



CCA7
SXT+

Product Specifications

HIGH EFFICIENCY 17 SEER TWO-STAGE AIR CONDITIONER WITH OBSERVER™ COMMUNICATING CONTROL SYSTEM

2 THRU 5 TONS SPLIT SYSTEM

208/230 Volt, 1-phase, 60 Hz

REFRIGERATION CIRCUIT

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

PERFORMANCE

- Self-configuring installation capabilities with Observer Communicating Wall Control
- Outdoor temperature sensor factory installed
- Ball Bearing PSC fan motors on all models
- High performance compressor sound shield standard
- Isolation compressor grommets

EASY TO INSTALL AND SERVICE

- Text based diagnostics with Observer Communicating Wall Control
- Only 2 control wires required from communicating indoor unit to condenser
- Easy access service valves on all models
- Innovative control box design
- Only two screws to access control panel
- Factory charged with R-410A refrigerant

BUILT TO LAST

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

WARRANTY*

- 10 year No Hassle Replacement™ limited warranty
- 5 year parts limited warranty (including compressor and coil)
 - With timely registration, an additional 5 year parts limited warranty (including compressor and coil)

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



TSTAT0201CW
(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.

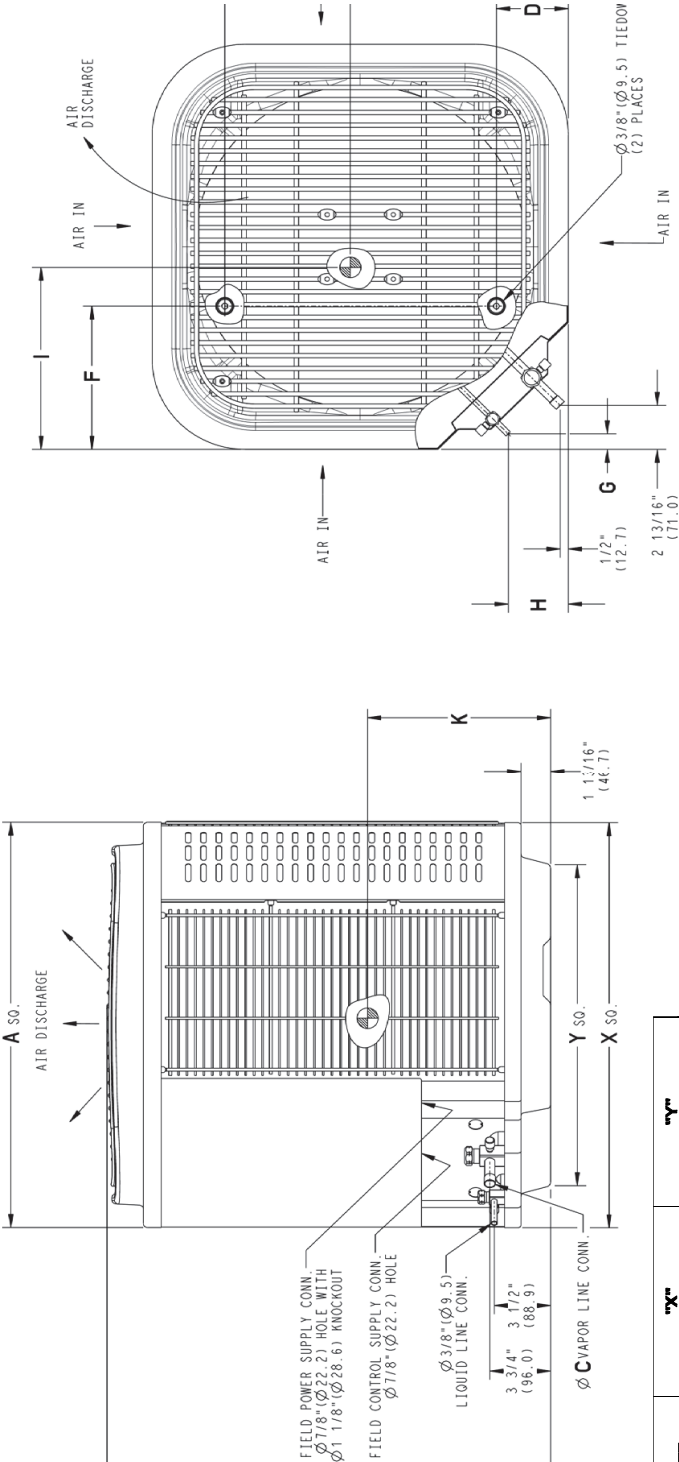
Model Number	Size (tons)	Nominal Btu/hr	Min. Circuit Ampacity	Max. Fuse or Breaker	Operating Dimensions height x width x depth in. (mm)	Ship / Operating Weight lbs. (kg)
CCA724GKA	2	24,000	14.5	20	35-9/16x31-3/16x31-3/16 (903x792x792)	222/183 (101/83)
CCA736GKA	3	36,000	19.8	35	35-9/16x31-3/16x31-3/16 (930x792x792)	256/217 (116/98)
CCA748GKA	4	48,000	27.8	40	40-1/4x35x35 (1023x889x889)	326/283 (148/128)
CCA760GKB	5	60,000	37.3	60	40-1/4x35x35 (1023x889x889)	327/284 (148/129)

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:	C	C	A	7	24	G	K	A	2	0	0
C = Keeprite Mainline		KEY CHARACTERISTIC	TYPE	NOMINAL EFFICIENCY	NOMINAL CAPACITY	FEATURES	VOLTAGE	Sales Code	Engineering Revision	Extra Digit	Extra Digit
BRANDING											
C = Communicating											
A = Air Conditioner											
H = Heat Pump											
6 = 16 SEER											
7 = 17 SEER											
8 = 18 SEER											
9 = 19 SEER											
24 = 24,000 BTUH = 2 tons											
36 = 36,000 BTUH = 3 tons											
48 = 48,000 BTUH = 4 tons											
60 = 60,000 BTUH = 5 tons											
G = Coil Guard Grille											
K = 208/230-1-60											
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		PRODUCT GROUP	KIT USAGE	MAJOR SERIES	REFRIGERANT				
A = Accessory									
S = Split System (AC & HP)									
A = Original									
B = 2nd Generation									
0 = Generic or Not Applicable									
2 = R-22									
4 = R-410A									
Product Identifier Number									
Package Quantity									
Type of Kit (Example: CH = Crankcase Heater)									

SIZE	SERIES	ELECTRICAL CHARACTERISTICS		A		B		C		D		E		F		G		H		I		J		K		OPERATING WEIGHT		SHIPPING LENGTH / WIDTH (Sq.)		SHIPPING HEIGHT														
		INCH	MM	INCH	MM	INCH	MM	INCH	MM	INCH	MM	INCH	MM	INCH	MM	INCH	MM	INCH	MM	INCH	MM	INCH	MM	Lbs	Kg	Lbs	Kg	INCH	MM	INCH	MM													
24	2	Y	N	N	N	31	3/16	792.5	35	1/2	902.0	34	15.1	6	9/16	166.1	24	11/16	626.3	9	1/8	231.3	5/16	7.9	3	76.2	15	7/8	403.2	16	1/2	419.1	17	3/4	450.9	183	83.0	222	100.7	33	5/16	846.8	40	1015.8
36	2	Y	N	N	N	31	3/16	792.5	35	1/2	902.0	78	22.2	6	9/16	166.1	24	11/16	626.3	9	1/8	231.3	5/16	7.9	3	76.2	16	406.4	15	1/2	393.7	17	1/2	444.5	217	98.4	256	116.1	33	5/16	846.8	40	1015.8	
48	2	Y	N	N	N	35	889.0	40	3/8	1026.3	78	22.2	6	9/16	166.1	28	7/16	722.8	9	1/8	231.3	5/16	7.9	3	76.2	17	1/4	438.2	17	1/4	438.2	18	1/2	469.9	283	128.4	326	147.9	37	1/8	943.1	45	1/4	1148.1
60	1	Y	N	N	N	35	889.0	40	3/8	1026.3	78	22.2	6	9/16	166.1	28	7/16	722.8	9	1/8	231.3	5/16	7.9	3	76.2	16	1/2	419.1	16	1/4	412.8	17	1/2	444.5	284	128.8	327	148.3	37	1/8	943.1	45	1/4	1148.1

- NOTES:
- 1. ALLOW 30" (762.0) CLEARANCE TO SERVICE SIDE OF UNIT, 48" (1219.2) ABOVE UNIT, 6" (152.4) ON ONE SIDE, 12" (304.8) ON REMAINING SIDE, AND 24" (609.6) BETWEEN UNITS FOR PROPER AIRFLOW.
 - 2. MINIMUM OUTDOOR OPERATING AMBIENT IN COOLING MODE IS 55°F (13°C), MAX. 125°F (52°C).
 - 3. CENTER OF GRAVITY
 - 4. SERIES DESIGNATION IS THE 10TH POSITION OF THE UNIT MODEL NUMBER.



