N4A6

Product Specifications

EFFICIENT UP TO 16.5 SEER/12.2–13.0 EER AIR CONDITIONER

ENVIRONMENTALLY SOUND R–410A REFRIGERANT

1–1/2 THRU 5 TONS SPLIT SYSTEM

208/230 Volt, 1–phase, 60 Hz

REFRIGERATION CIRCUIT

- Scroll compressors on all models
- Filter–Drier supplied with every unit for field installation
- 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 (hail guard)

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 residential applications only. See warranty certificate for complete details and restrictions, including warranty coverage for other applications.

AHRI CERTIFIED™ www.ahridirectory.org

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 .

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Model Number	Size (tons)	Nominal BTU/hr	Min. Circuit Ampacity	Max. Fuse or Breaker	Operating Dimensions depth x width x height in. (mm)	Ship / Operating Weight lbs.(kg)
N4A618GKA	1–1/2	18,000	11.7	20	25–3/4 x 25–3/4 x 25 (654 x 654 x 635)	145/122 (66/55)
N4A624GKA	2	24,000	14.4	25	25–3/4 x 25–3/4 x 32–5/16 (654 x 654 x 821)	148/123 (67/56)
N4A630GKA	2–1/2	30,000	16.8	25	31–3/16 x 31–3/16 x 39–1/8 (792 x 792 x 994)	201/164 (74/91)
N4A636GKA	3	36,000	18.2	30	35 x 35 x 28–5/16 (889 x 889 x 719)	204/165(75/93)
N4A642GKA	3–1/2	42,000	21.8	35	35 x 35 x 28–5/16 (889 x 889 x 719)	247/210 (95/112)
N4A648GKA	4	48,000	26.1	40	35 x 35 x 39–1/8 (889 x 889 x 993)	317/264 (120/144)
N4A660GKA	5	60,000	28.0	40	35 x 35 x 45–15/16 (889 x 889 x 1167)	272/310 (123/141)

OUTDOOR UNIT MODEL NUMBER IDENTIFICATION GUIDE

Digit Position:	1	2	3	4	5, 6	7	8	9	10	11	12
Example Part Number:	**N**	**4**	**A**	**6**	**18**	**G**	**K**	**A**	**1**	**0**	**0**

C = Day & Night Mainline
N = Day & Night Entry — **BRANDING**

4 = R–410A — **REFRIGERANT**

A = Air Conditioner
H = Heat Pump — **TYPE**

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
H = 208/230–3–60
L = 460–3–60
S = 575–3–60 — **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**	**0 1**	**01**	**C H**

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)

PHYSICAL DATA

UNIT SIZE	18GKA	24GKA	30GKA	36GKA	42GKA	48GKA	60GKA
Compressor Type	Scroll						
REFRIGERANT	R−410A						
Control	TXV (R−410A Hard Shutoff)						
Charge lb (kg)	3.83 (1.74)	4.95 (2.25)	6.82 (3.09)	6.75 (3.06)	8.60 (3.90)	13.00 (5.90)	14.50 (6.58)
COND FAN	Propeller Type, Direct Drive						
Air Discharge	Vertical						
Air Qty (CFM)	1700	2196	2614	3810	3337	4046	4046
Motor HP	1/12	1/10	1/10	1/5	1/8	1/4	1/4
Motor RPM	1100	800	1100	810	810	800	800
COND COIL							
Face Area (Sq ft)	9.85	12.1	21.56	17.6	17.6	25.15	30.15
Fins per In.	25	25	25	25	20	20	20
Rows	1	1	1	1	2	2	2
Circuits	3	4	5	4	7	7	8
VALVE CONNECT. (In. ID)							
Vapor	3/4”	3/4”	3/4”	7/8”	7/8”	7/8”	7/8”
Liquid	3/8”						
REFRIGERANT TUBES (In. OD)							
Rated Vapor*	3/4”	3/4”	3/4”	7/8”	7/8”	7/8”	1−1/8”
Max Liquid Line	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.

† See *Liquid Line Sizing For Cooling Only Systems with R−410A Refrigerant* tables.

ELECTRICAL DATA

UNIT SIZE − SERIES	V/PH	OPER VOLTS*		COMPR		FAN	MCA	MAX FUSE† or CKT BRK AMPS
		MAX	MIN	LRA	RLA	FLA		
18GKA	208/230/1−60	253	197	47.5	9.0	0.40	11.7	20
24GKA				62.9	10.9	0.77	14.4	25
30GKA				67.8	12.8	0.75	16.8	25
36GKA				79.0	13.6	1.20	18.2	30
42GKA				109.0	16.7	0.90	21.8	35
48GKA				109.0	19.9	1.20	26.1	40
60GKA				135.0	21.4	1.20	28.0	40

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

† Time−Delay fuse.

FLA − Full Load Amps
LRA − Locked Rotor Amps
MCA − Minimum Circuit Amps
RLA − Rated Load Amps

NOTE: Control circuit is 24V 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 POWER (dBA)

A−WEIGHTED SOUND POWER (dBA) WITH SOUND SHIELD								
UNIT SIZE	STANDARD RATING	TYPICAL OCTAVE BAND SPECTRUM (without tone adjustment)						
		125	250	500	1000	2000	4000	8000
18	75	45	53	58	62	61	55	49
24	72	48	55	59	63	59	55	49
30	73	50	54	62	66	60	57	51
36	69	48	59	57	59	56	51	40
42	72	63	57	59	61	57	55	51
48	73	55	61	64	63	60	57	48
60	73	54	59	63	63	60	56	48

A−WEIGHTED SOUND POWER (dBA) WITHOUT SOUND SHIELD								
UNIT SIZE	STANDARD RATING	TYPICAL OCTAVE BAND SPECTRUM (without tone adjustment)						
		125	250	500	1000	2000	4000	8000
18	75	47	56	60	64	60	54	47
24	74	48	54	60	64	59	56	50
30	74	48	55	62	67	61	57	51
36	71	49	60	59	61	59	55	47
42	74	64	57	60	61	58	56	53
48	73	55	61	64	63	60	57	48
60	73	54	59	63	63	60	56	48

NOTE: Tested in compliance with AHRI 270−1995 (not listed with AHRI)

METERING DEVICE

UNIT SIZE−SERIES	INDOOOR	REQUIRED SUBCOOLING °F (°C)
18	TXV*	13.0 (7.22)
24		10.0 (5.56)
30		12.5 (6.94)
36		11.0 (6.11)
42		10.0 (5.56)
48		8.0 (4.44)
60		9.0 (5.00)

* TXV must be ordered separately when indoor coil is not equipped with a TXV. TXV must be hard−shutoff type.

REFRIGERANT PIPING LENGTH LIMITATIONS

Liquid Line Sizing and Maximum Total Equivalent Lengths† for Cooling Only Systems with R−410A Refrigerant:

The maximum allowable length of a residential split system depends on the liquid line diameter and vertical separation between indoor and outdoor units.

See Table below for liquid line sizing and maximum lengths :

Maximum Total Equivalent Length
Outdoor Unit BELOW Indoor Unit

Size	Liquid Line Connection	Liquid Line Diam. w/ TXV	AC with R−410A Refrigerant Maximum Total Equivalent Length†: Outdoor unit BELOW Indoor Vertical Separation ft (m)								
			0−5 (0−1.5)	6−10 (1.8−3.0)	11−20 (3.4−6.1)	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)
18000 AC with R−410A	3/8	1/4	150	150	125	100	100	75	−−	−−	−−
		5/16	250*	250*	250*	250*	250*	250*	250*	225*	150
		3/8	250*	250*	250*	250*	250*	250*	250*	250*	250*
24000 AC with R−410A	3/8	1/4	75	75	75	50	50	−−	−−	−−	−−
		5/16	250*	250*	250*	250*	250*	225*	175	125	100
		3/8	250*	250*	250*	250*	250*	250*	250*	250*	250*
30000 AC with R−410A	3/8	1/4	30	−−	−−	−−	−−	−−	−−	−−	−−
		5/16	175	225*	200	175	125	100	75	−−	−−
		3/8	250*	250*	250*	250*	250*	250*	250*	250*	250*
36000 AC with R−410A	3/8	5/16	175	150	150	100	100	100	75	−−	−−
		3//8	250*	250*	250*	250*	250*	250*	250*	250*	250*
42000 AC with R−410A	3/8	5/16	125	100	100	75	75	50	−−	−−	−−
		3/8	250*	250*	250*	250*	250*	250*	250*	250*	150
48000 AC with R−410A	3/8	3/8	250*	250*	250*	250*	250*	250*	230	160	−−
60000 AC with R−410A	3/8	3/8	250*	250*	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

Maximum Total Equivalent Length
Outdoor Unit ABOVE Indoor Unit

Size	Liquid Line Connection	Liquid Line Diam. w/ TXV	AC with R−410A Refrigerant Maximum Total Equivalent Length†: Outdoor unit ABOVE Indoor Vertical Separation ft (m)							
			25 (7.6)	26−50 (7.9−15.2)	51−75 (15.5−22.9)	76−100 (23.2−30.5)	101−125 (30.8−38.1)	126−150 (38.4−45.7)	151−175 (46.0−53.3)	176−200 (53.6−61.0)
18000 AC with R−410A	3/8	1/4	175	250*	250*	250*	250*	250*	250*	250*
		5/16	250*	250*	250*	250*	250*	250*	250*	250*
		3/8	250*	250*	250*	250*	250*	250*	250*	250*
24000 AC with R−410A	3/8	1/4	100	125	175	200	225*	250*	250*	250*
		5/16	250*	250*	250*	250*	250*	250*	250*	250*
		3/8	250*	250*	250*	250*	250*	250*	250*	250*
30000 AC with R−410A	3/8	1/4	30	−−	−−	−−	−−	−−	−−	−−
		5/16	250*	250*	250*	250*	250*	250*	250*	250*
		3/8	250*	250*	250*	250*	250*	250*	250*	250*
36000 AC with R−410A	3/8	5/16	225*	250*	250*	250*	250*	250*	250*	250*
		3/8	250*	250*	250*	250*	250*	250*	250*	250*
42000 AC with R−410A	3/8	5/16	175	200	250*	250*	250*	250*	250*	250*
		3/8	250*	250*	250*	250*	250*	250*	250*	250*
48000 AC with R−410A	3/8	3/8	250*	250*	250*	250*	250*	250*	250*	250*
60000 AC with R−410A	3/8	3/8	250*	250*	250*	250*	250*	250*	250*	250*

*** 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

REFRIGERANT CHARGE ADJUSTMENTS

Liquid Line Size	R–410A Charge oz/ft
3/8	0.60 (Factory charge for lineset = 9 oz)
5/16	0.40
1/4	0.27

Units are factory charged for 15 ft (4.6 m) of 3/8" liquid line. The factory charge for 3/8" lineset 9 oz. When using other length or diameter liquid lines, charge adjustments are required per the chart above.

