



# HSA6

## DXC 1600

### Product Specifications

#### 16 SEER SINGLE STAGE AIR CONDITIONER WITH OBSERVER® COMMUNICATING CONTROL SYSTEM

1½ THRU 5 TONS SPLIT SYSTEM — 208 / 230 Volt, 1-phase, 60 Hz

#### REFRIGERATION CIRCUIT

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

#### PERFORMANCE

- Communicating, self-configuring operation when used with Observer Wall Control (TSTAT0201CW)
- Outdoor temperature sensor factory installed
- Compressor sound blanket standard
- Isolation compressor grommets

#### EASY TO INSTALL AND SERVICE

- Text based diagnostics with Observer Communicating Wall Control
- Easy access service valves on all models
- Innovative control box design
- High and low pressure switches
- Only two screws to access control panel
- Factory charged with R-410A refrigerant

#### BUILT TO LAST

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

#### LIMITED WARRANTY\*

- 5-year No Hassle Replacement™ limited warranty
- 5-year parts limited warranty (include compressor & 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.



TSTAT0201CW  
Recommended  
(sold separately)



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](http://www.ahridirectory.org).

Model Number	Size (tons)	Nominal Btu/hr	Min. Circuit Ampacity	Max. Fuse or Breaker	Operating Dimensions height x width x depth in. (mm)	Ship / Operating Weight lbs. (kg)
HSA618GKA	1½	18,000	11.8	20	28- 9/16 x 31- 3/16 x 31- 3/16 (726 x 792 x 792)	213 / 176 (96 / 80)
HSA624GKA	2	24,000	17.6	25	28- 9/16 x 31- 3/16 x 31- 3/16 (726 x 792 x 792)	212 / 176 (96 / 80)
HSA630GKA	2½	30,000	16.7	25	32 x 31- 3/16 x 31- 3/16 (813 x 792 x 792)	223 / 187 (101 / 85)
HSA636GKA	3	36,000	18.1	30	29- 7/8 x 35 x 35 (760 x 889 x 889)	243 / 200 (110 / 91)
HSA642GKA	3½	42,000	23.6	40	40- 1/8 x 35 x 35 (1019 x 889 x 889)	297 / 253 (135 / 115)
HSA648GKA	4	48,000	26.1	40	40- 1/8 x 35 x 35 (1019 x 889 x 889)	340 / 295 (155 / 114)
HSA660GKA	5	60,000	28.0	40	46- 7/8 x 35 x 35 (1191 x 889 x 889)	374 / 327 (169 / 148)

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:	<b>H</b>	<b>S</b>	<b>A</b>	<b>6</b>	<b>18</b>	<b>G</b>	<b>K</b>	<b>A</b>	<b>1</b>	<b>0</b>	<b>0</b>
H = Airquest Mainline N = Airquest Entry <b>BRANDING</b>											
S = Single Stage Communicating <b>KEY CHARACTERISTIC</b>											
A = Air Conditioner H = Heat Pump <b>TYPE</b>											
3 = 13 SEER 4 = 14 SEER 5 = 15 SEER 6 = 16 SEER 7 = 17 SEER 8 = 18 SEER <b>NOMINAL EFFICIENCY</b>											
18 = 18,000 BTUH = 1½ tons 24 = 24,000 BTUH = 2 tons 30 = 30,000 BTUH = 2½ tons 36 = 36,000 BTUH = 3 tons 42 = 42,000 BTUH = 3½ tons 48 = 48,000 BTUH = 4 tons 60 = 60,000 BTUH = 5 tons <b>NOMINAL CAPACITY</b>											
A = Standard Grille G = Coil Guard Grille C = Coastal <b>FEATURES</b>											
K = 208/230- 1- 60 <b>VOLTAGE</b>											
Sales Code											
Engineering Revision											
Extra Digit											
Extra Digit											

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

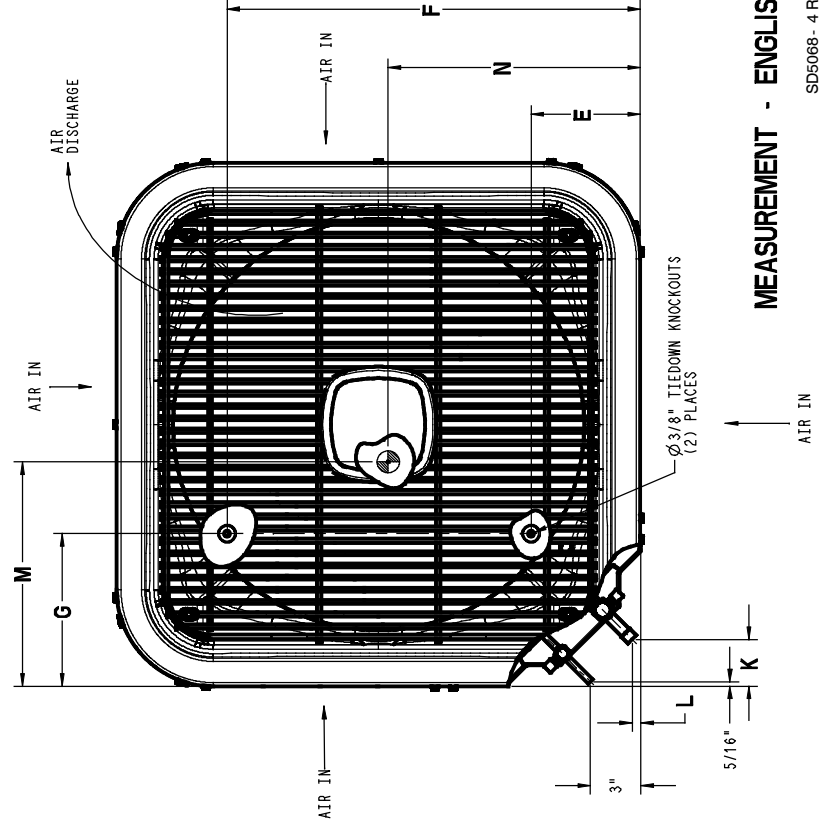
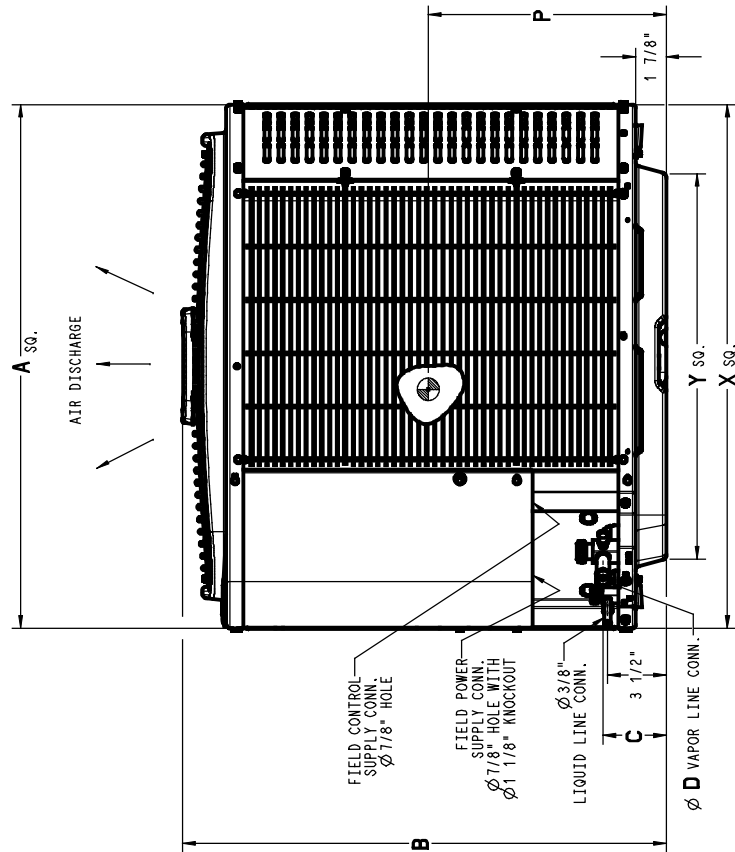
UNIT	SERIES	ELECTRICAL CHARACTERISTICS		A	B	C	D	E	F	G	K	L	M	N	P	OPERATING WEIGHT(lbs)	SHIPPING WEIGHT(lbs)	SHIPPING DIMENSIONS (L x W x H)	
*SA618-A	1	X	0	0	31 3/16"	28 11/16"	3 3/4"	3/4"	6 9/16"	24 11/16"	9 1/8"	2 13/16"	1/2"	15 1/2"	17"	14"	176	213	32 5/16" X 35 1/2" X 35 15/16"
*SA624-A	1	X	0	0	31 3/16"	28 11/16"	3 3/4"	3/4"	6 9/16"	24 11/16"	9 1/8"	2 13/16"	1/2"	16 1/4"	15 1/4"	14"	176	213	32 5/16" X 35 1/2" X 35 15/16"
*SA630-A	1	X	0	0	31 3/16"	32 1/8"	3 3/4"	3/4"	6 9/16"	24 11/16"	9 1/8"	2 13/16"	1/2"	15"	14 3/4"	14 3/4"	187	223	32 5/16" X 35 1/2" X 39 3/8"
*SA636-A	1	X	0	0	35"	30 1/16"	3 7/8"	7/8"	6 9/16"	28 7/16"	9 1/8"	2 15/16"	5/8"	17"	16 3/4"	14"	200	243	36 1/8" X 39 1/4" X 35 15/16"
*SA642-A	1	X	0	0	35"	40 1/4"	3 7/8"	7/8"	6 9/16"	28 7/16"	9 1/8"	2 15/16"	5/8"	17"	18 1/2"	18 1/2"	253	297	36 1/8" X 39 1/4" X 46 1/8"
*SA648-A	1	X	0	0	35"	40 1/4"	3 7/8"	7/8"	6 9/16"	28 7/16"	9 1/8"	2 15/16"	5/8"	17 1/2"	16 1/4"	18"	295	340	36 1/8" X 39 1/4" X 46 1/8"
*SA660-A	1	X	0	0	35"	47 1/16"	3 7/8"	7/8"	6 9/16"	28 7/16"	9 1/8"	2 15/16"	5/8"	17 1/2"	17 1/4"	21"	327	374	36 1/8" X 39 1/4" X 50 13/16"

