Tabular Data Sheet

Split System Air Conditioners

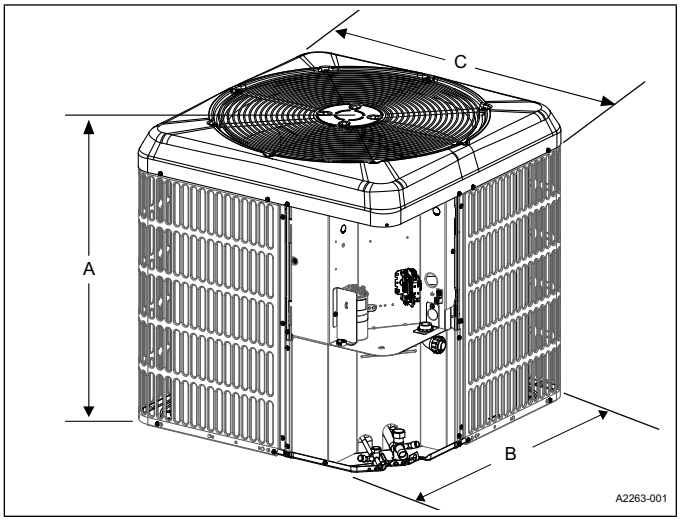
14.3 SEER2 – R-454B – 1 Phase – 1.5 to 5 Nominal Ton
Models: BOVA-18AXB-M14O to BOVA-60AXB-M14O

Physical and electrical data

Model		BOVA-18AXB	BOVA-24AXB	BOVA-25AXB	BOVA-30AXB	BOVA-36AXB	BOVA-42AXB	BOVA-48AXB	BOVA-60AXB
Unit supply voltage		208-230 V, 1ϕ, 60 Hz							
Normal voltage range[1]		187 to 252							
Minimum circuit ampacity		9.0	13.4	13.4	16.2	19.0	18.9	29.1	30.7
Maximum overcurrent device (A)[2]		15	20	20	25	30	30	50	50
Minimum overcurrent device (A)[3]		15	15	15	20	20	20	30	35
Compressor	Type[4]	1-stage rotary	1-stage scroll	1-stage scroll	1-stage scroll	1-stage scroll	1-stage scroll	1-stage scroll	1-stage scroll
	Rated load (A)	6.7	10.2	10.2	12.5	14.4	14.3	22.4	23.7
	Locked rotor (A)	33.0	60.2	60.2	67.0	86.0	95.0	126.0	157.0
Crankcase heater		No	No	No	No	No	No	No	No
Factory external discharge muffler		No	No	No	No	No	No	No	No
Hard start kit required with TXV[5]		Yes	No	No	No	No	No	No	No
Hard start kit part number (77590153**)		40	39	39	39	39	39	39	39
Fan diameter (in.)		18	22	18	22	24	26	24	26
Fan motor	Type	PSC	PSC	PSC	PSC	PSC	PSC	PSC	PSC
	Rated HP	1/12	1/12	1/12	1/12	1/4	1/4	1/4	1/4
	Rated load (A)	0.64	0.64	0.64	0.64	1.30	1.05	1.30	1.05
	Nominal RPM	1000	1000	1000	1000	850	850	850	850
	Nominal CFM	1900	2275	1900	2275	3500	4300	3550	4300
Coil	Face area (sq ft)	12.47	13.83	13.84	19.22	18.74	23.40	21.06	27.40
	Rows deep	1	1	1	1	1	1	1	1
	Fins per inch	23	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	3/8
Vapor refrigerant piping outdoor (field-installed)[6]		3/4	3/4	3/4	3/4	3/4	7/8	7/8	1 1/8‡
Unit charge (lb - oz)[7]		2-10	2-10	2-11	3-0	3-2	3-6	3-11	5-3
Charge (oz/ft)		0.57	0.57	0.57	0.57	0.57	0.60	0.60	0.67
Operating weight (lb)		135	150	140	165	185	230	215	235

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-M14O model, 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-M14O	33 1/4	24	24	3/8	3/4
BOVA-24AXB-M14O	30	29 1/4	29 1/4		
BOVA-25AXB-M14O	36 1/4	24	24		
BOVA-30AXB-M14O	39 1/2	29 1/4	29 1/4		
BOVA-36AXB-M14O	33 1/4	35 1/4	31 3/4		
BOVA-42AXB-M14O	36 1/4	38	34 1/4		7/8
BOVA-48AXB-M14O	36 1/4	35 1/4	31 3/4		
BOVA-60AXB-M14O	42 3/4	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-25	BOVA-30	BOVA-36	BOVA-42	BOVA-48	BOVA-60
Required indoor metering device[1,2]	7759015337	7759015337	7759015337	7759015337	7759015338	7759015338	7759015338	7759015338
Indoor unit[3,4,5]	Additional charge (oz)							
BMAT18A**A	2	4	2	—	—	—	—	—
BMAT24A**B	4	5	5	7	—	—	—	—
BMAT24B**B	4	5	5	7	—	—	—	—
BMAT30B**C	8	6	6	8	—	—	—	—
BMAT30B**Z	—	11	11	11	—	—	—	—
BMAT30C**C	8	6	6	8	—	—	—	—
BMAT36B**D	—	—	—	12	12	11	—	—
BMAT36C**D	—	—	—	12	12	11	—	—
BMAT42C**E	—	—	—	—	14	14	7	—
BMAT48C**F	—	—	—	—	—	17	12	—
BMAT60C**H	—	—	—	—	—	—	—	23
BMAT60C**G	—	—	—	—	—	—	16	19
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 and also 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.

Subject to change without notice. Published in Mexico.
Copyright © 2026 by Bosch Thermotechnology Corp. All rights reserved.

6762878-BTD-A-0826
Supersedes: Nothing

Bosch Thermotechnology Corp.
50 Wentworth Avenue
Londonderry, NH 03053