

QUICK REFERENCE DATA

BSH2BE4M SERIES RESIDENTIAL SPLIT SYSTEM HEAT PUMP WITH MICROCHANNEL COILS 14 SEER

MODEL NUMBER: BSH2BE4M		1SP18K	1RP24K	1RP30K	1SP36K	1SP42K	1SP48K	1SP60KA
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"	7/8"	7/8"	7/8"	7/8"
	25-39 ft.	3/4"	3/4"	3/4"	7/8"	7/8"	7/8"	1-1/8" (1)
	40-75 ft.	3/4"	3/4"	3/4"	7/8"	7/8"	7/8"	1-1/8" (1)
Refrigerant Charge: (R-410A) in ounces for outdoor unit, indoor unit, and 15' line set (2)		92	92	104	90	121	122	126

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

(2) 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.

Table 1. Physical Data

MODEL NUMBER: BSH2BE4M		1SP18K	1RP24K	1RP30K	1SP36K	1SP42K	1SP48K	1SP60KA
ID RESTRICTOR SUPPLIED WITH OD UNIT:		0.050	0.056, 0.058	0.061	0.066, 0.067	0.074, 0.075	0.076	--
OD RESTRICTOR INSTALLED IN OD UNIT:		0.040	0.043	0.049	0.055	0.059	0.059	0.070
OUTDOOR UNIT BOM CHARGE (OZ.)		92	92	104	90	121	122	126
MODELS	SUPPLIED WITH ID	REQUIRED RESTRICTOR OR TXV (CHARGE ADDITION (OZ) / RATED AIRFLOW (SCFM))						
B6BMM0								
B6BMM024K-A	0.055	0.050 (12 / 650)	0.058 (15 / 810)	--	--	--	--	--
B6BMM024K-B	0.055	0.050 (12 / 650)	0.058 (15 / 810)	--	--	--	--	--
B6BMM030K-A	0.062	--	--	0.061 (5 / 885)	--	--	--	--
B6BMM030K-B	0.062	--	--	0.061 (5 / 885)	--	--	--	--
B6BMM042K-B	0.074	--	--	--	0.067 (13 / 1195)	0.074 (2 / 1275)	--	--
B6BMM060K-C	0.087	--	--	--	--	--	0.076 (0 / 1555)	--
B6BMMX								
B6BMMX24K-A	669564	669564 (6 / 645)	669564 (9 / 840)	--	--	--	--	--
B6BMMX24K-B	669564	669564 (6 / 645)	669564 (9 / 840)	--	--	--	--	--
B6BMMX30K-A	669565	--	--	669565 (0 / 895)	--	--	--	--
B6BMMX30K-B	669565	--	--	669565 (0 / 895)	--	--	--	--
B6BMMX36K-B	669566	--	--	--	669566 (24 / 1250)	--	--	--
B6BMMX48K-C	669568	--	--	--	--	669568 (2 / 1515)	--	--
B6BMMX60K-C	669578	--	--	--	--	--	669578 (4 / 1510)	669578 (0 / 1640)

NOTES:

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

• Gray cells require the outdoor restrictor to be changed as well. See Table 3.

• 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.

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 BSH2BE4M1SP36K / C7B(A,H)M03642(C,U)-B the restrictor needs to be changed to 0.067" and no additional charge needs to be added. (CHANGE IN RESTRICTOR).
- For the BSH2BE4M1SP48K / B6VMMX48K-C match, the correct TXV is the 669568, four ounces of charge should be added to the system, and the outdoor restrictor should be changed to the 0.062. (CHANGE IN CHARGE & OUTDOOR RESTRICTOR)