- NOTES:
- 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.
  - MINIMUM OUTDOOR OPERATING AMBIENT IN COOLING MODE IS 55°F, MAX. 125°F.
  - SERIES DESIGNATION IS THE 10TH POSITION OF THE UNIT MODEL NUMBER.
  - CENTER OF GRAVITY
  - 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"
18,24,30	25 3/4"	20 1/16"
36,42,48,60	31 3/16"	23"
	35"	26 3/4"

X = YES  
O = NO

208-230-160	230-160	208/230-3-60	460-3-60
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MEASUREMENT - ENGLISH

SD5068 - 4 REV B

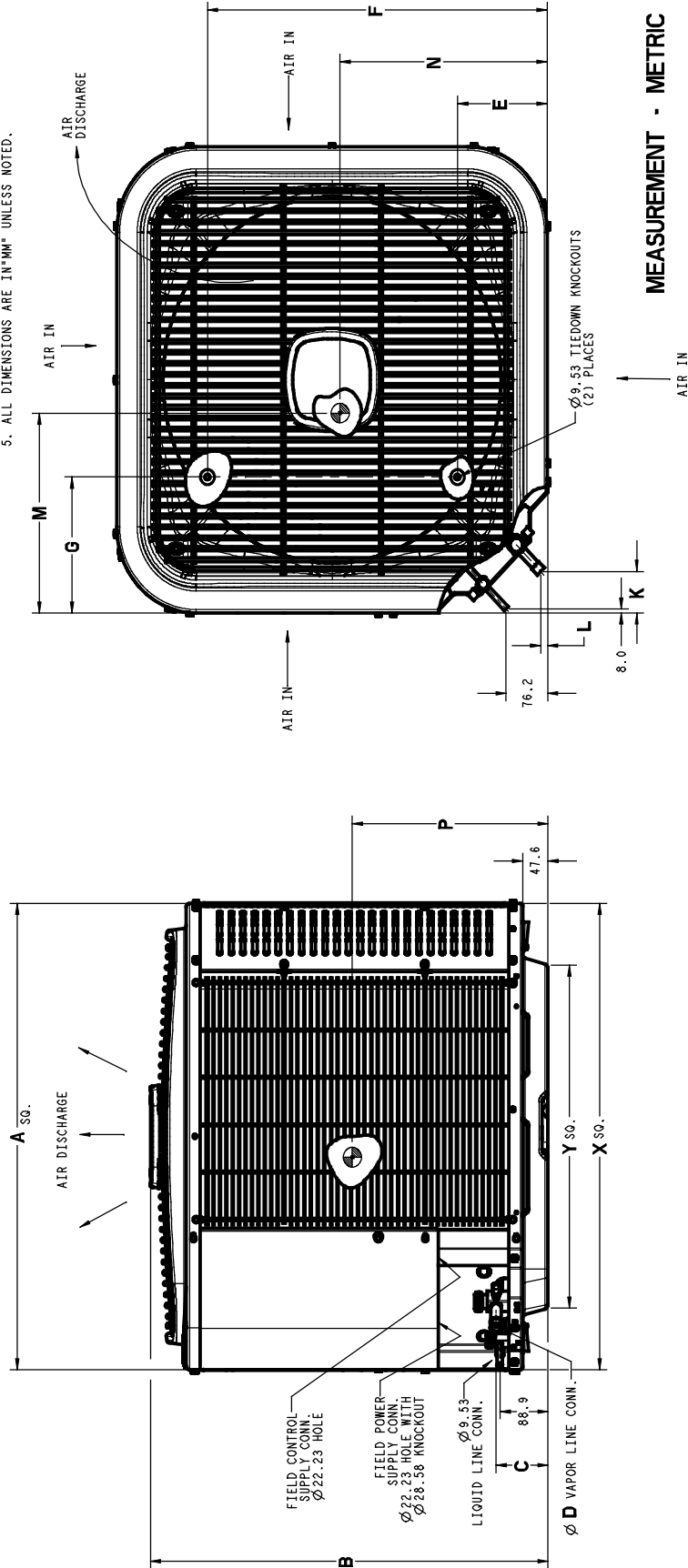
UNIT	SERIES	ELECTRICAL CHARACTERISTICS	A	B	C	D	E	F	G	K	L	M	N	P	OPERATING WEIGHT (Kgs)	SHIPPING WEIGHT (Kgs)	SHIPPING DIMENSIONS (L x W x H)
*SA618-A	1	X 0 0	782.2	729.3	95.2	19.0	166.7	627.1	231.8	71.4	12.7	393.7	431.8	355.6	79.8	96.6	821.2 X 901.2 X 913.2
*SA624-A	1	X 0 0	782.2	729.3	95.2	19.0	166.7	627.1	231.8	71.4	12.7	412.8	387.4	355.6	79.8	96.6	821.2 X 901.2 X 913.2
*SA630-A	1	X 0 0	782.2	815.6	95.2	19.0	166.7	627.1	231.8	71.4	12.7	381.0	400.1	374.7	84.8	101.2	821.2 X 901.2 X 999.5
*SA636-A	1	X 0 0	889.0	763.9	98.6	22.2	166.7	722.3	231.8	74.6	15.9	431.8	425.5	355.6	90.7	110.2	917.7 X 997.7 X 913.2
*SA642-A	1	X 0 0	889.0	1022.9	98.6	22.2	166.7	722.3	231.8	74.6	15.9	431.8	406.4	469.9	114.8	134.7	917.7 X 997.7 X 1172.2
*SA648-A	1	X 0 0	889.0	1022.9	98.6	22.2	166.7	722.3	231.8	74.6	15.9	444.5	412.8	457.2	133.8	145.2	917.7 X 997.7 X 1172.2
*SA660-A	1	X 0 0	889.0	1195.7	98.6	22.2	166.7	722.3	231.8	74.6	15.9	444.5	438.2	533.4	169.6	189.6	917.7 X 997.7 X 1290.3

