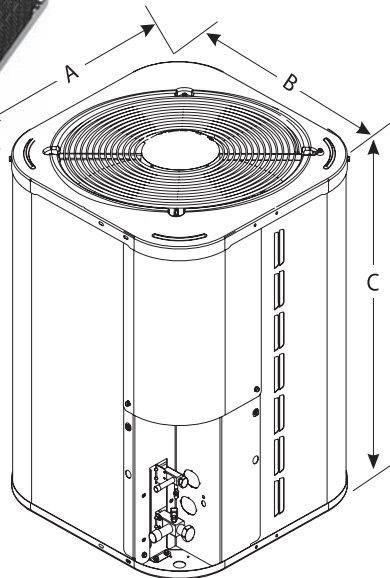


# 2AC13

# 3 Phase Split System Air Conditioner

2AC13-3-100 (09/08)



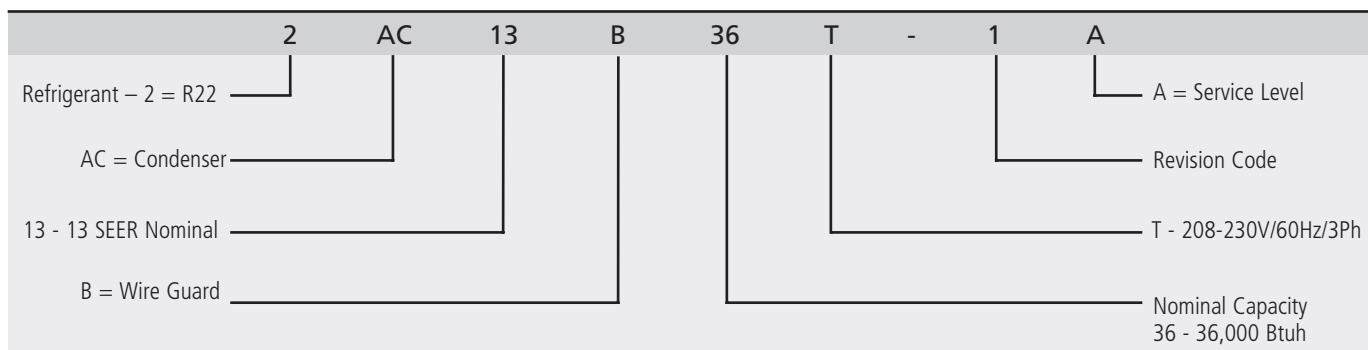
### Unit Dimensions & Sound Ratings

Model	Dimensions			Sound Ratings (dBa)
	A - width (in.)	B - depth (in.)	C - height (in.)	
2AC13B36	30	30	33-3/4	78
2AC13B48	30	30	33-3/4	80
2AC13B60	30	30	34-3/4	80

### Features:

- Designed to take advantage of 3 phase utility service for 208/230v applications.
- Durable compressors, with internal pressure relief valves and inherent thermal protection
- High quality condenser coil with copper tubing and enhanced louvered fin for maximum heat transfer capacity
- Top discharge allows warm air and sound to be directed up and away from the serviced facility which also facilitates compact applications on multiple levels
- All units run tested at the factory
- Standard wire guard coil protection
- Easy access to electrical panels, pre-wired for easy hook-up
- Hinged control panel allows simple access to internal components
- 45° service valves for easy hook-up and service
- Liquid line filter drier installed
- Charged for 15 feet of interconnecting tubing
- Warranties: 1 year parts; 5 year compressor

### Model Number Identification



## Physical & Electrical

Model	Voltage/Hz/Phase	Voltage Range	Min. Circuit Amp.	Max. Over current Device (amps)	Compressor		Fan Motor			Refrig. Connections		Refrig. Charge (oz.)	Weight (lbs.)
					Rated Load (amps)	Locked Rotor (amps)	Rated Load (amps)	Rated HP	Nom. RPM	Liquid OD (in.)	Vapor OD (in.)		
2AC13B36T	208-230/60/3	187 - 253	11.4	15	9.1	66	.7	1/10	1075	3/8	3/4	128	186
2AC13B48T	208-230/60/3	197 - 253	14.1	25	10.4	88	1.1	1/5	1075	3/8	7/8	131	204
2AC13B60T	208-230/60/3	197 - 253	15.7	30	11.7	88	1.1	1/5	1075	3/8	1-1/8	188	217

Note: Overcurrent protection device.

