

HIGH EFFICIENCY 16 SEER HEAT PUMP ENVIRONMENTALLY BALANCED R-410A REFRIGERANT

1½ THRU 5 TONS SPLIT SYSTEM

208 / 230 Volt, 1-phase, 60 Hz

REFRIGERATION CIRCUIT

- Scroll compressors on all models
- Suction line accumulator factory installed
- Bi-flow filter-drier included for field installation
- Integrated solid state control with Time-Temperature Defrost
- High and Low pressure switches
- Copper tube / aluminum fin coil

EASY TO INSTALL AND SERVICE

- Easy access service valves on all models
- External high and low refrigerant service ports
- Only two screws to access control panel
- Factory charged with R-410A refrigerant

BUILT TO LAST

- 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) grille spacing for extra protection

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)

* Applies to original purchaser/homeowner, some limitations may apply. See Warranty certificate for complete details.



This product has been designed and manufactured to meet ENERGY STAR criteria for energy efficiency when matched with appropriate coil components. However, proper refrigerant charge and proper air flow are critical to achieve rated capacity and efficiency. Installation of this product should follow the manufacturer's refrigerant charging and air flow instructions. Failure to confirm proper charge and airflow may reduce energy efficiency and shorten equipment life.



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.

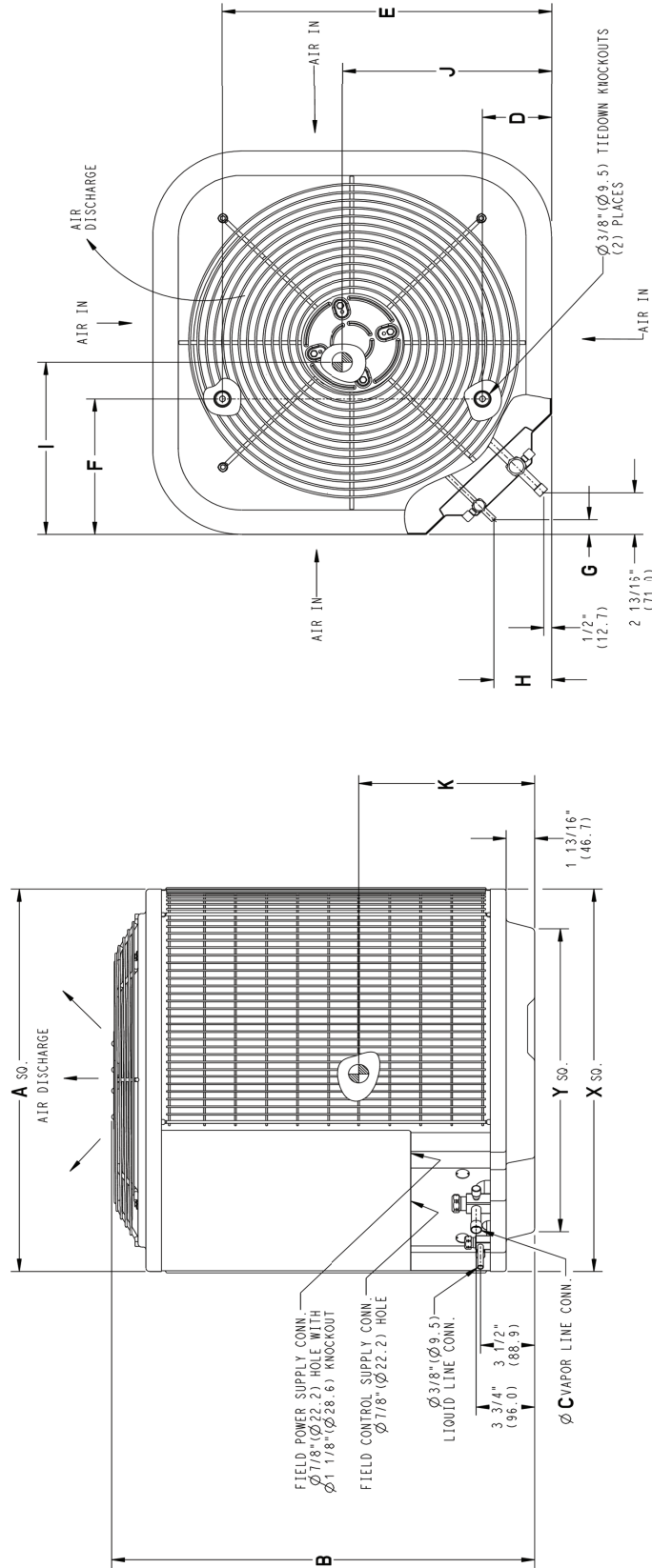
Model Number	Size (tons)	Nominal Btu/hr	Min. Circuit Ampacity	Max. Fuse or Breaker	Operating Dimensions height x width x depth inches (mm)	Ship / Operating Weight lbs. (kg)
NXH618GKA	1- 1/2	18,000	13.6	20	35- 1/2 x 31- 3/16 x 31- 3/16 (901 x 793 x 793)	199 / 167 (90 / 76)
NXH624GKA	2	24,000	15.5	25	32- 1/16 x 35 x 35 (815 x 889 x 889)	210 / 172 (95 / 78)
NXH630GKA	2- 1/2	30,000	19.9	30	32- 1/16 x 35 x 35 (815 x 889 x 889)	245 / 207 (111 / 94)
NXH636GKA	3	36,000	21.6	35	32- 1/16 x 35 x 35 (815 x 889 x 889)	253 / 215 (115 / 98)
NXH642GKA	3- 1/2	42,000	27.8	40	32- 1/16 x 35 x 35 (815 x 889 x 889)	271 / 233 (123 / 106)
NXH648GKA	4	48,000	31.8	45	32- 1/16 x 35 x 35 (815 x 889 x 889)	276 / 238 (125 / 108)
NXH660GKA	5	60,000	33.9	50	45- 11/16 x 35 x 35 (1161 x 889 x 889)	334 / 288 (152 / 131)

