



**C4A3**

**Product Specifications**

**EFFICIENT 13 SEER AIR CONDITIONER  
ENVIRONMENTALLY SOUND R-410A REFRIGERANT**

**1-1/2 THRU 5 TONS SPLIT SYSTEM**

**208 / 230 Volt, 1-phase, 60 Hz**

**REFRIGERATION CIRCUIT**

- Copeland Scroll™ compressors on all models
- Filter-Drier supplied with every unit for field installation
- External high and low refrigerant service ports
- Copper tube / aluminum fin coil

**PERFORMANCE**

- 2-speed Fan Motors factory wired on all models
- Compressor Sound Jacket standard

**EASY TO INSTALL AND SERVICE**

- Comfort Alert™ Diagnostics device on all models
- Easy Access service valves on all models
- Innovative control box design
- High and Low pressure switches
- Fan motor in-line disconnect plug
- Only two screws to access control panel
- Factory charged with R-410A refrigerant

**BUILT TO LAST**

- High gloss, baked-on powder coat finish over galvanized steel
- Post-painted (black) coil fins
- Coated, weather-resistant cabinet screws
- Coated inlet grille with 3/8" (10mm) spacing for extra protection (hail guard)
- Corner Posts for extra strength and style

**WARRANTY\***

- 1 year No Hassle Replacement™ limited warranty
- 5 year parts limited warranty (including compressor and coil)
  - With timely registration, an additional 5 year parts limited warranty (including compressor and coil)

\* For owner occupied, residential applications only. See warranty certificate for complete details and restrictions, including warranty coverage for other applications.



Use of the AHRI Certified TM Mark indicates a manufacturer's participation in the program. For verification of certification for individual products, go to [www.ahridirectory.org](http://www.ahridirectory.org).



Model Number	Size (tons)	Nominal Btu/hr	Min. Circuit Ampacity	Max. Fuse or Breaker	Operating Dimensions height x width x depth in. (mm)	Ship / Operating Weight lbs. (kg)
C4A318GKN	1-1/2	18,000	11.8	20	25-5/16 x 23-1/8 x 23-1/8 (643 x 587 x 587)	143 / 117 (65 / 53)
C4A324GKN	2	24,000	17.6	30	25-5/16 x 23-1/8 x 23-1/8 (643 x 587 x 587)	142 / 118 (64 / 54)
C4A330GKN	2-1/2	30,000	16.8	25	28-11/16 x 23-1/8 x 23-1/8 (729 x 587 x 587)	151 / 127 (69 / 58)
C4A336GKN	3	36,000	21.9	35	25-5/16 x 31-3/16 x 31-3/16 (643 x 793 x 793)	196 / 160 (89 / 73)
C4A342GKN	3-1/2	42,000	23.5	40	32-1/8 x 31-3/16 x 31-3/16 (816 x 793 x 793)	230 / 195 (104 / 89)
C4A348GKN	4	48,000	26.0	40	35-1/2 x 31-3/16 x 31-3/16 (902 x 793 x 793)	243 / 203 (110 / 92)
C4A360GKN	5	60,000	34.2	50	28-11/16 x 31-3/16 x 31-3/16 (729 x 793 x 793)	250 / 215 (113 / 98)

