

Heating & Air Conditioning **Amana**[®]

LASTS AND LASTS AND LASTS.[™]

PRODUCT SPECIFICATIONS



13 SEER

Cooling Capacity:
18,000 - 57,000 BTU/h



ASC13

Split System Air Conditioner

The Amana[®] brand ASC13 Series Air Conditioners feature energy efficiencies and operating sound levels that are among the best in the heating & cooling industry. With a 13 SEER rating, the ASC13 will help reduce energy consumption throughout the life of the system.

Standard Features

- R-22 refrigerant
- Energy-efficient Copeland[®] scroll compressor
- High-density foam compressor sound blanket
- Copeland[®] ComfortAlert diagnostics
- Low-pressure switch
- Fully charged for 15' of tubing length
- Factory-installed filter dryer
- Two-speed condenser fan motor
- Copper tube/enhanced aluminum fin coil
- Sweat connection service valves with easy access to gauge ports
- 13 SEER performance with flowrate expansion device
- ARI Certified
- ETL Certified

Cabinet Features

- Unique Amana[®] brand sound control top design
- Wire fan discharge grille
- Steel louver coil guard
- Baked-on powder-paint finish
- Rust-resistant coated screws
- Compact footprint
- Top and side maintenance access
- Single-panel access to controls with space provided for field-installed accessories
- When properly anchored, meets the 2001 Florida Building Code unit integrity requirements for hurricane-type winds

Specification Sheet

NOMENCLATURE

A	S	C	1	3	0	3	6	1	A	A
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Brand Name
A = Amana

Product Category
S = Split

Unit Type
C = Condenser R-22
X = Condenser R-410A
H = Heat Pump R-22
Z = Heat Pump R-410A

SEER
13 = 13 SEER
14 = 14 SEER
16 = 16 SEER
18 = 18 SEER

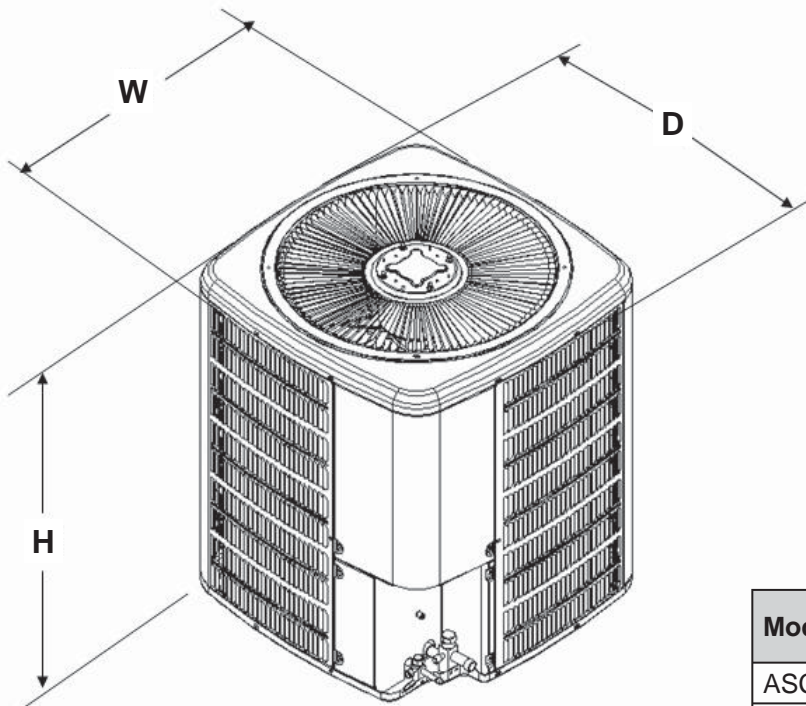
Nominal Capacity
018 = 1.5 tons 048 = 4 tons
024 = 2 tons 060 = 5 tons
036 = 3 tons
042 = 3.5 tons

Electrical
1 = 208/230 V, 1 Phase, 60 Hz

Major Revision
A = Initial Release

Minor Revision
(not used for order entry or inventory management)

DIMENSIONS



Model	Dimensions W x D x H
ASC130181A	26 x 26 x 29 $\frac{3}{4}$
ASC130241A	26 x 26 x 34 $\frac{3}{4}$
ASC130301A	29 x 29 x 32 $\frac{1}{4}$
ASC130361A	29 x 29 x 34 $\frac{3}{4}$
ASC130421A	29 x 29 x 34 $\frac{1}{4}$
ASC130481A	29 x 29 x 38 $\frac{1}{4}$
ASC130601A	35 $\frac{1}{2}$ x 35 $\frac{1}{2}$ x 38 $\frac{1}{4}$

