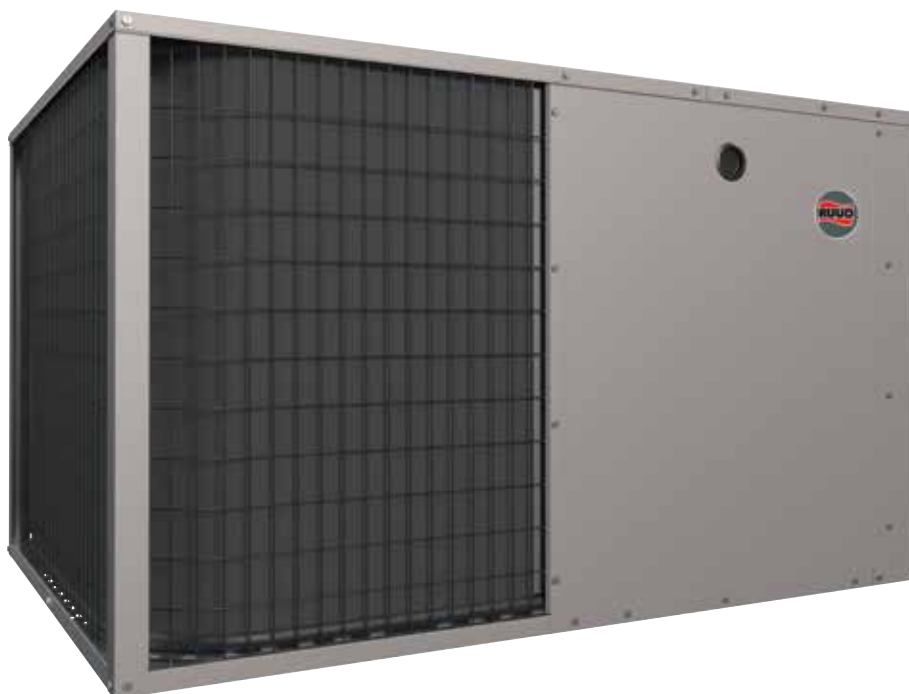


RELY ON



Endeavor® Line *Choice*® Series iR Residential Packaged Dedicated Horizontal Air Conditioners



RACSYB

Nominal Sizes: 2 to 5 Tons [7.0 to 17.6 kW]

Cooling Efficiency: 13.4 SEER2

Refrigerant Type: R-454B



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FEATURES & BENEFITS

- **Energy-efficient:** Eco-friendly R-454B Refrigerant offering reduced carbon footprint
- **Quality Compressor:** State of the art scroll compressor is standard on all models offering superior efficiency, and reliability
- **High Pressure Switches:** Ensure long compressor life
- **All-Aluminum Coils:** Evaporator and condenser coils are designed to optimize heat transfer, minimize footprint, and increase durability
- **ECM Blower Motor:** Fixed torque energy efficient brushless DC ECM motor, provides 5 speeds
- **Permanently Lubricated Condenser Motor:** A heavy duty PSC motor for long lasting reliability and quiet operation. Requires no maintenance and is completely protected from rain and snow
- **Low Voltage Transformer:** Includes 3 Amp fuse to protect low voltage circuit
- **Liquid Line Filter Drier:** Factory installed at a convenient location for service
- **Designed Using Galvanized Steel:** With a polyester urethane coat finish, the 950 hour salt spray finish is 1.5 mil thick and resists corrosion
- **Compact Footprint and Profile:** Make the RACSYB Series easy to install and transport
- **0" Clearance:** To combustibles on duct side of the unit allows for installations in tight areas
- **Wire Guard Coated with Eco-Friendly Epoxy and Plastic Mesh Hail Guard:** A guard that will never rust and protects the units coil from being damaged
- **Raised Base Pan:** Allows water to drain away from the unit
- **Easy Compressor and Control Access:** Designed to make servicing easier for the contractor, access panels are provided to all controls and the compressor from the front of the unit. High/low service ports allow refrigerant access without disrupting operation
- **Easy Access:** To the evaporator coil for cleaning, blower assembly removal and general maintenance
- **Drain Trap:** Design optimizes drainage capabilities
- **Removable Top Grille Assembly:** Allows ease of service to the fan motor
- **Easy to Field-Install:** 5-20kW heater kits
- **Notched Base Rail Supports:** Allow units to be set on roof curbs or metal stands

Air Conditioner

<u>R</u>	<u>AC</u>	<u>S</u>	<u>Y</u>	<u>B</u>	<u>024</u>	<u>A</u>	<u>J</u>	<u>T</u>	<u>00</u>	<u>0</u>	<u>N</u>	<u>A</u>
Brand	Product Category	Platform	Refrigerant	Tier	Capacity	Major Series	Voltage	Drive	Electric Heat	Electric Heat Configuration	Controls	Minor Series
R - Ruud®	AC - Straight Cool	S - Small	Y - R-454B	B - Base Tier (13.4 SEER2)	024 - 24,000 [7.03 kW] 030 - 30,000 [8.79 kW] 036 - 36,000 [10.55 kW] 042 - 42,000 [12.31 kW] 048 - 48,000 [14.07 kW] 060 - 60,000 [17.58 kW]	A - 1st Design	J - 1ph, 208/230/60	T - Constant Torque	00 - No Electric Heat	0 - No Electric Heat	N - Non-Communicating	A - 1st Design

[] Designates Metric Conversions

Available Models
RACSYB024AJT000NA
RACSYB030AJT000NA
RACSYB036AJT000NA
RACSYB042AJT000NA
RACSYB048AJT000NA
RACSYB060AJT000NA

GENERAL DATA 2–5 TON

Model RACSYB Series	024AJT	030AJT	036AJT
Cooling Performance¹			CONTINUED →
Nominal Cooling Capacity [kW]	23,600	28,600	34,400
EER2/SEER2 ²	10.6/13.4	10.6/13.4	10.6/13.4
Nominal CFM/AHRI Rated CFM [L/s]	865	1,050	1,200
AHRI Net Cooling Capacity Btu/h [kW]	23,600 [6,916]	28,600 [8,382]	34,400 [10,082]
Net Sensible Capacity Btu/h [kW]	17,100 [5,012]	20,400 [5,979]	25,000 [7,327]
Net Latent Capacity Btu/h [kW]	6,500 [1,905]	8,200 [2,403]	9,400 [2,755]
Net System Power [kW]	1.98	2.43	3.03
Compressor			
No./Stage/Type	1/1/Scroll	1/1/Scroll	1/1/Scroll
Outdoor Sound Rating (dB)³	75	77	76
Outdoor Coil—Fin Type	MicroChannel	MicroChannel	MicroChannel
Rifled: Tube Size OD or MicroChannel: Depth in. [mm]	MC: 0.630 [16]	MC: 0.630 [16]	MC: 0.630 [16]
Face Area sq. ft. [sq. m]	9,625 [0.894]	9,625 [0.894]	9,625 [0.894]
Rows / FPI [FPcm]	23	23	23
Indoor Coil—Fin Type	MicroChannel	MicroChannel	MicroChannel
Rifled: Tube Size OD or MicroChannel: Depth in. [mm]	MC: 0.811 [20.6]	MC: 0.811 [20.6]	MC: 1,000 [25.4]
Face Area sq. ft. [sq. m]	3,563 [0.331]	3,563 [0.331]	3,563 [0.331]
Rows / FPI [FPcm]	20	20	20
Outdoor Fan—Type			
No. Used/Diameter in. [mm]	1 / 20 [508]	1 / 20 [508]	1 / 20 [508]
CFM [L/s]	2,974	2,584	2,974
Motors/HP	1/5	1/8	1/8
Motor RPM	863	1,100	1,100
Indoor Fan—Type			
No. Used/Diameter in. [mm]	1 / 10 [254]	1 / 10 [254]	1 / 10 [254]
Motor HP	1/2	1/2	1/2
Motor RPM	1,050 Variable	1,050 Variable	1,050 Variable
Refrigerant Charge Oz. [g]	37	38.4	34
Weights			
Net Weight lbs. [kg]	200 [91]	225 [102]	231 [105]
Ship Weight lbs. [kg]	212 [96]	237 [107]	243 [110]

