

QUICK REFERENCE DATA

*SH4BF SERIES RESIDENTIAL SPLIT SYSTEM HEAT PUMP

16 SEER

MODEL NUMBER *SH4BF-			024KB	036KA	048KA	060KA
ELECTRICAL DATA	Volts-Cycles-Phase (1)		208/230-60-1			
	Total Amps		12.6	16.5	23.7	31.4
	Delay Fuse Max. (2)		25	35	50	60
	Min. Circuit Ampacity		15.6	20.3	29.0	38.6
CONDENSER DATA	Coil	Area	25.4	25.4	25.4	25.4
		Rows-FPI	1-20	2-18	2-18	2-18
		Tube Dia	3/8" O.D.			
	Fan Motor	Type	PSC		BLDC	
		Amps	1.0	1.3	2.6	2.6
		HP	1/5	1/4	1/3	1/3
	Compressor Data	RLA	11.6	15.2	21.1	28.8
		LRA	58.3	83.0	104.0	152.9
RECOMMENDED REFRIGERANT SUCTION LINE O.D.* NOTE: Liquid line is 3/8" O.D. for entire length.		0-24 ft.	3/4"	7/8"(4)	7/8"	
		25-39 ft.	7/8" (3)	1-1/8" (3)	1-1/8" (3)	1-1/8" (3)
		40-75 ft.	7/8" (3)	1-1/8" (3)	1-1/8" (3)	1-1/8" (3)
REFRIGERANT CHARGE: (R-410A) in ounces for outdoor unit, indoor unit and 15' line set. (5)			195	251	288	311
APPROXIMATE WEIGHT (LBS.)		Net	253	277	277	301
		Ship	265	289	289	313

- (1) Operating Voltage Range: 187v min. — 253v max.
 (2) HACR Type Circuit Breakers may be used.
 (3) Requires 1 1/8" to 7/4" reducer from line to unit.
 (4) Use of a 3/4" lineset will result in approximately 2% loss in capacity.
 (5) 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. Electrical Specifications & Physical Data

WIRE GAUGE	RECOMMENDED MAXIMUM WIRE LENGTH (FT) FROM UNIT TO THERMOSTAT
22	45
20	70
18	115
16	180

Table 2. Control Wiring (24V)

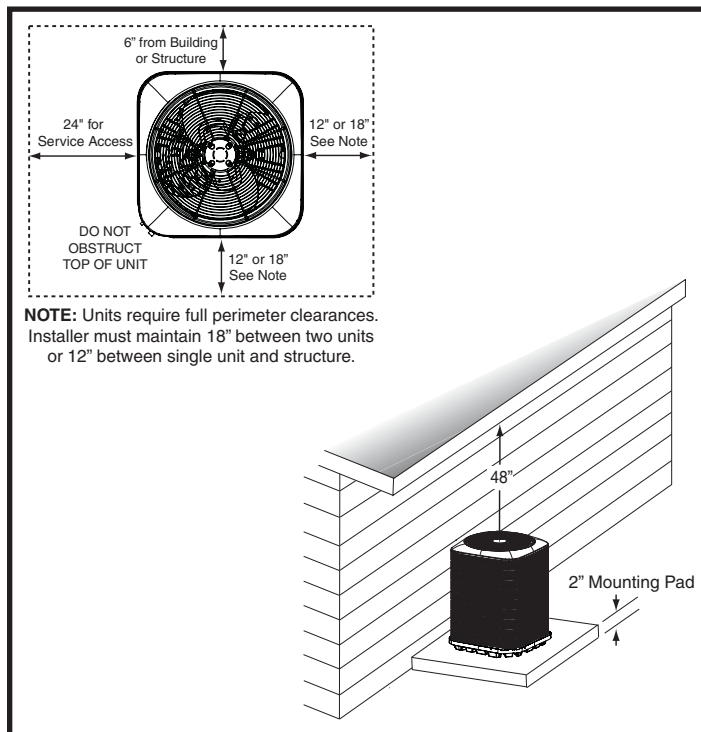


Figure 1. Clearance Requirements

Model PSH4BF Shown			
MODEL NUMBER	HEIGHT (H)	WIDTH (W)	DEPTH (D)
*SH4BF024KB	45 1/2"	31 1/4"	31 1/4"
*SH4BF036KA	45 1/2"	31 1/4"	31 1/4"
*SH4BF048KA	45 1/2"	31 1/4"	31 1/4"
*SH4BF060KA	45 1/2"	31 1/4"	31 1/4"

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 *SH4BF024KB B6VMAX24K-B match the correct TXV is 669564 (NO ADDITIONAL CHARGE IS NECESSARY).
- For the *SH4BF048KA C6B(A,H)-X48(C,U)-C match the correct TXV is 669852 (NO ADDITIONAL CHARGE IS NECESSARY).

ID RESTRICTOR INSTALLED WITH ID UNIT	MODEL NUMBER: *SH4BF		024KB	036KA	048KA	060KA
	OUTDOOR UNIT BOM CHARGE (OZ.)		195	251	288	311
	MODELS	SUPPLIED WITH ID	REQUIRED RESTRICTOR OR TXV (CHARGE ADDITION (OZ) / RATED AIRFLOW -SCFM)			
	B6VM					
	B6VMAX24K-B	669564	669564 (0 / 850)	--	--	--
	B6VMAX36K-B	669566	--	669566 (0 / 1250)	--	--
	B6VMAX48K-C	669568	--	--	669568 (0 / 1700)	--
	B6VMAX60K-C	669578	--	--	--	669578 (0 / 1800)
	C6					
	C6B(A,H)-X26(C,U)-B	669681	669681 (0 / 850)	--	--	--
	C6B(A,H)-X30(C,U)-C	669682	669682 (0 / 700)	--	--	--
	C6B(A,H)-X36(C,U)-B	669683	--	669683 (0 / 850)	--	--
	C6B(A,H)-X36(C,U)-C	669683	--	669683 (0 / 850)	--	--
	C6B(A,H)-X48(C,U)-C	669852	--	--	669852 (0 / 1550)	--
	C6B(A,H)-X48(C,U)-D	669852	--	--	669852 (0 / 1505)	--
C6B(A,H)-X60(C,U)-C	669686	--	--	--	669686 (0 / 1840)	
C6B(A,H)-X60(C,U)-D	669686	--	--	--	669686 (0 / 1840)	

NOTES:

- 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.

**Table 4. REQUIRED RESTRICTOR OR TXV
(CHARGE ADDITION (OZ) / RATED AIRFLOW -SCFM)**

