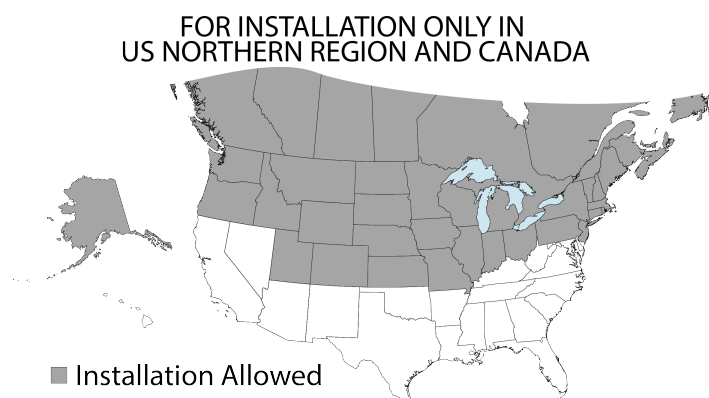


Description

The RAC134 models are part of our successful 13.4 SEER2 Regional Minimum Efficiency in the northern United States and Canada. These outdoor units are specifically designed to be matched with our residential indoor coils, furnaces, and air handlers to provide a complete system solution.

Figure 1: Installation map



Due to continuous product improvement, specifications are subject to change without notice.

Visit us on the web at www.simplygettingthejobdone.com. Additional rating information can be found at www.ahridirectory.org.

This document is only for distribution use - it is not to be used at point of retail sale.

Certification



Warranty summary

Standard 5-year limited parts warranty.

Standard 10-year limited compressor warranty.

Extended 10-year limited parts warranty when product is registered online within 90 days of purchase for replacement or closing for new home construction.

Warranty does not apply to R-22 models, three-phase models, or Internet sales.

See the limited warranty certificate in the *User's Information Manual* for details.

Features

- **Small footprint** - Minimum footprint for easier handling, transportation, and installation.
- **Easier installation** - Independent panels provide quick access for unit setup. Installation time is reduced by easy power and control wiring access. Select indoor matches with factory-mounted TXVs are available for quicker system installation. The filter-drier is shipped loose for installation in the field. The unit is factory-charged for 15 ft refrigeration piping. The small base dimension and reduced unit clearances make for easier retrofits.
- **Accessible information** - QR code on unit provides quick access to technical documents and warranty information.
- **Durable finish** - The coated steel wire fan guard, coated external fasteners, and pre-treated G90-equivalent galvanized steel chassis components resist corrosion and rust creep. Champagne colored powdercoat paint further protects external panels.
- **Quality coils** - The high efficiency microchannel aluminum coil is manufactured using an improved material system, providing reliable performance and small unit size.
- **Rugged coil protection** - Coils are protected from mechanical damage by a proven stamped steel coil guard design.
- **Protected compressor** - Compressors are protected internally by a high-pressure relief valve and a temperature sensor, and externally by the system high-pressure switch.
- **Reliable operation** - Ball bearing fan motors provide superior performance in extreme temperatures.
- **Environmentally friendly** - CFC-free R-410A refrigerant delivers environmentally friendly performance with zero ozone depletion.
- **Top discharge** - Warm air is blown up, away from the structure and any landscaping, allowing compact location on multi-unit applications.
- **Low operating sound levels** - Developed using CFD and FEA tools, the sturdy cabinet and top design provides sound performance of 76 dBA or lower. Compatible accessories for further sound reduction are also available.
- **Better service access** - Diagonal base valves with open access for low-loss fittings, single panel access to the electrical controls, swing out control box for full corner access, and removable fan guard allow easy access for unit maintenance.
- **Agency listed** - Safety certified by CSA to UL 1995/CSA 22.2. Performance certified to ANSI/AHRI Standard 210/240 in accordance with the Unitary Small Equipment certification program.

Nomenclature

Table 1: Nomenclature

Brand	R	R = OTC factory-branded
Product type	AC	AC = Air conditioner
Nominal series efficiency and staging	134	134 = 13.4 (SEER2 - US northern region)
Nominal unit capacity (MBH)	18	18 = 1.5 ton
		24 = 2 ton
		30 = 2.5 ton
		36 = 3 ton
		42 = 3.5 ton
		48 = 4 ton
		60 = 5 ton
Refrigerant	B	B = R-410A
Voltage (voltage-phase-hertz)	2	2 = 208/230-1-60
Generation (major revision)	1	1 = First generation
		2 = Second generation
Factory option	S	S = Standard (no options)
Style letter (minor revision) not used for ordering	A	A = Style A
		B = Style B

Physical and electrical data

Table 2: Physical and electrical data

Outdoor unit model	RAC134 18B21S	RAC134 24B21S	RAC134 30B21S	RAC134 36B21S	RAC134 42B21S	RAC134 48B21S	RAC134 60B21S
Unit supply voltage	208/230 V, 1 phase, 60 Hz						
Normal voltage range (V) ¹	187 to 252						
Minimum circuit ampacity (A)	8.9	11.3	15.3	19.6	21.1	25.7	29.1
Maximum overcurrent device (A) ²	15	15	25	30	35	45	50
Minimum overcurrent device (A) ³	15	15	20	20	25	30	30
Compressor type ⁴	Rotary	Rotary	Scroll	Scroll	Scroll	Scroll	Scroll
Compressor rated load	6.5	8.4	11.7	14.7	15.9	19.5	22.2
Compressor locked rotor	33.0	53.0	71.3	75.0	112.3	130.0	128.0
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

Table 2: Physical and electrical data

Outdoor unit model	RAC134 18B21S	RAC134 24B21S	RAC134 30B21S	RAC134 36B21S	RAC134 42B21S	RAC134 48B21S	RAC134 60B21S
HS Kit Part Number (S1-2SA067*****) ⁵	22006	22006	10106	10106	10106	10106	10106
Fan diameter (in.)	18	18	18	22	22	24	26
Fan motor type	PSC	PSC	PSC	PSC	PSC	PSC	PSC
Fan motor rated HP	1/8	1/8	1/8	1/4	1/4	1/4	1/4
Fan motor rated load (A)	0.7	0.7	0.7	1.3	1.3	1.3	1.3
Fan motor nominal RPM	1075	1075	1075	850	850	850	850
Fan motor nominal CFM	2150	2575	2575	2875	3350	3550	4300
Coil face area (sq. ft)	11.07	12.45	12.45	13.83	17.37	18.74	23.40
Coil rows deep	1	1	1	1	1	1	1
Coil fins per inch	23	23	23	23	23	23	23
Liquid refrigeration piping outdoor unit (field-installed)	3/8	3/8	3/8	3/8	3/8	3/8	3/8
Vapor refrigeration piping outdoor unit (field-installed) ⁶	3/4	3/4	3/4	3/4	7/8	7/8	1 1/8 [‡]
Unit charge (lb-oz) ⁷	3-3	3-4	3-4	4-3	4-15	4-11	5-9
Charge (oz/ft)	0.62	0.62	0.62	0.62	0.67	0.67	0.75
Operating weight (lb)	120	135	130	150	195	200	230

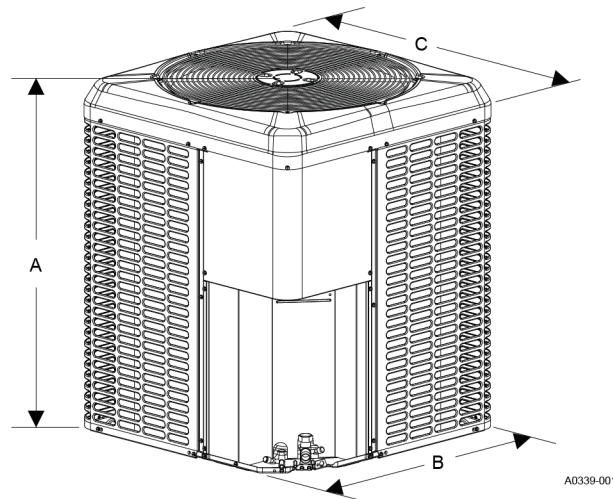
Physical and electrical data notes

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 refrigeration 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 field installed accessory.
6. For applications with non-standard vapor line sizes, refer to the *Applications and accessories* section.
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 refrigeration 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. refrigeration piping.