[] Designates Metric Conversions

NOTES:

- Cooling Performance is rated at 95°F ambient, 80°F entering dry bulb, 67°F entering wet bulb. Gross capacity does not include the effect of fan motor heat. AHRI capacity is net and includes the effect of fan motor heat. Units are suitable for operation to ±20% of nominal CFM. Units are certified in accordance with the Unitary Air Conditioner Equipment certification program, which is based on AHRI Standard 210/240.
- EER2 and/or SEER2 are rated at AHRI conditions and in accordance with DOE test procedures.
- Outdoor Sound Rating shown is tested in accordance with AHRI Standard 270.

GENERAL DATA 2-5 TON (CONTINUED)

Model RACSYB Series	042AJT	048AJT	060AJT
Cooling Performance¹			
Nominal Cooling Capacity [kW]	40,000	46,000	56,500
EER2/SEER2 ²	10.6/13.4	10.6/13.4	10.6/13.4
Nominal CFM/AHRI Rated CFM [L/s]	1,580	1,680	1,750
AHRI Net Cooling Capacity Btu/h [kW]	40,000 [11,723]	46,000 [13,481]	56,500 [16,559]
Net Sensible Capacity Btu/h [kW]	28,700 [8,411]	32,400 [9,496]	39,000 [11,430]
Net Latent Capacity Btu/h [kW]	11,300 [3,312]	13,600 [3,986]	17,500 [5,129]
Net System Power [kW]	4.79	4.14	4.64
Compressor			
No./Stg/Type	1/1/Scroll	1/1/Scroll	1/1/Scroll
Outdoor Sound Rating (dB)³			
	76	77	76
Outdoor Coil—Fin Type			
	MicroChannel	MicroChannel	MicroChannel
Rifled: Tube Size OD or MicroChannel: Depth in. [mm]	MC: 0.630 [16]	MC: 0.630 [16]	MC: 0.811 [20.6]
Face Area sq. ft. [sq. m]	12,833 [1,192]	12,833 [1,192]	12,833 [1,192]
Rows / FPI [FPcm]	23	23	23
Indoor Coil—Fin Type			
	MicroChannel	MicroChannel	MicroChannel
Rifled: Tube Size OD or MicroChannel: Depth in. [mm]	MC: 0.811 [20.6]	MC: 1,000 [25.4]	MC: 1,000 [25.4]
Face Area sq. ft. [sq. m]	5,063 [0.470]	5,063 [0.470]	6,563 [0.610]
Rows / FPI [FPcm]	20	20	20
Outdoor Fan—Type			
No. Used/Diameter in. [mm]	1 / 20 [508]	1 / 20 [508]	1 / 24 [609.6]
CFM [L/s]	3,114	3,114	4,122
Motors/HP	1/4	1/4	1/4
Motor RPM	1,100	1,100	1,000
Indoor Fan—Type			
No. Used/Diameter in. [mm]	1 / 10 [254]	1 / 11 [279.4]	1 / 10 [254]
Motor HP	3/4	1	1
Motor RPM	1,050 Variable	1,050 Variable	1,050 Variable
Refrigerant Charge Oz. [g]			
	44.6	46.7	69
Weights			
Net Weight lbs. [kg]	282 [128]	284 [129]	337 [153]
Ship Weight lbs. [kg]	296 [134]	298 [135]	353 [160]

[] Designates Metric Conversions

NOTES:

1. Cooling Performance is rated at 95°F ambient, 80°F entering dry bulb, 67°F entering wet bulb. Gross capacity does not include the effect of fan motor heat. AHRI capacity is net and includes the effect of fan motor heat. Units are suitable for operation to ±20% of nominal CFM. Units are certified in accordance with the Unitary Air Conditioner Equipment certification program, which is based on AHRI Standard 210/240.
2. EER2 and/or SEER2 are rated at AHRI conditions and in accordance with DOE test procedures.
3. Outdoor Sound Rating shown is tested in accordance with AHRI Standard 270.

GROSS SYSTEMS COOLING PERFORMANCE DATA—RACSYB024

	O.D.T	I.W.B	65°F			75°F			85°F			95°F			105°F			115°F		
CFM	E.D.B.	E.W.B.	T.C.	S.C.	K.W.	T.C.	S.C.	K.W.	T.C.	S.C.	K.W.	T.C.	S.C.	K.W.	T.C.	S.C.	K.W.	T.C.	S.C.	K.W.
700	80	62	24.6	20.3	1.37	23.5	19.7	1.53	22.4	19.3	1.70	21.3	18.8	1.89	20.0	18.1	2.10	18.6	17.5	2.34
	80	67	26.6	17.2	1.37	25.5	16.7	1.54	24.3	16.2	1.72	23.3	15.8	1.91	22.0	15.3	2.13	20.7	14.7	2.38
	80	72	28.5	14.2	1.36	27.4	13.7	1.54	26.1	13.1	1.73	24.9	12.6	1.94	23.9	12.2	2.16	22.7	11.8	2.41
	75	62	24.2	17.3	1.37	23.3	16.8	1.53	22.4	16.4	1.70	21.2	15.9	1.89	19.9	15.2	2.10	18.5	14.6	2.34
	75	67	26.3	14.3	1.37	25.2	13.8	1.54	24.1	13.3	1.72	23.1	12.9	1.91	21.9	12.3	2.13	20.6	11.8	2.38
870	80	62	25.3	22.1	1.43	24.2	21.5	1.59	23.1	21.1	1.77	21.8	20.5	1.96	20.5	19.9	2.17	19.1	19.0	2.41
	80	67	27.3	18.5	1.43	26.2	18.0	1.60	25.0	17.4	1.78	23.9	17.1	1.98	22.6	16.6	2.20	21.1	16.0	2.44
	80	72	29.2	14.8	1.42	28.0	14.3	1.60	26.7	13.7	1.79	25.3	13.2	2.00	24.3	12.8	2.22	23.1	12.5	2.48
	75	62	25.1	18.6	1.43	24.1	18.2	1.59	23.0	17.7	1.77	21.8	17.2	1.96	20.4	16.5	2.17	18.9	15.9	2.41
	75	67	26.9	14.9	1.43	25.7	14.4	1.60	24.6	13.9	1.78	23.7	13.6	1.98	22.4	13.1	2.20	21.0	12.5	2.44
900	80	62	25.4	22.4	1.44	24.3	21.9	1.60	23.2	21.4	1.78	21.9	20.8	1.97	20.6	20.1	2.18	19.3	19.3	2.42
	80	67	27.5	18.7	1.44	26.3	18.2	1.61	25.1	17.6	1.79	24.0	17.3	1.99	22.6	16.8	2.21	21.2	16.2	2.45
	80	72	29.3	14.9	1.43	28.0	14.4	1.61	26.7	13.8	1.80	25.4	13.2	2.01	24.4	12.9	2.23	23.2	12.6	2.49
	75	62	25.2	18.8	1.44	24.2	18.4	1.60	23.1	18.0	1.78	21.8	17.4	1.97	20.5	16.8	2.18	19.0	16.2	2.42
	75	67	27.0	15.0	1.44	25.8	14.5	1.61	24.7	14.0	1.79	23.7	13.7	1.99	22.5	13.2	2.20	21.1	12.6	2.45