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:	N	X	H	6	18	G	K	A	1	0	0
H = ACiQ Mainline		BRANDING									
N = ACiQ Entry		REFRIGERANT									
X = R-410A		TYPE									
A = Air Conditioner											
H = Heat Pump											
6 = 16 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									
4 = R-410A		REFRIGERANT							
Product Identifier Number									
Package Quantity									
Type of Kit(Example: CH = Crankcase Heater)									

UNIT	SERIES	ELECTRICAL CHARACTERISTICS	A		B		C		D		E		F		G		H		I		J		K		OPERATING WEIGHT		SHIPPING WEIGHT (S _g)		SHIPPING LENGTH / WIDTH		SHIPPING HEIGHT											
			INCH	MM	INCH	MM	INCH	MM	INCH	MM	INCH	MM	INCH	MM	INCH	MM	INCH	MM	INCH	MM	INCH	MM	INCH	MM	INCH	MM	LBS	KGS	LBS	KGS	INCH	MM	INCH	MM								
NXH618GKA101	1	N N N	31	792.5	35	1/2	901.4	5/8	15.9	6	9/16	166.1	24	11/16	626.3	9	1/8	231.3	1	1/8	28.2	3	13/16	97.4	15	3/4	400.1	16	406.4	16	1/4	412.8	167	75.7	199	90.3	33	9/16	846.6	40	1015.8	
NXH624GKA101	1	N N N	35	889.0	32	1/16	815.1	5/8	15.9	6	9/16	166.1	28	7/16	722.8	9	1/8	231.3	1	1/8	28.2	3	13/16	97.4	17	1/2	444.5	17	7/8	454.0	15	5/8	396.9	172	78.0	210	96.3	37	1/8	943.1	36	929.5
NXH630GKA101	1	N N N	35	889.0	32	1/16	815.1	3/4	19.1	6	9/16	166.1	28	7/16	722.8	9	1/8	231.3	1	1/8	28.2	3	13/16	97.4	17	1/4	438.2	16	7/8	428.6	15	3/4	400.1	207	93.9	245	111.1	37	1/8	943.1	36	929.5
NXH636GKA101	1	N N N	35	889.0	32	1/16	815.1	3/4	19.1	6	9/16	166.1	28	7/16	722.8	9	1/8	231.3	1	1/8	28.2	3	13/16	97.4	17	3/8	441.3	17	1/2	444.5	13	3/4	349.3	215	97.5	253	114.8	37	1/8	943.1	36	929.5
NXH642GKA101	1	N N N	35	889.0	32	1/16	815.1	7/8	22.2	6	9/16	166.1	28	7/16	722.8	9	1/8	231.3	1	1/8	28.2	3	13/16	97.4	16	1/4	412.8	17	7/8	454.0	15	7/8	403.2	233	105.7	271	122.9	37	1/8	943.1	36	929.5
NXH648GKA101	1	N N N	35	889.0	32	1/16	815.1	7/8	22.2	6	9/16	166.1	28	7/16	722.8	9	1/8	231.3	1	1/8	28.2	3	13/16	97.4	16	1/8	409.6	18	457.2	14	7/8	377.8	238	108.0	276	125.2	37	1/8	943.1	36	929.5	
NXH660GKA101	1	N N N	35	889.0	45	11/16	1160.5	7/8	22.2	6	9/16	166.1	28	7/16	722.8	9	1/8	231.3	1	1/8	28.2	3	13/16	97.4	17	7/8	454.0	16	1/4	412.8	19	482.6	288	130.6	334	151.5	37	1/8	943.1	50	1274.9	

Y=	YES
N=	NO
208-230-1-60	460-3-60
208-230-3-60	575-3-60



UNIT SIZE	"X" MINIMUM GROUND MOUNTING PAD APPLICATION DIMENSIONS		"Y" MINIMUM ROOF-TOP MOUNTING PAD APPLICATION DIMENSIONS			
	MINIMUM	MAXIMUM	MINIMUM	MAXIMUM		
18	23	1/8	587.3	17	7/8	454.6
24, 30, 36, 42, 48, 60	25	3/4	654.0	20	7/16	518.5
	31	3/16	792.5	22	15/16	583.2
	35		889.0	26	3/4	679.7

NOTE: ALL DIMENSIONS IN INCH (MM) U.S. ECCN: Not Subject to Regulation (N.S.R.)