Illustration of dimensions

Figure 2: Unit dimensions



Dimensions

Table 3: Dimensions

Outdoor unit model	Dimensions (in.)			Refrigerant connection service valve size (in.)	
	A	B	C	Liquid	Vapor
RAC13418B21S	30	24	24	3/8	3/4
RAC13424B21S	33 1/4	24	24		
RAC13430B21S	33 1/4	24	24		
RAC13436B21S	30	29 1/4	29 1/4		7/8
RAC13442B21S	36 1/4	29 1/4	29 1/4		
RAC13448B21S	33 1/4	35 1/4	31 3/4		
RAC13460B21S	36 1/4	38	34 1/4		7/8‡

Dimensions data notes

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

- 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 table

Table 4: System charge table

Outdoor unit model	RAC134 18B21S	RAC134 24B21S	RAC134 30B21S	RAC134 36B21S	RAC134 42B21S	RAC134 48B21S	RAC134 60B21S
Required indoor metering device ^{1,2}	BA1	BA1	BA1	BC1	BC1	BC1	BC1
Indoor coil model ^{3,4,5}	Additional charge (oz)						
RFCB18BXEMP2S1A	2	—	—	—	—	—	—
RFCB24CXEMP2N1A	—	3	—	—	—	—	—
RFCB30DXEMP2N1A	—	—	6	—	—	—	—
RFCB36DXEMP2N1A	—	—	6	0	—	—	—
RFCC36DXEMP2N1A	—	—	6	0	—	—	—
RFCC42FXEMP2N1A	—	—	—	—	2	—	—
RFCC48GXEMP2N1A	—	—	—	—	—	5	—
RFCC60HXEMP2N1A	—	—	—	—	—	—	6
RFCD48GXEMP2N1A	—	—	—	—	—	5	—
RFCD60HXEMP2N1A	—	—	—	—	—	—	6
XAF/XAHB24B	2	0	—	—	—	—	—
XAF/XAHC30C	—	3	0	—	—	—	—
XAF/XAHC36D	—	—	6	0	—	—	—
XAF/XAHC60H	—	—	—	—	—	—	6
XAF/XAHD42E	—	—	—	2	0	—	—
XAF/XAHD48F	—	—	—	—	2	0	—
XAF/XAU/XAHA18A	0	—	—	—	—	—	—
XAF/XAU/XAHA24B	2	0	—	—	—	—	—
XAF/XAU/XAHB30C	—	3	0	—	—	—	—
XAF/XAU/XAHB36D	—	—	6	0	—	—	—
XAF/XAU/XAHC42E	—	—	—	2	0	—	—
XAF/XAU/XAHC48F	—	—	—	—	2	0	—
XAF/XAU/XAHC60G	—	—	—	—	—	5	0
XAF/XAU/XAHD60G	—	—	—	—	—	5	0
XAF/XAU/XAHD60H	—	—	—	—	—	—	6
XAFA30D	—	—	6	—	—	—	—
XAFB18A	0	—	—	—	—	—	—
XAFB36E	—	—	—	2	—	—	—

System charge A-coil data notes

1. For applications requiring a TXV, use S1-1TVM*** series kit.
2. A TXV kit must be used 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. Do not use XAF/XAU coils in horizontal applications. Do not use XAH coils in upflow/downflow applications.
5. Charge adders shown above do not indicate that coils are rated for every application. Refer to the *Performance data tables* for actual performance for specified system matches. Obtain certified system ratings from <http://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 Table .
3. Add additional charge for the amount of interconnecting refrigeration piping greater than 15 ft at the rate specified in 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 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 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.

Air handler capacity

Table 5: Air handler capacity

Outdoor unit model	Air handler model	Air handler width (in.)	Indoor coil model	Rated CFM	Net cool (MBH)	Sens cool (MBH)	SEER2	EER2
RAC13418B21S	EBE15A	19.6	XAF/XAUA24B	725	18.00	13.90	14.00	12.00
RAC13418B21S	EBE15A	19.6	XAHA18A	725	18.00	13.80	13.75	11.75
RAC13418B21S	EBE15A	19.6	XAHA24B	725	18.00	13.90	14.00	12.00
RAC13418B21S	JMET08BS2N1	17.5	XAFB18A	650	18.00	12.90	16.00	13.00
RAC13418B21S	JMET08BS2N1	17.5	XAFB18A	725	18.00	13.70	15.00	12.50
RAC13418B21S	JMET08BS2N1	17.5	XAFB24B	650	18.00	13.00	16.00	13.00
RAC13418B21S	JMET08BS2N1	17.5	XAFB24B	725	18.00	13.80	15.00	12.50
RAC13418B21S	JMET08BS2N1	17.5	XAHB24B	700	18.00	13.70	15.00	12.50
RAC13418B21S	JMET12BS2N1	17.5	XAFB18A	575	17.80	12.30	16.00	13.00
RAC13418B21S	JMET12BS2N1	17.5	XAFB18A	650	18.00	13.30	14.75	12.25
RAC13418B21S	JMET12BS2N1	17.5	XAFB24B	575	17.80	12.30	16.00	13.00
RAC13418B21S	JMET12BS2N1	17.5	XAFB24B	675	18.00	13.50	15.00	12.50
RAC13418B21S	JMET12BS2N1	17.5	XAHB24B	650	18.00	13.30	15.00	12.50
RAC13418B21S	RFCB18BXEMP2S1	17.5	—	650	18.00	13.30	15.00	12.50
RAC13424B21S	EBE15A	19.6	XAF/XAUA24B	725	24.00	16.90	14.75	12.50
RAC13424B21S	EBE15A	19.6	XAF/XAUB30C	775	24.00	17.50	15.25	13.00
RAC13424B21S	EBE15A	19.6	XAFB24B	750	24.00	17.00	15.00	12.75
RAC13424B21S	EBE15A	19.6	XAFC30C	775	24.00	17.50	15.25	13.00
RAC13424B21S	EBE15A	19.6	XAHA24B	725	24.00	16.90	14.75	12.50
RAC13424B21S	EBE15A	19.6	XAHB24B	750	24.00	17.00	15.00	12.75
RAC13424B21S	EBE15A	19.6	XAHB30C	750	24.00	17.30	15.25	13.00
RAC13424B21S	EBE15A	19.6	XAHC30C	775	24.00	17.50	15.25	13.00
RAC13424B21S	JMET08BS2N1	17.5	XAF/XAUB30C	850	24.00	17.40	16.00	13.00
RAC13424B21S	JMET08BS2N1	17.5	XAF/XAUB30C	725	24.00	17.10	15.00	12.50
RAC13424B21S	JMET08BS2N1	17.5	XAFB24B	825	24.00	16.90	15.75	12.75
RAC13424B21S	JMET08BS2N1	17.5	XAFB24B	725	24.00	16.80	14.75	12.25
RAC13424B21S	JMET08BS2N1	17.5	XAHB24B	700	24.00	16.70	14.50	12.25
RAC13424B21S	JMET08BS2N1	17.5	XAHB30C	700	24.00	17.00	15.00	12.50
RAC13424B21S	JMET12BS2N1	17.5	XAF/XAUB30C	850	24.00	17.40	16.00	13.00

