

CONDENSING UNITS



Rheem
Classic[®]
S E R I E S

RAPL-

14 SEER Models

Efficiencies up to 16.00 SEER

Nominal Sizes 1 1/2 to 5 Tons

[5.28 kW] to [17.6 kW]

Seven Models

Cooling Capacities

18,200 to 59,500 BTU/HR

[5.33 kW] to [17.44 kW]

R-410A
EARTH FRIENDLY REFRIGERANT

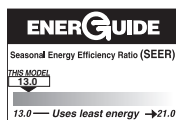
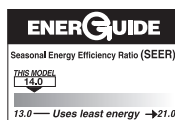


The Rheem *Classic*[®] Series High Efficiency RAPL- Condensing Units were designed with performance in mind. These units offer comfort, energy conservation and dependability for single, multi-family and light commercial applications.

These units also contain the most advanced alternate refrigerant which contains no chlorofluorocarbons (CFCs), or hydrochlorofluorocarbons (HCFCs), or other compounds that may leak from air-conditioning systems and potentially harm the protective ozone layer of the Earth's atmosphere.

The Rheem *Classic*[®] Series RAPL- Condensing Units are the result of an ongoing development program for improved efficiencies. These units are flexible enough to achieve up to 16.00 SEER in specific match-ups, continuing a tradition of high efficiency.

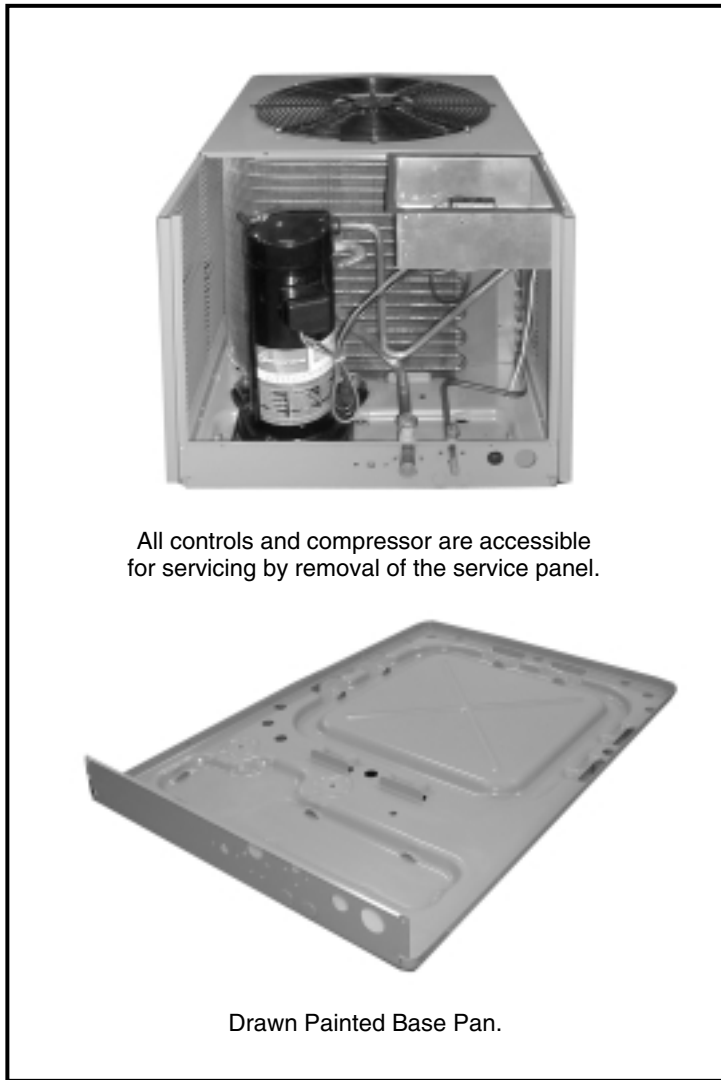
- Attractive, louvered wrap-around jacket protects the coil from yard hazards and weather extremes. Top grille is steel reinforced for extra strength. Cabinet is powder painted for all-weather protection.
- Air is discharged upward away from bushes and shrubs. The discharge pattern of the top grille provides minimum air restriction.
- Combination Grille/Motor Mount secures the motor to the underside of the discharge grille. The grille protects the motor windings and bearings from rain and snow.
- All controls are accessible by removing one service panel. Removable top grille provides access to the condenser fan motor and condenser coil.
- Single speed 8-pole fan motor designed for low speed, quiet, energy-saving operation.
- All models meet or exceed a 1000-hour salt spray test per ASTM B117 Standard Practice for Operating Salt Spray Testing Apparatus.



14 SEER MODELS



"Proper sizing and installation of equipment is critical to achieve optimal performance. Split system air conditioners and heat pumps must be matched with appropriate coil components to meet ENERGY STAR criteria. Ask your Contractor for details or visit www.energystar.gov <<http://www.energystar.gov/>>."



All controls and compressor are accessible for servicing by removal of the service panel.

Drawn Painted Base Pan.

Engineering Features

RAPL- Series Condensing Units

1. This unit contains a special scroll compressor that is designed specifically to operate with R-410A refrigerants and polyolester (POE) oils. The compressor is hermetically sealed and incorporates internal high temperature motor overload protection and durable insulation on the motor windings. It is externally mounted on rubber grommets to reduce vibration and noise.
2. Compressors have an internal pressure relief assembly to protect against excessive pressure differential.
3. All refrigerant connections are on the exterior of the unit, located close to the ground for neat appearing installations.
4. Cabinet is constructed of powder painted galvanized steel. The full wraparound louvered grille protects the coil from damage.
5. Copper tube—aluminum fin coils are used on all models.
6. The control box is located in the top corner of the cabinet providing for easy access through a service panel.
7. Service valves are standard on all models.
8. Power and control wiring are kept separate.
9. Every unit is factory charged and tested.
10. Separate compressor compartment for easy service access.
11. Drawn, painted base pan for extra corrosion resistance and sound reduction.
12. Automatic reset high and low pressure controls are standard on all models.
13. A liquid line filter drier is standard on all models (shipped – not installed).

Model Number Identification

<u>R</u>	<u>A</u>	<u>P</u>	<u>L</u>	<u>—</u>	<u>018</u>	<u>J</u>	<u>A</u>	<u>Z</u>
RHEEM	REMOTE CONDENSING UNIT	P = 14 SEER	DESIGN SERIES		COOLING CAPACITY	ELECTRICAL DESIGNATION	VARIATIONS	COOLING CONNECTION FITTING
			L = R-410A		018 = 18,000 BTU/HR [5.28 kW] 024 = 24,000 BTU/HR [7.03 kW] 030 = 30,000 BTU/HR [8.79 kW] 036 = 36,000 BTU/HR [10.55 kW] 042 = 42,000 BTU/HR [12.31 kW] 048 = 48,000 BTU/HR [14.07 kW] 060 = 60,000 BTU/HR [17.58 kW]	J = 208/230V-1-60	A-SERIES = FULL-FEATURED	Z = SWEAT W/SCROLL

[] Designates Metric Conversions

Field Installed Accessories

- **Compressor Time Delay Control**—Compressor will remain off for five minutes after power or thermostat interruption, allowing system pressures to equalize. (Model No. RXMD-B01)
- **Thermostats**—



300-Series *
Deluxe Programmable



200-Series *
Programmable



100-Series *
Non-Programmable

400-Series *
Special Applications/Programmable

Brand	Unique Model Number Prefix	Descriptor (3 Characters)	Series (3 Characters)	System (2 Characters)	Type (2 Characters)
RHC	-	TST	101	GE	MS
RHC=Rheem		TST=Thermostat	100=Non-Programmable	GE=Gas/Oil/Electric	SS=Single-Stage
			200=Programmable	HP=Heat Pump	MS=Multi-Stage
			300=Deluxe Programmable	MD=Modulating Furnace	
			400=Special Applications/Programmable	DF=Dual Fuel	
			UN=Universal AC/HP/GE		

* Photos are representative. Actual models may vary.

For detailed thermostat match-up information, see specification sheet form number T11-001.

- **Low Ambient Control**—Cycles outdoor fan to maintain adequate condensing pressures assuring liquid refrigerant flow to the coil. Allows indoor cooling with outdoor temperatures down to 0°F [-17.8°C]. It is recommended that this control be installed in units to be operated at outdoor ambient temperatures under 65°F (18°C). (Model No. RXAD-A08)
- **Hard Start Components**—(Available through PROSTOCK®)
- **Compressor Crankcase Heater (CCH)**—While scroll compressors usually do not require crankcase heaters, there are instances when a heater should be added. Refrigerant migration during the off cycle can result in a noisy start up. Add a crankcase heater to minimize refrigeration migration, and to help eliminate any start up noise or bearing “wash out”. (Available through PROSTOCK®)

SCROLL® COMPRESSOR

The scroll compressor is the key to efficiency for this Rheem model. It's the latest in high-efficiency compressor technology. The advanced scroll compressor offers low noise and vibration characteristics and features tolerance to liquid refrigerant and system contamination. The scroll compressor also has low start torque, reducing start problems in the field. And its unique design enables the RAPL- condensing units to perform efficiently, quietly and dependably. RAPL- JAZ has a 10-year compressor warranty.