T.C. = Total Cooling Capacity
S.C. = Sensible Cooling Capacity
K.W. = Total Kilowatts

GROSS SYSTEMS COOLING PERFORMANCE DATA—RACSYB030

	O.D.T	I.W.B	65°F			75°F			85°F			95°F			105°F			115°F		
CFM	E.D.B.	E.W.B.	T.C.	S.C.	K.W.	T.C.	S.C.	K.W.	T.C.	S.C.	K.W.	T.C.	S.C.	K.W.	T.C.	S.C.	K.W.	T.C.	S.C.	K.W.
875	80	62	29.4	24.1	1.70	28.4	23.7	1.90	27.2	23.3	2.12	25.8	22.6	2.36	24.3	21.8	2.64	22.9	21.3	2.98
	80	67	31.6	20.4	1.70	30.2	19.7	1.90	29.5	19.5	2.05	28.1	19.0	2.34	26.6	18.4	2.63	25.0	17.7	2.97
	80	72	33.6	16.7	1.71	32.1	16.0	1.91	30.5	15.3	2.11	29.5	14.9	2.34	28.7	14.6	2.63	27.2	14.0	2.97
	75	62	29.1	20.6	1.70	28.4	20.4	1.90	27.1	19.8	2.12	25.7	19.1	2.36	24.2	18.4	2.64	22.7	17.7	2.98
	75	67	30.8	16.8	1.70	29.5	16.1	1.90	29.0	16.0	2.11	27.9	15.5	2.34	26.4	14.8	2.62	24.9	14.1	2.97
1070	80	62	30.3	25.8	1.79	29.2	25.6	1.99	27.9	25.2	2.20	26.4	24.5	2.44	24.9	23.9	2.72	23.4	22.9	3.06
	80	67	32.3	21.4	1.79	30.9	20.7	1.99	30.2	20.7	2.14	28.8	20.4	2.43	27.2	19.7	2.72	25.5	19.1	3.07
	80	72	34.2	17.2	1.80	32.7	16.5	2.00	31.0	15.8	2.20	29.9	15.4	2.43	29.3	15.4	2.72	27.7	14.8	3.07
	75	62	29.8	21.7	1.79	29.1	21.8	1.99	27.8	21.2	2.21	26.3	20.6	2.44	24.7	19.9	2.72	23.2	19.1	3.07
	75	67	31.4	17.3	1.79	29.9	16.5	1.99	29.7	16.7	2.20	28.6	16.2	2.43	27.0	15.6	2.72	25.3	14.9	3.06
1125	80	62	30.4	26.3	1.80	29.4	26.1	2.01	28.0	25.7	2.22	26.6	25.2	2.46	25.1	24.4	2.74	23.6	23.3	3.08
	80	67	32.5	21.8	1.81	31.0	21.0	2.01	30.4	20.9	2.15	28.9	20.8	2.45	27.3	20.2	2.74	25.6	19.5	3.08
	80	72	34.4	17.4	1.82	32.8	16.7	2.01	31.1	15.9	2.21	30.0	15.5	2.44	29.4	15.6	2.74	27.8	15.0	3.09
	75	62	30.0	22.1	1.80	29.3	22.2	2.01	27.9	21.6	2.22	26.4	21.0	2.46	24.9	20.3	2.74	23.3	19.5	3.09
	75	67	31.5	17.4	1.81	30.0	16.6	2.00	29.8	16.9	2.22	28.7	16.5	2.45	27.1	15.8	2.73	25.4	15.1	3.08

T.C. = Total Cooling Capacity
S.C. = Sensible Cooling Capacity
K.W. = Total Kilowatts

GROSS SYSTEMS COOLING PERFORMANCE DATA—RACSYB036

	O.D.T	I.W.B	65°F			75°F			85°F			95°F			105°F			115°F		
CFM	E.D.B.	E.W.B.	T.C.	S.C.	K.W.	T.C.	S.C.	K.W.	T.C.	S.C.	K.W.	T.C.	S.C.	K.W.	T.C.	S.C.	K.W.	T.C.	S.C.	K.W.
1050	80	62	38.2	31.6	2.23	36.0	30.7	2.44	33.6	29.5	2.68	30.9	27.9	2.94	28.0	26.5	3.24	25.2	24.7	3.59
	80	67	41.0	26.7	2.24	39.2	25.8	2.46	36.8	24.6	2.70	34.1	23.5	2.98	31.1	22.2	3.29	27.9	20.7	3.63
	80	72	44.1	21.8	2.25	41.8	20.8	2.47	39.7	19.8	2.72	37.2	18.7	3.00	34.4	17.5	3.33	31.2	16.1	3.68
	75	62	37.6	26.9	2.23	35.5	25.7	2.44	33.0	24.7	2.68	30.4	23.2	2.94	27.4	21.9	3.24	24.5	20.4	3.59
	75	67	40.5	22.0	2.24	38.6	21.0	2.46	36.2	19.9	2.70	33.6	18.6	2.98	30.6	17.3	3.29	27.4	15.8	3.63
1220	80	62	39.2	33.8	2.27	36.9	32.8	2.49	34.3	31.4	2.73	31.5	30.1	2.99	28.7	28.1	3.29	26.1	26.1	3.64
	80	67	42.1	28.2	2.29	40.1	27.3	2.51	37.6	26.2	2.75	34.8	25.0	3.03	31.7	23.7	3.34	28.4	22.3	3.68
	80	72	44.9	22.6	2.30	42.5	21.5	2.52	40.5	20.7	2.77	37.9	19.5	3.05	35.0	18.3	3.38	31.8	16.9	3.73
	75	62	38.6	28.5	2.27	36.3	27.4	2.49	33.8	26.3	2.73	31.0	24.9	2.99	27.9	23.3	3.29	24.8	21.8	3.64
	75	67	41.5	23.0	2.29	39.6	22.0	2.51	37.1	20.9	2.75	34.2	19.5	3.03	31.1	18.1	3.34	27.8	16.7	3.68
1350	80	62	39.7	35.3	2.32	37.4	34.4	2.53	34.8	33.0	2.77	32.0	31.3	3.03	29.3	29.3	3.34	26.6	26.6	3.69
	80	67	42.7	29.3	2.33	40.6	28.4	2.55	38.0	27.2	2.80	35.2	26.0	3.07	32.0	24.8	3.38	28.6	23.3	3.72
	80	72	45.3	23.2	2.34	43.0	22.1	2.56	40.9	21.2	2.81	38.4	20.2	3.10	35.3	18.9	3.42	32.0	17.5	3.78
	75	62	39.2	29.6	2.32	36.8	28.6	2.53	34.2	27.4	2.77	31.3	26.0	3.03	28.2	24.4	3.33	25.1	22.2	3.68
	75	67	41.9	23.5	2.33	40.1	22.7	2.55	37.4	21.4	2.80	34.6	20.1	3.07	31.4	18.8	3.38	28.1	17.3	3.72

