

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 compressor 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.ahrirectory.org.



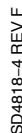
Model Number	Size (tons)	Nominal Btu/hr	Min. Circuit Ampacity	Max. Fuse or Breaker	Operating Dimensions height x width x depth in. (mm)	Ship / Operating Weight lbs. (kg)
H4A318GKD	1-1/2	18,000	11.8	20	25-3/16 x 23-1/8 x 23-1/8 (640 x 587 x 587)	143 / 117 (65 / 53)
H4A324GKD	2	24,000	17.6	30	25-3/16 x 23-1/8 x 23-1/8 (640 x 587 x 587)	142 / 118 (64 / 54)
H4A330GKD	2-1/2	30,000	16.8	25	28-9/16 x 23-1/8 x 23-1/8 (726 x 587 x 587)	151 / 127 (69 / 58)
H4A336GKD	3	36,000	21.9	35	25-3/16 x 31-3/16 x 31-3/16 (640 x 793 x 793)	196 / 160 (89 / 73)
H4A342GKD	3-1/2	42,000	23.5	40	32 x 31-3/16 x 31-3/16 (813 x 793 x 793)	230 / 195 (104 / 89)
H4A348GKD	4	48,000	26.0	40	35-3/8 x 31-3/16 x 31-3/16 (899 x 793 x 793)	243 / 203 (110 / 92)
H4A360GKD	5	60,000	34.2	50	28-9/16 x 31-3/16 x 31-3/16 (726 x 793 x 793)	250 / 215 (113 / 98)

OUTDOOR UNIT MODEL NUMBER IDENTIFICATION GUIDE (single phase)

Digit Position:	1	2	3	4	5, 6	7	8	9	10	11	12
Example Part Number:	H	4	A	3	18	G	K	D	1	0	0
H = Arcoaire Mainline N = Arcoaire Entry	BRANDING										
4 = R-410A	REFRIGERANT										
A = Air Conditioner H = Heat Pump	TYPE										
3 = 13 SEER 4 = 14 SEER 5 = 15 SEER 6 = 16 SEER 7 = 17 SEER 8 = 18 SEER	NOMINAL EFFICIENCY										
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	NOMINAL CAPACITY										
A = Standard Grille G = Coil Guard Grille C = Coastal	FEATURES										
K = 208/230-1-60	VOLTAGE										
Sales Code											
Engineering Revision											
Extra Digit											
Extra Digit											

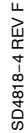
ACCESSORIES PART NUMBER IDENTIFICATION GUIDE

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



1. Allow 24" clearance to service side of unit, 48" above unit, 6" on one side, 12" on remaining sides.
2. Maintain a distance of 24" between units or 18" if no overhang within 12'.
3. Minimum outdoor operating ambient in cooling mode is 55°F, max 125°F.
4. Center of Gravity 

Model	Dimensions Inches (English)														Crated Dimensions h x w x d
	A	B	C	D	E	F	G	K	L	M	N	P	Minimum Ground Mounting Pad Size X	Minimum Rooftop Mounting Pad Size Y	
H4A318GKD	23-1/8	25-3/16	3-3/4	3/4	4-7/16	18-1/16	7-13/16	2-13/16	1/2	11	11	12	23-1/8 x 23-1/8	17-3/4 x 17-3/4	32-9/16 x 27-3/8 x 24-1/4
H4A324GKD	23-1/8	25-3/16	3-3/4	3/4	4-7/16	18-1/16	7-13/16	2-13/16	1/2	12	12	11	23-1/8 x 23-1/8	17-3/4 x 17-3/4	32-9/16 x 27-3/8 x 24-1/4
H4A330GKD	23-1/8	28-9/16	3-3/4	3/4	4-7/16	18-1/16	7-13/16	2-13/16	1/2	11	11	12	23-1/8 x 23-1/8	17-3/4 x 17-3/4	35-15/16 x 27-3/8 x 24-1/4
H4A336GKD	31-3/16	25-3/16	3-7/8	7/8	6-9/16	24-11/16	9-1/8	2-15/16	5/8	16	14	11	31-3/16 x 31-3/16	23 x 23	32-9/16 x 35-1/2 x 32-5/16
H4A342GKD	31-3/16	32	3-7/8	7/8	6-9/16	24-11/16	9-1/8	2-15/16	5/8	15	16	15	31-3/16 x 31-3/16	23 x 23	39-3/8 x 35-1/2 x 32-5/16
H4A348GKD	31-3/16	35-3/8	3-7/8	7/8	6-9/16	24-11/16	9-1/8	2-15/16	5/8	16	15	15	31-3/16 x 31-3/16	23 x 23	42-3/4 x 35-1/2 x 32-5/16
H4A360GKD	31-3/16	28-9/16	3-7/8	7/8	6-9/16	24-11/16	9-1/8	2-15/16	5/8	15	14	12	31-3/16 x 31-3/16	23 x 23	35-15/16 x 35-1/2 x 32-5/16