Table 10: Furnace capacity

Outdoor unit model	Furnace model	Furnace width (in.)	Indoor coil model	Rated CFM	Net cool (MBH)	Sens cool (MBH)	SEER2	EER2
RAC13436B21S	TM8Y100C20MP11	21.0	XAFC36D	1000	35.40	25.00	14.50	12.00
RAC13436B21S	TM8Y100C20MP11	21.0	XAHC36D	975	35.20	24.60	14.25	12.00
RAC13436B21S	TM8Y100C20MP11	21.0	XAHC42E	975	35.40	24.80	14.25	12.00
RAC13436B21S	TM8Y120C20MP11	21.0	XAF/XAUC42E	1000	35.40	25.00	14.50	12.00
RAC13436B21S	TM8Y120C20MP11	21.0	XAFC36D	1000	35.40	25.00	14.50	12.00
RAC13436B21S	TM8Y120C20MP11	21.0	XAHC36D	975	35.20	24.60	14.25	12.00
RAC13436B21S	TM8Y120C20MP11	21.0	XAHC42E	975	35.40	24.80	14.25	12.00
RAC13436B21S	TM9Y060B12MP11	17.5	XAF/XAUB36D	1000	35.00	24.80	13.50	11.25
RAC13436B21S	TM9Y060B12MP11	21.0	XAF/XAUC42E	1000	35.20	25.00	13.50	11.25
RAC13436B21S	TM9Y060B12MP11	17.5	XAFB36E	975	35.00	24.80	13.40	11.25
RAC13436B21S	TM9Y060B12MP11	21.0	XAFC36D	1000	35.00	24.80	13.50	11.25
RAC13436B21S	TM9Y060B12MP11	17.5	XAHB36D	975	34.80	24.60	13.40	11.25
RAC13436B21S	TM9Y060B12MP11	21.0	XAHC36D	1000	35.00	24.80	13.50	11.25
RAC13436B21S	TM9Y060B12MP11	21.0	XAHC42E	975	35.00	24.80	13.40	11.25
RAC13436B21S	TM9Y080B12MP11	17.5	XAF/XAUB36D	1025	35.20	25.20	13.75	11.50
RAC13436B21S	TM9Y080B12MP11	21.0	XAF/XAUC42E	1050	35.40	25.60	13.75	11.50
RAC13436B21S	TM9Y080B12MP11	17.5	XAFB36E	1025	35.20	25.20	13.75	11.50
RAC13436B21S	TM9Y080B12MP11	21.0	XAFC36D	1050	35.40	25.60	13.75	11.50
RAC13436B21S	TM9Y080B12MP11	17.5	XAHB36D	1000	35.00	25.00	13.40	11.25
RAC13436B21S	TM9Y080B12MP11	21.0	XAHC36D	1025	35.20	25.20	13.75	11.50
RAC13436B21S	TM9Y080B12MP11	21.0	XAHC42E	1025	35.20	25.20	13.75	11.50
RAC13436B21S	TM9Y080C16MP11	21.0	XAF/XAUC42E	975	35.20	24.60	14.25	11.75
RAC13436B21S	TM9Y080C16MP11	21.0	XAFC36D	950	35.00	24.40	14.00	11.75
RAC13436B21S	TM9Y080C16MP11	21.0	XAHC36D	950	35.00	24.40	14.00	11.75
RAC13436B21S	TM9Y080C16MP11	21.0	XAHC42E	950	35.00	24.40	14.00	11.75
RAC13436B21S	TM9Y100C16MP11	21.0	XAF/XAUC42E	950	35.00	24.40	14.00	11.75
RAC13436B21S	TM9Y100C16MP11	21.0	XAFC36D	950	35.00	24.40	14.00	11.75
RAC13436B21S	TM9Y100C16MP11	21.0	XAHC36D	950	35.00	24.40	14.00	11.75
RAC13436B21S	TM9Y100C16MP11	21.0	XAHC42E	1075	35.60	25.80	13.75	11.50
RAC13436B21S	TM9Y100C20MP11	21.0	XAF/XAUC42E	950	35.00	24.40	14.00	11.75
RAC13436B21S	TM9Y100C20MP11	21.0	XAFC36D	950	35.00	24.40	14.00	11.75
RAC13436B21S	TM9Y100C20MP11	21.0	XAHC36D	1125	35.60	26.20	13.75	11.50
RAC13436B21S	TM9Y100C20MP11	21.0	XAHC42E	1125	35.60	26.20	13.75	11.50

Furnace capacity - 3.5 ton

Table 11: Furnace capacity

Outdoor unit model	Furnace model	Furnace width (in.)	Indoor coil model	Rated CFM	Net cool (MBH)	Sens cool (MBH)	SEER2	EER2
RAC13442B21S	RGF19080BE12MP13	21.0	XAF/XAUC42E	1200	40.00	29.80	13.75	11.75
RAC13442B21S	RGF19080BE12MP13	21.0	XAF/XAUC48F	1225	40.00	29.60	13.75	11.75
RAC13442B21S	RGF19080BE12MP13	21.0	XAHC42E	1200	40.00	29.80	13.75	11.75
RAC13442B21S	RGF19080BE12MP13	21.0	XAHC48F	1225	40.00	29.60	13.75	11.75
RAC13442B21S	RGF19080CE16MP13	21.0	XAF/XAUC42E	1400	41.50	32.40	13.75	11.75
RAC13442B21S	RGF19080CE16MP13	21.0	XAF/XAUC48F	1425	41.50	32.20	13.75	11.75
RAC13442B21S	RGF19080CE16MP13	24.5	XAFD42E	1425	41.00	32.20	13.75	11.75
RAC13442B21S	RGF19080CE16MP13	24.5	XAFD48F	1425	41.00	31.80	13.75	11.75
RAC13442B21S	RGF19080CE16MP13	21.0	XAHC42E	1350	41.50	32.00	14.00	12.20
RAC13442B21S	RGF19080CE16MP13	21.0	XAHC48F	1425	41.50	32.20	13.75	11.75
RAC13442B21S	RGF19080CE16MP13	24.5	XAHD42E	1375	41.00	31.80	14.00	11.75
RAC13442B21S	RGF19080CE16MP13	24.5	XAHD48F	1425	41.00	31.80	13.75	11.75
RAC13442B21S	RGF19080CE20MP13	21.0	XAF/XAUC42E	1225	40.00	29.60	14.25	12.00
RAC13442B21S	RGF19080CE20MP13	21.0	XAF/XAUC48F	1250	40.00	29.40	14.25	12.00
RAC13442B21S	RGF19080CE20MP13	24.5	XAFD42E	1250	40.00	29.80	14.25	12.00
RAC13442B21S	RGF19080CE20MP13	24.5	XAFD48F	1275	40.00	29.60	14.25	12.00
RAC13442B21S	RGF19080CE20MP13	21.0	XAHC42E	1600	41.00	33.20	14.25	12.00
RAC13442B21S	RGF19080CE20MP13	21.0	XAHC48F	1250	40.00	29.40	14.25	12.00
RAC13442B21S	RGF19080CE20MP13	24.5	XAHD42E	1225	40.00	29.60	14.00	11.75
RAC13442B21S	RGF19080CE20MP13	24.5	XAHD48F	1250	40.00	29.40	14.25	12.00
RAC13442B21S	RGF19100CE16MP13	21.0	XAF/XAUC48F	1475	41.00	32.40	13.25	11.50
RAC13442B21S	RGF19100CE16MP13	24.5	XAFD42E	1475	41.00	32.80	13.25	11.50