NOTE: ALL DIMENSIONS IN INCH (MM)

U.S. EXPORT CLASSIFICATION: EAR99

Notes Draw 826164-2 original R

PHYSICAL DATA

Model Size	24	36	48	60
Nominal Cooling Capacity (BTU/hr)	24,000	36,000	48,000	60,000
Sound Rating**, High Stage (dBA)	72	71	72	72
Low Stage (dBA)	71	70	70	72
PSC Fan Motor HP	1/12	1/10	1/4	1/4
Fan RPM	800	825	825	825
Fan CFM	2481	3068	4700	4700
Coil Face Area ft ² (m ²)	19.58	19.38	25.12	25.12
Coil Rows - fins per inch	1-25	2-20	2-20	2-20
Low Pressure Switch	Open Pressure Close Pressure	50 ± 7 PSIG 95 ± 7 PSIG	50 ± 7 PSIG 95 ± 7 PSIG	50 ± 7 PSIG 95 ± 7 PSIG
Hi Pressure Switch	Open Pressure Close Pressure	670 ± 10 PSIG 470 ± 25 PSIG	670 ± 10 PSIG 470 ± 25 PSIG	670 ± 10 PSIG 470 ± 25 PSIG
Liquid Line Connection Size in. (mm)	3/8 (10)	3/8 (10)	3/8 (10)	3/8 (10)
Vapor Line Connection Size in. (mm)	3/4 (19)	7/8 (22)	7/8 (22)	7/8 (22)
Recommended Line Set Liquid Tube Diameter in. (mm)	3/8 (10)	3/8 (10)	3/8 (10)	3/8 (10)
Recommended Line Set Vapor Tube Diameter in. (mm)*	3/4 (19)*	7/8 (22)*	1-1/8 (29)*	1-1/8 (29)*
* Recommended Vapor Tube Line size is for standard installations. These recommendations may not apply to "Long Line" installations. When the total equivalent line length exceeds 80 feet (24.4m) or there is more than 20 feet (6.1m) vertical separation between indoor and outdoor units, consult the Long Line Application Guideline document before purchasing/ installing line sets.				
Factory Charge R-410A lbs. (kg)	6.64 (3.01)	9.26(4.20)	12.94 (5.87)	12.70 (5.76)
Required Subcooling ° F (° C)	10 (5.6)	14 (7.8)	13 (7.2)	14 (7.8)

ELECTRICAL DATA (208/230-1-60, voltage range 197V - 253V)

Model Size	24GKA2	36GKA2	48GKA2	60GKB1
Minimum Circuit Ampacity - MCA (amps)	14.5	19.8	27.8	37.3
Maximum OverCurrent Protective device - MOCP (amps)	20	35	40	60
Compressor RLA (Rated Load Amps) LRA (Locked Rotor Amps)	11.1 58.3	15.3 83.0	21.2 104.0	28.8 152.9
Fan Motor FLA (Full Load Amps)	0.6	0.7	1.3	1.3

**Sound Rating tested in accordance with AHRI Standard 270-95 (not listed with AHRI).

R-410A COOLING CAPACITY LOSS FOR VARIOUS LINE LENGTHS & TUBE DIAMETERS

Unit Nominal Size (Btuh)	Maximum Liquid Line Diameter (OD) in.(mm)	Vapor Line Diameters (OD) in. (mm)	Cooling Capacity Loss (%) at Total Equivalent Line Length, feet (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 (46.0-50.3)	176-200 (53.6-60.0)	201-225 (61.3-68.6)	226-250 (68.9-76.2)
24 2-Stage AC	3/8 (10)	5/8 (16)	0	1	1	2	3	3	4	4	5
		3/4 (19)	0	0	0	0	1	1	1	1	1
36 2-Stage AC		5/8 (16)	1	2	4	5	6	7	9	10	11
		3/4 (19)	0	0	1	1	2	2	3	3	4
		7/8 (22)	0	0	0	0	1	1	1	1	2
48 2-Stage AC		3/4 (19)	1	2	2	3	4	5	6	7	7
		7/8 (22)	0	1	1	2	2	2	3	3	3
		1-1/8 (29)	0	0	-	-	-	-	-	-	-
60 2-Stage AC		3/4 (19)	1	2	4	5	6	7	9	10	10
		7/8 (22)	0	1	2	2	2	3	4	4	5
		1-1/8 (29)	0	0	0	0	1	1	1	1	1

Applications in shaded area may be long line and may have height restrictions. See the AC & HP R410A Split System Long Line Applications Guideline.

- Applications in this area are not recommended due to insufficient oil return.

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 Keeprite database at:

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

Or scan this QR code:



COOLING PERFORMANCE

For complete ratings information, use the AHRI website directory search: www.AHRIdirectory.org.

New ratings may be listed online before Specification Sheets are updated.

Unit Size	Indoor Model (*Tested Model)	Furnace Model	AHRI STANDARD RATINGS					
			COOLING 95°F (35°C)					
			Capacity		SEER	EER	ID CFM	
			High	Low			High	Low
CCA724GKA	*EN(A,D)4X31*17**	*8MV*0901716**	24000	21600	17.0	13.0	835	670
CCA736GKA	*EN(A,D,W)4X48*21**	*8MV*0901716**	36000	29400	17.0	13.0	1005	835
CCA748GKA	*EN(A,D)4X61*24**	*8MV*1352422**	48000	40000	17.0	13.0	1355	1010
CCA760GKB	EA*4X61L24A* + TDR		56500	44500	14.5	12.0	1625	1300

* AHRI = Air Conditioning, Heating & Refrigeration Institute

EERA — Energy Efficiency Ratio - 'A' conditions - 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

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.