35462-4-NXH6-Dimensions REV

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	16.0	16.0	16.0	16.0	16.0	16.0	16.0
Compressor Type	Scroll						
REFRIGERANT	(R-410A)						
Control	TXV (R-410A Hard Shutoff)						
Charge (lb)	7.0	7.6	9.75	11.2	9.92	9.87	13.0
COND FAN	Propeller Type, Direct Drive						
Air Discharge	Vertical						
Air Qty (CFM)	2233	3223	3223	3223	3770	4046	4400
Motor HP	1/12	1/12	1/12	1/12	1/3	1/4	1/3
Motor RPM	810	810	810	810	700	810	767
COND COIL							
Face Area (Sq ft)	19.30	20.10	20.10	20.10	20.10	20.10	35.47
Fins per In.	20	20	20	20	20	20	20
Rows	1	1	2	2	2	2	2
Circuits	5	5	6	8	8	8	12
VALVE CONNECT. (In. ID)							
Vapor	5/8		3/4		7/8		7/8
Liquid	3/8						
REFRIGERANT TUBES* (In. OD)							
Vapor (0- 80 Ft Tube Length)	5/8		3/4		7/8		1 1/8
Liquid (0- 80 Ft Tube Length)	3/8						

*Units are rated with 25 ft (7.6 m) of lineset length. See Vapor Line Sizing and Cooling Capacity Loss table when using other sizes and lengths of lineset.

Note: See unit Installation Instruction for proper installation.

ELECTRICAL DATA (208/230- 1- 60, voltage range 197V - 253V)												
UNIT SIZE	V/PH	OPER VOLTS*		COMPR		FAN	MCA	MIN WIRE SIZE †	MIN WIRE SIZE †	MAX LENGTH FT (M) ††	MAX LENGTH FT (M) ††	MAX FUSE** or CKT BRK AMPS
		MAX	MIN	LRA	RLA	FLA		60° C	75° C	60° C	75° C	
18	208/230/1	253	197	56.3	10.5	0.5	13.6	14	14	58 (18)	55 (17)	20
24				62.9	11.9	0.6	15.5	14	14	51 (15)	48 (15)	25
30				72.5	15.4	0.6	19.9	14	14	40 (12)	38 (11)	30
36				75.0	16.8	0.6	21.6	12	12	58 (18)	55 (17)	35
42				123.9	20.0	2.8	27.8	10	10	72 (22)	68 (21)	40
48				130.0	24.4	1.3	31.8	8	10	98 (30)	60 (18)	45
60				152.5	24.9	2.8	33.9	8	10	92 (28)	56 (17)	50

* Permissible limits of the voltage range at which the unit will operate satisfactorily

† If wire is applied at ambient greater than 30°C, consult table 310- 16 of the NEC (NFPA 70). The ampacity of non-metallic-sheathed cable (NM), trade name ROMEX, shall be that of 60°C conditions, per the NEC (NFPA 70) Article 336- 26. If other than uncoated (no-plated), 60 or 75°C insulation, copper wire (solid wire for 10 AWG or smaller, stranded wire for larger than 10 AWG) is used, consult applicable tables of the NEC (NFPA 70).

‡ Length shown is as measured 1 way along wire path between unit and service panel for voltage drop not to exceed 2%.

** Time- Delay fuse.

FLA - Full Load Amps

LRA - Locked Rotor Amps

MCA - Minimum Circuit Amps

RLA - Rated Load Amps

NOTE: Control circuit is 24- V on all units and requires external power source. Copper wire must be used from service disconnect to unit.

All motors/compressors contain internal overload protection.

Complies with 2010 requirements of ASHRAE Standards 90.1

A-WEIGHTED SOUND LEVEL								
Unit Size	Standard Rating (dBA)	TYPICAL OCTAVE BAND SPECTRUM (dB without tone adjustment)						
		125	250	500	1000	2000	4000	8000
18	68	66.2	63.8	64.1	64.6	59.9	57.7	53.6
24	72	63.4	63.3	63.3	70.4	64.5	59.3	55.5
30	72	65.0	65.0	66.0	69.0	65.0	62.0	59.0
36	72	67.7	66.8	68.1	69.9	62.8	60.3	55.2
42	68	63.9	64.1	65.0	64.9	58.2	57.3	56.7
48	73	67.5	67.8	70.1	70.6	63.1	58.5	53.3
60	70	61.7	65.6	68.1	65.8	59.8	58.4	56.1

NOTE: Tested in accordance with AHRI Standard 270- 08 (not listed in AHRI).