SPECIFICATIONS

	ASC13-0181A	ASC13-0241A	ASC13-0301A	ASC13-0361A	ASC13-0421A	ASC13-0481A	ASC13-0601B
Cooling Capacity							
Nominal Cooling (BTU/h)	18,000	24,000	28,000	35,000	41,000	45,500	57,000
Compressor							
RLA	7.7	10.4	12.2	13.4	14.7	17.9	24.3
LRA	40.3	54	63	73	77	104	148
Condenser Fan Motor							
Horsepower (RPM)	1/6	1/6	1/6	1/6	1/4	1/4	1/6
FLA	0.9	0.9	0.9	0.9	1.5	1.5	1.1
Refrigeration System							
Liquid Valve Size ("O.D.)*	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"
Suction Valve Size ("O.D.)*	3/4"	3/4"	3/4"	3/4"	7/8"	7/8"	7/8"
Valve Connection Type	Sweat	Sweat	Sweat	Sweat	Sweat	Sweat	Sweat
Refrigerant Charge	95	102	123	125	143	158	178
Shipped with Orifice Size	0.055	0.062	0.065	0.071	0.078	0.082	0.093
Electrical Data							
Voltage	208/230	208/230	208/230	208/230	208/230	208/230	208/230
Hz / Phase	60/1	60/1	60/1	60/1	60/1	60/1	60/1
Minimum Circuit Ampacity ¹	10.5	14	16.1	17.7	19.9	23.9	31.5
Maximum Overcurrent Device ²	15	20	20	30	30	40	50
Min / Max Volts	197/253	197/253	197/253	197/253	197/253	197/253	197/253
	1/2" or 3/4"	1/2" or 3/4"	1/2" or 3/4"	1/2" or 3/4"	1/2" or 3/4"	1/2" or 3/4"	1/2" or 3/4"
Ship Weight (lbs)	165	180	225	240	250	260	295

* Line size up to 35' in equivalent line length

1) Wire size should be determined in accordance with National Electrical Codes; extensive wire runs will require larger wire sizes

2) May use fuses or HACR-type circuit breakers of the same size as noted

Specification Sheet

PERFORMANCE RATINGS

Condenser	Evaporator Model	Total BTU/h	Sensible BTU/h	SEER ¹	EER ²	Decibel
ASC130181A*	AEPT030-00*-1* / AEPF18301A*	18,600	13,800	14	12.2	76
	ARPT032-00*-1* / ARPF18241A*	18,000	13,300	13	11.5	
	ARUF032-00*-1* / ARUF18241A*	18,000	13,300	13	11.5	
	ARPF036-00B-1* / ADPF18241A*	18,000	13,300	13	11.5	
	CA*F030*2* / CA*F1824*6A* + EEP	18,000	13,300	13	11.5	
	CA*F030*2* / CA*F1824*6A* + A*V80704B**	18,000	13,300	14	12.2	
	CA*F030*2* / CA*F1824*6A* + A*V90704C**	18,000	13,300	14	12.2	
	CA*F030*2* / CA*F1824*6A* + A*V90453B**	18,000	13,300	14	12.2	
	CHPF030A2* / CHPF1824A6A* + EEP	18,000	13,300	13	11.5	
	CHPF042B2* / CHPF2430B6A* + A*V80704B**	18,000	13,300	14	12.2	
	CHPF042B2* / CHPF2430B6A* + A*V90453B**	18,600	13,300	14	12.2	
	H36F / CSCF1824N6A* + EEP	18,000	13,300	13	11.5	
	H36F / CSCF1824N6A* + A*V80704B**	18,000	13,300	14	12.2	
	H36F / CSCF1824N6A* + A*V90704C**	18,000	13,300	14	12.2	
	H36F / CSCF1824N6A* + A*V90453B**	18,000	13,300	14	12.2	
	CA*F030*2* / CA*F1824*6A* + MBE1200	18,000	13,300	14	12.2	
ASC130241A*	AEPT030-00*-1* / AEPF18301A*	24,000	17,000	14	12.2	76
	ARPT032-00*-1* / ARPF18241A*	23,400	16,600	13	11.5	
	ARPF036-00B-1* / ADPF18241A*	23,400	16,600	13	11.5	
	ARUF032-00*-1* / ARUF18241A*	23,400	16,600	13	11.5	
	CA*F030*2* / CA*F1824*6A* + EEP	23,400	16,600	13	11.5	
	CA*F030*2* / CA*F1824*6A* + A*V80704B**	23,400	16,600	14	12.2	
	CA*F030*2* / CA*F1824*6A* + A*V90704C**	23,400	16,600	14	12.2	
	CA*F030*2* / CA*F1824*6A* + A*V90453B**	23,400	16,600	14	12.2	
	CHPF030A2* / CHPF1824A6A* + EEP	23,400	16,600	13	11.5	
	CHPF042B2* / CHPF2430B6A* + A*V80704B**	24,000	17,400	14	12.2	
	CHPF042B2* / CHPF2430B6A* + A*V90453B**	24,000	17,400	14	12.2	
	H36F / CSCF1824N6A* + EEP	23,400	16,600	13	11.5	
	H36F / CSCF1824N6A* + A*V80704B**	23,400	16,600	14	12.2	
	H36F / CSCF1824N6A* + A*V90704C**	23,400	16,600	14	12.2	
	H36F / CSCF1824N6A* + A*V90453B**	23,400	16,600	14	12.2	
	CA*F030*2* / CA*F1824*6A* + MBE1200	23,400	16,600	14	12.2	