SIZE 24 EXPANDED DATA

		High Stage 24 Size Outdoor With EN(A,D)4X31*17***8MV*0901716** Indoor Cooling																Outdoor Ambient Temperature - Degrees F, Dry Bulb																							
		75								85								95								105								115							
		Entering Indoor Temperature - Degrees F, Wet Bulb																																							
CFM		57	62	63††	67	72	57	62	63††	67	72	57	62	63††	67	72	57	62	63††	67	72	57	62	63††	67	72	57	62	63††	67	72										
600	MBH†	24.35	25.97	26.50	28.68	31.66	21.95	23.22	23.69	25.64	28.31	19.59	20.53	20.94	22.68	25.04	17.29	17.94	18.29	19.82	21.89	15.06	15.45	15.74	17.07	18.87	1.00	0.82	0.67	0.64	0.49										
	S/T‡	1.00	0.82	0.67	0.64	0.49	1.00	0.83	0.68	0.65	0.49	1.00	0.85	0.68	0.66	0.49	1.00	0.86	0.69	0.67	0.49	1.00	0.88	0.70	0.68	0.50	6.90	6.95	6.96	7.02	7.09										
	AMPS*	25.9	26.1	26.2	26.4	26.7	30.1	30.3	30.4	30.6	31.0	34.7	34.9	35.0	35.3	35.7	39.8	40.0	40.1	40.4	40.8	45.4	45.5	45.6	45.9	46.4	25.9	26.1	26.2	26.4	26.7										
	HI PR	119	126	128	139	152	122	128	130	141	154	125	130	132	143	157	128	133	135	145	159	132	135	137	148	162	119	126	128	139	152										
	LO PR	25.14	26.46	26.98	29.19	32.19	22.64	23.65	24.11	26.08	28.75	20.19	20.90	21.29	23.05	25.41	17.81	18.25	18.57	20.12	22.20	15.50	15.71	15.98	17.32	19.12	1.00	0.85	0.68	0.66	0.49										
650	MBH†	1.00	0.85	0.68	0.66	0.49	1.00	0.86	0.69	0.66	0.49	1.00	0.87	0.70	0.67	0.50	1.00	0.89	0.71	0.68	0.50	1.00	0.91	0.72	0.69	0.51	6.96	7.00	7.01	7.07	7.14										
	S/T‡	1.00	0.85	0.68	0.66	0.49	1.00	0.86	0.69	0.66	0.49	1.00	0.87	0.70	0.67	0.50	1.00	0.89	0.71	0.68	0.50	1.00	0.91	0.72	0.69	0.51	6.96	7.00	7.01	7.07	7.14										
	AMPS*	26.0	26.2	26.2	26.5	26.8	30.2	30.4	30.4	30.7	31.0	34.9	35.0	35.1	35.3	35.7	39.9	40.0	40.1	40.4	40.9	45.5	45.6	45.7	46.0	46.5	26.0	26.2	26.2	26.5	26.8										
	HI PR	123	129	131	141	155	125	131	133	143	157	129	133	135	145	159	132	135	137	148	162	136	138	139	150	164	123	129	131	141	155										
	LO PR	25.85	26.90	27.40	29.63	32.64	23.27	24.03	24.46	26.45	29.13	20.74	21.23	21.59	23.35	25.73	18.28	18.53	18.83	20.38	22.46	15.90	15.97	16.18	17.52	19.33	1.00	0.87	0.70	0.67	0.50										
700	MBH†	1.00	0.87	0.70	0.67	0.50	1.00	0.88	0.70	0.68	0.50	1.00	0.90	0.71	0.69	0.51	1.00	0.92	0.73	0.70	0.51	1.00	0.99	0.74	0.71	0.52	7.01	7.04	7.06	7.12	7.19										
	S/T‡	1.00	0.87	0.70	0.67	0.50	1.00	0.88	0.70	0.68	0.50	1.00	0.90	0.71	0.69	0.51	1.00	0.92	0.73	0.70	0.51	1.00	0.99	0.74	0.71	0.52	7.01	7.04	7.06	7.12	7.19										
	AMPS*	26.1	26.2	26.3	26.5	26.8	30.3	30.4	30.5	30.7	31.1	35.0	35.0	35.1	35.4	35.8	40.0	40.1	40.2	40.5	40.9	45.6	45.7	45.7	46.1	46.5	26.1	26.2	26.3	26.5	26.8										
	HI PR	126	131	133	143	157	129	133	135	145	159	132	135	137	147	161	136	137	139	150	164	139	140	141	152	166	126	131	133	143	157										
	LO PR	26.50	27.30	27.76	30.00	33.03	23.85	24.37	24.77	26.77	29.46	21.24	21.53	21.86	23.63	26.01	18.71	18.80	19.04	20.59	22.68	16.26	16.29	16.35	17.70	19.51	1.00	0.89	0.71	0.68	0.51										
750	MBH†	1.00	0.89	0.71	0.68	0.51	1.00	0.90	0.72	0.69	0.51	1.00	0.92	0.73	0.70	0.51	1.00	0.94	0.74	0.72	0.52	1.00	1.00	0.76	0.73	0.53	7.07	7.09	7.10	7.16	7.23										
	S/T‡	1.00	0.89	0.71	0.68	0.51	1.00	0.90	0.72	0.69	0.51	1.00	0.92	0.73	0.70	0.51	1.00	0.94	0.74	0.72	0.52	1.00	1.00	0.76	0.73	0.53	7.07	7.09	7.10	7.16	7.23										
	AMPS*	26.2	26.3	26.3	26.6	26.9	30.4	30.5	30.6	30.8	31.2	35.0	35.1	35.2	35.4	35.8	40.1	40.2	40.2	40.5	41.0	45.7	45.7	45.8	46.1	46.6	26.2	26.3	26.3	26.6	26.9										
	HI PR	129	133	135	145	159	132	135	137	147	161	135	137	138	149	163	139	139	141	151	165	143	143	143	154	168	129	133	135	145	159										
	LO PR	27.10	27.65	28.08	30.34	33.37	24.38	24.69	25.05	27.05	29.75	21.70	21.82	22.09	23.86	26.25	19.10	19.13	19.23	20.78	22.88	16.60	16.62	16.51	17.85	19.67	1.00	0.91	0.72	0.70	0.51										
800	MBH†	1.00	0.91	0.72	0.70	0.51	1.00	0.93	0.73	0.71	0.52	1.00	0.94	0.75	0.72	0.52	1.00	1.00	0.76	0.74	0.53	1.00	1.00	0.78	0.75	0.54	7.12	7.13	7.15	7.20	7.27										
	S/T‡	1.00	0.91	0.72	0.70	0.51	1.00	0.93	0.73	0.71	0.52	1.00	0.94	0.75	0.72	0.52	1.00	1.00	0.76	0.74	0.53	1.00	1.00	0.78	0.75	0.54	7.12	7.13	7.15	7.20	7.27										
	AMPS*	26.2	26.3	26.4	26.6	26.9	30.5	30.5	30.6	30.8	31.2	35.1	35.1	35.2	35.5	35.9	40.2	40.2	40.3	40.6	41.0	45.8	45.8	45.8	46.2	46.6	26.2	26.3	26.4	26.6	26.9										
	HI PR	132	135	136	147	161	135	137	138	149	163	138	139	140	151	165	142	142	142	153	167	145	146	144	155	169	132	135	136	147	161										
	LO PR	27.50	27.89	28.29	30.54	33.58	24.72	24.90	25.22	27.22	29.93	22.00	22.03	22.23	24.00	26.39	19.36	19.39	19.35	20.90	23.00	16.81	16.84	16.61	17.95	19.77	1.00	0.93	0.73	0.71	0.52										
835	MBH†	1.00	0.93	0.73	0.71	0.52	1.00	0.94	0.75	0.72	0.52	1.00	1.00	0.76	0.73	0.53	1.00	1.00	0.77	0.75	0.54	1.00	1.00	0.79	0.77	0.54	7.15	7.16	7.18	7.23	7.30										
	S/T‡	1.00	0.93	0.73	0.71	0.52	1.00	0.94	0.75	0.72	0.52	1.00	1.00	0.76	0.73	0.53	1.00	1.00	0.77	0.75	0.54	1.00	1.00	0.79	0.77	0.54	7.15	7.16	7.18	7.23	7.30										
	AMPS*	26.3	26.3	26.4	26.6	26.9	30.5	30.6	30.6	30.9	31.2	35.2	35.2	35.2	35.5	35.9	40.3	40.3	40.3	40.6	41.1	45.9	45.9	45.9	46.2	46.7	26.3	26.3	26.4	26.6	26.9										
	HI PR	134	136	137	148	162	137	138	139	150	164	140	140	141	152	166	144	144	144	154	168	147	147	147	156	170	134	136	137	148	162										
	LO PR	28.17	28.32	28.63	30.88	33.93	25.31	25.34	25.50	27.51	30.22	22.51	22.55	22.47	24.24	26.64	19.79	19.82	19.55	21.10	23.20	17.18	17.20	16.77	18.11	19.92	1.00	0.95	0.75	0.73	0.53										
900	MBH†	1.00	0.95	0.75	0.73	0.53	1.00	1.00	0.77	0.74	0.53	1.00	1.00	0.78	0.76	0.54	1.00	1.00	0.80	0.77	0.55	1.00	1.00	0.81	0.79	0.56	7.22	7.22	7.23	7.28	7.35										
	S/T‡	1.00	0.95	0.75	0.73	0.53	1.00	1.00	0.77	0.74	0.53	1.00	1.00	0.78	0.76	0.54	1.00	1.00	0.80	0.77	0.55	1.00	1.00	0.81	0.79	0.56	7.22	7.22	7.23	7.28	7.35										
	AMPS*	26.4	26.4	26.4	26.7	27.0	30.6	30.6	30.7	30.9	31.3	35.3	35.3	35.3	35.6	36.0	40.4	40.4	40.3	40.7	41.1	46.0	46.0	45.9	46.2	46.7	26.4	26.4	26.4	26.7	27.0										
	HI PR	138	138	139	150	164	140	141	141	152	166	144	144	144	154	167	147	147	147	156	169	151	151	147	158	171	138	138	139	150	164										
	LO PR	29.00	29.15	29.46	31.71	34.76	26.18	26.21	26.36	28.37	31.38	23.38	23.41	23.56	25.57	28.58	20.88	20.91	20.76	22.81	25.82	18.18	18.21	17.96	19.29	21.30	1.00	0.97	0.77	0.75	0.55										
† Total capacities are net (ID blower heat subtracted) system capacities based on 25' line set.																																									
‡ If additional tubing length and/or indoor unit is located above outdoor unit, a slight variation in capacity may occur.																																									
* System amps are total of indoor and outdoor amps																																									
† S/T are based on 80 F db entering air at the indoor coil. For sensible capacities at other than 80 F db, deduct 835 Btuh per 1000 cfm of indoor coil air from MBHxS/T for each degree below 80 F, or add 835 Btuh per 1000 cfm of indoor coil air from MBHxS/T for each degree above 80 F																																									
‡ At TVA rating indoor condition (75 F db/ 63 F wb). All other indoor air temperatures are at 80 F db																																									