A-WEIGHTED SOUND LEVEL WITH ACCESSORY SOUND SHIELD								
Unit Size	Standard Rating (dBA)	TYPICAL OCTAVE BAND SPECTRUM (dB without tone adjustment)						
		125	250	500	1000	2000	4000	8000
18	67	66.2	63.9	63.8	62.3	58.4	56.4	50.3
24	71	65.0	63.7	63.4	68.5	64.7	58.7	52.8
30	70	67.1	66.3	66.6	66.9	62.9	58.1	53.0
36	71	68.2	66.4	67.5	68.4	59.6	58.2	52.4
42	68	63.0	64.2	66.3	63.5	57.1	55.4	55.8
48	71	68.4	67.7	69.7	67.6	59.4	56.4	50.0
60	69	63.7	65.4	67.3	64.9	58.3	56.2	51.9

NOTE: Tested in accordance with AHRI Standard 270- 08 (not listed in AHRI).

VAPOR LINE SIZING AND COOLING CAPACITY LOSS

Acceptable vapor line diameters provide adequate oil return to the compressor while avoiding excessive capacity loss. The suction line diameters shown in the chart below are acceptable for HP systems with R- 410A refrigerant:

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		
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		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		
48		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	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 this area may have height restrictions that limit allowable total equivalent length when outdoor unit is below indoor unit.

REFRIGERANT PIPING LENGTH LIMITATIONS

Maximum Line Lengths:

The maximum allowable total equivalent length for heat pumps varies depending on the vertical separation. See the tables below for allowable lengths depending on whether the outdoor unit is on the same level, above or below the indoor unit.

Maximum Line Lengths for Heat Pump Applications			
	MAXIMUM ACTUAL LENGTH ft (m)	MAXIMUM EQUIVALENT LENGTH† ft (m)	MAXIMUM VERTICAL SEPARATION ft (m)
Units on equal level	200 (61)	250 (76.2)	N/A
Outdoor unit ABOVE indoor unit	200 (61)	250 (76.2)	200 (61)
Outdoor unit BELOW indoor unit	See Table 'Maximum Total Equivalent Length: Outdoor Unit BELOW Indoor Unit'		

† Total equivalent length accounts for losses due to elbows or fitting. See the Long Line Guideline for details.

Maximum Total Equivalent Length‡ - Outdoor Unit BELOW Indoor Unit								
Unit Size	Liquid Line Diameter w/ TXV	HP with R-410A Refrigerant - Maximum Total Equivalent Length† Vertical Separation ft (m) Outdoor unit BELOW indoor unit;						
		0-20 (0 - 6.1)	21-30 (6.4 - 9.1)	31-40 (9.4 - 12.2)	41-50 (12.5 - 15.2)	51-60 (15.5 - 18.3)	61-70 (18.6 - 21.3)	71-80 (21.6 - 24.4)
18 HP with R-410A	3/8	250*	250*	250*	250*	250*	250*	250*
24 HP with R-410A	3/8	250*	250*	250*	250*	250*	250*	250*
30 HP with R-410A	3/8	250*	250*	250*	250*	250*	250*	250*
36 HP with R-410A	3/8	250*	250*	250*	250*	250*	250*	250*
42 HP with R-410A	3/8	250*	250*	250*	250*	250*	250*	150
48 HP with R-410A	3/8	250*	250*	250*	250*	230	160	--
60 HP with R-410A	3/8	250*	225*	190	150	110	--	--

* Maximum actual length not to exceed 200 ft (61 m)

† Total equivalent length accounts for losses due to elbows or fitting. See the Long Line Guideline for details.

-- = outside acceptable range

LONG LINE APPLICATIONS

An application is considered Long Line when the refrigerant level in the system requires the use of accessories to maintain acceptable refrigerant management for systems reliability. Defining a system as long line depends on the liquid line diameter, actual length of the tubing, and vertical separation between the indoor and outdoor units.

For Heat Pump systems, the chart below shows when an application is considered Long Line. Beyond these lengths, long line accessories are required:

HP WITH R-410A REFRIGERANT LONG LINE DESCRIPTION ft (m) Beyond these lengths, long line accessories are required			
Liquid Line Size	Units On Same Level	Outdoor Below Indoor	Outdoor Above Indoor
3/8	80 (24.4)	20 (6.1) vertical or 80 (24.4) total	80 (24.4)

Note: See Long Line Guideline for details

CHARGING SUBCOOLING (TXV- TYPE EXPANSION DEVICE)	
UNIT SIZE	REQUIRED SUBCOOLING °F (°C)
18	8 (4.44)
24	7 (3.89)
30	7 (3.89)
36	10 (5.56)
42	9 (5.00)
48	9 (5.00)
60	7 (3.89)

SIZE 24 EXPANDED DATA

Table with multiple sections: 024 Size Outdoor With FXMAX24**AL Indoor Cooling, 024 Size Outdoor With FXMAX24**AL Indoor Heating. Columns include CFM, temperature ranges (72, 67, 63, etc.), and performance metrics for various models (700, 800, 900) under different conditions (MBht, S/T†, etc.).

