Tabular Data Sheet

Split System Air Conditioners

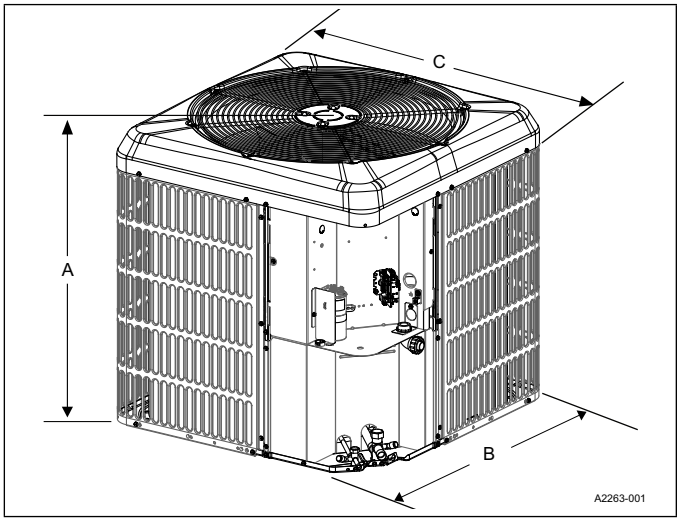
13.4 SEER2 – R-454B – 1 Phase – 1.5 to 5 Nominal Ton
Models: BOVA-18AXB-M13O to BOVA-60AXB-M13O

Physical and electrical data

Model		BOVA-18AXB-M13O	BOVA-24AXB-M13O	BOVA-30AXB-M13O	BOVA-36AXB-M13O	BOVA-42AXB-M13O	BOVA-48AXB-M13O	BOVA-60AXB-M13O
Unit supply voltage		208-230 V, 1ϕ, 60 Hz						
Normal voltage range[1] (V)		187 to 252						
Minimum circuit ampacity (A)		9.1	12.7	16.3	18.2	19.2	29.3	30.9
Maximum overcurrent device (A)[2]		15	20	25	30	30	50	50
Minimum overcurrent device (A)[3]		15	15	20	20	20	30	35
Compressor	Type[4]	Rotary	Rotary	Scroll	Scroll	Scroll	Scroll	Scroll
	Rated load (A)	6.7	9.6	12.5	13.5	14.3	22.4	23.7
	Locked rotor (A)	33.0	53.0	67.0	82.5	95.0	126.0	157.0
Crankcase heater		No	No	No	No	No	No	No
Factory external discharge muffler		No	No	No	No	No	No	No
Hard start kit required with TXV[5]		Yes	Yes	No	No	No	No	No
Hard start kit part number (77590153**)		40	40	39	39	39	39	39
Fan diameter (in.)		18	18	18	18	22	24	26
Fan motor	Rated HP	1/12	1/8	1/8	1/4	1/4	1/4	1/4
	Rated load (A)	0.64	0.70	0.70	1.33	1.30	1.30	1.30
	Nominal RPM	1000	1100	1100	1100	850	850	850
	Nominal CFM	1900	2150	2150	2575	3275	3500	4300
Coil	Face area (sq ft)	9.74	12.47	13.84	13.84	17.31	18.70	23.33
	Rows deep	1	1	1	1	1	1	1
	Fins per inch	23	23	23	23	23	23	23
Liquid refrigerant piping outdoor (field-installed)		3/8	3/8	3/8	3/8	3/8	3/8	3/8
Vapor refrigerant piping outdoor (field-installed)[6]		3/4	3/4	3/4	3/4	7/8	7/8	1-1/8‡
Unit charge (lb - oz)[7]		2-6	2-12	2-13	2-14	2-15	3-4	3-10
Charge (oz/ft)		0.57	0.57	0.57	0.57	0.60	0.60	0.67
Operating weight (lb)		120	135	140	140	195	210	230