T.C. = Total Cooling Capacity

S.C. = Sensible Cooling Capacity

K.W. = Total Kilowatts

GROSS SYSTEMS COOLING PERFORMANCE DATA—RACSYB042

	O.D.T	I.W.B	65°F			75°F			85°F			95°F			105°F			115°F		
CFM	E.D.B.	E.W.B.	T.C.	S.C.	K.W.	T.C.	S.C.	K.W.	T.C.	S.C.	K.W.	T.C.	S.C.	K.W.	T.C.	S.C.	K.W.	T.C.	S.C.	K.W.
1400	80	62	43.8	37.1	2.32	41.2	35.6	2.54	38.7	34.4	2.80	36.0	33.0	3.09	33.1	31.7	3.42	30.2	29.9	3.78
	80	67	47.6	31.6	2.35	45.0	30.3	2.58	42.5	29.0	2.84	39.9	27.8	3.13	36.8	26.4	3.46	33.3	24.8	3.81
	80	72	50.6	25.6	2.34	48.0	24.4	2.57	45.3	23.1	2.84	42.5	21.8	3.14	39.6	20.6	3.47	36.3	19.2	3.82
	75	62	43.0	31.3	2.31	40.7	30.1	2.55	38.1	28.8	2.81	35.4	27.4	3.09	32.5	25.9	3.42	29.6	24.4	3.78
	75	67	46.8	25.8	2.35	44.2	24.5	2.58	41.7	23.3	2.84	39.2	22.1	3.13	36.2	20.7	3.46	32.7	19.1	3.81
1600	80	62	44.1	38.6	2.52	41.5	37.1	2.74	38.8	35.9	3.00	36.0	34.4	3.29	33.1	32.7	3.62	30.6	30.6	3.98
	80	67	48.1	32.6	2.55	45.3	31.1	2.78	42.7	29.8	3.04	40.0	28.7	3.34	36.9	27.3	3.66	33.2	25.6	4.01
	80	72	50.9	26.0	2.54	48.2	24.6	2.77	45.4	23.3	3.04	42.4	22.0	3.34	39.7	20.9	3.67	36.1	19.4	4.03
	75	62	43.4	32.3	2.51	41.0	31.0	2.75	38.3	29.7	3.01	35.4	28.3	3.29	32.4	26.8	3.62	29.4	25.3	3.98
	75	67	47.0	26.2	2.55	44.3	24.8	2.78	41.9	23.6	3.04	39.3	22.4	3.34	36.2	21.0	3.66	32.6	19.4	4.01
1750	80	62	44.1	39.6	2.70	41.4	38.0	2.93	38.7	36.8	3.19	35.9	35.2	3.48	33.2	33.2	3.81	30.7	30.7	4.17
	80	67	48.1	33.0	2.73	45.3	31.6	2.96	42.6	30.3	3.22	39.9	29.2	3.52	36.7	27.8	3.85	33.0	26.1	4.20
	80	72	50.8	26.0	2.72	48.1	24.7	2.96	45.2	23.4	3.23	42.2	21.9	3.52	39.4	20.8	3.86	35.9	19.4	4.21
	75	62	43.4	32.8	2.70	40.9	31.5	2.93	38.2	30.3	3.19	35.3	28.9	3.48	32.2	27.3	3.80	29.1	25.5	4.16
	75	67	47.0	26.3	2.73	44.2	24.8	2.96	41.7	23.6	3.22	39.2	22.5	3.52	36.0	21.1	3.85	32.4	19.4	4.20

T.C. = Total Cooling Capacity

S.C. = Sensible Cooling Capacity

K.W. = Total Kilowatts

GROSS SYSTEMS COOLING PERFORMANCE DATA—RACSYB048

	O.D.T	I.W.B	65°F			75°F			85°F			95°F			105°F			115°F		
CFM	E.D.B.	E.W.B.	T.C.	S.C.	K.W.	T.C.	S.C.	K.W.	T.C.	S.C.	K.W.	T.C.	S.C.	K.W.	T.C.	S.C.	K.W.	T.C.	S.C.	K.W.
1600	80	62	52.1	42.4	2.98	49.1	41.0	3.26	45.9	39.4	3.61	42.4	37.5	3.98	38.7	35.8	4.40	34.8	33.5	4.85
	80	67	56.3	36.1	3.01	53.3	34.5	3.30	50.3	33.1	3.65	46.8	31.4	4.06	43.0	29.6	4.49	38.8	27.6	4.94
	80	72	60.5	29.4	3.01	57.2	27.9	3.31	53.8	26.3	3.66	50.5	24.7	4.06	46.8	23.2	4.52	42.4	21.3	4.99
	75	62	50.9	35.8	2.97	48.3	34.5	3.26	45.1	32.9	3.61	41.7	31.1	3.98	38.0	29.1	4.40	34.0	27.0	4.86
	75	67	55.4	29.6	3.01	52.3	27.9	3.30	49.6	26.6	3.65	46.0	24.9	4.05	42.2	23.1	4.49	38.1	21.2	4.94
1750	80	62	52.7	43.8	3.05	49.7	42.4	3.34	46.3	40.7	3.68	42.8	39.1	4.06	39.0	37.1	4.48	35.1	34.7	4.93
	80	67	57.2	37.2	3.09	53.9	35.4	3.38	50.8	34.0	3.73	47.2	32.4	4.14	43.3	30.5	4.57	39.1	28.5	5.02
	80	72	61.2	30.1	3.09	57.7	28.4	3.39	54.3	26.7	3.74	50.9	25.2	4.14	47.1	23.6	4.60	42.7	21.7	5.07
	75	62	51.7	36.8	3.05	48.9	35.5	3.34	45.6	33.9	3.68	42.1	32.0	4.06	38.3	30.0	4.48	34.2	28.0	4.93
	75	67	56.2	30.2	3.09	52.9	28.5	3.38	50.0	27.1	3.73	46.5	25.4	4.13	42.5	23.6	4.57	38.3	21.5	5.02
1900	80	62	53.2	45.1	3.13	50.1	43.8	3.43	46.7	42.0	3.77	43.1	40.4	4.15	39.3	38.0	4.57	35.6	35.6	5.03
	80	67	58.1	37.9	3.17	54.3	36.2	3.46	51.2	34.9	3.82	47.5	33.2	4.22	43.5	31.3	4.66	39.2	29.3	5.11
	80	72	61.5	30.4	3.17	58.4	28.8	3.48	54.5	27.0	3.83	51.1	25.7	4.23	47.4	24.0	4.69	42.9	22.1	5.16
	75	62	52.1	37.7	3.13	49.3	36.4	3.43	45.9	34.7	3.77	42.3	32.9	4.15	38.4	31.0	4.57	34.3	28.8	5.02
	75	67	56.5	30.6	3.17	53.1	28.9	3.46	50.3	27.5	3.82	46.7	25.9	4.22	42.7	24.0	4.66	38.4	21.9	5.11

