



CVA9

ProComfort Deluxe 19 with SmartSense™ Technology Product Specifications

HIGH EFFICIENCY UP TO 19 SEER VARIABLE-SPEED AIR CONDITIONER WITH ION® COMMUNICATING SYSTEM

2 THRU 5 TONS SPLIT SYSTEM — 208–230 Volt, 1-phase, 60 Hz

REFRIGERATION CIRCUIT

- Variable speed compressor operates at 5 stages with capacity range from as wide as 25 – 100%
- High pressure switch
- Suction pressure transducer
- Pressure equalizer valve for easy starting
- Compressor discharge temperature sensor
- Coil temperature sensor
- Copper tube/aluminum fin coil

PERFORMANCE

- Up to 13.0 EER
- Integrated inverter control enables 5-stage operation with complete Ion® Communicating System
- Ion® System Control with version 5.0 or newer software required for 5 stage operation
- Also capable of 2-stage operation with 2-stage thermostat
- Self-configuring installation with Ion® System Control
- Compact ECM fan motor driven by integrated inverter control
- Outdoor temperature sensor factory installed
- High-performance compressor sound shield standard
- Isolation compressor grommets
- Enhanced dehumidification

EASY TO INSTALL AND SERVICE

- Text based diagnostics with Ion® Communicating System Control
- Only 2 control wires required from communicating indoor unit to condenser
- External high and low refrigerant service ports
- Factory charged with R-410A refrigerant
- Adjustments for min and max staging with Ion® System Control

BUILT TO LAST

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

LIMITED 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)

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



SYST0101CW
(Sold Separately)



smartsense
TECHNOLOGY



Qualifying models only

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 length/width (sq.) in. (mm)	Operating/Ship Weight lbs. (kg)
CVA924GKA	2	24,000	13.5	20	31–13/16 x 23–1/8 (807 x 587)	128/150(58/68)
CVA925GKA ‡	2	24,000	23.6	40	38–1/2 x 23–1/8 (980 x 587)	152/177 (69/80)
CVA936GKA	3	36,000	24.2	40		152/177 (69/80)
CVA937GKA ‡	3	36,000	26.0	40	38–15/16 x 31–3/16 (989 x 792)	205/242 (93/110)
CVA948GKA	4	48,000	27.3	40		205/242 (93/110)
CVA949GKA ‡	4	48,000	26.0	40	43–11/16 x 35 (1111 x 889)	249/285 (113/129)
CVA960GKA	5	60,000	40.0	60	42–5/16 x 31–3/16 (1075 x 792)	229/268(104/121)

‡ = Meets Energy Star criteria when matched with appropriate coil

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	V	A	9	24	G	K	A	1	0	0
C = Keeprite Mainline											
BRANDING											
V = Variable Speed											
KEY CHARACTERISTIC											
A = Air Conditioner											
H = Heat Pump											
TYPE											
6 = 16 SEER											
7 = 17 SEER											
8 = 18 SEER											
9 = 19 SEER											
NOMINAL EFFICIENCY											
24 = 24,000 BTUH = 2 tons											
25 = 24,000 BTUH = 2 tons											
36 = 36,000 BTUH = 3 tons											
37 = 36,000 BTUH = 3 tons											
48 = 48,000 BTUH = 4 tons											
60 = 60,000 BTUH = 5 tons											
NOMINAL CAPACITY											
G = Coil Guard Grille											
FEATURES											
K = 208/230-1-60											
VOLTAGE											
Sales Code											
Engineering Revision											
Extra Digit											
Extra Digit											

ACCESSORIES PART NUMBER IDENTIFICATION GUIDE									
Digit Position:	1	2	3	4	5	6, 7	8, 9	10, 11	
Example Part Number:	N	A	S	A	0	0 1	01	CH	
N = Non-Branded									
A = Accessory		PRODUCT GROUP							
S = Split System (AC & HP)		KIT USAGE							
A = Original									
B = 2nd Generation		MAJOR SERIES							
0 = Generic or Not Applicable									
2 = R-22									
4 = R-410A		REFRIGERANT							
Product Identifier Number									
Package Quantity									
Type of Kit (Example: CH = Crankcase Heater)									