Performance Data @ ARI Standard Conditions—Cooling: RAPL-

Outdoor Unit RAPL-	Model Numbers	80°F [26.5°C] DB/67°F [19.5°C] WB Indoor Air 95°F [35°C] DB Outdoor Air					Sound Rating dB	Indoor CFM [L/s]
		Total Capacity BTU/H [kW]	Net Sensible BTU/H [kW]	Net Latent BTU/H [kW]	EER	SEER		
018JAZ	RCFL-H*2417A*+RXMD-C04 ①	19,100 [5.6]	13,700 [4.0]	5,400 [1.6]	12.00	14.00	74	600 [283]
	RCFL-A*2414B*+RXMD-C04	19,100 [5.6]	13,700 [4.0]	5,400 [1.6]	12.00	14.00	74	600 [283]
	RCFL-A*2417B* (RGFD-06?MCK?)	19,500 [5.7]	14,000 [4.1]	5,500 [1.6]	13.15	15.50	74	600 [283]
	RCFL-A*2417B* (RGFD-07?MCK?)	19,500 [5.7]	14,000 [4.1]	5,500 [1.6]	13.20	15.50	74	600 [283]
	RCFL-A*2417B* (RGGD-06?MCK?)	19,600 [5.7]	14,050 [4.1]	5,550 [1.6]	13.35	15.50	74	600 [283]
	RCFL-A*2417B* (RGGD-07?MCK?)	19,600 [5.7]	14,050 [4.1]	5,550 [1.6]	13.25	15.50	74	625 [295]
	RCFL-A*2417B* (RGLR-07?AMK?)	19,600 [5.7]	14,050 [4.1]	5,550 [1.6]	13.40	15.50	74	600 [283]
	RCFL-A*2417B* (RGPR-05?BMK?)	19,500 [5.7]	14,000 [4.1]	5,500 [1.6]	13.10	15.00	74	600 [283]
	RCFL-A*2417B* (RGPR-07?AMK?)	19,600 [5.7]	14,050 [4.1]	5,550 [1.6]	13.30	15.50	74	600 [283]
	RCFL-A*2417B*+RXMD-C04	19,100 [5.6]	13,700 [4.0]	5,400 [1.6]	12.00	14.00	74	600 [283]
	RCFL-H*2414A*+RXMD-C04	19,100 [5.6]	13,700 [4.0]	5,400 [1.6]	12.00	14.00	74	600 [283]
	RCFL-H*2417A* (RGFD-06?MCK?)	19,500 [5.7]	14,000 [4.1]	5,500 [1.6]	13.15	15.50	74	600 [283]
	RCFL-H*2417A* (RGFD-07?MCK?)	19,500 [5.7]	14,000 [4.1]	5,500 [1.6]	13.20	15.50	74	600 [283]
	RCFL-H*2417A* (RGGD-06?MCK?)	19,600 [5.7]	14,050 [4.1]	5,550 [1.6]	13.35	15.50	74	600 [283]
	RCFL-H*2417A* (RGGD-07?MCK?)	19,600 [5.7]	14,050 [4.1]	5,550 [1.6]	13.25	15.50	74	625 [295]
	RCFL-H*2417A* (RGJD-06?MCK?)	19,600 [5.7]	14,050 [4.1]	5,550 [1.6]	13.35	15.50	74	600 [283]
	RCFL-H*2417A* (RGJD-07?MCK?)	19,600 [5.7]	14,050 [4.1]	5,550 [1.6]	13.25	15.50	74	625 [295]
	RCFL-H*2417A* (RGLR-07?AMK?)	19,600 [5.7]	14,050 [4.1]	5,550 [1.6]	13.40	15.50	74	600 [283]
	RCFL-H*2417A* (RGPR-05?BMK?)	19,500 [5.7]	14,000 [4.1]	5,500 [1.6]	13.10	15.00	74	600 [283]
	RCFL-H*2417A* (RGPR-07?AMK?)	19,600 [5.7]	14,050 [4.1]	5,550 [1.6]	13.30	15.50	74	600 [283]
	17AHBL24HM (RCHL-24A2)	18,700 [5.5]	12,700 [3.7]	6,000 [1.8]	12.75	14.50	74	650 [307]
	RBHK-17 (RCHL-24A2)	18,300 [5.4]	12,700 [3.7]	5,600 [1.6]	12.65	15.00	74	600 [283]
	RBHP-17 (RCHL-24A2)	18,700 [5.5]	12,700 [3.7]	6,000 [1.8]	12.75	14.50	74	650 [307]
	RCHL-24A2 (RGFD-06?MCK?)	18,200 [5.3]	12,650 [3.7]	5,550 [1.6]	12.40	14.50	74	600 [283]
	RCHL-24A2 (RGFD-07?MCK?)	18,200 [5.3]	12,650 [3.7]	5,550 [1.6]	12.40	14.50	74	600 [283]
	RCHL-24A2 (RGGD-06?MCK?)	18,200 [5.3]	12,700 [3.7]	5,500 [1.6]	12.55	14.50	74	600 [283]
	RCHL-24A2 (RGGD-07?MCK?)	18,200 [5.3]	12,650 [3.7]	5,550 [1.6]	12.50	14.50	74	625 [295]
	RCHL-24A2 (RGJD-06?MCK?)	18,200 [5.3]	12,700 [3.7]	5,500 [1.6]	12.55	14.50	74	600 [283]
	RCHL-24A2 (RGJD-07?MCK?)	18,200 [5.3]	12,650 [3.7]	5,550 [1.6]	12.50	14.50	74	625 [295]
	RCHL-24A2 (RGLR-07?AMK?)	18,200 [5.3]	12,700 [3.7]	5,500 [1.6]	12.60	14.50	74	600 [283]
	RCHL-24A2 (RGPR-05?BMK?)	18,200 [5.3]	12,600 [3.7]	5,600 [1.6]	12.30	14.50	74	600 [283]
	RCHL-24A2 (RGPR-07?AMK?)	18,200 [5.3]	12,650 [3.7]	5,550 [1.6]	12.55	14.50	74	600 [283]
	RCHL-24A2+RXMD-C04	17,700 [5.2]	12,150 [3.6]	5,550 [1.6]	11.05	13.00	74	600 [283]
	RCQD-2417A*	19,300 [5.7]	14,150 [4.1]	5,150 [1.5]	11.90	14.00	74	600 [283]
	RCQD-2417A* (RGFD-06?MCK?)	19,600 [5.7]	14,350 [4.2]	5,250 [1.5]	13.20	15.50	74	600 [283]
	RCQD-2417A* (RGFD-07?MCK?)	19,600 [5.7]	14,350 [4.2]	5,250 [1.5]	13.25	15.50	74	600 [283]
	RCQD-2417A* (RGPL-05?BMK?)	19,600 [5.7]	14,350 [4.2]	5,250 [1.5]	13.15	15.50	74	600 [283]
	RCQD-2417A* (RGPL-07?BRK?)	19,700 [5.8]	14,450 [4.2]	5,250 [1.5]	13.35	16.00	74	600 [283]
	RCQD-2417A* (RGPR-05?BMK?)	19,600 [5.7]	14,350 [4.2]	5,250 [1.5]	13.15	15.50	74	600 [283]
	RCQD-2417A* (RGPR-07?AMK?)	19,700 [5.8]	14,450 [4.2]	5,250 [1.5]	13.35	16.00	74	600 [283]
17AHSL18AU (RCSL-A*2417A*)	19,300 [5.7]	13,850 [4.1]	5,450 [1.6]	12.35	14.00	74	600 [283]	
17AHL24HM (RCSL-H*2417A*)	19,600 [5.7]	14,050 [4.1]	5,550 [1.6]	13.20	15.50	74	600 [283]	
17AHSL18HM (RCSL-H*2417A*)	19,300 [5.7]	13,850 [4.1]	5,450 [1.6]	12.35	14.00	74	600 [283]	
RHKL-HM2417 (RCSL-H*2417A*)	19,900 [5.8]	14,250 [4.2]	5,650 [1.7]	13.45	15.50	74	650 [307]	
RHLL-HM2417 (RCSL-H*2417A*)	19,600 [5.7]	14,050 [4.1]	5,550 [1.6]	13.20	15.50	74	600 [283]	
RHSL-HM1817 (RCSL-H*2417A*)	19,300 [5.7]	13,850 [4.1]	5,450 [1.6]	12.35	14.00	74	600 [283]	
024JAZ	RCFL-H*2417A* ①	24,000 [7.0]	17,400 [5.1]	6,600 [1.9]	12.05	14.00	72	800 [378]
	RCFL-A*2414B*	24,000 [7.0]	17,400 [5.1]	6,600 [1.9]	12.05	14.00	72	800 [378]
	RCFL-A*2417B*	24,000 [7.0]	17,400 [5.1]	6,600 [1.9]	12.05	14.00	72	800 [378]
	RCFL-A*2417B* (RGFD-06?MCK?)	24,400 [7.1]	17,650 [5.2]	6,750 [2.0]	12.85	15.00	72	800 [378]
	RCFL-A*2417B* (RGFD-07?MCK?)	24,400 [7.1]	17,700 [5.2]	6,700 [2.0]	12.95	15.00	72	800 [378]
	RCFL-A*2417B* (RGGD-06?MCK?)	24,400 [7.1]	17,750 [5.2]	6,650 [1.9]	13.15	15.50	72	800 [378]
	RCFL-A*2417B* (RGGD-07?MCK?)	24,400 [7.1]	17,750 [5.2]	6,650 [1.9]	13.05	15.00	72	800 [378]
	RCFL-A*2417B* (RGLR-07?AMK?)	24,600 [7.2]	17,800 [5.2]	6,800 [2.0]	13.35	15.50	72	800 [378]
	RCFL-A*2417B* (RGPR-05?BMK?)	24,400 [7.1]	17,700 [5.2]	6,700 [2.0]	12.95	15.00	72	775 [366]
	RCFL-A*2417B* (RGPR-07?AMK?)	24,600 [7.2]	17,800 [5.2]	6,800 [2.0]	13.25	15.50	72	800 [378]

① Highest sales volume tested combination required by D.O.E. test procedures.