NOTES:

- ALLOW 762.0 CLEARANCE TO SERVICE SIDE OF UNIT. 421.9 (2) ABOVE UNIT. 518.2 (2) ABOVE UNIT. 304.8 ON REMAINING SIDE, AND 609.6 BETWEEN UNITS FOR PROPER AIRFLOW.
- MINIMUM OUTDOOR OPERATING AMBIENT IN COOLING MODE IS 13°C. MAX. 52°C.
- SERIES DESIGNATION IS THE 10TH POSITION OF THE UNIT MODEL NUMBER.
- CENTER OF GRAVITY
- ALL DIMENSIONS ARE IN\*MM\* UNLESS NOTED.

UNIT SIZE	X* MIN. GROUND MOUNTING PAD APPLICATION DIMENSIONS	Y* MIN. ROOF-TOP MOUNTING PAD APPLICATION DIMENSIONS
-	587.4	451.3
-	654.0	518.5
18,24,30	782.2	583.2
36,42,48,60	889.0	679.7

X = YES  
O = NO



PHYSICAL DATA

Model Size	18	24	30	36	42	48	60
Compressor Type	Scroll						
REFRIGERANT	R-410A						
Control	TXV (R-410A Hard shutoff)						
Charge lb (Kg)	5.25 (2.38)	6.00 (2.72)	6.81 (3.09)	7.00 (3.18)	8.62 (3.91)	13.00 (5.9)	14.50 (6.58)
COND FAN	Propeller Type, Direct Drive						
Air Discharge	Vertical						
Air Qty (CFM)	2233	2614	2614	3223	3810	4046	4046
Motor HP	1/12	1/10	1/10	1/12	1/5	1/4	1/4
Motor RPM	800	800	800	800	800	800	800
COND COIL							
Face Area (Sq ft)	15.07	15.07	17.22	17.58	25.12	25.12	30.14
Fins per In.	25	25	25	25	25	20	20
Rows	1	1	1	1	1	2	2
Circuits	3	4	4	4	6	7	8
VALVE CONNECT. (In. ID)							
Vapor	3/4	3/4	3/4	7/8	7/8	7/8	7/8
Liquid	3/8	3/8	3/8	3/8	3/8	3/8	3/8
REFRIGERANT TUBES (In. OD)							
Rated Vapor*	3/4			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.

ELECTRICAL DATA

UNIT SIZE	V/PH	OPER VOLTS*		COMPR		FAN	MCA	MAX FUSE** or CKT BRK AMPS
		MAX	MIN	LRA	RLA	FLA		
18	208/230/1	253	197	48.0	9.0	0.45	11.8	20
24				58.3	13.5	0.70	17.5	25
30				64.0	12.8	0.70	16.7	25
36				77.0	14.1	0.60	18.2	30
42				112.0	17.9	1.00	23.4	40
48				109.0	19.9	1.20	26.1	40
60				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 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 2007 requirements of ASHRAE Standards 90.1

A- WEIGHTED SOUND POWER (dBA)

UNIT SIZE	STANDARD RATING	TYPICAL OCTAVE BAND SPECTRUM (without tone adjustment)						
		125	250	500	1000	2000	4000	8000
18	66	52.0	56.5	60.5	61.5	59.0	53.5	44.5
24	67	51.5	58.0	61.5	62.5	59.5	54.0	47.5
30	68	56.5	60.0	63.0	62.5	59.5	54.5	46.0
36	69	55.5	61.0	62.0	62.5	61.0	57.0	49.0
42	68	53.0	60.5	62.0	63.0	60.5	58.0	51.0
48	70	55.0	61.0	63.5	63.0	60.5	57.0	52.0
60	70	55.0	61.5	63.0	63.0	59.5	57.0	51.5

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

**CHARGING SUBCOOLING (TXV- TYPE EXPANSION DEVICE)**

UNIT SIZE	REQUIRED SUBCOOLING °F (°C)
18	9 (5.0)
24	11 (6.1)
30	10 (5.6)
36	11 (6.1)
42	11 (6.1)
48	12 (6.7)
60	12 (6.7)

**REFRIGERANT CHARGE ADJUSTMENTS**

Liquid Line Size	R- 410A Charge oz/ft (g/m)
	0.60 (17.74) (Factory charge for lineset = 9 oz / 266.16 g)
3/8	
5/16	0.40 (11.83)
1/4	0.27 (7.98)

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

**NOTE:** Conditions must be favorable for charging by subcooling method. Indoor temperature must be 70°F to 80°F (21.1°C to 26.7°C), and outdoor temperature must be 70°F to 100°F (21.1°C to 37.8°C). If outside these conditions, adjust charge for long line sets by weigh-in method.

**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 charts below shows when an application requires a TXV and long line accessories due to lineset length.

For Air Conditioner systems, the charts below show when an application is considered Long Line:

**AC with R-410A Refrigerant Long Line Description ft (m) Beyond these lengths, a TXV is required**

Total Length	Outdoor Unit Above or Below Indoor Unit
TXV required beyond 50 ft. (15.2 m)	TXV required beyond 20 ft. (6.1 m)

**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 + TXV	No accessories needed within allowed lengths	No accessories needed within allowed lengths	175 (53.3)
5/16 + TXV	120 (36.6)	50 (15.2) vertical or 120 (36.6) total	120 (36.6)
3/8 + TXV	80 (24.4)	35 (10.7) vertical or 80 (24.4) total	80 (24.4)

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:

Vapor Line Sizing and Cooling Capacity Losses — R- 410A Refrigerant 1- Stage Air Conditioner Applications

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)
18 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	3	3	
		3/4	0	0	0	0	1	1	1	1	
24 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
30 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
36 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
42 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
48 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
60 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

Consult the Long Line Application Guideline document before purchasing/installing line sets.

