

**High
Efficiency**

14+

AIRQUEST®

14+ SEER - R410-A AIR CONDITIONER



Representative photo only, some models may vary in appearance.



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



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
- Standard 5 Year limited warranty on parts
- Ten (10) year limited compressor warranty
- Covered under the 5 year No Hassle Replacement Warranty Program
- Discharge muffler for quieter operation
- Filter dryer
- High/Low pressure switches
- Shortened control panel
- Enhanced wire coil guard for maximum coil protection
- Compressor jacket for sound reduction
- Earth friendly R410-A refrigerant

International Comfort Products Corporation (LLC)
651 Heil-Quaker Ave.
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	HXA424AKA	HXA430AKA	HXA436AKA	HXA442AKA	HXA448AKA	HXA460AKA
Rated Cooling Capacity (Btuh)	23400	28400	35600	39000	46000	57500
SEER Label	14	14	14	14	14	14
Fan HP / Type / Speeds	1/8-PSC-2	1/8-PSC-2	1/4-PSC-2	1/4-PSC-2	1/4-PSC-2	1/4-PSC-2
Fan RPM / est. CFM	840 / 2750	840 / 2750	840 / 3700	840 / 3700	840 / 3900	840 / 4000
Coil Face Area (Sq Ft)	20.0	20.0	24.0	26.7	26.7	26.7
Coil Rows / Fins Per Inch	2 / 22	2 / 18	2 / 22	2 / 22	2 / 22	2 / 22
Line Connection Suction I.D. Size (In.)	3/4	3/4	7/8	7/8	7/8	1 1/8
Line Connection Liquid I.D. Size (In.)	3/8	3/8	3/8	3/8	3/8	3/8
Supplied Optional Evaporator Orifice Size	-	-	-	-	-	-
Factory Charge - R410-A (Oz)	192	192	224	256	256	272
Weight Lbs. (Ship)	208	225	245	275	290	308
Sound Rating (dBA)	72	72	72	72	72	76

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

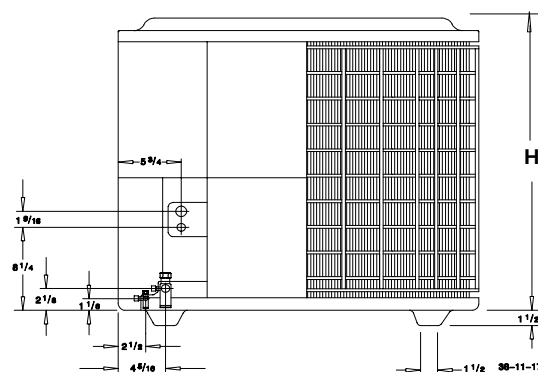
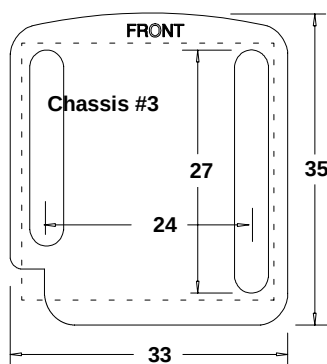
Minimum Circuit Ampacity	16.8	17.6	20.7	24.7	27.1	35.2
Wire Size/Max. Length (AWG Cu) Ft.	14 / 44	14 / 42	12 / 57	12 / 50	10 / 70	8 / 84
Time Delay Fuse (Amps)	25	30	30	40	40	50
Max. Fuse or HACR Breaker Size (Amps)	25	30	30	40	40	50
Compressor Full Run / Lock Rotor Amps	12.8 / 60	13.5 / 61	15.4 / 83	18.6 / 105	20.5 / 109	26.9 / 145
Fan Full Load / Lock Rotor Amps.	0.8 / 1.5	0.8 / 1.5	1.5 / 2.9	1.5 / 2.9	1.5 / 2.9	1.5 / 2.9

Minimum Mounting Pad Sizes with pad starting at 9" from structure for minimum clearances

ALL DIMENSIONS IN INCHES

Dimensions		
Model	Chassis	Height (H)
424	3	36.1
430	3	36.1
436	3	42.1
442	3	46.1
448	3	46.1
460	3	46.1