See table Notes at end of section

SIZE 30 EXPANDED DATA

		030 Size Outdoor With FXM4X36**AL Indoor Cooling																								
		Outdoor Ambient Temperature - Degrees F, Dry Bulb																								
		85					95					105					115									
CFM		Entering Indoor Temperature - Degrees F, Wet Bulb																								
		72	67	63††	62	57	72	67	63††	62	57	72	67	63††	62	57	72	67	63††	62	57					
875	MBh†	34.74	31.56	29.27	28.78	27.94	33.09	30.07	27.89	27.46	26.87	31.33	28.48	26.43	26.07	25.74	29.42	26.78	24.87	24.61	24.51	27.35	24.93	23.18	23.19	23.15
	S/T†	0.53	0.72	0.74	0.93	1.00	0.54	0.73	0.76	0.95	1.00	0.55	0.75	0.78	0.98	1.00	0.56	0.77	0.80	0.99	1.00	0.57	0.80	0.82	1.00	1.00
	AMPS*	7.76	7.75	7.75	7.75	7.75	8.62	8.62	8.62	8.62	8.62	9.58	9.59	9.59	9.59	9.59	10.67	10.68	10.69	10.69	10.69	11.93	11.94	11.94	11.94	11.94
	HI PR	259	256	254	253	253	300	297	294	294	293	344	341	338	338	337	393	389	386	386	386	446	442	439	439	439
	LO PR	154	141	131	129	126	157	143	133	132	129	159	146	135	134	133	162	148	138	137	136	165	151	140	141	141
975	MBh†	35.24	32.04	29.72	29.32	28.87	33.54	30.49	28.30	27.97	27.74	31.70	28.85	26.78	26.69	26.53	29.73	27.08	25.17	25.26	25.23	27.59	25.18	23.44	23.81	23.78
	S/T†	0.54	0.74	0.77	0.97	1.00	0.55	0.76	0.79	0.99	1.00	0.56	0.78	0.81	0.99	1.00	0.57	0.80	0.83	1.00	1.00	0.59	0.83	0.86	1.00	1.00
	AMPS*	7.91	7.90	7.90	7.90	7.90	8.76	8.77	8.77	8.77	8.77	9.72	9.73	9.73	9.73	9.74	10.82	10.83	10.83	10.83	10.83	12.08	12.08	12.09	12.09	12.09
	HI PR	260	257	254	254	254	301	297	295	294	294	345	341	339	339	338	394	390	387	387	387	447	443	440	441	440
	LO PR	157	144	134	132	130	159	146	136	135	134	162	148	138	138	137	164	151	140	141	141	167	153	143	145	145
1075	MBh†	35.72	32.48	30.16	29.89	29.73	33.95	30.89	28.69	28.59	28.55	32.06	29.20	27.13	27.33	27.28	30.04	27.34	25.48	25.93	25.90	27.84	25.45	23.70	24.41	24.39
	S/T†	0.56	0.77	0.80	1.00	1.00	0.57	0.79	0.81	1.00	1.00	0.58	0.81	0.84	1.00	1.00	0.59	0.84	0.86	1.00	1.00	0.61	0.87	0.89	1.00	1.00
	AMPS*	7.95	7.94	7.94	7.94	7.94	8.80	8.80	8.80	8.80	8.80	9.76	9.77	9.77	9.77	9.77	10.85	10.86	10.87	10.87	10.87	12.11	12.12	12.12	12.12	12.12
	HI PR	260	257	255	255	255	301	298	295	295	295	346	342	339	340	340	394	390	388	388	388	447	443	440	442	442
	LO PR	159	146	136	135	134	161	148	138	138	137	164	150	140	141	141	166	153	142	145	145	169	155	144	149	149

