

QUICK REFERENCE DATA

BSA2BD4M Series Split System Air Conditioner for Manufactured Housing

13 SEER

MODEL NUMBER: BSA2BD4M		1RN18KA	1RN24K	1RN30KA	1RN36KA	1SN42K	1SN48K	1SN60K
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"	7/8"
	25 - 39 ft.	3/4"	3/4"	3/4"	7/8" (1)	7/8"	7/8"	1-1/8" (2)
	40 - 75 ft.	3/4"	3/4"	3/4"	7/8" (1)	7/8"	7/8"	1-1/8" (2)
REFRIGERANT CHARGE R-410A in ounces for outdoor unit & 20' Lineset. (3)		56	56	61	69	68	68	71

(1) Requires 7/8" to 3/4" reducer from line to unit.

(2) Requires 1-1/8" to 7/8" reducer from line to unit.

(3) Additional charge for line sets above 20 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.

Table 1. Physical Data

MODEL NUMBER: BSA2BD4M		1RN18KA	1RN24K	1RN30KA	1RN36KA	1SN42K	1SN48K	1SN60K
ID RESTRICTOR SUPPLIED WITH OD UNIT:		0.049, 0.050	0.054, 0.055	0.057, 0.060	0.065	0.068, 0.071	0.076	---
OUTDOOR UNIT BOM CHARGE (OZ.)		56	56	61	69	68	68	71
MODELS	SUPPLIED WITH ID	REQUIRED RESTRICTOR OR TXV (CHARGE ADDITION (OZ) / RATED AIRFLOW (SCFM))						
B6BMM0								
B6BMM024K-A	0.055	0.050 (2 / 640)	0.055 (7 / 820)	---	---	---	---	---
B6BMM024K-B	0.055	0.050 (2 / 640)	0.055 (7 / 820)	---	---	---	---	---
B6BMM030K-A	0.062	---	---	0.060 (2 / 860)	---	---	---	---
B6BMM030K-B	0.062	---	---	0.060 (2 / 860)	---	---	---	---
B6BMM036K-B	0.067	---	---	---	0.065 (5 / 1175)	---	---	---
B6BMM042K-B	0.074	---	---	---	0.065 (4 / 1200)	0.068 (10 / 1370)	---	---
B6BMM048K-B	0.079	---	---	---	---	---	0.079 (2 / 1355)	---
B6BMM048K-C	0.079	---	---	---	---	---	0.079 (0 / 1630)	---
B6BMM060K-C	0.087	---	---	---	---	---	---	0.087 (0 / 1700)
B6BMMX								
B6BMMX24K-A	669564	669564 (4 / 645)	669564 (7 / 825)	---	---	---	---	---
B6BMMX24K-B	669564	669564 (4 / 645)	669564 (7 / 825)	---	---	---	---	---
B6BMMX30K-A	669565	---	---	669565 (4 / 865)	---	---	---	---
B6BMMX30K-B	669565	---	---	669565 (4 / 865)	---	---	---	---
B6BMMX36K-B	669566	---	---	---	669566 (5 / 1170)	---	---	---
B6BMMX42K-B	669567	---	---	---	---	669567 (3 / 1265)	---	---
B6BMMX48K-C	669568	---	---	---	---	---	669568 (3 / 1430)	---
B6BMMX60K-C	669578	---	---	---	---	---	---	669578 (7 / 1605)

NOTES:

‡ Requires **REMOVAL** of refrigerant from unit.

• The charges listed are only valid for the standard 20' lineset.

• Numbers listed as 0.*** are restrictor diameters, while numbers listed as 669*** are TXV part numbers.

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.

Table 2. Restrictor or TXV / Charge Addition (Oz)

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 BSA2BD4M1RN30K / C7B(A,H)M03036(C,U)-B the appropriate restrictor is the 0.060" and 4 ounces of refrigerant must be added. (CHANGE IN RESTRICTOR AND CHARGE).
- For the BSA2BD4M1SN48K / C7B(A,H)MX48(C,U)-C the appropriate TXV is 669852 and no additional charge must be added. (NO CHANGES NECESSARY).