Charging Formula:

[(Lineset oz/ft x total length) – (factory charge for lineset)] = charge adjustment

Example 1: System has 15 ft of line set using existing 1/4" liquid line. What charge adjustment is required?

Formula: (.27 oz/ft x 15ft) – (9 oz) = (-4.95) oz.

Net result is to remove 4.95 oz of refrigerant from the system

Example 2: System has 45 ft of existing 5/16" liquid line. What is the charge adjustment?

Formula: (.40 oz/ft. x 45ft) – (9 oz.) = 9 oz.

Net result is to add 9 oz of refrigerant to the system

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. See Accessory Usage Guideline table for required accessories. 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 Air Conditioner systems, the chart below shows when an application is considered Long Line.

AC 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
1/4	No accessories needed within allowed lengths	No accessories needed within allowed lengths	175 (53.3)
5/16	120 (36.6)	50 (15.2)	120 (36.6)
3/8	80 (24.4)	35 (10.7)	80 (24.4)

Note: See Long Line Guideline for details

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 AC systems with R–410A refrigerant:

Unit Nominal Size (Btuh)	Maximum Liquid Line Diameters (In. OD)	Vapor Line Diameters (In. OD)	Cooling Capacity Loss (%) Total Equivalent Line Length ft. (m)								
			26–50 (7.9–15.2)	51–80 (15.5–24.4)	81–100 (24.7–30.5)	101–125 (30.8–38.1)	126–150 (38.4–45.7)	151–175 (46.0–53.3)	176–200 (53.6–61.0)	201–225 (61.3–68.6)	226–250 (68.9–76.2)
18000 1 Stage AC with R–410A	3/8	1/2	1	2	3	5	6	7	8	9	11
		5/8	0	1	1	1	2	2	2	3	3
		3/4	0	0	0	0	1	1	1	1	1
24000 1 Stage AC with R–410A	3/8	5/8	0	1	2	2	3	3	4	5	5
		3/4	0	0	1	1	1	1	1	2	2
		7/8	0	0	0	0	0	1	1	1	1
30000 1 Stage AC with R–410A	3/8	5/8	1	2	3	3	4	5	6	7	8
		3/4	0	0	1	1	1	2	2	2	3
		7/8	0	0	0	0	1	1	1	1	1
36000 1 Stage AC with R–410A	3/8	5/8	1	2	4	5	6	8	9	10	12
		3/4	0	1	1	2	2	3	3	4	4
		7/8	0	0	0	1	1	1	1	2	2
42000 1 Stage AC with R–410A	3/8	3/4	0	1	2	2	3	4	4	5	6
		7/8	0	0	1	1	1	2	2	2	3
		1 1/8	0	0	0	0	0	0	0	0	0
48000 1 Stage AC with R–410A	3/8	3/4	0	1	2	3	4	5	5	6	7
		7/8	0	0	1	1	2	2	2	3	3
		1 1/8	0	0	0	0	0	0	0	1	1
60000 1 Stage AC with R–410A	3/8	3/4	1	2	4	5	6	7	9	10	11
		7/8	0	1	2	2	3	4	4	5	5
		1 1/8	0	0	0	1	1	1	1	1	1

Applications in this area may be long line and may have height restrictions. See the *Residential Piping and Long Line Guideline*.

UNIT SIZE – SERIES	INDOOR MODEL	AHRI STANDARD RATINGS						FURNACE MODEL
		COOLING						
		CAPACITY	FACTORY ENHANCE	SEER			EER	
				STANDARD	TDR	TXV		
18GKA	EA*4X19L17A*	17,200	TXV		14.00		12.20	
24GKA	EA*4X25L17A*	24,000	TXV		14.50		12.50	
30GKA	EA*4X37L21A*	29,400	TXV		14.50		12.50	
36GKA	EA*4X37L21A*	35,000	TXV		14.50		12.50	
42GKA	EA*4X43L21A*	40,000	TXV		14.50		12.50	
48GKA	EA*4X60L24A*	46,000	TXV		14.50		12.50	
60GKA	EN(A,D)4X61L24**	55,000	TXV		15.00		13.00	

AHRI — Air Conditioning, Heating & Refrigeration Institute

EER — Energy Efficiency Ratio – 80°F (26.6°C) indoor db/67°F (19.4°C) indoor wb & 95°F (35°C) outdoor wb.

SEER — Seasonal Energy Efficiency Ratio

TDR —Time–Delay Relay. In most cases, only one method should be used to achieve TDR function. Using more than one method in a system may cause degradation in performance. Use either the accessory Time–Delay Relay or a furnace equipped with TDR. Most ICP furnaces are equipped with TDR.

NOTES:

1. Ratings are net values reflecting the effects of circulating fan motor heat. Supplemental electric heat is not included.
2. Tested outdoor/indoor combinations have been tested in accordance with DOE test procedures for central air conditioners. Ratings for other combinations are determined under DOE computer simulation procedures.
3. Determine actual CFM values obtainable for your system by referring to fan performance data in fan coil or furnace coil literature.
4. Do not apply with capillary tube coils as performance and reliability are significantly affected.

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 Day and Night database:
http://www.icpeqp.com/AHRIratings/ratings.aspx?Brand=DayAndNight

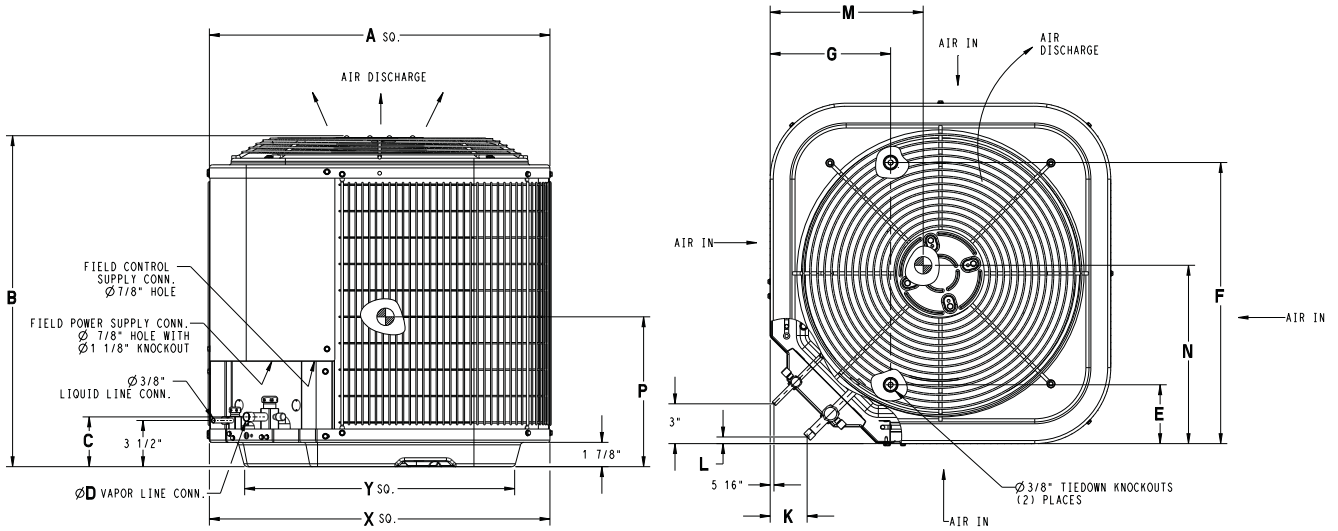
Or scan this QR code:

DIMENSIONS – ENGLISH

NOTES:

1. ALLOW 30" CLEARANCE TO SERVICE SIDE OF UNIT, 48" ABOVE UNIT, 6" ON ONE SIDE, 12" ON REMAINING SIDE, AND 24" BETWEEN UNITS FOR PROPER AIRFLOW.
2. MINIMUM OUTDOOR OPERATING AMBIENT IN COOLING MODE IS 55°F, MAX. 125°F.
3. SERIES DESIGNATION IS THE 10TH POSITION OF THE UNIT MODEL NUMBER.
4. CENTER OF GRAVITY ⊕.
5. ALL DIMENSIONS ARE IN "INCHES" UNLESS NOTED.