		030 Size Outdoor With FXM4X36**AL Indoor Heating																							
		Outdoor Ambient Temperature - Degrees F, Dry Bulb																							
		75					85					95					105								
CFM		Entering Indoor Temperature - Degrees F, Wet Bulb																							
		72	67	63††	62	57	72	67	63††	62	57	72	67	63††	62	57	72	67	63††	62	57				
875	MBh†	11.90	11.78	11.68	14.54	14.40	14.26	17.54	17.36	17.18	20.93	20.71	20.49	24.70	24.42	24.17	28.81	28.49	28.17	33.22	32.85	32.47	37.83	37.43	36.94
	T/R	15.00	14.90	14.70	18.10	17.90	17.60	21.50	21.20	20.90	25.20	24.90	24.60	29.30	28.90	28.60	33.70	33.20	32.80	38.30	37.80	37.20	43.00	42.40	41.80
	AMPS*	7.70	8.11	8.47	7.87	8.27	8.67	8.07	8.47	8.89	8.26	8.68	9.11	8.48	8.90	9.36	8.71	9.14	9.60	8.96	9.40	9.87	9.21	9.67	10.14
	HI PR	272	293	313	282	302	323	295	315	336	308	329	350	323	344	366	340	361	383	359	380	402	379	401	422
	LO PR	38	38	38	49	49	50	62	62	62	76	77	77	93	93	93	111	111	111	131	131	132	153	154	154
975	MBh†	11.93	11.81	11.70	14.56	14.42	14.28	17.56	17.38	17.20	20.95	20.72	20.50	24.74	24.46	24.18	28.88	28.55	28.22	33.33	32.95	32.57	38.07	37.62	37.28
	T/R	13.50	13.40	13.20	16.20	16.10	15.90	19.30	19.00	18.80	22.70	22.40	22.10	26.30	26.00	25.60	30.30	29.90	29.50	34.50	34.00	33.50	38.80	38.30	37.80
	AMPS*	7.68	8.07	8.43	7.83	8.22	8.63	7.98	8.42	8.81	8.16	8.56	9.00	8.34	8.76	9.20	8.53	8.96	9.41	8.73	9.17	9.63	8.94	9.37	9.86
	HI PR	267	288	307	277	297	318	287	309	329	300	320	341	313	334	355	328	349	371	345	366	388	362	383	407
	LO PR	38	38	38	49	49	50	62	62	62	76	77	77	93	93	93	111	111	111	131	131	132	154	154	155
1075	MBh†	11.96	11.77	11.73	14.59	14.44	14.30	17.59	17.40	17.22	20.98	20.74	20.51	24.77	24.49	24.21	28.94	28.60	28.27	33.44	33.05	32.66	38.33	37.93	37.35
	T/R	12.30	12.10	12.00	14.80	14.60	14.40	17.50	17.30	17.10	20.60	20.30	20.00	23.90	23.60	23.30	27.50	27.20	26.80	31.40	30.90	30.50	35.40	35.00	34.40
	AMPS*	7.66	8.14	8.43	7.81	8.20	8.61	7.95	8.35	8.77	8.09	8.49	8.92	8.24	8.66	9.09	8.40	8.82	9.27	8.57	9.00	9.45	8.75	9.19	9.65
	HI PR	264	288	304	272	292	313	282	302	323	293	313	334	305	326	347	319	339	361	333	354	376	350	371	393
	LO PR	38	38	38	49	49	50	62	62	62	76	77	77	93	93	93	110	111	111	130	131	131	153	154	154