PHYSICAL DATA

UNIT SIZE SERIES	24	25	36	37	48	49	60
Compressor Type	Variable Speed Rotary						
REFRIGERANT	R-410A						
Control	TXV (R-410A Hard Shutoff)						
Charge lb (kg)	4.80 (2.18)	5.5 (2.50)	6.0 (2.72)	7.5 (3.40)	7.5 (3.40)	9.6 (4.35)	8.30 (3.76)
COND FAN	Forward Swept Propeller Type, Direct Drive						
Air Discharge	Vertical						
Air Qty (CFM)	2500	2500	2500	4500	4500	4800	4500
Motor HP	1/5	1/3	1/3	1/3	1/3	1/3	1/3
Motor RPM	825	1050	1050	850	850	850	900
COND COIL							
Face Area (Sq ft)	11.12	13.90	13.90	21.50	21.50	27.53	23.65
Fins per In.	20	20	20	20	20	25	20
Rows	1	1	1	1	1	1	1
Circuits	5	6	6	8	8	8	8
VALVE CONNECT. (In. ID)							
Vapor	5/8	3/4	3/4	7/8	7/8	7/8	7/8
Liquid	3/8						
REFRIGERANT TUBES (In. OD)							
Rated Vapor*	3/4	7/8	7/8	1-1/8	1-1/8	1-1/8	1-1/8
Max Liquid Line	3/8						

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

Note: See unit Installation Instruction for proper installation.

REFRIGERANT PIPING LENGTH LIMITATIONS

Maximum Line Lengths:

The maximum allowable total equivalent length for air conditioners can vary depending on the vertical separation. See the tables below for allowable lengths depending on whether the outdoor unit is on the same level, above or below the outdoor unit.

Maximum Line Lengths for Air Conditioner Applications

	MAXIMUM ACTUAL LENGTH ft (m)	MAXIMUM EQUIVALENT LENGTH† ft (m)	MAXIMUM VERTICAL SEPARATION ft (m)
Units on equal level	100 (30.5)	100 (30.5)	N/A
Outdoor unit ABOVE indoor unit	100 (30.5)	100 (30.5)	100 (30.5)
Outdoor unit BELOW indoor unit	See Table 'Maximum Total Equivalent Length: Outdoor Unit BELOW Indoor Unit'		

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

Maximum Total Equivalent Length† – Outdoor Unit BELOW Indoor Unit

Size	Liquid Line Diameter w/ TXV	AC with R-410A Refrigerant – Maximum Total Equivalent Length† Vertical Separation ft (m) Outdoor unit BELOW indoor unit;						
		0–20 (0 – 6.1)	21–30 (6.4 – 9.1)	31–40 (9.4 – 12.2)	41–50 (12.5 – 15.2)	51–60 (15.5 – 18.3)	61–70 (18.6 – 21.3)	71–80 (21.6 – 24.4)
2–Ton	3/8	100*	100*	100*	100*	100*	100*	100*
3–Ton	3/8	100*	100*	100*	100*	100*	100*	100*
4–Ton	3/8	100*	100*	100*	100*	100	100	—
5–Ton	3/8	100*	100*	100*	100*	100	100	—

* Maximum actual length not to exceed 100 ft (30.5 m)

† Total equivalent length accounts for losses due to elbows or fitting.

— = outside acceptable range

LONG LINE APPLICATIONS

Unit is approved for up to 100 ft (30.5 m) equivalent length and vertical separations shown above with no additional accessories. Longer line set applications are not permitted.