Table 11: Furnace capacity

Outdoor unit model	Furnace model	Furnace width (in.)	Indoor coil model	Rated CFM	Net cool (MBH)	Sens cool (MBH)	SEER2	EER2
RAC13442B21S	RGF19100CE16MP13	24.5	XAFD48F	1500	41.00	32.60	13.25	11.50
RAC13442B21S	RGF19100CE16MP13	21.0	XAHC48F	1475	41.00	32.40	13.25	11.50
RAC13442B21S	RGF19100CE16MP13	24.5	XAHD48F	1475	40.50	32.00	13.25	11.50
RAC13442B21S	RGF19100CE20MP13	21.0	XAF/XAUC42E	1225	40.00	29.60	14.00	11.75
RAC13442B21S	RGF19100CE20MP13	21.0	XAF/XAUC48F	1225	40.00	29.20	14.25	11.75
RAC13442B21S	RGF19100CE20MP13	24.5	XAFD42E	1225	40.00	29.60	14.00	11.75
RAC13442B21S	RGF19100CE20MP13	24.5	XAFD48F	1250	40.00	29.40	14.25	11.75
RAC13442B21S	RGF19100CE20MP13	21.0	XAHC42E	1575	41.00	33.00	14.25	12.00
RAC13442B21S	RGF19100CE20MP13	21.0	XAHC48F	1250	40.00	29.40	14.25	11.75
RAC13442B21S	RGF19100CE20MP13	24.5	XAHD42E	1200	40.00	29.40	14.00	11.75
RAC13442B21S	RGF19100CE20MP13	24.5	XAHD48F	1250	40.00	29.40	14.25	11.75
RAC13442B21S	RGF19120DE20MP13	24.5	XAFD42E	1275	40.00	30.00	14.00	11.75
RAC13442B21S	RGF19120DE20MP13	24.5	XAFD48F	1300	40.50	30.20	14.25	11.75
RAC13442B21S	RGF19120DE20MP13	24.5	XAHD42E	1250	40.00	30.00	14.00	11.75
RAC13442B21S	RGF19120DE20MP13	24.5	XAHD48F	1275	40.00	29.80	14.00	11.75
RAC13442B21S	RGF1L080BE12MP12	21.0	XAF/XAUC42E	1225	40.00	30.00	13.75	11.75
RAC13442B21S	RGF1L080BE12MP12	21.0	XAF/XAUC48F	1225	40.00	29.60	13.75	11.75
RAC13442B21S	RGF1L080BE12MP12	21.0	XAHC42E	1200	40.00	29.80	13.50	11.50
RAC13442B21S	RGF1L080BE12MP12	21.0	XAHC48F	1225	40.00	29.60	13.75	11.75
RAC13442B21S	RGF1L080CE16MP12	21.0	XAF/XAUC42E	1425	41.50	32.60	13.50	11.50
RAC13442B21S	RGF1L080CE16MP12	21.0	XAF/XAUC48F	1450	41.50	32.40	13.50	11.75
RAC13442B21S	RGF1L080CE16MP12	24.5	XAFD42E	1450	41.00	32.40	13.75	11.75
RAC13442B21S	RGF1L080CE16MP12	24.5	XAFD48F	1475	41.00	32.20	13.75	11.75
RAC13442B21S	RGF1L080CE16MP12	21.0	XAHC42E	1400	41.00	32.20	13.50	11.50
RAC13442B21S	RGF1L080CE16MP12	21.0	XAHC48F	1450	41.50	32.40	13.75	11.75
RAC13442B21S	RGF1L080CE16MP12	24.5	XAHD42E	1425	41.00	32.40	13.50	11.50
RAC13442B21S	RGF1L080CE16MP12	24.5	XAHD48F	1450	41.00	32.00	13.75	11.75
RAC13442B21S	RGF1L080CE20MP12	21.0	XAF/XAUC42E	1275	40.00	30.00	14.25	11.75
RAC13442B21S	RGF1L080CE20MP12	21.0	XAF/XAUC48F	1275	40.00	29.60	14.25	11.75
RAC13442B21S	RGF1L080CE20MP12	24.5	XAFD42E	1275	40.00	30.00	14.25	11.75
RAC13442B21S	RGF1L080CE20MP12	24.5	XAFD48F	1300	40.50	30.20	14.25	11.75
RAC13442B21S	RGF1L080CE20MP12	21.0	XAHC42E	1250	40.00	30.00	14.00	11.75
RAC13442B21S	RGF1L080CE20MP12	21.0	XAHC48F	1300	40.50	30.20	14.25	11.75
RAC13442B21S	RGF1L080CE20MP12	24.5	XAHD42E	1250	40.00	29.80	14.00	11.75
RAC13442B21S	RGF1L080CE20MP12	24.5	XAHD48F	1300	40.50	30.20	14.25	11.75
RAC13442B21S	RGF1L100CE16MP12	21.0	XAF/XAUC42E	1425	41.50	32.60	13.50	11.75
RAC13442B21S	RGF1L100CE16MP12	21.0	XAF/XAUC48F	1450	41.50	32.40	13.75	11.75
RAC13442B21S	RGF1L100CE16MP12	24.5	XAFD42E	1450	41.00	32.40	13.75	11.75
RAC13442B21S	RGF1L100CE16MP12	24.5	XAFD48F	1450	41.00	32.00	13.75	11.75
RAC13442B21S	RGF1L100CE16MP12	21.0	XAHC42E	1400	41.00	32.20	13.50	11.50
RAC13442B21S	RGF1L100CE16MP12	21.0	XAHC48F	1450	41.50	32.40	13.75	11.75
RAC13442B21S	RGF1L100CE16MP12	24.5	XAHD42E	1425	41.00	32.40	13.50	11.50
RAC13442B21S	RGF1L100CE16MP12	24.5	XAHD48F	1450	41.00	32.00	13.75	11.75
RAC13442B21S	RGF1L100CE20MP12	21.0	XAF/XAUC42E	1250	40.00	29.80	14.00	11.75
RAC13442B21S	RGF1L100CE20MP12	21.0	XAF/XAUC48F	1275	40.00	29.60	14.25	11.75
RAC13442B21S	RGF1L100CE20MP12	24.5	XAFD42E	1275	40.00	30.00	14.25	11.75
RAC13442B21S	RGF1L100CE20MP12	24.5	XAFD48F	1300	40.50	30.20	14.25	11.75
RAC13442B21S	RGF1L100CE20MP12	21.0	XAHC42E	1250	40.00	29.80	14.00	11.75
RAC13442B21S	RGF1L100CE20MP12	21.0	XAHC48F	1275	40.00	29.60	14.25	11.75
RAC13442B21S	RGF1L100CE20MP12	24.5	XAHD42E	1250	40.00	29.80	14.00	11.75
RAC13442B21S	RGF1L100CE20MP12	24.5	XAHD48F	1275	40.00	29.60	14.25	11.75
RAC13442B21S	RGF1L120CE16MP12	21.0	XAF/XAUC42E	1450	41.50	32.80	13.75	11.75
RAC13442B21S	RGF1L120CE16MP12	21.0	XAF/XAUC48F	1450	41.50	32.40	13.75	11.75
RAC13442B21S	RGF1L120CE16MP12	24.5	XAFD42E	1450	41.00	32.40	13.75	11.75
RAC13442B21S	RGF1L120CE16MP12	24.5	XAFD48F	1475	41.00	32.20	13.75	11.75
RAC13442B21S	RGF1L120CE16MP12	21.0	XAHC42E	1425	41.50	32.80	13.50	11.50
RAC13442B21S	RGF1L120CE16MP12	21.0	XAHC48F	1450	41.50	32.40	13.75	11.75
RAC13442B21S	RGF1L120CE16MP12	24.5	XAHD42E	1425	41.00	32.20	13.50	11.75
RAC13442B21S	RGF1L120CE16MP12	24.5	XAHD48F	1475	41.00	32.20	13.75	11.75
RAC13442B21S	RGF1L120CE20MP12	21.0	XAF/XAUC42E	1250	40.00	29.80	14.25	11.75
RAC13442B21S	RGF1L120CE20MP12	21.0	XAF/XAUC48F	1275	40.00	29.60	14.25	11.75
RAC13442B21S	RGF1L120CE20MP12	24.5	XAFD42E	1275	40.00	30.00	14.25	11.75
RAC13442B21S	RGF1L120CE20MP12	24.5	XAFD48F	1275	40.00	29.60	14.25	11.75