<b>OUTDOOR UNIT MODEL NUMBER IDENTIFICATION GUIDE (single phase)</b>											
Digit Position:	1	2	3	4	5, 6	7	8	9	10	11	12
Example Part Number:	<b>C</b>	<b>4</b>	<b>A</b>	<b>3</b>	<b>18</b>	<b>G</b>	<b>K</b>	<b>N</b>	<b>1</b>	<b>0</b>	<b>0</b>
C = Day & Night Mainline											
4 = R-410A		<b>REFRIGERANT</b>									
A = Air Conditioner			<b>TYPE</b>								
H = Heat Pump			<b>TYPE</b>								
3 = 13 SEER 4 = 14 SEER 5 = 15 SEER 6 = 16 SEER 7 = 17 SEER 8 = 18 SEER											
<b>NOMINAL EFFICIENCY</b>											
18 = 18,000 BTUH = 1-1/2 tons 24 = 24,000 BTUH = 2 tons 30 = 30,000 BTUH = 2-1/2 tons 36 = 36,000 BTUH = 3 tons 42 = 42,000 BTUH = 3-1/2 tons 48 = 48,000 BTUH = 4 tons 60 = 60,000 BTUH = 5 tons											
<b>NOMINAL CAPACITY</b>											
A = Standard Grille G = Coil Guard Grille C = Coastal						<b>FEATURES</b>					
K = 208/230-1-60						<b>VOLTAGE</b>					
Sales Code											
Engineering Revision											
Extra Digit											
Extra Digit											

<b>ACCESSORIES PART NUMBER IDENTIFICATION GUIDE</b>									
Digit Position:	1	2	3	4	5	6, 7	8, 9	10, 11	
Example Part Number:	<b>N</b>	<b>A</b>	<b>S</b>	<b>A</b>	<b>0</b>	<b>01</b>	<b>01</b>	<b>CH</b>	
N = Non-Branded		<b>BRANDING</b>							
A = Accessory		<b>PRODUCT GROUP</b>							
S = Split System (AC & HP)			<b>KIT USAGE</b>						
A = Original B = 2nd Generation				<b>MAJOR SERIES</b>					
0 = Generic or Not Applicable 2 = R-22 4 = R-410A									
<b>REFRIGERANT</b>									
Product Identifier Number									
Package Quantity									
Type of Kit (Example: CH = Crankcase Heater)									