UNIT SIZE	"X" MIN GROUND MOUNTING PAD APPLICATION DIMENSIONS	"Y" MIN ROOF-TOP MOUNTING PAD APPLICATION DIMENSIONS
-	23 1/8"	17 3/4"
18, 24	25 3/4"	20 7/16"
30	31 3/16"	23"
36, 42, 48, 60	35"	26 3/4"



UNIT	SERIES	ELECTRICAL CHARACTERISTICS				A	B	C	D	E	F	G	K	L	M	N	P	OPERATING WEIGHT (LBS)	SHIPPING WEIGHT (LBS)	SHIPPING DIMENSIONS (L x W x H)
N4A618	A	X	O	O	O	25 3/4"	25"	3 3/4"	3/4"	4 7/16"	21 1/4"	9 1/8"	2 13/16"	1/2"	13"	15 1/4"	9 3/4"	122	145	27 7/8" X 27 7/8" X 32 9/16"
N4A624	A	X	O	O	O	25 3/4"	32 5/16"	3 3/4"	3/4"	4 7/16"	21 1/4"	9 1/8"	2 13/16"	1/2"	13 3/8"	13 1/4"	15 1/16"	123	148	27 7/8" X 27 7/8" X 36 5/8"
N4A630	A	X	O	O	O	31 3/16"	39 1/8"	3 3/4"	3/4"	6 9/16"	24 11/16"	9 1/8"	2 13/16"	1/2"	15 3/4"	16"	13 7/16"	164	201	33 3/8" X 33 3/8" X 42 3/4""
N4A636	A	X	O	O	O	35"	28 5/16"	3 7/8"	7/8"	6 9/16"	28 7/16"	9 1/8"	2 15/16"	5/8"	16"	16"	13"	165	204	36 1/8" X 36 1/8" X 32 9/16"
N4A642	A	X	O	O	O	35"	28 5/16"	3 7/8"	7/8"	6 9/16"	28 7/16"	9 1/8"	2 15/16"	5/8"	17 5/8"	16 1/2"	10 1/4"	210	247	36 1/8" X 36 1/8" X 32 9/16"
N4A648	A	X	O	O	O	35"	39 1/8"	3 7/8"	7/8"	6 9/16"	28 7/16"	9 1/8"	2 15/16"	5/8"	16 1/2"	16 1/2"	15"	264	317	36 1/8" X 36 1/8" X 42 3/4"
N4A660	A	X	O	O	O	35"	45 15/16"	3 7/8"	7/8"	6 9/16"	28 7/16"	9 1/8"	2 15/16"	5/8"	16 1/2"	17"	16 1/4"	272	310	36 1/8" X 36 1/8" X 49 9/16"
		208-230-1-60	230-1-60	208/230-3-60	460-3-60															

X = YES
O = NO

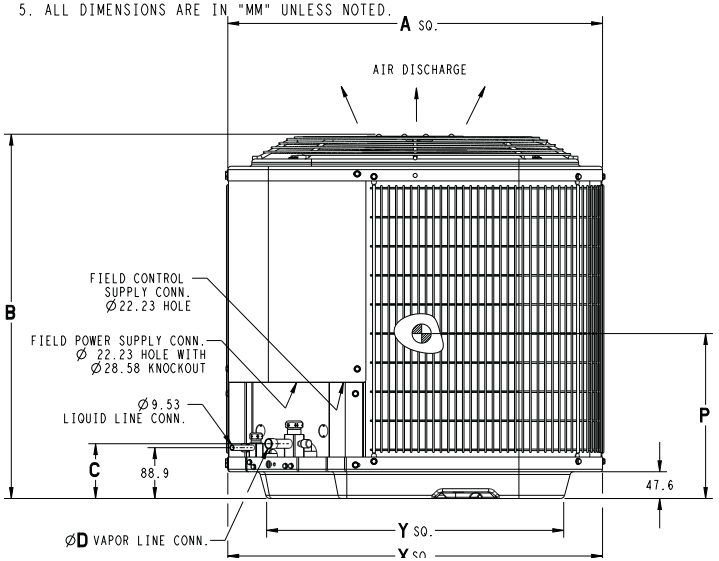
SD5319–4 REV A

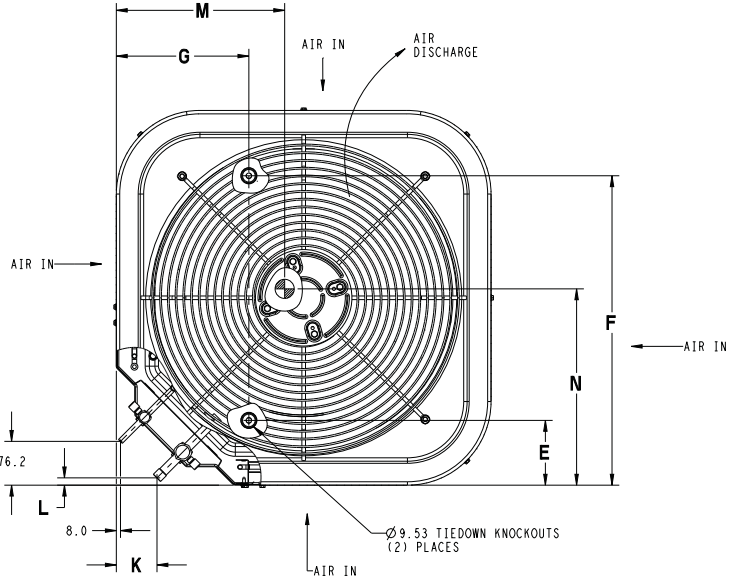
DIMENSIONS – SI

NOTES:

1. 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.
2. MINIMUM OUTDOOR OPERATING AMBIENT IN COOLING MODE IS 13°C, MAX. 52°C.
3. SERIES DESIGNATION IS THE 10TH POSITION OF THE UNIT MODEL NUMBER.
4. CENTER OF GRAVITY ⊕.
5. ALL DIMENSIONS ARE IN "MM" UNLESS NOTED.

UNIT SIZE	"X" MIN GROUND MOUNTING PAD APPLICATION DIMENSIONS	"Y" MIN ROOF-TOP MOUNTING PAD APPLICATION DIMENSIONS
-	587.4	451.3
18, 24	654.0	518.5
30	792.2	583.2
36, 42, 48, 60	889.0	679.7





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)
N4A618	A	X	O	O	O	654.0	635.0	95.2	19.0	112.7	539.8	231.8	71.4	12.7	330.2	387.4	247.7	55.3	65.8	708.2 X 708.2 X 827.1
N4A624	A	X	O	O	O	654.0	820.8	95.2	19.0	112.7	539.8	231.8	71.4	12.7	339.7	336.6	382.6	55.8	67.1	708.2 X 708.2 X 930.3
N4A630	A	X	O	O	O	792.2	993.9	95.2	19.0	166.7	627.1	231.8	71.4	12.7	400.1	406.4	341.3	74.4	91.2	846.6 X 846.6 X 1085.9
N4A636	A	X	O	O	O	889.0	719.2	98.6	22.2	166.7	722.3	231.8	74.6	15.9	409.6	406.9	330.2	74.8	92.5	917.6 X 917.6 X 827.1
N4A642	A	X	O	O	O	889.0	719.2	98.6	22.2	166.7	722.3	231.8	74.6	15.9	447.7	419.1	260.4	95.3	111.8	917.6 X 917.6 X 827.1
N4A648	A	X	O	O	O	889.0	993.8	98.4	22.2	166.7	722.3	231.8	74.6	15.9	419.1	419.1	381.0	119.7	143.8	917.6 X 917.6 X 1085.8
N4A660	A	X	O	O	O	889.0	1166.8	98.4	22.2	166.7	722.3	231.8	74.6	15.9	419.1	431.8	412.8	123.4	140.6	917.6 X 917.6 X 1258.9
		208-230-1-60	230-1-60	208/230-3-60	460-3-60															

X = YES
O = NO

SD5319–4 REV A

DETAILED COOLING CAPACITIES#

EVAPORATOR AIR		CONDENSER ENTERING AIR TEMPERATURES °F (°C)																	
		75 (23.9)			85 (29.4)			95 (35)			105 (40.6)			115 (46.1)			125 (51.7)		
CFM	EWB °F (°C)	Capacity MBtuh		Total Sys. KW**	Capacity MBtuh		Total Sys. KW**	Capacity MBtuh		Total Sys. KW**	Capacity MBtuh		Total Sys. KW**	Capacity MBtuh		Total Sys. KW**	Capacity MBtuh		Total Sys. KW**
		Total	Sens‡		Total	Sens‡		Total	Sens‡		Total	Sens‡		Total	Sens‡		Total	Sens‡	
N4A618GKA Outdoor Section With EA*4X19L17A* Indoor Section																			
525	72 (22.2)	20.56	10.96	1.11	19.77	10.67	1.25	18.93	10.35	1.40	17.98	10.00	1.58	16.91	9.62	1.77	15.70	9.18	2.00
	67 (19.4)	18.80	13.55	1.12	18.03	13.23	1.26	17.20	12.89	1.41	16.29	12.52	1.58	15.26	12.11	1.78	14.11	11.66	2.00
	63 (17.2)††	17.52	13.07	1.13	16.75	12.73	1.27	15.94	12.37	1.42	15.04	11.98	1.59	14.05	11.55	1.78	12.94	11.08	2.01
	62 (16.7)	17.21	16.10	1.13	16.46	15.76	1.27	15.67	15.40	1.42	14.89	14.89	1.59	14.11	14.11	1.78	13.23	13.23	2.00
	57 (13.9)	16.82	16.82	1.14	16.21	16.21	1.27	15.57	15.57	1.42	14.86	14.86	1.59	14.08	14.08	1.78	13.20	13.20	2.00
600	72 (22.2)	20.91	11.56	1.14	20.10	11.27	1.27	19.23	10.95	1.43	18.25	10.60	1.60	17.16	10.22	1.80	15.91	9.78	2.02
	67 (19.4)	19.14	14.52	1.15	18.35	14.21	1.28	17.50	13.87	1.44	16.56	13.49	1.61	15.51	13.08	1.80	14.33	12.62	2.03
	63 (17.2)††	17.86	13.98	1.16	17.08	13.64	1.29	16.24	13.28	1.44	15.32	12.88	1.61	14.30	12.45	1.81	13.16	11.97	2.03
	62 (16.7)	17.61	17.44	1.16	16.94	16.94	1.29	16.27	16.27	1.44	15.53	15.53	1.61	14.70	14.70	1.81	13.77	13.77	2.03
	57 (13.9)	17.54	17.54	1.16	16.91	16.91	1.29	16.24	16.24	1.44	15.50	15.50	1.61	14.68	14.68	1.81	13.75	13.75	2.03
675	72 (22.2)	21.16	12.15	1.16	20.33	11.86	1.30	19.44	11.54	1.46	18.44	11.19	1.63	17.32	10.80	1.83	16.05	10.37	2.05
	67 (19.4)	19.39	15.48	1.17	18.58	15.16	1.31	17.72	14.81	1.46	16.77	14.44	1.63	15.69	14.03	1.83	14.49	13.56	2.05
	63 (17.2)††	18.12	14.87	1.18	17.31	14.52	1.32	16.46	14.16	1.47	15.53	13.77	1.64	14.49	13.33	1.84	13.33	12.84	2.06
	62 (16.7)	18.17	18.17	1.18	17.52	17.52	1.32	16.82	16.82	1.47	16.05	16.05	1.64	15.19	15.19	1.83	14.22	14.22	2.06
	57 (13.9)	18.14	18.14	1.18	17.49	17.49	1.32	16.79	16.79	1.47	16.03	16.03	1.64	15.17	15.17	1.83	14.20	14.20	2.06

