

# QUICK REFERENCE DATA

## GSA2BD4M Series Split System Air Conditioner for Manufactured Housing

13 SEER

| MODEL NUMBER: GSA2BDM  |             | 1SN24KA | 1RN30KA | 1RN36KA  | 1SN42K | 1SN48K |
|--|-------------|---------|---------|----------|--------|--------|
| <b>RECOMMENDED REFRIGERANT SUCTION LINE O.D</b><br>NOTE: Liquid line is 3/8" O.D. for entire length. | 0 - 24 ft.  | 3/4"    | 3/4"    | 3/4"     | 7/8"   | 7/8"   |
|  | 25 - 39 ft. | 3/4"    | 3/4"    | 7/8" (1) | 7/8"   | 7/8"   |
|  | 40 - 75 ft. | 3/4"    | 3/4"    | 7/8" (1) | 7/8"   | 7/8"   |
| <b>REFRIGERANT CHARGE</b><br>R-410A in ounces for outdoor unit & 20' Lineset. (2)                    |             | 55      | 64      | 81       | 91     | 86     |

- (1) Requires 7/8" to 3/4" reducer from line to unit.  
 (2) 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 1/8" = 0.8 oz. per additional foot.

Table 1. Physical Data

\*For other line set dimensions, refer to the Application Guidelines for Refrigerant Lines Addendum.

| MODEL NUMBER: GSA2BD4M                      |                  | 1SN24KA   | 1RN30KA                      | 1RN36KA                         | 1SN42K                  | 1SN48K |
|---|------------------|---|------------------------------|---------------------------------|-------------------------|--------|
| <b>ID RESTRICTOR SUPPLIED WITH OD UNIT:</b> |                  | 664055  | --                           | --                              | --                      | --     |
| <b>OUTDOOR UNIT BOM CHARGE (OZ.)</b>        |                  | 55  | 64                           | 81                              | 91                      | 86     |
| MODELS                                      | SUPPLIED WITH ID | REQUIRED RESTRICTOR OR TXV<br>(CHARGE ADDITION (OZ) / RATED AIRFLOW (SCFM)) |                              |                                 |                         |        |
| <b>C8</b>                                   |                  |   |                              |                                 |                         |        |
| C8(B,D)AM01830U-B                           | 0.061            | <b>0.055</b><br>(0 / 690)   | 0.061<br>(0 / 1050)          | --                              | --                      | --     |
| C8(B,D)AM036U-B                             | 0.067            | --  | --                           | 0.067<br>(0 / 1100)             | --                      | --     |
| C8(B,D)AM036U-B+TXV                         | 0.071            | --  | --                           | --                              | 0.071<br>(-13 / 1290) ‡ | --     |
| <b>C8+TXV</b>                               |                  |   |                              |                                 |                         |        |
| C8(B,D)AM01830U-B+TXV                       | 0.061            | --  | <b>920669A</b><br>(4 / 1005) | --                              | --                      | --     |
| C8(B,D)AM036U-B+TXV                         | 0.067            | --  | --                           | <b>920670A</b><br>(-4 / 1170) ‡ | --                      | --     |

**NOTES:**

- ‡ Requires **REMOVAL** of refrigerant from unit.
- The charges listed are only valid for the standard 20' lineset.
- Metering devices with part numbers beginning with 664\*\*\* are fixed orifices. The final 3 numbers are the orifice size. For example, 664055 is a 0.055" fixed orifice.

**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.**

Instructions:

- Find the column for the model of outdoor unit that is being installed.
- Find the row for the model of the indoor unit that is being installed.
- 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 GSA2BD4M1SN24KA / C8(B,D)AM01830U-B match the appropriate restrictor is the 0.055" and no additional charge needs to be added. (CHANGE IN RESTRICTOR).
- For the GSA2BD4M1SN48K / C8(B,D)AM042U-B match the appropriate restrictor is the 0.071 and 13 ounces should be removed from the system. (CHANGE IN CHARGE).

Table 2. Restrictor or TXV / Charge Addition (Oz)

**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 GSA2BD4M1SN24KA / C8(B,D)AM01830U-B match the appropriate restrictor is the 0.055" and no additional charge needs to be added. (CHANGE IN RESTRICTOR).
- For the GSA2BD4M1SN48K / C8(B,D)AM042U-B match the appropriate restrictor is the 0.071 and 13 ounces should be removed from the system. (CHANGE IN CHARGE).

| MODEL NUMBER: GSA2BD4M               |                  | 1SN24KA  | 1RN30KA              | 1RN36KA                 | 1SN42K                   | 1SN48K                   |
|--------------------------------------|------------------|--|----------------------|-------------------------|--------------------------|--------------------------|
| ID RESTRICTOR SUPPLIED WITH OD UNIT: |                  | 664055   | --                   | --                      | --                       | --                       |
| OUTDOOR UNIT BOM CHARGE (OZ.)        |                  | 55   | 64                   | 81                      | 91                       | 86                       |
| MODELS                               | SUPPLIED WITH ID | REQUIRED RESTRICTOR OR TXV (CHARGE ADDITION (OZ) / RATED AIRFLOW (SCFM)) |                      |                         |                          |                          |
| <b>C8-X</b>                          |                  |  |                      |                         |                          |                          |
| C8(B,D)AMX24U-B                      | 669564           | --   | --                   | --                      | --                       | --                       |
| C8(B,D)AMX30U-B                      | 669565           | --   | 669565<br>(4 / 1005) | --                      | --                       | --                       |
| C8(B,D)AMX36U-B                      | 669566           | --   | --                   | 669566<br>(-5 / 1255) ‡ | --                       | --                       |
| C8(B,D)VMX42U-C                      | 669567           | --   | --                   | --                      | 669567<br>(-17 / 1265) ‡ | --                       |
| C8(B,D)VMX48U-C                      | 669568           | --   | --                   | --                      | --                       | 669568<br>(-15 / 1430) ‡ |
| <b>CM4B</b>                          |                  |  |                      |                         |                          |                          |
| CM4B-53U                             | TXV              | --   | --                   | --                      | TXV<br>(0 / 1250)        | --                       |
| CM4B-54U                             | TXV              | --   | --                   | --                      | TXV<br>(0 / 1250)        | TXV<br>(0 / 1450)        |
| CM4B-56U                             | TXV              | --   | --                   | --                      | --                       | TXV<br>(10 / 1500)       |

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**Table 2. Restrictor or TXV / Charge Addition (Oz) - Continued**