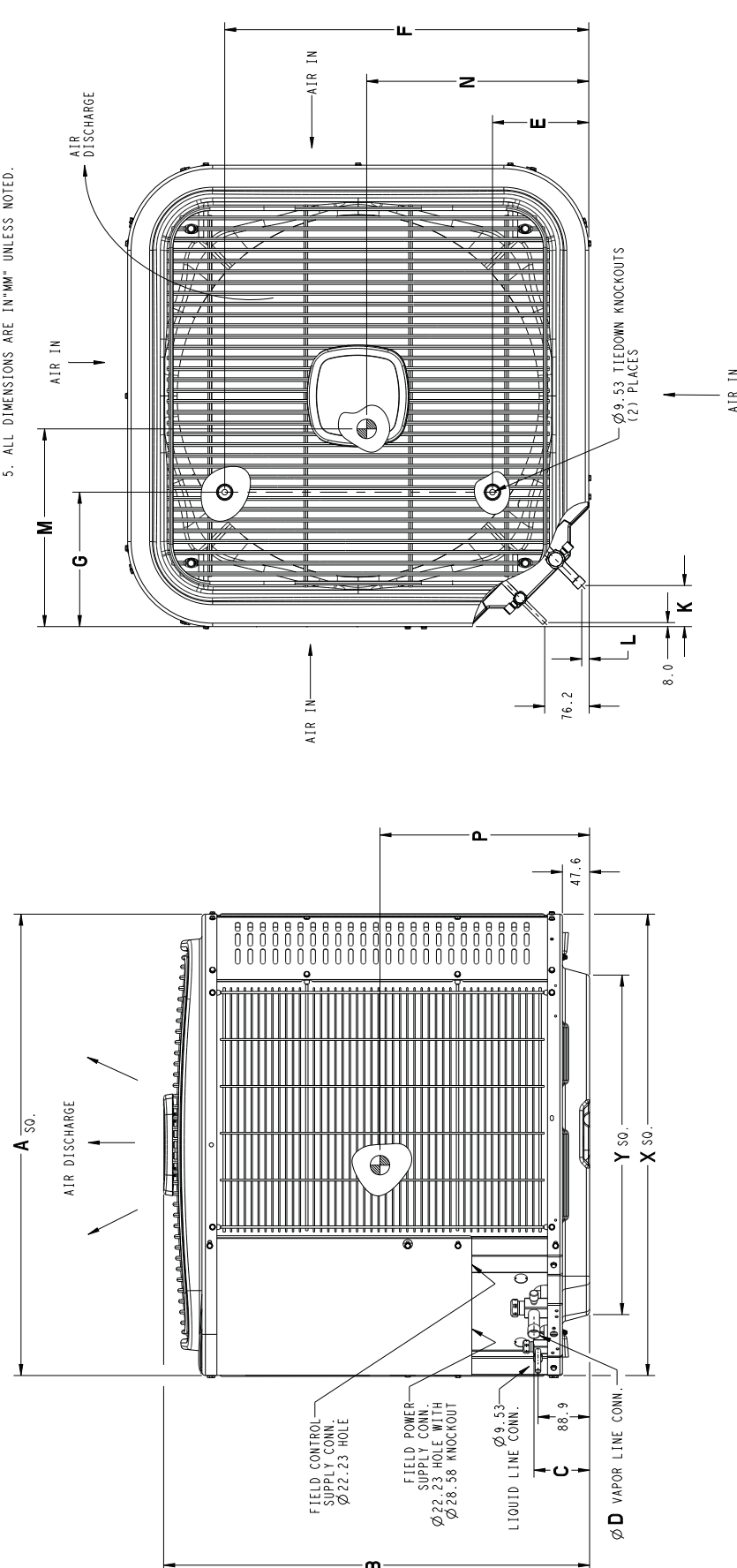
UNIT	SERIES	ELECTRICAL CHARACTERISTICS	A	B	C	D	E	F	G	K	L	M	N	P	OPERATING WEIGHT(Kgs)	SHIPPING WEIGHT(Kgs)	SHIPPING DIMENSIONS (L x W x H)
#A318G+N	2	X 0 0 0	587.3	642.9	95.6	19.1	113.0	459.0	197.9	70.9	12.8	279.4	279.4	304.8	53.1	64.9	616.0 X 695.3 X 827.1
#A324G+N	2	X 0 0 0	587.3	642.9	95.6	19.1	113.0	459.0	197.9	70.9	12.8	304.8	304.8	279.4	53.5	64.4	616.0 X 695.3 X 912.8
#A330G+N	3	X 0 0 0	587.3	729.3	95.6	19.1	113.0	459.0	197.9	70.9	12.8	279.4	279.4	304.8	57.6	68.5	616.0 X 695.3 X 912.8
#A336G+N	2	X 0 0 0	792.5	642.9	97.9	22.2	166.1	626.3	231.3	74.5	16.3	406.4	355.6	279.4	72.6	88.9	820.8 X 901.7 X 827.1
#A342G+N	2	X 0 0 0	792.5	815.6	97.9	22.2	166.1	626.3	231.3	74.5	16.3	381.0	406.4	381.0	88.4	104.3	820.8 X 901.7 X 1000.1
#A348G+N	2	X 0 0 0	792.5	902.0	97.9	22.2	166.1	626.3	231.3	74.5	16.3	406.4	381.0	381.0	92.1	110.2	820.8 X 901.7 X 1085.8
#A360G+N	3	X 0 0 0	792.5	729.3	97.9	22.2	166.1	626.3	231.3	74.5	16.3	381.0	355.6	304.8	97.5	113.4	820.8 X 901.7 X 912.8

- NOTES:
- ALLOW 762.0 CLEARANCE TO SERVICE SIDE OF UNIT, 1219.2 ABOVE UNIT, 152.4 ON ONE SIDE, 304.8 ON REMAINING SIDE, AND 609.6 BETWEEN UNITS FOR PROPER AIRFLOW.
  - MINIMUM OUTDOOR OPERATING AMBIENT IN COOLING MODE IS 13°C, MAX. 52°C.
  - SERIES DESIGNATION IS THE 10TH POSITION OF THE UNIT MODEL NUMBER.
  - CENTER OF GRAVITY
  - ALL DIMENSIONS ARE IN "MM" UNLESS NOTED.