COOLING CAPACITY LOSS TABLE

Nominal Size (Btuh)	Line OD (in.)	CVA9 Cooling Capacity Loss (%)				
		Total Equivalent Line Length (ft)				
		25	50	75	80	100
24	5/8	0.5	1.2	1.8	1.9	2.4
	3/4	0.1	0.4	0.6	0.7	0.8
25	5/8	0.5	1.2	1.8	1.9	2.4
	3/4	0.1	0.4	0.6	0.7	0.8
	7/8	0.0	0.1	0.3	0.3	0.4
36 37	5/8	1.1	2.4	3.7	4.0	5.0
	3/4	0.3	0.8	1.3	1.4	1.8
	7/8	0.0	0.3	0.5	0.6	0.8
48 49	3/4	0.7	1.6	2.4	2.6	3.2
	7/8	0.3	0.7	1.1	1.2	1.6
	1 1/8	0.0	0.1	0.2	0.3	0.4
60	3/4	1.0	2.3	3.5	3.8	4.8
	7/8	0.4	1.0	1.7	1.8	2.3
	1 1/8	0.0	0.1	0.3	0.4	0.5

Rating Line Size in **BOLD**

MIN/MAX AIRFLOW TABLES

The indoor airflow delivered by this system varies significantly based on outdoor temperature, indoor unit combination, and system demand. The airflows on these tables are for duct design considerations. Duct systems capable of these ranges will ensure the system will deliver full capacity at all outdoor temperatures.

Minimum and maximum airflows can be adjusted from these numbers in the Ion® System Control Setup screen.

Cooling – Comfort Mode			Minimum Cooling (Dehum or Zoning)
Size	Max Stage 5 Airflow	Max Stage 1 Airflow	
2–Ton	739	300	300
3–Ton	990	300	300
4–Ton	1389	542	457
5–Ton	1600	700	600

Cooling – Efficiency Mode		
Size	Max Stage 5 Airflow	Max Stage 1 Airflow
2–Ton	825	585
3–Ton	1050	600
4–Ton	1400	875
5–Ton	1800	975

Cooling Max Mode		
Size	Max Stage 5 Airflow	Max Stage 1 Airflow
2–Ton (24)	850	585
2–Ton (25) (550 cfm/ delivered ton)*	1350	510
3–Ton	1200	600
4–Ton	1600	875
4–Ton–49	1450	875
5–Ton	2000	975

LEGEND::

Max Capacity Airflow – Stage 5 airflow varies depending on conditions. This is the highest airflow the system will attempt to deliver in this particular mode. Ductwork for non–zoned systems should be sized for this airflow to ensure the system can deliver full capacity when needed. Improper duct design may result in excessive airflow noise and/or cutback occurrences at max airflow conditions.

Highest Min. Capacity Airflow – Stage 1 airflow also varies depending on conditions. In zoned systems, each zone must be capable of delivering this airflow for the system to deliver full capacity into the zone. Otherwise, airflow may be diverted to other zones or cutback may occur.

Min Cooling (Dehum or Zoning) – Lowest airflow the system will deliver. May operate down to this airflow in dehumidification mode or in zoning applications where ductwork restrictions have caused the blower to cut–back.

ELECTRICAL DATA

UNIT SIZE– VOLTAGE, SERIES	V/PH	OPER VOLTS*		COMPR		FAN	MCA	MAX FUSE ** or CKT BRK AMPS
		MAX	MIN	LRA	RLA	FLA		
24	208/230 –1–60	253	197	N/A	10.3	0.58	13.5	20
25				N/A	17.7	1.20	23.6	40
36				N/A	18.4	1.20	24.2	40
37				N/A	19.6	1.20	26.0	40
48				N/A	20.9	1.20	27.3	40
49				N/A	19.6	1.40	26.0	40
60				N/A	30.9	1.40	40.0	60

* 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 2010 requirements of ASHRAE Standards 90.1

CHARGING SUBCOOLING (TXV-TYPE EXPANSION DEVICE)

UNIT SIZE-VOLTAGE, SERIES	Subcooling recommendation displayed in Charging Mode the subcooling chart shown on the charging label must be followed
24	
25	
36	
37	
48	
49	
60	

