

# QUICK REFERENCE DATA

## \*SH4BD Series - Residential Split System Heat Pump

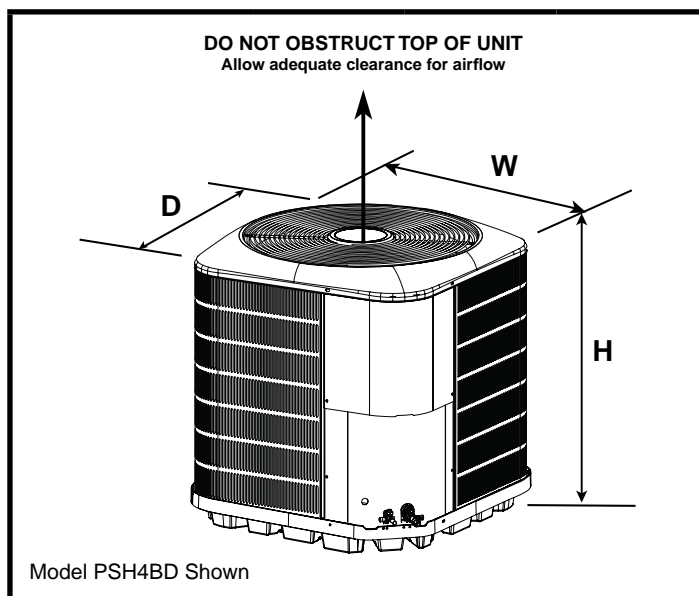
MODEL NUMBER: *SH4BD			018K	024K	030K	036K	042K	048K	060K
<b>Electrical Data</b>	Volts-Cycles-Phase (1)		208/230-60-1						
	Total Amps		10	14.4	15.1	17.6	19.3	23.2	27.6
	Delay Fuse Max. (2)		20	30	30	35	40	45	50
	Min. Circuit Ampacity		12.2	17.8	18.6	21.8	23.8	28.6	34.2
<b>Condenser Data</b>	Coil	Area	17.5	20.3	22.8	25.4	22.8	25.4	25.4
		Rows-FPI	1-20	1-20	1-20	1-20	2-16	2-16	2-16
		Tube Dia	3/8" O.D.						
	Fan Motor	Type	PSC						
		Amps	1.0	1.0	1.0	1.0	1.4	1.4	1.4
		Watts-HP	0.25						
	Compressor Data	RLA	9	13.4	14.1	16.6	17.9	21.8	26.2
LRA		48	58.3	73	79	112	117	134	
<b>Refrigerant suction line O.D</b>		0-24 ft.	3/4"	3/4"	3/4"	7/8"	7/8"	7/8"	7/8"
<b>NOTE:</b> Liquid line is 3/8" O.D. for entire length.		25-39 ft.	3/4"	3/4"	3/4"	7/8"	7/8"	7/8"	1-1/8" (3)
		40-75 ft.	3/4"	3/4"	3/4"	7/8"	7/8"	7/8"	1-1/8" (3)
<b>Refrigerant charge</b> R-410A in ounces for outdoor unit & 15' lineset. (4)			98	130	140	158	243	240	248
<b>Approximate Weight (lbs.)</b>	Net		166	171	176	181	247	280	290
	Ship		175	180	185	190	260	295	305

- (1) Operating Voltage Range: 187v min. — 253v max.
- (2) HACR Type Circuit Breakers may be used.
- (3) Requires 7/8" to 1-1/8" adapter from unit to line.
- (4) 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.

**Table 1. Electrical Specifications & Physical Data**

Thermostat Wire Gauge	Recommended T-Stat Wire Unit to T-Stat (Length in FT)	
	2-Wire (Heating)	5-Wire (Heating/Cooling)
24	55	25
22	90	45
20	140	70
18	225	110

**Table 2. Thermostat Wire Gauge**



MODEL NUMBER	HEIGHT (H)	WIDTH (W)	DEPTH (D)
*SH4BD018K	33 1/2"	30 3/4"	30 3/4"
*SH4BD024K	37 1/2"	30 3/4"	30 3/4"
*SH4BD030K	41 1/2"	30 3/4"	30 3/4"
*SH4BD036K	45 1/2"	30 3/4"	30 3/4"
*SH4BD042K	41 1/2"	30 3/4"	30 3/4"
*SH4BD048K	45 1/2"	30 3/4"	30 3/4"
*SH4BD060K	45 1/2"	30 3/4"	30 3/4"

**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 \*SH4BD018K / B5BMM024K-B match, the restrictor will need to be changed to the .053" and 14 ounces of additional charge will need to be added. (CHANGE IN CHARGE AND ORIFICE)
- For the \*SH4BD048K / B6EMMX48K-C match, the appropriate TXV is the 669852 and no additional charge is necessary. (NO CHANGES ARE NECESSARY)

