

# 13<sup>SEER</sup>

# Light Commercial 3 Phase Packaged Electric / Electric

Form No. AC-RCE13-100 (04/2013)

## RCE13 Features and Benefits

### Refrigerant System

- Environmentally friendly R410A refrigerant
- Copper tubing with enhanced fin coils
- External service gauge ports

### Cabinet Construction

- Low profile, with compact footprint
- Insulation to minimize heat loss plus reduce sound
- Baked on pre painted steel cabinet finish
- Easy service access
- Wire grill protection
- One piece "no leak" top design

### Blower

- Insulated compartment to reduce sound
- High efficiency multispeed motor for wide airflow range

### Installation

- Full perimeter base rail system for easy installation
- Horizontal or down discharge, duct covers provided
- Utility connections on "right side"
- Filter channels for 1" filter field provided
- Factory Installed Economizer Harness for easy accessory connections



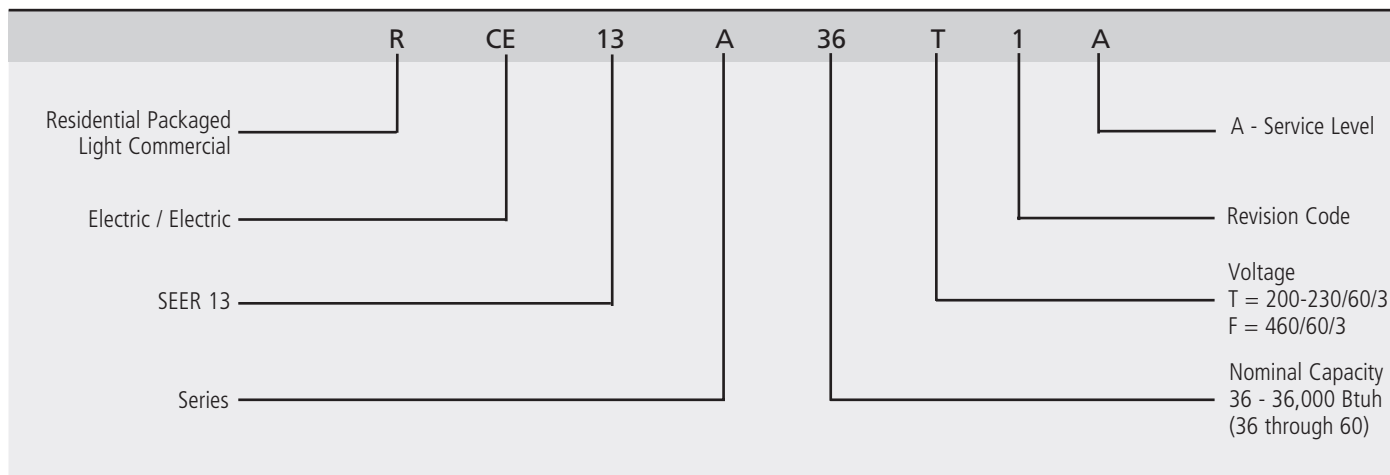
### Warranty

- 1 year limited parts warranty
  - 5 year limited compressor warranty
- See limited warranty document for details.



# ALLIED Commercial

### Model Number Guide



### Electrical and Physical Data

Model	Voltage/HZ/Phase	Voltage Range 60 hz	Minimum Circuit Amp.	Maximum Over Current Device (amps)	Compressor		Condenser Fan Motor			Indoor Blower Motor		Refrig. Charge	Shipping Weight (lbs.)
					Rated Load (amps)	Locked Rotor (amps)	Rated Load (amps)	Rated HP	Nom. RPM	Rated Load (amps)	Rated HP		
RCE13A36T-1	200-230/60/3	187-253	16.1	20	8.6	68	1.2	1/4	1075	4.1	1/2	117	360
RCE13A48T-1	200-230/60/3	187-253	22.3	30	11.8	88	1.7	1/3	1075	5.8	3/4	104	455
RCE13A60T-1	200-230/60/3	187-253	27.3	40	15.9	110	1.7	1/3	1075	5.8	3/4	140	465
RCE13A48F-1	460/60/3	414-506	10.7	15	15.2	44	1.0	1/3	1075	3.2	3/4	104	460
RCE13A60F-1	460/60/3	414-506	13.0	20	7.0	52	1.0	1/3	1075	3.2	3/4	140	470