EVAPORATOR AIR		75 (23.9)			85 (29.4)			95 (35)			105 (40.6)			115 (46.1)			125 (51.7)		
CFM	EWB °F (°C)	Capacity MBtuh		Total Sys. KW**	Capacity MBtuh		Total Sys. KW**	Capacity MBtuh		Total Sys. KW**	Capacity MBtuh		Total Sys. KW**	Capacity MBtuh		Total Sys. KW**	Capacity MBtuh		Total Sys. KW**
		Total	Sens‡		Total	Sens‡		Total	Sens‡		Total	Sens‡		Total	Sens‡		Total	Sens‡	
N4A624GKA Outdoor Section With EA*4X25L17A* Indoor Section																			
700	72 (22.2)	28.74	15.29	1.56	27.59	14.86	1.73	26.38	14.41	1.92	25.05	13.92	2.13	23.62	13.40	2.38	21.98	12.81	2.67
	67 (19.4)	26.23	18.87	1.57	25.15	18.42	1.73	24.00	17.95	1.92	22.76	17.44	2.14	21.38	16.88	2.39	19.89	16.29	2.68
	63 (17.2)††	24.41	18.18	1.57	23.37	17.72	1.74	22.28	17.23	1.92	21.09	16.71	2.14	19.80	16.15	2.39	18.41	15.56	2.69
	62 (16.7)	23.90	22.33	1.57	22.89	21.86	1.74	21.83	21.35	1.92	20.70	20.70	2.14	19.68	19.68	2.39	18.58	18.58	2.69
	57 (13.9)	23.23	23.23	1.57	22.43	22.43	1.74	21.59	21.59	1.93	20.66	20.66	2.14	19.65	19.65	2.39	18.55	18.55	2.69
800	72 (22.2)	29.24	16.13	1.60	28.05	15.70	1.77	26.78	15.24	1.95	25.44	14.75	2.17	23.93	14.22	2.42	22.24	13.63	2.71
	67 (19.4)	26.71	20.21	1.60	25.57	19.75	1.77	24.40	19.27	1.96	23.11	18.76	2.17	21.69	18.20	2.42	20.14	17.59	2.72
	63 (17.2)††	24.89	19.44	1.61	23.82	18.97	1.77	22.69	18.48	1.96	21.45	17.94	2.18	20.10	17.37	2.43	18.66	16.76	2.72
	62 (16.7)	24.44	24.12	1.61	23.45	23.45	1.77	22.55	22.55	1.96	21.57	21.57	2.17	20.47	20.47	2.43	19.28	19.28	2.72
	57 (13.9)	24.26	24.26	1.61	23.41	23.41	1.77	22.52	22.52	1.96	21.54	21.54	2.17	20.44	20.44	2.43	19.25	19.25	2.72
900	72 (22.2)	29.61	16.95	1.64	28.37	16.51	1.80	27.06	16.05	1.99	25.66	15.55	2.20	24.14	15.03	2.45	22.40	14.43	2.75
	67 (19.4)	27.04	21.51	1.64	25.89	21.05	1.81	24.68	20.57	1.99	23.37	20.05	2.21	21.92	19.48	2.46	20.33	18.85	2.75
	63 (17.2)††	25.25	20.65	1.64	24.14	20.17	1.81	22.97	19.67	2.00	21.72	19.14	2.21	20.33	18.55	2.47	18.85	17.92	2.76
	62 (16.7)	25.16	25.16	1.64	24.26	24.26	1.81	23.31	23.31	2.00	22.28	22.28	2.21	21.12	21.12	2.46	19.86	19.86	2.75
	57 (13.9)	25.13	25.13	1.64	24.23	24.23	1.81	23.28	23.28	2.00	22.25	22.25	2.21	21.09	21.09	2.46	19.83	19.83	2.75

EVAPORATOR AIR		CONDENSER ENTERING AIR TEMPERATURES °F (°C)																	
		75 (23.9)			85 (29.4)			95 (35)			105 (40.6)			115 (46.1)			125 (51.7)		
CFM	EWB °F (°C)	Capacity MBtuh		Total Sys. KW**	Capacity MBtuh		Total Sys. KW**	Capacity MBtuh		Total Sys. KW**	Capacity MBtuh		Total Sys. KW**	Capacity MBtuh		Total Sys. KW**	Capacity MBtuh		Total Sys. KW**
		Total	Sens‡		Total	Sens‡		Total	Sens‡		Total	Sens‡		Total	Sens‡		Total	Sens‡	
N4A630GKA Outdoor Section With EA*4X37L21A* Indoor Section																			
875	72 (22.2)	35.64	18.21	1.92	33.95	17.61	2.12	32.20	16.99	2.34	30.34	16.35	2.59	28.36	15.67	2.89	26.24	14.96	3.24
	67 (19.4)	32.44	22.50	1.93	30.91	21.90	2.12	29.31	21.28	2.34	27.63	20.63	2.60	25.83	19.95	2.89	23.89	19.22	3.24
	63 (17.2)††	30.16	21.66	1.93	28.74	21.06	2.13	27.26	20.44	2.35	25.70	19.79	2.60	24.03	19.11	2.90	22.23	18.38	3.24
	62 (16.7)	29.56	26.69	1.93	28.19	26.07	2.13	26.78	26.66	2.34	25.48	25.48	2.60	24.13	24.13	2.89	22.66	22.66	3.24
	57 (13.9)	28.92	28.92	1.93	27.82	27.82	2.13	26.67	26.67	2.35	25.44	25.44	2.60	24.09	24.09	2.90	22.63	22.63	3.24
1000	72 (22.2)	36.22	19.22	1.97	34.49	18.62	2.17	32.65	17.99	2.39	30.71	17.34	2.64	28.67	16.65	2.94	26.47	15.93	3.29
	67 (19.4)	33.02	24.12	1.98	31.42	23.51	2.17	29.76	22.87	2.39	28.00	22.21	2.64	26.13	21.51	2.94	24.15	20.76	3.29
	63 (17.2)††	30.72	23.16	1.98	29.24	22.55	2.17	27.70	21.91	2.39	26.07	21.25	2.65	24.34	20.55	2.94	22.49	19.80	3.29
	62 (16.7)	30.25	30.19	1.98	29.03	29.03	2.17	27.79	27.79	2.39	26.45	26.45	2.65	25.00	25.00	2.94	23.42	23.42	3.29
	57 (13.9)	30.17	30.17	1.98	28.99	28.99	2.17	27.74	27.74	2.39	26.41	26.41	2.65	24.97	24.97	2.94	23.39	23.39	3.29
1125	72 (22.2)	36.63	20.20	2.02	34.86	19.60	2.21	32.96	18.97	2.43	30.97	18.31	2.69	28.86	17.61	2.99	26.61	16.87	3.34
	67 (19.4)	33.45	25.70	2.02	31.79	25.07	2.22	30.07	24.42	2.44	28.27	23.74	2.69	26.36	23.02	2.99	24.33	22.24	3.34
	63 (17.2)††	31.14	24.62	2.03	29.61	24.00	2.22	28.01	23.35	2.44	26.35	22.67	2.69	24.57	21.95	2.99	22.69	21.15	3.34
	62 (16.7)	31.27	31.27	2.03	30.00	30.00	2.22	28.67	28.67	2.44	27.25	27.25	2.69	25.71	25.71	2.99	24.04	24.04	3.34
	57 (13.9)	31.22	31.22	2.03	29.96	29.96	2.22	28.63	28.63	2.44	27.21	27.21	2.69	25.68	25.68	2.99	24.01	24.01	3.34