[] Designates Metric Conversions

Performance Data @ ARI Standard Conditions—Cooling: RAPL- (continued)

Outdoor Unit RAPL-	Model Numbers	80°F [26.5°C] DB/67°F [19.5°C] WB Indoor Air 95°F [35°C] DB Outdoor Air					Sound Rating dB	Indoor CFM [L/s]
		Total Capacity BTU/H [kW]	Net Sensible BTU/H [kW]	Net Latent BTU/H [kW]	EER	SEER		
030JAZ	RCFL-H*3621A* (RGFD-07?MCK?)	29,000 [8.5]	21,450 [6.3]	7,550 [2.2]	12.45	14.50	73	1,000 [472]
	RCFL-H*3621A* (RGGD-06?MCK?)	29,000 [8.5]	21,500 [6.3]	7,500 [2.2]	12.50	14.50	73	1,000 [472]
	RCFL-H*3621A* (RGJD-06?MCK?)	29,000 [8.5]	21,500 [6.3]	7,500 [2.2]	12.50	14.50	73	1,000 [472]
	RCFL-H*3621A* (RGPR-05?BMK?)	29,000 [8.5]	21,450 [6.3]	7,550 [2.2]	12.35	14.50	73	1,000 [472]
	RCFL-H*3621A* (RGPR-07?AMK?)	29,000 [8.5]	21,550 [6.3]	7,450 [2.2]	12.70	14.50	73	1,000 [472]
	RCFL-H*3621A* (RGPR-07?BRQ?)	29,400 [8.6]	21,700 [6.4]	7,700 [2.3]	13.15	15.50	73	1,000 [472]
	RCFL-H*3621A*+RXMD-C04	28,400 [8.3]	21,050 [6.2]	7,350 [2.2]	12.00	14.00	73	950 [448]
	RCHL-36A1	27,000 [7.9]	19,200 [5.6]	7,800 [2.3]	11.25	13.00	73	950 [448]
	21AHBL36HM (RCHL-36A1)	28,200 [8.3]	20,550 [6.0]	7,650 [2.2]	12.85	15.00	73	1,050 [495]
	RBHK-21 (RCHL-36A1)	28,000 [8.2]	20,000 [5.9]	8,000 [2.3]	12.85	15.00	73	1,000 [472]
	RBHP-21 (RCHL-36A1)	28,200 [8.3]	20,550 [6.0]	7,650 [2.2]	12.85	15.00	73	1,050 [495]
	RCHL-36A1 (RGFD-07?MCK?)	27,600 [8.1]	19,600 [5.7]	8,000 [2.3]	12.10	14.00	73	1,000 [472]
	RCHL-36A1 (RGGD-06?MCK?)	27,800 [8.1]	19,700 [5.8]	8,100 [2.4]	12.25	14.00	73	1,000 [472]
	RCHL-36A1 (RGJD-06?MCK?)	27,800 [8.1]	19,700 [5.8]	8,100 [2.4]	12.25	14.00	73	1,000 [472]
	RCHL-36A1 (RGPR-05?BMK?)	27,600 [8.1]	19,600 [5.7]	8,000 [2.3]	12.05	14.00	73	1,000 [472]
	RCHL-36A1 (RGPR-07?AMK?)	27,800 [8.1]	19,750 [5.8]	8,050 [2.4]	12.40	14.50	73	1,000 [472]
	RCHL-36A1 (RGPR-07?BRQ?)	28,000 [8.2]	19,950 [5.8]	8,050 [2.4]	12.80	15.00	73	1,000 [472]
	RCQD-3621A*	29,200 [8.6]	22,200 [6.5]	7,000 [2.1]	12.20	14.00	73	1,000 [472]
	RCQD-3621A* (RGFD-06?MCK?)	29,600 [8.7]	22,550 [6.6]	7,050 [2.1]	12.75	14.50	73	1,000 [472]
	RCQD-3621A* (RGFD-07?MCK?)	29,600 [8.7]	22,500 [6.6]	7,100 [2.1]	13.00	15.00	73	1,000 [472]
	RCQD-3621A* (RGJD-06?MCK?)	29,800 [8.7]	22,700 [6.7]	7,100 [2.1]	13.10	15.00	73	1,000 [472]
	RCQD-3621A* (RGJD-07?MCK?)	29,800 [8.7]	22,700 [6.7]	7,100 [2.1]	13.05	15.00	73	1,025 [484]
	RCQD-3621A* (RGPL-05?BMK?)	29,600 [8.7]	22,500 [6.6]	7,100 [2.1]	12.95	15.00	73	1,000 [472]
	RCQD-3621A* (RGPL-07?BRK?)	29,800 [8.7]	22,650 [6.6]	7,150 [2.1]	13.30	15.50	73	1,000 [472]
	RCQD-3621A* (RGPL-07?BRQ?)	30,000 [8.8]	22,850 [6.7]	7,150 [2.1]	13.75	16.00	73	1,000 [472]
	RCQD-3621A* (RGPR-05?BMK?)	29,600 [8.7]	22,500 [6.6]	7,100 [2.1]	12.95	15.00	73	1,000 [472]
	RCQD-3621A* (RGPR-07?AMK?)	29,800 [8.7]	22,650 [6.6]	7,150 [2.1]	13.30	15.50	73	1,000 [472]
	RCQD-3621A* (RGPR-07?BRQ?)	30,000 [8.8]	22,850 [6.7]	7,150 [2.1]	13.75	16.00	73	1,000 [472]
	RCQD-3624A*	29,200 [8.6]	22,200 [6.5]	7,000 [2.1]	12.20	14.00	73	1,000 [472]
	RCQD-3624A* (RGPL-07?BRQ?)	30,000 [8.8]	22,850 [6.7]	7,150 [2.1]	13.75	16.00	73	1,000 [472]
	RCQD-3624A* (RGPR-07?BRQ?)	30,000 [8.8]	22,850 [6.7]	7,150 [2.1]	13.75	16.00	73	1,000 [472]
	17AHSL30AU (RCSL-A*3617A*)	28,600 [8.4]	21,200 [6.2]	7,400 [2.2]	12.15	14.00	73	950 [448]
	17AHL36HM (RCSL-H*3617A*)	29,400 [8.6]	21,700 [6.4]	7,700 [2.3]	13.15	15.50	73	1,000 [472]
17AHSL30HM (RCSL-H*3617A*)	28,600 [8.4]	21,200 [6.2]	7,400 [2.2]	12.15	14.00	73	950 [448]	
RHKL-HM3617 (RCSL-H*3617A*)	29,400 [8.6]	21,700 [6.4]	7,700 [2.3]	13.15	15.50	73	1,000 [472]	
RHLL-HM3617 (RCSL-H*3617A*)	29,400 [8.6]	21,700 [6.4]	7,700 [2.3]	13.15	15.50	73	1,000 [472]	
RHSL-HM3017 (RCSL-H*3617A*)	28,600 [8.4]	21,200 [6.2]	7,400 [2.2]	12.15	14.00	73	950 [448]	
036JAZ	RCFL-H*3617A*+RXMD-C04 ①	35,000 [10.3]	25,300 [7.4]	9,700 [2.8]	12.00	14.00	73	1,075 [507]
	RCFL-A*3617B* (RGFD-07?MCK?)	35,000 [10.3]	25,250 [7.4]	9,750 [2.9]	12.35	14.50	73	1,000 [472]
	RCFL-A*3617B* (RGGD-06?MCK?)	35,000 [10.3]	25,250 [7.4]	9,750 [2.9]	12.40	14.50	73	1,000 [472]
	RCFL-A*3617B* (RGGD-07?MCK?)	35,000 [10.3]	25,350 [7.4]	9,650 [2.8]	12.35	14.50	73	1,025 [484]
	RCFL-A*3617B* (RGLR-07?AMK?)	35,200 [10.3]	25,450 [7.5]	9,750 [2.9]	12.65	14.50	73	1,025 [484]
	RCFL-A*3617B* (RGPR-07?AMK?)	35,000 [10.3]	25,350 [7.4]	9,650 [2.8]	12.55	14.50	73	1,000 [472]
	RCFL-A*3617B*+RXMD-C04	35,000 [10.3]	25,300 [7.4]	9,700 [2.8]	12.00	14.00	73	1,075 [507]
	RCFL-A*3621B* (RGFD-06?MCK?)	34,800 [10.2]	25,150 [7.4]	9,650 [2.8]	12.15	14.50	73	1,000 [472]
	RCFL-A*3621B* (RGFD-07?MCK?)	35,000 [10.3]	25,250 [7.4]	9,750 [2.9]	12.40	14.50	73	1,000 [472]
	RCFL-A*3621B* (RGFD-09?ZCM?)	35,800 [10.5]	25,850 [7.6]	9,950 [2.9]	12.60	14.50	73	1,150 [543]
	RCFL-A*3621B* (RGGD-06?MCK?)	35,000 [10.3]	25,300 [7.4]	9,700 [2.8]	12.45	14.50	73	1,000 [472]
	RCFL-A*3621B* (RGGD-07?MCK?)	35,000 [10.3]	25,350 [7.4]	9,650 [2.8]	12.40	14.50	73	1,025 [484]
	RCFL-A*3621B* (RGLR-07?AMK?)	35,200 [10.3]	25,500 [7.5]	9,700 [2.8]	12.70	15.00	73	1,025 [484]
	RCFL-A*3621B* (RGPR-05?BMK?)	35,000 [10.3]	25,250 [7.4]	9,750 [2.9]	12.30	14.50	73	1,000 [472]
	RCFL-A*3621B* (RGPR-07?AMK?)	35,000 [10.3]	25,350 [7.4]	9,650 [2.8]	12.60	14.50	73	1,000 [472]
	RCFL-A*3621B* (RGPR-07?BRQ?)	35,200 [10.3]	25,500 [7.5]	9,700 [2.8]	12.95	14.50	73	1,000 [472]
	RCFL-H*3617A* (RGFD-07?MCK?)	35,000 [10.3]	25,250 [7.4]	9,750 [2.9]	12.35	14.50	73	1,000 [472]
	RCFL-H*3617A* (RGGD-06?MCK?)	35,000 [10.3]	25,250 [7.4]	9,750 [2.9]	12.40	14.50	73	1,000 [472]
RCFL-H*3617A* (RGGD-07?MCK?)	35,000 [10.3]	25,350 [7.4]	9,650 [2.8]	12.35	14.50	73	1,025 [484]	

① Highest sales volume tested combination required by D.O.E. test procedures.