See table Notes at end of section

SIZE 36 EXPANDED DATA

		036 Size Outdoor With FXM4X48**AL Indoor Cooling																								
		Outdoor Ambient Temperature - Degrees F, Dry Bulb																								
		75			85			95			105			115												
CFM		Entering Indoor Temperature - Degrees F, Wet Bulb																								
		72	67	63††	62	57	72	67	63††	62	57	72	67	63††	62	57	72	67	63††	62	57					
1050	MBht	42.58	38.21	35.13	34.44	33.22	40.39	36.25	33.34	32.73	31.88	38.17	34.27	31.53	31.00	30.52	35.86	32.22	29.66	29.26	29.08	33.42	30.04	27.68	27.57	27.53
	S/T†	0.53	0.72	0.75	0.94	1.00	0.54	0.74	0.77	0.97	1.00	0.55	0.76	0.79	0.99	1.00	0.56	0.78	0.81	1.02	1.00	0.57	0.80	0.83	1.00	1.00
	AMPS*	9.43	9.24	9.12	9.10	9.06	10.57	10.38	10.26	10.24	10.21	11.74	11.54	11.43	11.41	11.39	13.02	12.83	12.71	12.70	12.69	14.49	14.30	14.20	14.20	14.19
	HI PR	275	270	266	266	264	317	311	307	306	305	362	356	352	351	350	411	405	401	400	400	465	459	454	454	454
	LO PR	153	140	131	129	125	155	143	133	131	128	158	145	135	134	132	161	147	137	136	136	164	150	140	140	140
1200	MBht	43.63	39.14	36.00	35.41	34.81	41.32	37.08	34.11	33.64	33.36	38.97	35.00	32.21	31.94	31.88	36.54	32.84	30.25	30.38	30.33	33.99	30.58	28.18	28.69	28.66
	S/T†	0.55	0.76	0.78	0.99	1.00	0.56	0.77	0.80	1.01	1.00	0.57	0.80	0.82	1.00	1.00	0.58	0.82	0.85	1.00	1.00	0.60	0.85	0.88	1.00	1.00
	AMPS*	9.61	9.41	9.28	9.26	9.24	10.75	10.54	10.41	10.40	10.39	11.91	11.71	11.58	11.57	11.57	13.19	12.98	12.86	12.87	12.87	14.65	14.46	14.34	14.37	14.37
	HI PR	277	271	268	267	266	318	312	308	308	307	363	357	353	353	353	413	406	402	402	402	466	460	455	456	456
	LO PR	156	143	134	132	130	159	146	136	135	134	161	148	138	137	137	164	150	140	141	141	167	153	143	145	145
1350	MBht	44.45	39.88	36.68	36.31	36.17	42.03	37.73	34.71	34.67	34.61	39.59	35.56	32.75	33.09	33.04	37.06	33.34	30.72	31.42	31.38	34.41	30.98	28.58	29.63	29.59
	S/T†	0.57	0.79	0.82	0.99	1.00	0.58	0.81	0.84	1.00	1.00	0.59	0.83	0.86	1.00	1.00	0.60	0.86	0.89	1.00	1.00	0.62	0.89	0.92	1.00	1.00
	AMPS*	9.78	9.56	9.43	9.42	9.41	10.91	10.69	10.56	10.57	10.56	12.07	11.86	11.73	11.75	11.74	13.35	13.14	13.01	13.04	13.04	14.81	14.61	14.49	14.54	14.54
	HI PR	278	272	269	268	268	319	313	309	309	309	364	358	354	355	355	414	407	403	404	404	467	461	456	458	458
	LO PR	159	146	136	135	135	161	148	138	138	138	164	150	140	142	142	166	153	142	146	145	169	155	145	150	150
CFM		-3			7			17			27			37			47			57			67			
		036 Size Outdoor With FXM4X48**AL Indoor Heating																								
1050	MBht	12.02	11.39	10.74	16.26	15.69	15.11	20.98	20.56	19.47	25.06	24.66	24.28	29.70	29.23	28.76	35.13	34.55	33.99	41.72	40.96	40.52	49.55	48.73	47.92	
	T/R	11.50	10.90	10.20	15.50	14.90	14.30	19.80	19.40	18.30	23.60	23.20	22.70	27.80	27.30	26.80	32.70	32.10	31.50	38.60	37.80	37.30	45.60	44.80	43.90	
	AMPS*	8.10	8.47	8.84	8.63	9.03	9.43	9.13	9.57	9.93	9.48	9.95	10.43	9.89	10.37	10.86	10.42	10.90	11.40	11.17	11.65	12.21	12.00	12.50	13.03	
	HI PR	229	244	259	245	261	277	263	280	295	279	297	316	297	316	335	320	339	359	349	368	389	382	401	421	
	LO PR	39	39	39	50	50	50	62	62	63	76	76	77	92	92	93	109	109	110	110	128	129	130	149	150	151
1200	MBht	12.24	11.59	10.95	16.51	15.94	15.35	21.20	20.80	19.83	25.34	24.92	24.51	30.05	29.56	29.09	35.66	35.00	34.42	42.37	41.59	41.14	50.02	49.25	48.46	
	T/R	10.20	9.70	9.10	13.70	13.20	12.70	17.50	17.20	16.30	20.90	20.50	20.10	24.60	24.20	23.70	29.00	28.40	27.90	34.30	33.60	33.20	40.30	39.60	38.90	
	AMPS*	8.14	8.51	8.89	8.63	9.03	9.44	9.08	9.52	9.90	9.39	9.86	10.34	9.75	10.23	10.72	10.24	10.72	11.21	10.85	11.37	11.92	11.70	12.19	12.71	
	HI PR	226	241	257	240	256	273	257	274	289	271	288	307	287	306	325	309	327	347	332	352	374	365	385	404	
	LO PR	39	39	39	50	50	50	62	62	63	76	76	77	92	92	93	109	109	110	110	128	129	129	148	149	150
1350	MBht	12.42	11.78	11.12	16.74	16.15	15.56	21.41	21.01	20.57	25.57	25.14	24.73	30.35	29.85	29.36	35.96	35.36	34.77	42.75	42.06	41.32	50.20	49.49	48.74	
	T/R	9.20	8.70	8.20	12.40	11.90	11.50	15.80	15.40	15.10	18.70	18.40	18.00	22.10	21.70	21.30	26.00	25.50	25.10	30.80	30.20	29.60	36.00	35.40	34.80	
	AMPS*	8.19	8.57	8.95	8.65	9.06	9.47	9.06	9.51	9.97	9.33	9.81	10.29	9.66	10.15	10.63	10.12	10.60	11.09	10.68	11.17	11.69	11.50	11.99	12.50	
	HI PR	224	239	254	237	253	269	251	269	287	264	282	301	280	298	317	300	318	337	321	340	360	353	372	392	
	LO PR	39	39	39	49	50	50	62	62	62	76	76	77	92	92	92	109	109	110	110	128	128	129	147	148	149

See table Notes at end of section

- † Total capacities are net (I.D blower heat added for heating, subtracted for cooling) system capacities based on 25' line set. If additional tubing length and/or indoor unit is located above outdoor unit, a slight variation in capacity may occur.
- * System amps are total of indoor and outdoor amps
- ‡ S/T are based on 80 F db entering air at the indoor coil. For sensible capacities at other than 80 F db, deduct 835 Btuh per 1000 cfm of indoor coil air from MBhxS/T for each degree below 80 F, or add 835 Btuh per 1000 cfm of indoor coil air from MBhxS/T for each degree above 80 F
- †† At TVA rating indoor condition (75 F db/ 63 F wb), All other indoor air temperatures are at 80 F db
- T/R - Temp Rise is based on 25 foot line set
- If additional tubing length and/or indoor unit is located above indoor unit, a slight variation in Temp Rise may occur

COOLING & HEATING PERFORMANCE FOR COMBINATION RATINGS

For complete ratings information, use the AHRI website directory search: www.AHRIdirectory.org. New ratings may be listed online before Specification Sheets are updated.

