

# 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
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)
<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
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>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.

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:**

- Find the column for the model of outdoor unit that is being installed.
- Find the row for the model of the indoor unit that is being installed.
- 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.
- 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) ‡	--	--

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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:**

- Find the column for the model of outdoor unit that is being installed.
- Find the row for the model of the indoor unit that is being installed.
- 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.
- 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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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 (0 / 1040)</b>	--	--	--	--
C7B(A,H)M03642(C,U)-B	0.071	--	--	--	<b>0.067 (0 / 1195)</b>	<b>0.074 (0 / 1275)</b>	--	--
C7B(A,H)M03648(C,U)-C	0.067	--	--	--	0.067 (0 / 1195)	<b>0.074 (0 / 1275)</b>	--	--
C7B(A,H)M042(C,U)-D	0.071	--	--	--	--	<b>0.074 (0 / 1275)</b>	--	--
<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	--	--	--	--	<b>669684 (-2 / 1275) ‡</b>	--	--
C7B(A,H)MX48(C,U)-C	669852	--	--	--	--	--	<b>669852 (4 / 1510)</b>	--
C7B(A,H)MX48(C,U)-D	669852	--	--	--	--	--	<b>669852 (4 / 1510)</b>	--
C7B(A,H)MX60(C,U)-C	669686	--	--	--	--	--	--	<b>669686 (0 / 1640)</b>

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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(*)		
	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		0.051
	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	
	C7B(A,H)M03648(C,U)-C+TXV		
	C7B(A,H)M042(C,U)-D+TXV		
	C7B(A,H)M03642(C,U)-B		0.057
	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	
	B6EMMX48K-C		
	B6VMMX48K-C		
	C7B(A,H)M048(C,U)-C+TXV		0.062
	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**







**10270520**  
(Replaces 10252710)

Specifications & illustrations subject to change without notice or incurring obligations (06/19).  
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