

# QUICK REFERENCE DATA

**\*SH(1,2)BE4M SERIES RESIDENTIAL SPLIT SYSTEM HEAT PUMP WITH MICROCHANNEL COILS 14 SEER**

MODEL NUMBER: *SH(1,2)BE4M	1SP18K	1SP24K	1SP30K	1SP36K	1SP42K	1SP48K	1SP60KA
<b>Refrigerant suction line O.D.*</b> 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"
	25-39 ft.	3/4"	3/4"	3/4"	7/8"	7/8"	1-1/8" (1)
	40-75 ft.	3/4"	3/4"	3/4"	7/8"	7/8"	1-1/8" (1)
<b>Refrigerant Charge:</b> (R-410A) in ounces for outdoor unit, indoor unit, and 15' line set (2)	104	105	103	103	123	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: *SH(1,2)BE4M	1SP18K	1SP24K	1SP30K	1SP36K	1SP42K	1SP48K	1SP60KA
<b>ID RESTRICTOR SUPPLIED WITH OD UNIT:</b>	0.050	0.057	0.061	0.066, 0.067	0.074	0.076	--
<b>OD RESTRICTOR INSTALLED IN OD UNIT:</b>	0.040	0.041	0.048	0.055	0.059	0.059	0.070
<b>OUTDOOR UNIT BOM CHARGE (OZ.)</b>	104	105	103	103	123	122	126
MODELS	SUPPLIED WITH ID	REQUIRED RESTRICTOR OR TXV (CHARGE ADDITION (OZ) / RATED AIRFLOW (SCFM))					
<b>B6BMM0</b>							
B6BMM024K-A	0.055	0.050 (0 / 650)	0.057 (0 / 825)	--	--	--	--
B6BMM024K-B	0.055	0.050 (0 / 650)	0.057 (0 / 825)	--	--	--	--
B6BMM030K-A	0.062	--	--	0.062 (0 / 930)	--	--	--
B6BMM030K-B	0.062	--	--	0.062 (0 / 930)	--	--	--
B6BMM042K-B	0.074	--	--	--	0.067 (0 / 1195)	0.074 (0 / 1275)	--
B6BMM060K-C	0.087	--	--	--	--	--	0.076 (0 / 1555)
<b>B6BMMX</b>							
B6BMMX24K-A	669564	669564 (-6 / 645) ‡	669564 (-8 / 820) ‡	--	--	--	--
B6BMMX24K-B	669564	669564 (-6 / 645) ‡	669564 (-8 / 820) ‡	--	--	--	--
B6BMMX30K-A	669565	--	--	669565 (2 / 1040)	--	--	--
B6BMMX30K-B	669565	--	--	669565 (-2 / 1040) ‡	--	--	--
B6BMMX36K-B	669566	--	--	--	669566 (11 / 1250)	--	--
B6BMMX48K-C	669568	--	--	--	--	669568 (0 / 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.

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**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 \*SH(1,2)BE4M1SP36K / 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 \*SH(1,2)BE4M1SP30K / B6BW-030K(\*) match, the indoor restrictor should be changed to the 0.061; four ounces of charge should be removed from the system, and the outdoor restrictor should be changed to the 0.051. (CHANGE IN INDOOR & OUTDOOR RESTRICTORS & CHARGE)