T.C. = Total Cooling Capacity
S.C. = Sensible Cooling Capacity
K.W. = Total Kilowatts

GROSS SYSTEMS COOLING PERFORMANCE DATA—RACSYB060

	O.D.T	I.W.B	65°F			75°F			85°F			95°F			105°F			115°F		
CFM	E.D.B.	E.W.B.	T.C.	S.C.	K.W.	T.C.	S.C.	K.W.	T.C.	S.C.	K.W.	T.C.	S.C.	K.W.	T.C.	S.C.	K.W.	T.C.	S.C.	K.W.
1600	80	62	59.6	48.0	3.42	57.5	47.1	3.77	55.1	46.0	4.20	52.4	44.9	4.68	49.5	43.1	5.25	46.4	42.0	5.90
	80	67	64.7	41.1	3.41	62.2	39.9	3.75	59.8	38.9	4.16	57.1	37.7	4.64	54.1	36.4	5.20	50.7	35.0	5.84
	80	72	70.1	34.0	3.43	67.3	32.8	3.77	64.5	31.5	4.17	61.8	30.4	4.64	58.8	29.3	5.21	55.4	27.9	5.84
	75	62	59.2	41.2	3.42	57.2	40.3	3.77	54.8	39.2	4.19	52.1	37.9	4.68	49.2	36.4	5.25	46.0	34.9	5.91
	75	67	63.8	34.0	3.41	61.6	33.0	3.75	59.5	32.1	4.15	56.7	30.8	4.64	53.7	29.4	5.20	50.4	28.0	5.85
1790	80	62	60.5	50.0	3.56	58.3	49.1	3.92	55.8	48.3	4.33	53.0	46.5	4.82	50.0	45.5	5.38	46.8	43.9	6.04
	80	67	65.5	42.4	3.56	63.0	41.1	3.89	60.6	40.2	4.30	57.7	39.0	4.79	54.6	37.8	5.34	51.2	36.2	5.98
	80	72	70.8	34.5	3.58	68.3	33.5	3.92	65.4	32.3	4.32	62.5	31.2	4.79	59.4	29.9	5.35	55.9	28.5	5.98
	75	62	60.1	42.6	3.56	58.0	41.7	3.92	55.5	40.6	4.33	52.7	39.2	4.82	49.7	37.8	5.39	46.5	36.3	6.05
	75	67	64.9	34.9	3.55	62.5	33.8	3.89	60.2	32.7	4.30	57.4	31.5	4.78	54.2	30.2	5.34	50.9	28.6	5.99
2000	80	62	61.2	51.9	3.76	58.8	51.0	4.11	56.2	49.7	4.53	53.4	48.8	5.01	50.3	47.4	5.57	47.0	45.4	6.23
	80	67	66.1	43.6	3.75	63.7	42.4	4.09	61.1	41.5	4.50	58.1	40.2	4.99	54.8	38.9	5.54	51.4	37.5	6.18
	80	72	71.6	35.2	3.77	68.7	34.0	4.11	65.7	32.8	4.52	63.1	31.7	5.00	59.8	30.5	5.55	56.2	29.1	6.18
	75	62	60.7	43.8	3.76	58.5	42.9	4.11	55.9	41.9	4.53	53.0	40.6	5.02	49.9	39.1	5.58	46.6	37.5	6.25
	75	67	65.6	35.5	3.75	63.0	34.2	4.09	60.7	33.3	4.50	57.7	32.1	4.98	54.5	30.7	5.54	51.1	29.2	6.18

T.C. = Total Cooling Capacity
S.C. = Sensible Cooling Capacity
K.W. = Total Kilowatts