[] Designates Metric Conversions

Performance Data @ ARI Standard Conditions—Cooling: RAPL- (continued)

Outdoor Unit RAPL-	Model Numbers	80°F [26.5°C] DB/67°F [19.5°C] WB Indoor Air 95°F [35°C] DB Outdoor Air					Sound Rating dB	Indoor CFM [L/s]
	Indoor Coil and/or Air Handler	Total Capacity BTU/H [kW]	Net Sensible BTU/H [kW]	Net Latent BTU/H [kW]	EER	SEER		
036JAZ	RCFL-H*3617A* (RGJD-06?MCK?)	35,000 [10.3]	25,250 [7.4]	9,750 [2.9]	12.40	14.50	73	1,000 [472]
	RCFL-H*3617A* (RGJD-07?MCK?)	35,000 [10.3]	25,350 [7.4]	9,650 [2.8]	12.35	14.50	73	1,025 [484]
	RCFL-H*3617A* (RGLR-07?AMK?)	35,200 [10.3]	25,450 [7.5]	9,750 [2.9]	12.65	14.50	73	1,025 [484]
	RCFL-H*3617A* (RGPR-07?AMK?)	35,000 [10.3]	25,350 [7.4]	9,650 [2.8]	12.55	14.50	73	1,000 [472]
	RCFL-H*3621A* (RGFD-07?MCK?)	35,000 [10.3]	25,250 [7.4]	9,750 [2.9]	12.40	14.50	73	1,000 [472]
	RCFL-H*3621A* (RGFD-09?ZCM?)	35,800 [10.5]	25,850 [7.6]	9,950 [2.9]	12.60	14.50	73	1,150 [543]
	RCFL-H*3621A* (RGGD-06?MCK?)	35,000 [10.3]	25,300 [7.4]	9,700 [2.8]	12.45	14.50	73	1,000 [472]
	RCFL-H*3621A* (RGGD-07?MCK?)	35,000 [10.3]	25,350 [7.4]	9,650 [2.8]	12.40	14.50	73	1,025 [484]
	RCFL-H*3621A* (RGJD-06?MCK?)	35,000 [10.3]	25,300 [7.4]	9,700 [2.8]	12.45	14.50	73	1,000 [472]
	RCFL-H*3621A* (RGJD-07?MCK?)	35,000 [10.3]	25,350 [7.4]	9,650 [2.8]	12.40	14.50	73	1,025 [484]
	RCFL-H*3621A* (RGLR-07?AMK?)	35,200 [10.3]	25,500 [7.5]	9,700 [2.8]	12.70	15.00	73	1,025 [484]
	RCFL-H*3621A* (RGPR-05?BMK?)	35,000 [10.3]	25,250 [7.4]	9,750 [2.9]	12.30	14.50	73	1,000 [472]
	RCFL-H*3621A* (RGPR-07?AMK?)	35,000 [10.3]	25,350 [7.4]	9,650 [2.8]	12.60	14.50	73	1,000 [472]
	RCFL-H*3621A* (RGPR-07?BRQ?)	35,200 [10.3]	25,500 [7.5]	9,700 [2.8]	12.95	14.50	73	1,000 [472]
	RCFL-H*3621A*+RXMD-C04	35,000 [10.3]	25,300 [7.4]	9,700 [2.8]	12.00	14.00	73	1,075 [507]
	RCHL-36A1	33,600 [9.8]	23,950 [7.0]	9,650 [2.8]	11.15	13.00	73	1,200 [566]
	21AHBL36HM (RCHL-36A1)	34,800 [10.2]	24,750 [7.3]	10,050 [2.9]	12.35	14.50	73	1,225 [578]
	RBHK-21 (RCHL-36A1)	34,400 [10.1]	24,750 [7.3]	9,650 [2.8]	12.25	14.50	73	1,200 [566]
	RBHP-21 (RCHL-36A1)	34,800 [10.2]	24,750 [7.3]	10,050 [2.9]	12.35	14.50	73	1,225 [578]
	RCHL-36A1 (RGFD-09?ZCM?)	34,000 [10.0]	24,650 [7.2]	9,350 [2.7]	12.05	14.00	73	1,150 [543]
	RCHL-36A1 (RGFD-10?ZCM?)	34,200 [10.0]	24,500 [7.2]	9,700 [2.8]	11.95	14.00	73	1,175 [554]
	RCHL-36A1 (RGFD-12?RCM?)	34,200 [10.0]	24,600 [7.2]	9,600 [2.8]	12.05	14.00	73	1,225 [578]
	RCHL-36A1 (RGGD-09?ZCM?)	34,200 [10.0]	24,600 [7.2]	9,600 [2.8]	12.10	14.00	73	1,175 [554]
	RCHL-36A1 (RGGD-10?ZCM?)	34,200 [10.0]	24,650 [7.2]	9,550 [2.8]	12.10	14.00	73	1,175 [554]
	RCHL-36A1 (RGGD-12?RCM?)	34,400 [10.1]	24,700 [7.2]	9,700 [2.8]	12.20	14.00	73	1,225 [578]
	RCHL-36A1 (RGJD-09?ZCM?)	34,200 [10.0]	24,600 [7.2]	9,600 [2.8]	12.10	14.00	73	1,175 [554]
	RCHL-36A1 (RGJD-10?ZCM?)	34,200 [10.0]	24,650 [7.2]	9,550 [2.8]	12.10	14.00	73	1,175 [554]
	RCHL-36A1 (RGJD-12?RCM?)	34,400 [10.1]	24,700 [7.2]	9,700 [2.8]	12.20	14.00	73	1,225 [578]
	RCHL-36A1 (RGLR-07?AMK?)	34,000 [10.0]	24,400 [7.1]	9,600 [2.8]	11.80	13.50	73	1,200 [566]
	RCHL-36A1 (RGLR-10?BRM?)	34,400 [10.1]	24,700 [7.2]	9,700 [2.8]	12.25	14.50	73	1,200 [566]
	RCHL-36A1 (RGLR-12?ARM?)	34,400 [10.1]	24,750 [7.3]	9,650 [2.8]	12.30	14.50	73	1,225 [578]
	RCHL-36A1 (RGPR-07?AMK?)	34,000 [10.0]	24,400 [7.1]	9,600 [2.8]	11.80	13.50	73	1,200 [566]
	RCHL-36A1 (RGPR-07?BRQ?)	34,400 [10.1]	24,750 [7.3]	9,650 [2.8]	12.25	14.50	73	1,200 [566]
	RCHL-36A1 (RGPR-10?BRM?)	34,200 [10.0]	24,600 [7.2]	9,600 [2.8]	12.10	14.00	73	1,225 [578]
	RCHL-36A1 (RGPR-12?ARM?)	34,600 [10.1]	24,650 [7.2]	9,950 [2.9]	12.25	14.50	73	1,250 [590]
	RCHL-36A2	33,600 [9.8]	23,950 [7.0]	9,650 [2.8]	11.15	13.00	73	1,200 [566]
	RBHK-21 (RCHL-36A2)	34,800 [10.2]	24,750 [7.3]	10,050 [2.9]	12.40	14.50	73	1,200 [566]
	RCHL-36A2 (RGFD-09?ZCM?)	34,000 [10.0]	24,650 [7.2]	9,350 [2.7]	12.05	14.00	73	1,150 [543]
	RCHL-36A2 (RGFD-10?ZCM?)	34,200 [10.0]	24,500 [7.2]	9,700 [2.8]	11.95	14.00	73	1,175 [554]
	RCHL-36A2 (RGFD-12?RCM?)	34,200 [10.0]	24,600 [7.2]	9,600 [2.8]	12.05	14.00	73	1,225 [578]
	RCHL-36A2 (RGGD-09?ZCM?)	34,200 [10.0]	24,600 [7.2]	9,600 [2.8]	12.10	14.00	73	1,175 [554]
	RCHL-36A2 (RGGD-10?ZCM?)	34,200 [10.0]	24,650 [7.2]	9,550 [2.8]	12.10	14.00	73	1,175 [554]
	RCHL-36A2 (RGGD-12?RCM?)	34,400 [10.1]	24,700 [7.2]	9,700 [2.8]	12.20	14.00	73	1,225 [578]
	RCHL-36A2 (RGJD-09?ZCM?)	34,200 [10.0]	24,600 [7.2]	9,600 [2.8]	12.10	14.00	73	1,175 [554]
	RCHL-36A2 (RGJD-10?ZCM?)	34,200 [10.0]	24,650 [7.2]	9,550 [2.8]	12.10	14.00	73	1,175 [554]
	RCHL-36A2 (RGJD-12?RCM?)	34,400 [10.1]	24,700 [7.2]	9,700 [2.8]	12.20	14.00	73	1,225 [578]
	RCHL-36A2 (RGLR-07?AMK?)	34,000 [10.0]	24,400 [7.1]	9,600 [2.8]	11.80	13.50	73	1,200 [566]
	RCHL-36A2 (RGLR-10?BRM?)	34,400 [10.1]	24,700 [7.2]	9,700 [2.8]	12.25	14.50	73	1,200 [566]
	RCHL-36A2 (RGLR-12?ARM?)	34,400 [10.1]	24,750 [7.3]	9,650 [2.8]	12.30	14.50	73	1,225 [578]
	RCHL-36A2 (RGPR-07?AMK?)	34,000 [10.0]	24,400 [7.1]	9,600 [2.8]	11.80	13.50	73	1,200 [566]
RCHL-36A2 (RGPR-07?BRQ?)	34,400 [10.1]	24,750 [7.3]	9,650 [2.8]	12.25	14.50	73	1,200 [566]	
RCHL-36A2 (RGPR-10?BRM?)	34,200 [10.0]	24,600 [7.2]	9,600 [2.8]	12.10	14.00	73	1,225 [578]	
RCHL-36A2 (RGPR-12?ARM?)	34,600 [10.1]	24,650 [7.2]	9,950 [2.9]	12.25	14.50	73	1,250 [590]	
RCQD-3621A*	36,600 [10.7]	27,850 [8.2]	8,750 [2.6]	11.95	14.00	73	1,200 [566]	
RCQD-3621A* (RGFD-06?MCK?)	36,800 [10.8]	28,000 [8.2]	8,800 [2.6]	12.10	14.00	73	1,175 [554]	
RCQD-3621A* (RGFD-07?MCK?)	36,800 [10.8]	28,000 [8.2]	8,800 [2.6]	12.05	14.00	73	1,200 [566]	

① Highest sales volume tested combination required by D.O.E. test procedures.