MODEL NUMBER: *SH(1,2)BE4M		1SP18K	1SP24K	1SP30K	1SP36K	1SP42K	1SP48K	1SP60KA
ID RESTRICTOR SUPPLIED WITH OD UNIT:		0.050	0.057	0.061	0.066, 0.067	0.074	0.076	--
OD RESTRICTOR INSTALLED IN OD UNIT:		0.040	0.041	0.048	0.055	0.059	0.059	0.070
OUTDOOR UNIT BOM CHARGE (OZ.)		104	105	103	103	123	122	126
MODELS	SUPPLIED WITH ID	REQUIRED RESTRICTOR OR TXV (CHARGE ADDITION (OZ) / RATED AIRFLOW (SCFM))						
<b>B6BW</b>								
B6BW-024K(*)	0.057	--	0.057 (-14 / 805) ‡	--	--	--	--	--
B6BW-030K(*)	0.060	--	--	0.061 (-4 / 1010) ‡	--	--	--	--
B6BW-036K(*)	0.069	--	--	--	0.066 (-1 / 1145) ‡	--	--	--
<b>B6EM</b>								
B6EMMX24K-A	669564	669564 (-6 / 650) ‡	669564 (-8 / 820) ‡	--	--	--	--	--
B6EMMX24K-B	669564	669564 (-6 / 650) ‡	669564 (-8 / 820) ‡	--	--	--	--	--
B6EMMX30K-A	669565	--	--	669565 (2 / 980)	--	--	--	--
B6EMMX30K-B	669565	--	--	669565 (2 / 980)	--	--	--	--
B6EMMX36K-B	669566	--	--	--	669566 (11 / 1140)	--	--	--
B6EMMX42K-B	669567	--	--	--	--	669567 (8 / 1205)	--	--
B6EMMX48K-C	669852	--	--	--	--	--	669852 (4 / 1510)	--
B6EMMX60K-C	669578	--	--	--	--	--	--	669578 (0 / 1640)
<b>B6EW</b>								
B6EW-X18K	669564	669564 (-12 / 650) ‡	--	--	--	--	--	--
B6EW-X25K	669564	--	669564 (-21 / 865) ‡	--	--	--	--	--
B6EW-X30K	669565	--	--	669565 (-22 / 1000) ‡	--	--	--	--
B6EW-X36K	669566	--	--	--	669566 (-13 / 1100) ‡	--	--	--

**NOTES:**

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- 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 \*SH(1,2)BE4M1SP36K / 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 \*SH(1,2)BE4M1SP30K / B6BW-030K(\*) match, the indoor restrictor should be changed to the 0.061; four ounces of charge should be removed from the system, and the outdoor restrictor should be changed to the 0.051. (CHANGE IN INDOOR & OUTDOOR RESTRICTORS & CHARGE)

MODEL NUMBER: *SH(1,2)BE4M		1SP18K	1SP24K	1SP30K	1SP36K	1SP42K	1SP48K	1SP60KA
ID RESTRICTOR SUPPLIED WITH OD UNIT:		0.050	0.057	0.061	0.066, 0.067	0.074	0.076	--
OD RESTRICTOR INSTALLED IN OD UNIT:		0.040	0.041	0.048	0.055	0.059	0.059	0.070
OUTDOOR UNIT BOM CHARGE (OZ.)		104	105	103	103	123	122	126
MODELS	SUPPLIED WITH ID	REQUIRED RESTRICTOR OR TXV (CHARGE ADDITION (OZ) / RATED AIRFLOW (SCFM))						
<b>B6VMMX</b>								
B6VMMX24K-A	669564	669564 (-6 / 650) ‡	669564 (-8 / 820) ‡	--	--	--	--	--
B6VMMX24K-B	669564	669564 (-6 / 650) ‡	669564 (-8 / 820) ‡	--	--	--	--	--
B6VMMX30K-A	669565	--	--	669565 (2 / 980)	--	--	--	--
B6VMMX30K-B	669565	--	--	669565 (2 / 980)	--	--	--	--
B6VMMX36K-B	669566	--	--	--	669566 (11 / 1145)	--	--	--
B6VMMX42K-B	669567	--	--	--	--	669567 (8 / 1205)	--	--
B6VMMX48K-C	669568	--	--	--	--	--	669568 (4 / 1510)	--
B6VMMX60K-C	669578	--	--	--	--	--	--	669578 (0 / 1640)
<b>C7+TXV</b>								
C7B(A,H)M01824(C,U)-A+TXV	0.048	920668A (-3 / 650) ‡	920668A (-7 / 820) ‡	--	--	--	--	--
C7B(A,H)M01824(C,U)-B+TXV	0.055	920668A (-3 / 650) ‡	920668A (-7 / 820) ‡	--	--	--	--	--
C7B(A,H)M030(C,U)-C+TXV	0.061	--	920668A (-7 / 820) ‡	920669A (0 / 980)	--	--	--	--
C7B(A,H)M03036(C,U)-A+TXV	0.061	--	--	920669A (0 / 980)	--	--	--	--
C7B(A,H)M03036(C,U)-B+TXV	0.067	--	--	920669A (0 / 980)	--	--	--	--
C7B(A,H)M03642(C,U)-B+TXV	0.071	--	--	--	920670A (10 / 1195)	920671A (-2 / 1275) ‡	--	--
C7B(A,H)M03648(C,U)-C+TXV	0.067	--	--	--	920670A (10 / 1195)	920671A (-2 / 1275) ‡	--	--
C7B(A,H)M042(C,U)-D+TXV	0.071	--	--	--	--	920671A (-2 / 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)

