

# QUICK REFERENCE DATA

## \*SH1BF4M2 SERIES RESIDENTIAL SPLIT SYSTEM HEAT PUMP

16 SEER

MODEL NUMBER *SH1BF4M2SX-			24K	36K	48K	60K
ELECTRICAL DATA	Volts-Cycles-Phase (1)		208/230-60-1			
	Total Amps		12.6	17.8	23.7	31.4
	Delay Fuse Max. (2)		25	35	50	60
	Min. Circuit Ampacity		15.5	21.6	29.0	38.6
CONDENSER DATA	Coil	Area	20.0	25.0	25.0	25.0
		Rows-FPI	1 - 14	1 - 14	1 - 16	1 - 16
		Tube Dia	MC			
	Fan Motor	Type	PSC	BLDC		
		Amps	0.9	2.6	2.6	2.6
		HP	0.13	0.33	0.33	0.33
	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"	7/8"	
		25-39 ft.	7/8" (3)	1-1/8" (4)	1-1/8" (4)	1-1/8" (4)
		40-75 ft.	7/8" (3)	1-1/8" (4)	1-1/8" (4)	1-1/8" (4)
REFRIGERANT CHARGE: (R-410A) in ounces for outdoor unit, indoor unit and 15' line set. (5)			96	100	122	124
APPROXIMATE WEIGHT (LBS.)		Net	180	201	232	234
		Ship	204	226	257	259

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

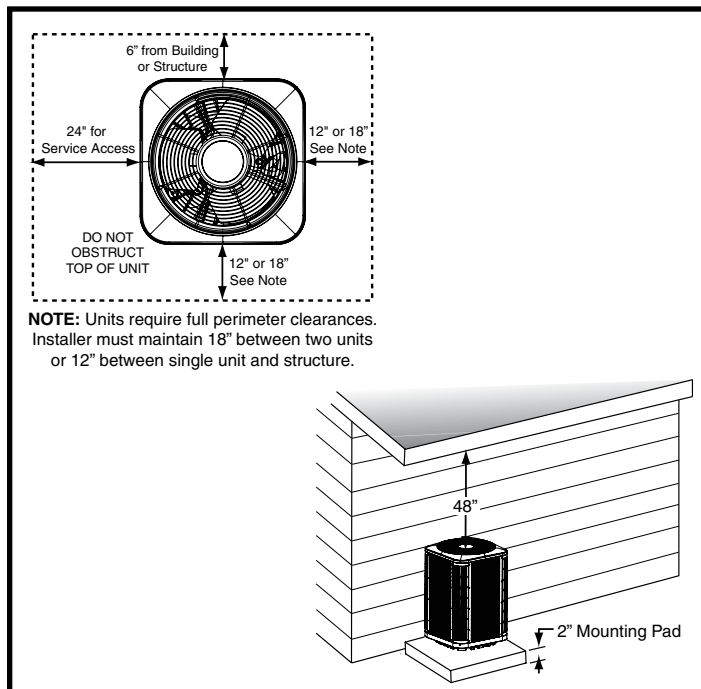


Figure 1. Clearance Requirements

MODEL NUMBER	HEIGHT (H)	WIDTH (W)	DEPTH (D)
*SH1BF4M2SX24K	37 1/4"	31 1/2"	31 1/2"
*SH1BF4M2SX36K	45 1/4"	31 1/2"	31 1/2"
*SH1BF4M2SX48K	45 1/4"	31 1/2"	31 1/2"
*SH1BF4M2SX60K	45 1/4"	31 1/2"	31 1/2"

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 \*SH1BF4M2SX24K B6VMMX24K-B match the correct TXV is 669564 and no additional charge is necessary (NO CHANGES REQUIRED).
- For the \*SH1BF4M2SX36K B6VMMX48K-C match the correct TXV is 669568 and 8 ounces of charge should be added (CHANGE IN CHARGE).

ID RESTRICTOR INSTALLED WITH ID UNIT	MODEL NUMBER: *SH1BF4M2SX		24K	36K	48K	60K
	OUTDOOR UNIT BOM CHARGE (OZ.)		96	100	122	124
	MODELS	SUPPLIED WITH ID	REQUIRED RESTRICTOR OR TXV (CHARGE ADDITION (OZ) / RATED AIRFLOW -SCFM)			
	B6VMMX					
	B6VMMX24K-B	669564	669564 (0 / 855)	--	--	--
	B6VMMX36K-B	669566	--	669566 (0 / 1355)	--	--
	B6VMMX48K-C	669568	--	669568 (8 / 1185)	669568 (0 / 1530)	--
	B6VMMX60K-C	669578	--	--	--	669578 (0 / 1835)
	C7-X					
	C7B(A,H)MX24(C,U)-B	669681	669681 (0 / 860)	--	--	--
	C7B(A,H)MX36(C,U)-B	669683	--	669683 (0 / 1190)	--	--
	C7B(A,H)MX36(C,U)-C	669683	--	669683 (0 / 1190)	--	--
	C7B(A,H)MX48(C,U)-C	669852	--	--	669852 (0 / 1300)	--
	C7B(A,H)MX48(C,U)-D	669852	--	--	669852 (0 / 1300)	--
	C7B(A,H)MX60(C,U)-C	669686	--	--	--	669686 (0 / 1760)
C7B(A,H)MX60(C,U)-D	669686	--	--	--	669686 (0 / 1760)	

**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)**

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.