PERFORMANCE RATINGS (CONT.)

Condenser	Evaporator Model	Total BTU/h	Sensible BTU/h	SEER ¹	EER ²	Decibel
ASC130301A*	AEPT030-00*-1* / AEPF18301A*	28,000	20,800	14	12.2	76
	ARPT042-00*-1* / ARPF30301A*	28,000	20,800	13	11.5	
	ARPF048-00B-1* / ADPF30421A*	28,000	20,800	13	11.5	
	ARUF042-00*-1* / ARUF30301A*	28,000	20,800	13	11.5	
	CA*F037*2* / CA*F3030*6A*+EEP	28,000	20,800	13	11.5	
	CA*F037*2* / CA*F3030*6A* + A*V80704BXA	28,000	20,800	14	12.2	
	CA*F037*2* / CA*F3030*6A* + A*V90704CXA	28,000	20,800	14	12.2	
	CA*F037*2* / CA*F3030*6A* + A*V950453BXA	28,000	20,800	14	12.2	
	CA*F037*2* / CA*F3030*6A* +A*V950704CXA	28,000	20,800	14	12.2	
	CHPF042B2* / CHPF2430B6A*+EEP	28,000	20,800	13	11.5	
	CHPF042B2* / CHPF2430B6A* + A*V80704B**	28,400	21,600	14	12.2	
	CHPF042B2* / CHPF2430B6A* + A*V950453B**	28,400	21,600	14	12.2	
	H49F / CSCF3036N6A*+EEP	28,000	20,800	13	11.5	
	H49F / CSCF3036N6A* + A*V80704B**	28,000	20,800	14	12.2	
	H49F / CSCF3036N6A* + A*V90704C**	28,000	20,800	14	12.2	
	H49F / CSCF3036N6A* + A*V950453B**	28,000	20,800	14	12.2	
CA*F037*2* / CA*F3030*6A* + MBE1200	28,000	20,800	14	12.2		
ASC130361A*	AEPT036-00*-1* / AEPF30361A*	35,000	25,500	14	12.2	76
	ARPT049-00*-1* / ARPF36421A*	35,000	25,500	13	11.5	
	ARPF048-00B-1* / ADPF30421A*	35,000	25,500	13	11.5	
	ARUF049-00*-1* / ARUF36421A*	35,000	25,500	13	11.5	
	CA*F048*2* / CA*F3636*6A*+EEP	35,000	25,500	13	11.5	
	CA*F048*2* / CA*F3636*6A* + A*V80704B**	35,000	25,500	14	12.2	
	CA*F048*2* / CA*F3636*6A* +A*V80905C**	35,000	25,500	14	12.2	
	CA*F048*2* / CA*F3636*6A* + A*V90905D**	35,000	25,500	14	12.2	
	CA*F048*2* / CA*F3636*6A* + A*V91155D**	35,000	25,500	14	12.2	
	CHPF3636B6A*+EEP	35,000	25,500	13	11.5	
	CHPF3642C6A*+EEP	35,000	25,500	13	11.5	
	CHPF048D2* / CHPF3642DA*+EEP	35,000	25,500	13	11.5	
	CHPF048D2* / CHPF3642DA* + A*V80704B**	35,000	25,500	14	12.2	
	CHPF048D2* / CHPF3642DA* +A*V80905C**	35,000	25,500	14	12.2	
	CHPF048D2* / CHPF3642DA* + A*V90905D**	35,000	25,500	14	12.2	
	CHPF048D2* / CHPF3642DA* + A*V91155D**	35,000	25,500	14	12.2	
	H49F / CSCF3036N6A*+EEP	35,000	25,500	13	11.5	
	H49F / CSCF3036N6A* + A*V80704B**	35,000	25,500	14	12.2	
	H49F / CSCF3036N6A* + A*V80905C**	35,000	25,500	14	12.2	
	H49F / CSCF3036N6A* + A*V90905D**	35,000	25,500	14	12.2	
H49F / CSCF3036N6A* + A*V91155D**	35,000	25,500	14	12.2		
CA*F048*2* / CA*F3636*6A* + MBE1600	35,000	25,500	14	12.2		