RPM-CAPACITY-SOUND (dBA)*

CVA924			
1	1500	35%	56
2	2566	56%	60
3	3150	69%	65
4	3950	87%	66
5	4700	100%	67
CVA925			
1	1200	36%	56
2	1900	58%	61
3	2400	73%	63
4	2600	79%	67
5	3300	100%	69
CVA936			
1	1200	25%	57
2	2400	50%	61
3	3300	69%	65
4	4200	88%	69
5	4800	100%	71
CVA937			
1	1200	40%	57
2	1800	60%	63
3	2200	73%	67
4	2600	87%	67
5	3000	100%	68
CVA948			
1	1500	35%	63
2	2460	57%	65
3	2800	65%	67
4	3650	84%	70
5	4320	100%	72
CVA949			
1	1200	38%	58
2	1840	59%	62
3	2300	74%	66
4	2700	87%	68
5	3120	100%	74
CVA960			
1	1200	32%	58
2	2180	55%	61
3	2850	70%	64
4	3700	90%	70
5	4140	100%	72

*Estimated sound for stages 2, 3, and 4

For 2-stage operation: Low = Stage 2, High = Stage 5

SOUND POWER LEVEL (dBA)

Unit Size—Voltage, Series	Typical Octave Band Spectrum (without tone adjustment)	Min Speed Cooling	Max Speed Cooling
24	Freq (Hz)	1500 RPM	4700 RPM
	125	40.5	44.0
	250	45.5	49.5
	500	41.5	53.0
	1000	44.0	52.5
	2000	39.0	50.5
	4000	34.5	53.0
	8000	31.0	45.0
	Sound Rating (dBA)	56	67
25	Freq (Hz)	1200 RPM	3300 RPM
	125	40.4	45.4
	250	44.4	57.9
	500	46.3	61.3
	1000	45.0	58.0
	2000	37.2	54.7
	4000	31.0	52.0
	8000	28.4	41.9
	Sound Rating (dBA)	56	69
36	Freq (Hz)	1200 RPM	4800 RPM
	125	40.4	43.9
	250	44.4	53.9
	500	46.3	61.8
	1000	45.0	59.0
	2000	37.2	56.7
	4000	31.0	60.0
	8000	28.4	45.4
	Sound Rating (dBA)	57	71
37	Freq (Hz)	1200	3000
	125	45.0	54.5
	250	48.5	59.0
	500	50.5	63.0
	1000	50.0	60.5
	2000	44.0	59.5
	4000	37.5	57.5
	8000	44.5	52.0
	Sound Rating (dBA)	57	68
48	Freq (Hz)	1500 RPM	4320 RPM
	125	40.9	42.4
	250	46.4	54.4
	500	47.3	60.3
	1000	56.5	63.5
	2000	39.2	56.7
	4000	35.0	56.0
	8000	31.9	44.9
	Sound Rating (dBA)	63	72
49	Freq (Hz)	1200	3120
	125	44.5	52.0
	250	48.5	63.0
	500	50.5	63.5
	1000	51.5	67.5
	2000	47.5	61.5
	4000	43.5	58.5
	8000	47.5	54.5
	Sound Rating (dBA)	58	74
60	Freq (Hz)	1200 RPM	4140 RPM
	125	39.0	49.5
	250	48.0	59.5
	500	46.5	62.0
	1000	45.5	60.0
	2000	39.5	58.5
	4000	36.5	55.0
	8000	35.5	48.0
	Sound Rating (dBA)	58	72

NOTE: Tested in compliance with AHRI 270—2008 but not listed with AHRI.