See notes on page 11

DETAILED COOLING CAPACITIES# CONTINUED

EVAPORATOR AIR		CONDENSER ENTERING AIR TEMPERATURES °F (°C)																	
		75 (23.9)			85 (29.4)			95 (35)			105 (40.6)			115 (46.1)			125 (51.7)		
CFM	EWB °F (°C)	Capacity MBtuh		Total Sys. KW**	Capacity MBtuh		Total Sys. KW**	Capacity MBtuh		Total Sys. KW**	Capacity MBtuh		Total Sys. KW**	Capacity MBtuh		Total Sys. KW**	Capacity MBtuh		Total Sys. KW**
		Total	Sens‡		Total	Sens‡		Total	Sens‡		Total	Sens‡		Total	Sens‡		Total	Sens‡	
N4A636GKA Outdoor Section With EA*4X37L21A* Indoor Section																			
1050	72 (22.2)	41.43	22.35	2.21	39.69	21.71	2.48	37.44	20.89	2.75	34.93	19.98	3.05	32.36	19.07	3.40	29.90	18.21	3.84
	67 (19.4)	38.19	27.91	2.21	36.65	27.27	2.48	34.59	26.43	2.74	32.28	25.50	3.03	29.91	24.56	3.38	27.64	23.66	3.81
	63 (17.2)††	35.71	26.94	2.22	34.31	26.31	2.49	32.39	25.47	2.74	30.23	24.53	3.03	28.01	23.58	3.37	25.89	22.68	3.81
	62 (16.7)	35.08	33.23	2.23	33.74	32.59	2.49	31.93	31.76	2.74	30.11	30.11	3.02	28.27	28.27	3.37	26.49	26.49	3.81
	57 (13.9)	34.40	34.40	2.23	33.32	33.32	2.49	31.81	31.81	2.74	30.06	30.06	3.02	28.23	28.23	3.37	26.46	26.46	3.81
1200	72 (22.2)	41.93	23.55	2.27	40.12	22.90	2.54	37.78	22.06	2.82	35.19	21.14	3.11	32.56	20.22	3.46	30.03	19.35	3.90
	67 (19.4)	38.75	29.85	2.27	37.13	29.20	2.54	35.00	28.35	2.80	32.61	27.40	3.09	30.17	26.44	3.44	27.86	25.52	3.88
	63 (17.2)††	36.30	28.76	2.28	34.82	28.12	2.54	32.84	27.26	2.80	30.60	26.30	3.08	28.31	25.33	3.43	26.14	24.40	3.87
	62 (16.7)	35.86	35.86	2.28	34.66	34.66	2.54	33.01	33.01	2.80	31.13	31.13	3.08	29.17	29.17	3.43	27.26	27.26	3.87
	57 (13.9)	35.80	35.80	2.28	34.61	34.61	2.54	32.97	32.97	2.80	31.10	31.10	3.08	29.13	29.13	3.43	27.23	27.23	3.87
1350	72 (22.2)	42.26	24.70	2.32	40.39	24.03	2.60	37.99	23.19	2.88	35.35	22.27	3.17	32.65	21.34	3.53	30.07	20.46	3.97
	67 (19.4)	39.14	31.75	2.32	37.47	31.08	2.59	35.28	30.21	2.86	32.84	29.24	3.15	30.36	28.25	3.50	28.02	27.25	3.94
	63 (17.2)††	36.73	30.53	2.33	35.20	29.87	2.60	33.15	28.99	2.86	30.87	28.01	3.14	28.54	27.00	3.49	26.35	25.97	3.93
	62 (16.7)	36.98	36.98	2.33	35.69	35.69	2.59	33.93	33.93	2.85	31.94	31.94	3.14	29.86	29.86	3.49	27.84	27.84	3.93
	57 (13.9)	36.94	36.94	2.33	35.64	35.64	2.59	33.89	33.89	2.85	31.90	31.90	3.14	29.83	29.83	3.49	27.82	27.82	3.93

EVAPORATOR AIR		CONDENSER ENTERING AIR TEMPERATURES °F (°C)																	
		75 (23.9)			85 (29.4)			95 (35)			105 (40.6)			115 (46.1)			125 (51.7)		
CFM	EWB °F (°C)	Capacity MBtuh		Total Sys. KW**	Capacity MBtuh		Total Sys. KW**	Capacity MBtuh		Total Sys. KW**	Capacity MBtuh		Total Sys. KW**	Capacity MBtuh		Total Sys. KW**	Capacity MBtuh		Total Sys. KW**
		Total	Sens‡		Total	Sens‡		Total	Sens‡		Total	Sens‡		Total	Sens‡		Total	Sens‡	
N4A642GKA Outdoor Section With EA*4X43L21A* Indoor Section																			
1225	72 (22.2)	48.22	24.66	2.66	46.04	23.88	2.91	43.76	23.07	3.20	41.35	22.23	3.54	38.73	21.33	3.94	35.86	20.35	4.40
	67 (19.4)	43.94	30.44	2.65	41.96	29.66	2.90	39.92	28.86	3.19	37.74	28.02	3.53	35.35	27.10	3.93	32.73	26.11	4.39
	63 (17.2)††	40.85	29.30	2.63	39.03	28.53	2.89	37.15	27.73	3.18	35.13	26.89	3.52	32.94	25.99	3.92	30.49	24.98	4.38
	62 (16.7)	40.14	36.10	2.63	38.38	35.29	2.89	36.59	34.43	3.18	34.82	34.82	3.52	33.04	33.04	3.92	31.02	31.02	4.38
	57 (13.9)	39.26	39.26	2.63	37.85	37.85	2.88	36.37	36.37	3.18	34.77	34.77	3.52	33.00	33.00	3.92	30.98	30.98	4.38
1400	72 (22.2)	49.02	25.99	2.73	46.72	25.19	2.98	44.36	24.37	3.27	41.84	23.51	3.61	39.12	22.59	4.01	36.16	21.61	4.47
	67 (19.4)	44.72	32.58	2.71	42.63	31.77	2.97	40.50	30.95	3.26	38.24	30.09	3.60	35.77	29.16	4.00	33.07	28.13	4.46
	63 (17.2)††	41.61	31.28	2.70	39.69	30.49	2.96	37.73	29.67	3.25	35.64	28.82	3.59	33.36	27.88	3.99	30.85	26.85	4.45
	62 (16.7)	41.11	40.80	2.70	39.47	39.47	2.96	37.87	37.87	3.25	36.14	36.14	3.59	34.21	34.21	3.99	32.06	32.06	4.45
	57 (13.9)	40.95	40.95	2.70	39.41	39.41	2.96	37.81	37.81	3.25	36.09	36.09	3.59	34.17	34.17	3.99	32.01	32.01	4.45
1575	72 (22.2)	49.58	27.26	2.80	47.21	26.45	3.05	44.76	25.62	3.34	42.16	24.75	3.68	39.37	23.82	4.07	36.34	22.83	4.53
	67 (19.4)	45.27	34.62	2.78	43.12	33.81	3.04	40.93	32.97	3.33	38.60	32.08	3.67	36.07	31.12	4.06	33.33	30.05	4.52
	63 (17.2)††	42.15	33.18	2.77	40.18	32.37	3.03	38.15	31.54	3.32	36.00	30.65	3.66	33.67	29.69	4.05	31.12	28.59	4.52
	62 (16.7)	42.36	42.36	2.77	40.71	40.71	3.03	39.01	39.01	3.32	37.16	37.16	3.66	35.12	35.12	4.06	32.84	32.84	4.52
	57 (13.9)	42.30	42.30	2.77	40.66	40.66	3.03	38.95	38.95	3.32	37.12	37.12	3.66	35.08	35.08	4.06	32.80	32.80	4.52

EVAPORATOR AIR		CONDENSER ENTERING AIR TEMPERATURES °F (°C)																	
		75 (23.9)			85 (29.4)			95 (35)			105 (40.6)			115 (46.1)			125 (51.7)		
CFM	EWB °F (°C)	Capacity MBtuh		Total Sys. KW**	Capacity MBtuh		Total Sys. KW**	Capacity MBtuh		Total Sys. KW**	Capacity MBtuh		Total Sys. KW**	Capacity MBtuh		Total Sys. KW**	Capacity MBtuh		Total Sys. KW**
		Total	Sens‡		Total	Sens‡		Total	Sens‡		Total	Sens‡		Total	Sens‡		Total	Sens‡	
N4A648GKA Outdoor Section With EA*4X60L24A* Indoor Section																			
1400	72 (22.2)	44.96	44.96	2.96	43.24	43.24	3.31	41.42	41.42	3.68	39.48	39.48	4.07	37.41	37.41	4.50	35.13	35.13	4.97
	67 (19.4)	45.83	40.58	2.94	43.71	39.59	3.30	41.58	41.20	3.68	39.55	39.55	4.07	37.46	37.46	4.50	35.17	35.17	4.97
	63 (17.2)††	46.51	32.87	2.92	44.27	31.94	3.30	41.97	30.99	3.67	39.55	30.00	4.07	37.01	28.97	4.50	34.29	27.86	4.97
	62 (16.7)	50.34	34.29	2.82	47.86	33.33	3.22	45.32	32.35	3.62	42.67	31.35	4.04	39.88	30.30	4.49	36.92	29.19	4.97
	57 (13.9)	55.58	27.87	2.66	52.81	26.89	3.10	49.96	25.90	3.53	46.99	24.88	3.98	43.89	23.82	4.45	40.59	22.72	4.95
1600	72 (22.2)	46.87	46.87	2.98	44.99	44.99	3.35	43.03	43.03	3.73	40.92	40.92	4.13	38.67	38.67	4.57	36.23	36.23	5.05
	67 (19.4)	47.04	46.57	2.98	45.07	45.07	3.35	43.08	43.08	3.73	40.97	40.97	4.13	38.72	38.72	4.57	36.27	36.27	5.05
	63 (17.2)††	47.41	35.02	2.97	45.06	34.06	3.35	42.65	33.08	3.74	40.14	32.06	4.14	37.49	30.98	4.57	34.68	29.83	5.05
	62 (16.7)	51.23	36.58	2.86	48.66	35.60	3.27	46.00	34.60	3.68	43.25	33.56	4.11	40.37	32.48	4.56	37.31	31.33	5.04
	57 (13.9)	56.55	29.30	2.70	53.65	28.30	3.14	50.66	27.28	3.59	47.58	26.24	4.04	44.35	25.17	4.52	40.94	24.04	5.03
1800	72 (22.2)	48.44	48.44	3.01	46.42	46.42	3.39	44.30	44.30	3.78	42.07	42.07	4.19	39.68	39.68	4.63	37.09	37.09	5.12
	67 (19.4)	48.50	48.50	3.01	46.48	46.48	3.39	44.35	44.35	3.78	42.11	42.11	4.19	39.72	39.72	4.63	37.13	37.13	5.12
	63 (17.2)††	48.09	37.06	3.02	45.64	36.07	3.41	43.15	35.05	3.80	40.56	33.99	4.21	37.85	32.87	4.65	35.01	31.63	5.12
	62 (16.7)	51.92	38.78	2.91	49.24	37.77	3.32	46.51	36.74	3.74	43.67	35.67	4.17	40.72	34.54	4.63	37.63	33.32	5.12
	57 (13.9)	57.26	30.65	2.74	54.24	29.63	3.19	51.16	28.60	3.64	47.97	27.53	4.11	44.65	26.44	4.59	41.16	25.30	5.10

