

QUICK REFERENCE DATA

PSH4BD, CSH4BD, & MSH4BD Series - Residential Split System Heat Pump

MODEL NUMBERS: PSH4BD, CSH4BD & MSH4BD			018K	024K	030K	036K	042K	048K	060K
Electrical Data	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
Condenser Data	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						
	Fan Blade	Dia-# Blades	24"- 2						
		SCFM	3000	3200	3300	3400	3700	3800	3800
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	
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" (3)
		40-75 ft.	3/4"	3/4"	3/4"	7/8"	7/8"	7/8"	1-1/8" (3)
Refrigerant charge R-410A in ounces for outdoor unit & 15' lineset.			98	130	140	158	243	240	248
Approximate Weight (lbs.)		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.

Table 1. Electrical Specifications & Physical Data

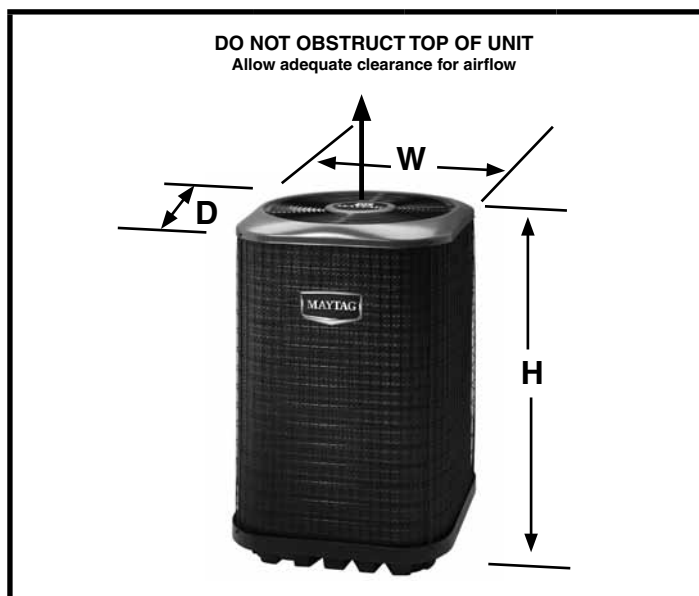
COPPER WIRE SIZE — AWG (1% Voltage Drop)				
Supply Wire Length-Feet				Supply Circuit Ampacity
200	150	100	50	
6	8	10	14	15
4	6	8	12	20
4	6	8	10	25
4	4	6	10	30
3	4	6	8	35
3	4	6	8	40
2	3	4	6	45
2	3	4	6	50
2	3	4	6	55
1	2	3	4	60

Wire Size based on N.E.C. for 60° type copper conductors.

Table 2. Copper Wire Size

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 3. Thermostat Wire Gauge



MODEL NUMBER	HEIGHT (H)	WIDTH (W)	DEPTH (D)
*SH4BD-018K	33"	30 3/4"	30 3/4"
*SH4BD-024K	37"	30 3/4"	30 3/4"
*SH4BD-030K	41"	30 3/4"	30 3/4"
*SH4BD-036K	45"	30 3/4"	30 3/4"
*SH4BD-042K	41"	30 3/4"	30 3/4"
*SH4BD-048K	45"	30 3/4"	30 3/4"
*SH4BD-060K	45"	30 3/4"	30 3/4"

Table 4. 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 T4BD-018K / 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 T4BD-048K / B6EMMX48K-C match, the appropriate TXV is the 669852 and no additional charge is necessary. (NO CHANGES ARE NECESSARY)

MODEL NO. PSH4BD, CSH4BD, & MSH4BD		018K	024K	030K	036K	042K	048K	060K
ID Restrictor Supplied With OD Unit		0.053	0.055				0.079	0.087
OD Restrictor Installed with OD Unit		0.035	0.041	0.048	0.055	0.055	0.060	0.068
Outdoor Unit BOM Charge (Oz.)		98	130	140	158	243	240	248
MODELS	SUPPLIED WITH ID	REQUIRED RESTRICTOR OR TXV / CHARGE ADDITION (OZ)						
B4VM								
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
GB5BM-0								
GB5BM-024K-A	0.055	0.053 / 14	0.055 / 8	--	--	--	--	--
GB5BM-024K-B	0.055	0.053 / 14	0.055 / 8	--	--	--	--	--
GB5BM-030K-A	0.065	--	--	0.065 / 5	--	--	--	--
GB5BM-030K-B	0.065	--	0.055 / 8	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
GB5BMMO								
GB5BMM024K-A	0.055	0.053 / 14	0.055 / 0	--	--	--	--	--
GB5BMM024K-B	0.055	0.053 / 14	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
B5BM-X								
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 5. 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 T4BD-018K / 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 T4BD-048K / B6EMMX48K-C match, the appropriate TXV is the 669852 and no additional charge is necessary. (NO CHANGES ARE NECESSARY)

MODEL NO. PSH4BD, CSH4BD, & MSH4BD		018K	024K	030K	036K	042K	048K	060K
ID Restrictor Supplied With OD Unit		0.053	0.055				0.079	0.087
OD Restrictor Installed with OD Unit		0.035	0.041	0.048	0.055	0.055	0.060	0.068
Outdoor Unit BOM Charge (Oz.)		98	130	140	158	243	240	248
MODELS	SUPPLIED WITH ID	REQUIRED RESTRICTOR OR TXV / CHARGE ADDITION (OZ)						
B5BW								
GB5BW-024K(*)	0.057 †	0.050 / 14	0.057 / 8	--	--	--	--	--
GB5BW-030K(*)	0.063 #	0.050 / 14	0.057 / 8	0.065 / 5	--	--	--	--
B6BMMO								
B6BMM024K-A	0.055	0.053 / 14	0.055 / 0	--	--	--	--	--
B6BMM024K-B	0.055	0.053 / 14	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
B6EM								
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
C6								
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 T4BD-018K.
- # The GB5BW-030K unit is supplied with extra 0.050, 0.057, and 0.065 restrictors.

Table 5. Restrictor or TXV / Charge Addition (Oz) - Continued

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Specifications & illustrations subject to change without notice or incurring obligations.
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