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

Unit Size	Indoor Model	Furnace Model	AHRI Standard Ratings					
			Cooling 95° F (35° C)					
			Capacity	Factory Enhance	SEER			EER
					Standard	W/ Field TDR	W/ Field TXV	
HSA618GKA	*EN(A,D)4X19*17**		18000	TXV		14.5		12.0
HSA624GKA	*EN(A,D)4X31*17**		23800	TXV		14.5		12.0
HSA630GKA	*EN(A,D)4X31*17**		28400	TXV		14.5		12.0
HSA636GKA	*EN(A,D)4X37*17**		34400	TXV		14.5		12.0
HSA642GKA	*EN(A,D)4X43*24**		42000	TXV		14.5		12.0
HSA648GKA	*EN(A,D)4X61*24**		46500	TXV		14.5		12.5
HSA660GKA	*EN(A,D)4X61*24**		55000	TXV		14.5		12.5

† For coils not listed with a matching furnace or blower, coil rating applies with any indoor blower device.

TESTED AHRI COMBINATION RATINGS\*

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

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

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

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

Or scan this QR code:



# 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**	Capacity MBtuh		Total Sys. KW**			
		Total	Sens†		Total	Sens†		Total	Sens†		Total	Sens†		Total	Sens†		Total	Sens†		Total	Sens†		Total	Sens†	Total
		*SA618GKA Outdoor Section With EN(A,D)X19*17**+ TDR Indoor Section																							
525	57 (13.9)	21.63	10.95	1.12	20.61	10.57	1.26	19.54	10.18	1.41	18.41	9.76	1.58	17.21	9.34	1.77	15.94	8.89	1.97						
	62 (16.7)	19.55	13.28	1.12	18.63	12.90	1.26	17.65	12.51	1.41	16.62	12.09	1.57	15.53	11.66	1.75	14.37	11.21	1.96						
	63 (17.2)††	18.05	12.76	1.12	17.20	12.38	1.26	16.30	11.98	1.40	15.33	11.57	1.56	14.31	11.14	1.75	13.23	10.68	1.96						
	67 (19.4)	17.71	15.58	1.12	16.88	15.21	1.25	16.01	14.81	1.40	15.10	14.39	1.56	14.22	14.22	1.75	13.36	13.36	1.96						
	72 (22.2)	17.06	17.06	1.12	16.42	16.42	1.25	15.73	15.73	1.40	14.99	14.99	1.56	14.20	14.20	1.75	13.33	13.33	1.96						
600	57 (13.9)	22.11	11.53	1.14	21.03	11.14	1.29	19.90	10.74	1.44	18.72	10.32	1.61	17.48	9.88	1.79	16.16	9.43	2.00						
	62 (16.7)††	19.99	14.19	1.14	19.02	13.81	1.28	18.00	13.40	1.43	16.92	12.98	1.60	15.79	12.54	1.78	14.58	12.08	1.99						
	63 (17.2)††	18.48	13.61	1.14	17.58	13.22	1.28	16.63	12.82	1.43	15.63	12.39	1.59	14.56	11.95	1.78	13.44	11.49	1.98						
	67 (19.4)	18.18	16.82	1.14	17.33	16.42	1.28	16.46	16.46	1.43	15.67	15.67	1.59	14.81	14.81	1.78	13.88	13.88	1.99						
	72 (22.2)	17.88	17.88	1.14	17.18	17.18	1.28	16.44	16.44	1.43	15.64	15.64	1.59	14.79	14.79	1.78	13.86	13.86	1.99						
675	57 (13.9)	22.46	12.08	1.17	21.34	11.68	1.32	20.17	11.27	1.47	18.95	10.85	1.64	17.66	10.41	1.82	16.31	9.95	2.03						
	62 (16.7)	20.34	15.07	1.17	19.32	14.67	1.31	18.26	14.26	1.46	17.15	13.83	1.63	15.98	13.38	1.81	14.75	12.91	2.02						
	63 (17.2)††	18.80	14.42	1.17	17.86	14.03	1.31	16.88	13.62	1.46	15.84	13.18	1.62	14.75	12.73	1.80	13.80	12.25	2.01						
	67 (19.4)	18.61	18.52	1.17	17.85	17.85	1.31	17.05	17.05	1.46	16.21	16.21	1.62	15.30	15.30	1.80	14.32	14.32	2.01						
	72 (22.2)	18.57	18.57	1.17	17.82	17.82	1.31	17.03	17.03	1.46	16.18	16.18	1.62	15.27	15.27	1.80	14.30	14.30	2.01						
		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**	Capacity MBtuh		Total Sys. KW**			
		Total	Sens†		Total	Sens†		Total	Sens†		Total	Sens†		Total	Sens†		Total	Sens†		Total	Sens†		Total	Sens†	Total
700	57 (13.9)	28.62	14.37	1.54	27.23	13.51	1.73	25.76	12.66	1.94	24.22	11.82	2.16	22.61	10.99	2.41	20.92	10.17	2.69						
	62 (16.7)	26.01	17.59	1.54	24.72	16.64	1.73	23.39	15.71	1.93	21.99	14.77	2.15	20.51	13.85	2.40	18.97	12.93	2.68						
	63 (17.2)††	24.07	16.91	1.55	22.89	15.98	1.73	21.64	15.06	1.92	20.33	14.14	2.14	18.96	13.23	2.39	17.51	12.32	2.67						
	67 (19.4)	23.66	20.76	1.55	22.51	19.72	1.73	21.32	18.69	1.92	20.11	20.07	2.14	18.99	18.99	2.39	17.81	17.81	2.67						
	72 (22.2)	23.01	23.01	1.55	22.09	22.09	1.73	21.11	21.11	1.92	20.07	20.07	2.14	18.96	18.96	2.39	17.78	17.78	2.67						
800	57 (13.9)	29.14	15.12	1.58	27.70	14.25	1.77	26.17	13.37	1.98	24.57	12.50	2.20	22.90	11.94	2.45	21.16	10.79	2.73						
	62 (16.7)	26.54	18.82	1.58	25.20	17.83	1.77	23.80	16.84	1.97	22.34	15.87	2.19	20.81	14.90	2.43	19.21	13.94	2.72						
	63 (17.2)††	24.59	18.05	1.58	23.34	17.08	1.76	22.05	16.12	1.96	20.69	15.16	2.18	19.26	14.21	2.43	17.77	13.26	2.71						
	67 (19.4)	24.26	22.42	1.58	23.11	23.01	1.76	22.04	22.04	1.96	20.92	20.92	2.18	19.73	19.73	2.43	18.47	18.47	2.71						
	72 (22.2)	24.05	24.05	1.58	23.05	23.05	1.76	22.00	22.00	1.96	20.89	20.89	2.18	19.71	19.71	2.43	18.45	18.45	2.71						
900	57 (13.9)	29.51	15.85	1.62	28.04	14.95	1.81	26.46	14.05	2.02	24.81	13.15	2.24	23.10	12.27	2.49	21.31	11.39	2.77						
	62 (16.7)	26.93	20.00	1.62	25.54	18.97	1.80	24.10	17.94	2.01	22.60	16.92	2.23	21.03	15.91	2.47	19.40	14.90	2.75						
	63 (17.2)††	24.97	19.15	1.62	23.69	18.14	1.80	22.35	17.14	2.00	20.95	16.14	2.22	19.49	15.15	2.47	17.97	14.15	2.75						
	67 (19.4)	24.96	24.96	1.62	23.89	23.89	1.80	22.77	22.77	2.00	21.59	21.59	2.22	20.34	20.34	2.47	19.00	19.00	2.75						
	72 (22.2)	24.92	24.92	1.62	23.86	23.86	1.80	22.74	22.74	2.00	21.56	21.56	2.22	20.31	20.31	2.47	18.98	18.98	2.75						