MODEL NUMBER: *SH4BD		018K	024K	030K	036K	042K	048K	060K
<b>ID Restrictor Supplied With OD Unit</b>		<b>0.053</b>	<b>0.055</b>				<b>0.079</b>	<b>0.087</b>
<b>OD Restrictor Installed with OD Unit</b>		<b>0.035</b>	<b>0.041</b>	<b>0.048</b>	<b>0.055</b>	<b>0.055</b>	<b>0.060</b>	<b>0.068</b>
<b>Outdoor Unit BOM Charge (Oz.)</b>		<b>98</b>	<b>130</b>	<b>140</b>	<b>158</b>	<b>243</b>	<b>240</b>	<b>248</b>
MODELS	SUPPLIED WITH ID	REQUIRED RESTRICTOR OR TXV / CHARGE ADDITION (OZ)						
<b>B4VM</b>								
B4VM-X24K-A	669564	669564 / 14	669564 / 8	--	--	--	--	--
B4VM-X24K-B	669564	669564 / 14	669564 / 8	--	--	--	--	--
B4VM-X30K-A	669565	--	--	669565 / 5	--	--	--	--
B4VM-X30K-B	669565	--	--	669565 / 5	--	--	--	--
B4VM-X36K-B	669566	--	--	--	669566 / 8	--	--	--
B4VM-X48K-B	669568	--	--	--	--	669568 / 0	--	--
B4VM-X48K-C	669568	--	--	--	--	669568 / 0	669568 / 8	--
B4VM-X60K-C	669578	--	--	--	--	--	--	669578 / 0
<b>GB5BM-0</b>								
GB5BM-024K-A	0.055	<b>0.053 / 14</b>	0.055 / 8	--	--	--	--	--
GB5BM-024K-B	0.055	<b>0.053 / 14</b>	0.055 / 8	--	--	--	--	--
GB5BM-030K-A	0.065	--	--	0.065 / 5	--	--	--	--
GB5BM-030K-B	0.065	--	<b>0.055 / 8</b>	0.065 / 5	--	--	--	--
GB5BM-036A-B	0.073	--	--	--	0.073 / 8	--	--	--
GB5BM-036K-B	0.073	--	--	--	0.073 / 8	--	--	--
GB5BM-042K-B	0.077	--	--	--	--	0.077 / 0	--	--
GB5BM-048K-C	0.080	--	--	--	--	--	0.080 / 8	--
GB5BM-060K-C	0.089	--	--	--	--	--	--	0.089 / 0
<b>GB5BMMO</b>								
GB5BMM024K-A	0.055	<b>0.053 / 14</b>	0.055 / 0	--	--	--	--	--
GB5BMM024K-B	0.055	<b>0.053 / 14</b>	0.055 / 0	--	--	--	--	--
GB5BMM030K-A	0.062	--	--	0.062 / 0	--	--	--	--
GB5BMM030K-B	0.062	--	--	0.062 / 0	--	--	--	--
GB5BMM036K-B	0.067	--	--	--	0.067 / 0	--	--	--
GB5BMM042K-B	0.074	--	--	--	--	0.074 / 5	--	--
GB5BMM048K-B	0.079	--	--	--	--	--	0.079 / 8	--
GB5BMM048K-C	0.079	--	--	--	--	--	0.079 / 8	--
GB5BMM060K-C	0.087	--	--	--	--	--	--	0.087 / 0
<b>B5BM-X</b>								
B5B(M,V)-X24K-A	669564	669564 / 14	669564 / 8	--	--	--	--	--
B5B(M,V)-X24K-B	669564	669564 / 14	669564 / 8	--	--	--	--	--
B5B(M,V)-X30K-A	669565	--	--	669565 / 5	--	--	--	--
B5B(M,V)-X30K-B	669565	--	669565 / 8	669565 / 5	--	--	--	--
B5B(M,V)-X36K-B	669566	--	--	--	669566 / 8	--	--	--
B5B(M,V)-X42K-B	669567	--	--	--	--	669567 / 0	--	--
B5B(M,V)-X48K-B	669568	--	--	--	--	--	669568 / 8	--
B5B(M,V)-X48K-C	669568	--	--	--	--	--	669568 / 8	--
B5B(M,V)-X60K-C	669578	--	--	--	--	--	--	669578 / 0

**NOTES:**

- The charges listed are only valid for the standard 15' lineset.
- Numbers listed as 0.\*\*\* are restrictor diameters, while numbers listed as 669\*\*\* are TXV part numbers.