Chassis #3 27" W X 28" D



Accessory	Description	Used On
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
1172010	Compressor Crankcase Heater 40w - 240v	1 1/2 thru 4 ton
1172011	Compressor Crankcase Heater 40w - 240v	5 ton
1060833*	Compressor Sound Jacket (Small Scroll)	1 1/2 - 3 Ton
1060834 *	Compressor Sound Jacket (Large Scroll)	3 1/2 - 5 Ton
EBAC05TXVX	Expansion Valve Kit	2 - 2-1/2 Ton
EBAC06TXVX	Expansion Valve Kit	3 - 3-1/2 Ton
EBAC07TXVX	Expansion Valve Kit	4 Ton
EBAC08TXVX	Expansion Valve Kit	5 Ton

* Order from Service Parts

PERFORMANCE DATA COOLING

		Cooling 95 Degrees F					
Outdoor Model	Indoor Model	Cooling 95 Degrees F					CFM
		Btuh	S/T	SEER	EER	Watts	
CXA424AKA*	EBV24****+R410A-TXV	24400	0.72	15	13.25	1842	800
CXA424AKA*	EBV36****+R410A-TXV	24800	0.72	15	13.4	1851	800
CXA424AKA*	EBX24****+R410A-TXV	24000	0.72	14	12.25	1959	800
CXA424AKA*	EBX36****+R410A-TXV	24400	0.72	14	12.3	1984	800
CXA424AKA*	EP*36B****+TD1	24400	0.72	13	12.25	1992	800
CXA424AKA*	EP*36F****+TD1	24400	0.72	13	12.25	1992	800
CXA424AKA*	EP*36J****+TD1	24400	0.72	13	12.25	1992	800
CXA424AKA*	EXX*24B****+MV08B15****	24400	0.72	15	13.35	1828	795
CXA424AKA*	EXX*24B****+TD1	24400	0.72	14	12.5	1952	800
CXA424AKA*	EXX*24F****+MV08B15****	24400	0.72	15	13.35	1828	795
CXA424AKA*	EXX*24F****+MV12F19****	24400	0.72	15	13.4	1821	810
CXA424AKA*	EXX*24F****+TD1	24000	0.72	14	12.1	1983	800
CXA424AKA*	EXX*36B****+MV08B15****	25000	0.72	15.2	13.7	1825	840
CXA424AKA*	EXX*36B****+TD1	24600	0.72	14	12.3	2000	800
CXA424AKA*	EXX*36F****+MV12F19****	25000	0.72	15.3	13.8	1812	860
CXA424AKA*	EXX*36F****+TD1	24600	0.72	14	12.3	2000	800
CXA430AKA*	EBV36****+R410A-TXV	28800	0.71	15	12.95	2224	850
CXA430AKA*	EBX36****+R410A-TXV	28400	0.71	14	11.9	2387	850
CXA430AKA*	EP*36B****+TD1	27400	0.71	13	11.55	2372	850
CXA430AKA*	EP*36F****+TD1	27400	0.71	13	11.55	2372	850
CXA430AKA*	EP*36J****+TD1	27400	0.71	13	11.55	2372	850
CXA430AKA*	EP*42F****+TD1	28400	0.71	13	11.8	2407	850
CXA430AKA*	EP*42J****+TD1	28400	0.71	13	11.8	2407	850