INDOOR AIRFLOW PERFORMANCE—RACSYB—208/230V

HEAT RISE DATA (Based on Nominal 10w Electric Heat Kit)																						
EXTERNAL STATIC PRESSURE DROP – INCHES WATER COLUMN																						
RACS	YB Unit	Blower Setting	0.1		0.2		0.3		0.4		0.5		.06		0.7		0.8		0.9		1.0	
			CFM	HEAT RISE	CFM	HEAT RISE	CFM	HEAT RISE	CFM	HEAT RISE	CFM	HEAT RISE	CFM	HEAT RISE	CFM	HEAT RISE	CFM	HEAT RISE	CFM	HEAT RISE	CFM	HEAT RISE
24		Tap T1	755	42	706	45	637	50	598	53	548	58	520	61	520	61	450	70	406	78	365	87
		Tap T2*	894	35	852	37	804	39	760	42	707	45	661	48	661	48	574	55	542	58	498	63
		Tap T3**	1,054	30	1,013	31	978	32	932	34	896	35	839	38	839	38	755	42	730	43	690	46
		Tap T4	1,218	26	1,181	27	1,148	28	1,108	29	1,068	30	1,026	31	1,026	31	934	34	919	34	881	36
		Tap T5	1,375	23	1,341	24	1,306	24	1,270	25	1,233	26	1,199	26	1,199	26	1,120	28	1,102	29	1,069	30
30		Tap T1	937	34	917	34	866	36	819	39	744	42	676	47	624	51	561	56	514	61	458	69
		Tap T2**	1,160	27	1,128	28	1,094	29	1,049	30	1,004	31	950	33	877	36	814	39	801	39	755	42
		Tap T3*	1,292	24	1,258	25	1,216	26	1,178	27	1,124	28	1,077	29	1,022	31	963	33	929	34	882	36
		Tap T4	1,436	22	1,400	23	1,363	23	1,324	24	1,275	25	1,226	26	1,179	27	1,125	28	1,091	29	1,046	30
		Tap T5	1,570	20	1,535	21	1,494	21	1,458	22	1,416	22	1,372	23	1,322	24	1,273	25	1,240	25	1,197	26
36		Tap T1	1147	28	1108	29	1073	29	1,029	31	986	32	926	34	860	37	793	40	765	41	715	44
		Tap T2**	1307	24	1,276	25	1236	26	1,203	26	1,159	27	1,110	28	1,064	30	1,003	31	976	32	933	34
		Tap T3	1441	22	1,413	22	1373	23	1,339	24	1,304	24	1,248	25	1,213	26	1,163	27	1,132	28	1,092	29
		Tap T3*	1562	20	1,531	21	1503	21	1,467	22	1,432	22	1,394	23	1,351	23	1,311	24	1,282	25	1,246	25
		Tap T5	1594	20	1,559	20	1530	21	1,494	21	1,461	22	1,424	22	1,381	23	1,331	24	1,307	24	1,270	25
42		Tap T1	1,342	24	1,301	24	1,260	25	1,221	26	1,181	27	1,139	28	1,100	29	1,055	30	1,017	31	976	32
		Tap T2*	1,507	21	1,465	22	1,425	22	1,388	23	1,349	23	1,310	24	1,262	25	1,227	26	1,187	27	1,147	28
		Tap T3**	1,759	18	1,724	18	1,690	19	1,650	19	1,613	20	1,571	20	1,532	21	1,488	21	1,454	22	1,415	22
		Tap T4	1,928	16	1,891	17	1,857	17	1,819	17	1,778	18	1,740	18	1,705	19	1,664	19	1,628	19	1,590	20
		Tap T5	2,047	15	2,015	16	1,982	16	1,950	16	1,912	17	1,881	17	1,836	17	1,795	18	1,767	18	1,731	18
48		Tap T1	1,534	21	1,499	21	1,455	22	1,411	22	1,369	23	1,329	24	1,285	25	1,240	25	1,200	26	1,158	27
		Tap T2**	1,746	18	1,711	18	1,673	19	1,637	19	1,599	20	1,561	20	1,523	21	1,486	21	1,449	22	1,412	22
		Tap T3	1,867	17	1,835	17	1,802	18	1,756	18	1,729	18	1,694	19	1,660	19	1,624	19	1,589	20	1,554	20
		Tap T2*	1,986	16	1,954	16	1,924	16	1,893	17	1,858	17	1,822	17	1,784	18	1,748	18	1,718	18	1,684	19
		Tap T5	2,164	15	2,134	15	2,108	15	2,076	15	2,045	15	2,017	16	1,986	16	1,945	16	1,921	16	1,891	17
60		Tap T1	1,576	20	1,539	21	1,502	21	1,460	22	1,417	22	1,373	23	1,339	24	1,302	24	1,259	25	1,219	26
		Tap T2**	1,736	18	1,697	19	1,663	19	1,630	19	1,593	20	1,549	20	1,513	21	1,479	21	1,442	22	1,405	22
		Tap T3	1,924	16	1,889	17	1,855	17	1,820	17	1,786	18	1,749	18	1,707	19	1,679	19	1,642	19	1,606	20
		Tap T2*	2,079	15	2,041	15	2,007	16	1,977	16	1,949	16	1,910	17	1,873	17	1,837	17	1,806	17	1,772	18
		Tap T5	2,222	14	2,197	14	2,157	15	2,129	15	2,089	15	2,058	15	2,030	16	1,988	16	1,958	16	1,925	16

* Denotes factory set COOL speed

** Denotes factory set electric HEAT speed

Temperature rises shaded gray are for reference only. These conditions are not recommended.

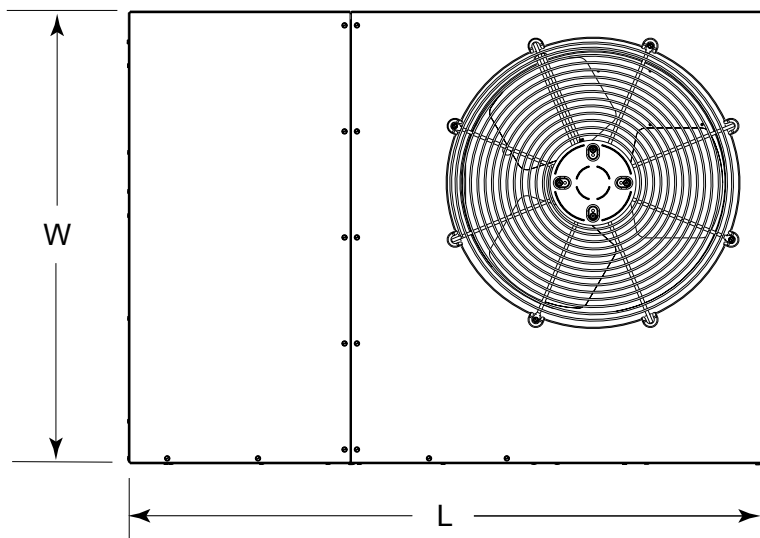
ELECTRICAL DATA - RACSYB SERIES							
		024AJT	030AJT	036AJT	042AJT	048AJT	060AJT
Unit Information	Unit Operating Voltage Range	208/230	208/230	208/230	208/230	208/230	208/230
	Volts ¹	208/230	208/230	208/230	208/230	208/230	208/230
	Phase	1	1	1	1	1	1
	Hz	60	60	60	60	60	60
	Minimum Circuit Ampacity	16	20.5	25.7	28.5	36.5	38.1
	Maximum Overcurrent Protection ²	20	30	40	45	50	60
Compressor Motor	No.	1	1	1	1	1	1
	Volts	208/230	208/230	208/230	208/230	208/230	208/230
	Phase	1	1	1	1	1	1
	Amps (RLA), Comp. 1	9.0	12.5	16.6	17.3	22.4	23.4
	Amps (LRA), Comp. 1	63	67	94	123	126	157.0
	Amps (RLA), Comp. 2	N/A	N/A	N/A	N/A	N/A	N/A
	Amps (LRA), Comp. 2	N/A	N/A	N/A	N/A	N/A	N/A
Condenser Motor	No.	1	1	1	1	1	1
	Volts	208/230	208/230	208/230	208/230	208/230	208/230
	Phase	1	1	1	1	1	1
	HP	1/5	1/8	1/8	1/4	1/4	1/4
	Amps (FLA, each)	1.00	1.10	1.10	1.46	1.46	1.46
	Amps (LRA, each)	2.00	1.59	1.59	2.64	2.64	2.64
Evaporator Fan	No.	1	1	1	1	1	1
	Volts	208/230	208/230	208/230	208/230	208/230	208/230
	Phase	1	1	1	1	1	1
	HP	1/2	1/2	1/2	3/4	1	1
	Amps (FLA, each)	3.8	3.8	3.8	5.4	7	7
	Amps (LRA, each)	N/A	N/A	N/A	N/A	N/A	N/A

¹Operating Voltage Range: 187v min.–253v max. Amperage and wire size based on refrigeration system only.
 See electrical data tables for supplemental electric heaters.

²HACR Type Circuit Breakers may be used.