1. Allow 610 mm clearance to service side of unit, 1219 mm above unit, 152 mm on one side, 305 mm on remaining sides
2. Maintain a distance of 610 mm between units or 457 mm if no overhang within 3.7 m.
3. Minimum outdoor operating ambient in cooling mode is 13°C, max 52°C.
4. Center of Gravity 

Model	Dimensions mm (SI Metric)													Minimum Ground Mounting Pad Size X	Minimum Rooftop Mounting Pad Size Y	Crated Dimensions h x w x d
	A	B	C	D	E	F	G	K	L	M	N	P				
H4A318GKD	587	640	95	19	113	459	198	71	13	279	279	305	587 x 587	451 x 451	827 x 696 x 616	
H4A324GKD	587	640	95	19	113	459	198	71	13	305	305	279	587 x 587	451 x 451	827 x 696 x 616	
H4A330GKD	587	726	95	19	113	459	198	71	13	279	279	305	587 x 587	451 x 451	913 x 696 x 616	
H4A336GKD	793	640	98	22	167	626	232	75	16	406	356	279	793 x 793	583 x 583	827 x 901 x 821	
H4A342GKD	793	813	98	22	167	626	232	75	16	381	406	381	793 x 793	583 x 583	1000 x 901 x 821	
H4A348GKD	793	899	98	22	167	626	232	75	16	406	381	381	793 x 793	583 x 583	1086 x 901 x 821	
H4A360GKD	793	726	98	22	167	626	232	75	16	381	356	305	793 x 793	583 x 583	913 x 901 x 821	

PHYSICAL DATA	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) Low Speed Fan (dBA)	70 68	74 71	73 72	73 72	74 74	73 71	74 72
PSC Fan Motor HP	1/12	1/10	1/10	1/5	1/5	1/4	1/4
Fan RPM High Fan RPM Low	1094 995	1092 990	1087 937	840 803	841 799	828 764	816 735
Fan CFM (High)	1747	2191	2191	3359	3359	3937	3937
Coil Face Area ft ² (m ²)	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) Close Pressure (psig)	50 ± 7 95 ± 7	50 ± 7 95 ± 7	50 ± 7 95 ± 7	50 ± 7 95 ± 7	50 ± 7 95 ± 7	50 ± 7 95 ± 7	50 ± 7 95 ± 7
High Pressure Switch Open Pressure (psig) Close Pressure (psig)	610 ± 10 420 ± 25	610 ± 10 420 ± 25	610 ± 10 420 ± 25	610 ± 10 420 ± 25	610 ± 10 420 ± 25	610 ± 10 420 ± 25	610 ± 10 420 ± 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 RLA (Rated Load Amps) LRA (Locked Rotor Amps)	9.0 48	13.5 58.3	12.8 64	16.7 79	17.9 112	19.9 109	26.4 134
Fan Motor FLA (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
		7/8 (22)	0	0	0	0	0	0	0	0	0	0	1
30		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
		7/8 (22)	0	0	0	0	0	1	1	1	1	1	1
36		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
		7/8 (22)	0	0	0	0	0	1	1	1	1	2	2
42		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
		1-1/8 (29)	0	0	0	0	0	0	0	0	0	0	1
48/49		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
		1-1/8 (29)	0	0	0	0	0	0	0	0	1	1	1
60/61		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	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: www.AHRIdirectory.org.
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	
H4A318GKD	*ED*4X18B**		17200	TXV		13		10.9
H4A324GKD	*ED*4X24B**		23000	TXV		13		11
H4A330GKD	*ED*4X30B**		27200	TXV		13		10.8
H4A336GKD	*ED*4X36F**		35200	TXV		13.2		11
H4A342GKD	*ED*4X42J**		41000	TXV		13.2		11
H4A348GKD	*ED*4X48J**		46000	TXV		13.2		11
H4A360GKD	*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

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

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

Or scan this QR code:



ACCESSORY USAGE GUIDELINES

Accessory	REQUIRED FOR LOW-AMBIENT APPLICATIONS {Below 55°F (13°C)}	REQUIRED FOR LONG LINE APPLICATIONS* {Over 80 Ft.(24.4m)}
Crankcase Heater	Yes	Yes
Evaporator Freeze Thermostat	Yes	No
Winter Start Control	Yes	No
Hard Start Kit (Capacitor & Relay)	Yes	Yes
Low Ambient Kit (Pressure Switch)	Yes	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.

ACCESSORIES

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
NASA001FS	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