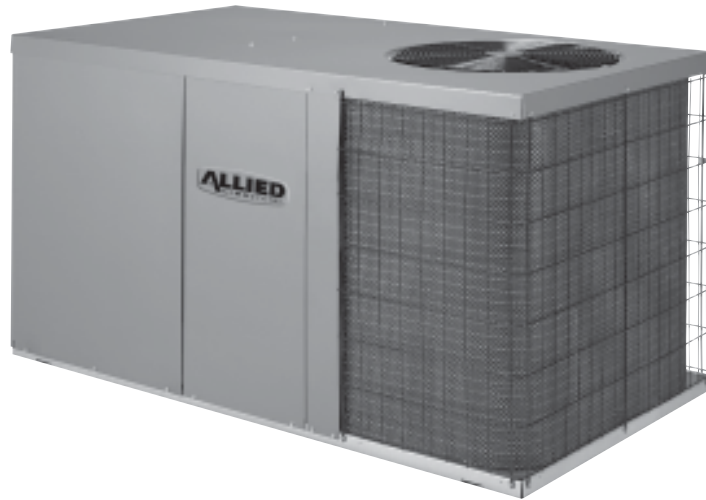




2SG13

3 Phase Gas/Electric Package

Bulletin No. SG13B036-048-060 -100 (7/06)



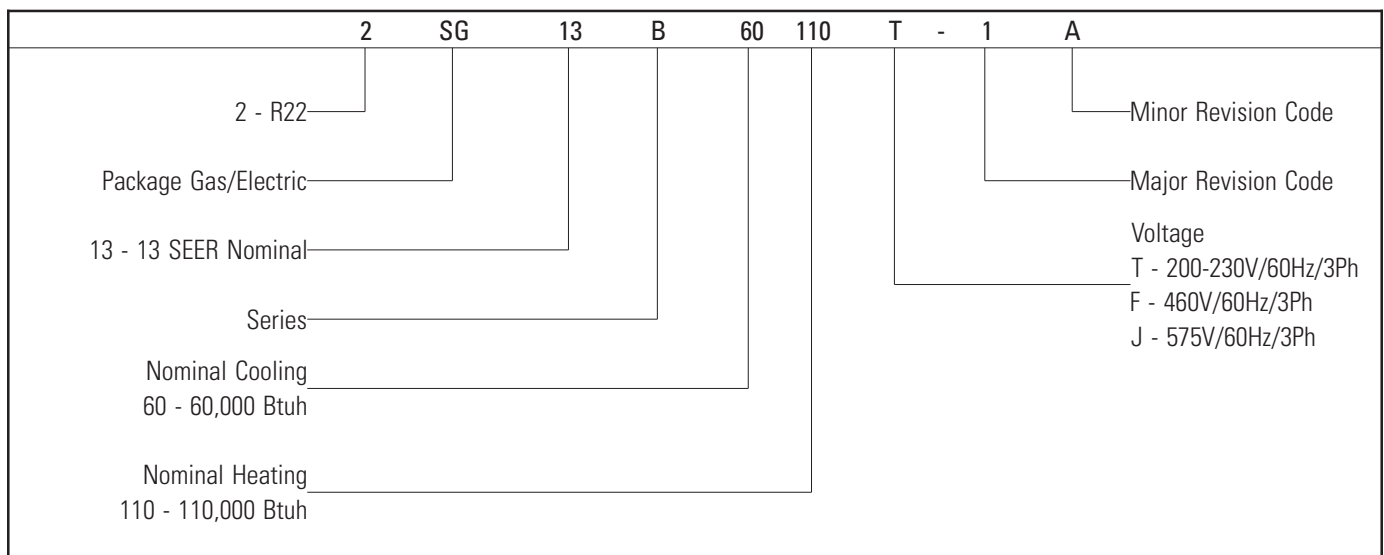
SEER - 13.00

3 to 5 Tons

Cooling Capacity - 36,000 to 55,500

Heating Capacity - 90,000 to 137,500

Model Number Identification



Features

Heavy duty, high efficiency scroll compressor

High quality condenser coil with copper tubing and enhanced fin for maximum heat transfer capacity