See notes on pg. 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**	
Total	Sens†			Total	Sens†		Total	Sens†		Total	Sens†		Total	Sens†		Total	Sens†		
		*SA330GKA Outdoor Section With EN(A,D)4X31*17**+ TDR Indoor Section																	
900	57 (13.9)	34.12	17.11	1.85	32.53	16.70	2.08	30.88	16.26	2.34	29.15	15.80	2.64	27.28	15.28	2.99	25.26	14.70	3.40
	62 (16.7)	31.02	21.15	1.86	29.57	20.76	2.09	28.06	20.35	2.35	26.46	19.90	2.65	24.74	19.40	3.00	22.87	18.83	3.40
	63 (17.2)††	28.79	20.32	1.87	27.44	19.93	2.09	26.03	19.51	2.35	24.52	19.04	2.65	22.89	18.52	3.00	21.12	17.93	3.40
	67 (19.4)	28.37	25.13	1.87	27.08	24.75	2.09	25.78	25.70	2.35	24.55	24.55	2.65	23.21	23.21	3.00	21.75	21.75	3.40
1000	57 (13.9)	34.56	17.82	1.89	32.92	17.41	2.11	31.23	16.97	2.38	29.45	16.51	2.68	27.53	15.99	3.03	25.46	15.41	3.44
	62 (16.7)	31.45	22.30	1.90	29.95	21.91	2.12	28.40	21.50	2.38	26.76	21.05	2.68	25.00	20.54	3.03	23.09	19.87	3.44
	63 (17.2)††	29.21	21.39	1.90	27.81	21.00	2.13	26.36	20.57	2.39	24.81	20.10	2.69	23.15	19.58	3.04	21.35	18.98	3.44
	67 (19.4)	28.93	28.68	1.90	27.74	27.74	2.13	26.55	26.55	2.39	25.27	25.27	2.69	23.88	23.88	3.03	22.35	22.35	3.44
1125	57 (13.9)	34.98	18.68	1.93	33.28	18.26	2.16	31.54	17.83	2.42	29.70	17.36	2.73	27.74	16.84	3.08	25.63	16.26	3.49
	62 (16.7)	31.86	23.68	1.94	30.31	23.29	2.17	28.73	22.88	2.43	27.04	22.43	2.73	25.25	21.91	3.08	23.32	21.32	3.49
	63 (17.2)††	29.61	22.67	1.94	28.18	22.28	2.17	26.68	21.85	2.43	25.10	21.38	2.73	23.41	20.84	3.08	21.59	20.22	3.49
	67 (19.4)	29.84	29.84	1.94	28.63	28.63	2.17	27.38	27.38	2.43	26.02	26.02	2.73	24.56	24.56	3.08	22.96	22.96	3.49
1200	57 (13.9)	41.79	21.33	2.30	39.58	20.21	2.55	37.29	19.10	2.83	34.92	17.98	3.14	32.46	16.86	3.51	29.88	15.74	3.93
	62 (16.7)	37.98	26.27	2.28	35.95	25.04	2.53	33.86	23.81	2.81	31.68	22.58	3.12	29.42	21.34	3.49	27.06	20.10	3.92
	63 (17.2)††	35.23	25.25	2.27	33.34	24.04	2.52	31.38	22.83	2.79	29.34	21.61	3.11	27.22	20.39	3.48	25.00	19.15	3.91
	67 (19.4)	34.66	31.16	2.26	32.83	29.80	2.51	30.98	28.42	2.79	28.22	28.22	3.11	27.47	27.47	3.48	25.61	25.61	3.91
1350	57 (13.9)	42.51	22.47	2.36	40.20	21.32	2.61	37.84	20.17	2.89	35.39	19.02	3.20	32.84	17.87	3.57	30.20	16.71	3.99
	62 (16.7)	38.68	28.11	2.34	36.57	26.83	2.59	34.40	25.54	2.87	32.16	24.26	3.18	29.82	22.96	3.55	27.40	21.67	3.97
	63 (17.2)††	35.91	26.96	2.33	33.94	25.70	2.58	31.91	24.44	2.85	29.80	23.17	3.17	27.61	21.89	3.54	25.35	20.80	3.97
	67 (19.4)	35.54	35.26	2.32	33.84	33.84	2.58	32.14	32.14	2.85	30.35	30.35	3.17	28.49	28.49	3.54	26.52	26.52	3.97
1500	57 (13.9)	43.03	23.57	2.42	40.66	22.38	2.67	38.23	21.20	2.95	35.70	20.87	3.26	33.10	18.84	3.63	30.39	17.85	4.04
	62 (16.7)	39.19	29.87	2.40	37.03	28.54	2.65	34.81	27.21	2.93	32.50	25.82	3.24	30.12	24.52	3.63	27.67	23.16	4.03
	63 (17.2)††	36.41	28.60	2.39	34.39	27.29	2.64	32.31	25.98	2.91	30.15	24.66	3.23	27.92	23.33	3.60	25.62	21.97	4.03
	67 (19.4)	36.68	36.68	2.39	34.95	34.95	2.64	33.16	33.16	2.92	31.28	31.28	3.24	29.32	29.32	3.60	27.25	27.25	4.03
1650	57 (13.9)	43.63	24.63	2.44	41.26	24.63	2.68	39.00	22.38	3.00	36.57	21.95	3.30	34.00	20.43	3.70	31.67	19.32	4.03
	62 (16.7)	39.81	30.91	2.42	37.61	29.81	2.67	35.31	28.51	2.95	32.81	26.51	3.27	30.71	25.51	3.67	28.11	23.11	4.03
	63 (17.2)††	37.01	29.81	2.40	35.11	28.51	2.65	33.01	27.21	2.93	30.51	25.81	3.23	28.01	23.81	3.60	26.01	21.97	4.03
	67 (19.4)	36.63	36.63	2.39	34.90	34.90	2.64	33.11	33.11	2.92	31.23	31.23	3.24	29.28	29.28	3.60	27.21	27.21	4.03