Table 11: Furnace capacity

Outdoor unit model	Furnace model	Furnace width (in.)	Indoor coil model	Rated CFM	Net cool (MBH)	Sens cool (MBH)	SEER2	EER2
RAC13442B21S	RGF1L120CE20MP12	21.0	XAHC42E	1225	40.00	29.60	14.00	11.75
RAC13442B21S	RGF1L120CE20MP12	21.0	XAHC48F	1275	40.00	29.60	14.25	11.75
RAC13442B21S	RGF1L120CE20MP12	24.5	XAHD42E	1250	40.00	29.80	14.25	11.75
RAC13442B21S	RGF1L120CE20MP12	24.5	XAHD48F	1275	40.00	29.60	14.25	11.75
RAC13442B21S	RGF1L130DE20MP12	24.5	XAFD42E	1250	40.00	29.80	14.25	11.75
RAC13442B21S	RGF1L130DE20MP12	24.5	XAFD48F	1250	40.00	29.40	14.25	11.75
RAC13442B21S	RGF1L130DE20MP12	24.5	XAHD42E	1225	40.00	29.60	14.25	11.75
RAC13442B21S	RGF1L130DE20MP12	24.5	XAHD48F	1250	40.00	29.40	14.25	11.75
RAC13442B21S	RLF19080CE16MP12	21.0	XAF/XAUC42E	1275	41.00	31.00	14.00	11.75
RAC13442B21S	RLF19080CE16MP12	21.0	XAF/XAUC48F	1300	41.00	30.80	14.00	12.20
RAC13442B21S	RLF19080CE16MP12	24.5	XAFD42E	1300	40.50	30.80	14.00	12.20
RAC13442B21S	RLF19080CE16MP12	24.5	XAFD48F	1300	40.50	30.40	14.00	12.20
RAC13442B21S	RLF19080CE16MP12	21.0	XAHC42E	1275	41.00	31.00	13.75	11.75
RAC13442B21S	RLF19080CE16MP12	21.0	XAHC48F	1300	41.00	30.80	14.00	12.20
RAC13442B21S	RLF19080CE16MP12	24.5	XAHD42E	1275	40.50	30.60	14.00	11.75
RAC13442B21S	RLF19080CE16MP12	24.5	XAHD48F	1300	40.50	30.40	14.00	12.20
RAC13442B21S	RLF19100CE20MP12	21.0	XAF/XAUC42E	1225	40.00	29.60	14.00	11.75
RAC13442B21S	RLF19100CE20MP12	21.0	XAF/XAUC48F	1250	40.00	29.60	14.25	11.75
RAC13442B21S	RLF19100CE20MP12	24.5	XAFD42E	1250	40.00	29.80	14.25	11.75
RAC13442B21S	RLF19100CE20MP12	24.5	XAFD48F	1250	40.00	29.60	14.25	11.75
RAC13442B21S	RLF19100CE20MP12	21.0	XAHC42E	1200	40.00	29.40	14.00	11.75
RAC13442B21S	RLF19100CE20MP12	21.0	XAHC48F	1250	40.00	29.60	14.25	11.75
RAC13442B21S	RLF19100CE20MP12	24.5	XAHD42E	1225	40.00	29.60	14.00	11.75
RAC13442B21S	RLF19100CE20MP12	24.5	XAHD48F	1250	40.00	29.60	14.25	11.75
RAC13442B21S	RLF1L080CE16MP11	21.0	XAF/XAUC42E	1225	41.00	30.40	14.00	12.20
RAC13442B21S	RLF1L080CE16MP11	21.0	XAF/XAUC48F	1250	41.00	30.40	14.25	12.20
RAC13442B21S	RLF1L080CE16MP11	24.5	XAFD42E	1250	40.50	30.40	14.25	12.20
RAC13442B21S	RLF1L080CE16MP11	24.5	XAFD48F	1250	40.50	30.00	14.25	12.20
RAC13442B21S	RLF1L080CE16MP11	21.0	XAHC42E	1200	40.50	30.00	14.00	12.20
RAC13442B21S	RLF1L080CE16MP11	21.0	XAHC48F	1250	41.00	30.40	14.25	12.20
RAC13442B21S	RLF1L080CE16MP11	24.5	XAHD42E	1225	40.50	30.20	14.00	12.20
RAC13442B21S	RLF1L080CE16MP11	24.5	XAHD48F	1250	40.50	30.00	14.25	12.20
RAC13442B21S	RLF1L100CE20MP11	21.0	XAF/XAUC42E	1225	40.00	29.60	14.25	11.75
RAC13442B21S	RLF1L100CE20MP11	21.0	XAF/XAUC48F	1250	40.00	29.40	14.25	11.75
RAC13442B21S	RLF1L100CE20MP11	24.5	XAFD42E	1250	40.00	29.80	14.25	11.75
RAC13442B21S	RLF1L100CE20MP11	24.5	XAFD48F	1250	40.00	29.40	14.25	11.75
RAC13442B21S	RLF1L100CE20MP11	21.0	XAHC42E	1200	40.00	29.40	14.25	11.75
RAC13442B21S	RLF1L100CE20MP11	21.0	XAHC48F	1250	40.00	29.40	14.25	11.75
RAC13442B21S	RLF1L100CE20MP11	24.5	XAHD42E	1225	40.00	29.60	14.25	11.75
RAC13442B21S	RLF1L100CE20MP11	24.5	XAHD48F	1250	40.00	29.40	14.25	11.75
RAC13442B21S	TM8Y080C16MP11	21.0	XAF/XAUC42E	1200	40.00	29.40	14.00	11.75
RAC13442B21S	TM8Y080C16MP11	21.0	XAF/XAUC48F	1225	40.00	29.40	14.25	11.75
RAC13442B21S	TM8Y080C16MP11	24.5	XAFD42E	1225	40.00	29.60	14.25	11.75
RAC13442B21S	TM8Y080C16MP11	24.5	XAFD48F	1225	40.00	29.40	14.25	11.75
RAC13442B21S	TM8Y080C16MP11	21.0	XAHC42E	1350	41.00	31.60	13.75	11.75
RAC13442B21S	TM8Y080C16MP11	24.5	XAHD42E	1200	40.00	29.40	14.00	11.75
RAC13442B21S	TM8Y080C16MP11	24.5	XAHD48F	1225	40.00	29.40	14.25	11.75
RAC13442B21S	TM8Y100C16MP11	21.0	XAF/XAUC42E	1200	40.00	29.40	14.00	11.75
RAC13442B21S	TM8Y100C16MP11	21.0	XAF/XAUC48F	1225	40.00	29.40	14.25	11.75
RAC13442B21S	TM8Y100C16MP11	24.5	XAFD42E	1225	40.00	29.60	14.25	11.75
RAC13442B21S	TM8Y100C16MP11	24.5	XAFD48F	1225	40.00	29.40	14.25	11.75
RAC13442B21S	TM8Y100C16MP11	21.0	XAHC42E	1350	41.00	31.60	13.75	11.75
RAC13442B21S	TM8Y100C16MP11	24.5	XAHD42E	1200	40.00	29.40	14.00	11.75
RAC13442B21S	TM8Y100C16MP11	24.5	XAHD48F	1225	40.00	29.40	14.25	11.75
RAC13442B21S	TM8Y100C20MP11	21.0	XAF/XAUC42E	1375	41.50	32.00	14.25	12.20
RAC13442B21S	TM8Y100C20MP11	21.0	XAF/XAUC48F	1200	40.00	29.00	14.25	12.00
RAC13442B21S	TM8Y100C20MP11	24.5	XAFD42E	1200	40.00	29.40	14.25	12.00
RAC13442B21S	TM8Y100C20MP11	24.5	XAFD48F	1200	40.00	29.00	14.25	12.00
RAC13442B21S	TM8Y100C20MP11	21.0	XAHC42E	1325	41.00	31.40	14.00	12.20
RAC13442B21S	TM8Y100C20MP11	24.5	XAHD42E	1350	41.00	31.40	14.00	12.20
RAC13442B21S	TM8Y100C20MP11	24.5	XAHD48F	1200	40.00	29.00	14.25	12.00
RAC13442B21S	TM8Y120C20MP11	21.0	XAF/XAUC42E	1375	41.50	32.00	14.25	12.20
RAC13442B21S	TM8Y120C20MP11	21.0	XAF/XAUC48F	1200	40.00	29.00	14.25	12.00

Table 11: Furnace capacity

Outdoor unit model	Furnace model	Furnace width (in.)	Indoor coil model	Rated CFM	Net cool (MBH)	Sens cool (MBH)	SEER2	EER2
RAC13442B21S	TM8Y120C20MP11	24.5	XAFD42E	1200	40.00	29.40	14.25	12.00
RAC13442B21S	TM8Y120C20MP11	24.5	XAFD48F	1200	40.00	29.00	14.25	12.00
RAC13442B21S	TM8Y120C20MP11	21.0	XAHC42E	1325	41.00	31.40	14.00	12.20
RAC13442B21S	TM8Y120C20MP11	24.5	XAHD42E	1350	41.00	31.40	14.00	12.20
RAC13442B21S	TM8Y120C20MP11	24.5	XAHD48F	1200	40.00	29.00	14.25	12.00
RAC13442B21S	TM9Y080B12MP11	21.0	XAF/XAUC48F	1200	40.00	29.40	13.75	11.75
RAC13442B21S	TM9Y080B12MP11	21.0	XAHC48F	1200	40.00	29.40	13.75	11.75
RAC13442B21S	TM9Y080C16MP11	21.0	XAF/XAUC42E	1250	41.00	30.80	14.00	11.75
RAC13442B21S	TM9Y080C16MP11	21.0	XAF/XAUC48F	1250	41.00	30.40	14.00	11.75
RAC13442B21S	TM9Y080C16MP11	24.5	XAFD42E	1250	40.50	30.40	14.00	11.75
RAC13442B21S	TM9Y080C16MP11	24.5	XAFD48F	1275	40.50	30.20	14.00	12.20
RAC13442B21S	TM9Y080C16MP11	21.0	XAHC42E	1225	40.50	30.20	13.75	11.75
RAC13442B21S	TM9Y080C16MP11	21.0	XAHC48F	1275	41.00	30.60	14.00	12.20
RAC13442B21S	TM9Y080C16MP11	24.5	XAHD42E	1250	40.50	30.40	13.75	11.75
RAC13442B21S	TM9Y080C16MP11	24.5	XAHD48F	1275	40.50	30.20	14.00	12.20
RAC13442B21S	TM9Y100C16MP11	21.0	XAF/XAUC42E	1250	41.00	30.80	13.75	11.75
RAC13442B21S	TM9Y100C16MP11	21.0	XAF/XAUC48F	1250	41.00	30.40	14.00	11.75
RAC13442B21S	TM9Y100C16MP11	24.5	XAFD42E	1250	40.50	30.40	14.00	11.75
RAC13442B21S	TM9Y100C16MP11	24.5	XAFD48F	1275	40.50	30.20	14.00	12.20
RAC13442B21S	TM9Y100C16MP11	21.0	XAHC42E	1225	40.50	30.20	13.75	11.75
RAC13442B21S	TM9Y100C16MP11	21.0	XAHC48F	1275	41.00	30.60	14.00	12.20
RAC13442B21S	TM9Y100C16MP11	24.5	XAHD42E	1250	40.50	30.40	13.75	11.75
RAC13442B21S	TM9Y100C16MP11	24.5	XAHD48F	1275	40.50	30.20	14.00	12.20
RAC13442B21S	TM9Y100C20MP11	21.0	XAF/XAUC42E	1350	41.00	31.60	13.75	11.75
RAC13442B21S	TM9Y100C20MP11	21.0	XAF/XAUC48F	1375	41.00	31.40	13.75	11.75
RAC13442B21S	TM9Y100C20MP11	24.5	XAFD42E	1375	40.50	31.40	13.75	11.75
RAC13442B21S	TM9Y100C20MP11	24.5	XAFD48F	1400	41.00	31.60	13.75	11.75
RAC13442B21S	TM9Y100C20MP11	21.0	XAHC42E	1325	41.00	31.60	13.75	11.75
RAC13442B21S	TM9Y100C20MP11	21.0	XAHC48F	1375	41.00	31.40	13.75	11.75
RAC13442B21S	TM9Y100C20MP11	24.5	XAHD42E	1350	40.50	31.20	13.75	11.75
RAC13442B21S	TM9Y100C20MP11	24.5	XAHD48F	1375	40.50	31.00	13.75	11.75
RAC13442B21S	TM9Y120D20MP11	24.5	XAFD42E	1225	40.00	29.60	14.25	11.75
RAC13442B21S	TM9Y120D20MP11	24.5	XAFD48F	1225	40.00	29.40	14.25	11.75
RAC13442B21S	TM9Y120D20MP11	24.5	XAHD42E	1200	40.00	29.40	14.00	11.75
RAC13442B21S	TM9Y120D20MP11	24.5	XAHD48F	1225	40.00	29.40	14.25	11.75

