K-B	669565	--	--	669565 (0 / 1000)	--	--	--	--
B6EMMX36K-B	669566	--	--	--	669566 (9 / 1100)	--	--	--
B6EMMX42K-B	669567	--	--	--	--	669567 (0 / 1255)	--	--
B6EMMX48K-C	669852	--	--	--	--	--	669852 (0 / 1450)	--
B6EMMX60K-C	669578	--	--	--	--	--	--	669578 (3 / 1535)
B6EW								
B6EW-X18K	669564	669564 (2 / 550)	--	--	--	--	--	--
B6EW-X25K	669564	--	669564 (0 / 820)	--	--	--	--	--
B6EW-X30K	669565	--	--	669565 (-2 / 975) ‡	--	--	--	--
B6EW-X36K	669566	--	--	--	669566 (0 / 1070)	--	--	--
B6VM								
B6VMAX24K-A	669564	669564 (18 / 555)	669564 (22 / 750)	--	--	--	--	--
B6VMAX24K-B	669564	669564 (29 / 555)	669564 (33 / 750)	--	--	--	--	--
B6VMAX30K-A	669565	--	--	669565 (21 / 980)	--	--	--	--
B6VMAX30K-B	669565	--	669565 (23 / 750)	669565 (21 / 980)	--	--	--	--
B6VMAX36K-B	669566	--	--	--	669566 (32 / 1100)	--	--	--
B6VMAX42K-B	669567	--	--	--	--	669567 (19 / 1250)	--	--
B6VMAX48K-C	669568	--	--	--	--	669568 (24 / 1400)	669568 (22 / 1435)	--
B6VMAX60K-C	669578	--	--	--	--	--	--	669578 (29 / 1600)

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OUTDOOR UNIT BOM CHARGE (OZ.)		34	39	48	57	66	96	81
MODELS	SUPPLIED WITH ID	REQUIRED RESTRICTOR OR TXV (CHARGE ADDITION (OZ) / RATED AIRFLOW -SCFM)						
B6VMMX								
B6VMMX24K-A	669564	669564 (0 / 540)	669564 (2 / 770)	--	--	--	--	--
B6VMMX24K-B	669564	669564 (0 / 540)	669564 (2 / 770)	--	--	--	--	--
B6VMMX30K-A	669565	--	--	669565 (0 / 1000)	--	--	--	--
B6VMMX30K-B	669565	--	--	669565 (0 / 1000)	--	--	--	--
B6VMMX36K-B	669566	--	--	--	669566 (9 / 1100)	--	--	--
B6VMMX42K-B	669567	--	--	--	--	669567 (0 / 1255)	--	--
B6VMMX48K-C	669568	--	--	--	--	--	669852 (0 / 1450)	--
B6VMMX60K-C	669578	--	--	--	--	--	--	669578 (3 / 1535)
C6								
C6B(A,H)-X24(C,U)-A	669564	669564 (18 / 550)	669564 (26 / 770)	--	--	--	--	--
C6B(A,H)-X24(C,U)-B	669681	669681 (18 / 550)	669681 (26 / 770)	--	--	--	--	--
C6B(A,H)-X30(C,U)-A	669565	--	--	669565 (21 / 950)	--	--	--	--
C6B(A,H)-X30(C,U)-B	669682	--	--	669682 (21 / 950)	--	--	--	--
C6B(A,H)-X30(C,U)-C	669682	--	--	669682 (21 / 950)	--	--	--	--
C6B(A,H)-X36(C,U)-B	669683	--	--	--	669683 (32 / 1105)	--	--	--
C6B(A,H)-X36(C,U)-C	669683	--	--	--	669683 (32 / 1105)	--	--	--
C6B(A,H)-X42(C,U)-B	669684	--	--	--	--	669684 (26 / 1210)	--	--
C6B(A,H)-X42(C,U)-C	669684	--	--	--	--	669684 (26 / 1210)	--	--
C6B(A,H)-X48(C,U)-C	669852	--	--	--	--	--	669852 (22 / 1435)	--
C6B(A,H)-X48(C,U)-D	669852	--	--	--	--	--	669852 (22 / 1435)	--
C6B(A,H)-X60(C,U)-C	669686	--	--	--	--	--	--	669686 (22 / 1660)
C6B(A,H)-X60(C,U)-D	669686	--	--	--	--	--	--	669686 (22 / 1660)