Specification Sheet

PERFORMANCE RATINGS (CONT.)

Condenser	Evaporator Model	Total BTU/h	Sensible BTU/h	SEER ¹	EER ²	Decibel
ASC130421A*	AEPT060-00*-1* / AEPF42601A*	41,000	30,800	14	12.2	76
	ARPT049-00*-1* / ARPF36421A*	40,500	30,400	13	11.5	
	ARPF048-00B-1* / ADPF30421A*	40,500	30,400	13	11.5	
	ARUF049-00*-1* / ARUF36421A*	40,500	30,400	13	11.5	
	CA*F060*2* / CA*F3642*6A*+EEP	40,500	30,400	13	11.5	
	CA*F061*2* / CA*F4860*6A* + A*V80905C**	41,500	31,000	14	12.2	
	CA*F061*2* / CA*F4860*6A* + A*V81155C**	41,500	31,000	14	12.2	
	CA*F061*2* / CA*F4860*6A* + A*V90905D**	41,500	31,000	13.5	11.8	
	CA*F061*2* / CA*F4860*6A* + A*V91155D**	41,500	31,000	13.5	11.8	
	CHPF048D2* / CHPF3642DA*+EEP	40,500	30,400	13	11.5	
	CHPF048C4* / CHPF3642C6A*+EEP	40,500	30,400	13	11.5	
	CHPF060D2* / CHPF4860*6A* + A*V81155C**	41,500	31,000	14	12.2	
	CHPF060D2* / CHPF4860*6A* + A*V91155D**	41,500	31,000	13.5	11.8	
	H60F / CSCF3642N6A*+EEP	41,500	31,000	13	11.5	
	H61F / CSCF4860N6A* + A*V81155C**	41,500	31,000	14	12.2	
	H61F / CSCF4860N6A* + A*V91155D**	41,500	31,000	13.5	11.8	
	CA*F060*2* / CA*F3642*6A* + MBE1600	40,500	30,400	14	12.2	
ASC130481A*	AEPT060-00*-1* / AEPF42601A*	45,500	33,800	14	12.2	76
	ARPT061-00*-1* / ARPF48601A*	45,500	33,800	13	11.5	
	ARPF060-00B-1* / ADPF48601A*	45,500	33,800	13	11.5	
	ARUF061-00*-1* / ARUF48601A*	45,500	33,800	13	11.5	
	CA*F061*2* / CA*F4860*6A*+ EEP	45,500	33,800	13	11.5	
	CA*F061*2* / CA*F4860*6A* + A*V80905C**	45,500	33,800	13.5	11.8	
	CA*F061*2* / CA*F4860*6A* + A*V81155C**	45,500	33,800	13.5	11.8	
	CA*F061*2* / CA*F4860*6A* + A*V90905D**	45,500	33,800	13.5	11.8	
	CA*F061*2* / CA*F4860*6A* + A*V91155D**	45,500	33,800	13.5	11.8	
	CHPF060D2* / CHPF4860DA* + EEP	45,500	33,800	13	11.5	
	CHPF060D2* / CHPF4860DA* + A*V80905C**	45,500	33,800	13.5	11.8	
	CHPF060D2* / CHPF4860DA* + A*V81155C**	45,500	33,800	13.5	11.8	
	CHPF060D2* / CHPF4860DA* + A*V90905D**	45,500	33,800	13.5	11.8	
	CHPF060D2* / CHPF4860DA* + A*V91155D**	45,500	33,800	13.5	11.8	
	H61F / CSCF4860N6A*+EEP	45,500	33,800	13	11.5	
	H61F / CSCF4860N6A* + A*V80905C**	45,500	33,800	13.5	11.8	
	H61F / CSCF4860N6A* + A*V81155C**	45,500	33,800	13.5	11.8	
	H61F / CSCF4860N6A* + A*V90905D**	45,500	33,800	13.5	11.8	
	H61F / CSCF4860N6A* + A*V91155D**	45,500	33,800	13.5	11.8	
CA*F061*2* / CA*F4860*6A* + MBE2000	45,500	33,800	14	12.2		

PERFORMANCE RATINGS (CONT.)