DIMENSIONS – ENGLISH

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)		
*VA924GKA	1	X	0	0	23 1/8"	31 13/16"	3 3/4"	3/4"	4 7/16"	18 1/16"	7 13/16"	2 13/16"	1/2"	11 1/4"	11 1/4"	14 1/2"	128	150	25 1/4" X 25 1/4" X 35 5/8"		
*VA925GKA	1	X	0	0	23 1/8"	38 1/2"	3 3/4"	3/4"	4 7/16"	18 1/16"	7 13/16"	2 13/16"	1/2"	10 3/4"	10 3/4"	18 1/4"	152	177	25 1/4" X 25 1/4" X 43 3/8"		
*VA936GKA	1	X	0	0	23 1/8"	38 1/2"	3 3/4"	3/4"	4 7/16"	18 1/16"	7 13/16"	2 13/16"	1/2"	10 3/4"	10 3/4"	18 1/4"	152	177	25 1/4" X 25 1/4" X 43 3/8"		
*VA937GKA	1	X	0	0	31 3/16"	38 15/16"	3 7/8"	7/8"	6 9/16"	24 11/16"	9 1/8"	2 15/16"	5/8"	14 1/2"	14 5/8"	18 3/4"	205	242	33 3/8" X 33 3/8" X 46 1/8"		
*VA948GKA	1	X	0	0	31 3/16"	38 15/16"	3 7/8"	7/8"	6 9/16"	24 11/16"	9 1/8"	2 15/16"	5/8"	14 1/2"	14 5/8"	18 3/4"	205	242	33 3/8" X 33 3/8" X 46 1/8"		
*VA949GKA	1	X	0	0	35"	43 11/16"	3 7/8"	7/8"	6 9/16"	28 7/16"	9 1/8"	2 15/16"	5/8"	16 1/4"	16 1/4"	21 1/4"	249	285	36 1/8" X 36 1/8" X 50 3/16"		
*VA960GKA	1	X	0	0	31 3/16"	42 5/16"	3 7/8"	7/8"	6 9/16"	24 11/16"	9 1/8"	2 15/16"	5/8"	16 1/2"	15"	20"	229	268	33 3/8" X 33 3/8" X 49 9/16"		

			UNIT SIZE		"X" MN GROUND MOUNTING PAD APPLICATION DIMENSIONS	"Y" MN ROOF-TOP MOUNTING PAD APPLICATION DIMENSIONS
			24, 25, 36		23 1/8"	17 3/4"
			-		25 3/4"	20 7/16"
			37, 48, 60		31 3/16"	23"
			49		35"	26 3/4"

NOTES:

X = YES
O = NO

1. ALLOW 30" CLEARANCE TO SERVICE SIDE OF UNIT.
48" ABOVE UNIT, 6" ON ONE SIDE, 12" ON REMAINING SIDE,
AND 24" BETWEEN UNITS FOR PROPER AIRFLOW.

2. MINIMUM OUTDOOR OPERATING AMBIENT IN COOLING
MODE IS 55°F. MAX. 115°F.

3. SERIES DESIGNATION IS THE 10TH POSITION OF THE

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)	
*VA924GKA	1	X	0	0	587.3	807.3	96.1	19.1	112.7	458.8	198.4	71.4	12.7	285.8	368.3	58	68	641.5	X 641.5 X 905.2
*VA925GKA	1	X	0	0	587.3	980.1	96.1	19.1	112.7	458.8	198.4	71.4	12.7	273.1	463.6	69	80	641.5	X 641.5 X 1102.2
*VA936GKA	1	X	0	0	587.3	980.1	96.1	19.1	112.7	458.8	198.4	71.4	12.7	273.1	463.6	69	80	641.5	X 641.5 X 1102.2
*VA937GKA	1	X	0	0	792.2	988.5	98.4	22.2	166.7	627.1	231.8	74.6	15.9	368.3	476.3	93	110	846.6	X 846.6 X 1172.2
*VA948GKA	1	X	0	0	792.2	988.5	98.4	22.2	166.7	627.1	231.8	74.6	15.9	368.3	476.3	93	110	846.6	X 846.6 X 1172.2
*VA949GKA	1	X	0	0	889.0	1111.0	98.4	22.2	166.7	722.3	231.8	74.6	15.9	412.8	539.8	113	124	917.7	X 917.7 X 1274.9
*VA960GKA	1	X	0	0	792.2	1074.9	98.4	22.2	166.7	627.1	231.8	74.6	15.9	419.1	508.0	104	121	846.6	X 846.6 X 1258.6

208/230-160	230-160	208/230-3-60	460-3-60
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UNIT SIZE	X* MN GROUND MOUNTING PAD APPLICATION DIMENSIONS	Y* MN ROOF-TOP MOUNTING PAD APPLICATION DIMENSIONS
24,25,36	587.4	451.3
-	654.0	518.5
37,48,60	792.2	583.2
49	889.0	679.7

NOTES:

1. ALLOW 762.0 CLEARANCE TO SERVICE SIDE OF UNIT, 1219.2 ABOVE UNIT, 152.4 ON ONE SIDE, 304.8 ON REMAINING SIDE, AND 609.6 BETWEEN UNITS FOR PROPER AIRFLOW.