SIZE 24 EXPANDED DATA

Low Stage 24 Size Outdoor With EN(A,D)4X31*17***8MV*0901716** Indoor Cooling																					
Outdoor Ambient Temperature - Degrees F, Dry Bulb																					
		75				85				95				105				115			
CFM		57	62	63††	67	72	57	62	63††	67	72	57	62	63††	67	72	57	62	63††	67	72
	MBH†	17.62	18.73	19.10	20.70	22.95	16.16	17.00	17.34	18.79	20.84	14.68	15.27	15.56	16.89	18.74	13.20	13.57	13.83	15.02	16.71
	S/T†	1.00	0.84	0.68	0.65	0.49	1.00	0.83	0.67	0.64	0.48	1.00	0.82	0.66	0.63	0.47	1.00	0.81	0.65	0.62	0.46
	AMPS*	4.57	4.53	4.52	4.45	4.35	5.44	5.40	5.39	5.31	5.21	6.45	6.42	6.41	6.33	6.24	7.63	7.61	7.60	7.54	7.46
	HI PR	248	249	249	251	254	288	289	290	292	295	333	334	334	337	340	383	383	383	386	389
	LO PR	122	129	131	141	155	125	131	133	143	157	129	133	135	146	160	133	136	138	148	162
500	MBH†	18.38	19.20	19.56	21.19	23.47	16.84	17.41	17.73	19.21	21.29	15.28	15.63	15.90	17.25	19.13	13.74	13.90	14.11	15.33	17.03
	S/T†	1.00	0.87	0.70	0.67	0.50	1.00	0.86	0.69	0.67	0.49	1.00	0.86	0.68	0.66	0.48	1.00	0.85	0.67	0.65	0.47
	AMPS*	4.56	4.53	4.52	4.45	4.35	5.43	5.40	5.39	5.31	5.21	6.44	6.42	6.41	6.34	6.24	7.62	7.62	7.61	7.55	7.47
	HI PR	249	250	250	252	254	289	290	291	292	295	334	335	335	337	340	383	384	384	386	390
	LO PR	127	132	134	144	158	130	134	136	146	160	134	136	138	149	163	138	139	140	151	165
550	MBH†	19.06	19.60	19.94	21.60	23.90	17.44	17.77	18.06	19.57	21.66	15.81	15.96	16.18	17.55	19.44	14.21	14.23	14.34	15.58	17.29
	S/T†	1.00	0.90	0.72	0.69	0.51	1.00	0.90	0.71	0.69	0.50	1.00	0.89	0.70	0.68	0.49	1.00	0.90	0.72	0.69	0.49
	AMPS*	4.56	4.54	4.53	4.45	4.35	5.42	5.41	5.40	5.32	5.22	6.44	6.43	6.42	6.35	6.25	7.62	7.62	7.63	7.56	7.48
	HI PR	249	250	250	252	255	290	291	291	293	296	335	335	336	338	341	384	384	385	387	390
	LO PR	131	135	136	147	161	134	137	138	149	163	138	139	140	151	166	142	142	143	154	168
600	MBH†	19.66	19.96	20.26	21.94	24.26	17.98	18.11	18.33	19.86	21.96	16.28	16.31	16.41	17.80	19.70	14.62	14.65	14.54	15.79	17.50
	S/T†	1.00	0.93	0.74	0.71	0.52	1.00	0.93	0.73	0.71	0.51	1.00	0.90	0.73	0.70	0.50	1.00	0.90	0.72	0.69	0.49
	AMPS*	4.56	4.54	4.54	4.46	4.36	5.42	5.41	5.41	5.33	5.23	6.43	6.43	6.44	6.36	6.26	7.63	7.63	7.64	7.57	7.50
	HI PR	250	250	251	253	255	291	291	291	293	296	336	336	336	338	341	385	385	385	387	391
	LO PR	135	137	139	149	164	138	139	140	151	166	142	142	142	153	168	146	146	145	156	170
650	MBH†	20.20	20.31	20.54	22.24	24.57	18.46	18.49	18.58	20.11	22.22	16.71	16.74	16.62	18.01	19.91	15.00	15.02	14.72	15.97	17.68
	S/T†	1.00	0.96	0.76	0.74	0.53	1.00	0.90	0.76	0.73	0.53	1.00	0.90	0.75	0.72	0.52	1.00	0.90	0.74	0.72	0.51
	AMPS*	4.55	4.55	4.55	4.47	4.37	5.42	5.42	5.42	5.34	5.24	6.44	6.44	6.45	6.37	6.28	7.64	7.63	7.66	7.59	7.51
	HI PR	251	251	251	253	255	291	292	292	294	297	337	337	337	339	342	386	386	385	388	391
	LO PR	139	140	140	151	166	142	142	142	153	168	146	146	144	155	170	149	150	146	158	172
670	MBH†	20.41	20.46	20.64	22.34	24.67	18.64	18.67	18.66	20.20	22.31	16.87	16.90	16.69	18.09	19.99	15.14	15.16	14.78	16.04	17.75
	S/T†	1.00	1.00	0.77	0.74	0.54	1.00	0.90	0.76	0.74	0.53	1.00	0.90	0.76	0.73	0.52	1.00	0.90	0.75	0.73	0.51
	AMPS*	4.55	4.55	4.55	4.47	4.37	5.42	5.42	5.42	5.34	5.24	6.44	6.44	6.46	6.38	6.28	7.64	7.64	7.67	7.60	7.52
	HI PR	251	251	251	253	256	292	292	292	294	297	337	337	337	339	342	386	386	386	388	392
	LO PR	140	141	141	152	166	143	144	143	154	168	147	147	145	156	170	151	151	147	158	172
700	MBH†	20.70	20.73	20.79	22.49	24.82	18.90	18.93	18.79	20.33	22.44	17.10	17.13	16.80	18.20	20.10	15.34	15.36	14.87	16.13	17.84
	S/T†	1.00	1.00	0.78	0.76	0.55	1.00	0.90	0.78	0.75	0.54	1.00	0.90	0.77	0.75	0.53	1.00	0.90	0.76	0.74	0.52
	AMPS*	4.56	4.55	4.56	4.48	4.38	5.42	5.42	5.43	5.35	5.25	6.44	6.44	6.46	6.39	6.29	7.64	7.64	7.68	7.61	7.53
	HI PR	251	251	251	253	256	292	292	292	294	297	337	337	337	339	342	386	387	386	388	392
	LO PR	142	142	142	153	167	145	146	144	155	169	149	149	146	157	171	153	153	148	159	173

