

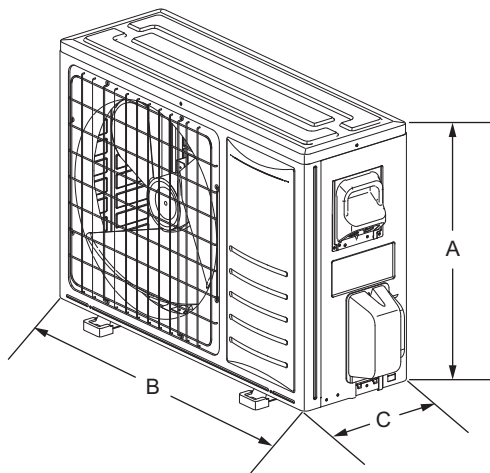
# Tabular Data Sheet

## HMCG2 Series - Horizontal Discharge Modulating Air Conditioning 16 SEER2 - R-410A - Single-Phase - 2 nominal ton to 5 nominal ton Models: HMCG22B24 to HMCG22B60

### Physical and electrical data

Model	HMCG22B241S	HMCG22B361S	HMCG22B481S	HMCG22B601S
Unit supply voltage	208/230 V, 1 phase, 60 Hz			
Normal voltage range <sup>1</sup>	198 to 253			
Minimum circuit ampacity	15	23	35	35
Maximum overcurrent device (A) <sup>2</sup>	25	35	50	50
Minimum overcurrent device (A) <sup>3</sup>	15	23	35	35
Compressor	Type	Twin rotary	Twin rotary	Twin rotary
	Rated load (A)	11.0	16.1	26.0
	Locked rotor (A)	—	—	—
Crankcase heater (base heater)	—	—	—	—
Factory discharge muffler	No	No	No	No
Hard start kit required with TXV	—	—	—	—
Fan motor	Type	ECM	ECM	ECM
	Quantity	1	1	2
	Rated HP	1/12	1/7	1/6
	Nominal RPM	880	880	810
Coil	Nominal CFM	1825	2235	3525
	Face area (ft <sup>2</sup> )	6.1	7.5	14.0
	Rows deep	2	2	2
Coil	Fins per inch	18	17	17
	Liquid lineset outdoor (field installed)	3/8	3/8	3/8
Vapor lineset outdoor (field installed)	5/8	5/8	7/8	7/8
Unit charge (lb-oz) <sup>4</sup>	4 - 8	6 - 3	8 - 13	9 - 9
Charge (oz/ft) <sup>5</sup>	0.38	0.38	0.38	0.38
Operating weight (lb)	99	117	206	207

1. Rated in accordance with AHRI Standard 110-2012, utilization range A.
2. Dual element fuses or HACR circuit breaker. Maximum allowable overcurrent protection.
3. Dual element fuses or HACR circuit breaker. Minimum recommended overcurrent protection.
4. Unit charge is as per 25 ft refrigeration piping.
5. For applications with non-standard vapor line sizes, refer to the *Accessories* section in the *Technical Guide*.



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### Dimensions

Unit model	Dimensions (in.)			Refrigerant connection service valve size (in.)	
	A	B	C	Liquid	Vapor
HMCG22B241S	26 3/8	33 7/8	12 1/4	3/8	5/8
HMCG22B361S	29 1/2	35 3/8	13 3/8		5/8
HMCG22B481S	54 5/8	37 3/8	13 3/8		7/8
HMCG22B601S	54 5/8	37 3/8	13 3/8		7/8

#### Notes:

- All dimensions are in inches and are subject to change without notice.
- The overall height is from the bottom of the base pan to the top of the fan guard.
- The overall length and width include screw heads.

## System charge for various matched systems

Outdoor unit	HMCG22B241S	HMCG22B361S	HMCG22B481S	HMCG22B601S
Required TXV <sup>1,2</sup>	BA1	BA1	BC1	BC1
Indoor unit <sup>3,4</sup>	Additional charge (oz)			
JHETB18B	0	—	—	—
JHETB24C	0	-6.7	—	—
JHETB36D	—	0.0	—	—
JHETC36D	—	0.0	—	—
JHETC42F	—	4.5	-11.2	—
JHETC48G	—	—	0	—
JHETD48G	—	—	0	—
JHETC60H	—	—	0	0
JHETD60H	—	—	0	0
JHETD60J	—	—	—	0
JHVTB18B	0	—	—	—
JHVTB24C	0	-6.7	—	—
JHVTB36D	—	0.0	—	—
JHVTC36D	—	0.0	—	—
JHVTC42F	—	4.5	-11.2	—
JHVTC48G	—	—	0	—
JHVTD48G	—	—	0	—
JHVTC60H	—	—	0	0
JHVTD60H	—	—	0	0
JHVTD60J	—	—	—	0
XAF/XAU/XAHA24B	0	—	—	—
XAF/XAHB24B	0	—	—	—
XAF/XAU/XAHB30C	0	-6.7	—	—
XAF/XAHC30C	0	-6.7	—	—
XAF/XAU/XAHB36D	—	0.0	—	—
XAF/XAHC36D	—	0.0	—	—
XAF/XAU/XAHC48F	—	4.5	-11.2	—
XAF/XAHD48F	—	4.5	-11.2	—
XAF/XAU/XAHC60G	—	—	0	—
XAF/XAU/XAHD60G	—	—	0	—
XAF/XAHC60H	—	—	0	0
XAF/XAU/XAHD60H	—	—	0	0
XAF/XAHD60J	—	—	—	0

**Note:** Some of the combinations shown in the table require advanced main air circulating fan indoor product. For approved coil-only matches, refer to the *System capacity - upflow, downflow, and horizontal furnaces and coils* table in the *Technical Guide*.

- For applications that require a TXV, use S1-1TVM\*\*\* series kit.
- A TXV kit must be used with these indoor units to obtain system performance.
- Systems matched with furnaces or air handlers not equipped with blower-off delays may require blower time delay.
- The charge adders shown in the table do not indicate that coils are rated for every application. Refer to the performance data tables in the *Technical Guide* for actual performance for specified system matches. Obtain certified system ratings from [www.ahridirectory.org](http://www.ahridirectory.org).

### Charging

- Check the unit factory charge listed on the unit nameplate to verify the refrigerant charge for the outdoor unit, the smallest matched indoor unit, and 25 ft of interconnecting refrigeration piping.
- Verify the TXV and additional charge required for the specific matched indoor unit in the system using the *System charge for various matched systems* table.
- Add additional charge for the amount of interconnecting refrigeration piping greater than 25 ft at the rate specified in the *Physical and electrical data* table.
- For indoor matches requiring additional charge, weigh in the refrigerant for the specific matched indoor unit and the actual refrigeration piping length.
- After weighing in the charge adders for the matched indoor unit and refrigeration piping, verify the system operation against the temperatures and pressures in the charging chart for the outdoor unit. Locate the charging charts on the outdoor unit and also in the *Service Data Application Guide* on [www.simplygettingthejob-done.com](http://www.simplygettingthejob-done.com). Follow the charging procedure in the *Installation Manual* according to the type of indoor metering device in the system, and allow 10 min after each charge adjustment for the system operation to stabilize. Record the charge adjustment made to match the charging chart.
- For downflow installations and horizontal right installations, some indoor units require additional charging adjustments to ensure correct equipment operation. Refer to the *Installation Manual* for the outdoor unit.
- Permanently stamp the unit nameplate with the total system charge, which is defined as follows: total system charge = base charge (as shipped) + charge adder for matched indoor unit + charge adder for actual refrigeration piping length + charge adjustments to match the charging chart.