MODEL NUMBER: BSA2BD4M		1RN18KA	1RN24K	1RN30KA	1RN36KA	1SN42K	1SN48K	1SN60K
ID RESTRICTOR SUPPLIED WITH OD UNIT:		0.049, 0.050	0.054, 0.055	0.057, 0.060	0.065	0.068, 0.071	0.076	---
OUTDOOR UNIT BOM CHARGE (OZ.)		56	56	61	69	68	68	71
MODELS	SUPPLIED WITH ID	REQUIRED RESTRICTOR OR TXV (CHARGE ADDITION (OZ) / RATED AIRFLOW (SCFM))						
B6BW								
B6BW-018K(*)	0.048	0.048 (0 / 610)	---	---	---	---	---	---
B6BW-024K(*)	0.057	---	0.055 (0 / 795)	---	---	---	---	---
B6BW-030K(*)	0.060	---	0.054 (7 / 850)	0.057 (0 / 865)	---	---	---	---
B6BW-036K(*)	0.069	---	---	0.060 (0 / 930)	0.065 (2 / 1105)	---	---	---
B6EM								
B6EMMX24K-A	669564	669564 (4 / 640)	669564 (6 / 795)	---	---	---	---	---
B6EMMX24K-B	669564	669564 (4 / 640)	669564 (6 / 795)	---	---	---	---	---
B6EMMX30K-A	669565	---	---	669565 (4 / 1005)	---	---	---	---
B6EMMX30K-B	669565	---	---	669565 (4 / 1005)	---	---	---	---
B6EMMX36K-B	669566	---	---	---	669566 (4 / 1255)	---	---	---
B6EMMX42K-B	669567	---	---	---	---	669567 (3 / 1265)	---	---
B6EMMX48K-C	669852	---	---	---	---	669852 (5 / 1465)	669852 (3 / 1430)	---
B6EMMX60K-C	669578	---	---	---	---	---	---	669578 (7 / 1605)
B6EW								
B6EW-X18K	669564	669564 (0 / 635)	---	---	---	---	---	---
B6EW-X24K	669564	---	669564 (7 / 840)	---	---	---	---	---
B6EW-X25K	669564	---	669564 (4 / 865)	---	---	---	---	---
B6EW-X36K	669566	---	---	---	669566 (2 / 1105)	---	---	---

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Table 2. Restrictor or TXV / Charge Addition (Oz) - Continued

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 BSA2BD4M1RN30K / C7B(A,H)M03036(C,U)-B the appropriate restrictor is the 0.060" and 4 ounces of refrigerant must be added. (CHANGE IN RESTRICTOR AND CHARGE).
- For the BSA2BD4M1SN48K / C7B(A,H)MX48(C,U)-C the appropriate TXV is 669852 and no additional charge must be added. (NO CHANGES NECESSARY).

