

QUICK REFERENCE DATA

SA1QD4M1S SERIES SPLIT SYSTEM AIR CONDITIONER WITH QUICK CONNECT COUPLINGS

14 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 |
| | | LRA | 58.3 | 73.0 | 79.0 | 112.0 | 117.0 | 134.0 |
| RECOMMENDED 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" | |
| | 25-39 ft. | 3/4" | 3/4" | 7/8" (3) | 7/8" | 7/8" | 1 1/8 (4) | |
| | 40-75 ft. | 3/4" | 3/4" | 7/8" (3) | 7/8" | 7/8" | 1 1/8 (4) | |
| REFRIGERANT CHARGE: R-410A in ounces for outdoor unit, indoor unit, & 15' Lineset | | 46 | 40 | 51 | 81 | 76 | 111.6 | |
| APPROXIMATE WEIGHT (LBS.) | Net | DATA UNAVAILABLE AT TIME OF PRINT | | | | | | |
| | Ship | | | | | | | |

(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

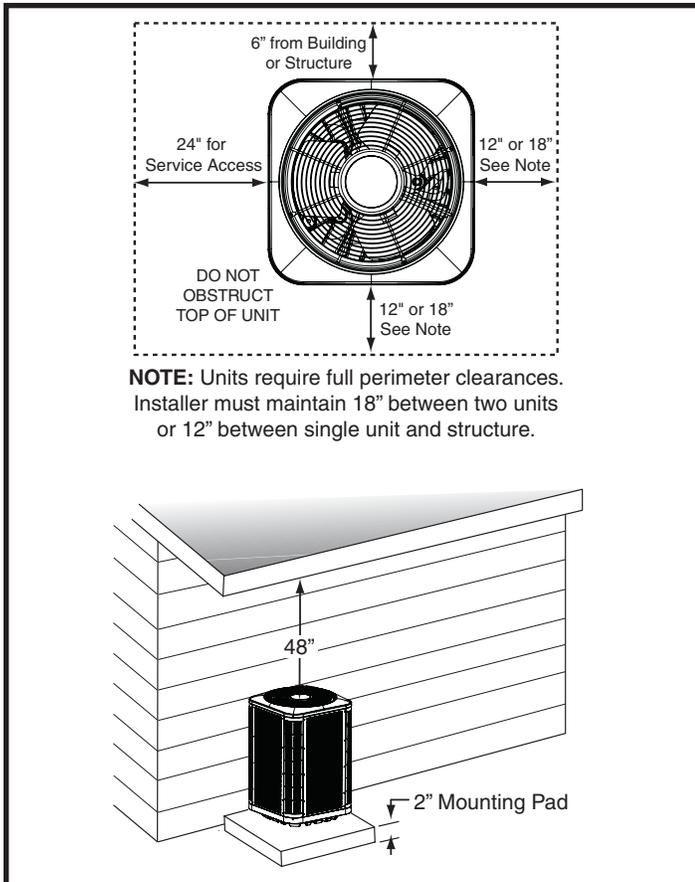


Figure 1. Clearance Requirements

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

Table 2. Control Wiring (24V)

| 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.) | | 46 | 40 | 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.

