

# QUICK REFERENCE DATA

## GSA2BD4M Series Split System Air Conditioner for Manufactured Housing

13 SEER

MODEL NUMBER: GSA2BDM		1RN24KA	1RN30KA	1RN36KA	1SN42K	1SN48K
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"
	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"
REFRIGERANT CHARGE R-410A in ounces for outdoor unit & 20' Lineset. (2)		64	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.

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

Table 1. Physical Data

MODEL NUMBER: GSA2BD4M		1RN24KA	1RN30KA	1RN36KA	1SN42K	1SN48K
ID RESTRICTOR SUPPLIED WITH OD UNIT:		0.055	--	--	--	--
OUTDOOR UNIT BOM CHARGE (OZ.)		64	64	81	91	86
MODELS	SUPPLIED WITH ID	REQUIRED RESTRICTOR OR TXV (CHARGE ADDITION (OZ) / RATED AIRFLOW (SCFM))				
C8						
C8(B,D)AM01830U-B	0.061	0.055 (0 / 850)	0.061 (0 / 1050)	--	--	--
C8(B,D)AM036U-B	0.067	--	--	0.067 (0 / 1100)	--	--
C8(B,D)AM036U-B+TXV	0.071	--	--	--	0.071 (-13 / 1290) ‡	--
C8+TXV						
C8(B,D)AM01830U-B+TXV	0.061	920669A (0 / 795)	920670A (4 / 1005)	--	--	--
C8(B,D)AM036U-B+TXV	0.067	--	--	920670A (-4 / 1170) ‡	--	--

### NOTES:

‡ Requires **REMOVAL** of refrigerant from unit.

• The charges listed are only valid for the standard 20' lineset.

• Numbers listed as 0.\*\*\* are restrictor diameters, while numbers listed as 669\*\*\* are TXV part numbers.

**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 GSA2BD4M1RN24KA / 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 GSA2BD4M1RN24KA / 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).

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ID RESTRICTOR SUPPLIED WITH OD UNIT:		0.055	--	--	--	--
OUTDOOR UNIT BOM CHARGE (OZ.)		64	64	81	91	86
MODELS	SUPPLIED WITH ID	REQUIRED RESTRICTOR OR TXV (CHARGE ADDITION (OZ) / RATED AIRFLOW (SCFM))				
C8-X						
C8(B,D)AMX24U-B	669564	669564 (0 / 795)	--	--	--	--
C8(B,D)AMX30U-B	669565	--	669565 (4 / 1005)	--	--	--
C8(B,D)AMX36U-B	669566	--	--	669566 (-5 / 1255) ‡	--	--
C8(B,D)VMX42U-C	669567	--	--	--	669567 (-17 / 1265) ‡	--
C8(B,D)VMX48U-C	669568	--	--	--	--	669568 (-15 / 1430) ‡
CM4B						
CM4B-53U	TXV	--	--	--	TXV (0 / 1250)	--
CM4B-54U	TXV	--	--	--	TXV (0 / 1250)	TXV (0 / 1450)
CM4B-56U	TXV	--	--	--	--	TXV (10 / 1500)

**NOTES:**

‡ Requires **REMOVAL** of refrigerant from unit.

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- Numbers listed as 0.\*\*\* are restrictor diameters, while numbers listed as 669\*\*\* are TXV part numbers.

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