Outdoor Model	Indoor Model *Tested Combo	Factory Installed	Cooling 95°F (35°C)			Heat 47°F (8.3°C)		Heat 17°F (-8.3°C)		HSPF
			Capacity BTU/hr	SEER	EER	BTU/hr	COP	BTU/hr	COP	
				Standard						
NXH618GKA101	FXM4X18**AL	TXV	18000	16	13	17800	3.92	10800	2.60	8.5
NXH624GKA101	FXM4X24**AL	TXV	23000	16	13	22800	3.90	14200	2.60	8.5
NXH630GKA101	FXM4X36**AL	TXV	29200	16	13	28600	3.72	17400	2.56	9.0
NXH636GKA101	FXM4X48**AL	TXV	35000	16	13	35000	4.16	20800	2.86	8.5
NXH642GKA101	FXM4X48**AL	TXV	40500	16	13	41000	3.94	25400	2.82	8.5
NXH648GKA101	FXM4X60**AL	TXV	48000	16	13	46500	3.84	29600	2.74	9.0
NXH660GKA101	FXM4X60**AL	TVX	55000	16	13	55000	3.82	33600	2.82	8.5

* AHRI= Air Conditioning, Heating & Refrigeration Institute

Ratings are net values reflecting the effects of circulating fan heat. Supplemental electric heat is not included.

Ratings are based on:

Cooling Standard: 80°F(27°C) db 67°F(19°C) wb indoor entering air temperature and 95°F(35°C) db air entering outdoor unit.

High---Temp Heating Standard: 70°F(21°C) db indoor entering air temperature and 47°F(8°C) db 43°F(6°C) wb air entering outdoor unit.

Low---Temp Heating Standard: 70°F(21°C) db indoor entering air temperature and 17°F(-8°C) db 15° F(-9°C) wb air entering outdoor unit.

COP — Coefficient of Performance

EER — Energy Efficiency Ratio

HSPF — Heating Seasonal Performance Factor

SEER — Seasonal Energy Efficiency Ratio

ACCESSORY USAGE GUIDELINES

Accessory	REQUIRED FOR LOW-AMBIENT COOLING APPLICATIONS (Below 55°F / 12.8°C)	REQUIRED FOR LONG LINE APPLICATIONS*	REQUIRED FOR SEA COAST APPLICATIONS (Within 2 miles / 3.22 km)
Accumulator	Standard	Standard	Standard
Compressor Start Assist Capacitor and Relay	Yes	Yes	No
Crankcase Heater	Yes	Yes	No
Evaporator Freeze Thermostat	Yes	No	No
Isolation Relay	Yes	No	No
Liquid Line Solenoid Valve	No	See Long-Line Application Guideline	No
Low Ambient Switch	Yes‡	No	No
Support Feet	Recommended	No	Recommended

* For tubing line sets between 80 and 200 ft. (24.38 and 60.96 m) and/or 20 ft. (6.09 m) vertical differential, refer to Residential Piping and Longline Guideline.

‡ In units equipped with ECM OD motor, motor needs to be replaced per unit accessory guide to work properly. This motor kit comes with a new defrost board that also needs to be installed. Unit will not meet AHRI rated efficiency once motor and defrost board are replaced to use this accessory.

ACCESSORIES

Part Number	Description	Used On Size
NASA00101IK	ISLN Relay Kit	ALL
NASA00601CH	Crankcase Heater for Scroll Compressor (208/230 V)	18, 24, 30
NASA00501CH	Crankcase Heater for Scroll Compressor (208/230 V)	42, 48
NASA001SC	Start Component - PTC Device	ALL
NASA00201FS	Evaporator Freeze Thermostat	ALL
NASA001LS	Liquid Line Solenoid Valve Kit, HP, R- 22 or R- 410A	ALL
NASA001TD	Time Delay Relay, Indoor Blower	ALL
NASA001AC	Anti- Cycle Timer (5 minute delay)	ALL
NASA003SC	Hard Start Kit (Capacitor & Relay)	36, 60
NASA007SC	Hard Start Kit (Capacitor & Relay)	18, 24, 30, 42, 48
NASA00101PM*	PSC Fan Motor Kit (motor, fan, and defrost board)	42, 60
NASA401LA	Low Ambient Kit (Pressure Switch), R- 410A	ALL
NASA00201SF	Support Feet, 4" (102mm) tall, 5 included	ALL
NASA00201SJ	Sound Blanket Kit	18, 24, 30, 36
NASA00101SJ	Sound Blanket Kit	42, 48, 60
NAEA40501TX	TXV Kit, R- 410A - for use with copper or tin fan coils	18, 24, 30
NAEA40601TX	TXV Kit, R- 410A - for use with copper or tin fan coils	36, 42
NAEA40701TX	TXV Kit, R- 410A - for use with copper or tin fan coils	48, 60
NAEB40501TX	TXV Kit, R- 410A - for use with aluminum fan coils	18, 24, 30
NAEB40601TX	TXV Kit, R- 410A - for use with aluminum fan coils	36, 42
NAEB40701TX	TXV Kit, R- 410A - for use with aluminum fan coils	48, 60
NASA00106SS	Snow Stand Kit	ALL
TSTAT0201CW	Observer® Self Configuring Communicating Wall Control	ALL

* Required to use NASA401LA Low Ambient Kit with this unit. Unit will not meet AHRI rated efficiency once this accessory is installed.