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. Rotary compressor models are limited to an equivalent length of refrigerant piping of 100 ft with no exceptions.
5. Refer to the *Hard Start Kit Accessory Installation Manual* for the hard start kit part number for each model. The hard start kit is a factory-installed accessory for BOVA-18AXB-M13O and BOVA-24AXB-M13O models, but it is a field-installed accessory for the rest of the models mentioned in the table above.
6. For applications with non-standard vapor line sizes, refer to the *Applications and accessories* section in the *Technical Guide*.
7. The unit charge is correct for the outdoor unit, smallest matched indoor unit, and 15 ft of refrigerant tubing. For tubing lengths other than 15 ft, add or subtract the amount of refrigerant, using the difference in actual refrigerant piping length (not the equivalent length) multiplied by the per foot value.

‡ The adapter fitting must be field-installed for the required 1 1/8 in. refrigerant piping.



Dimensions

Unit model	Dimensions (in.)			Refrigerant connection service valve size (in.)	
	A	B	C	Liquid	Vapor
BOVA-18AXB-M13O	26 3/4	24	24	3/8	3/4
BOVA-24AXB-M13O	33 1/4	24	24		
BOVA-30AXB-M13O	36 1/4	24	24		
BOVA-36AXB-M13O	36 1/4	24	24		
BOVA-42AXB-M13O	36 1/4	29 1/4	29 1/4		7/8
BOVA-48AXB-M13O	33 1/4	35 1/4	31 3/4		
BOVA-60AXB-M13O	36 1/4	38	34 1/4		7/8‡

Notes:

‡ Adapter fitting must be field-installed for the required 1 1/8 in. refrigerant piping.
All dimensions are in inches and are subject to change without notice.
Overall height is from the bottom of the base pan to the top of the fan guard.
Overall length and width include screw heads.

System charge for various matched systems

Outdoor unit	BOVA-18	BOVA-24	BOVA-30	BOVA-36	BOVA-42	BOVA-48	BOVA-60
Required indoor metering device[1,2]	**7759015337**	**7759015337**	**7759015337**	**7759015338**	**7759015338**	**7759015338**	**7759015338**
Indoor unit[3,4,5]	**Additional charge (oz)**						
BMAT24B**B	6	5	5	—	—	—	—
BMAT30C**C	—	6	6	—	—	—	—
BMAT30B**Z	—	9	8	—	—	—	—
BMAT36C**D	—	—	13	12	11	—	—
BMAT60C**H	—	—	—	—	—	—	23
BMAT18A**A	4	2	—	—	—	—	—
BMAT24A**B	6	5	5	—	—	—	—
BMAT30B**C	—	6	6	—	—	—	—
BMAT36B**D	—	—	13	12	11	—	—
BMAT48C**F	—	—	—	—	17	12	16
BMAT60C**G	—	—	—	—	—	16	19
BMAT42C**E	—	—	—	14	14	8	—
Note: Some of the combinations shown in this table require advanced main air circulating fan indoor product.							

1. For applications that require a TXV, use 77590153** series kit.
2. Use a TXV kit with these indoor units to obtain system performance.
3. Systems matched with furnaces or air handlers not equipped with blower-off delays may require blower time delay.
4. BMAT coils can be used in horizontal, upflow or downflow applications.
5. Charge adders shown above 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.

Charging

1. Check the factory unit charge listed on the unit nameplate to verify the refrigerant charge for the outdoor unit, the smallest matched indoor unit, and the 15 ft of interconnecting refrigeration piping.
2. Verify the indoor metering device and additional charge required for the specific matched indoor unit in the system using the table above.
3. Add additional charge for the amount of interconnecting refrigeration piping greater than 15 ft at the rate specified in the *Physical and electrical data* table.
4. For installations requiring additional charge, weigh in refrigerant for the specific matching indoor unit and actual refrigeration piping length.
5. 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 on www.bosch-homecomfort.us. Follow the subcool or superheat 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.
6. Permanently stamp the unit nameplate with the total system charge 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.

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