MODEL NUMBER: BSA2BD4M		1RN18KA	1RN24K	1RN30KA	1RN36KA	1SN42K	1SN48K	1SN60K
ID RESTRICTOR SUPPLIED WITH OD UNIT:		0.049, 0.050	0.054, 0.055	0.057, 0.060	0.065	0.068, 0.071	0.076	---
OUTDOOR UNIT BOM CHARGE (OZ.)		56	56	61	69	68	68	71
MODELS	SUPPLIED WITH ID	REQUIRED RESTRICTOR OR TXV (CHARGE ADDITION (OZ) / RATED AIRFLOW (SCFM))						
B6VMMX								
B6VMMX24K-A	669564	669564 (4 / 640)	669564 (6 / 795)	---	---	---	---	---
B6VMMX24K-B	669564	669564 (4 / 640)	669564 (6 / 795)	---	---	---	---	---
B6VMMX30K-A	669565	---	---	669565 (4 / 1005)	---	---	---	---
B6VMMX30K-B	669565	---	---	669565 (4 / 1005)	---	---	---	---
B6VMMX36K-B	669566	---	---	---	669566 (4 / 1255)	---	---	---
B6VMMX42K-B	669567	---	---	---	---	669567 (3 / 1265)	---	---
B6VMMX48K-C	669568	---	---	---	---	669568 (5 / 1465)	669568 (3 / 1430)	---
B6VMMX60K-C	669578	---	---	---	---	---	---	669578 (7 / 1605)
C7+TXV								
C7B(A,H)M01824(C,U)-A+TXV	0.048	920668A (4 / 640)	920668A (6 / 795)	---	---	---	---	---
C7B(A,H)M01824(C,U)-B+TXV	0.055	920668A (4 / 640)	920668A (6 / 795)	---	---	---	---	---
C7B(A,H)M03036(C,U)-A+TXV	0.061	---	---	920669A (4 / 1005)	---	---	---	---
C7B(A,H)M03036(C,U)-B+TXV	0.067	---	---	920669A (4 / 1005)	---	---	---	---
C7B(A,H)M03642(C,U)-B+TXV	0.071	---	---	---	920670A (4 / 1255)	920671A (0 / 1245)	---	---
C7B(A,H)M03648(C,U)-C+TXV	0.067	---	---	---	920670A (4 / 1255)	920671A (0 / 1245)	---	---
C7B(A,H)M048(C,U)-C+TXV	0.077	---	---	---	---	---	920672A (0 / 1400)	---
C7B(A,H)M048(C,U)-D+TXV	0.077	---	---	---	---	---	920672A (0 / 1400)	---
C7B(A,H)M060(C,U)-C+TXV	0.083	---	---	---	---	---	---	920673A (7 / 1695)
C7B(A,H)M060(C,U)-D+TXV	0.083	---	---	---	---	---	---	920673A (7 / 1695)

NOTES:

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Examples:

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- For the BSA2BD4M1SN48K / C7B(A,H)MX48(C,U)-C the appropriate TXV is 669852 and no additional charge must be added. (NO CHANGES NECESSARY).