Insulated cabinet to minimize heat loss

Aluminized steel tubular heat exchanger

Wire guard coil protection

Weather protected heavy-duty condenser fan motor

One-piece no leak top design

Easy service access

Insulated blower compartment to reduce sound

Easy service split-ring design blower with quick plug in wiring

PSC prelubricated motor for low maintenance and maximum efficiency

Dynamically balanced blower wheel with resilient motor mounts for smooth, quiet operation

Solid state integrated blower control/ignition control board with L.E.D. diagnostics

Horizontal or down discharge

Factory pre-wired for economizer installation

Rectangular duct covers

Warranties: Limited 10 years on aluminized heat exchanger. Limited 5 years on compressor. Limited 1 year on all other covered components.

Physical and Electrical

Model	Voltage/Hz Phase	Voltage Range	Min. Cir Amp.	Max. Over- current Device (amps)	Compressor		Fan Motor			Indoor Blower		Exhaust Motor		Weight (lbs.)
					Rated Load (amps)	Locked Rotor (amps)	Rated Load (amps)	Rated HP	Nom. RPM	Rated Load (amps)	Rated HP	Rated Load (amps)	Rated HP	
2SG13B36090T	200-230/60/3	187-253	17.0	25	9.6	88	1.1	1/5	1075	2.2	1/2	0.7	1/30	415
2SG13B48(110,138)T	200-230/60/3	187-253	23.0	30	12.2	88	1.6	1/4	825	3.6	3/4	0.7	1/30	570
2SG13B60(110,138)T	200-230/60/3	187-253	26.0	35	14.7	91	1.6	1/4	825	3.6	3/4	0.7	1/30	595
2SG13B48(110,138)F	460/60/3	414-506	13.0	20	5.8	44	0.7	1/4	825	2.7	.9	0.7	1/30	570
2SG13B60(110,138)F	460/60/3	414-506	14.0	20	7.0	50	0.7	1/4	825	2.7	.9	0.7	1/30	595
2SG13B48(110,138)J	575/60/3	518-633	10.0	20	4.6	37	0.4	1/4	825	2.0	.9	0.7	1/30	570
2SG13B60(110,138)J	575/60/3	518-633	11.0	20	5.1	37	0.4	1/4	825	2.0	.9	0.7	1/30	595

Performance

Model	SEER	EER	Rated ARI Capacity ¹	Rated Sensible Capacity	CFM	Input Btuh	Output Btuh	AFUE	Temp. Rise °F
2SG13B36090T	13.00	11.50	36,000	27,000	1200	90,000	72,000	80%	35-65
2SG13B48110*	13.00	11.50	47,000	35,700	1600	110,000	88,000	80%	45-75
2SG13B48138*						137,500	110,000		45-75
2SG13B60110*	13.00	11.05	55,500	41,000	1800	110,000	88,000	80%	45-75
2SG13B60138*						137,500	110,000		45-75

¹Certified in accordance with Unitary Air Conditioner Certification Program, which is based on ARI Standard 210/240.