UNIT SIZE	"X" MIN GROUND MOUNTING PAD APPLICATION DIMENSIONS	"Y" MIN ROOF-TOP MOUNTING PAD APPLICATION DIMENSIONS
18, 24, 30	587.3	451.3
-	654.0	518.5
36, 42, 48, 60	792.5	583.2
-	889.0	679.7

X = YES  
O = NO

208-230-160	575	208/230-3-60	460-3-60
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SD4817-4 REV.H

PHYSICAL DATA							
Model Size	18	24	30	36	42	48	60
Nominal Cooling Capacity (BTU/hr)	18,000	24,000	30,000	36,000	42,000	48,000	60,000
Nominal SEER	13.0	13.0	13.0	13.0	13.0	13.0	13.0
Sound Rating**							
High Speed Fan (dBA)	70	74	73	73	74	73	74
Low Speed Fan (dBA)	68	71	72	72	74	71	72
PSC Fan Motor HP	1/12	1/10	1/10	1/5	1/5	1/4	1/4
Fan RPM High	1094	1092	1087	840	841	828	816
Fan RPM Low	995	990	937	803	799	764	735
Fan CFM (High)	1747	2191	2191	3359	3359	3937	3937
Coil Face Area ft <sup>2</sup> (m <sup>2</sup> )	8.40 (0.78)	8.40 (0.78)	9.80 (0.91)	12.93 (1.20)	17.25 (1.60)	19.40 (1.80)	15.09 (1.40)
Coil Rows-fins per inch	1-20	1-25	1-25	1-25	1-25	1-25	2-20
Low Pressure Switch							
Open Pressure (psig)	50 ± 7	50 ± 7	50 ± 7	50 ± 7	50 ± 7 95	50 ± 7	50 ± 7
Close Pressure (psig)	95 ± 7	95 ± 7	95 ± 7	95 ± 7	± 7	95 ± 7	95 ± 7
High Pressure Switch							
Open Pressure (psig)	610 ± 10	610 ± 10	610 ± 10	610 ± 10	610 ± 10	610 ± 10	610 ± 10
Close Pressure (psig)	420 ± 25	420 ± 25	420 ± 25	420 ± 25	420 ± 25	420 ± 25	420 ± 25
Liquid Line Connection Size in. (mm)	3/8 (10)	3/8 (10)	3/8 (10)	3/8 (10)	3/8 (10)	3/8 (10)	3/8 (10)
Vapor Line Connection Size in. (mm)	3/4 (19)	3/4 (19)	3/4 (19)	7/8 (22)	7/8 (22)	7/8 (22)	7/8 (22)
Recommended Line Set Liquid Tube Diameter in. (mm)	3/8 (10)	3/8 (10)	3/8 (10)	3/8 (10)	3/8 (10)	3/8 (10)	3/8 (10)
Recommended Line Set Vapor Tube Diameter in. (mm)*	3/4 (19)*	3/4 (19)*	3/4 (19)*	7/8 (22)*	7/8 (22)*	7/8 (22)*	1-1/8 (29)*
* Recommended Vapor Tube Line size is for standard installations. These recommendations may not apply to "Long Line" installations. When the total equivalent line length exceeds 80 feet (24.4m) or there is more than 20 feet (6.1m) vertical separation between indoor and outdoor units, consult the Long Line Application Guideline document before purchasing/installing line sets.							
Factory Charge R-410A lbs. (kg)	3.50 (1.59)	3.80 (1.72)	4.10 (1.86)	5.34 (2.42)	5.84 (2.65)	7.00 (3.18)	8.00 (3.63)
Required Subcooling °F (°C)	10 (6)	10 (6)	10 (6)	12 (7)	10 (6)	15 (8)	10 (6)