[] Designates Metric Conversions

Performance Data @ ARI Standard Conditions—Cooling: RAPL- (continued)

Outdoor Unit RAPL-	Model Numbers	80°F [26.5°C] DB/67°F [19.5°C] WB Indoor Air 95°F [35°C] DB Outdoor Air					Sound Rating dB	Indoor CFM [L/s]
	Indoor Coil and/or Air Handler	Total Capacity BTU/H [kW]	Net Sensible BTU/H [kW]	Net Latent BTU/H [kW]	EER	SEER		
036JAZ	RCQD-3621A* (RGFD-09?ZCM?)	37,200 [10.9]	28,000 [8.2]	9,200 [2.7]	12.90	15.00	73	1,150 [543]
	RCQD-3621A* (RGFD-10?ZCM?)	37,400 [11.0]	28,450 [8.3]	8,950 [2.6]	12.85	15.00	73	1,175 [554]
	RCQD-3621A* (RGJD-06?MCK?)	37,000 [10.8]	28,150 [8.2]	8,850 [2.6]	12.25	14.00	73	1,225 [578]
	RCQD-3621A* (RGJD-07?MCK?)	36,800 [10.8]	28,000 [8.2]	8,800 [2.6]	12.10	14.00	73	1,225 [578]
	RCQD-3621A* (RGJD-09?ZCM?)	37,400 [11.0]	28,450 [8.3]	8,950 [2.6]	13.00	15.00	73	1,175 [554]
	RCQD-3621A* (RGJD-10?ZCM?)	37,400 [11.0]	28,450 [8.3]	8,950 [2.6]	13.00	15.00	73	1,175 [554]
	RCQD-3621A* (RGPL-05?BMK?)	36,800 [10.8]	27,950 [8.2]	8,850 [2.6]	12.15	14.00	73	1,200 [566]
	RCQD-3621A* (RGPL-07?BRK?)	37,200 [10.9]	28,300 [8.3]	8,900 [2.6]	12.65	14.50	73	1,200 [566]
	RCQD-3621A* (RGPL-07?BRQ?)	37,600 [11.0]	28,600 [8.4]	9,000 [2.6]	13.15	15.50	73	1,200 [566]
	RCQD-3621A* (RGPL-10?BRM?)	37,400 [11.0]	28,450 [8.3]	8,950 [2.6]	12.95	15.00	73	1,225 [578]
	RCQD-3621A* (RGPR-05?BMK?)	36,800 [10.8]	27,950 [8.2]	8,850 [2.6]	12.15	14.00	73	1,200 [566]
	RCQD-3621A* (RGPR-07?AMK?)	37,200 [10.9]	28,300 [8.3]	8,900 [2.6]	12.65	14.50	73	1,200 [566]
	RCQD-3621A* (RGPR-07?BRQ?)	37,600 [11.0]	28,600 [8.4]	9,000 [2.6]	13.15	15.50	73	1,200 [566]
	RCQD-3621A* (RGPR-10?BRM?)	37,400 [11.0]	28,450 [8.3]	8,950 [2.6]	12.95	15.00	73	1,225 [578]
	RCQD-3624A*	36,600 [10.7]	27,850 [8.2]	8,750 [2.6]	11.95	14.00	73	1,200 [566]
	RCQD-3624A* (RGFD-09?ZCM?)	37,200 [10.9]	28,000 [8.2]	9,200 [2.7]	12.90	15.00	73	1,150 [543]
	RCQD-3624A* (RGFD-10?ZCM?)	37,400 [11.0]	28,450 [8.3]	8,950 [2.6]	12.85	15.00	73	1,175 [554]
	RCQD-3624A* (RGFD-12?RCM?)	37,400 [11.0]	28,450 [8.3]	8,950 [2.6]	12.95	15.00	73	1,225 [578]
	RCQD-3624A* (RGJD-09?ZCM?)	37,400 [11.0]	28,450 [8.3]	8,950 [2.6]	13.00	15.00	73	1,175 [554]
	RCQD-3624A* (RGJD-10?ZCM?)	37,400 [11.0]	28,450 [8.3]	8,950 [2.6]	13.00	15.00	73	1,175 [554]
	RCQD-3624A* (RGJD-12?RCM?)	37,400 [11.0]	28,450 [8.3]	8,950 [2.6]	13.10	15.50	73	1,225 [578]
	RCQD-3624A* (RGPL-07?BRQ?)	37,600 [11.0]	28,600 [8.4]	9,000 [2.6]	13.15	15.50	73	1,200 [566]
	RCQD-3624A* (RGPL-10?BRM?)	37,400 [11.0]	28,450 [8.3]	8,950 [2.6]	12.95	15.00	73	1,225 [578]
	RCQD-3624A* (RGPL-12?ARM?)	37,800 [11.1]	29,100 [8.5]	8,700 [2.5]	13.15	15.50	73	1,250 [590]
	17AHSL36AU (RCSL-A*3617A*)	34,600 [10.1]	25,000 [7.3]	9,600 [2.8]	12.15	14.00	73	950 [448]
	17AHL36HM (RCSL-H*3617A*)	35,200 [10.3]	25,500 [7.5]	9,700 [2.8]	12.95	15.00	73	1,000 [472]
	17AHSL36HM (RCSL-H*3617A*)	34,600 [10.1]	25,000 [7.3]	9,600 [2.8]	12.15	14.00	73	950 [448]
	RHKL-HM3617 (RCSL-H*3617A*)	35,400 [10.4]	25,550 [7.5]	9,850 [2.9]	12.90	15.00	73	1,025 [484]
	RHLL-HM3617 (RCSL-H*3617A*)	35,200 [10.3]	25,500 [7.5]	9,700 [2.8]	12.95	15.00	73	1,000 [472]
	RHSL-HM3617 (RCSL-H*3617A*)	34,600 [10.1]	25,000 [7.3]	9,600 [2.8]	12.15	14.00	73	950 [448]
RHSL-HM3621 (RCSL-H*3621A*)	34,600 [10.1]	25,000 [7.3]	9,600 [2.8]	12.15	14.00	73	950 [448]	
042JAZ	RCFL-H*4821A*+RXMD-C04 ①	42,000 [12.3]	29,800 [8.7]	12,200 [3.6]	12.05	14.00	76	1,300 [613]
	RCFL-A*4821B* (RGLR-10?BRM?)	43,000 [12.6]	30,500 [8.9]	12,500 [3.7]	12.80	14.50	76	1,375 [649]
	RCFL-A*4821B* (RGPR-10?BRM?)	42,500 [12.5]	30,000 [8.8]	12,500 [3.7]	12.85	14.50	76	1,225 [578]
	RCFL-A*4821B*+RXMD-C04	42,000 [12.3]	29,800 [8.7]	12,200 [3.6]	12.05	14.00	76	1,300 [613]
	RCFL-A*4824B* (RGFD-12?RCM?)	42,500 [12.5]	30,000 [8.8]	12,500 [3.7]	12.80	14.50	76	1,225 [578]
	RCFL-A*4824B* (RGGD-12?RCM?)	42,500 [12.5]	30,050 [8.8]	12,450 [3.6]	12.90	15.00	76	1,225 [578]
	RCFL-A*4824B* (RGLR-10?BRM?)	43,000 [12.6]	30,500 [8.9]	12,500 [3.7]	12.80	14.50	76	1,375 [649]
	RCFL-A*4824B* (RGLR-12?ARM?)	42,500 [12.5]	30,100 [8.8]	12,400 [3.6]	13.05	15.00	76	1,225 [578]
	RCFL-A*4824B* (RGPR-10?BRM?)	42,500 [12.5]	30,000 [8.8]	12,500 [3.7]	12.85	14.50	76	1,225 [578]
	RCFL-A*4824B* (RGPR-12?ARM?)	42,500 [12.5]	30,150 [8.8]	12,350 [3.6]	12.95	15.00	76	1,250 [590]
	RCFL-H*4821A* (RGLR-10?BRM?)	43,000 [12.6]	30,500 [8.9]	12,500 [3.7]	12.80	14.50	76	1,375 [649]
	RCFL-H*4821A* (RGPR-10?BRM?)	42,500 [12.5]	30,000 [8.8]	12,500 [3.7]	12.85	14.50	76	1,225 [578]
	RCFL-H*4824A* (RGFD-12?RCM?)	42,500 [12.5]	30,000 [8.8]	12,500 [3.7]	12.80	14.50	76	1,225 [578]
	RCFL-H*4824A* (RGGD-12?RCM?)	42,500 [12.5]	30,050 [8.8]	12,450 [3.6]	12.90	15.00	76	1,225 [578]
	RCFL-H*4824A* (RGJD-12?RCM?)	42,500 [12.5]	30,050 [8.8]	12,450 [3.6]	12.95	15.00	76	1,225 [578]
	RCFL-H*4824A* (RGLR-10?BRM?)	43,000 [12.6]	30,500 [8.9]	12,500 [3.7]	12.80	14.50	76	1,375 [649]
	RCFL-H*4824A* (RGLR-12?ARM?)	42,500 [12.5]	30,100 [8.8]	12,400 [3.6]	13.05	15.00	76	1,225 [578]
	RCFL-H*4824A* (RGPR-10?BRM?)	42,500 [12.5]	30,000 [8.8]	12,500 [3.7]	12.85	14.50	76	1,225 [578]
	RCFL-H*4824A* (RGPR-12?ARM?)	42,500 [12.5]	30,150 [8.8]	12,350 [3.6]	12.95	15.00	76	1,250 [590]
	RCFL-H*4824A*+RXMD-C04	42,000 [12.3]	29,800 [8.7]	12,200 [3.6]	12.05	14.00	76	1,300 [613]
	RCHL-48A1	42,000 [12.3]	29,800 [8.7]	12,200 [3.6]	12.05	13.00	76	1,300 [613]
	24AHL48HM (RCHL-48A1)	40,500 [11.9]	28,000 [8.2]	12,500 [3.7]	12.40	14.50	76	1,400 [661]
	RBHK-24 (RCHL-48A1)	40,500 [11.9]	28,000 [8.2]	12,500 [3.7]	12.30	14.50	76	1,400 [661]
	RBHP-24 (RCHL-48A1)	40,500 [11.9]	28,000 [8.2]	12,500 [3.7]	12.40	14.50	76	1,400 [661]
	RCHL-48A1 (RGFD-10?ZCM?)	39,500 [11.6]	28,000 [8.2]	11,500 [3.4]	11.70	13.50	76	1,325 [625]

① Highest sales volume tested combination required by D.O.E. test procedures.