MODEL NUMBER: BSA2BD4M		1RN18KA	1RN24K	1RN30KA	1RN36KA	1SN42K	1SN48K	1SN60K
ID RESTRICTOR SUPPLIED WITH OD UNIT:		0.049, 0.050	0.054, 0.055	0.057, 0.060	0.065	0.068, 0.071	0.076	---
OUTDOOR UNIT BOM CHARGE (OZ.)		56	56	61	69	68	68	71
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	0.049 (7 / 640)	0.054 (5 / 850)	---	---	---	---	---
C7B(A,H)M01824(C,U)-B	0.055	0.049 (7 / 640)	0.054 (5 / 850)	---	---	---	---	---
C7B(A,H)M03036(C,U)-A	0.061	---	---	0.060 (4 / 1000)	0.065 (0 / 1100)	---	---	---
C7B(A,H)M03036(C,U)-B	0.067	---	---	0.060 (4 / 1000)	0.065 (0 / 1100)	---	---	---
C7B(A,H)M030(C,U)-C	0.061	---	0.054 (5 / 850)	0.060 (4 / 1000)	---	---	---	---
C7B(A,H)M03642(C,U)-B	0.071	---	---	---	0.065 (4 / 1100)	0.071 (7 / 1290)	---	---
C7B(A,H)M03648(C,U)-C	0.067	---	---	---	0.065 (4 / 1100)	0.071 (7 / 1290)	0.076 (0 / 1415)	---
C7B(A,H)M042(C,U)-D	0.071	---	---	---	---	0.071 (7 / 1290)	---	---
C7B(A,H)M048(C,U)-C	0.077	---	---	---	---	---	0.077 (2 / 1305)	---
C7B(A,H)M048(C,U)-D	0.077	---	---	---	---	---	0.077 (2 / 1305)	---
C7B(A,H)M060(C,U)-C	0.083	---	---	---	---	---	---	0.083 (15 / 1445)
C7B(A,H)M060(C,U)-D	0.083	---	---	---	---	---	---	0.083 (15 / 1445)
C7-X								
C7B(A,H)MX24(C,U)-A	669681	669681 (4 / 640)	669681 (6 / 795)	---	---	---	---	---
C7B(A,H)MX24(C,U)-B	669681	669681 (4 / 640)	669681 (6 / 795)	---	---	---	---	---
C7B(A,H)MX30(C,U)-A	669682	---	---	669682 (4 / 1005)	---	---	---	---
C7B(A,H)MX30(C,U)-B	669682	---	---	669682 (4 / 1005)	---	---	---	---
C7B(A,H)MX30(C,U)-C	669682	---	---	669682 (4 / 1005)	---	---	---	---
C7B(A,H)MX36(C,U)-B	669683	---	---	---	669683 (4 / 1255)	---	---	---
C7B(A,H)MX36(C,U)-C	669683	---	---	---	669683 (4 / 1255)	---	---	---
C7B(A,H)MX42(C,U)-B	669684	---	---	---	---	669684 (0 / 1245)	---	---
C7B(A,H)MX42(C,U)-C	669684	---	---	---	---	669684 (0 / 1245)	---	---
C7B(A,H)MX48(C,U)-C	669852	---	---	---	---	---	669852 (0 / 1400)	---
C7B(A,H)MX48(C,U)-D	669852	---	---	---	---	---	669852 (0 / 1400)	---
C7B(A,H)MX60(C,U)-C	669686	---	---	---	---	---	---	669686 (7 / 1695)
C7B(A,H)MX60(C,U)-D	669686	---	---	---	---	---	---	669686 (7 / 1695)

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Examples:

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- For the BSA2BD4M1SN48K / C7B(A,H)MX48(C,U)-C the appropriate TXV is 669852 and no additional charge must be added. (NO CHANGES NECESSARY).

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ID RESTRICTOR SUPPLIED WITH OD UNIT:		0.049, 0.050	0.054, 0.055	0.057, 0.060	0.065	0.068, 0.071	0.076	---
OUTDOOR UNIT BOM CHARGE (OZ.)		56	56	61	69	68	68	71
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 (4 / 640)	669681 (6 / 795)	---	---	---	---	---
C7B(A,H)MX24(C,U)-B	669681	669681 (4 / 640)	669681 (6 / 795)	---	---	---	---	---
C7B(A,H)MX30(C,U)-A	669682	---	---	669682 (4 / 1005)	---	---	---	---
C7B(A,H)MX30(C,U)-B	669682	---	---	669682 (4 / 1005)	---	---	---	---
C7B(A,H)MX30(C,U)-C	669682	---	---	669682 (4 / 1005)	---	---	---	---
C7B(A,H)MX36(C,U)-B	669683	---	---	---	669683 (4 / 1255)	---	---	---
C7B(A,H)MX36(C,U)-C	669683	---	---	---	669683 (4 / 1255)	---	---	---
C7B(A,H)MX42(C,U)-B	669684	---	---	---	---	669684 (0 / 1245)	---	---
C7B(A,H)MX42(C,U)-C	669684	---	---	---	---	669684 (0 / 1245)	---	---
C7B(A,H)MX48(C,U)-C	669852	---	---	---	---	---	669852 (0 / 1400)	---
C7B(A,H)MX48(C,U)-D	669852	---	---	---	---	---	669852 (0 / 1400)	---
C7B(A,H)MX60(C,U)-C	669686	---	---	---	---	---	---	669686 (7 / 1695)
C7B(A,H)MX60(C,U)-D	669686	---	---	---	---	---	---	669686 (7 / 1695)

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