Note: Weights listed are unit weights with packaging

### Performance

Model	Cooling				
	SEER	EER	Rated AHRI Capacity <sup>1</sup> BTUH	Rated Sensible Capacity Btuh	CFM
RCE13A36T-1	13.0	11.0	34,000	24,100	1200
RCE13A48T,F-1	13.0	11.0	46,000	34,500	1600
RCE13A60T,F-1	13.0	11.0	56,000	40,300	1800

### Blower Performance

Model	Blower Tap	CFM @ Ext. Static Pressure in inch WC w/o Filter, dry coil						
		0.2	0.3	0.4	0.5	0.6	0.7	0.8
RCE13A36T-1	1	650	590	500	430	---	---	---
	2	1240	1200	1150	1100	1060	1020	980
	3	1320	1260	1230	1200	1160	1120	1080
	4	1240	1200	1150	1100	1060	1020	980
	5	1320	1260	1230	1200	1160	1120	1080
RCE13A48T,F-1	1	860	760	690	640	---	---	---
	2	1650	1600	1550	1500	1440	1370	1290
	3	1800	1750	1690	1630	1570	1470	1330
	4	1650	1600	1550	1500	1440	1370	1290
	5	1800	1750	1690	1630	1570	1470	1330
RCE13A60T,F-1	1	1000	900	800	750	---	---	---
	2	1820	1790	1730	1670	1630	1530	1380
	3	1950	1910	1860	1800	1700	1560	1360
	4	1820	1790	1730	1670	1630	1530	1380
	5	1950	1910	1860	1800	1700	1560	1360

Subtract .10 Duct Static for Downflow CFM

Taps 4 & 5 are used with Electric Heat. Refer to Heater Label on unit for proper Heat Tap selection

### Cooling Performance Extended Ratings

Model	Indoor Temp DB/WB °F	Outdoor Temp - DB°F														
		65°			82°			95°			105°			115°		
		Btuh	S/T	kW	Btuh	S/T	kW	Btuh	S/T	kW	Btuh	S/T	kW	Btuh	S/T	kW
RCE13A36T-1	85/72	39,000	0.62	2.35	37,500	0.64	2.77	36,300	0.65	3.10	34,200	0.68	3.43	31,900	0.70	3.48
	80/67	36,800	0.69	2.34	36,100	0.71	2.73	34,000	0.72	3.09	31,000	0.76	3.33	29,000	0.78	3.47
	75/63	35,600	0.72	2.33	32,900	0.75	2.74	30,700	0.77	3.06	28,500	0.80	3.38	26,100	0.83	3.44
	75/57	32,000	1.00	2.29	31,000	1.00	2.71	30,300	1.00	3.03	28,100	1.00	3.35	25,800	1.00	3.40
RCE13A48T,F-1	85/72	58,200	0.64	3.30	53,700	0.66	3.83	50,300	0.68	4.23	44,800	0.72	4.49	39,300	0.75	4.52
	80/67	54,900	0.70	3.27	51,500	0.71	3.79	46,000	0.76	4.18	41,500	0.80	4.39	33,300	0.86	4.39
	75/63	51,600	0.73	3.24	45,900	0.77	3.74	41,500	0.80	4.12	34,900	0.86	4.33	28,400	0.91	4.32
	75/57	47,800	1.00	3.20	43,900	1.00	3.71	40,900	1.00	4.10	35,300	1.00	4.31	29,600	1.00	4.30
RCE13A60T,F-1	85/72	67,500	0.62	3.83	63,500	0.64	4.54	60,700	0.65	5.08	56,500	0.66	5.65	52,300	0.67	5.60
	80/67	63,600	0.68	3.80	59,800	0.71	4.45	56,000	0.72	5.06	54,300	0.74	5.62	47,200	0.77	5.58
	75/63	60,300	0.71	3.77	55,500	0.73	4.48	52,200	0.75	5.02	47,300	0.78	5.57	42,400	0.81	5.52
	75/57	53,400	1.00	3.73	49,200	1.00	4.43	46,200	1.00	4.97	42,100	1.00	5.54	38,300	1.00	5.49

