

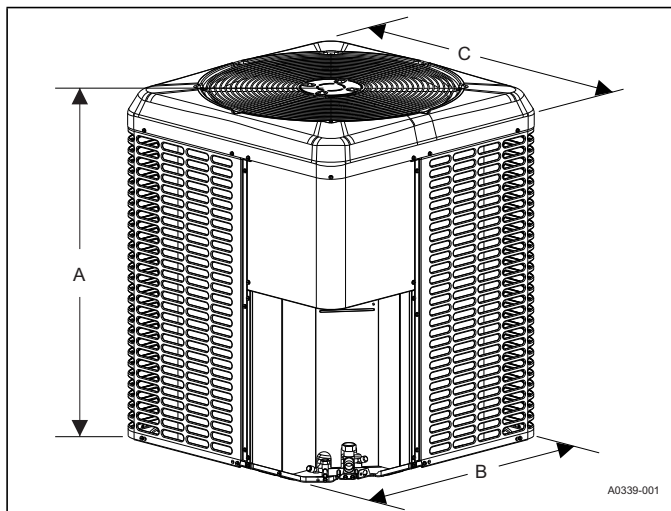
TABULAR DATA SHEET

RAC SERIES SPLIT SYSTEM AIR CONDITIONERS 14.0 SEER – R-410A – 1 PHASE – 1.5 THRU 5 NOMINAL TONS MODELS: RAC14L18 THRU 60

PHYSICAL AND ELECTRICAL DATA

MODEL	RAC14L18 B23S	RAC14L24 B23S	RAC14L30 B23S	RAC14L36 B23S	RAC14L42 B23S	RAC14L48 B23S	RAC14L60 B23S
Unit Supply Voltage	208-230V, 1 ϕ , 60Hz						
Normal Voltage Range ¹	187 to 252						
Minimum Circuit Ampacity	12.7	14.8	18.4	19.6	25.3	25.7	31.7
Max. Overcurrent Device Amps ²	20	25	30	30	40	45	50
Min. Overcurrent Device Amps ³	15	15	20	20	30	30	35
Compressor Type	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll
Compressor Amps	Rated Load	9.7	11.2	14.1	14.7	19.2	24.3
	Locked Rotor	46.0	60.8	73.0	75.0	123.9	144.2
Crankcase Heater	No	No	No	No	No	No	No
Factory External Discharge Muffler	No	No	No	No	No	No	No
HS Kit Required with TXV	No	No	No	No	No	No	No
HS Kit Part Number (S1-2SA067*****) ⁴	21806	21806	10106	10106	10106	10106	10106
Fan Diameter Inches	18	22	22	22	22	24	26
Fan Motor	Rated HP	1/12	1/8	1/8	1/4	1/4	1/4
	Rated Load Amps	0.64	0.80	0.80	1.30	1.30	1.30
	Nominal RPM	1050	1075	1075	850	850	850
	Nominal CFM	1900	1950	2850	3225	3275	3500
Coil	Face Area Sq. Ft.	11.07	12.21	12.21	13.83	17.37	23.40
	Rows Deep	1	1	1	1	1	1
	Fins / Inch	23	23	23	23	23	23
Liquid Line Set OD (Field Installed)	3/8	3/8	3/8	3/8	3/8	3/8	3/8
Vapor Line Set OD (Field Installed) ⁵	3/4	3/4	3/4	3/4	7/8	7/8	1-1/8 [‡]
Unit Charge (Lbs. - Oz.) ⁶	3 - 8	3 - 12	3 - 14	4 - 1	4 - 12	4 - 15	5 - 12
Charge Per Foot, Oz.	0.62	0.62	0.62	0.62	0.67	0.67	0.75
Operating Weight Lbs.	140	155	155	180	215	200	205

- Rated in accordance with AHRI Standard 110-2012, utilization range "A".
- Dual element fuses or HACR circuit breaker. Maximum allowable overcurrent protection.
- Dual element fuses or HACR circuit breaker. Minimum recommended overcurrent protection.
- Use S1-2SA067**** series kit. See Hard Start Kit Accessory Installation Manual.
- For applications with non-standard vapor line sizes, see the "Applications & Accessories" section of this Technical Guide.
- The Unit Charge is correct for the outdoor unit, smallest matched indoor unit, and 15 feet of refrigerant tubing. For tubing lengths other than 15 feet, add or subtract the amount of refrigerant, using the difference in actual lineset length (not equivalent length) multiplied by the per foot value.