See notes on pg. 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**	
				Total		Sens†		Total		Sens†		Total		Sens†		Total		Sens†		Total		Sens†		Total	
				*SA642GKA Outdoor Section With EN(A,D)4X43*24**+ TDR Indoor Section																					
1225	57 (13.9)	49.34	24.70	2.66	47.47	24.08	3.01	45.41	23.40	3.42	43.15	22.67	3.88	40.71	21.89	4.39	38.06	21.06	4.98						
	62 (16.7)	44.95	30.44	2.64	43.25	29.86	2.99	41.39	29.23	3.38	39.33	28.54	3.84	37.11	27.79	4.36	34.71	26.89	4.94						
	63 (17.2)††	41.76	29.29	2.63	40.20	28.71	2.97	38.47	28.07	3.36	36.56	27.37	3.82	34.50	26.62	4.33	32.25	25.80	4.91						
	67 (19.4)	41.12	36.11	2.63	39.63	35.56	2.97	38.01	34.93	3.36	36.38	36.38	3.82	34.75	34.75	4.33	32.94	32.94	4.92						
	72 (22.2)	40.25	40.25	2.62	39.10	39.10	2.96	37.79	37.79	3.36	36.33	36.33	3.82	34.70	34.70	4.33	32.90	32.90	4.92						
1400	57 (13.9)	50.16	25.99	2.73	48.18	24.68	3.49	46.03	24.68	3.95	43.68	23.95	3.95	41.13	23.16	4.47	38.39	22.32	5.06						
	62 (16.7)	45.74	32.51	2.71	43.96	31.94	3.06	42.00	31.30	3.46	39.87	30.61	3.92	37.56	29.85	4.43	35.08	29.04	5.02						
	63 (17.2)††	42.55	31.23	2.70	40.90	30.64	3.04	39.08	30.00	3.44	37.10	29.29	3.89	34.95	28.52	4.41	32.65	27.69	4.99						
	67 (19.4)	42.11	38.86	2.70	40.72	40.72	3.04	39.30	39.30	3.44	37.71	37.71	3.90	35.95	35.95	4.42	34.01	34.01	5.01						
	72 (22.2)	41.92	41.92	2.70	40.66	40.66	3.04	39.24	39.24	3.44	37.65	37.65	3.90	35.90	35.90	4.42	33.97	33.97	5.01						
1575	57 (13.9)	50.74	27.21	2.78	48.70	26.58	3.16	46.46	25.90	3.56	44.03	25.16	4.03	41.41	24.38	4.55	38.80	23.54	5.14						
	62 (16.7)	46.32	34.50	2.78	44.48	33.92	3.13	42.46	32.59	3.53	40.26	32.59	3.99	37.89	31.82	4.51	35.38	30.98	5.10						
	63 (17.2)††	43.12	33.07	2.77	41.42	32.49	3.11	39.54	31.84	3.51	37.50	31.12	3.97	35.30	30.34	4.48	32.96	29.47	5.07						
	67 (19.4)	43.35	43.35	2.77	42.00	42.00	3.11	40.42	40.42	3.52	38.78	38.78	3.98	36.91	36.91	4.50	34.86	34.86	5.09						
	72 (22.2)	43.29	43.29	2.77	41.94	41.94	3.11	40.42	40.42	3.52	38.73	38.73	3.98	36.87	36.87	4.50	34.82	34.82	5.09						
				CONDENSER ENTERING AIR TEMPERATURES ° F (° C)																					
				*SA648GKA Outdoor Section With EN(A,D)4X61*24**+ TDR Indoor Section																					
1400	57 (13.9)	56.26	27.99	2.63	53.43	27.01	3.06	50.50	26.01	3.49	47.48	24.98	3.94	44.30	23.92	4.41	40.93	22.81	4.90						
	62 (16.7)	50.89	34.43	2.79	48.38	33.47	3.18	45.78	32.48	3.58	43.08	31.47	4.00	40.25	30.42	4.44	37.23	29.31	4.92						
	63 (17.2)††	47.07	33.02	2.89	44.78	32.08	3.26	42.40	31.11	3.64	39.93	30.12	4.03	37.32	29.07	4.46	34.55	27.98	4.92						
	67 (19.4)	46.35	40.80	2.90	44.17	39.83	3.27	41.98	41.83	3.64	39.98	39.98	4.03	37.84	37.84	4.45	35.52	35.52	4.92						
	72 (22.2)	45.55	45.55	2.92	43.76	43.76	3.27	41.89	41.89	3.64	39.91	39.91	4.03	37.78	37.78	4.45	35.47	35.47	4.92						
1600	57 (13.9)	57.28	29.51	2.66	54.30	28.50	3.10	51.24	27.48	3.54	48.08	26.43	4.00	44.78	25.35	4.47	41.29	24.22	4.97						
	62 (16.7)	51.86	36.85	2.83	49.21	35.85	3.23	46.50	34.85	3.64	43.69	33.81	4.06	40.75	32.72	4.51	37.65	31.58	4.99						
	63 (17.2)††	47.99	35.27	2.94	45.57	34.29	3.31	43.10	33.30	3.70	40.52	32.28	4.10	37.82	31.20	4.53	34.97	30.07	5.00						
	67 (19.4)	47.61	47.41	2.94	45.63	45.63	3.31	43.61	43.61	3.69	41.47	41.47	4.09	39.16	39.16	4.52	36.67	36.67	5.00						
	72 (22.2)	47.50	47.50	2.94	45.56	45.56	3.31	43.54	43.54	3.69	41.41	41.41	4.09	39.11	39.11	4.52	36.63	36.63	5.00						
1800	57 (13.9)	58.02	30.95	2.70	54.93	29.93	3.15	51.76	28.88	3.60	48.49	27.82	4.06	45.10	26.72	4.54	41.51	25.58	5.05						
	62 (16.7)	52.58	39.16	2.87	49.84	38.15	3.28	47.04	37.11	3.70	44.14	36.04	4.13	41.13	34.92	4.58	37.98	33.72	5.07						
	63 (17.2)††	48.67	37.42	2.99	46.18	36.42	3.37	43.62	35.40	3.76	40.96	34.34	4.17	38.21	33.22	4.60	35.32	31.99	5.08						
	67 (19.4)	49.21	49.21	2.96	47.13	47.13	3.35	44.96	44.96	3.74	42.67	42.67	4.15	40.23	40.23	4.59	37.59	37.59	5.07						
	72 (22.2)	49.14	49.14	2.97	47.06	47.06	3.35	44.90	44.90	3.74	42.61	42.61	4.15	40.18	40.18	4.59	37.55	37.55	5.07						

See notes on pg. 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**	
Total	Sens†			Total	Sens†		Total	Sens†		Total	Sens†		Total	Sens†		Total	Sens†		
1750	57 (13.9)	66.03	33.71	3.54	62.86	32.49	3.92	59.49	31.24	4.33	55.92	29.95	4.78	52.09	28.60	5.29	47.94	27.18	5.86
	62 (16.7)	60.16	42.01	3.52	57.34	40.81	3.90	54.33	39.55	4.30	51.12	38.25	4.75	47.67	36.88	5.26	43.93	35.42	5.83
	63 (17.2)††	55.92	40.36	3.52	53.34	39.17	3.88	50.59	37.93	4.28	47.64	36.64	4.73	44.45	35.28	5.23	41.00	33.82	5.81
	67 (19.4)	55.30	50.14	3.52	52.96	52.74	3.88	50.72	50.72	4.28	48.29	48.29	4.73	45.62	45.62	5.24	42.85	42.85	5.83
	72 (22.2)	54.87	54.87	3.51	52.85	52.85	3.88	50.64	50.64	4.28	48.23	48.23	4.73	45.56	45.56	5.24	42.60	42.60	5.83
	57 (13.9)	66.04	35.49	3.63	63.63	34.26	4.01	60.13	32.98	4.43	56.41	31.66	4.88	52.46	30.30	5.39	48.19	28.86	5.96
2000	62 (16.7)	61.07	44.91	3.62	58.11	43.67	3.99	55.00	42.39	4.40	51.67	41.04	4.85	48.13	39.82	5.36	44.32	38.08	5.93
	63 (17.2)††	56.81	43.05	3.61	54.12	41.83	3.98	51.26	40.56	4.38	48.20	39.22	4.83	44.93	37.80	5.34	41.42	36.25	5.91
	67 (19.4)	57.02	57.02	3.61	54.82	54.82	3.98	52.43	52.43	4.39	49.82	49.82	4.84	46.96	46.96	5.35	43.79	43.79	5.93
	72 (22.2)	56.95	56.95	3.61	54.75	54.75	3.98	52.36	52.36	4.39	49.76	49.76	4.84	46.90	46.90	5.35	43.74	43.74	5.93
	57 (13.9)	67.58	37.19	3.73	64.15	35.93	4.11	60.53	34.64	4.53	56.72	33.31	4.98	52.67	31.92	5.49	48.30	30.47	6.06
	62 (16.7)	61.73	47.68	3.71	58.69	46.41	4.09	55.48	45.08	4.50	52.08	43.68	4.95	48.50	42.18	5.46	44.73	44.51	6.03
2250	63 (17.2)††	57.47	45.62	3.71	54.69	44.36	4.08	51.76	43.04	4.48	48.64	41.65	4.93	45.33	40.11	5.43	41.94	41.94	6.01
	67 (19.4)	58.71	58.71	3.71	56.35	56.35	4.08	53.80	53.80	4.49	51.03	51.03	4.94	48.01	48.01	5.45	44.66	44.66	6.03
	72 (22.2)	58.64	58.64	3.71	56.29	56.29	4.08	53.74	53.74	4.49	50.98	50.98	4.94	47.96	47.96	5.45	44.62	44.62	6.03