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

SIZE 36 EXPANDED DATA

High Stage 36 Outdoor With EN(A,D,W)4X48*21**+8MV*0901716** Indoor Cooling																																																																																									
Outdoor Ambient Temperature - Degrees F, Dry Bulb																																																																																									
75																		85																		95																		105																		115																	
Entering Indoor Temperature - Degrees F, Wet Bulb																																																																																									
CFM	57	62	63††	67	72	72	57	62	63††	67	72	57	62	63††	67	72	57	62	63††	67	72	57	62	63††	67	72	57	62	63††	67	72	57	62	63††	67	72	57	62	63††	67	72																																																
900	MBH†	35.84	38.02	38.77	41.84	46.07	33.31	35.06	35.74	38.59	42.48	30.78	32.11	32.71	35.31	38.88	28.23	29.14	29.66	32.02	35.25	25.63	26.15	26.58	28.69	31.59	1.00	0.83	0.67	0.65	0.49	1.00	0.85	0.69	0.66	0.49	1.00	0.87	0.70	0.67	0.50	1.00	0.90	0.72	0.69	0.51	1.00	0.93	0.74	0.71	0.52																																						
	S/T†	9.90	9.98	10.01	10.14	10.32	10.76	10.83	10.86	10.96	11.11	11.76	11.81	11.84	11.93	12.06	12.89	12.93	12.95	13.04	13.16	14.17	14.18	14.20	14.28	14.40	2.69	2.71	2.72	2.76	2.80	3.11	3.14	3.15	3.18	3.23	3.57	3.60	3.61	3.65	3.70	4.08	4.10	4.11	4.16	4.21	4.64	4.65	4.66	4.70	4.76																																						
	HI PR	118	125	127	137	150	121	127	129	139	153	124	129	131	141	155	128	132	134	144	158	132	135	136	147	161	1.00	0.85	0.69	0.66	0.49	1.00	0.87	0.70	0.67	0.51	1.00	0.90	0.72	0.69	0.51	1.00	0.93	0.74	0.71	0.52																																											
	LO PR	36.91	38.68	39.40	42.51	46.76	34.29	35.66	36.30	39.17	43.10	31.67	32.63	33.20	35.82	39.41	29.01	29.60	30.07	32.44	35.69	26.31	26.56	26.93	29.04	31.95	1.00	0.85	0.69	0.66	0.49	1.00	0.87	0.70	0.67	0.51	1.00	0.90	0.72	0.69	0.51	1.00	0.93	0.74	0.71	0.52																																											
	AMPS*	10.00	10.07	10.10	10.23	10.41	10.86	10.92	10.94	11.05	11.20	11.86	11.89	11.91	12.01	12.14	12.98	13.01	13.02	13.11	13.24	14.24	14.26	14.27	14.36	14.47	2.70	2.72	2.73	2.76	2.81	3.13	3.15	3.15	3.19	3.24	3.59	3.61	3.62	3.66	3.71	4.10	4.11	4.12	4.16	4.22	4.66	4.66	4.67	4.71	4.77																																						
975	MBH†	122	127	129	139	153	125	129	131	141	155	128	132	133	144	157	132	134	136	146	160	136	137	138	149	163	1.00	0.86	0.69	0.67	0.50	1.00	0.88	0.71	0.68	0.50	1.00	0.90	0.72	0.70	0.51	1.00	0.93	0.74	0.71	0.52	1.00	0.97	0.76	0.74	0.54																																						
	S/T†	10.04	10.11	10.14	10.27	10.45	10.90	10.95	10.97	11.08	11.23	11.89	11.92	11.94	12.04	12.17	13.02	13.04	13.05	13.14	13.27	14.28	14.29	14.30	14.38	14.50	2.71	2.73	2.73	2.77	2.81	3.13	3.15	3.16	3.19	3.24	3.60	3.61	3.62	3.66	3.71	4.11	4.12	4.12	4.17	4.22	4.66	4.67	4.67	4.72	4.77																																						
	HI PR	123	128	130	140	154	126	130	132	142	156	129	132	134	144	158	133	135	136	147	161	137	138	139	150	164	1.00	0.92	0.73	0.70	0.52	1.00	0.94	0.74	0.72	0.52	1.00	0.96	0.76	0.74	0.53	1.00	1.00	0.79	0.76	0.55	1.00	1.00	0.82	0.79	0.56																																						
	LO PR	39.58	40.28	40.84	44.00	48.33	36.72	37.11	37.56	40.46	44.46	33.84	33.98	34.29	36.93	40.57	30.92	30.97	31.00	33.39	36.66	27.97	28.01	27.69	29.82	32.73	1.00	0.92	0.73	0.70	0.52	1.00	0.94	0.74	0.72	0.52	1.00	0.96	0.76	0.74	0.53	1.00	1.00	0.79	0.76	0.55	1.00	1.00	0.82	0.79	0.56																																						
	AMPS*	10.30	10.33	10.35	10.48	10.67	11.14	11.15	11.17	11.28	11.44	12.12	12.12	12.13	12.23	12.37	13.23	13.24	13.23	13.33	13.45	14.49	14.49	14.47	14.56	14.68	2.73	2.74	2.75	2.78	2.83	3.16	3.17	3.17	3.21	3.26	3.63	3.63	3.64	3.68	3.73	4.14	4.14	4.14	4.18	4.24	4.69	4.70	4.69	4.73	4.79																																						
1200	MBH†	131	133	135	145	159	134	135	136	147	161	137	138	138	149	163	141	141	140	151	165	145	145	143	154	168	1.00	0.96	0.76	0.73	0.53	1.00	0.96	0.76	0.73	0.53	1.00	0.96	0.76	0.73	0.53	1.00	1.00	0.82	0.79	0.56	1.00	1.00	0.82	0.79	0.56																																						
	S/T†	10.49	10.49	10.50	10.64	10.83	11.31	11.31	11.31	11.43	11.59	12.28	12.28	12.27	12.37	12.51	13.39	13.39	13.37	13.46	13.59	14.64	14.64	14.60	14.69	14.81	2.75	2.75	2.76	2.79	2.84	3.18	3.18	3.18	3.22	3.27	3.65	3.65	3.65	3.69	3.74	4.16	4.16	4.15	4.19	4.25	4.72	4.72	4.70	4.74	4.80																																						
	HI PR	136	137	137	148	161	139	139	139	149	163	142	142	141	151	165	146	146	143	154	168	150	150	145	156	170	1.00	0.96	0.76	0.73	0.53	1.00	0.96	0.76	0.73	0.53	1.00	0.96	0.76	0.73	0.53	1.00	1.00	0.82	0.79	0.56	1.00	1.00	0.82	0.79	0.56																																						
	LO PR	41.01	41.19	41.54	44.70	49.07	38.01	38.05	38.18	41.09	45.10	34.98	35.03	34.82	37.47	41.11	31.93	31.97	31.44	33.83	37.11	28.84	28.88	28.06	30.19	33.08	1.00	0.96	0.76	0.73	0.53	1.00	0.96	0.76	0.73	0.53	1.00	0.96	0.76	0.73	0.53	1.00	1.00	0.82	0.79	0.56	1.00	1.00	0.82	0.79	0.56																																						
	AMPS*	10.49	10.49	10.50	10.64	10.83	11.31	11.31	11.31	11.43	11.59	12.28	12.28	12.27	12.37	12.51	13.39	13.39	13.37	13.46	13.59	14.64	14.64	14.60	14.69	14.81	2.75	2.75	2.76	2.79	2.84	3.18	3.18	3.18	3.22	3.27	3.65	3.65	3.65	3.69	3.74	4.16	4.16	4.15	4.19	4.25	4.72	4.72	4.70	4.74	4.80																																						
1350	MBH†	136	137	137	148	161	139	139	139	149	163	142	142	141	151	165	146	146	143	154	168	150	150	145	156	170	1.00	0.96	0.76	0.73	0.53	1.00	0.96	0.76	0.73	0.53	1.00	0.96	0.76	0.73	0.53	1.00	1.00	0.82	0.79	0.56	1.00	1.00	0.82	0.79	0.56																																						
	S/T†	10.49	10.49	10.50	10.64	10.83	11.31	11.31	11.31	11.43	11.59	12.28	12.28	12.27	12.37	12.51	13.39	13.39	13.37	13.46	13.59	14.64	14.64	14.60	14.69	14.81	2.75	2.75	2.76	2.79	2.84	3.18	3.18	3.18	3.22	3.27	3.65	3.65	3.65	3.69	3.74	4.16	4.16	4.15	4.19	4.25	4.72	4.72	4.70	4.74	4.80																																						
	HI PR	136	137	137	148	161	139	139	139	149	163	142	142	141	151	165	146	146	143	154	168	150	150	145	156	170	1.00	0.96	0.76	0.73	0.53	1.00	0.96	0.76	0.73	0.53	1.00	0.96	0.76	0.73	0.53	1.00	1.00	0.82	0.79	0.56	1.00	1.00	0.82	0.79	0.56																																						
	LO PR	41.01	41.19	41.54	44.70	49.07	38.01	38.05	38.18	41.09	45.10	34.98	35.03	34.82	37.47	41.11	31.93	31.97	31.44	33.83	37.11	28.84	28.88	28.06	30.19	33.08	1.00	0.96	0.76	0.73	0.53	1.00	0.96	0.76	0.73	0.53	1.00	0.96	0.76	0.73	0.53	1.00	1.00	0.82	0.79	0.56	1.00	1.00	0.82	0.79	0.56																																						
	AMPS*	10.49	10.49	10.50	10.64	10.83	11.31	11.31	11.31	11.43	11.59	12.28	12.28	12.27	12.37	12.51	13.39	13.39	13.37	13.46	13.59	14.64	14.64	14.60	14.69	14.81	2.75	2.75	2.76	2.79	2.84	3.18	3.18	3.18	3.22	3.27	3.65	3.65	3.65	3.69	3.74	4.16	4.16	4.15	4.19	4.25	4.72	4.72	4.70	4.74	4.80																																						
† Total capacities are net (I.D blower heat subtracted) system capacities based on 25' line set. If additional tubing length and/or indoor unit is located above outdoor unit, a slight variation in capacity may occur.																																																																																									
* System amps are total of indoor and outdoor amps																																																																																									
‡ S/T are based on 80 F db entering air at the indoor coil. For sensible capacities at other than 80 F db, deduct 835 Btuh per 1000 cfm of indoor coil air from MBHxS/T for each degree below 80 F, or add 835 Btuh per 1000 cfm of indoor coil air from MBHxS/T for each degree above 80 F																																																																																									
†† At TVA rating indoor condition (75 F db/ 63 F wb). All other indoor air temperatures are at 80 F db																																																																																									

† Total capacities are net (I.D blower heat subtracted) system capacities based on 25' line set.
 If additional tubing length and/or indoor unit is located above outdoor unit, a slight variation in capacity may occur.

* System amps are total of indoor and outdoor amps

‡ S/T are based on 80 F db entering air at the indoor coil. For sensible capacities at other than 80 F db, deduct 835 Btuh per 1000 cfm of indoor coil air from MBHxS/T for each degree below 80 F, or add 835 Btuh per 1000 cfm of indoor coil air from MBHxS/T for each degree above 80 F

†† At TVA rating indoor condition (75 F db/ 63 F wb), All other indoor air temperatures are at 80 F db