Furnace capacity - 4 ton

Table 12: Furnace capacity

Outdoor unit model	Furnace model	Furnace width (in.)	Indoor coil model	Rated CFM	Net cool (MBH)	Sens cool (MBH)	SEER2	EER2
RAC13448B21S	RGF19080CE16MP13	21.0	XAF/XAUC48F	1425	46.50	33.00	13.50	11.25
RAC13448B21S	RGF19080CE16MP13	21.0	XAF/XAUC60G	1450	47.50	33.80	13.75	11.50
RAC13448B21S	RGF19080CE16MP13	24.5	XAF/XAUD60G	1450	47.50	33.80	13.75	11.50
RAC13448B21S	RGF19080CE16MP13	24.5	XAFD48F	1425	46.50	33.00	13.50	11.25
RAC13448B21S	RGF19080CE16MP13	21.0	XAHC48F	1425	46.50	33.00	13.50	11.25
RAC13448B21S	RGF19080CE16MP13	21.0	XAHC60G	1450	47.50	33.80	13.75	11.50
RAC13448B21S	RGF19080CE16MP13	24.5	XAHD48F	1425	46.50	33.00	13.50	11.25
RAC13448B21S	RGF19080CE16MP13	21.0	XAHD60G	1425	47.50	33.60	13.75	11.50
RAC13448B21S	RGF19080CE20MP13	21.0	XAF/XAUC48F	1350	46.00	32.00	13.75	11.50
RAC13448B21S	RGF19080CE20MP13	21.0	XAF/XAUC60G	1375	47.50	33.00	14.25	11.75
RAC13448B21S	RGF19080CE20MP13	24.5	XAF/XAUD60G	1375	47.50	33.00	14.25	11.75
RAC13448B21S	RGF19080CE20MP13	24.5	XAFD48F	1375	46.50	32.40	14.00	11.75
RAC13448B21S	RGF19080CE20MP13	21.0	XAHC48F	1350	46.00	32.00	13.75	11.50
RAC13448B21S	RGF19080CE20MP13	21.0	XAHC60G	1375	47.50	33.00	14.25	12.00
RAC13448B21S	RGF19080CE20MP13	24.5	XAHD48F	1350	46.00	32.00	13.75	11.50
RAC13448B21S	RGF19080CE20MP13	21.0	XAHD60G	1350	47.00	32.60	14.00	11.75
RAC13448B21S	RGF19100CE16MP13	21.0	XAF/XAUC48F	1475	46.50	33.60	13.40	11.00
RAC13448B21S	RGF19100CE16MP13	21.0	XAF/XAUC60G	1500	47.50	34.40	13.50	11.00
RAC13448B21S	RGF19100CE16MP13	24.5	XAF/XAUD60G	1500	47.50	34.40	13.50	11.00
RAC13448B21S	RGF19100CE16MP13	24.5	XAFD48F	1500	47.00	34.00	13.40	11.00

Applications and accessories

Refer to the *Price Manual* for specific model numbers.

Table 14: Standard application limits

Standard application limits		
Maximum line set equivalent length		80 ft
Outdoor ambient temperature limits		
Cooling operation	Maximum DB	115°F
	Minimum DB	55°F

❶ **Note:** For low ambient and long line set applications, see the accessories listed below.

Non-standard line set applications: For installations with reduced diameter or long line sets, refer to the current version of the *Piping Application Guide* P/N 247077, available in the *Application Bulletins* section on www.simplygettingthejobdone.org.

OD Unit Anti-Short Cycle Kit (10 Pack) (S1-2TD08700124BK): A time delay that prevents rapid compressor restarting as a result of power interruption, limit switch operation, or thermostat resetting. Not required for AC models with factory electronic controls.

Standard Low Ambient Control Kit (S1-2LA06700424): Allows the use of air conditioning at low outdoor ambient temperatures down to +20°F (-7°C). For use with all R-410A singlestage AC models.

Advanced Low Ambient Control Kit (S1-2LA04701024): Contains the necessary components and controls to allow cooling operation down to -20°F (-29°C). For use with some R-410A single-stage AC and HP models. This accessory can only be applied to models that contain a PSC outdoor fan motor.

Low Pressure Switch Kit (S1-2PS06700524): Provides field installed low pressure (loss of charge) protection. Not required for AC models with factory electronic controls.

High Ambient Outdoor Fan Motor (S1-FHM**HT):** Class F 70°C motor to allow cooling operation up to 160°F air entering the outdoor coil. For use with all R-410A single-stage AC models containing R-410A refrigerant only.

Outdoor Communicating Board Kit (S1-33102952310): Electronic control upgrade for standard AC units to provide compatibility with the Hx™ Touch Screen Thermostat used in communicating mode.

Start Assist Kit (S1-2SA067**):** Provides increased compressor starting torque for areas with low supply voltage. Required for units with reciprocating compressors when applied with indoor TXV, and for all units when applied with long linesets or low ambient kits. May be factory installed on select AC units (see the Physical and electrical data table). Refer to the *Price Pages* or *Source 1 SmartSearch* for the correct kit for each application.

Compressor Crankcase Heater Kit (S1-025-***):** A wrap-around electrical resistance heater that warms the compressor sump, reducing the chance of liquid slugging on startup. Required on all long lineset and low ambient applications. Refer to the *Price Pages* or *Source 1 SmartSearch* for the correct part for each application.

Anchor Bracket Kit (S1-1HK0601): Firmly anchors unit to pad or support structure. When properly installed, approved for ground-mounted or roof-mounted applications.

Indoor TXV Kit (S1-1TVM*):** Thermal expansion valves precisely meter refrigerant for optimum performance over a wide range of conditions. See the *System charge* tables or refer to the *Price Pages* or *Source 1 Smart Search* for the TXV part number for each AC model.

Winter Cover Kit (S1-CCVRE*):** Custom fit winter cover protects AC outdoor unit from debris during the off-season. Remove before unit operation. Refer to the *Price Pages* or *Source 1 SmartSearch* for the correct cover for each application.

Touch-up Paint (S1-5130153**):** Color matched aerosol paint for touching up unit chassis and panels. Refer to the *Price Pages* or *Source 1 SmartSearch* for the correct color for each application.

Compressor Sound Blanket (S1-01007xxx000): A field installed dense foam cover that provides 2 dBA sound level reduction. Refer to the *Price Pages* or *Source 1 SmartSearch* for the correct blanket for each application.

Thermostat: Compatible thermostat controls are available through accessory sourcing. For optimum performance, these outdoor units are fully compatible with our residential *Hx™ Touch Screen Thermostats* available through *Source 1*. For more information, refer to the *Thermostats & Controllers* section of the *Offering Catalog*.

Sound power rating

Table 15: Sound power data– stage 2– Cooling – Octave Band Sound Power Level (db re. 1-pW)

Outdoor unit model	Power level 63 (Hz)	Power level 125 (Hz)	Power level 250 (Hz)	Power level 500 (Hz)	Power level 1000 (Hz)	Power level 2000 (Hz)	Power level 4000 (Hz)	Power level 8000 (Hz)	dBA	SQI
RAC13418B21S	68	69	66	67	68	67	62	56	73	19.0
RAC13424B21S	69	71	66	68	66	63	59	55	74	19.1
RAC13430B21S	68	72	64	68	64	62	59	54	73	19.1
RAC13436B21S	68	77	68	75	66	63	60	56	74	19.1
RAC13442B21S	69	73	68	70	67	65	63	59	76	19.1
RAC13448B21S	69	77	71	71	71	64	61	59	76	19.0
RAC13460B21S	69	72	73	72	71	69	66	63	77	19.1

Mechanical specifications

Manufacture and certifications

- Units shall be manufactured in an ISO 9001 certified facility.
- Units shall be certified by CSA to UL 1995/CSA 22.2 and performance certified to ANSI/AHRI Standard 210/240.
- Units shall be sound tested according to ANSI/AHRI Standard 270.
- Certified matched system ratings shall be available for download from the AHRI online directory at www.ahridirectory.org.