### Heat Strip Electrical

Model No.	Heater Model	Unit Supply Single Phase	Heater kW	Minimum Circuit Ampacity 1	Maximum Fuse / HACR Brkr. 2 1	Minimum Circuit Ampacity 2	Maximum Fuse / HACR Brkr. 2 2
RCE13A36T-1	AHSA10B	240	10.0	35.2	40	-	-
		208	7.5	31.2	35	-	-
	AHSA15B	240	15.0	50.2	60	-	-
		208	11.3	44.2	45	-	-
RCE13A48T-1 RCE13A60T-1	AHSA10B	240	10.0	37.3	40	-	-
		208	7.5	33.3	35	-	-
	AHSA15B	240	15.0	52.4	60	-	-
		208	11.3	46.3	50	-	-
RCE13A48F-1 RCE13A60F-1	AHSA10C	480	10.0	19	20	-	-
	AHSA15C	480	15.0	25.8	30	-	-

### Accessories

Description	Where Used	Kit Number
Short Cycle Protector	All Units	47127
Roof Curb	RCE13A36	ACURB160-1
Roof Curb	RCE13A48 & RCE13A60	ACURB162-1
Manual Fresh Air Damper	RCE13A36	ADMPR145-1
Manual Fresh Air Damper	RCE13A48 & RCE13A60	ADMPR166-1
Motorized Fresh Air Damper	RCE13A36	ADMPR146-1
Motorized Fresh Air Damper	RCE13A48 & RCE13A60	ADMPR167-1
Downflow Economizer	RCE13A36	AECON825-1
Downflow Economizer	RCE13A48 & RCE13A60	AECON826-1
Horizontal Economizer	RCE13A36	AECON827-1
Horizontal Economizer	RCE13A48 & RCE13A60	AECON828-1
10 kw Electric Heater 230V 3 PH	RCE13A36, RCE13A48 & RCE13A60 T models (230V 3 PH)	AHSA10B-1
15 kw Electric Heater 230V 3 PH	RCE13A36, RCE13A48 & RCE13A60 T models (230V 3 PH)	AHSA15B-1
10 kw Electric Heater 460V 3 PH	RCE13A36, RCE13A48 & RCE13A60 F models (460V 3 PH)	AHSA10C-1
15 kw Electric Heater 460V 3 PH	RCE13A36, RCE13A48 & RCE13A60 F models (460V 3 PH)	AHSA15C-1

Dimensions (in.)

Model No.	A	B	C	D	E	F
RCE13-36T-1	32-1/2	46-1/2	46-1/2	45-5/8	45-5/8	17-1/2
RCE13-48T,F-1	34-1/2	55-1/2	50-1/2	54-5/8	49-5/8	21-1/2
RCE13-60T,F-1						

Model No.	G	H	J	K	L	M
RCE13-36T-1	11-1/2	5-1/2	1-5/8	4	4	1-3/4
RCE13-48T,F-1	12	5-1/2	1-5/8	6-1/4	5-5/8	2-3/8
RCE13-60T,F-1						