Factory charge adequate for 15 feet of line set. Adjust per Installation Instructions.

Required to meet rated performance. Unit is shipped with 7/8" connection.

## Cooling Performance with Evaporator Coils

Outdoor Model	Indoor Model		SEER	EER	Rated ARI Capacity <sup>1</sup>	Rated Sensible Capacity	CFM	Refrigerant Connection				Refrigerant Line Size		Indoor Metering Device	
	Piston or Field Installed TXV	Factory Installed TXV						Outdoor		Indoor		Suction	Liquid	Req'd Indoor <sup>2</sup> Orifice	Optional Field Installed Orifice
								Suction	Liquid	Suction	Liquid				
2AC13B36	E(C,H,M,U)1P29NA	E(C,H,M,U)2T29NA	13.00	10.50	34,600	26,600	1060	3/4	3/8	3/4	3/8	3/4	3/8	.076	A2TXV01
	E(C,H,M,U)1P36N(A,B,C)	E(C,H,M,U)2T36N(A,B,C)	13.00	11.00	34,600	26,600	1060	3/4	3/8	3/4	3/8	3/4	3/8	.076	A2TXV01
	E(C,H,M,U)1P43NB	E(C,H,M,U)2T43NBC	13.00	11.00	35,200	27,100	1060	3/4	3/8	7/8	3/8	7/8	3/8	.076	A2TXV01
2AC13B48	E(C,H,M,U)1P43NB	E(C,H,M,U)2T43NB	13.00	11.50	45,000	32,000	1600	7/8	3/8	7/8	3/8	7/8	3/8	.088	A2TXV02
	E(C,M,U)1P48N(B,C)	E(C,M,U)2T48N(B,C)	13.00	12.00	45,000	32,000	1600	7/8	3/8	7/8	3/8	7/8	3/8	.088	A2TXV02
	E(C,H,U)1P49NC	E(C,H,U)2T49NC	13.00	11.50	46,000	32,600	1600	7/8	3/8	7/8	3/8	7/8	3/8	.088	A2TXV02
	E(C,M,U)1P50NC	E(C,M,U)2T50NC	13.00	11.50	45,000	32,000	1600	7/8	3/8	7/8	3/8	7/8	3/8	.088	A2TXV02
	E(C,U)1P60ND	E(C,U)2T60ND	13.00	11.50	45,000	32,000	1600	7/8	3/8	7/8	3/8	7/8	3/8	.088	A2TXV02
	E(C,H,U)1P62NC	E(C,H,U)2T62NC	13.00	12.00	45,500	32,300	1600	7/8	3/8	7/8	3/8	7/8	3/8	.088	A2TXV02
	E(C,H,U)1P62ND	E(C,H,U)2T62ND	13.00	12.00	45,500	32,300	1600	7/8	3/8	7/8	3/8	7/8	3/8	.088	A2TXV02
2AC13B60	E(C,H,U)1P49NC	E(C,H,U)2T49NC	13.00	11.00	53,000	38,600	1800	7/8	3/8	7/8	3/8	1-1/8	3/8	.098	A2TXV02
	EH1P49ND	---	13.00	11.00	53,000	38,600	1800	7/8	3/8	7/8	3/8	1-1/8	3/8	.098	A2TXV02
	E(C,H,U)1P62NC	E(C,H,U)2T62NC	13.00	11.50	54,000	39,400	1800	7/8	3/8	7/8	3/8	1-1/8	3/8	.098	A2TXV02
	E(C,H,U)1P62ND	E(C,H,U)2T62ND	13.00	11.00	53,000	38,600	1800	7/8	3/8	7/8	3/8	1-1/8	3/8	.098	A2TXV02

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

<sup>2</sup> Required to achieve ARI rating.