Unit application

- Units shall be approved for cooling operation between 55°F and 115°F without modification.
- Units shall be approved for line sets up to 80 ft equivalent length without modification.
- Units shall be approved for installation within 6 in. of a flat vertical wall without modification, according to the instructions in the technical literature.
- Units shall be certified to the 5th Edition (2014) of the Florida Building Code for a combined allowable lateral and uplift wind force of 200 psf and 100 psf, respectively, for both ground-mounted and rooftop-mounted applications up to 200 ft above grade with approved mounting kit.
- Units shall be designed to 76 dBA or less to minimize sound pollution.

Unit access

- Units shall have a removable fan guard that can be removed independently of the top for interior access through the top of the unit without damaging the coil.
- Units shall have two removable stamped steel coil guards for exterior coil access.

- Units shall have a separate compartment for electrical controls that can be accessed without disturbing the unit airflow.
- Units shall have a blockoff panel that can be removed to provide interior unit access through the side of the unit.
- Units shall have a removable blockoff panel and a swing away removable electrical panel that provides sufficient interior unit access for removing the compressor through the side of the unit.

Unit construction

- Units shall be shipped completely wired, piped, and assembled. Wiring pigtails shall be provided for field control wiring connections. Service valves shall be provided for field refrigerant line connections.
- Units shall be factory leak checked, run tested, and shipped with a holding charge of R-410A refrigerant.
- Unit cabinet components shall be G90 equivalent steel finished with powder-coat paint rated at a minimum of 500 h under ASTM B117 testing.
- Unit base pan shall be stamped G90 equivalent steel finished with powder-coat paint rated at a minimum of 500 h under ASTM B117 testing.
- Units shall have a single corner post opposite the electrical control box and two independently removable steel coil guard panels to optimize cabinet strength and serviceability.
- Units shall have L-shaped stamped sheet metal coil guards with punched and extruded slots for maximum panel durability and stiffness.
- Unit base valves shall be mounted diagonally on the unit base pan with service ports that provide sufficient clearance for low-loss hose fittings.
- Units shall be constructed with a high-pressure switch for system protection.
- Units shall be constructed with all badging and labels applied at the factory.

Unit components

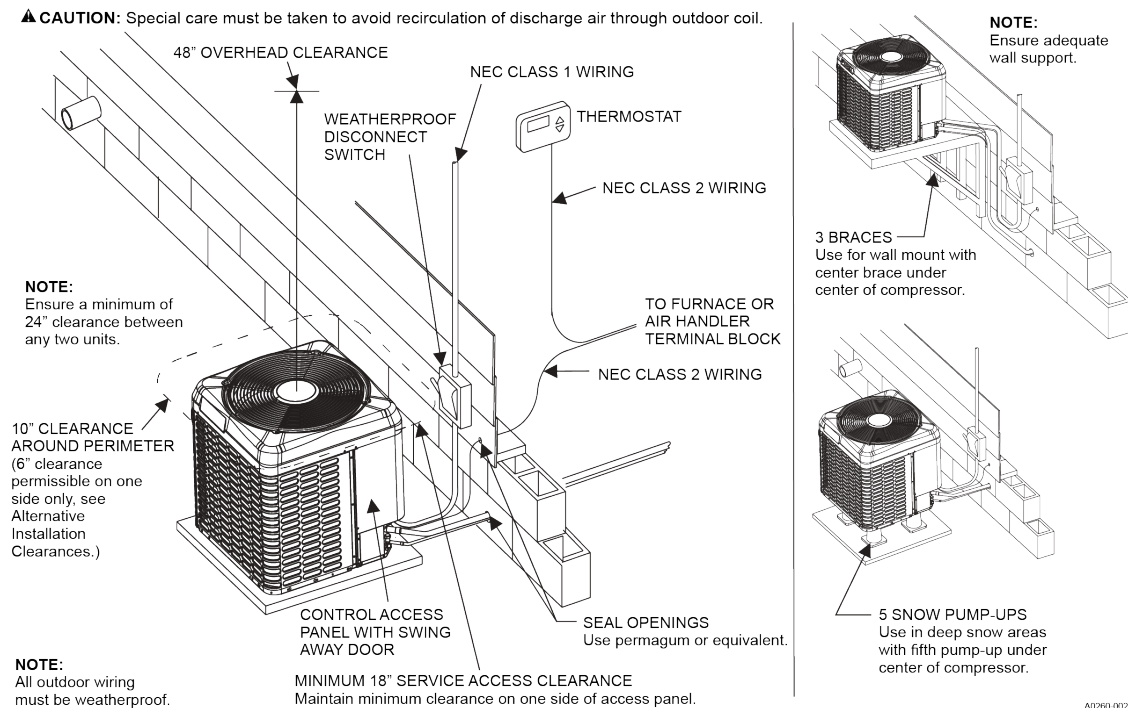
- Compressor shall be hermetic with internal electrical overload protection and internal overpressure protection.
- Compressor shall be mounted on rubber vibration isolators that do not require the removal of transportation clips or brackets.
- Outdoor fan shall be direct drive with vertical air discharge for low sound levels.
- Outdoor fan motor shall be totally enclosed with permanently lubricated ball bearings motors approved for vertical shaft applications.
- Outdoor coil shall be air cooled and have zinc-coated aluminum microchannel construction for small size and low weight.

Unit warranties

- Unit manufacturer shall provide a 10-year compressor warranty without a requirement for unit registration.
- Unit manufacturer shall provide a 5-year parts warranty without a requirement for unit registration.

Typical installation

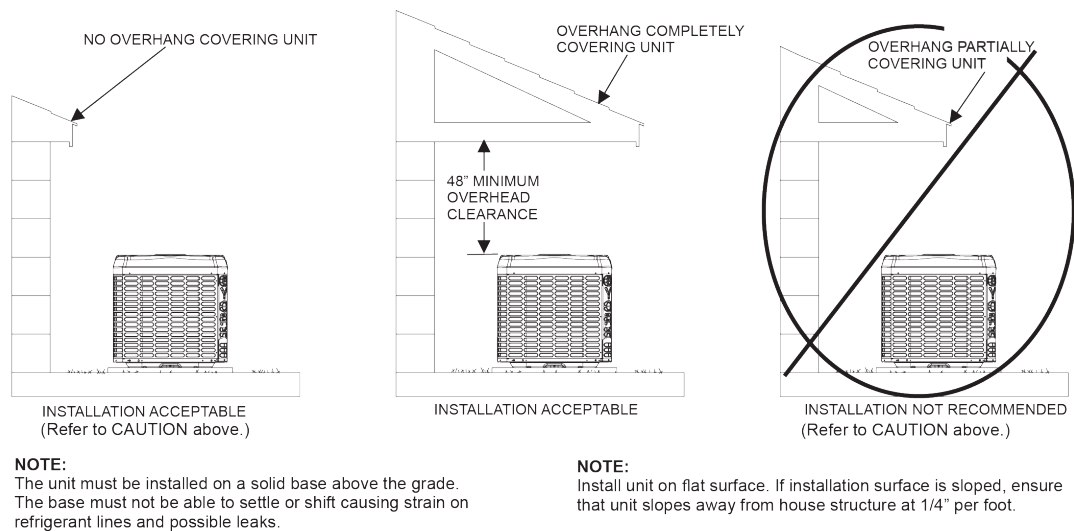
Figure 3: Typical installation



⚠ CAUTION

Care must be taken to prevent ice from damaging the unit. Damage may occur from ice falling onto unit from a sloped roof or from a vertical drip line due to a partial overhang.

