

QUICK REFERENCE DATA

SA1QD4M1S SERIES SPLIT SYSTEM AIR CONDITIONER WITH QUICK CONNECT COUPLINGS

13 SEER

MODEL NUMBER *SA1QD4M1SN		24K	30K	36K	42K	48K	60K	
ELECTRICAL DATA	Volts-Cycles-Phase (1)	208/230-60-1						
	Total Amps	13.5	14.8	18.0	19.4	23.2	27.8	
	Delay Fuse Max. (2)	25	30	35	40	50	60	
	Min. Circuit Ampacity	16.7	18.3	22.2	23.9	28.7	34.4	
CONDENSER DATA	Coil	Area	8.3	10.0	10.0	15.3	15.3	17.9
		Rows-FPI	1-18					
		Tube Dia	Micro-Channel					
	Fan Motor	Type	PSC					
		Amps	0.7	0.7	1.4	1.5	1.5	1.5
		HP	0.1	0.1	0.25	0.25	0.25	0.25
	Compressor Data	RLA	12.8	14.1	16.6	17.9	21.8	26.4
		LRA	58.3	73.0	79.0	112.0	117.0	134.0
RECOMMENDED REFRIGERANT SUCTION LINE O.D.*		0-24 ft.	3/4"	3/4"	3/4"	7/8"	7/8"	
NOTE: Liquid line is 3/8" O.D. for entire length.		25-39 ft.	3/4"	3/4"	7/8" (3)	7/8"	7/8"	
		40-75 ft.	3/4"	3/4"	7/8" (3)	7/8"	7/8"	
REFRIGERANT CHARGE: R-410A in ounces for outdoor unit, indoor unit, & 15' Lineset		50	51	51	81	76	111.6	
APPROXIMATE WEIGHT (LBS.)	Net	111	118	123	172	172	186	
	Ship	124	133	137	193	193	208	

(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.

* 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)

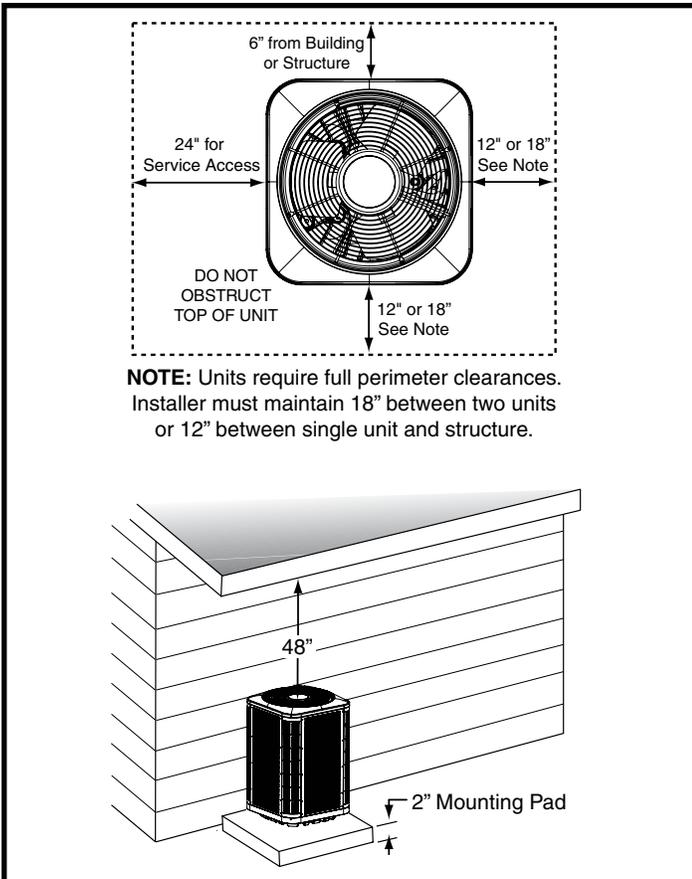


Figure 1. Clearance Requirements

MODEL NUMBER	HEIGHT (H)	WIDTH (W)	DEPTH (D)
*SA1QD4M1SN24K	24 1/2"	23 3/4"	23 3/4"
*SA1QD4M1SN30K	28 1/2"	23 3/4"	23 3/4"
*SA1QD4M1SN36K	28 1/2"	23 3/4"	23 3/4"
*SA1QD4M1SN42K	28 1/2"	31 3/4"	31 3/4"
*SA1QD4M1SN48K	29 1/4"	31 3/4"	31 3/4"
*SA1QD4M1SN60K	33 1/4"	31 3/4"	31 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 *SA1QD4M1SN24K / C8QAM024U-B match, the appropriate restrictor is the 0.055" and no additional charge needs to be added. (NO CHANGES REQUIRED)
- For the *SA1QD4M1SN48K / CM4Q-54U match, the correct TXV is supplied with the indoor unit and no additional refrigerant needs to be added to the system (NO CHANGES REQUIRED).

ID RESTRICTOR INSTALLED WITH ID UNIT	MODEL NO. *SA1QD4M1SN		24K	30K	36K	42K	48K	60K	
	TOTAL SYSTEM CHARGE (OZ.)		50	51	51	81	76	111.6	
	MODELS	SUPPLIED WITH ID	REQUIRED RESTRICTOR OR TXV (CHARGE ADDITION (OZ) / RATED AIRFLOW - SCFM)						
	C8								
	C8QAM024U-B	0.055	0.055 (0 / 705)	--	--	--	--	--	
	C8QAM030U-B	0.061	--	0.061 (0 / 960)	--	--	--	--	
	C8QAM036U-B	0.067	--	--	0.067 (0 / 1190)	--	--	--	
	C8-X								
	C8QVMX42U-C	669567	--	--	--	669567 (-20 / 1265) ‡	--	--	
	C8QVMX48U-C	669568	--	--	--	--	669568 (-15 / 1275) ‡	--	
CM4									
CM4Q-53U	TXV	--	--	--	TXV (0 / 1250)	--	--		
CM4Q-54U	TXV	--	--	--	--	TXV (0 / 1450)	TXV (0 / 1450)		
CM4Q-55U	TXV	--	--	--	--	TXV (0 / 1500)	--		
CM4Q-56U	TXV	--	--	--	--	--	TXV (0 / 1600)		

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.
- ‡ Requires REMOVAL of refrigerant from unit.

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.