See notes on page 11

DETAILED COOLING CAPACITIES# CONTINUED

EVAPORATOR AIR		CONDENSER ENTERING AIR TEMPERATURES °F (°C)																	
		75 (23.9)			85 (29.4)			95 (35)			105 (40.6)			115 (46.1)			125 (51.7)		
CFM	EWB °F (°C)	Capacity MBtuh		Total Sys. KW**	Capacity MBtuh		Total Sys. KW**	Capacity MBtuh		Total Sys. KW**	Capacity MBtuh		Total Sys. KW**	Capacity MBtuh		Total Sys. KW**	Capacity MBtuh		Total Sys. KW**
		Total	Sens‡		Total	Sens‡		Total	Sens‡		Total	Sens‡		Total	Sens‡		Total	Sens‡	
N4A660GKA Outdoor Section With EN(A,D)4X61L24** Indoor Section																			
1750	72 (22.2)	56.19	56.19	3.59	53.95	53.95	3.96	51.53	51.53	4.36	48.93	48.93	4.81	46.09	46.09	5.32	42.99	42.99	5.90
	67 (19.4)	56.64	50.02	3.59	54.07	53.77	3.96	51.60	51.60	4.36	48.99	48.99	4.81	46.15	46.15	5.32	43.04	43.04	5.90
	63 (17.2)††	57.26	40.25	3.60	54.46	39.14	3.96	51.49	37.96	4.36	48.36	36.73	4.80	45.01	35.42	5.31	41.42	34.02	5.88
	62 (16.7)	61.60	41.91	3.60	58.54	40.77	3.97	55.32	39.59	4.38	51.90	38.34	4.83	48.28	37.03	5.33	44.40	35.63	5.90
	57 (13.9)	67.62	33.62	3.61	64.18	32.47	4.00	60.57	31.27	4.41	56.80	30.03	4.86	52.78	28.73	5.37	48.50	27.36	5.94
2000	72 (22.2)	58.30	58.30	3.69	55.88	55.88	4.06	53.27	53.27	4.46	50.48	50.48	4.92	47.45	47.45	5.42	44.15	44.15	6.00
	67 (19.4)	58.38	58.38	3.69	55.95	55.95	4.06	53.34	53.34	4.47	50.54	50.54	4.92	47.51	47.51	5.42	44.20	44.20	6.00
	63 (17.2)††	58.16	42.92	3.69	55.24	41.77	4.06	52.18	40.57	4.46	48.93	39.29	4.90	45.49	37.93	5.41	41.84	36.44	5.99
	62 (16.7)	62.53	44.78	3.70	59.33	43.61	4.07	56.00	42.40	4.48	52.47	41.12	4.93	48.75	39.76	5.43	44.80	38.29	6.01
	57 (13.9)	68.55	35.38	3.71	64.96	34.20	4.10	61.23	32.99	4.51	57.31	31.73	4.96	53.17	30.41	5.47	48.77	29.02	6.04
2250	72 (22.2)	60.03	60.03	3.79	57.44	57.44	4.16	54.67	54.67	4.57	51.71	51.71	5.02	48.52	48.52	5.53	45.05	45.05	6.11
	67 (19.4)	60.10	60.10	3.79	57.51	57.51	4.16	54.74	54.74	4.57	51.77	51.77	5.02	48.57	48.57	5.53	45.09	45.09	6.11
	63 (17.2)††	58.84	45.45	3.79	55.83	44.27	4.16	52.68	43.02	4.56	49.37	41.69	5.01	45.89	40.23	5.51	42.31	42.31	6.09
	62 (16.7)	63.21	47.52	3.80	59.93	46.32	4.17	56.49	45.07	4.58	52.89	43.74	5.03	49.12	42.30	5.53	45.19	44.77	6.11
	57 (13.9)	69.20	37.05	3.81	65.50	35.85	4.20	61.65	34.62	4.61	57.63	33.34	5.06	53.40	32.00	5.57	48.90	30.59	6.14

† Total and sensible capacities are net capacities. Blower motor heat has been subtracted.
‡ Sensible capacities shown are based on 80°F (27°C) entering air at the indoor coil. For sensible capacities at other than 80°F (27°C), deduct 835 Btuh (245 kW) per 1000 CFM (480 L/S) of indoor coil air for each degree below 80°F (27°C), or add 835 Btuh (245 kW) per 1000 CFM (480 L/S) of indoor coil air per degree above 80°F (27°C).
# Detailed cooling capacities are based on indoor and outdoor unit at the same elevation per AHRI standard 210/240–2008. If additional tubing length and/or indoor unit is located above outdoor unit, a slight variation in capacity may occur.
** System kw is total of indoor and outdoor unit kilowatts.
†† At TVA rating indoor condition (75°F edb/63°F ewb). All other indoor air temperatures are at 80°F edb.
NOTE: When the required data falls between the published data, interpolation may be performed. Extrapolation is not an acceptable practice.
EWB — Entering Wet Bulb

CONDENSER ONLY RATINGS

SST °F (°C)		CONDENSER ENTERING AIR TEMPERATURES °F (°C)							
		55 (12.78)	65 (18.33)	75 (23.89)	85 (29.44)	95 (35.0)	105 (40.56)	115 (46.11)	125 (51.67)
N4A618GKA									
30 (–1.11)	TCG	16.10	14.90	13.90	12.90	11.90	11.00	9.90	8.80
	SDT	67.70	77.00	86.40	95.80	105.30	114.80	124.20	133.50
	KW	0.74	0.85	0.96	1.08	1.22	1.37	1.55	1.75
35 (1.67)	TCG	17.60	16.50	15.40	14.30	13.30	12.30	11.10	10.00
	SDT	68.80	78.10	87.40	96.90	106.30	115.60	125.00	134.30
	KW	0.74	0.84	0.96	1.08	1.22	1.38	1.55	1.76
40 (4.44)	TCG	19.30	18.10	17.00	15.90	14.80	13.60	12.40	11.20
	SDT	69.90	79.20	88.50	97.90	107.20	116.50	125.80	135.10
	KW	0.73	0.84	0.95	1.08	1.22	1.38	1.56	1.76
45 (7.22)	TCG	21.10	19.80	18.60	17.50	16.30	15.10	13.80	12.40
	SDT	71.10	80.40	89.60	98.90	108.20	117.50	126.70	135.90
	KW	0.72	0.83	0.95	1.08	1.22	1.38	1.56	1.77
50 (10.0)	TCG	22.90	21.60	20.40	19.20	17.90	16.60	15.20	13.80
	SDT	72.30	81.50	90.70	100.00	109.30	118.50	127.70	136.80
	KW	0.71	0.82	0.94	1.07	1.22	1.38	1.56	1.77
55 (12.78)	TCG	24.90	23.50	22.20	20.90	19.60	18.20	16.70	15.20
	SDT	73.50	82.70	91.90	101.20	110.40	119.60	128.70	137.80
	KW	0.70	0.81	0.93	1.07	1.21	1.38	1.56	1.77
N4A624GKA									
30 (–1.11)	TCG	21.20	20.00	18.80	17.70	16.50	15.40	14.20	12.90
	SDT	67.60	77.10	86.60	96.10	105.60	115.20	124.60	134.00
	KW	1.02	1.17	1.32	1.48	1.67	1.87	2.11	2.39
35 (1.67)	TCG	23.30	22.00	20.80	19.50	18.30	17.00	15.70	14.30
	SDT	68.70	78.20	87.60	97.10	106.60	116.00	125.40	134.80
	KW	1.03	1.17	1.32	1.48	1.67	1.88	2.12	2.39
40 (4.44)	TCG	25.60	24.20	22.80	21.50	20.10	18.80	17.30	15.80
	SDT	69.90	79.30	88.80	98.20	107.50	116.80	126.20	135.50
	KW	1.03	1.17	1.32	1.49	1.67	1.87	2.12	2.39
45 (7.22)	TCG	28.10	26.60	25.10	23.60	22.20	20.60	19.10	17.40
	SDT	71.20	80.60	89.90	99.20	108.50	117.80	127.00	136.30
	KW	1.03	1.17	1.32	1.48	1.67	1.87	2.11	2.39
50 (10.0)	TCG	30.70	29.10	27.50	25.90	24.30	22.60	20.90	19.10
	SDT	72.60	81.80	91.00	100.30	109.50	118.80	128.00	137.20
	KW	1.03	1.17	1.32	1.48	1.66	1.87	2.11	2.39
55 (12.78)	TCG	33.50	31.80	30.10	28.30	26.50	24.70	22.80	20.90
	SDT	73.90	83.10	92.30	101.50	110.60	119.80	129.00	138.10
	KW	1.03	1.17	1.32	1.48	1.66	1.87	2.11	2.39
N4A630GKA									
30 (–1.11)	TCG	25.60	24.30	22.90	21.60	20.10	18.70	17.10	15.50
	SDT	67.20	76.70	86.20	95.70	105.20	114.60	124.00	133.40
	KW	1.24	1.42	1.60	1.79	2.01	2.25	2.54	2.87
35 (1.67)	TCG	28.20	26.70	25.20	23.70	22.20	20.60	18.90	17.10
	SDT	68.40	77.80	87.20	96.70	106.10	115.50	124.80	134.10
	KW	1.25	1.43	1.61	1.80	2.01	2.26	2.55	2.88
40 (4.44)	TCG	31.00	29.40	27.70	26.10	24.40	22.60	20.80	18.80
	SDT	69.60	79.00	88.40	97.70	107.00	116.30	125.60	134.80
	KW	1.26	1.43	1.61	1.80	2.02	2.27	2.55	2.89
45 (7.22)	TCG	34.00	32.20	30.40	28.60	26.70	24.80	22.80	20.70
	SDT	70.90	80.20	89.50	98.80	108.00	117.20	126.40	135.60
	KW	1.27	1.44	1.61	1.81	2.02	2.27	2.56	2.89
50 (10.0)	TCG	37.20	35.20	33.30	31.30	29.20	27.10	24.90	22.60
	SDT	72.30	81.50	90.70	99.90	109.00	118.20	127.30	136.40
	KW	1.27	1.44	1.61	1.81	2.02	2.27	2.56	2.90
55 (12.78)	TCG	40.60	38.40	36.30	34.10	31.80	29.50	27.10	24.60
	SDT	73.70	82.80	91.90	101.00	110.10	119.20	128.30	137.30
	KW	1.27	1.44	1.61	1.81	2.02	2.27	2.56	2.90
N4A636GKA									
30 (–1.11)	TCG	25.50	27.70	27.70	26.60	24.70	22.60	20.40	18.40
	SDT	65.40	76.40	86.40	96.00	105.40	114.70	124.00	133.40
	KW	1.24	1.64	1.92	2.16	2.39	2.65	2.96	3.38
35 (1.67)	TCG	29.20	31.00	30.80	29.50	27.50	25.20	22.90	20.70
	SDT	66.80	77.50	87.40	97.00	106.30	115.50	124.80	134.20
	KW	1.23	1.61	1.90	2.14	2.37	2.64	2.96	3.37
40 (4.44)	TCG	33.10	34.50	34.00	32.50	30.30	27.90	25.40	23.10
	SDT	68.20	78.70	88.50	97.90	107.20	116.40	125.60	134.90
	KW	1.21	1.59	1.88	2.12	2.36	2.63	2.96	3.37
45 (7.22)	TCG	36.90	37.90	37.20	35.50	33.10	30.50	27.90	25.40
	SDT	69.50	79.80	89.60	99.00	108.20	117.30	126.40	135.70
	KW	1.19	1.57	1.86	2.11	2.36	2.63	2.96	3.37
50 (10.0)	TCG	40.60	41.40	40.40	38.50	35.90	33.20	30.40	27.70
	SDT	70.70	81.00	90.60	99.90	109.10	118.10	127.20	136.40
	KW	1.17	1.55	1.85	2.11	2.36	2.64	2.96	3.38
55 (12.78)	TCG	44.30	44.70	43.50	41.40	38.70	35.70	32.70	29.90
	SDT	72.00	82.10	91.70	100.90	109.90	118.90	128.00	137.10
	KW	1.16	1.55	1.85	2.11	2.37	2.65	2.98	3.39