Condenser	Evaporator Model	Total BTU/h	Sensible BTU/h	SEER ¹	EER ²	Decibel
ASC130601B*	AEPT060-00*-1* / AEPF42601A*	57,000	41,000	13.5	11.9	77
	ARPT061-00*-1* / ARPF48601A*	57,000	41,000	13	11.5	
	ARPF060-00B-1* / ADPF48601A*	57,000	41,000	13	11.5	
	ARUF061-00*-1* / ARUF48601A*	57,000	41,000	13	11.5	
	CA*F061*2* / CA*F4860*6*+EEP	57,000	41,000	13	11.5	
	CA*F061*2* / CA*F4860*6A* + A*V80905C**	57,000	41,000	13.2	11.7	
	CA*F061*2* / CA*F4860*6A* + A*V81155C**	57,000	41,000	13.2	11.7	
	CA*F061*2* / CA*F4860*6A* + A*V90905D**	57,000	41,000	13.2	11.7	
	CHPF060D2* / CHPF4860D*+EEP	57,000	41,000	13	11.5	
	CHPF060D2* / CHPF4860DA* + A*V80905C**	57,000	41,000	13.2	11.7	
	CHPF060D2* / CHPF4860DA* + A*V81155C**	57,000	41,000	13.2	11.7	
	CHPF060D2* / CHPF4860DA* + A*V90905D**	57,000	41,000	13.2	11.7	
	H61F / CSCF4860N6*+EEP	56,000	40,400	13	11.5	
	H61F / CSCF4860N6A* + A*V80905C**	56,000	40,400	13.2	11.7	
	H61F / CSCF4860N6A* + A*V81155C**	56,000	40,400	13.2	11.7	
	H61F / CSCF4860N6A* + A*V90905D**	56,000	40,400	13.2	11.7	
	CA*F061*2* / CA*F4860*6A* + MBE2000	57,000	41,000	13.5	11.8	

NOTES:

- 1) Seasonal Energy Efficiency Ratio
- 2) Energy Efficiency Ratio @ 80 °F/67 °F Inside - 95 °F
- 3) When matching the outdoor unit to the indoor unit, use the piston supplied with the outdoor unit or that specified on the piston kit chart supplied with the indoor unit.
- 4) Note: XX of a model designates Electric Heat Kilo watts.
- 5) EEP - Order from Service Dept. Part No. B13707-38 or new Solid State Board B13707-35S.
Part No. B13707-38 is not interchangeable with B13707-35S.
The Goodman Gas Furnace contains the EEP cooling time delay.

Specification Sheet

ACCESSORIES

Model	Description	ASC13-018	ASC13-024	ASC13-030	ASC13-036	ASC13-042	ASC13-048	ASC13-060
ASC01	Anti-Short Cycle Kit	X	X	X	X	X	X	X
CSR-U-1	Hard-start Kit	X	X	X	X			
CSR-U-2	Hard-start Kit				X	X	X	X
CSR-U-3	Hard-start Kit						X	X
FSK01A ¹	Freeze Protection Kit	X	X	X	X	X	X	X
OT18-60A ²	Outdoor Thermostat	X	X	X	X	X	X	X
TX3N2	TXV Kit	X	X	X	X			
TX5N2	TXV Kit					X	X	X

1. Installed on indoor coil

2. Required for heat pump applications where ambient temperatures fall below 0 °F with 50% or higher relative humidity.

THERMOSTATS

	M038101	1213402	1213401	1213408
Manual/Auto	Manual	Manual	Manual	Manual or Auto
Programmable	No	No	Yes	Yes
Cool	1	1	1	1
Heat	1	1	1	1
Emergency Electric Heat	No	No	No	Yes
Shape	Rect. / Vertical	Rectangular	Rectangular	Rectangular
Battery Powered	No	Yes	Yes	No
24V Powered w/Battery Back-up	No	No	No	Yes
For Use with	Gas Heat, Electric Heat/Cool	Gas Heat, Electric Heat/Cool	Gas Heat, Electric Heat/Cool	Gas Heat, Electric Heat/Cool
Color	Beige	White	White	White



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