SIZE 36 EXPANDED DATA

		Low Stage 36 Outdoor With EN(A,D,W)4X48*21**+8MV*0901716** Indoor Cooling															
		Outdoor Ambient Temperature - Degrees F, Dry Bulb								95							
		75								105							
		85								115							
		Entering Indoor Temperature - Degrees F, Wet Bulb															
CFM		57	62	63††	67	72	57	62	63††	67	72	57	62	63††	67	72	57
720	MBH†	26.16	27.22	27.75	30.15	33.42	24.56	25.33	25.81	28.03	31.06	22.93	23.44	23.86	25.90	28.71	21.26
	S/T†	1.00	0.88	0.70	0.67	0.50	1.00	0.86	0.69	0.66	0.49	1.00	0.84	0.67	0.65	0.47	1.00
	AMPS*	6.58	6.55	6.53	6.45	6.35	7.59	7.57	7.56	7.49	7.39	8.78	8.77	8.76	8.69	8.60	10.18
	HI PR	254	255	256	259	262	295	296	297	300	303	340	341	342	345	349	390
	LO PR	127	132	134	144	158	130	134	136	146	160	133	136	138	148	162	137
780	MBH†	26.97	27.71	28.20	30.62	33.92	25.30	25.78	26.21	28.44	31.51	23.60	23.85	24.21	26.27	29.09	21.87
	S/T†	1.00	0.90	0.72	0.69	0.51	1.00	0.89	0.70	0.68	0.50	1.00	0.87	0.69	0.66	0.48	1.00
	AMPS*	6.59	6.56	6.55	6.47	6.36	7.60	7.59	7.58	7.51	7.41	8.79	8.79	8.78	8.71	8.62	10.19
	HI PR	255	256	256	259	262	296	297	297	300	304	341	342	342	345	349	391
	LO PR	131	134	136	146	160	134	136	138	148	162	137	138	140	150	164	141
835	MBH†	27.64	28.12	28.57	30.99	34.32	25.91	26.16	26.54	28.78	31.86	24.16	24.23	24.49	26.56	29.39	22.37
	S/T†	1.00	0.93	0.73	0.71	0.52	1.00	0.91	0.72	0.69	0.50	1.00	0.89	0.70	0.68	0.49	1.00
	AMPS*	6.59	6.58	6.57	6.49	6.38	7.61	7.61	7.60	7.53	7.43	8.81	8.81	8.80	8.73	8.64	10.20
	HI PR	256	256	257	259	263	297	297	298	301	304	342	342	343	346	350	392
	LO PR	134	136	138	148	162	137	138	139	150	164	140	141	141	152	166	144
960	MBH†	28.98	29.01	29.25	31.69	35.05	27.13	27.17	27.14	29.39	32.49	25.27	25.30	25.03	27.09	29.94	23.35
	S/T†	1.00	1.00	0.77	0.74	0.54	1.00	1.00	0.76	0.73	0.52	1.00	1.00	0.74	0.72	0.51	1.00
	AMPS*	6.62	6.62	6.61	6.53	6.42	7.64	7.64	7.65	7.58	7.48	8.84	8.84	8.85	8.79	8.70	10.24
	HI PR	257	257	258	260	264	299	299	299	301	305	344	344	343	347	351	393
	LO PR	140	140	141	152	165	143	143	143	153	167	146	146	145	155	169	150
1080	MBH†	30.06	30.11	29.77	32.21	35.58	28.11	28.15	27.60	29.85	32.95	26.14	26.18	25.42	27.49	30.34	24.13
	S/T†	1.00	1.00	0.80	0.78	0.55	1.00	1.00	0.79	0.77	0.54	1.00	1.00	0.78	0.76	0.53	1.00
	AMPS*	6.65	6.64	6.66	6.58	6.46	7.68	7.68	7.70	7.63	7.53	8.88	8.88	8.91	8.84	8.75	10.28
	HI PR	259	259	258	261	264	300	300	299	302	306	345	345	344	347	351	395
	LO PR	145	146	144	154	168	148	148	145	156	170	151	151	147	158	172	154

† Total capacities are net (I.D blower heat subtracted) system capacities based on 25' line set.

†† If additional tubing length and/or indoor unit is located above outdoor unit, a slight variation in capacity may occur.

* System amps are total of indoor and outdoor amps

‡ S/T are based on 80 F db entering air at the indoor coil. For sensible capacities at other than 80 F db, deduct 835 Btuh per 1000 cfm of indoor coil air from MBHxS/T for each degree below 80 F, or add 835 Btuh per 1000 cfm of indoor coil air from MBHxS/T for each degree above 80 F

††† At TVA rating indoor condition (75 F db/ 63 F wb), All other indoor air temperatures are at 80 F db

SIZE 48 EXPANDED DATA

		High Stage 48 Size Outdoor With EN(A,D)4X61*24**8MV*1352422** Indoor Cooling															
		Outdoor Ambient Temperature - Degrees F, Dry Bulb								Indoor Temperature - Degrees F, Wet Bulb							
		75				85				95				105			
CFM		57	62	63††	67	72	57	62	63††	67	72	57	62	63††	67	72	57
1200	MBH†	47.30	50.25	51.23	55.28	60.74	44.22	46.59	47.48	51.21	56.26	41.02	42.79	43.59	47.04	51.68	37.80
	S/T†	1.00	0.83	0.67	0.65	0.49	1.00	0.85	0.68	0.66	0.49	1.00	0.87	0.69	0.67	0.50	1.00
	AMPS*	12.65	12.72	12.74	12.83	12.93	14.05	14.12	14.14	14.23	14.35	15.69	15.74	15.77	15.87	15.99	17.58
	HI PR	258	260	260	263	265	300	301	302	304	308	346	348	348	351	354	397
	LO PR	119	127	129	139	152	122	129	131	141	155	126	131	133	143	157	130
1300	MBH†	48.75	51.12	52.07	56.14	61.64	45.52	47.36	48.22	51.97	57.05	42.20	43.48	44.23	47.69	52.36	38.85
	S/T†	1.00	0.85	0.69	0.66	0.50	1.00	0.87	0.70	0.67	0.50	1.00	0.89	0.71	0.68	0.51	1.00
	AMPS*	12.79	12.84	12.86	12.95	13.04	14.19	14.24	14.26	14.36	14.47	15.83	15.87	15.89	15.99	16.12	17.73
	HI PR	259	260	261	263	266	301	302	302	305	308	347	348	349	351	355	398
	LO PR	123	129	131	141	155	126	131	133	143	157	130	133	135	146	160	133
1355	MBH†	49.48	51.56	52.48	56.56	62.08	46.20	47.74	48.57	52.33	57.42	42.80	43.82	44.54	48.00	52.68	39.39
	S/T†	1.00	0.87	0.70	0.67	0.50	1.00	0.88	0.71	0.68	0.50	1.00	0.90	0.72	0.69	0.51	1.00
	AMPS*	12.86	12.91	12.93	13.01	13.10	14.27	14.31	14.33	14.42	14.53	15.90	15.93	15.95	16.05	16.18	17.80
	HI PR	259	261	261	263	266	302	303	303	306	309	348	349	349	352	355	398
	LO PR	125	130	132	142	156	128	132	134	144	158	132	135	136	147	161	135
1500	MBH†	51.23	52.58	53.41	57.51	63.05	47.78	48.66	49.38	53.15	58.27	44.22	44.65	45.25	48.71	53.40	40.65
	S/T†	1.00	0.90	0.72	0.69	0.51	1.00	0.92	0.73	0.70	0.52	1.00	0.94	0.74	0.72	0.52	1.00
	AMPS*	13.04	13.07	13.09	13.17	13.26	14.46	14.48	14.50	14.59	14.69	16.09	16.10	16.12	16.22	16.35	18.00
	HI PR	260	261	262	264	267	303	303	304	306	309	349	349	350	352	356	399
	LO PR	130	133	135	145	159	133	135	137	147	161	136	137	139	149	163	140
1600	MBH†	52.31	53.20	53.95	58.05	63.61	48.75	49.23	49.85	53.63	58.75	45.10	45.22	45.65	49.12	53.81	41.42
	S/T†	1.00	0.92	0.73	0.71	0.52	1.00	0.94	0.74	0.72	0.52	1.00	0.99	0.76	0.74	0.53	1.00
	AMPS*	13.17	13.19	13.20	13.28	13.37	14.59	14.60	14.61	14.70	14.80	16.22	16.22	16.24	16.34	16.46	18.13
	HI PR	261	262	262	264	267	304	304	304	307	310	350	350	350	353	357	400
	LO PR	133	135	136	147	161	136	137	138	149	163	139	139	140	151	165	143
1700	MBH†	53.29	53.79	54.43	58.53	64.10	49.64	49.81	50.27	54.05	59.16	45.88	45.95	46.01	49.47	54.15	42.12
	S/T†	1.00	0.94	0.75	0.72	0.52	1.00	0.96	0.76	0.74	0.53	1.00	1.00	0.78	0.75	0.54	1.00
	AMPS*	13.29	13.30	13.31	13.39	13.47	14.71	14.71	14.72	14.81	14.91	16.35	16.35	16.35	16.45	16.57	18.26
	HI PR	262	262	262	264	267	304	304	305	307	310	351	351	351	353	357	401
	LO PR	135	137	138	148	162	138	139	140	150	164	142	142	142	152	166	145

† Total capacities are net (I.D blower heat subtracted) system capacities based on 25' line set.
 If additional tubing length and/or indoor unit is located above outdoor unit, a slight variation in capacity may occur.