Model RACSYB, Single Phase, 208/230V							
Model	Heater kW HK1 Series	Single Circuit		Single Circuit			
		MCA	MOP	Circuit A		Circuit B	
				MCA	MOP	MCA	MOP
RACSYB024	0	16.0	20	—/—	—/—	—/—	—/—
	5	26.4/28.7	30/30	—/—	—/—	—/—	—/—
	8	39.1/42.7	40/45	—/—	—/—	—/—	—/—
	10	48.1/52.7	50/60	—/—	—/—	—/—	—/—
	15	69.8/76.6	70/80	48.1/52.7	50/60	21.7/24.0	25/25
RACSYB030	0	20.5	30	—/—	—/—	—/—	—/—
	5	26.4/28.7	30/30	—/—	—/—	—/—	—/—
	8	39.1/42.7	40/45	—/—	—/—	—/—	—/—
	10	48.1/52.7	50/60	—/—	—/—	—/—	—/—
	15	69.8/76.6	70/80	48.1/52.7	50/60	21.7/24.0	25/25
RACSYB036	0	25.7	40	—/—	—/—	—/—	—/—
	5	26.4/28.7	40/40	—/—	—/—	—/—	—/—
	8	39.1/42.7	40/45	—/—	—/—	—/—	—/—
	10	48.1/52.7	50/60	—/—	—/—	—/—	—/—
	15	69.8/76.6	70/80	48.1/52.7	50/60	21.7/24.0	25/25
RACSYB042	0	28.5	45	—/—	—/—	—/—	—/—
	5	28.5/30.7	45/45	—/—	—/—	—/—	—/—
	8	41.1/44.7	45/45	—/—	—/—	—/—	—/—
	10	50.1/54.7	60/60	—/—	—/—	—/—	—/—
	15	71.8/78.6	80/80	50.1/54.7	60/60	21.7/24.0	25/25
	20	93.4/102.6	100/110	50.1/54.7	60/60	43.3/47.9	45/50
RACSYB048	0	36.5	50	—/—	—/—	—/—	—/—
	5	36.5/36.5	50/50	—/—	—/—	—/—	—/—
	8	43.1/46.7	50/50	—/—	—/—	—/—	—/—
	10	52.1/56.7	60/60	—/—	—/—	—/—	—/—
	15	73.8/80.6	80/90	52.1/56.7	60/60	21.7/24.0	25/25
	20	95.4/104.6	100/110	52.1/56.7	60/60	43.3/47.9	45/50
RACSYB060	0	38.1	60	—/—	—/—	—/—	—/—
	5	38.1/38.1	60/60	—/—	—/—	—/—	—/—
	8	43.1/46.7	60/60	—/—	—/—	—/—	—/—
	10	52.1/56.7	60/60	—/—	—/—	—/—	—/—
	15	73.8/80.6	80/90	52.1/56.7	60/60	21.7/24.0	25/25
	20	95.4/104.6	100/110	52.1/56.7	60/60	43.3/47.9	45/50

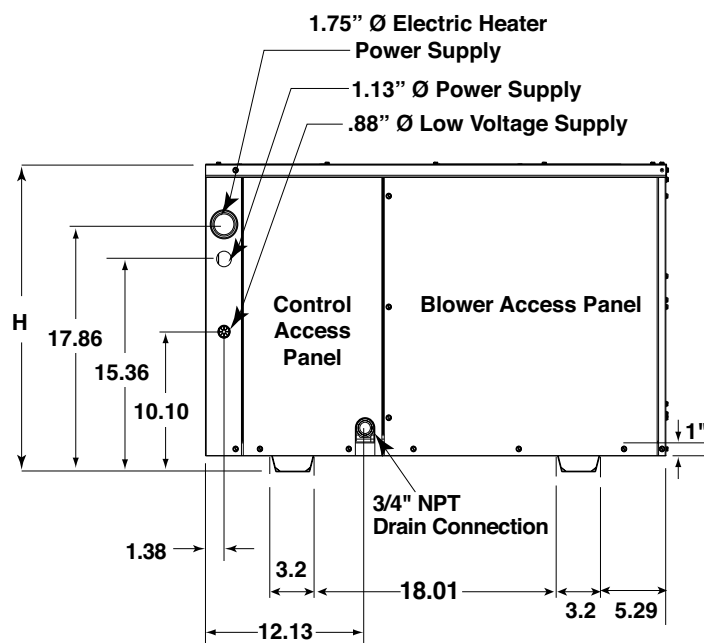
TOP VIEW



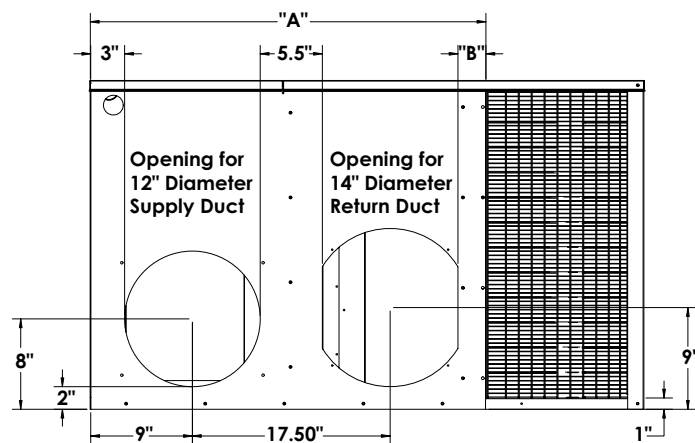
DIMENSIONS

Model	Length (L)	Width (W)	Height (H)
024, 030, 036	49"	35"	22.2"
042, 048	49"	35"	30.2"
060	63"	35"	38.2"

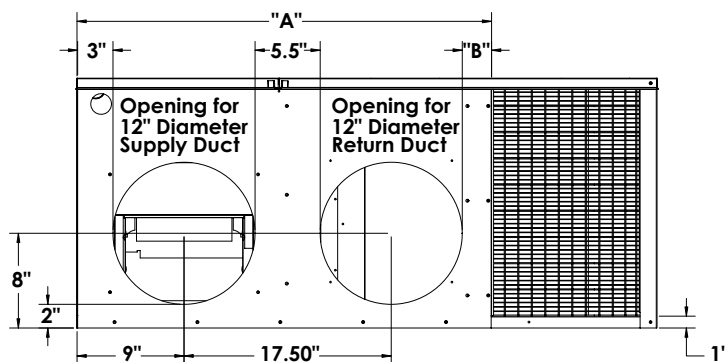
SIDE VIEW



BACK (DUCT) VIEW



2, 2.5, and 3 Ton



3.5, 4, and 5 Ton

HEATER APPLICATION MATRIX

Model	RXJJ-FD05J	RXJJ-FD08J	RXJJ-FD10J	RXJJ-FD15J	RXJJ-FE15J	RXJJ-FE20J
024K	X	X	X	X	X	NA
030K	X	X	X	X(2)	X	NA
036K	X	X	X	X(2)	X	NA
042K	X	X	X	X(2)	X	X
048K	X	X	X	X(2)	X	X
060K	X	X	X	X(2)	X	X