See notes on page 13

CONDENSER ONLY RATINGS CONTINUED

SST °F (°C)		CONDENSER ENTERING AIR TEMPERATURES °F (°C)							
		55 (12.78)	65 (18.33)	75 (23.89)	85 (29.44)	95 (35.0)	105 (40.56)	115 (46.11)	125 (51.67)
N4A642GKA									
30 (–1.11)	TCG	36.10	34.10	32.30	30.40	28.60	26.60	24.40	22.00
	SDT	67.00	76.50	86.00	95.50	105.00	114.50	123.90	133.20
	KW	1.68	1.90	2.14	2.40	2.70	3.03	3.42	3.87
35 (1.67)	TCG	39.80	37.60	35.50	33.50	31.50	29.30	26.90	24.30
	SDT	68.20	77.60	87.00	96.50	106.00	115.40	124.70	133.90
	KW	1.70	1.92	2.15	2.41	2.71	3.04	3.43	3.88
40 (4.44)	TCG	43.80	41.30	39.00	36.80	34.60	32.20	29.60	26.80
	SDT	69.50	78.80	88.20	97.60	106.90	116.20	125.50	134.60
	KW	1.72	1.94	2.17	2.43	2.72	3.06	3.45	3.90
45 (7.22)	TCG	48.00	45.30	42.80	40.30	37.90	35.20	32.40	29.30
	SDT	70.90	80.10	89.40	98.70	108.00	117.20	126.40	135.40
	KW	1.75	1.96	2.18	2.44	2.73	3.07	3.46	3.91
50 (10.0)	TCG	52.40	49.50	46.70	44.10	41.30	38.50	35.40	32.00
	SDT	72.40	81.40	90.60	99.90	109.10	118.20	127.30	136.30
	KW	1.77	1.98	2.20	2.45	2.74	3.08	3.47	3.92
55 (12.78)	TCG	57.20	54.00	51.00	48.00	45.00	41.80	38.40	34.70
	SDT	73.90	82.90	92.00	101.10	110.20	119.30	128.30	137.10
	KW	1.80	2.00	2.22	2.47	2.76	3.09	3.48	3.93
N4A648GKA									
30 (–1.11)	TCG	42.80	40.60	38.30	36.00	33.60	31.10	28.50	25.80
	SDT	67.80	77.20	86.60	96.00	105.40	114.70	124.00	133.30
	KW	2.00	2.29	2.58	2.87	3.17	3.51	3.90	4.35
35 (1.67)	TCG	47.40	44.80	42.30	39.70	37.10	34.40	31.60	28.60
	SDT	69.00	78.30	87.70	97.00	106.30	115.60	124.80	134.10
	KW	1.93	2.25	2.56	2.87	3.19	3.53	3.92	4.36
40 (4.44)	TCG	52.30	49.50	46.60	43.80	40.90	37.90	34.90	31.60
	SDT	70.40	79.60	88.80	98.00	107.20	116.50	125.70	134.80
	KW	1.82	2.18	2.52	2.85	3.19	3.55	3.94	4.38
45 (7.22)	TCG	57.80	54.60	51.40	48.20	45.00	41.70	38.30	34.80
	SDT	71.80	80.80	90.00	99.10	108.30	117.40	126.60	135.70
	KW	1.68	2.07	2.45	2.81	3.17	3.55	3.95	4.40
50 (10.0)	TCG	63.70	60.10	56.50	52.90	49.40	45.70	42.00	38.10
	SDT	73.20	82.20	91.30	100.30	109.40	118.50	127.50	136.50
	KW	1.49	1.93	2.34	2.74	3.13	3.53	3.95	4.41
55 (12.78)	TCG	70.10	66.00	62.00	58.00	54.10	50.00	45.90	41.60
	SDT	74.70	83.70	92.60	101.60	110.60	119.60	128.50	137.40
	KW	1.25	1.74	2.20	2.63	3.06	3.49	3.94	4.41
N4A660GKA									
30 (–1.11)	TCG	48.00	45.70	43.30	40.70	38.00	35.10	31.90	28.60
	SDT	68.80	78.20	87.60	97.00	106.30	115.50	124.80	133.90
	KW	2.16	2.44	2.73	3.04	3.39	3.79	4.27	4.82
35 (1.67)	TCG	53.10	50.50	47.80	44.90	41.90	38.70	35.30	31.70
	SDT	70.20	79.50	88.80	98.10	107.30	116.50	125.70	134.80
	KW	2.16	2.45	2.74	3.06	3.41	3.82	4.29	4.84
40 (4.44)	TCG	58.70	55.70	52.60	49.40	46.10	42.60	38.90	35.00
	SDT	71.70	80.90	90.10	99.30	108.40	117.50	126.60	135.60
	KW	2.15	2.45	2.75	3.08	3.44	3.84	4.31	4.85
45 (7.22)	TCG	64.50	61.20	57.70	54.20	50.50	46.70	42.60	38.40
	SDT	73.30	82.30	91.40	100.50	109.60	118.60	127.60	136.60
	KW	2.14	2.45	2.77	3.10	3.46	3.87	4.33	4.87
50 (10.0)	TCG	70.80	67.00	63.20	59.20	55.20	51.00	46.50	41.90
	SDT	74.90	83.90	92.90	101.80	110.80	119.80	128.70	137.50
	KW	2.13	2.45	2.78	3.12	3.49	3.90	4.36	4.89
55 (12.78)	TCG	77.40	73.10	68.90	64.50	60.10	55.40	50.60	45.60
	SDT	76.70	85.50	94.40	103.30	112.10	121.00	129.80	138.50
	KW	2.12	2.46	2.79	3.14	3.52	3.93	4.39	4.92

* AHRI listing applies only to systems shown in Combination Ratings table.

KW – Outdoor Unit Kilowatts Only.

SDT – Saturated Temperature Leaving Compressor (°F)

SST – Saturated Temperature Entering Compressor (°F/°C)

TCG – Gross Cooling Capacity (1000 Btuh)

GUIDE SPECIFICATIONS – GENERAL

System Description

Outdoor–mounted, air–cooled, split–system air conditioner unit suitable for ground or rooftop installation. Unit consists of a hermetic compressor, an air–cooled coil, propeller–type condenser fan, and a control box. Unit will discharge supply air upward as shown on contract drawings. Unit will be used in a refrigeration circuit to match up to a packaged fan coil or coil unit.