A blower time delay is required to achieve ARI rating.

## Cooling Performance with Air Handlers and Furnaces (36, 48, 60)

Outdoor Model	Indoor Model		Variable Speed Furnace	SEER	EER	Rated ARI Capacity <sup>1</sup>	Rated Sensible Capacity	CFM	Refrigerant Connection				Refrigerant Line Size		Indoor Metering Device	
	Piston or Field Installed TXV	Factory Installed TXV							Outdoor		Indoor		Suction	Liquid	Req'd Indoor <sup>2</sup> Orifice	Optional Field Installed Orifice
									Suction	Liquid	Suction	Liquid				
2AC13B36	RBCS2M36C****P	RBCS2M36C****T	---	13.00	11.50	35,000	27,000	1060	3/4	3/8	3/4	3/8	3/4	3/8	.076	A2TXV01
	RBCS2M36V****P	---	---	14.00	12.00	35,600	27,400	1060	3/4	3/8	3/4	3/8	3/4	3/8	.076	A2TXV01
	E(C,M,U)1P36NA	E(C,M,U)2T36NA	MPGAV050	13.50	11.50	35,000	27,000	1060	3/4	3/8	3/4	3/8	3/4	3/8	.076	A2TXV01
	E(C,M,U)1P36NA	E(C,M,U)2T36NA	MPGAV075	13.50	11.50	35,000	27,000	1060	3/4	3/8	3/4	3/8	3/4	3/8	.076	A2TXV01
	E(C,H,M,U)1P36NB	E(C,H,M,U)2T36NB	CMPEV100	13.50	11.50	34,800	26,800	1060	3/4	3/8	3/4	3/8	3/4	3/8	.076	A2TXV01
	E(C,H,M,U)1P36NB	E(C,H,M,U)2T36NB	MPGAV100	13.50	12.00	35,200	27,100	1060	3/4	3/8	3/4	3/8	3/4	3/8	.076	A2TXV01
	E(C,H,M,U)1P43NB	E(C,H,M,U)2T36NB	CMPEV0100	13.50	12.00	35,800	27,600	1060	3/4	3/8	7/8	3/8	3/4	3/8	.076	A2TXV01
	E(C,H,M,U)1P43NB	E(C,H,M,U)2T36NB	MPGAV100	13.50	12.00	35,800	27,600	1060	3/4	3/8	7/8	3/8	3/4	3/8	.076	A2TXV01
2AC13B48	RBCS2M48C****P	RBCS2M48C****T	---	13.00	12.00	45,000	32,0 <sup>00</sup>	1600	7/8	3/8	7/8	3/8	3/4	3/8	.088	A2TXV02
	RBCS2M48V****P	---	---	13.50	12.00	45,800	32,000	1600	7/8	3/8	7/8	3/8	3/4	3/8	.088	A2TXV02
	E(C,H,U)1P49NC	E(C,M,U)2T30NB	MPGAV125	14.00	12.00	46,000	32,600	1600	7/8	3/8	7/8	3/8	3/4	3/8	.088	A2TXV02
	E(C,M,U)1P50NC	E(C,M,U)2T30NB	MPGAV125	13.50	12.00	45,000	32,000	1600	7/8	3/8	7/8	3/8	3/4	3/8	.088	A2TXV02
	E(C,M,U)1P62NC	E(C,M,U)2T36NA	MPGAV125	14.00	12.00	45,500	32,200	1600	7/8	3/8	7/8	3/8	3/4	3/8	.088	A2TXV02
2AC13B60	RBCS260C****P	RBCS260C****T	---	13.00	11.00	52,000	38,000	1800	7/8	3/8	7/8	3/8	1-1/8	3/8	.098	A2TXV02
	RBCS2M60V****P	---	---	13.50	11.50	52,000	38,000	1800	7/8	3/8	7/8	3/8	1-1/8	3/8	.098	A2TXV02
	E(C,M,U)1P49NC	E(C,H,U)2T49NC	MPGAV125	13.50	11.00	53,000	38,600	1800	7/8	3/8	7/8	3/8	1-1/8	3/8	.098	A2TXV02
	E(C,H,M,U)1P62NC	E(C,H,U)2T62NC	MPGAV125	13.50	11.50	54,000	39,400	1800	7/8	3/8	7/8	3/8	1-1/8	3/8	.098	A2TXV02

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

<sup>2</sup> Required to achieve ARI rating.