NA = Not Approved

() = Number of internal circuit breaker kits required

X = Branch circuit protection only

RETURN & SUPPLY DIAMETERS

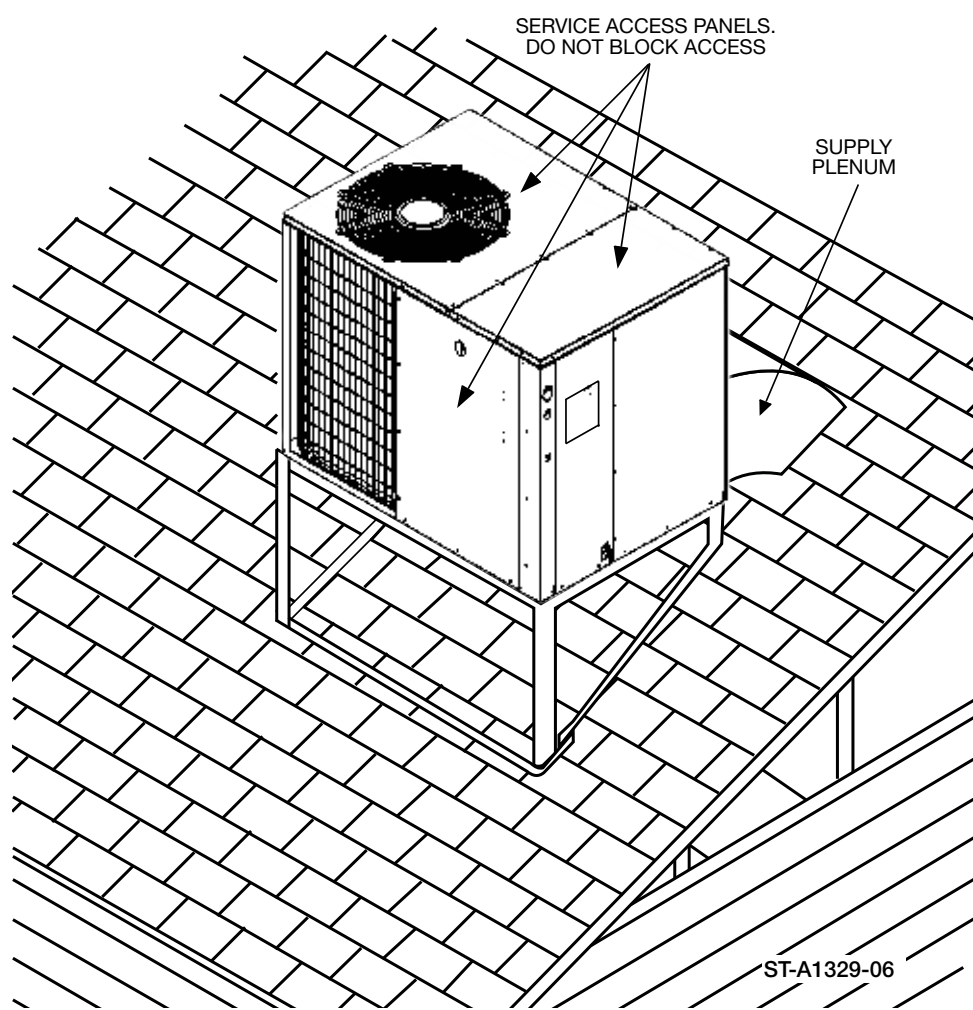
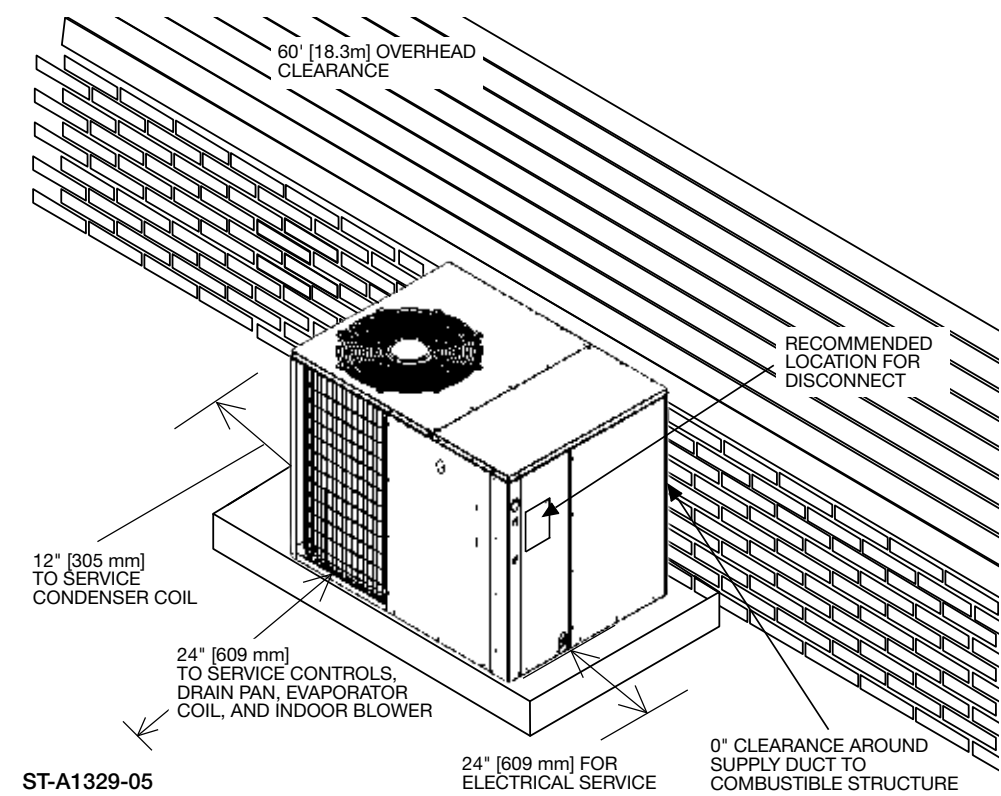
Model	Return Diameter (in)	Supply Diameter (in)
024K	12"	12"
030K	12"	12"
036K	12"	12"
042K	14"	12"
048K	14"	12"
060K	14"	12"

ACCESSORIES

Description	Part Number
4-Pole Single Circuit Adaptor	913250
Circuit Breaker Single Phase (2-pole)	913554
12" Duct Collar (Sold in multiples of 10)	294941R
14" Duct Collar (Sold in multiples of 10)	294942R

High Wind Tie-Down Kits:

<http://miamitech.com/products/metal/cutdnortek.html>





GENERAL TERMS OF LIMITED WARRANTY*

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

***For complete details of the Limited and Conditional Warranties, including applicable terms and conditions, contact your local contractor or the Manufacturer for a copy of the product warranty certificate.**

Compressor

Residential Applications Ten (10) Years
Commercial Applications..... Five (5) Years

Parts

Residential Applications
(Registration Required) Ten (10) Years
Commercial Applications..... One (1) Year

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.

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

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