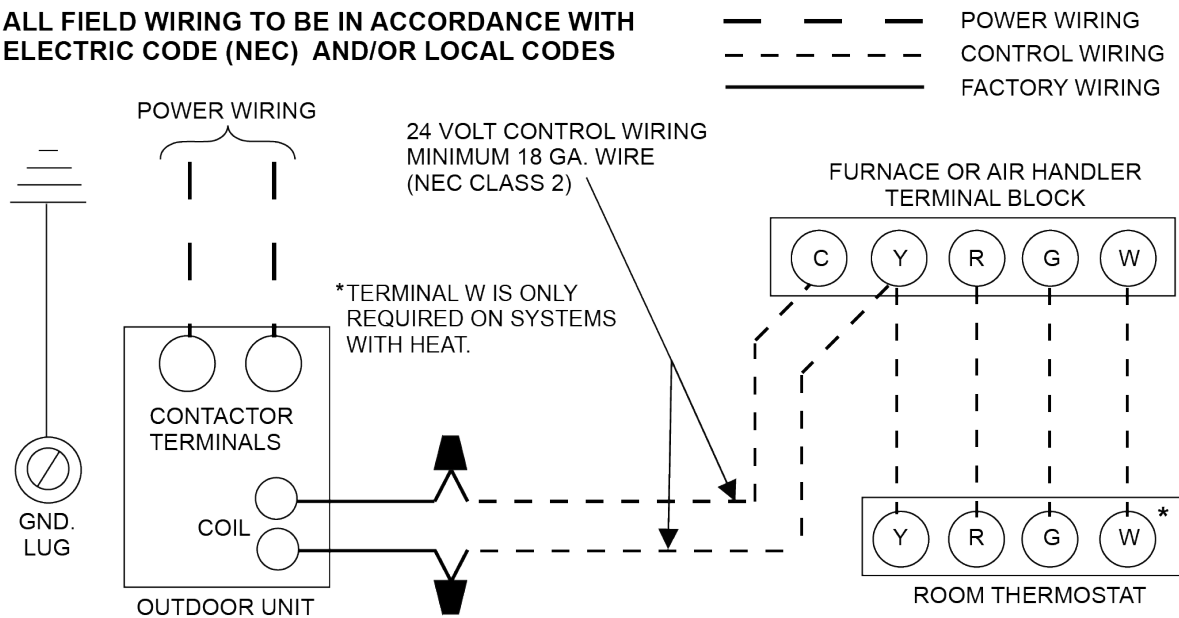
Figure 4: Typical installation



Typical field wiring

Figure 5: Typical field wiring

**ALL FIELD WIRING TO BE IN ACCORDANCE WITH
ELECTRIC CODE (NEC) AND/OR LOCAL CODES**

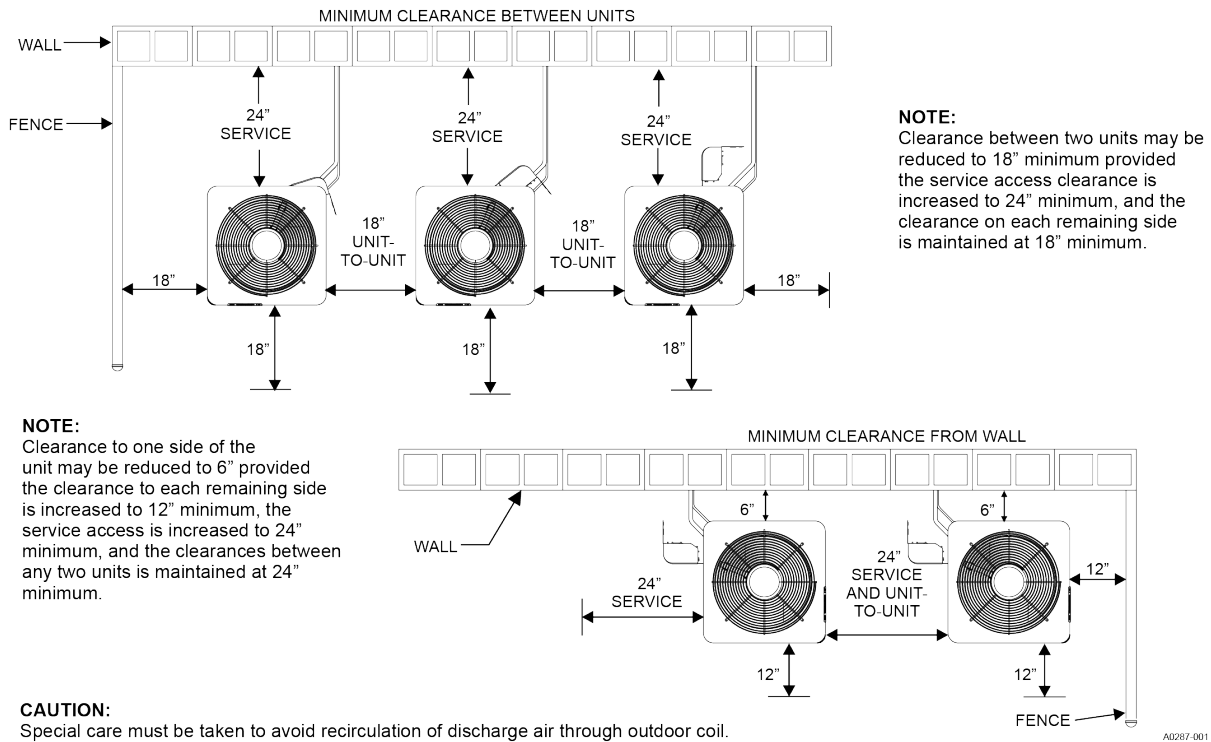


ALL OUTDOOR WIRING MUST BE WEATHERPROOF. USE COPPER CONDUCTORS ONLY.

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Alternative installation clearances

Figure 6: Alternative installation clearances



Performance data - 1.5 ton

See the following tables for performance and multiplier data for the RAC13418B21S unit.

Condenser only performance data - 1.5 ton

Table 16: Condenser only performance data - 1.5 ton

Saturated suction at compressor		Outdoor ambient temperature													
Temperature	Pressure	55°F		65°F		75°F		85°F		95°F		105°F		115°F	
(°F)	(psig)	MBH	kW	MBH	kW	MBH	kW	MBH	kW	MBH	kW	MBH	kW	MBH	kW
35	107	18.8	0.86	17.5	0.96	16.2	1.07	15.0	1.18	13.9	1.29	12.8	1.41	11.6	1.54
40	118	20.9	0.84	19.4	0.94	18.0	1.06	16.7	1.18	15.4	1.30	14.1	1.43	12.8	1.56
45	130	23.2	0.80	21.5	0.92	20.0	1.04	18.4	1.17	17.0	1.30	15.5	1.44	14.1	1.57
50	142	25.7	0.77	23.8	0.89	22.1	1.02	20.4	1.16	18.7	1.30	17.1	1.44	15.5	1.59
55	156	28.4	0.72	26.3	0.86	24.4	1.00	22.5	1.14	20.6	1.29	18.8	1.44	17.1	1.59

Condenser only performance data notes

- For outdoor unit (condenser) performance only. Data does not include the effects of air handler power or heat.
- Performance based on 15°F subcooling and 15°F superheat at the outdoor unit base valves:
 - Increase capacity by 1% for each 2°F increase in subcooling.
 - Decrease capacity by 1% for each 2°F decrease in subcooling.
- Maximum recommended condensing temperature is 140°F.

Performance data - 3.5 ton

See the following tables for performance and multiplier data for the RAC13442B21S unit.

Condenser only performance data - 3.5 ton

Table 32: Condenser only performance data - 3.5 ton

Saturated suction at compressor		Outdoor ambient temperature													
Temperature	Pressure	55°F		65°F		75°F		85°F		95°F		105°F		115°F	
(°F)	(psig)	MBH	kW	MBH	kW	MBH	kW	MBH	kW	MBH	kW	MBH	kW	MBH	kW
35	107	40.8	1.87	38.8	2.02	36.6	2.23	34.4	2.49	31.9	2.80	29.4	3.17	26.7	3.59
40	118	44.8	1.87	42.6	2.02	40.2	2.23	37.7	2.49	35.2	2.81	32.5	3.18	29.7	3.60
45	130	49.0	1.86	46.5	2.02	43.9	2.23	41.2	2.50	38.5	2.82	35.6	3.19	32.6	3.61
50	142	53.3	1.86	50.5	2.02	47.7	2.23	44.8	2.51	41.9	2.83	38.8	3.21	35.7	3.63
55	156	57.7	1.85	54.6	2.02	51.6	2.24	48.5	2.52	45.3	2.85	42.1	3.23	38.8	3.66

Condenser only performance data notes

- For outdoor unit (condenser) performance only. Data does not include the effects of air handler power or heat.
- Performance based on 15°F subcooling and 15°F superheat at the outdoor unit base valves:
 - a. Increase capacity by 1% for each 2°F increase in subcooling.
 - b. Decrease capacity by 1% for each 2°F decrease in subcooling.
- Maximum recommended condensing temperature is 140°F.