A blower time delay is required to achieve ARI rating.

## Cooling Performance with Extended Ratings

Outdoor Model	Indoor 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
2AC13B36P	E*1P36	75/63	34,000	.70	2.85	33,000	.75	3.02	32,000	.77	3.09	30,000	.80	3.15	28,000	.81	3.20
		80/67	37,000	.66	2.89	35,000	.70	3.07	34,000	.72	3.15	33,000	.75	3.21	30,000	.75	3.27
		85/71	39,000	.64	2.94	37,000	.68	3.13	37,000	.70	3.21	35,000	.73	3.28	32,000	.73	3.34
2AC13B48P	E*1P48	75/63	45,000	.69	3.61	43,000	.73	3.78	42,000	.76	3.85	40,000	.79	3.91	37,000	.79	3.96
		80/67	48,000	.65	3.65	46,000	.69	3.83	45,000	.71	3.91	42,000	.74	3.97	40,000	.74	4.03
		85/71	51,000	.63	3.70	49,000	.67	3.89	47,000	.69	3.97	45,000	.72	4.04	42,000	.72	4.10
2AC13B60P	E*1P62	75/63	53,000	.72	4.40	51,000	.77	4.57	50,000	.79	4.64	48,000	.82	4.70	44,000	.83	4.75
		80/67	58,000	.67	4.44	56,000	.72	4.62	54,000	.74	4.70	51,000	.77	4.76	47,000	.77	4.82
		85/71	61,000	.65	4.49	59,000	.70	4.68	57,000	.72	4.76	54,000	.75	4.83	50,000	.75	4.89

A blower time delay is required to achieve ARI rating. Which is part of these air handler and furnace controls.

## Accessories

Description	Where Used	Catalog #
Hard Start Kit	2AC13B36	12W16
Low Pressure Switch	2AC13B36, 48, 60	14W08
High Pressure Switch	2AC13B36	14W09
High Pressure Switch	2AC13B48, 60	Factory installed
Short cycle protection	All models	Factory Installed
Crankcase Heater	2AC13B36	14W05
Crankcase Heater	2AC13B48, 60	Factory installed
Compressor Sound Blanket	2AC13B36	14W02
Compressor Sound Blanket	2AC13B48, 60	14W01
TXV Kit	2AC13B36	A2TXV01
TXV Kit	2AC13B48, 60	A2TXV02

## Installation Clearance

**Notes:**

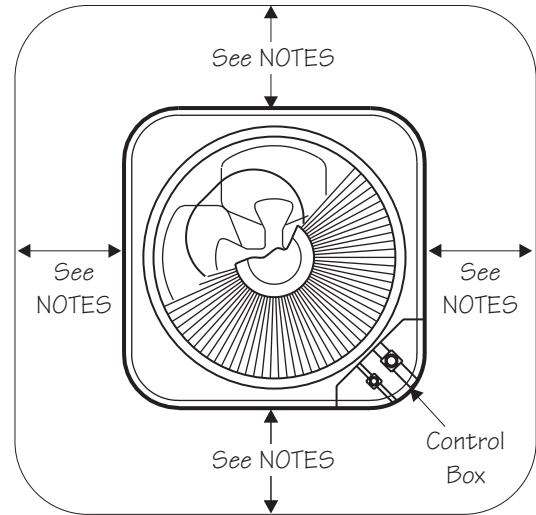
Service clearance of 30 inches must be maintained on one of the sides adjacent to the control box.

Clearance to one of the other three sides must be 36 inches.

Clearance to one of the remaining two sides may be 12 inches and the final side may be 6 inches.

A clearance of 24 inches must be maintained between two units.

48 inch clearance required for top of unit.



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