* System amps are total of indoor and outdoor amps

‡ S/T are based on 80 F db entering air at the indoor coil. For sensible capacities at other than 80 F db, deduct 835 Btuh per 1000 cfm of indoor coil air from MBHxS/T for each degree below 80 F, or add 835 Btuh per 1000 cfm of indoor coil air from MBHxS/T for each degree above 80 F

†† At TVA rating indoor condition (75 F db/ 63 F wb), All other indoor air temperatures are at 80 F db

SIZE 48 EXPANDED DATA

Low Stage 48 Size Outdoor With EN(A,D)4X61*24**+8MV*1352422** Indoor Cooling																					
Outdoor Ambient Temperature - Degrees F, Dry Bulb																					
75		85								95								105			
CFM		Entering Indoor Temperature - Degrees F, Wet Bulb																			
		57	62	63††	67	72	57	62	63††	67	72	57	62	63††	67	72	57	62	63††	67	72
1200	MBH†	47.30	50.25	51.23	55.28	60.74	44.22	46.59	47.48	51.21	56.26	41.02	42.79	43.59	47.04	51.68	37.80	39.01	39.71	42.87	47.07
	S/T‡	1.00	0.83	0.67	0.65	0.49	1.00	0.85	0.68	0.66	0.49	1.00	0.87	0.69	0.67	0.50	1.00	0.89	0.71	0.68	0.50
	AMPS*	12.65	12.72	12.74	12.83	12.93	14.05	14.12	14.14	14.23	14.35	15.69	15.74	15.77	15.87	15.99	17.58	17.63	17.65	17.77	17.91
	HI PR	258	260	260	263	265	300	301	302	304	308	346	348	348	351	354	397	398	398	401	405
	LO PR	119	127	129	139	152	122	129	131	141	155	126	131	133	143	157	130	134	135	146	160
1300	MBH†	48.75	51.12	52.07	56.14	61.64	45.52	47.36	48.22	51.97	57.05	42.20	43.48	44.23	47.69	52.36	38.85	39.61	40.26	43.42	47.70
	S/T‡	1.00	0.85	0.69	0.66	0.50	1.00	0.87	0.70	0.67	0.50	1.00	0.89	0.71	0.68	0.51	1.00	0.91	0.72	0.70	0.51
	AMPS*	12.79	12.84	12.86	12.95	13.04	14.19	14.24	14.26	14.36	14.47	15.83	15.87	15.89	15.99	16.12	17.73	17.76	17.76	17.89	18.05
	HI PR	259	260	261	263	266	301	302	302	305	308	347	348	349	351	355	398	398	398	402	406
	LO PR	123	129	131	141	155	126	131	133	143	157	130	133	135	146	160	133	136	138	148	162
1355	MBH†	49.48	51.56	52.48	56.56	62.08	46.20	47.74	48.57	52.33	57.42	42.80	43.82	44.54	48.00	52.68	39.39	39.92	40.53	43.69	47.97
	S/T‡	1.00	0.87	0.70	0.67	0.50	1.00	0.88	0.71	0.68	0.50	1.00	0.90	0.72	0.69	0.51	1.00	0.93	0.73	0.71	0.52
	AMPS*	12.86	12.91	12.93	13.01	13.10	14.27	14.31	14.33	14.42	14.53	15.90	15.93	15.95	16.05	16.18	17.80	17.82	17.84	17.96	18.12
	HI PR	259	261	261	263	266	302	303	303	306	309	348	349	349	352	355	398	398	399	402	406
	LO PR	125	130	132	142	156	128	132	134	144	158	132	135	136	147	161	135	137	139	149	163
1500	MBH†	51.23	52.58	53.41	57.51	63.05	47.78	48.66	49.38	53.15	58.27	44.22	44.65	45.25	48.71	53.40	40.65	40.72	41.12	44.29	48.57
	S/T‡	1.00	0.90	0.72	0.69	0.51	1.00	0.92	0.73	0.70	0.52	1.00	0.94	0.74	0.72	0.52	1.00	1.00	0.76	0.74	0.53
	AMPS*	13.04	13.07	13.09	13.17	13.26	14.46	14.48	14.50	14.59	14.69	16.09	16.10	16.12	16.22	16.35	18.00	18.00	18.02	18.13	18.29
	HI PR	260	261	262	264	267	303	303	304	306	309	349	349	350	352	356	399	399	400	403	407
	LO PR	130	133	135	145	159	133	135	137	147	161	136	137	139	149	163	140	140	141	152	166
1600	MBH†	52.31	53.20	53.95	58.05	63.61	48.75	49.23	49.85	53.63	58.75	45.10	45.22	45.65	49.12	53.81	41.42	41.48	41.47	44.64	48.91
	S/T‡	1.00	0.92	0.73	0.71	0.52	1.00	0.94	0.74	0.72	0.52	1.00	0.99	0.76	0.74	0.53	1.00	1.00	0.78	0.76	0.54
	AMPS*	13.17	13.19	13.20	13.28	13.37	14.59	14.60	14.61	14.70	14.80	16.22	16.22	16.24	16.34	16.46	18.13	18.13	18.13	18.25	18.41
	HI PR	261	262	262	264	267	304	304	304	307	310	350	350	350	353	357	400	400	400	403	407
	LO PR	133	135	136	147	161	136	137	138	149	163	139	139	140	151	165	143	143	142	153	167
1700	MBH†	53.29	53.79	54.43	58.53	64.10	49.64	49.81	50.27	54.05	59.16	45.88	45.95	46.01	49.47	54.15	42.12	42.18	41.77	44.94	49.20
	S/T‡	1.00	0.94	0.75	0.72	0.52	1.00	0.96	0.76	0.74	0.53	1.00	1.00	0.78	0.75	0.54	1.00	1.00	0.80	0.78	0.55
	AMPS*	13.29	13.30	13.31	13.39	13.47	14.71	14.71	14.72	14.81	14.91	16.35	16.35	16.35	16.45	16.57	18.26	18.26	18.25	18.36	18.52
	HI PR	262	262	262	264	267	304	304	305	307	310	351	351	351	353	357	401	401	401	404	408
	LO PR	135	137	138	148	162	138	139	140	150	164	142	142	142	152	166	145	146	144	154	169

† Total capacities are net (I.D blower heat subtracted) system capacities based on 25' line set.

‡ If additional tubing length and/or indoor unit is located above outdoor unit, a slight variation in capacity may occur.

* System amps are total of indoor and outdoor amps

† S/T are based on 80 F db entering air at the indoor coil. For sensible capacities at other than 80 F db, deduct 835 Btuh per 1000 cfm of indoor coil air from MBHxS/T for each degree below 80 F, or add 835 Btuh per 1000 cfm of indoor coil air from MBHxS/T for each degree above 80 F

†† At TVA rating indoor condition (75 F db/ 63 F wb), All other indoor air temperatures are at 80 F db

SIZE 60 EXPANDED DATA

		High Stage 60 Size Outdoor With EA*4X61L24A* Indoor Cooling																																							
		Outdoor Ambient Temperature - Degrees F, Dry Bulb																																							
		75								85								95								105								115							
		Entering Indoor Temperature - Degrees F, Wet Bulb																																							
CFM		57	62	63††	67	72	57	62	63††	67	72	57	62	63††	67	72	57	62	63††	67	72	57	62	63††	67	72	57	62	63††	67	72										
1500	MB††	52.86	55.69	56.79	61.31	67.55	51.03	53.31	54.36	58.67	64.42	49.08	50.79	51.76	55.83	61.47	46.93	48.06	48.94	52.75	58.04	44.52	45.06	45.81	49.38	54.28															
	S/T‡	1.00	0.88	0.70	0.68	0.50	1.00	0.89	0.71	0.69	0.51	1.00	0.91	0.73	0.70	0.51	1.00	0.94	0.74	0.72	0.52	1.00	0.97	0.76	0.74	0.53															
	AMPS*	16.57	16.69	16.74	16.94	17.22	18.12	18.22	18.27	18.46	18.71	19.91	19.99	20.03	20.22	20.50	21.97	22.02	22.07	22.26	22.53	24.33	24.36	24.40	24.59	24.87															
	HI PR	268	269	270	273	277	310	312	313	316	320	356	358	359	363	368	407	409	409	413	419	463	463	464	468	474															
	LO PR	122	128	130	141	154	125	130	132	143	156	128	132	134	145	158	132	135	137	147	161	136	137	139	150	164															
1625	MB††	54.39	56.55	57.59	62.15	68.43	52.47	54.10	55.07	59.42	65.39	50.41	51.51	52.40	56.50	62.16	48.15	48.72	49.48	53.33	58.63	45.60	45.72	46.28	49.84	54.80															
	S/T‡	1.00	0.90	0.72	0.69	0.51	1.00	0.92	0.73	0.70	0.52	1.00	0.94	0.75	0.72	0.52	1.00	0.97	0.76	0.74	0.53	1.00	1.00	0.79	0.76	0.54															
	AMPS*	16.85	16.94	16.99	17.19	17.47	18.40	18.47	18.51	18.71	18.98	20.19	20.24	20.28	20.47	20.74	22.25	22.27	22.31	22.50	22.78	24.60	24.61	24.64	24.83	25.12															
	HI PR	269	270	271	274	278	311	313	313	317	321	358	359	360	363	369	409	409	410	414	420	484	484	465	469	475															
	LO PR	126	131	133	143	156	129	133	134	145	158	132	135	136	147	161	135	137	139	149	163	140	140	141	152	166															
1750	MB††	55.76	57.31	58.26	62.85	69.20	53.76	54.80	55.68	60.03	65.95	51.60	52.18	52.92	57.05	62.68	49.24	49.87	49.93	53.79	59.12	46.59	46.66	46.67	50.24	55.14															
	S/T‡	1.00	0.93	0.74	0.71	0.52	1.00	0.95	0.75	0.72	0.53	1.00	0.97	0.76	0.74	0.53	1.00	0.97	0.78	0.76	0.54	1.00	1.00	0.81	0.79	0.56															
	AMPS*	17.13	17.19	17.23	17.44	17.72	18.67	18.72	18.75	18.95	19.22	20.46	20.49	20.51	20.71	20.98	22.52	22.55	22.55	22.75	23.02	24.87	24.88	24.87	25.07	25.35															
	HI PR	270	271	271	274	279	312	313	314	317	322	359	360	360	364	369	410	411	411	415	420	466	466	466	470	475															
	LO PR	129	133	134	145	158	132	135	136	147	160	135	137	138	149	163	139	141	140	151	165	143	143	143	153	167															
2000	MB††	58.07	58.62	59.34	63.96	70.34	55.90	56.08	56.62	61.03	67.07	53.58	53.66	53.75	57.88	63.58	51.01	51.09	50.63	54.51	59.85	48.19	48.25	47.24	50.80	55.75															
	S/T‡	1.00	0.97	0.77	0.74	0.54	1.00	0.99	0.78	0.76	0.54	1.00	1.00	0.80	0.78	0.55	1.00	1.00	0.83	0.80	0.57	1.00	1.00	0.86	0.83	0.58															
	AMPS*	17.65	17.68	17.71	17.92	18.21	19.20	19.21	19.22	19.42	19.70	20.98	20.99	20.98	21.18	21.45	23.04	23.04	23.01	23.22	23.49	25.40	25.40	25.34	25.54	25.83															
	HI PR	272	272	272	275	280	314	315	315	319	323	361	361	361	365	370	412	412	412	416	421	468	468	467	471	477															
	LO PR	135	136	138	148	162	138	139	139	150	164	141	141	141	152	166	145	145	143	154	168	149	149	149	145	156	170														

