

SoftSound™

1000+

# Comfortmaker®

Air Conditioning & Heating

## 10+ SEER - AIR CONDITIONER



Representative photo only, some models may vary in appearance.

### 1 1/2 THRU 5 TONS SPLIT SYSTEM FEATURES

- High efficiency scroll compressors on all models
- Copper tube / aluminum fin coil
- Prepainted condenser fins
- Top air discharge for quieter operation
- G-90 Galvanized steel cabinet with integral base rails
- Triple step paint process
- Coated inlet and discharge grilles ruggedly built for enhanced coil protection
- Numerous service friendly features
- Service valves on all models with 3-1/2" stubs
- External refrigerant connections
- Easy side access sloped control panel
- Fan motor in-line disconnect plug
- Factory charged with R-22, condenser plus 25 Ft. lines
- 5 Year parts, 10 year compressor limited warranties
- 11+ SEER with Expansion Valve coils & Variable Speed Blowers or Furnaces



Rated in accordance with ARI Standard 210. Certification applies only when used with proper components as listed with ARI.



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Lewisburg, Tennessee 37091

RESIDENTIAL AND COMMERCIAL SYSTEMS • SPLIT SYSTEMS • PACKAGED AIR CONDITIONERS • COMBINATION GAS / ELECTRIC UNITS • HEAT PUMPS • AIR HANDLERS • MANUFACTURED HOME AIR CONDITIONERS • GAS, OIL AND ELECTRIC FURNACES

## Base Specifications

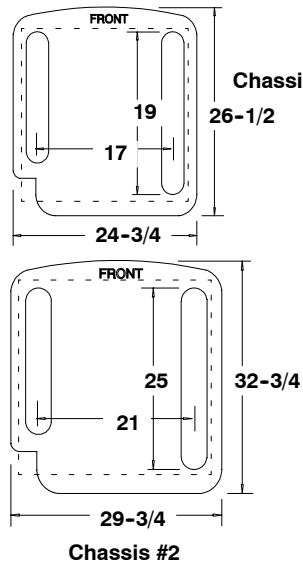
Model Number	CAC018AKA CAC018GKA	CAC024AKA CAC024GKA	CAC030AKA CAC030GKA	CAC036AKA CAC036GKA	CAC042AKA CAC042GKA	CAC048AKA CAC048GKA	CAC060AKA CAC060GKA
Max. Cooling Capacity (Btuh)	18500	24600	30000	36600	42500	47500	60000
SEER Label	10	10	10	10	10	10	10
Sound Rating Decibels	71	72	75	75	75	77	77
Fan HP / Type / Speeds	1/8-PSC-1	1/8-PSC-1	1/5-PSC-1	1/5-PSC-1	1/5-PSC-1	1/3-PSC-1	1/3-PSC-1
Fan RPM / Max. CFM	1075 / 1400	1075 / 1400	1075 / 2000	1075 / 2000	1075 / 2000	1075 / 3000	1075 / 3000
Coil Face Area (Sq Ft)	10.73	10.73	10.73	11.63	15.20	17.76	18.94
Coil Rows / Fins Per Inch	1 / 20	1 / 20	1 / 20	1 / 20	1 / 20	1 / 20	1 / 20
Line Connection Suction I.D. Size (In.)	3/4	3/4	3/4	3/4	7/8	7/8	7/8
Line Connection Liquid I.D. Size (In.)	3/8	3/8	3/8	3/8	3/8	3/8	3/8
Supplied Optional Evaporator Orifice Size	.051	.057	.065	.073	.078	.079	.090
Factory Charge - R22 (Oz)	60	69	74	80	98	123	131
Weight Lbs. (Ship)	130	132	134	139	170	197	207

## Electrical Specifications - 208 - 230 / 1 / 60, Voltage Range 197V - 253V

Minimum Circuit Ampacity	11.9	13.5	18.9	21.3	24.5	29.1	35.7
Wire Size/Max. Length (AWG Cu) Ft.	14 / 50	14 / 40	14 / 30	12 / 35	12 / 25	10 / 40	8 / 50
Time Delay Fuse (Amps)	15	20	25	30	30	35	45
Max. Fuse or HACR Breaker Size (Amps)	20	20	30	35	40	50	60
Compressor Full Run / Lock Rotor Amps	9.0 / 42	10.3 / 54	14.1 / 73	16.0 / 100	18.6 / 127	21.8 / 131	27.1 / 175
Fan Full Load / Lock Rotor Amps.	.66 / 1.55	.66 / 1.55	1.3 / 2.33	1.3 / 2.33	1.3 / 2.33	1.9 / 3.7	1.9 / 3.7