CXA430AKA*	EXX*36B****+MV08B15****	28600	0.71	15	13	2200	875
CXA430AKA*	EXX*36B****+TD1	28400	0.71	14	11.9	2387	850
CXA430AKA*	EXX*36F****+MV12F19****	28600	0.71	15	13.1	2183	895
CXA430AKA*	EXX*36F****+TD1	28400	0.71	14	11.9	2387	850
CXA430AKA*	EXX*36J****+MV16J22****	28600	0.71	15	13.25	2158	860
CXA430AKA*	EXX*36J****+TD1	28400	0.71	14	11.9	2387	850
CXA430AKA*	EXX*42F****+MV12F19****	28800	0.71	15	13.25	2174	905
CXA430AKA*	EXX*42F****+TD1	28600	0.71	14	12	2383	850
CXA430AKA*	EXX*42J****+MV16J22****	28800	0.71	15	13.35	2157	910
CXA430AKA*	EXX*42J****+TD1	28600	0.71	14	12	2383	850
CXA436AKA*	EBV48****+R410A-TXV	36800	0.71	15	13	2831	1100
CXA436AKA*	EBV60****+R410A-TXV	36800	0.71	14.4	12.6	2921	1100
CXA436AKA*	EBX48****+R410A-TXV	36400	0.71	14	11.85	3072	1100
CXA436AKA*	EP*42F****+TD1	35400	0.71	13	11.4	3105	1100
CXA436AKA*	EP*42J****+TD1	35400	0.71	13	11.4	3105	1100
CXA436AKA*	EP*48F****+TD1	35800	0.71	13	11.55	3100	1100
CXA436AKA*	EP*48J****+TD1	35800	0.71	13	11.6	3086	1100
CXA436AKA*	EP*48L****+TD1	35800	0.71	13	11.6	3086	1100
CXA436AKA*	EP*48N****+TD1	35800	0.71	13	11.6	3086	1100
CXA436AKA*	EP*60J****+TD1	36400	0.71	13	11.75	3098	1100
CXA436AKA*	EP*60L****+TD1	36400	0.71	13	11.75	3098	1100
CXA436AKA*	EP*60N****+TD1	36400	0.71	13	11.75	3098	1100
CXA436AKA*	EXX*42F****+MV12F19****	36200	0.71	14.5	12.6	2873	1115
CXA436AKA*	EXX*42F****+MV16J22****	36200	0.71	15	12.85	2817	1200
CXA436AKA*	EXX*42F****+TD1	36000	0.71	14	11.75	3064	1100
CXA436AKA*	EXX*42J****+MV16J22****	36200	0.71	15	12.85	2817	1200
CXA436AKA*	EXX*42J****+TD1	36000	0.71	14	11.75	3064	1100
CXA436AKA*	EXX*48J****+MV16J22****	36200	0.71	15	12.95	2795	1240
CXA436AKA*	EXX*48J****+TD1	36000	0.71	14	11.75	3064	1100
CXA436AKA*	EXX*48L****+MV16J22****	36800	0.71	15	12.95	2842	1240
CXA436AKA*	EXX*48L****+TD1	36400	0.71	14	11.75	3098	1100
CXA436AKA*	EXX*48N****+TD1	36400	0.71	14	11.75	3098	1100
CXA442AKA*	EBV48****+R410A-TXV	43000	0.71	15	13.3	3233	1200
CXA442AKA*	EBV60****+R410A-TXV	43000	0.71	15	13.3	3233	1200