**Table 4. 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 \*SH4BD018K / B5BMM024K-B match, the restrictor will need to be changed to the .053" and 14 ounces of additional charge will need to be added. (CHANGE IN CHARGE AND ORIFICE)
- For the \*SH4BD048K / B6EMMX48K-C match, the appropriate TXV is the 669852 and no additional charge is necessary. (NO CHANGES ARE NECESSARY)

MODEL NUMBER: *SH4BD		018K	024K	030K	036K	042K	048K	060K
<b>ID Restrictor Supplied With OD Unit</b>		<b>0.053</b>	<b>0.055</b>				<b>0.079</b>	<b>0.087</b>
<b>OD Restrictor Installed with OD Unit</b>		<b>0.035</b>	<b>0.041</b>	<b>0.048</b>	<b>0.055</b>	<b>0.055</b>	<b>0.060</b>	<b>0.068</b>
<b>Outdoor Unit BOM Charge (Oz.)</b>		<b>98</b>	<b>130</b>	<b>140</b>	<b>158</b>	<b>243</b>	<b>240</b>	<b>248</b>
MODELS	SUPPLIED WITH ID	REQUIRED RESTRICTOR OR TXV / CHARGE ADDITION (OZ)						
<b>B5BW</b>								
GB5BW-024K(*)	0.057 †	<b>0.050 / 14</b>	0.057 / 8	--	--	--	--	--
GB5BW-030K(*)	0.063 #	<b>0.050 / 14</b>	<b>0.057 / 8</b>	<b>0.065 / 5</b>	--	--	--	--
<b>B6BMMO</b>								
B6BMM024K-A	0.055	<b>0.053 / 14</b>	0.055 / 0	--	--	--	--	--
B6BMM024K-B	0.055	<b>0.053 / 14</b>	0.055 / 0	--	--	--	--	--
B6BMM030K-A	0.062	--	--	0.062 / 0	--	--	--	--
B6BMM030K-B	0.062	--	--	0.062 / 0	--	--	--	--
B6BMM036K-B	0.067	--	--	--	0.067 / 0	--	--	--
B6BMM042K-B	0.074	--	--	--	--	0.074 / 5	--	--
B6BMM048K-B	0.079	--	--	--	--	--	0.079 / 8	--
B6BMM048K-C	0.079	--	--	--	--	--	0.079 / 8	--
B6BMM060K-C	0.087	--	--	--	--	--	--	0.087 / 0
<b>B6EM</b>								
B6EMMX24K-A	669564	669564 / 0	669564 / 0	--	--	--	--	--
B6EMMX24K-B	669564	669564 / 0	669564 / 0	--	--	--	--	--
B6EMMX30K-A	669565	--	--	669565 / 9	--	--	--	--
B6EMMX30K-B	669565	--	--	669565 / 9	--	--	--	--
B6EMMX36K-B	669566	--	--	--	669566 / 3	--	--	--
B6EMMX42K-B	669567	--	--	--	--	669567 / 0	--	--
B6EMMX48K-C	669852	--	--	--	--	669852 / -32‡	669852 / 0	--
B6EMMX60K-C	669578	--	--	--	--	--	--	669578 / 5
<b>C6</b>								
C6B(A,H)-X24(C,U)-A	669564	669564 / 14	669564 / 8	--	--	--	--	--
C6B(A,H)-X24(C,U)-B	669681	669681 / 14	669681 / 8	--	--	--	--	--
C6B(A,H)-X30(C,U)-A	669565	--	--	669565 / 5	--	--	--	--
C6B(A,H)-X30(C,U)-B	669682	--	--	669682 / 5	--	--	--	--
C6B(A,H)-X30(C,U)-C	669682	--	--	669682 / 5	--	--	--	--
C6B(A,H)-X35(C,U)-B	669683	--	--	--	669683 / 8	--	--	--
C6B(A,H)-X36(C,U)-B	669683	--	--	--	669683 / 8	--	--	--
C6B(A,H)-X36(C,U)-C	669683	--	--	--	669683 / 8	--	--	--
C6B(A,H)-X42(C,U)-B	669684	--	--	--	--	669684 / 0	--	--
C6B(A,H)-X42(C,U)-C	669684	--	--	--	--	669684 / 0	--	--
C6B(A,H)-X42(C,U)-D	669684	--	--	--	--	669684 / 0	--	--
C6B(A,H)-X47(C,U)-C	669852	--	--	--	--	--	669852 / 8	--
C6B(A,H)-X48(C,U)-C	669852	--	--	--	--	--	669852 / 8	--
C6B(A,H)-X48(C,U)-D	669852	--	--	--	--	--	669852 / 8	--

**NOTES:**

- The charges listed are only valid for the standard 15' lineset.
- Numbers listed as 0.\*\*\* are restrictor diameters, while numbers listed as 669\*\*\* are TXV part numbers.
- ‡ This is a charge reduction. Remove 32 ounces from the initial charge that came with the unit.
- † The GB5BW-024K unit is supplied with an extra 0.050 restrictor for use with the \*SH4BD018K.
- # The GB5BW-030K unit is supplied with extra 0.050, 0.057, and 0.065 restrictors.

**Table 4. Restrictor or TXV / Charge Addition (Oz) - Continued**

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