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ID RESTRICTOR SUPPLIED WITH OD UNIT:		0.051	0.057, 0.058	0.062	0.068, 0.069	--	0.077	--
OUTDOOR UNIT BOM CHARGE (OZ.)		34	39	48	57	66	96	81
MODELS	SUPPLIED WITH ID	REQUIRED RESTRICTOR OR TXV (CHARGE ADDITION (OZ) / RATED AIRFLOW -SCFM)						
C7-0								
C7B(A,H)M01824(C,U)-A	0.048	0.051 (11 / 675)	0.058 (6 / 815)	--	--	--	--	--
C7B(A,H)M01824(C,U)-B	0.055	0.051 (11 / 675)	0.058 (6 / 815)	--	--	--	--	--
C7B(A,H)M030(C,U)-C	0.061	--	--	0.062 (7 / 880)	--	--	--	--
C7B(A,H)M03036(C,U)-A	0.061	--	--	0.062 (7 / 880)	--	--	--	--
C7B(A,H)M03036(C,U)-B	0.067	--	--	0.062 (7 / 880)	--	--	--	--
C7B(A,H)M03642(C,U)-B	0.071	--	--	--	0.069 (7 / 1110)	--	--	--
C7B(A,H)M03648(C,U)-C	0.067	--	--	--	0.069 (7 / 1110)	--	--	--
C7-0 + TXV								
C7B(A,H)M01824(C,U)-A + TXV	0.048	920668A (2 / 675)	920668A (0 / 845)	--	--	--	--	--
C7B(A,H)M01824(C,U)-B + TXV	0.055	920668A (2 / 675)	920668A (0 / 845)	--	--	--	--	--
C7B(A,H)M03036(C,U)-A + TXV	0.061	--	--	920669A (5 / 945)	--	--	--	--
C7B(A,H)M03036(C,U)-B + TXV	0.067	--	--	920669A (5 / 945)	--	--	--	--
C7B(A,H)M030(C,U)-C + TXV	0.061	--	--	920669A (5 / 945)	--	--	--	--
C7B(A,H)M03642(C,U)-B + TXV	0.071	--	--	--	920670A (0 / 1110)	920671A (2 / 1305)	--	--
C7B(A,H)M03648(C,U)-C + TXV	0.067	--	--	--	920670A (0 / 1110)	920671A (2 / 1305)	--	--
C7B(A,H)M048(C,U)-C + TXV	0.077	--	--	--	--	--	920672A (0 / 1525)	--
C7B(A,H)M048(C,U)-D + TXV	0.077	--	--	--	--	--	920672A (0 / 1525)	--
C7B(A,H)M060(C,U)-C + TXV	0.083	--	--	--	--	--	--	920673A (0 / 1540)
C7B(A,H)M060(C,U)-D + TXV	0.083	--	--	--	--	--	--	920673A (0 / 1540)

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OUTDOOR UNIT BOM CHARGE (OZ.)		34	39	48	57	66	96	81
MODELS	SUPPLIED WITH ID	REQUIRED RESTRICTOR OR TXV (CHARGE ADDITION (OZ) / RATED AIRFLOW -SCFM)						
C7-X								
C7B(A,H)MX24(C,U)-A	669681	669681 (2 / 675)	669681 (0 / 845)	--	--	--	--	--
C7B(A,H)MX24(C,U)-B	669681	669681 (2 / 675)	669681 (0 / 845)	--	--	--	--	--
C7B(A,H)MX30(C,U)-A	669682	--	--	669682 (5 / 945)	--	--	--	--
C7B(A,H)MX30(C,U)-B	669682	--	--	669682 (5 / 945)	--	--	--	--
C7B(A,H)MX36(C,U)-B	669683	--	--	--	669683 (0 / 1110)	--	--	--
C7B(A,H)MX36(C,U)-C	669683	--	--	--	669683 (0 / 1110)	--	--	--
C7B(A,H)MX42(C,U)-C	669684	--	--	--	--	669684 (2 / 1305)	--	--
C7B(A,H)MX48(C,U)-C	669852	--	--	--	--	--	669852 (0 / 1525)	--
C7B(A,H)MX60(C,U)-C	669686	--	--	--	--	--	--	669686 (0 / 1540)
C7B(A,H)MX60(C,U)-D	669686	--	--	--	--	--	--	669686 (0 / 1540)

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- The charges listed are only valid for the standard 15' lineset.
- Part numbers beginning with 669***are TXV part numbers and numbers listed as 0. *** are restrictor diameters.

Table 4. REQUIRED RESTRICTOR OR TXV (CHARGE ADDITION (OZ) / RATED AIRFLOW -SCFM) - Continued

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.