PERFORMANCE DATA COOLING

Outdoor Model	Indoor Model	Cooling 95 Degrees F					CFM
		Btuh	S/T	SEER	EER	Watts	
HXA442AKA*	EP*48L****+TD1	42000	0.71	13	12.1	3471	1200
HXA442AKA*	EP*48N****+TD1	42000	0.71	13	12.1	3471	1200
HXA442AKA*	EXX*48J****+MV16J22****	42500	0.71	15	13.3	3195	1240
HXA442AKA*	EXX*48J****+TD1	42000	0.71	14	12.2	3443	1200
HXA442AKA*	EXX*48L****+MV16J22****	42500	0.71	15	13.3	3195	1240
HXA442AKA*	EXX*48L****+TD1	42000	0.71	14	12.2	3443	1200
HXA442AKA*	EXX*48N****+MV16J22****	42500	0.71	15	13.35	3184	1250
HXA442AKA*	EXX*48N****+TD1	42000	0.71	14	12.25	3429	1200
HXA442AKA*	EXX*60L****+MV16J22****	43000	0.71	15.3	13.85	3105	1280
HXA442AKA*	EXX*60L****+TD1	43000	0.71	14.2	12.6	3413	1200
HXA442AKA*	EXX*60N****+MV16J22****	43000	0.71	15.3	13.85	3105	1285
HXA442AKA*	EXX*60N****+TD1	43000	0.71	14.2	12.6	3413	1200
HXA448AKA*	EBV48****+R410A-TXV	43500	0.73	13.5	11.45	3799	1400
HXA448AKA*	EBV60****+R410A-TXV	44500	0.73	14	11.7	3803	1400
HXA448AKA*	EBX48****+R410A-TXV	43000	0.73	12.5	10.75	4000	1400
HXA448AKA*	EBX60****+R410A-TXV	43500	0.73	12.5	10.75	4047	1400
HXA448AKA*	EP*60L****+MV20N26****	44000	0.73	13	11.35	3877	1650
HXA448AKA*	EP*60N****+MV20N26****	44000	0.73	13	11.35	3877	1650
HXA448AKA*	EXX*48J****+MV16J22****	42500	0.73	13.5	11.35	3744	1410
HXA448AKA*	EXX*48J****+TD1	42000	0.73	12.5	10.65	3944	1400
HXA448AKA*	EXX*48L****+MV16J22****	42500	0.73	13.5	11.35	3744	1410
HXA448AKA*	EXX*48L****+MV20N26****	43000	0.73	13	11.2	3839	1600
HXA448AKA*	EXX*48L****+TD1	42000	0.73	12.5	10.65	3944	1400
HXA448AKA*	EXX*48N****+MV16J22****	42500	0.73	13.5	11.35	3744	1415
HXA448AKA*	EXX*48N****+MV20N26****	43000	0.73	13	11.2	3839	1600
HXA448AKA*	EXX*48N****+TD1	42000	0.73	12.5	10.65	3944	1400
HXA448AKA*	EXX*60L****+MV16J22****	44500	0.73	14	11.8	3771	1455
HXA448AKA*	EXX*60L****+MV20N26****	45000	0.73	13.5	11.65	3863	1655
HXA448AKA*	EXX*60L****+TD1	44000	0.73	13	11	4000	1400
HXA448AKA*	EXX*60N****+MV16J22****	45000	0.73	14	11.8	3814	1445
HXA448AKA*	EXX*60N****+MV20N26****	45000	0.73	13.5	11.6	3879	1645
HXA448AKA*	EXX*60N****+TD1	44000	0.73	12.8	11	4000	1400
HXA460AKA*	EBV60****+R410A-TXV	57000	0.73	14	11.7	4872	1645
HXA460AKA*	EBX60****+R410A-TXV	55500	0.73	12.5	10.95	5068	1645
HXA460AKA*	EP*60L****+MV20N26****	55500	0.73	12.5	11.1	5000	1845
HXA460AKA*	EP*60N****+MV20N26****	55500	0.73	12.5	11.05	5023	1840
HXA460AKA*	EXX*60J****+TD1	56000	0.73	13	11.1	5045	1645
HXA460AKA*	EXX*60L****+MV16J22****	57000	0.73	14	11.7	4872	1655
HXA460AKA*	EXX*60L****+MV20N26****	57000	0.73	14	11.75	4851	1655
HXA460AKA*	EXX*60L****+TD1	56000	0.73	13	11.1	5045	1645
HXA460AKA*	EXX*60N****+MV16J22****	57000	0.73	13.5	11.65	4893	1645
HXA460AKA*	EXX*60N****+MV20N26****	57000	0.73	13.5	11.7	4872	1645
HXA460AKA*	EXX*60N****+TD1	56000	0.73	13	11.1	5045	1645

MODEL NUMBER IDENTIFICATION GUIDE

MODEL NUMBER * PRODUCT FAMILY * = Brand	XA	4	24	A	K	A
						SALES CODE
						ELECTRICAL
						K = 208/230-1-60 H = 208/230-3-60
						CONNECTIONS
						A = Sweat / Valve
PRODUCT TYPE XA = Air Conditioning / R410-A						
NOMINAL SEER RATING 0 = 10 2 = 12 4 = 14			NOMINAL CAPACITY MBTUH 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 R410-A 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.	.90	.93	.96	.99	1.02	-	-
	Sens Cap. Mult.	.86	.85	.82	.77	.70	-	-
75 (24)	Total Cap. Mult.	.89	.92	.95	.98	1.01	1.04	-
	Sens Cap. Mult.	1.04	1.03	1.00	.95	.88	.78	-
80 (26)	Total Cap. Mult.	.88	.91	.94	.97	1.00	1.03	1.06
	Sens Cap. Mult.	1.18	1.17	1.14	1.08	1.00	.89	.73
85 (29)	Total Cap. Mult.	-	.90	.93	.96	.99	1.02	1.05
	Sens Cap. Mult.	-	1.29	1.26	1.20	1.11	.98	.81

Bold Type = approximately 50% Relative Humidity