DIMENSIONS

Unit Model	Dimensions (Inches)			Refrigerant Connection Service Valve Size	
	A	B	C	Liquid	Vapor
RAC14L18B23S	30	24	24	3/8	3/4
RAC14L24B23S	26-3/4	29-1/4	29-1/4		
RAC14L30B23S	26-3/4	29-1/4	29-1/4		
RAC14L36B23S	30	29-1/4	29-1/4		
RAC14L42B23S	36-1/4	29-1/4	29-1/4		7/8
RAC14L48B23S	33-1/4	35-1/4	31-3/4		7/8 [‡]
RAC14L60B23S	36-1/4	38	34-1/4		

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

SYSTEM CHARGE FOR VARIOUS MATCHED SYSTEMS

Outdoor Unit	RAC14L18 B23S	RAC14L24 B23S	RAC14L30 B23S	RAC14L36 B23S	RAC14L42 B23S	RAC14L48 B23S	RAC14L60 B23S
Required TXV ^{1,2}	BH1	BH1	BA1	BA1	BC1	BC1	BD1
Indoor Unit ^{3,4,5}	Additional Charge, oz						
RFCX18BP	0	–	–	–	–	–	–
RFCX24BP	3	0	–	–	–	–	–
RFCX30BP	–	7	2	–	–	–	–
RFCX36BP	–	–	–	0	–	–	–
RFCX36CP	–	–	2	2	–	–	–
RFCX37CP	–	–	–	5	–	–	–
RFCX42CP	–	–	–	–	–	–	–
RFCX48CP	–	–	–	5	2	0	–
RFCX48DP	–	–	–	–	2	0	–
RFCX60(CP,DP)	–	–	–	–	–	2	0
RFCX18BE	0	–	–	–	–	–	–
RFCX24BE	3	0	–	–	–	–	–
RFCX30BE	8	5	0	–	–	–	–
RFCX36BE	–	7	2	0	–	–	–
RFCX36CE	10	7	2	0	–	–	–
RFCX42CE	–	–	–	5	2	–	–
RFCX48(CE,DE)	–	–	–	5	2	0	–
RFCX60CE	–	–	–	–	9	2	0
RFCX60DE	–	–	–	–	29	22	20
CF/CM/CU18(A,B)	0	–	–	–	–	–	–
CF/CM/CU24(A,B)	3	0	–	–	–	–	–
CF/CM/CU30(A,B,C)	8	5	0	–	–	–	–
CF/CM/CU36(A,B,C,D)	10	7	2	0	–	–	–
CF/CM/CU42(B,C,D)	–	11	2	2	0	–	–
CF/CM/CU48(C,D)	–	–	–	5	2	0	–
CF/CM/CU60(C,D)	–	–	–	–	9	2	0
CF/CM64D	–	–	–	–	29	22	20

Some of the combinations shown in the above System Charge table require Advanced Main Air Circulating Fan indoor product. For approved coil only matches, please see the "COOLING CAPACITY - Upflow, Downflow & Horizontal Furnaces and Coils" table.

FOOTNOTES:

- For applications requiring 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 60 second time delay.
- CF coils cannot be used in horizontal applications.
- Charge adders shown above do not indicate that coils are rated for every application. Refer to Performance Data Tables for actual performance for specified system matches. Obtain certified system ratings from www.ahridirectory.org.

CHARGING PROCEDURES:

- 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 feet of interconnecting lineset.
- Verify the indoor metering device and additional charge required for the specific matched indoor unit in the system using the above table.
- Add additional charge for the amount of interconnecting lineset greater than 15 feet at the rate specified in the Physical and Electrical Table.
- For installations requiring additional charge, weigh in refrigerant for the specific matching indoor unit and actual lineset length.
- Once the charge adders for matched indoor unit and for lineset have been weighed in, verify the system operation against the temperatures and pressures in the Charging Chart for the outdoor unit. Locate Charging Charts on the outdoor unit and also in the Service Data Application Guide on www.simplygettingthejobdone.com. Follow the Subcool or Superheat charging procedure in the Installation Manual according to the type of indoor metering device in the system, and allow ten minutes after each charge adjustment for the system operation to stabilize. Record the charge adjustment made to match the Charging Chart.
- Permanently stamp the unit data plate 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 lineset length + charge adjustments to match the Charging Chart.