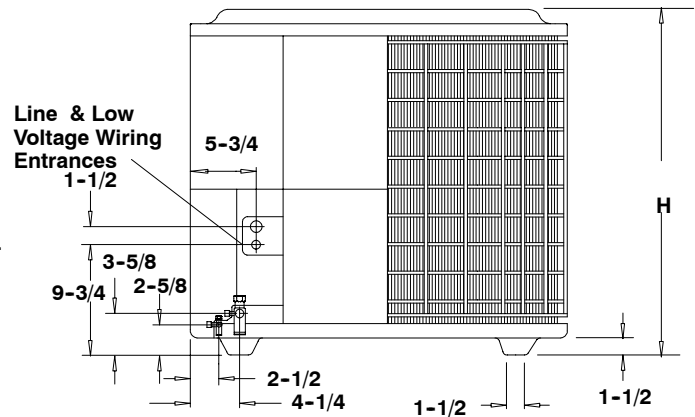
Dimensions		
Model	Chassis	Height (H)
018	1	26-5/8
024	1	26-5/8
030	1	26-5/8
036	1	28-5/8
042	1	36-5/8
048	2	32-5/8
060	2	34-5/8

ALL DIMENSIONS IN INCHES



Minimum Mounting Pad Sizes with pad starting at 9" from structure for minimum clearance of 6".

**Chassis #1** 20" W X 20" D  
**Chassis #2** 24" W X 26" D



Accessory	Description	Used On
AMF153TKB	Expansion Valve Kit	1 1/2 - 3 Ton
AMF355TKB	Expansion Valve Kit	3 1/2 - 5 Ton
AMA001TDA	Indoor Blower Time Delay	All Models
24370800 *	Compressor Anti-short cycle 24 Volt 3 Min. Time Delay	All Models
1070822*	Compressor Anti-short cycle 24 Volt 5 Min. Time Delay	All Models
1148671 *	Low Ambient Kit (Fan Cycling Switch)	All Models
1053477 *	Compressor Crankcase Heater Solid State "Stick On" Type	All Models
1148113 *	Compressor Crankcase Heater "Wrap-around" Type	All Models
1060833*	Compressor Sound Jacket (Small Scroll)	1 1/2 - 3 Ton
1060834 *	Compressor Sound Jacket (Large Scroll)	3 1/2 - 5 Ton

\* Order from Service Parts

**MODEL NUMBER IDENTIFICATION GUIDE**

<b>MODEL NUMBER</b> * <b>PRODUCT FAMILY</b> * = Brand	<b>AC</b>	<b>0</b>	<b>24</b>	<b>A</b>	<b>K</b>	<b>A</b>	<b>SALES CODE</b>
							<b>ELECTRICAL</b> K = 208/230-1-60 H = 208/230-3-60
<b>PRODUCT TYPE</b> AC = Air Conditioning CA = Condenser A/C HP = Heat Pump CH = Condenser H/P							<b>CONNECTIONS</b> A = Sweat / Valve G = Sweat / Valve & Coil Guard
<b>NOMINAL SEER RATING</b> 0 = 10 2 = 12 4 = 14							<b>NOMINAL CAPACITY MBTUH</b> 18 = 18,000 24 = 24,000 30 = 30,000 36 = 36,000 42 = 42,000 48 = 48,000 60 = 60,000

**EXTENDED REFRIGERANT LINE CORRECTION FACTORS**

Varying Line Length in Feet ( m ) vs. Total Capacity Multiplier					
25 ( 8 )	50 ( 15 )	75 ( 23 )	100 ( 30 )	125 ( 38 )	150 ( 46 )
1.00	.99	.98	.96	.94	.92

**REFRIGERANT CHARGE DATA**

All models are factory charged with R-22 for outdoor unit, 25' ( 8m ) of refrigerant line and matching indoor section.  
 Refrigerant charge correction per foot ( 305mm ) of line:  
 1/4" O.D. = .25 oz.; 5/16" O.D. = .45 oz.; 3/8" O.D. = .60 oz.;  
 1/2" O.D. = 1.2 oz.

**VOLTAGE CORRECTION FACTORS**

Volts	Capacity	Watts
208	.98	.99

**INDOOR AIRFLOW CORRECTION TABLE**

% Rated Air	90	95	100	105	110
Total Cap. Mult.	.98	.99	1.00	1.01	1.03
Sens Cap. Mult.	.95	.98	1.00	1.03	1.05

**INDOOR TEMPERATURE CORRECTION TABLE**  
 (Based on 95°F Ambient)

Indoor D.B. °F (°C).	Correction Factor	Entering Indoor Wet Bulb °F (°C).						
		59 (15)	61 (16)	63 (17)	65 (18)	67 (19)	69 (20)	71 (21)
70 (21)	Total Cap. Mult.	<b>.90</b>	.93	.96	.99	1.02	-	-
	Sens Cap. Mult.	<b>.86</b>	.85	.82	.77	.70	-	-
75 (24)	Total Cap. Mult.	.89	.92	<b>.95</b>	.98	1.01	1.04	-
	Sens Cap. Mult.	1.04	1.03	<b>1.00</b>	.95	.88	.78	-
80 (26)	Total Cap. Mult.	.88	.91	.94	.97	<b>1.00</b>	1.03	1.06
	Sens Cap. Mult.	1.18	1.17	1.14	1.08	<b>1.00</b>	.89	.73
85 (29)	Total Cap. Mult.	-	.90	.93	.96	.99	1.02	<b>1.05</b>
	Sens Cap. Mult.	-	1.29	1.26	1.20	1.11	.98	<b>.81</b>

Bold Type = approximately 50% Relative Humidity