MODEL NUMBER: BSH2BE4M		1SP18K	1RP24K	1RP30K	1SP36K	1SP42K	1SP48K	1SP60KA
ID RESTRICTOR SUPPLIED WITH OD UNIT:		0.050	0.056, 0.058	0.061	0.066, 0.067	0.074, 0.075	0.076	--
OD RESTRICTOR INSTALLED IN OD UNIT:		0.040	0.043	0.049	0.055	0.059	0.059	0.070
OUTDOOR UNIT BOM CHARGE (OZ.)		92	92	104	90	121	122	126
MODELS	SUPPLIED WITH ID	REQUIRED RESTRICTOR OR TXV (CHARGE ADDITION (OZ) / RATED AIRFLOW (SCFM))						
B6BW								
B6BW-024K(*)	0.057	--	0.056 (0 / 790)	--	--	--	--	--
B6BW-036K(*)	0.069	--	--	--	0.066 (12 / 1145)	--	--	--
B6EM								
B6EMMX24K-A	669564	669564 (6 / 650)	669564 (9 / 850)	--	--	--	--	--
B6EMMX24K-B	669564	669564 (6 / 650)	669564 (9 / 850)	--	--	--	--	--
B6EMMX30K-A	669565	--	--	669565 (7 / 980)	--	--	--	--
B6EMMX30K-B	669565	--	--	669565 (7 / 980)	--	--	--	--
B6EMMX36K-B	669566	--	--	--	669566 (24 / 1140)	--	--	--
B6EMMX42K-B	669567	--	--	--	--	669567 (10 / 1205)	--	--
B6EMMX48K-C	669852	--	--	--	--	--	669852 (4 / 1510)	--
B6EMMX60K-C	669578	--	--	--	--	--	--	669578 (0 / 1640)
B6EW								
B6EW-X18K	669564	669564 (0 / 650)	--	--	--	--	--	--
B6EW-X25K	669564	--	669564 (6 / 850)	--	--	--	--	--
B6EW-X36K	669566	--	--	--	669566 (0 / 1100)	--	--	--
B6VMMX								
B6VMMX24K-A	669564	669564 (6 / 650)	669564 (9 / 850)	--	--	--	--	--
B6VMMX24K-B	669564	669564 (6 / 650)	669564 (9 / 850)	--	--	--	--	--
B6VMMX30K-A	669565	--	--	669565 (7 / 980)	--	--	--	--
B6VMMX30K-B	669565	--	--	669565 (7 / 980)	--	--	--	--
B6VMMX36K-B	669566	--	--	--	669566 (24 / 1145)	--	--	--
B6VMMX42K-B	669567	--	--	--	--	669567 (10 / 1205)	--	--
B6VMMX48K-C	669568	--	--	--	--	--	669568 (4 / 1510)	--
B6VMMX60K-C	669578	--	--	--	--	--	--	669578 (0 / 1640)

NOTES:

- ‡ Requires **REMOVAL** of refrigerant from unit.
- Gray cells require the outdoor restrictor to be changed as well. See Table 3.
- 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.

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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 BSH2BE4M1SP36K / C7B(A,H)M03642(C,U)-B the restrictor needs to be changed to 0.067" and no additional charge needs to be added. (CHANGE IN RESTRICTOR).
- For the BSH2BE4M1SP48K / B6VMMX48K-C match, the correct TXV is the 669568, four ounces of charge should be added to the system, and the outdoor restrictor should be changed to the 0.062. (CHANGE IN CHARGE & OUTDOOR RESTRICTOR)

MODEL NUMBER: BSH2BE4M		1SP18K	1RP24K	1RP30K	1SP36K	1SP42K	1SP48K	1SP60KA
ID RESTRICTOR SUPPLIED WITH OD UNIT:		0.050	0.056, 0.058	0.061	0.066, 0.067	0.074, 0.075	0.076	--
OD RESTRICTOR INSTALLED IN OD UNIT:		0.040	0.043	0.049	0.055	0.059	0.059	0.070
OUTDOOR UNIT BOM CHARGE (OZ.)		92	92	104	90	121	122	126
MODELS	SUPPLIED WITH ID	REQUIRED RESTRICTOR OR TXV (CHARGE ADDITION (OZ) / RATED AIRFLOW (SCFM))						
C7+TXV								
C7B(A,H)M01824(C,U)-A+TXV	0.048	920668A (9 / 650)	920668A (9 / 850)	--	--	--	--	--
C7B(A,H)M01824(C,U)-B+TXV	0.055	920668A (9 / 650)	920668A (9 / 850)	--	--	--	--	--
C7B(A,H)M030(C,U)-C+TXV	0.061	--	920668A (9 / 850)	920669A (5 / 1010)	--	--	--	--
C7B(A,H)M03036(C,U)-A+TXV	0.061	--	--	920669A (5 / 1010)	--	--	--	--
C7B(A,H)M03036(C,U)-B+TXV	0.067	--	--	920669A (5 / 1010)	--	--	--	--
C7B(A,H)M03642(C,U)-B+TXV	0.071	--	--	--	920670A (23 / 1195)	920671A (0 / 1275)	--	--
C7B(A,H)M03648(C,U)-C+TXV	0.067	--	--	--	920670A (23 / 1195)	920671A (0 / 1275)	--	--
C7B(A,H)M042(C,U)-D+TXV	0.071	--	--	--	--	920671A (0 / 1275)	--	--
C7B(A,H)M048(C,U)-C+TXV	0.077	--	--	--	--	--	920672A (4 / 1510)	--
C7B(A,H)M048(C,U)-D+TXV	0.077	--	--	--	--	--	920672A (4 / 1510)	--
C7B(A,H)M060(C,U)-C+TXV	0.083	--	--	--	--	--	--	920673A (0 / 1640)
C7-0								
C7B(A,H)M03642(C,U)-B	0.071	--	--	--	0.067 (13 / 1195)	0.074 (2 / 1275)	--	--
C7B(A,H)M03648(C,U)-C	0.067	--	--	--	0.067 (13 / 1195)	0.074 (2 / 1275)	--	--
C7B(A,H)M042(C,U)-D	0.071	--	--	--	--	0.074 (2 / 1275)	--	--