* - T, F or J

Blower Performance

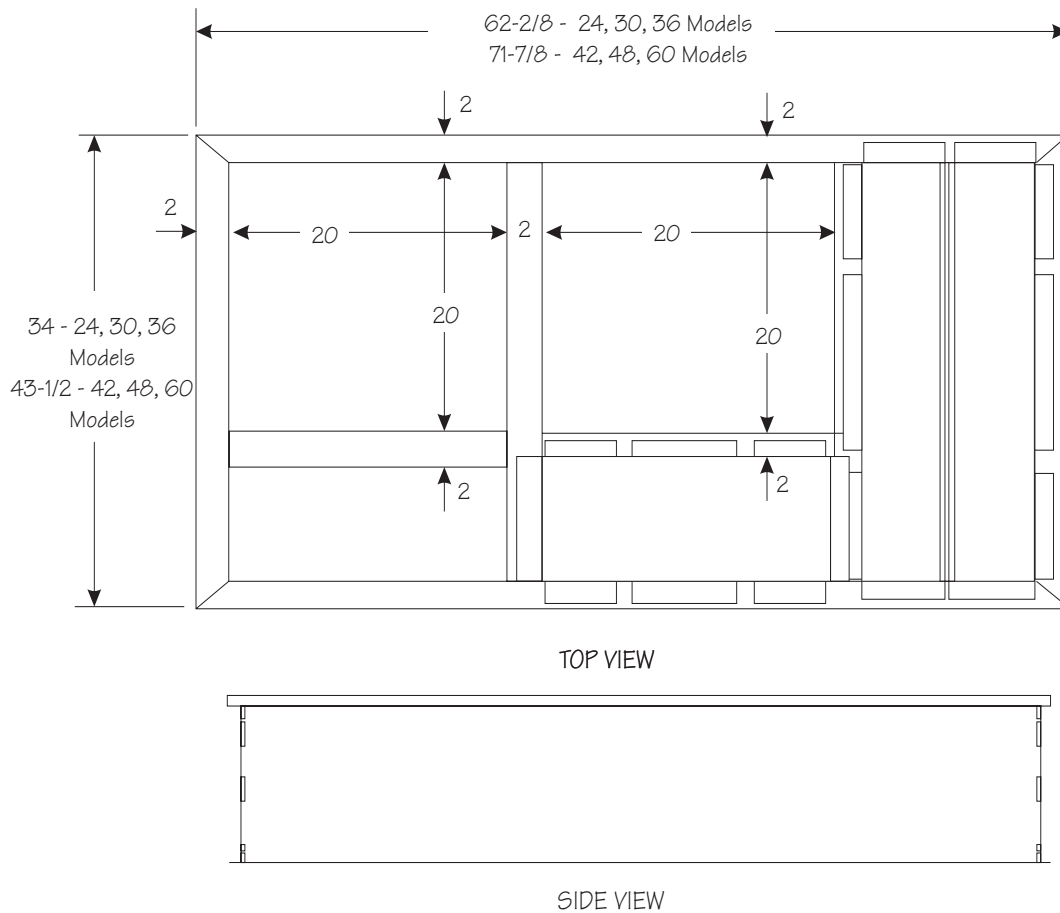
Model	Blower Speed	CFM @ ext. static pressure in in. w.g.						
		.20	.30	.40	.50	.60	.70	.80
2SG13B36	High	1510	1460	1400	1330	1250	1180	1100
	Med	1060	1050	1030	990	950	900	850
	Low	870	860	840	820	790	750	680
2SG13B48	High	2090	2000	1930	1820	1710	1590	1480
	Med	1820	1780	1730	1650	1570	1480	1370
	Low	1520	1480	1450	1440	1410	1360	1260
2SG13B60	High	2090	2000	1930	1820	1710	1590	1480
	Med	1820	1780	1730	1650	1570	1480	1370
	Low	1520	1480	1450	1440	1410	1360	1260

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
2SG13B36090	85/72	42,491	.63	2.78	39,299	.65	2.93	38,639	.68	3.28	35,847	.71	3.57	33,056	.74	3.89
	80/67	39,600	.70	2.51	37,897	.70	2.85	36,000	.75	3.22	32,439	.80	3.54	28,878	.85	3.85
	75/63	37,818	.71	2.48	36,040	.71	2.80	32,426	.79	3.17	29,046	.84	3.49	25,666	.89	3.80
2SG13B48(110,138)	85/72	55,474	.64	3.53	51,307	.66	3.72	50,445	.69	4.17	46,801	.72	4.54	43,156	.75	4.94
	80/67	51,700	.71	3.19	49,476	.71	3.63	47,000	.76	4.09	42,351	.81	4.49	37,702	.86	4.89
	75/63	49,374	.72	3.15	47,052	.71	3.56	42,334	.80	4.03	37,921	.85	4.43	33,509	.91	4.83
2SG13B60(110,138)	85/72	65,507	.63	4.33	60,586	.64	4.57	59,568	.67	5.12	55,265	.70	5.57	50,961	.73	6.06
	80/67	61,050	.70	3.92	58,424	.69	4.45	55,500	.74	5.02	50,010	.79	5.51	44,521	.83	6.00
	75/63	58,303	.71	3.86	55,562	.70	4.37	49,991	.78	4.94	44,780	.83	5.43	39,569	.88	5.93