[] Designates Metric Conversions

Performance Data @ ARI Standard Conditions—Cooling: RAPL- (continued)

Outdoor Unit RAPL-	Model Numbers Indoor Coil and/or Air Handler	80°F [26.5°C] DB/67°F [19.5°C] WB Indoor Air 95°F [35°C] DB Outdoor Air					Sound Rating dB	Indoor CFM [L/s]
		Total Capacity BTU/H [kW]	Net Sensible BTU/H [kW]	Net Latent BTU/H [kW]	EER	SEER		
042JAZ	RCHL-48A1 (RGFD-12?RCM?)	39,500 [11.6]	27,850 [8.2]	11,650 [3.4]	11.55	13.50	76	1,325 [625]
	RCHL-48A1 (RGGD-09?ZCM?)	40,000 [11.7]	28,150 [8.2]	11,850 [3.5]	12.05	13.50	76	1,400 [661]
	RCHL-48A1 (RGGD-10?ZCM?)	40,000 [11.7]	27,850 [8.2]	12,150 [3.6]	11.65	13.50	76	1,425 [672]
	RCHL-48A1 (RGGD-12?RCM?)	40,000 [11.7]	27,900 [8.2]	12,100 [3.5]	11.70	14.00	76	1,425 [672]
	RCHL-48A1 (RGJD-10?ZCM?)	40,000 [11.7]	27,850 [8.2]	12,150 [3.6]	11.65	13.50	76	1,425 [672]
	RCHL-48A1 (RGJD-12?RCM?)	40,000 [11.7]	27,900 [8.2]	12,100 [3.5]	11.70	14.00	76	1,425 [672]
	RCHL-48A1 (RGLR-10?BRM?)	40,500 [11.9]	28,000 [8.2]	12,500 [3.7]	11.95	14.00	76	1,450 [684]
	RCHL-48A1 (RGLR-12?ARM?)	40,000 [11.7]	28,200 [8.3]	11,800 [3.5]	12.10	14.00	76	1,375 [649]
	RCHL-48A1 (RGPR-07?BRQ?)	40,000 [11.7]	28,150 [8.2]	11,850 [3.5]	12.05	14.00	76	1,400 [661]
	RCHL-48A1 (RGPR-12?ARM?)	40,000 [11.7]	27,950 [8.2]	12,050 [3.5]	11.80	14.00	76	1,425 [672]
	RCQD-4821A*	42,500 [12.5]	30,850 [9.0]	11,650 [3.4]	12.40	14.50	76	1,400 [661]
	RCQD-4821A* (RGPL-07?BRQ?)	43,000 [12.6]	31,300 [9.2]	11,700 [3.4]	13.10	15.00	76	1,400 [661]
	RCQD-4821A* (RGPR-07?BRQ?)	43,000 [12.6]	31,300 [9.2]	11,700 [3.4]	13.10	15.00	76	1,400 [661]
	RCQD-4824A*	42,500 [12.5]	30,850 [9.0]	11,650 [3.4]	12.40	14.50	76	1,400 [661]
	RCQD-4824A* (RGJD-12?RCM?)	43,000 [12.6]	31,600 [9.3]	11,400 [3.3]	12.95	15.00	76	1,450 [684]
	RCQD-4824A* (RGPL-07?BRQ?)	43,000 [12.6]	31,300 [9.2]	11,700 [3.4]	13.10	15.00	76	1,400 [661]
	RCQD-4824A* (RGPL-12?ARM?)	43,000 [12.6]	31,300 [9.2]	11,700 [3.4]	13.10	15.00	76	1,400 [661]
	RCQD-4824A* (RGPR-07?BRQ?)	43,000 [12.6]	31,300 [9.2]	11,700 [3.4]	13.10	15.00	76	1,400 [661]
	RCQD-4824A* (RGPR-12?ARM?)	43,000 [12.6]	31,300 [9.2]	11,700 [3.4]	13.10	15.00	76	1,400 [661]
	21AHS42AU (RCSL-A*4821A*)	42,500 [12.5]	30,000 [8.8]	12,500 [3.7]	12.00	13.00	76	1,350 [637]
	21AHL48HM (RCSL-H*4821A*)	43,500 [12.7]	30,750 [9.0]	12,750 [3.7]	13.05	15.00	76	1,400 [661]
	21AHS42HM (RCSL-H*4821A*)	42,500 [12.5]	30,000 [8.8]	12,500 [3.7]	12.00	13.00	76	1,350 [637]
	RHKL-HM4821 (RCSL-H*4821A*)	43,500 [12.7]	30,700 [9.0]	12,800 [3.8]	13.00	15.00	76	1,400 [661]
	RHLL-HM4821 (RCSL-H*4821A*)	43,500 [12.7]	30,750 [9.0]	12,750 [3.7]	13.05	15.00	76	1,400 [661]
RHSL-HM4221 (RCSL-H*4821A*)	42,500 [12.5]	30,000 [8.8]	12,500 [3.7]	12.00	13.00	76	1,350 [637]	
048JAZ	RCFL-H*4821A* ①	48,500 [14.2]	34,300 [10.0]	14,200 [4.2]	12.00	14.00	76	1,475 [696]
	RCFL-A*4821B*	48,500 [14.2]	34,300 [10.0]	14,200 [4.2]	12.00	14.00	76	1,475 [696]
	RCFL-A*4821B* (RGLR-10?BRM?)	49,000 [14.4]	34,750 [10.2]	14,250 [4.2]	12.15	14.50	76	1,575 [743]
	RCFL-A*4821B* (RGPR-07?BRQ?)	48,500 [14.2]	34,300 [10.0]	14,200 [4.2]	12.45	14.50	76	1,400 [661]
	RCFL-A*4821B* (RGPR-10?BRM?)	48,500 [14.2]	34,300 [10.0]	14,200 [4.2]	12.25	14.50	76	1,425 [672]
	RCFL-A*4824B*	48,500 [14.2]	34,300 [10.0]	14,200 [4.2]	12.00	14.00	76	1,475 [696]
	RCFL-A*4824B* (RGGD-12?RCM?)	49,000 [14.4]	34,550 [10.1]	14,450 [4.2]	12.40	14.50	76	1,450 [684]
	RCFL-A*4824B* (RGLR-12?ARM?)	48,500 [14.2]	34,400 [10.1]	14,100 [4.1]	12.50	14.50	76	1,425 [672]
	RCFL-A*4824B* (RGPR-07?BRQ?)	48,500 [14.2]	34,300 [10.0]	14,200 [4.2]	12.45	14.50	76	1,400 [661]
	RCFL-A*4824B* (RGPR-10?BRM?)	48,500 [14.2]	34,250 [10.0]	14,250 [4.2]	12.25	14.50	76	1,425 [672]
	RCFL-A*4824B* (RGPR-12?ARM?)	49,000 [14.4]	34,750 [10.2]	14,250 [4.2]	12.20	14.50	76	1,575 [743]
	RCFL-H*4821A* (RGLR-10?BRM?)	49,000 [14.4]	34,750 [10.2]	14,250 [4.2]	12.15	14.50	76	1,575 [743]
	RCFL-H*4821A* (RGPR-07?BRQ?)	48,500 [14.2]	34,300 [10.0]	14,200 [4.2]	12.45	14.50	76	1,400 [661]
	RCFL-H*4821A* (RGPR-10?BRM?)	48,500 [14.2]	34,300 [10.0]	14,200 [4.2]	12.25	14.50	76	1,425 [672]
	RCFL-H*4824A*	48,500 [14.2]	34,300 [10.0]	14,200 [4.2]	12.00	14.00	76	1,475 [696]
	RCFL-H*4824A* (RGGD-12?RCM?)	49,000 [14.4]	34,550 [10.1]	14,450 [4.2]	12.40	14.50	76	1,450 [684]
	RCFL-H*4824A* (RGJD-12?RCM?)	49,000 [14.4]	34,550 [10.1]	14,450 [4.2]	12.40	14.50	76	1,450 [684]
	RCFL-H*4824A* (RGLR-12?ARM?)	48,500 [14.2]	34,400 [10.1]	14,100 [4.1]	12.50	14.50	76	1,425 [672]
	RCFL-H*4824A* (RGPR-07?BRQ?)	48,500 [14.2]	34,300 [10.0]	14,200 [4.2]	12.45	14.50	76	1,400 [661]
	RCFL-H*4824A* (RGPR-10?BRM?)	48,500 [14.2]	34,250 [10.0]	14,250 [4.2]	12.25	14.50	76	1,425 [672]
	RCFL-H*4824A* (RGPR-12?ARM?)	49,000 [14.4]	34,750 [10.2]	14,250 [4.2]	12.20	14.50	76	1,575 [743]
	RCHL-48A1	45,500 [13.3]	31,350 [9.2]	14,150 [4.1]	10.85	13.00	76	1,600 [755]
	24AHL48HM (RCHL-48A1)	46,000 [13.5]	31,700 [9.3]	14,300 [4.2]	11.60	14.00	76	1,600 [755]
	RBHK-24 (RCHL-48A1)	46,500 [13.6]	32,150 [9.4]	14,350 [4.2]	11.65	14.00	76	1,600 [755]
	RBHP-24 (RCHL-48A1)	46,000 [13.5]	31,700 [9.3]	14,300 [4.2]	11.60	14.00	76	1,600 [755]
	RCHL-48A1 (RGFD-12?RCM?)	46,000 [13.5]	31,600 [9.3]	14,400 [4.2]	11.15	13.50	76	1,650 [779]
	RCHL-48A1 (RGGD-12?RCM?)	46,000 [13.5]	31,550 [9.2]	14,450 [4.2]	11.10	13.50	76	1,650 [779]
	RCHL-48A1 (RGJD-12?RCM?)	46,000 [13.5]	31,550 [9.2]	14,450 [4.2]	11.10	13.50	76	1,650 [779]
	RCHL-48A1 (RGLR-10?BRM?)	46,000 [13.5]	31,850 [9.3]	14,150 [4.1]	11.35	13.50	76	1,575 [743]
	RCHL-48A1 (RGLR-12?ARM?)	46,000 [13.5]	31,900 [9.3]	14,100 [4.1]	11.40	13.50	76	1,600 [755]
	RCHL-48A1 (RGPR-07?BRQ?)	46,000 [13.5]	31,800 [9.3]	14,200 [4.2]	11.30	13.00	76	1,625 [767]

① Highest sales volume tested combination required by D.O.E. test procedures.