ELECTRICAL DATA (208/230-1-60, voltage range 197V – 253V)							
Model Size	18	24	30	36	42	48	60
Minimum Circuit Ampacity – MCA (amps)	11.8	17.6	16.8	21.9	23.5	26.0	34.2
Maximum OverCurrent Protective device – MOCP (amps)	20	30	25	35	40	40	50
Compressor <b>RLA</b> (Rated Load Amps)	9.0	13.5	12.8	16.7	17.9	19.9	26.4
<b>LRA</b> (Locked Rotor Amps)	48	58.3	64	79	112	109	134
Fan Motor <b>FLA</b> (Full Load Amps)	0.5	0.75	0.75	1.1	1.1	1.2	1.2

\*\*Sound Rating tested in accordance with AHRI Standard 270-2008 (not listed with AHRI).

R-410A COOLING CAPACITY LOSS FOR VARIOUS LINE LENGTHS & TUBE DIAMETERS															
Model Size	Liquid Line in.(mm)	Acceptable Vapor Line Sizes in.(mm)	Cooling Capacity Loss (%) at Total Equivalent Line Length, feet (m) Refer to Long Line Application Guideline to calculate equivalent length												
			Standard Application			Long Line Application (Requires Accessories)									
			25' (7.6)	50' (15.2)	80' (24.4)	81' (24.7)	100' (30.5)	125' (38.1)	150' (45.7)	175' (53.3)	200' (61)	225' (68.6)	250' (76.2)		
18	3/8 (10)	1/2 (13)	1	2	3	3	4	6	7	8	9	10	12		
		5/8 (16)	0	0	1	1	1	1	2	2	3	3	3		
		3/4 (19)	0	0	0	0	0	1	1	1	1	1	1		
24		5/8 (16)	0	1	1	1	2	3	3	4	4	5	6		
		3/4 (19)	0	0	0	0	0	1	1	1	1	1	2		
30		7/8 (22)	0	0	0	0	0	0	0	0	0	0	1		
		5/8 (16)	1	2	3	3	3	4	5	6	7	8	9		
		3/4 (19)	0	0	1	1	1	1	2	2	2	3	3		
36		7/8 (22)	0	0	0	0	0	1	1	1	1	1	1		
		5/8 (16)	1	2	4	4	5	6	7	9	10	11	13		
		3/4 (19)	0	0	1	1	1	2	2	3	3	4	4		
42		7/8 (22)	0	0	0	0	0	1	1	1	1	1	2		
		3/4 (19)	0	1	2	2	2	3	4	4	5	6	6		
		7/8 (22)	0	0	1	1	1	1	2	2	2	3	3		
48/49	1-1/8 (29)	0	0	0	0	0	0	0	0	0	0	1			
	3/4 (19)	0	1	2	2	3	4	5	5	6	7	8			
	7/8 (22)	0	0	1	1	1	2	2	2	3	3	4			
60/61	1-1/8 (29)	0	0	0	0	0	0	0	0	1	1	1			
	3/4 (19)	1	2	4	4	5	6	7	9	10	11	12			
	7/8 (22)	0	1	2	2	2	3	4	4	5	5	6			
		1-1/8(29)	0	0	0	0	1	1	1	1	1	2			

\* Applications are considered "Long Line" if the total equivalent tubing length exceeds 80 feet (24.4m) or there is more than 20 foot (6.1m) vertical separation between indoor and outdoor units. These applications require additional accessories and system modifications for reliable system operation.

Applications in shaded area may have height restrictions that limit allowable total equivalent length when outdoor unit is below indoor unit.