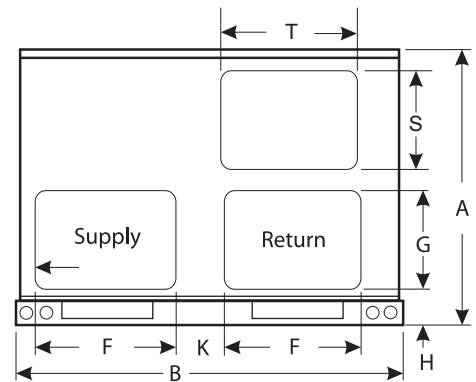
Model No.	N	P	Q	R	S	T
RCE13-36T-1	15-5/8	27-3/4	24-7/8	9-3/4	-	-
RCE13-48T,F-1	17-1/8	29-3/4	26-7/8	15-1/2	12	21-1/2
RCE13-60T,F-1						

Sound Ratings

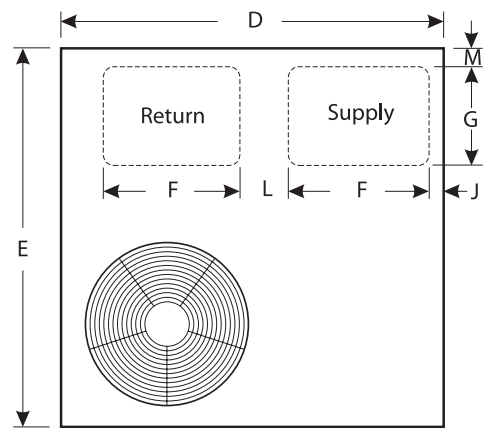
Model No.	Sound dBA
RCE13A36T-1	79
RCE13A48T,F-1	80
RCE13A60T,F-1	80

Field Provided 1" Filter Dimensions

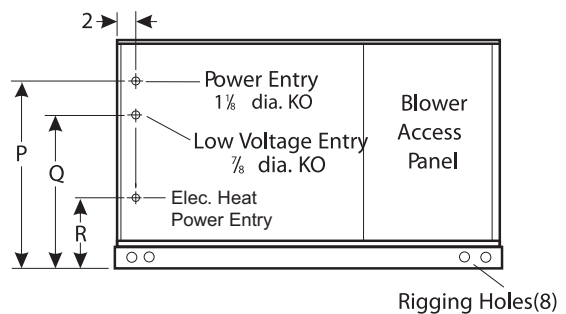
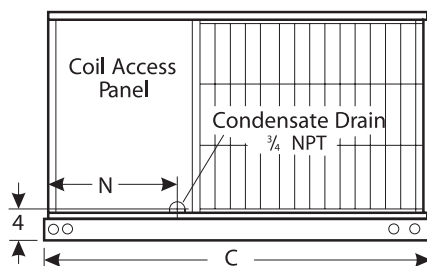
Small Base	3 Ton	24" width 28" height
Large Base	4 & 5 Ton	30" width 30" height