[] Designates Metric Conversions

Performance Data @ ARI Standard Conditions—Cooling: RAPL- (continued)

Outdoor Unit RAPL-	Model Numbers Indoor Coil and/or Air Handler	80°F [26.5°C] DB/67°F [19.5°C] WB Indoor Air 95°F [35°C] DB Outdoor Air					Sound Rating dB	Indoor CFM [L/s]
		Total Capacity BTU/H [kW]	Net Sensible BTU/H [kW]	Net Latent BTU/H [kW]	EER	SEER		
048JAZ	RCHL-48A1 (RGPR-10?BRM?)	45,500 [13.3]	31,600 [9.3]	13,900 [4.1]	11.10	13.50	76	1,625 [767]
	RCHL-48A1 (RGPR-12?ARM?)	46,000 [13.5]	31,900 [9.3]	14,100 [4.1]	11.40	13.50	76	1,575 [743]
	RCHL-48A2	45,500 [13.3]	31,350 [9.2]	14,150 [4.1]	10.85	13.00	76	1,600 [755]
	24AHBL48HM (RCHL-48A2)	47,000 [13.8]	32,500 [9.5]	14,500 [4.2]	11.80	14.00	76	1,700 [802]
	RBHK-24 (RCHL-48A2)	46,000 [13.5]	31,700 [9.3]	14,300 [4.2]	11.50	14.00	76	1,600 [755]
	RCHL-48A2 (RGFD-12?RCM?)	46,000 [13.5]	31,600 [9.3]	14,400 [4.2]	11.15	13.50	76	1,650 [779]
	RCHL-48A2 (RGGD-12?RCM?)	46,000 [13.5]	31,550 [9.2]	14,450 [4.2]	11.10	13.50	76	1,650 [779]
	RCHL-48A2 (RGJD-12?RCM?)	46,000 [13.5]	31,550 [9.2]	14,450 [4.2]	11.10	13.50	76	1,650 [779]
	RCHL-48A2 (RGLR-10?BRM?)	46,000 [13.5]	31,850 [9.3]	14,150 [4.1]	11.35	13.50	76	1,575 [743]
	RCHL-48A2 (RGLR-12?ARM?)	46,000 [13.5]	31,900 [9.3]	14,100 [4.1]	11.40	13.50	76	1,600 [755]
	RCHL-48A2 (RGPR-10?BRM?)	45,500 [13.3]	31,600 [9.3]	13,900 [4.1]	11.10	13.50	76	1,625 [767]
	RCHL-48A2 (RGPR-12?ARM?)	46,000 [13.5]	31,900 [9.3]	14,100 [4.1]	11.40	13.50	76	1,575 [743]
	RCQD-4821A*	47,000 [13.8]	34,350 [10.1]	12,650 [3.7]	11.15	13.50	76	1,600 [755]
	RCQD-4821A* (RGPL-07?BRQ?)	47,000 [13.8]	34,300 [10.0]	12,700 [3.7]	11.40	14.00	76	1,625 [767]
	RCQD-4821A* (RGPR-07?BRQ?)	47,000 [13.8]	34,300 [10.0]	12,700 [3.7]	11.40	14.00	76	1,625 [767]
	RCQD-4824A*	47,000 [13.8]	34,350 [10.1]	12,650 [3.7]	11.15	13.50	76	1,600 [755]
	RCQD-4824A* (RGPL-07?BRQ?)	47,000 [13.8]	34,300 [10.0]	12,700 [3.7]	11.40	14.00	76	1,625 [767]
	RCQD-4824A* (RGPL-12?ARM?)	47,500 [13.9]	34,750 [10.2]	12,750 [3.7]	11.50	14.00	76	1,575 [743]
	RCQD-4824A* (RGPR-07?BRQ?)	47,000 [13.8]	34,300 [10.0]	12,700 [3.7]	11.40	14.00	76	1,625 [767]
	RCQD-4824A* (RGPR-12?ARM?)	47,500 [13.9]	34,750 [10.2]	12,750 [3.7]	11.50	14.00	76	1,575 [743]
	21AHLL48HM (RCSL-H*4821A*)	49,000 [14.4]	34,500 [10.1]	14,500 [4.2]	12.75	15.00	76	1,400 [661]
	21AHSL48HM (RCSL-H*4821A*)	48,500 [14.2]	34,450 [10.1]	14,050 [4.1]	11.95	14.00	76	1,525 [720]
	24AHSL48HM (RCSL-H*4821A*)	48,500 [14.2]	34,450 [10.1]	14,050 [4.1]	11.95	14.00	76	1,525 [720]
	RHKL-HM4821 (RCSL-H*4821A*)	49,500 [14.5]	34,900 [10.2]	14,600 [4.3]	12.45	15.00	76	1,575 [743]
	RHLL-HM4821 (RCSL-H*4821A*)	49,000 [14.4]	34,500 [10.1]	14,500 [4.2]	12.75	15.00	76	1,400 [661]
	RHSL-HM4821 (RCSL-H*4821A*)	48,500 [14.2]	34,450 [10.1]	14,050 [4.1]	11.95	14.00	76	1,525 [720]
	24AHLL48HM (RCSL-H*4824A*)	49,000 [14.4]	34,500 [10.1]	14,500 [4.2]	12.75	15.00	76	1,400 [661]
	RHKL-HM4824 (RCSL-H*4824A*)	49,500 [14.5]	34,900 [10.2]	14,600 [4.3]	12.45	15.00	76	1,575 [743]
RHLL-HM4824 (RCSL-H*4824A*)	49,000 [14.4]	34,500 [10.1]	14,500 [4.2]	12.75	15.00	76	1,400 [661]	
RHSL-HM4824 (RCSL-H*4824A*)	48,500 [14.2]	34,450 [10.1]	14,050 [4.1]	11.95	14.00	76	1,525 [720]	
060JAZ	RCFL-H*6024A*+RXMD-C04 ①	58,500 [17.1]	41,500 [12.2]	17,000 [5.0]	11.70	14.00	76	1,750 [826]
	RCFL-A*6024B*+RXMD-C04	58,500 [17.1]	41,500 [12.2]	17,000 [5.0]	11.70	14.00	76	1,750 [826]
	25AHBL60HM (RCHL-60A1)	54,500 [16.0]	35,600 [10.4]	18,900 [5.5]	11.50	13.00	76	1,800 [849]
	RBHK-25 (RCHL-60A1)	55,000 [16.1]	35,900 [10.5]	19,100 [5.6]	11.85	13.50	76	1,800 [849]
	RBHP-25 (RCHL-60A1)	54,500 [16.0]	35,600 [10.4]	18,900 [5.5]	11.50	13.00	76	1,800 [849]
	RCQD-6024A*	56,500 [16.6]	39,700 [11.6]	16,800 [4.9]	11.35	13.50	76	1,800 [849]
	24AHLL60HM (RCSL-H*6024A*)	59,500 [17.4]	42,100 [12.3]	17,400 [5.1]	12.45	14.50	76	1,800 [849]
	RHKL-HM6024 (RCSL-H*6024A*)	59,500 [17.4]	42,100 [12.3]	17,400 [5.1]	12.40	14.50	76	1,800 [849]
	RHLL-HM6024 (RCSL-H*6024A*)	59,500 [17.4]	42,100 [12.3]	17,400 [5.1]	12.45	14.50	76	1,800 [849]
	RHSL-HM6024 (RCSL-H*6024A*)	58,500 [17.1]	41,400 [12.1]	17,100 [5.0]	11.50	13.00	76	1,800 [849]

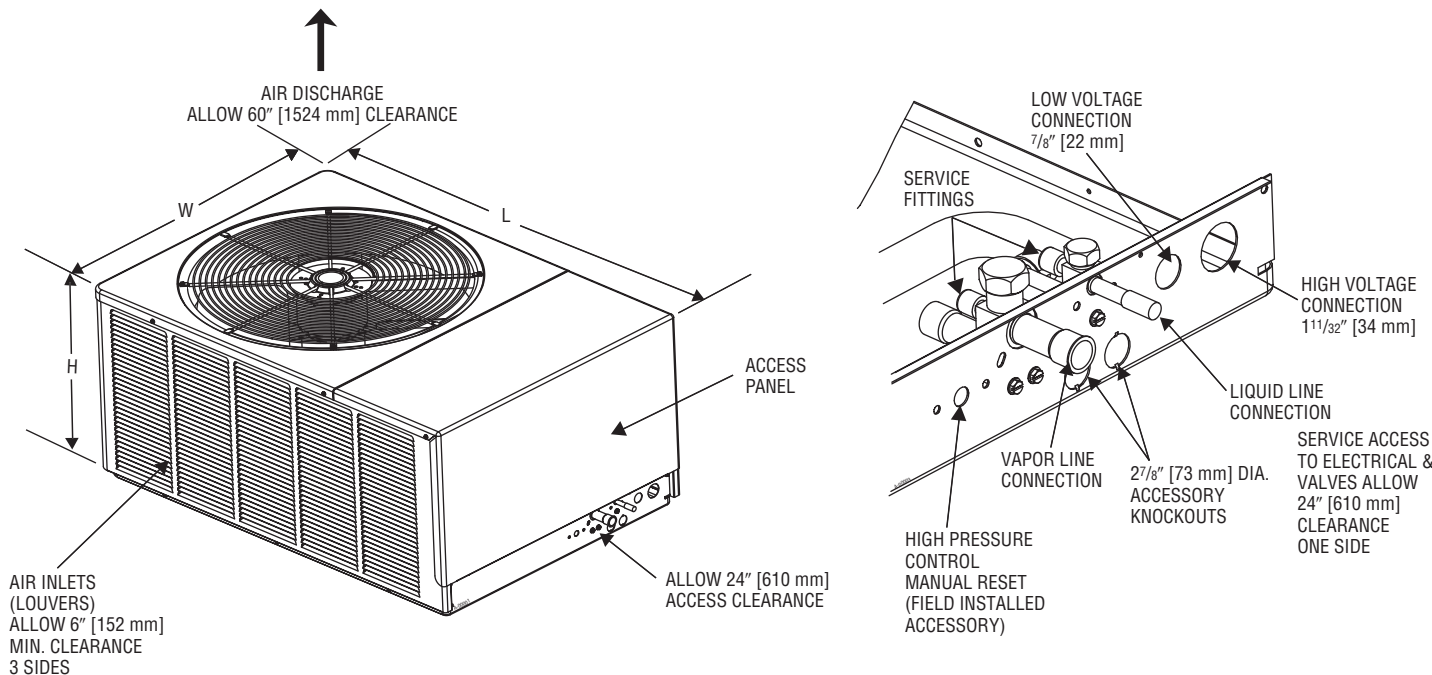
① Highest sales volume tested combination required by D.O.E. test procedures.