COOLING PERFORMANCE FOR COMBINATION RATINGS Indoor Models								
For complete ratings information, use the AHRI website directory search: <a href="http://www.AHRIdirectory.org">www.AHRIdirectory.org</a> . New ratings may be listed online before Specification Sheets are updated.								
Unit Size	Indoor Model	Furnace Model	AHRI Standard Ratings					
			Cooling 95° F (35°C)					
			Capacity	Factory Enhance	SEER			EER
Standard	W/ Field TDR	W/ Field TXV						
C4A318GKN	*ED*4X18B**		17200	TXV		13		10.9
C4A324GKN	*ED*4X24B**		23000	TXV		13		11
C4A330GKN	*ED*4X30B**		27200	TXV		13		10.8
C4A336GKN	*ED*4X36F**		35200	TXV		13.2		11
C4A342GKN	*ED*4X42J**		41000	TXV		13.2		11
C4A348GKN	*ED*4X48J**		46000	TXV		13.2		11
C4A360GKN	*ED*4X60L**		57500	TXV		13		11

**TESTED AHRI COMBINATION RATINGS\***

NOTE: Ratings contained in this document are subject to change at any time.

For AHRI ratings certificates, please refer to the AHRI directory. [www.ahridirectory.org](http://www.ahridirectory.org)

Additional ratings and system combinations can be accessed via the Day and Night database:

<http://www.icpeqp.com/AHRIratings/ratings.aspx?Brand=DayAndNight>

Or scan this QR code:



<b>ACCESSORY USAGE GUIDELINES</b>		
Accessory	REQUIRED FOR LOW-AMBIENT APPLICATIONS {Below 55°F (13°C)}	REQUIRED FOR LONG LINE APPLICATIONS* {Over 80 Ft.(24.4m)}
Crankcase Heater	<b>Yes</b>	<b>Yes</b>
Evaporator Freeze Thermostat	<b>Yes</b>	No
Winter Start Control	<b>Yes</b>	No
Hard Start Kit (Capacitor & Relay)	<b>Yes</b>	<b>Yes</b>
Low Ambient Kit (Pressure Switch)	<b>Yes</b>	No
Support Feet, 4" (102mm) tall	Recommended	No
Liquid Line Solenoid Valve	No	See Long-Line Application Guideline

\* For Line Set lengths between 80 and 200 ft (24.4 and 61m) horizontal, or more than 20 ft (6.1m) indoor-outdoor vertical separation, refer to the Long Line Application Guideline document.

<b>ACCESSORIES</b>		
Part Number	Description	Used On Model Size
NASA001CH	Crankcase Heater for Scroll Compressor (208/230 V)	42, 48, 60
NASA003CH	Crankcase Heater for Scroll Compressor (208/230 V)	18, 24, 30, 36
NASA001SC	Start Component – PTC Device	ALL
NASA00201FS	Evaporator Freeze Thermostat	ALL
NASA401LS	Liquid Line Solenoid Valve, R-410A	ALL
NASA001TD	Time Delay Relay, Indoor Blower	ALL
NASA00201WS	Winter Start Control	ALL
NASA001AC	Anti-Cycle Timer (5 minute delay)	ALL
NASA005SC	Hard Start Kit (Capacitor & Relay)	ALL
NASA401LA	Low Ambient Kit (Pressure Switch), R-410A	ALL
NASA00201SF	Support Feet, 4" (102mm) tall (5 blocks)	18, 24, 36
NASA001SF	Support Feet, 4" (102mm) tall (4 blocks)	30, 42, 48, 60
EBAC05TXVX	TXV Kit, R-410A – 2005–2009 R-22 TXV Fancoils (air handlers)	18, 24, 30
EBAC06TXVX	TXV Kit, R-410A – 2005–2009 R-22 TXV Fancoils (air handlers)	36, 42
EBAC07TXVX	TXV Kit, R-410A – 2005–2009 R-22 TXV Fancoils (air handlers)	48, 60
NAEA40501TX	TXV Kit, R-410A – 2010 and later Piston Coils	18, 24, 30
NAEA40601TX	TXV Kit, R-410A – 2010 and later Piston Coils	36, 42
NAEA40701TX	TXV Kit, R-410A – 2010 and later Piston Coils	48, 60