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**Examples:**

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MODEL NUMBER: *SH(1,2)BE4M		1SP18K	1SP24K	1SP30K	1SP36K	1SP42K	1SP48K	1SP60KA
ID RESTRICTOR SUPPLIED WITH OD UNIT:		0.050	0.057	0.061	0.066, 0.067	0.074	0.076	--
OD RESTRICTOR INSTALLED IN OD UNIT:		0.040	0.041	0.048	0.055	0.059	0.059	0.070
OUTDOOR UNIT BOM CHARGE (OZ.)		104	105	103	103	123	122	126
MODELS	SUPPLIED WITH ID	REQUIRED RESTRICTOR OR TXV (CHARGE ADDITION (OZ) / RATED AIRFLOW (SCFM))						
<b>C7-0</b>								
C7B(A,H)M030(C,U)-C	0.061	--	--	0.061 (0 / 1040)	--	--	--	--
C7B(A,H)M03036(C,U)-A	0.061	--	--	0.061 (0 / 1040)	--	--	--	--
C7B(A,H)M03036(C,U)-B	0.067	--	--	<b>0.061</b> (0 / 1040)	--	--	--	--
C7B(A,H)M03642(C,U)-B	0.071	--	--	--	<b>0.067</b> (0 / 1195)	<b>0.074</b> (0 / 1275)	--	--
C7B(A,H)M03648(C,U)-C	0.067	--	--	--	0.067 (0 / 1195)	<b>0.074</b> (0 / 1275)	--	--
C7B(A,H)M042(C,U)-D	0.071	--	--	--	--	<b>0.074</b> (0 / 1275)	--	--
<b>C7-X</b>								
C7B(A,H)MX24(C,U)-A	669681	669681 (-3 / 660) ‡	669681 (-7 / 810) ‡	--	--	--	--	--
C7B(A,H)MX24(C,U)-B	669681	669681 (-3 / 660) ‡	669681 (-7 / 810) ‡	--	--	--	--	--
C7B(A,H)MX30(C,U)-A	669682	--	--	669682 (0 / 980)	--	--	--	--
C7B(A,H)MX30(C,U)-B	669682	--	--	669682 (0 / 980)	--	--	--	--
C7B(A,H)MX30(C,U)-C	669682	--	669682 (-7 / 810) ‡	669682 (0 / 980)	--	--	--	--
C7B(A,H)MX36(C,U)-B	669683	--	--	--	669683 (10 / 1140)	--	--	--
C7B(A,H)MX36(C,U)-C	669683	--	--	--	669683 (10 / 1140)	--	--	--
C7B(A,H)MX42(C,U)-C	669684	--	--	--	--	669684 (-2 / 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
*SH(1,2)BE4M1SP18K	B6EW-X18K(*)	0.040	0.044
*SH(1,2)BE4M1SP24K	B6BW-024K(*)	0.041	0.047
	B6EW-X25K(*)		0.049
*SH(1,2)BE4M1SP30K	B6EW-X30K(*)	0.048	0.053
	B6BW-030K(*)		0.051
	C7B(A,H)M03036(C,U)-A+TXV		
	C7B(A,H)M03036(C,U)-B+TXV		
	C7B(A,H)M030(C,U)-C+TXV		
	C7B(A,H)M03036(C,U)-A		
	C7B(A,H)M03036(C,U)-B		
	C7B(A,H)M030(C,U)-C		
	C7B(A,H)MX30(C,U)-A		
	C7B(A,H)MX30(C,U)-B		
C7B(A,H)MX30(C,U)-C			
*SH(1,2)BE4M1SP36K	B6BW-036K(*)	0.055	0.059
	B6EW-X36K(*)		
*SH(1,2)BE4M1SP42K	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			
*SH(1,2)BE4M1SP48K	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**