† 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)
<b>*SA618GKA</b>									
30 (- 1.11)	TCG	14.00	13.50	13.00	12.40	11.80	11.00	10.20	9.30
	SDT	65.20	74.80	84.40	94.00	103.60	113.10	122.60	132.00
	KW	0.66	0.78	0.91	1.04	1.20	1.37	1.58	1.83
35 (1.67)	TCG	15.60	15.00	14.50	13.80	13.10	12.30	11.40	10.40
	SDT	66.30	75.90	85.40	94.90	104.40	113.80	123.20	132.70
	KW	0.65	0.77	0.90	1.04	1.20	1.38	1.58	1.83
40 (4.44)	TCG	17.30	16.70	16.10	15.30	14.60	13.70	12.70	11.70
	SDT	67.50	76.90	86.40	95.80	105.20	114.60	124.00	133.30
	KW	0.64	0.77	0.90	1.05	1.20	1.38	1.59	1.83
45 (7.22)	TCG	19.10	18.50	17.70	17.00	16.10	15.20	14.20	13.00
	SDT	68.70	78.00	87.40	96.70	106.10	115.40	124.80	134.10
	KW	0.63	0.77	0.90	1.05	1.21	1.39	1.59	1.83
50 (10.0)	TCG	21.10	20.30	19.50	18.70	17.80	16.70	15.70	14.50
	SDT	69.90	79.20	88.40	97.70	107.00	116.30	125.60	134.80
	KW	0.63	0.76	0.90	1.05	1.21	1.39	1.60	1.84
55 (12.78)	TCG	23.10	22.30	21.50	20.50	19.50	18.40	17.20	15.90
	SDT	71.20	80.40	89.60	98.80	108.00	117.20	126.50	135.60
	KW	0.62	0.76	0.91	1.06	1.22	1.40	1.61	1.85
<b>*SA624GKA</b>									
30 (- 1.11)	TCG	20.10	19.40	18.50	17.60	16.70	15.60	14.40	13.10
	SDT	66.10	75.80	85.30	94.90	104.40	114.00	123.40	132.80
	KW	0.97	1.13	1.29	1.46	1.65	1.87	2.13	2.42
35 (1.67)	TCG	22.30	21.40	20.50	19.50	18.50	17.30	16.00	14.70
	SDT	67.20	76.80	86.30	95.80	105.30	114.70	124.10	133.50
	KW	0.96	1.12	1.29	1.46	1.66	1.87	2.13	2.42
40 (4.44)	TCG	24.60	23.70	22.70	21.60	20.40	19.10	17.80	16.30
	SDT	68.40	77.90	87.30	96.70	106.10	115.50	124.80	134.10
	KW	0.95	1.12	1.29	1.46	1.66	1.88	2.13	2.42
45 (7.22)	TCG	27.10	26.00	24.90	23.70	22.40	21.10	19.60	18.00
	SDT	69.60	79.00	88.30	97.60	107.00	116.30	125.60	134.90
	KW	0.94	1.11	1.29	1.47	1.67	1.89	2.14	2.43
50 (10.0)	TCG	29.70	28.60	27.30	26.00	24.60	23.10	21.50	19.80
	SDT	70.80	80.10	89.40	98.70	107.90	117.20	126.40	135.60
	KW	0.93	1.11	1.29	1.47	1.67	1.90	2.15	2.43
55 (12.78)	TCG	32.50	31.20	29.90	28.40	26.90	25.30	23.50	21.70
	SDT	72.10	81.30	90.50	99.70	108.90	118.10	127.30	136.40
	KW	0.93	1.11	1.29	1.48	1.69	1.91	2.16	2.45
<b>*SA30GKA</b>									
30 (- 1.11)	TCG	23.80	22.90	21.90	20.90	19.80	18.50	17.00	15.30
	SDT	68.10	77.50	87.00	96.40	105.80	115.10	124.40	133.60
	KW	1.14	1.32	1.52	1.74	1.99	2.29	2.63	3.02
35 (1.67)	TCG	26.30	25.30	24.30	23.10	21.90	20.50	19.00	17.20
	SDT	69.40	78.70	88.10	97.40	106.70	116.00	125.30	134.40
	KW	1.15	1.33	1.52	1.75	2.00	2.30	2.64	3.03
40 (4.44)	TCG	29.00	27.90	26.80	25.50	24.20	22.80	21.10	19.20
	SDT	70.70	79.90	89.20	98.50	107.70	117.00	126.20	135.30
	KW	1.16	1.33	1.53	1.75	2.01	2.31	2.65	3.05
45 (7.22)	TCG	31.90	30.70	29.40	28.10	26.70	25.10	23.40	21.40
	SDT	72.00	81.20	90.40	99.60	108.80	118.00	127.20	136.30
	KW	1.16	1.33	1.53	1.76	2.01	2.31	2.66	3.06
50 (10.0)	TCG	35.00	33.60	32.30	30.80	29.30	27.60	25.70	23.60
	SDT	73.50	82.50	91.60	100.80	110.00	119.20	128.20	137.20
	KW	1.16	1.33	1.53	1.76	2.02	2.32	2.67	3.07
55 (12.78)	TCG	38.30	36.80	35.30	33.70	32.00	30.20	28.20	26.00
	SDT	75.00	84.00	93.00	102.10	111.20	120.30	129.30	138.20
	KW	1.15	1.33	1.53	1.76	2.02	2.32	2.67	3.08