REAR



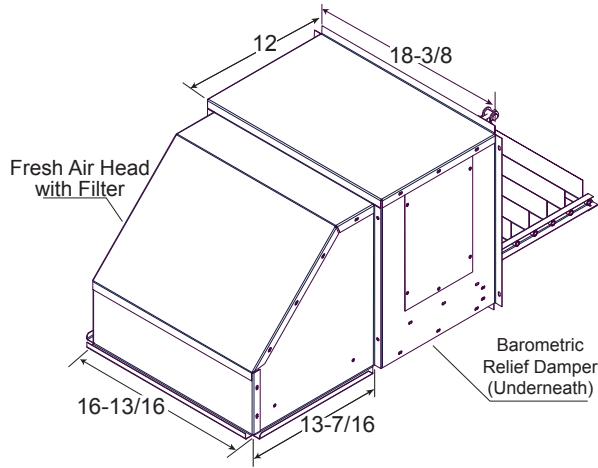
TOP



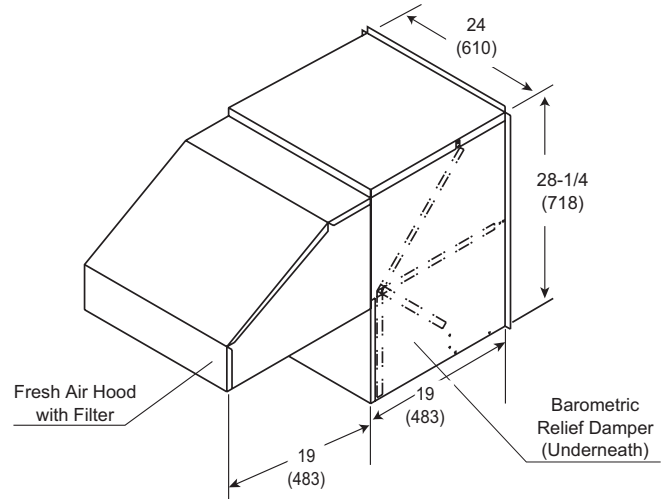
## Accessories Dimensions inches (mm)

### ECONOMIZER DAMPERS - DOWNFLOW

FOR 36 MODEL

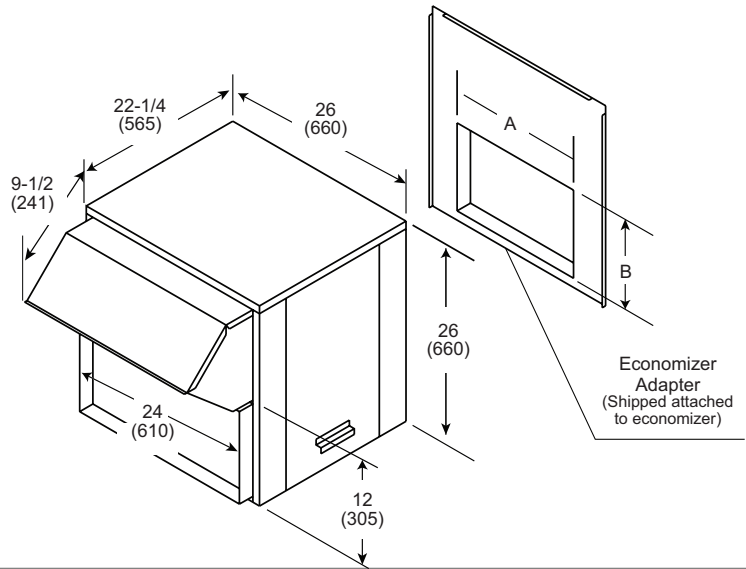


FOR 48 AND 60 MODELS



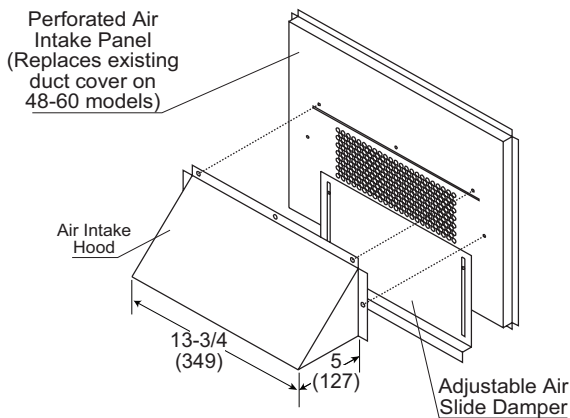
### ECONOMIZER DAMPERS - HORIZONTAL

Model No.	A		B	
	in	mm	in	mm
RCE13A36	17-5/8	448	11-1/2	292
RCE13A 48, 60	21-3/4	552	12-1/4	311

