QUICK REFERENCE DATA

*SH1BE4M1 SERIES SPLIT SYSTEM HEAT PUMP WITH MICROCHANNEL COILS FOR MANUFACTURED HOUSING

14 SEER

MODEL NUMBER: *SH1BE4M1SP-			24K	30K	36K	42K	48K
	Volts-Cycles-Phase (1)						
Electrical Data	Total Amps		14.4	13.7	15.1	19.4	21.3
	Delay Fuse Max. (2)		30	25	30	40	45
	Min. Circuit Ampacity	Min. Circuit Ampacity		16.9	18.6	23.9	26.3
	Coil	Area	17.5	22.5	25.0	24.4	24.4
		Rows-FPI	1 - 14	1 - 14	1 - 14	1 - 14	1 - 14
		Tube Dia	MC				
Condenser	Fan Motor	Туре	PSC				
Data		Amps	0.9	0.9	1.0	1.5	1.5
		HP	0.13	0.13	0.20	0.25	0.25
	Compressor Data	RLA	13.4	12.8	14.1	17.9	19.8
		LRA	58.3	64.0	77.0	112.0	109.0
0-24 ft.			3/4"	3/4"	7/8"	7/8"	7/8"
NOTE: Liquid line is 3/8" O.D. for entire length.		25-39 ft.	3/4"	3/4"	7/8"	7/8"	7/8"
		40-75 ft.	3/4"	3/4"	7/8"	7/8"	7/8"
Refrigerant charge: (R-410A) in ounces for outdoor unit, indoor unit and 20' line set. (4)		97	104	111	124	122	
Weight Approximate (lbs.) Net Ship		167	182	191	227	226	
		189	206	216	251	251	

- (1) Operating Voltage Range: 187v min. 253v max.
- (2) HACR Type Circuit Breakers may be used.
- (3) Requires 7/8" to 1-1/8" reducer from line to unit.
- (4) Additional charge for line sets above 20 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) $1 \frac{1}{8}$ " = 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

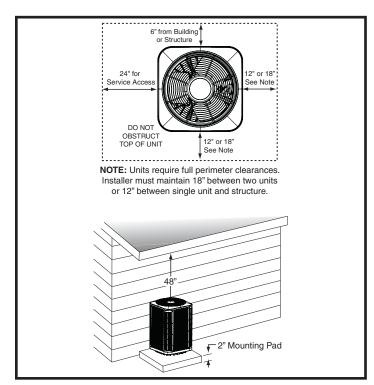


Figure 1. Clearance Requirements

THERMOSTAT	RECOMMENDED T-STAT WIRE UNIT TO T-STAT (LENGTH IN FT)				
WIRE GAUGE	2-WIRE (HEATING)	5-WIRE (HEATING/COOLING)			
24	55	25			
22	90	45			
20	140	70			
18	225	110			

Table 2. Thermostat Wire Gauge

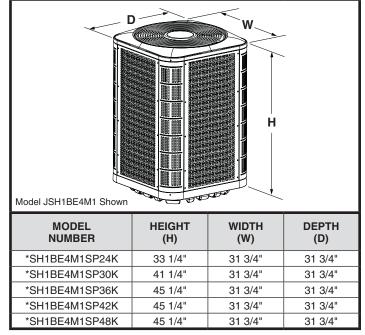


Table 3. Unit Dimensions

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.
- If a change in restrictor is necessary, then the appropriate restrictor will already be supplied with the outdoor unit.

Examples:

- For the *SH1BE4M1SP30K / C8(B,D)AMO1830U-B match, the appropriate TXV is the 920669A" and no additional charge is necessary (NO CHANGES REQUIRED).
- For the *SH1BE4M1SP48K / C8(B,D)AMX49U-B match, the appropriate TXV is 669568 and no additional charge is neccesary. (NO CHANGES REQUIRED).

	MODEL NUMBER: *SH	1BE4M1SP	24K	30K	36K	42K	48K		
	OD RESTRICTOR INSTALLED IN OD UNIT:		0.042	0.051	0.055	0.057	0.060		
	OUTDOOR UNIT BOM CHARGE (OZ.)		97	104	111	124	122		
	MODELS SUPPLIED WITH ID		REQUIRED RESTRICTOR OR TXV (CHARGE ADDITION (OZ) / RATED AIRFLOW (SCFM))						
	C7-X								
D UNIT	C7B(A,H)MX24(C,U)-B	669681	669681 (4 / 810)						
	C7B(A,H)MX30(C,U)-B	669682		669682 (3 / 980)					
	C7B(A,H)MX30(C,U)-C	669682	669682 (4 / 810)	669682 (2 / 980)					
Ħ	C7B(A,H)MX36(C,U)-B	669683			669683 (6 / 1140)				
RESTRICTOR INSTALLED WITH ID UNIT	C7B(A,H)MX36(C,U)-C	669683			669683 (6 / 1140)				
	C7B(A,H)MX42(C,U)-C	669684				669684 (0 / 1205)			
	C7B(A,H)MX48(C,U)-C	669852					669852 (0 / 1510)		
 앉	C8+TXV								
ID RESTRIC	C8(B,D)AM01830U-B+TXV	0.061	920668A (0 / 820)	920669A (0 / 980)					
	C8(B,D)AM036U-B+TXV	0.067			920670A (0 / 1195)				
-	C8-X								
	C8(B,D)AMX24U-B	669564	669564 (0 / 810)						
	C8(B,D)AMX30U-B	669565		669565 (0 / 980)					
	C8(B,D)AMX36U-B	669566			669566 (0 / 1200)				
	C8(B,D)AMX42U-B	669567				669567 (0 / 1355)			
	C8(B,D)AMX49U-B	669568					669568 (0 / 1500)		

NOTES:

- Gray cells require the outdoor restrictor to be changed as well. See Table 5.
- The charges listed are only valid for the standard 20' lineset.
- Part numbers beginning with 669***are TXV part numbers and numbers listed as 0.*** are restrictor diameters.

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

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.