See notes on pg. 14

# 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)
<b>*SA636GKA</b>									
30 (- 1.11)	TCG	30.50	29.20	27.80	26.30	24.70	23.00	21.20	19.20
	SDT	69.50	78.70	87.90	97.20	106.60	115.90	125.20	134.50
	KW	1.41	1.62	1.85	2.10	2.37	2.69	3.07	3.51
35 (1.67)	TCG	33.70	32.20	30.70	29.10	27.40	25.50	23.60	21.50
	SDT	70.70	79.90	89.10	98.30	107.50	116.80	126.10	135.40
	KW	1.41	1.63	1.86	2.11	2.38	2.70	3.07	3.51
40 (4.44)	TCG	37.10	35.50	33.80	32.10	30.20	28.20	26.10	23.90
	SDT	72.10	81.20	90.30	99.50	108.60	117.80	127.10	136.30
	KW	1.42	1.64	1.87	2.12	2.40	2.71	3.08	3.52
45 (7.22)	TCG	40.80	39.00	37.20	35.30	33.20	31.10	28.80	26.40
	SDT	73.70	82.60	91.60	100.70	109.80	118.90	128.10	137.20
	KW	1.43	1.65	1.88	2.13	2.41	2.73	3.10	3.53
50 (10.0)	TCG	44.80	42.80	40.80	38.70	36.50	34.10	31.70	29.00
	SDT	75.30	84.10	93.10	102.00	111.00	120.10	129.10	138.10
	KW	1.45	1.67	1.90	2.15	2.43	2.75	3.12	3.54
55 (12.78)	TCG	48.90	46.80	44.60	42.30	39.90	37.40	34.70	31.80
	SDT	77.00	85.70	94.60	103.40	112.30	121.30	130.20	139.10
	KW	1.47	1.70	1.93	2.18	2.46	2.77	3.14	3.56
<b>*SA642GKA</b>									
30 (- 1.11)	TCG	33.00	32.30	31.40	30.30	28.90	27.40	25.60	23.70
	SDT	69.80	79.20	88.70	98.10	107.40	116.70	125.90	135.10
	KW	1.61	1.84	2.12	2.45	2.84	3.29	3.81	4.40
35 (1.67)	TCG	36.40	35.70	34.70	33.40	32.00	30.30	28.40	26.30
	SDT	71.20	80.60	89.90	99.20	108.40	117.70	126.80	136.00
	KW	1.62	1.86	2.14	2.47	2.86	3.31	3.83	4.42
40 (4.44)	TCG	40.10	39.30	38.20	36.80	35.20	33.40	31.40	29.10
	SDT	72.70	81.90	91.20	100.40	109.60	118.70	127.80	136.90
	KW	1.63	1.87	2.15	2.49	2.88	3.33	3.85	4.45
45 (7.22)	TCG	44.10	43.10	41.90	40.40	38.60	36.70	34.50	32.00
	SDT	74.20	83.30	92.50	101.60	110.80	119.90	128.90	137.90
	KW	1.64	1.88	2.17	2.51	2.91	3.36	3.88	4.48
50 (10.0)	TCG	48.30	47.20	45.80	44.20	42.30	40.10	37.70	35.00
	SDT	75.80	84.80	93.90	103.00	112.00	121.00	130.00	138.90
	KW	1.65	1.90	2.19	2.54	2.94	3.39	3.92	4.51
55 (12.78)	TCG	52.80	51.50	50.00	48.10	46.00	43.70	41.10	38.20
	SDT	77.40	86.40	95.40	104.40	113.40	122.30	131.20	140.00
	KW	1.67	1.92	2.22	2.57	2.97	3.43	3.96	4.55
<b>*SA648GKA</b>									
30 (- 1.11)	TCG	40.10	38.00	35.90	33.80	31.50	29.20	26.70	24.20
	SDT	67.60	77.00	86.40	95.80	105.10	114.50	123.80	133.10
	KW	1.97	2.26	2.54	2.83	3.13	3.46	3.84	4.29
35 (1.67)	TCG	44.40	42.00	39.70	37.30	34.80	32.30	29.60	26.80
	SDT	68.90	78.20	87.50	96.80	106.10	115.30	124.60	133.80
	KW	1.90	2.22	2.53	2.83	3.14	3.48	3.87	4.30
40 (4.44)	TCG	49.10	46.40	43.80	41.10	38.40	35.60	32.70	29.60
	SDT	70.30	79.40	88.60	97.80	107.00	116.30	125.40	134.60
	KW	1.80	2.15	2.49	2.81	3.14	3.50	3.89	4.32
45 (7.22)	TCG	54.20	51.20	48.20	45.20	42.20	39.20	36.00	32.60
	SDT	71.70	80.70	89.80	99.00	108.10	117.30	126.40	135.40
	KW	1.66	2.05	2.41	2.77	3.13	3.50	3.90	4.34
50 (10.0)	TCG	59.80	56.40	53.00	49.70	46.40	43.00	39.40	35.70
	SDT	73.20	82.10	91.20	100.20	109.30	118.30	127.30	136.30
	KW	1.47	1.90	2.31	2.70	3.09	3.48	3.90	4.35
55 (12.78)	TCG	65.80	62.00	58.30	54.50	50.80	47.00	43.10	39.00
	SDT	74.80	83.60	92.60	101.50	110.50	119.40	128.40	137.30
	KW	1.24	1.72	2.17	2.60	3.02	3.44	3.88	4.35

See notes on pg. 14

# 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)
<b>*SA660GKA</b>									
<b>30</b> <b>(- 1.11)</b>	TCG	45.10	43.80	42.30	40.50	38.50	36.20	33.50	30.50
	SDT	69.00	78.40	87.70	97.10	106.40	115.60	124.80	134.00
	KW	2.22	2.52	2.83	3.17	3.56	4.00	4.53	5.15
<b>35</b> <b>(1.67)</b>	TCG	50.00	48.40	46.70	44.70	42.50	40.00	37.10	33.80
	SDT	70.40	79.70	89.00	98.20	107.40	116.60	125.80	134.90
	KW	2.21	2.52	2.85	3.19	3.58	4.03	4.55	5.16
<b>40</b> <b>(4.44)</b>	TCG	55.10	53.40	51.40	49.20	46.70	44.00	40.80	37.30
	SDT	71.90	81.10	90.20	99.40	108.50	117.60	126.70	135.70
	KW	2.21	2.53	2.86	3.21	3.61	4.05	4.57	5.18
<b>45</b> <b>(7.22)</b>	TCG	60.70	58.60	56.40	54.00	51.20	48.20	44.80	41.00
	SDT	73.50	82.50	91.60	100.70	109.70	118.70	127.70	136.70
	KW	2.20	2.53	2.87	3.23	3.63	4.08	4.60	5.20
<b>50</b> <b>(10.0)</b>	TCG	66.50	64.20	61.70	59.00	56.00	52.60	48.90	44.70
	SDT	75.10	84.00	93.00	102.00	111.00	119.90	128.80	137.60
	KW	2.19	2.53	2.89	3.26	3.66	4.11	4.63	5.22
<b>55</b> <b>(12.78)</b>	TCG	72.80	70.10	67.30	64.20	60.90	57.20	53.10	48.60
	SDT	76.80	85.70	94.50	103.40	112.30	121.10	129.90	138.60
	KW	2.18	2.54	2.90	3.28	3.69	4.15	4.66	5.25

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

**KW** - Outdoor Unit Kilowatts Only.

**SDT** - Saturated Temperature Leaving Compressor (° F/° C)

**SST** - Saturated Temperature Entering Compressor (° F)

**TCG** - Gross Cooling Capacity (1000 Btuh)

**ACCESSORY USAGE GUIDELINES**

ACCESSORY	REQUIRED FOR LOW- AMBIENT COOLING APPLICATIONS (Below 55°F / 12.8°C)‡	REQUIRED FOR LONG LINE APPLICATIONS*
Compressor Start Assist Capacitor and Relay	Yes	Yes
Crankcase Heater	Yes	Yes
Evaporator Freeze Thermostat	Yes	No
Low- ambient Pressure Switch	Yes	No
Support Feet	Recommended	No
Thermal Expansion Valve (TXV) Hard Shutoff	Yes	Yes†
Winter Start Control	Yes	No

‡ Non- communicating thermostat required.

\* Refer to the Long Line Application Guideline document

† TXV required beyond 20 ft. (6.1 m) vertical separation or 50 ft. (15.2 m) total length.

**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
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
NASA014SC	Hard Start Kit (Capacitor & Relay)	ALL
NASA401LA	Low Ambient Kit (Pressure Switch), R- 410A	ALL
NASA001SF	Support Feet, 4" (102mm) tall	ALL
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
TSTAT0201CW	Observer Self Configuring Communication Wall Control	ALL

\*Some models may be factory installed.