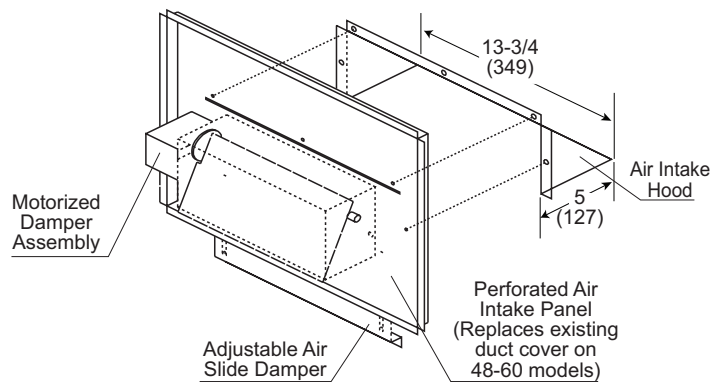


### FRESH AIR DAMPERS

**MANUAL**

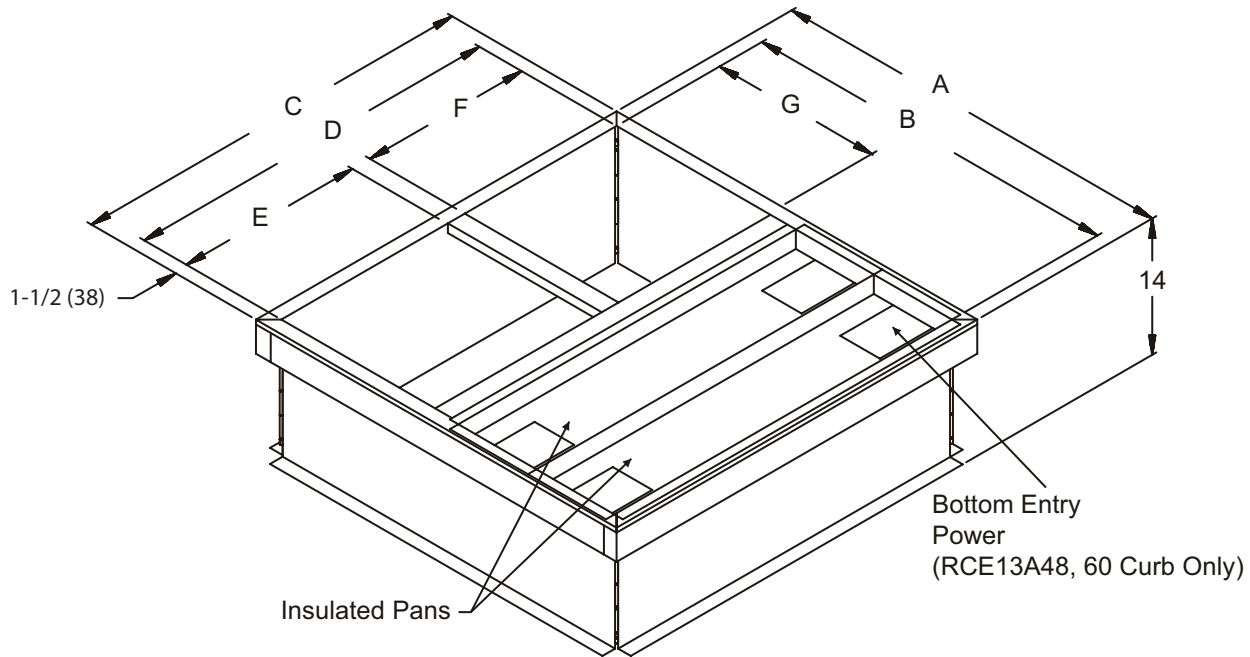


**MOTORIZED**



## Accessories Dimensions inches (mm)

### ROOF CURB



Model No.	A		B		C		D		E		F		G	
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
RCE13A36	43	1092	40	1016	43	1092	40	1016	18	457	20	508	19	483
RCE13A48 RCE13A60	47-1/8	1197	44-1/8	1121	52	1321	49	1245	23-1/2	597	23-1/2	597	19-1/2	495

### Revisions

Section	Page #	Description
Performance	2	Rating tables revised



All specifications and illustrations subject to change without notice and without incurring obligations.

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