[] Designates Metric Conversions

Electrical and Physical Data: RAPL-

Model No. RAPL-	ELECTRICAL							PHYSICAL					
	Phase Hertz Volts	Compr. RLA	Compr. LRA	Fan Motor FLA	Min. Circuit Ampacity Amps	Fuse or HACR Circuit Breaker		Outdoor Coil			Refrig. Per Circuit Oz. [g]	Weight	
						Min. Amps	Max. Amps	Face Area Sq. Ft. [m ²]	No. Rows	CFM [L/s]		Net Lbs. [kg]	Shipping Lbs. [kg]
018JAZ	1-60-208/230	9/9	48	0.8	13/13	15/15	20/20	11.00 [1.02]	1	1900 [897]	79 [2240]	140 [63.5]	155 [70.3]
024JAZ	1-60-208/230	13.5/13.5	58.3	0.8	18/18	25/25	30/30	11.00 [1.02]	1	2300 [1085]	105 [2977]	140 [63.5]	187 [84.8]
030JAZ	1-60-208/230	12.8/12.8	64	1.2	18/18	25/25	30/30	20.00 [1.86]	1	3200 [1510]	135 [3827]	200 [90.7]	213 [96.6]
036JAZ	1-60-208/230	16.7/16.7	79	1.2	23/23	30/30	35/35	23.01 [2.14]	1	3200 [1510]	141 [3997]	230 [104.3]	228 [103.4]
042JAZ	1-60-208/230	17.9/17.9	112	1.2	24/24	30/30	40/40	23.01 [2.14]	1	3200 [1510]	152 [4309]	230 [104.3]	252 [114.3]
048JAZ	1-60-208/230	21.8/21.8	117	1.2	29/29	35/35	50/50	23.01 [2.14]	1	3300 [1557]	152 [4309]	230 [104.3]	253 [114.8]
060JAZ	1-60-208/230	26.4/26.4	134	1.2	35/35	45/45	60/60	44.00 [4.09]	2	3100 [1463]	286 [8108]	280 [127]	305 [138.3]

Unit Dimensions



Model Number RAPL-	Height "H" (Inches) [mm]	Length "L" (Inches) [mm]	Width "W" (Inches) [mm]
018/024	19 [483]	40 1/2 [1029]	27 5/8 [702]
030	29 [737]	44 3/8 [1127]	31 1/2 [800]
036/042/ 048/060	33 [838]	44 3/8 [1127]	31 1/2 [800]

[] Designates Metric Conversions

BEFORE PURCHASING THIS APPLIANCE, READ IMPORTANT ENERGY COST AND EFFICIENCY INFORMATION AVAILABLE FROM YOUR RETAILER.

GENERAL TERMS OF LIMITED WARRANTY

Rheem will furnish a replacement for any part of this product which fails in normal use and service within the applicable period stated, in accordance with the terms of the limited warranty.

For Complete Details of the Limited Warranty, Including Applicable Terms and Conditions, See Your Local Installer or Contact the Manufacturer for a Copy.

Condenser Coil leaks caused by factory defectsFive (5) Years
 Compressor—
 JAZTen (10) Years
 *All Other Parts
 JAZFive (5) Years

*This five year limited warranty is applicable only to single-phase products installed in residential applications on or after January 1, 2001.

Condensing Unit Refrigerant Line Size Information

Liquid Line Sizing (R-410A)														
System Capacity	Line Size Connection (Inch I.D.)	Line Size (Inch O.D.) [mm]	Liquid Line Size – Outdoor Unit Above Indoor Coil (Cooling Only – Does not apply to Heat Pumps)						Liquid Line Size – Outdoor Unit Below Indoor Coil					
			Total Equivalent Length—Feet [m]						Total Equivalent Length—Feet [m]					
			25 [7.62]	50 [15.24]	75 [22.86]	100 [30.48]	125 [38.10]	150 [45.72]	25 [7.62]	50 [15.24]	75 [22.86]	100 [30.48]	125 [38.10]	150 [45.72]
			Minimum Vertical Separation—Feet [m]						Maximum Vertical Separation—Feet [m]					
1 1/2 Ton	3/8"	1/4 [6.35]	0	0	0	0	8 [2.44]	24 [7.32]	25 [7.62]	40 [12.19]	25 [7.62]	9 [2.74]	N/A	N/A
		5/16 [7.94]	0	0	0	0	0	0	25 [7.62]	50 [15.24]	62 [18.90]	58 [17.68]	53 [16.15]	49 [14.94]
		3/8* [9.53]	0	0	0	0	0	0	25 [7.62]	50 [15.24]	75 [22.86]	72 [21.95]	70 [21.34]	68 [20.73]
2 Ton	3/8"	1/4 [6.35]	0	3 [0.91]	29 [8.84]	55 [16.76]	81 [24.69]	108 [32.92]	23 [7.01]	N/A	N/A	N/A	N/A	N/A
		5/16 [7.94]	0	0	0	0	0	0	25 [7.62]	36 [10.97]	29 [8.84]	23 [7.01]	16 [4.88]	9 [2.74]
		3/8* [9.53]	0	0	0	0	0	0	25 [7.62]	50 [15.24]	72 [21.95]	70 [21.34]	68 [20.73]	65 [19.81]
2 1/2 Ton	3/8"	1/4 [6.35]	0	14 [4.27]	56 [17.07]	98 [29.87]	N/A	N/A	25 [7.62]	N/A	N/A	N/A	N/A	N/A
		5/16 [7.94]	0	0	0	0	0	0	25 [7.62]	49 [14.94]	38 [11.58]	27 [8.23]	17 [5.18]	6 [1.83]
		3/8* [9.53]	0	0	0	0	0	0	25 [7.62]	50 [15.24]	68 [20.73]	65 [19.81]	62 [18.90]	58 [17.68]
3 Ton	3/8"	5/16 [7.94]	0	0	0	0	0	9 [2.74]	25 [7.62]	50 [15.24]	37 [11.28]	22 [6.71]	7 [2.13]	N/A
		3/8* [9.53]	0	0	0	0	0	0	25 [7.62]	50 [15.24]	68 [20.73]	63 [19.20]	58 [17.68]	53 [16.15]
3 1/2 Ton	3/8"	5/16 [7.94]	0	0	0	16 [4.88]	35 [10.67]	54 [16.46]	25 [7.62]	23 [7.01]	4 [1.22]	N/A	N/A	N/A
		3/8* [9.53]	0	0	0	0	0	0	25 [7.62]	50 [15.24]	43 [13.11]	36 [10.97]	30 [9.14]	24 [7.32]
4 Ton	3/8"	3/8* [9.53]	0	0	0	0	0	0	25 [7.62]	46 [14.02]	38 [11.58]	30 [9.14]	22 [6.71]	15 [4.57]
		1/2 [12.57]	0	0	0	0	0	0	25 [7.62]	50 [15.24]	56 [17.07]	55 [16.76]	53 [16.15]	52 [15.85]
5 Ton	3/8"	3/8* [9.53]	0	0	0	0	0	0	25 [7.62]	50 [15.24]	56 [17.07]	44 [13.41]	32 [9.75]	20 [6.10]
		1/2 [12.57]	0	0	0	0	0	0	25 [7.62]	50 [15.24]	75 [22.86]	81 [24.69]	79 [24.08]	76 [23.16]

NOTES: *Standard line size
N/A = Application not recommended.

Suction Line Length/Size versus Capacity Multiplier (R-410A)									
Unit Size	1 1/2 Ton	2 Ton	2 1/2 Ton		3 Ton	3 1/2 Ton	4 Ton	5 Ton	
Suction Line Connection Size	3/4" [19.05 mm] I.D.				7/8" [22.23 mm] I.D.				
Suction Line Run—Feet [m]	5/8" [15.88 mm] O.D. Opt. 3/4" [19.05 mm] O.D. Std.*	5/8" [15.88 mm] O.D. Opt. 3/4" [19.05 mm] O.D. Std.* 7/8" [22.23 mm] O.D. Opt.		3/4" [19.05 mm] O.D. Opt. 7/8" [22.23 mm] O.D. Std.*		7/8" [22.23 mm] O.D. Opt. 1 1/8" [28.58 mm] O.D. Std.*			
25' [7.62]	Optional	1.00	1.00	1.00		1.00	1.00	1.00	1.00
	Standard	1.00	1.00	1.00		1.00	1.00	1.00	1.00
	Optional	N/A	N/A	1.00		N/A	N/A	N/A	N/A
50' [15.24]	Optional	.98	.98	.96		.98	.99	.99	.99
	Standard	.99	.99	.98		.99	.99	.99	.99
	Optional	N/A	N/A	.99		N/A	N/A	N/A	N/A
100' [30.48]	Optional	.95	.95	.94		.96	.96	.96	.97
	Standard	.96	.96	.96		.97	.98	.98	.98
	Optional	N/A	N/A	.97		N/A	N/A	N/A	N/A
150' [45.72]	Optional	.92	.92	.91		.94	.94	.95	.94
	Standard	.93	.94	.93		.95	.96	.96	.97
	Optional	N/A	N/A	.95		N/A	N/A	N/A	N/A

NOTES: *Standard line size
Using suction line larger than shown in chart will result in poor oil return and is not recommended.

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Before proceeding with installation, refer to installation instructions packaged with each model, as well as complying with all Federal, State, Provincial, and Local codes, regulations, and practices.

**Rheem Heating,
Cooling and
Water Heating**

P.O. Box 17010, Fort Smith, AR 72917



"In keeping with its policy of continuous progress and product improvement, Rheem reserves the right to make changes without notice."