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MODEL NUMBER: BSH2BE4M		1SP18K	1RP24K	1RP30K	1SP36K	1SP42K	1SP48K	1SP60KA
ID RESTRICTOR SUPPLIED WITH OD UNIT:		0.050	0.056, 0.058	0.061	0.066, 0.067	0.074, 0.075	0.076	--
OD RESTRICTOR INSTALLED IN OD UNIT:		0.040	0.043	0.049	0.055	0.059	0.059	0.070
OUTDOOR UNIT BOM CHARGE (OZ.)		92	92	104	90	121	122	126
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 (9 / 660)	669681 (9 / 850)	--	--	--	--	--
C7B(A,H)MX24(C,U)-B	669681	669681 (9 / 660)	669681 (9 / 850)	--	--	--	--	--
C7B(A,H)MX30(C,U)-A	669682	--	--	669682 (5 / 1010)	--	--	--	--
C7B(A,H)MX30(C,U)-B	669682	--	--	669682 (5 / 1010)	--	--	--	--
C7B(A,H)MX30(C,U)-C	669682	--	669682 (9 / 850)	669682 (5 / 1010)	--	--	--	--
C7B(A,H)MX36(C,U)-B	669683	--	--	--	669683 (23 / 1140)	--	--	--
C7B(A,H)MX36(C,U)-C	669683	--	--	--	669683 (23 / 1140)	--	--	--
C7B(A,H)MX42(C,U)-C	669684	--	--	--	--	669684 (0 / 1275)	--	--
C7B(A,H)MX48(C,U)-C	669852	--	--	--	--	--	669852 (4 / 1510)	--
C7B(A,H)MX48(C,U)-D	669852	--	--	--	--	--	669852 (4 / 1510)	--
C7B(A,H)MX60(C,U)-C	669686	--	--	--	--	--	--	669686 (0 / 1640)

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

OD UNIT	ID UNIT	FACTORY INSTALLED RESTRICTOR	CORRECT OUTDOOR RESTRICTOR
BSH2BE4M1RP18K	B6EW-X18K(*)	0.040	0.044
BSH2BE4M1RP24K	B6BW-024K(*)	0.043	0.047
	B6EW-X25K(*)		0.049
BSH2BE4M1RP36K	B6BW-036K(*)	0.055	0.059
	B6EW-X36K(*)		
BSH2BE4M1SP42K	C7B(A,H)M03642(C,U)-B+TXV	0.059	0.057
	C7B(A,H)M03648(C,U)-C+TXV		
	C7B(A,H)M042(C,U)-D+TXV		
	C7B(A,H)M03642(C,U)-B		
	C7B(A,H)M03648(C,U)-C		
	C7B(A,H)M042(C,U)-D		
	C7B(A,H)MX42(C,U)-C		
BSH2BE4M1SP48K	B6BMMX60K-C	0.059	0.062
	B6EMMX48K-C		
	B6VMMX48K-C		
	C7B(A,H)M048(C,U)-C+TXV		
	C7B(A,H)M048(C,U)-D+TXV		
	C7B(A,H)MX48(C,U)-C		
	C7B(A,H)MX48(C,U)-D		

Table 3. Outdoor Restrictor Changes