Accessories

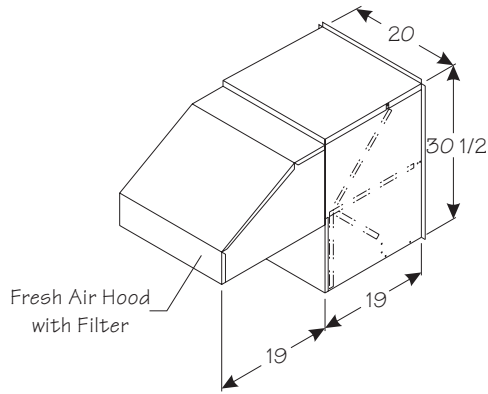
Cat Number	Description	Used With
92M51	Lifting Brackets	All 2SG13B
92M54	Internal Filter Kit	2SG13B 36
92M55	Internal Filter Kit	2SG13B 48, 60
92M57	LP Conversion Kit	2SG13B 90
92M58	LP Conversion Kit	2SG13B 110, and 138
92M99	Roof Curb 8 inch height	2SG13B 36
93M00	Roof Curb 14 inch height	2SG13B 36
93M01	Roof Curb 8 inch height	2SG13B 36
93M02	Roof Curb 14 inch height	2SG13B 48, 60
22W15	Downflow Modulating Economizer	All SG13B
22W16	Horizontal Modulating Economizer	All SG13B
22W17	Manual Outside Air Damper Small Base	2SG13B 36
1.851366	Manual Outside Air Damper Large Base	2SG13B 48, 60
1.851369	Motorized Outside Air Damper Small Base	2SG13B 36
1.851370	Motorized Outside Air Damper Large Base	2SG13B 48, 60



Accessories

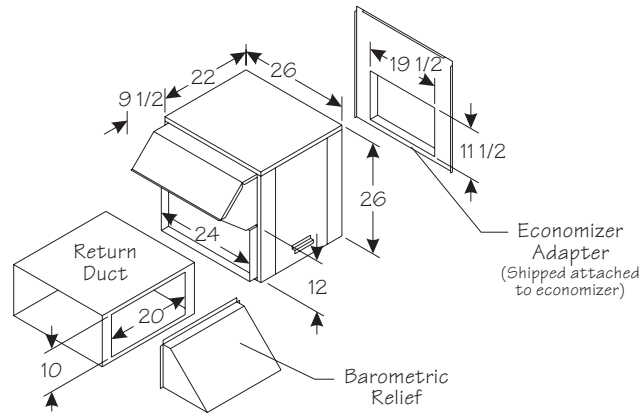
Economizer - Downflow Modulating with Relief

AECON817 (22W15)



Economizer - Horizontal Modulating

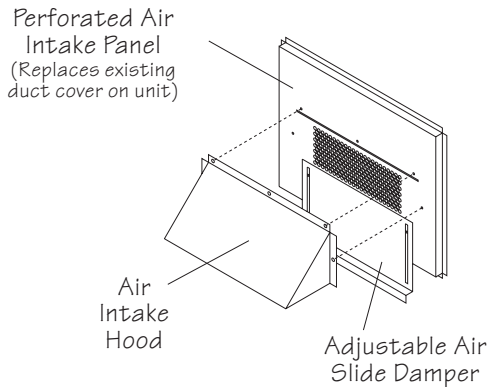
AECON818 (22W16)