Quality Assurance

- Unit will be rated in accordance with the latest edition of AHRI Standard 210.
- Unit will be certified for capacity and efficiency, and listed in the latest AHRI directory.
- Unit construction will comply with latest edition of ANSI/ ASHRAE and with NEC.
- Unit will be constructed in accordance with UL standards and will carry the UL label of approval. Unit will have c–UL–us approval.
- Unit cabinet will be capable of withstanding Federal Test Method Standard No. 141 (Method 6061) 500–hr salt spray test.
- Air–cooled condenser coils will be leak tested at 150 psig and pressure tested at 450 psig.
- Unit constructed in ISO9001 approved facility.

Delivery, Storage, and Handling

- Unit will be shipped as single package only and is stored and handled per unit manufacturer's recommendations.

Warranty (for inclusion by specifying engineer)

- U.S. and Canada only.

PRODUCTS

Equipment

Factory assembled, single piece, air–cooled air conditioner unit. Contained within the unit enclosure is all factory wiring, piping, controls, compressor, refrigerant charge R–410A, and special features required prior to field start–up.

Unit Cabinet

- Unit cabinet will be constructed of galvanized steel, bonderized, and coated with a powder coat paint.
- 3 phase equipment available with dense grille only.
- Single phase equipment available with wide (W) or dense (A) grille option.

AIR–COOLED, SPLIT–SYSTEM AIR CONDITIONER
1–1/2 TO 5 NOMINAL TONS

Fans

- Condenser fan will be direct–drive propeller type, discharging air upward.
- Condenser fan motors will be totally enclosed, 1–phase type with class B insulation and permanently lubricated bearings. Shafts will be corrosion resistant.
- Fan blades will be statically and dynamically balanced.
- Condenser fan openings will be equipped with coated steel wire safety guards.

Compressor

- Compressor will be hermetically sealed.
- Compressor will be mounted on rubber vibration isolators.

Condenser Coil

- Condenser coil will be air cooled.
- Coil will be constructed of aluminum fins mechanically bonded to copper tubes which are then cleaned, dehydrated, and sealed.

Refrigeration Components

- Refrigeration circuit components will include liquid–line shutoff valve with sweat connections, vapor–line shutoff valve with sweat connections, system charge of R–410A refrigerant, and compressor oil.
- Unit will be equipped with high–pressure switch, low pressure switch and filter drier for R–410A refrigerant.

Operating Characteristics

- The capacity of the unit will meet or exceed _____ Btuh at a suction temperature of _____ °F/°C. The power consumption at full load will not exceed _____ kW.
- Combination of the unit and the evaporator or fan coil unit will have a total net cooling capacity of _____ Btuh or greater at conditions of _____ CFM entering air temperature at the evaporator at _____ °F/°C wet bulb and _____ °F/°C dry bulb, and air entering the unit at _____ °F/°C.
- The system will have a SEER of _____ Btuh/watt or greater at DOE conditions.

Electrical Requirements

- Nominal unit electrical characteristics will be _____ v, single phase, 60 hz. The unit will be capable of satisfactory operation within voltage limits of _____ v to _____ v.
- Unit electrical power will be single point connection.
- Control circuit will be 24v.

Special Features

- Refer to section of this literature identifying accessories and descriptions for specific features and available enhancements.

SYSTEM DESIGN SUMMARY

1. Intended for outdoor installation with free air inlet and outlet. Outdoor fan external static pressure available is less than 0.01–IN W.C.
2. Minimum outdoor operating air temperature without low–ambient operation accessory is 55°F (12.8°C).
3. Maximum outdoor operating air temperature is 125°F (51.7°C).
4. For reliable operation, unit should be level in all horizontal planes.
5. For interconnecting refrigerant tube lengths greater than 80 ft (23.4 m) and/or 35 ft (10.7 m) vertical differential, consult Residential Piping and Longline Guideline and Service Manual available from equipment distributor.
6. If any refrigerant tubing is buried, provide a 6 in. (152.4 mm) vertical rise to the valve connections at the unit. Refrigerant tubing lengths up to 36 in. (914.4 mm) may be buried without further consideration. Do not bury refrigerant lines longer than 36 in. (914.4 mm).
7. Use only copper wire for electric connection at unit. Aluminum and clad aluminum are not acceptable for the type of connector provided.
8. Do not apply capillary tube indoor coils to these units.
9. Factory–supplied filter drier must be installed.

Accessory Description and Usage (Listed Alphabetically)

1. Ball−Bearing Fan Motor

A fan motor with ball bearings which permits speed reduction while maintaining bearing lubrication.

2. Compressor Start Assist − Capacitor and Relay

Start capacitor and relay gives a ”hard” boost to compressor motor at each start up.

Usage Guideline:

Required for reciprocating compressors in the following applications:

Long line

Low ambient cooling

Hard shut off expansion valve on indoor coil

Liquid line solenoid on indoor coil

Required for single−phase scroll compressors in the following applications:

Long line

Low ambient cooling

Suggested for all compressors in areas with a history of low voltage problems.

3. Compressor Start Assist — PTC Type

Solid state electrical device which gives a ”soft” boost to the compressor at each start−up.

Usage Guideline:

Suggested in installations with marginal power supply.

4. Crankcase Heater

An electric resistance heater which mounts to the base of the compressor to keep the lubricant warm during off cycles. Improves compressor lubrication on restart and minimizes the chance of liquid slugging.

Usage Guideline:

Required in low ambient cooling applications.

Required in long line applications.

Suggested in all commercial applications.

5. Cycle Protector

The cycle protector is designed to prevent compressor short cycling. This control provides an approximate 5−minute delay after power to the compressor has been interrupted for any reason, including power outage, protector control trip, thermostat jiggling, or normal cycling.

6. Evaporator Freeze Thermostat

An SPST temperature−actuated switch that stops unit operation when evaporator reaches freeze−up conditions.

Usage Guideline:

Required when low ambient kit has been added.

7. Low−Ambient Pressure Switch Kit

A long life pressure switch which is mounted to outdoor unit service valve. It is designed to cycle the outdoor fan motor in order to maintain head pressure within normal operating limits (approximately 100 psig to 225 psig). The control will maintain working head pressure at low−ambient temperatures down to 0°F (−18°C) when properly installed.

Usage Guideline:

A Low−Ambient Pressure Switch Low−Ambient Controller must be used when cooling operation is used at outdoor temperatures below 55°F (12.8°C).

8. Low−Ambient Controller

A fan−speed control device activated by a temperature sensor, designed to control condenser fan motor speed in response to the saturated, condensing temperature during operation in cooling mode only. For outdoor temperatures down to 0°F (−17.8°C), it maintains condensing temperature at 100°F ±10°F (37.8°C ± 5.5°C).

Usage Guideline:

A Low Ambient Controller or Low−Ambient Pressure Switch must be used when cooling operation is used at outdoor temperatures below 55°F (12.8°C).

Suggested for all commercial applications.

10. Support Feet

Four stick−on plastic feet that raise the unit 4 in. (101.6 mm) above the mounting pad. This allows sand, dirt, and other debris to be flushed from the unit base, minimizing corrosion.

Usage Guideline:

Suggested in the following applications:

Coastal installations.

Windy areas or where debris is normally circulating.

Rooftop installations.

For improved sound ratings.

11. Thermostatic Expansion Valve (TXV)

A modulating flow−control valve which meters refrigerant liquid flow rate into the evaporator in response to the superheat of the refrigerant gas leaving the evaporator.

Kit includes valve, adapter tubes, and external equalizer tube. Hard shut off types are available.

NOTE: When using a hard shut off TXV with single phase reciprocating compressors, a Compressor Start Assist Capacitor and Relay is required.

Usage Guideline:

Required to achieve AHRI ratings in certain equipment combinations. Refer to combination ratings.

Hard shut off TXV or LLS required in air conditioner long line applications.

Required for use on all zoning systems.

12. Time−Delay Relay

An SPST delay relay which briefly continues operation of indoor blower motor to provide additional cooling after the compressor cycles off.

NOTE: Most indoor unit controls include this feature. For those that do not, use the guideline below.

Usage Guideline:

For improved efficiency ratings for certain combinations of indoor and outdoor units. Refer to AHRI Unitary Directory.

13. Winter Start Control

This control is designed to alleviate nuisance opening of the low−pressure switch by bypassing it for the first 3 minutes of operation.

ACCESSORY USAGE GUIDELINE

ACCESSORY	REQUIRED FOR LOW−AMBIENT COOLING APPLICATIONS (Below 55°F/12.8°C)	REQUIRED FOR LONG LINE APPLICATIONS* (Over 80 ft./24.38 m)	REQUIRED FOR SEA COAST APPLICATIONS (Within 2 miles/3.22 km)
Compressor Start Assist Capacitor and Relay	Yes	Yes	No
Crankcase Heater	Yes	Yes	No
Evaporator Freeze Thermostat	Yes	No	No
Hard Shut−Off TXV	Yes	Yes	Yes
Liquid Line Solenoid Valve	No	No	No
Low−ambient Pressure Switch	Yes	No	No
Support Feet	Recommended	No	Recommended
Winter Start Control	Yes	No	No

* 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 Split−System Longline Application Guideline.

† Required for Low−Ambient Controller.

ACCESSORIES

Part Number	Description	Used On Model Size
NASA003CH	Crankcase Heater for Scroll Compressor (208/230 V)	18, 24, 30, 36
NASA001CH	Crankcase Heater for Scroll Compressor (208/230 V)	42, 48, 60
NASA001SC	Start Component − PTC Device	ALL
NASA00201FS	Evaporator Freeze Thermostat	ALL
NASA403PS	Low Pressure Switch, AC, R−410A	ALL
NASA404PS	High Pressure Switch, AC or HP, R−410A	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	18, 30, 36
NASA001SF	Support Feet, 4” (102mm) tall	42
NASA001SJ	Sound Jacket, Compressor	18, 24, 30, 36, 42, 48
NASA003SJ	Sound Jacket, Compressor	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	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)	60