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

SIZE 60 EXPANDED DATA

		Low Stage 60 Size Outdoor With EA*4X61L24A* Indoor Cooling																			
		Outdoor Ambient Temperature - Degrees F, Dry Bulb										105									
		75					85					95					115				
		Entering Indoor Temperature - Degrees F, Wet Bulb																			
CFM		57	62	63††	67	72	57	62	63††	67	72	57	62	63††	67	72	57	62	63††	67	72
1100	MBH†	39.47	41.54	42.47	46.16	51.16	36.39	37.89	38.74	42.12	46.73	33.18	34.11	34.87	37.96	42.18	29.90	30.29	30.92	33.75	37.59
	S/T‡	1.00	0.89	0.71	0.68	0.50	1.00	0.91	0.72	0.69	0.51	1.00	0.94	0.74	0.71	0.52	1.00	0.97	0.76	0.73	0.53
	AMPS*	11.34	11.27	11.25	11.13	10.97	12.75	12.71	12.68	12.58	12.43	14.35	14.32	14.30	14.20	14.07	16.14	16.13	16.12	16.02	15.90
	HI PR	253	255	255	258	261	294	295	296	298	302	339	340	340	343	347	388	388	389	392	396
	LO PR	126	132	134	144	158	129	134	136	146	160	133	136	138	149	163	138	139	141	152	166
1225	MBH†	41.11	42.45	43.35	47.06	52.13	37.86	38.70	39.49	42.89	47.56	34.48	34.84	35.50	38.60	42.87	31.05	31.11	31.45	34.28	38.15
	S/T‡	1.00	0.93	0.73	0.71	0.52	1.00	0.95	0.75	0.72	0.52	1.00	0.98	0.77	0.74	0.53	1.00	1.00	0.79	0.76	0.54
	AMPS*	11.48	11.44	11.42	11.30	11.14	12.90	12.87	12.85	12.74	12.60	14.50	14.49	14.48	14.38	14.24	16.30	16.29	16.29	16.20	16.08
	HI PR	255	255	256	258	261	295	296	296	299	303	340	340	341	344	348	389	389	389	392	396
	LO PR	131	135	137	147	161	134	137	139	149	163	138	139	141	152	166	143	143	144	154	168
1350	MBH†	42.54	43.25	44.04	47.76	52.88	39.15	39.54	41.92	43.49	48.19	35.63	35.69	36.00	39.11	43.39	32.05	32.10	31.86	34.69	38.57
	S/T‡	1.00	0.96	0.76	0.73	0.53	1.00	0.99	1.00	0.75	0.54	1.00	1.00	0.80	0.77	0.55	1.00	1.00	0.82	0.80	0.56
	AMPS*	11.63	11.61	11.59	11.46	11.30	13.05	13.04	12.96	12.92	12.77	14.67	14.66	14.66	14.56	14.42	16.47	16.46	16.48	16.38	16.26
	HI PR	256	256	257	259	262	296	297	299	300	303	341	341	342	344	348	390	390	390	393	397
	LO PR	135	137	139	150	164	139	140	147	152	166	143	143	143	154	168	147	147	146	156	170
1475	MBH†	43.82	44.56	44.62	48.34	53.48	40.29	40.36	40.58	43.99	48.68	36.62	36.68	36.41	39.45	43.67	32.91	32.96	32.20	35.02	38.90
	S/T‡	1.00	0.95	0.78	0.75	0.54	1.00	1.00	0.80	0.77	0.55	1.00	1.00	0.82	0.80	0.56	1.00	1.00	0.85	0.83	0.58
	AMPS*	11.78	11.76	11.76	11.64	11.48	13.21	13.21	13.21	13.10	12.95	14.83	14.82	14.84	14.72	14.59	16.64	16.63	16.66	16.57	16.45
	HI PR	257	257	257	259	262	297	297	298	300	303	342	342	342	345	348	391	391	390	394	398
	LO PR	140	142	141	152	166	143	143	143	154	168	146	147	145	156	170	151	151	148	158	172

† Total capacities are net (I.D blower heat subtracted) system capacities based on 25' line set.
 If additional tubing length and/or indoor unit is located above outdoor unit, a slight variation in capacity may occur.

* System amps are total of indoor and outdoor amps

‡ S/T are based on 80 F db entering air at the indoor coil. For sensible capacities at other than 80 F db, deduct 835 Btuh per 1000 cfm of indoor coil air from MBHxS/T for each degree below 80 F, or add 835 Btuh per 1000 cfm of indoor coil air from MBHxS/T for each degree above 80 F

†† At TVA rating indoor condition (75 F db/ 63 F wb), All other indoor air temperatures are at 80 F db

ACCESSORY USAGE GUIDELINES

Accessory	REQUIRED FOR LOW AMBIENT COOLING APPLICATIONS (17 SEER Product Only) (Below 55°F / 12.8°C)	REQUIRED FOR LONG LINE APPLICATIONS* (Over 80 ft. / 24.38 m)	Required for Sea Coast Application (within 2 miles/3.22 km)
Crankcase Heater	Yes Standard on some units	Yes, standard on some units	No
Compressor Start Assist Capacitor and Relay	No	No	No
Liquid Line Solenoid Valve	No	See Long Line Applications Guideline	No
Support Feet	Recommended	No	Recommended
Hard Shutoff TXV	Yes (Standard with factory approved indoor unit)	Yes (Standard with factory approved indoor unit)	Yes (Standard with factory approved indoor unit)
Evaporator Freeze Thermostat	Yes	No	No
Low-Ambient Pressure Switch	Yes	No	No
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 Long Line Applications Guideline.

ACCESSORIES

Part Number	Description	Used On Model GKA2, GKB
NASA401LS	Liquid Line Solenoid Valve, R-410A	ALL
NASA001TD	Time Delay Relay, Indoor Blower	ALL
NASA00201SF	Support Feet, 4" (102mm) tall	ALL
NASA010SC	Hard Start Kit (Capacitor & Relay)	N/A
NASA011SC	Hard Start Kit (Capacitor & Relay)	N/A
NASA012SC	Hard Start Kit (Capacitor & Relay)	24, 36
NASA013SC	Hard Start Kit (Capacitor & Relay)	N/A
NASA015SC	Hard Start Kit (Capacitor & Relay)	48, 60
NASA01201CH	Crankcase Heater Kit (Factory installed on 48 & 60)	24, 36
NASA00201FS	Evaporator Freeze Thermostat	ALL
NASA00201WS	Winter Start Control	ALL
NASA401LA	Low Ambient Kit (Pressure Switch) R-410A	ALL
WALL CONTROL		
TSTAT01201CW	Observer™ Self Configuring Communicating Wall Control	ALL