0 - 25% Manual Outside Air Damper

ADMPR819 (22W17)

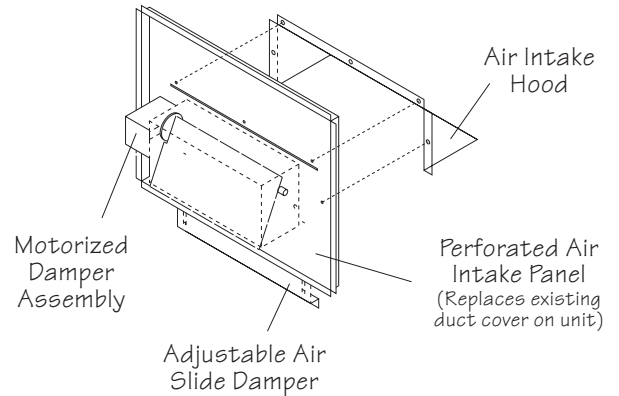
ADMPR820 (1.851366)



0 - 25% Motorized Outside Air Damper

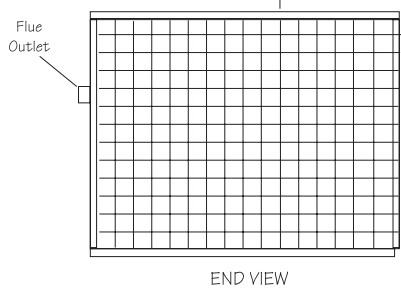
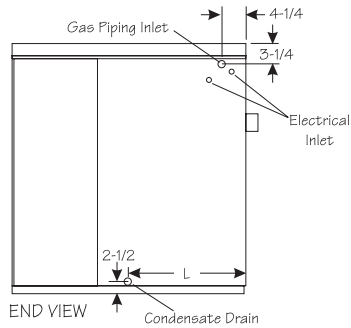
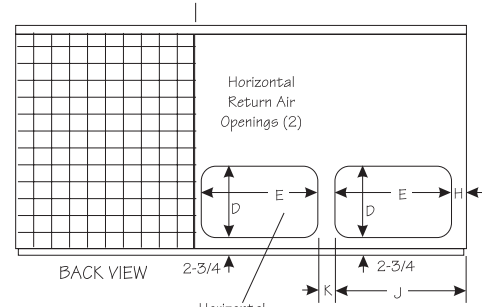
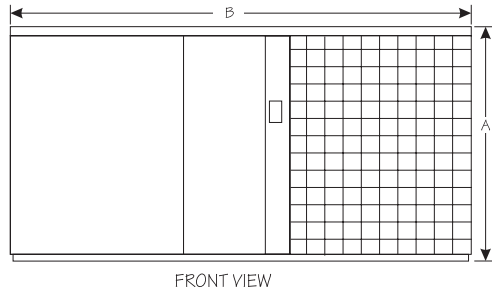
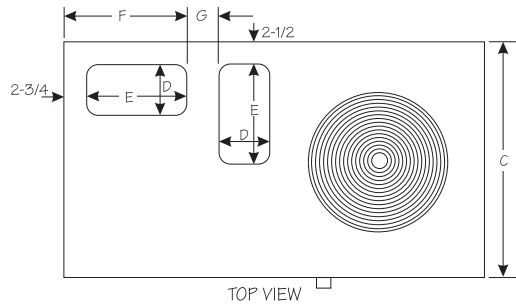
ADMPR821 (1.851369)

ADMPR822 (1.851370)



Dimensions (in.)

Model	A	B	C	D	E	F	G	H	J	K	L
2SG13B36	34 1/4	65 3/8	36 1/2	11 1/4	17 1/4	20	8 1/2	3	20 1/4	4 1/2	19
2SG13B48	38 1/4	75	46	11 1/4	19 1/4	22	9 1/4	3 1/4	22 1/4	4	16 1/4
2SG13B60											



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

Allied Air Enterprises