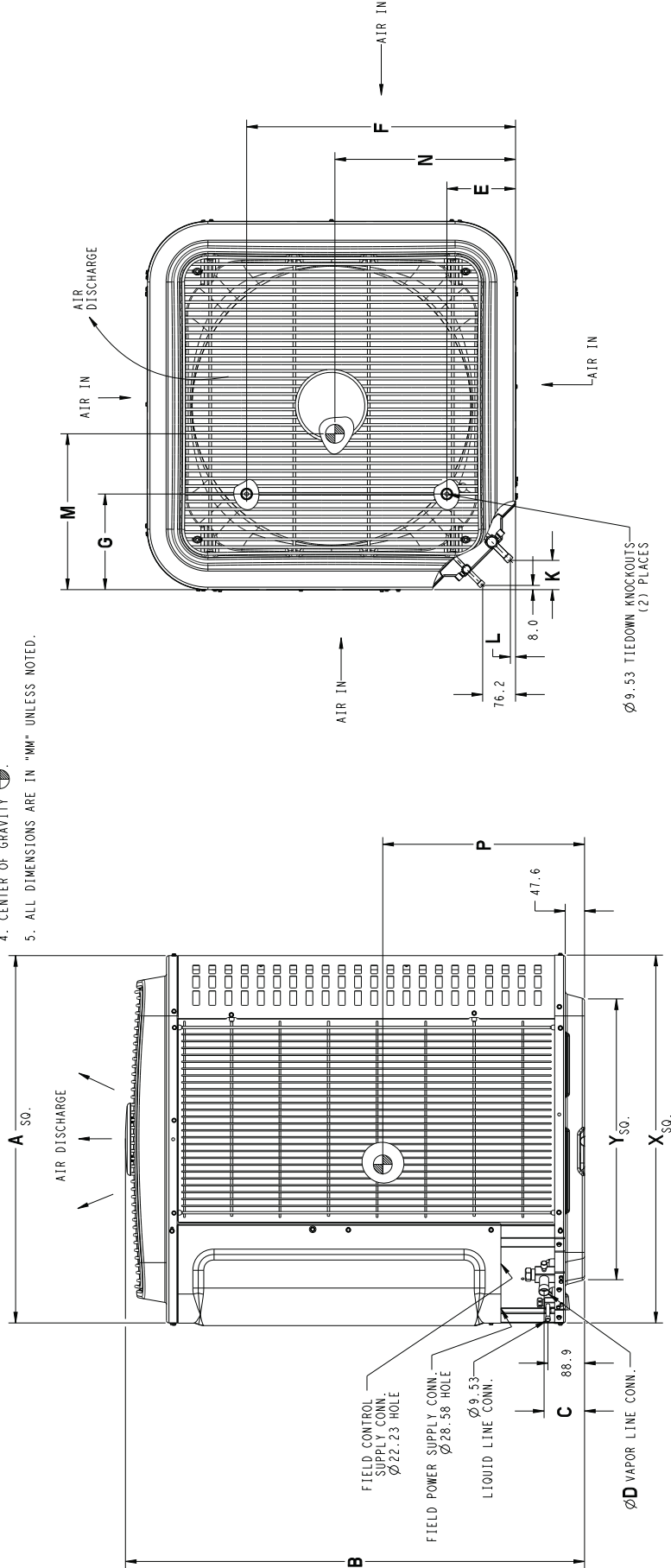
2. MINIMUM OUTDOOR OPERATING AMBIENT IN COOLING MODE IS 13°C, MAX. 46°C.

3. SERIES DESIGNATION IS THE 10TH POSITION OF THE UNIT MODEL NUMBER.

4. CENTER OF GRAVITY

5. ALL DIMENSIONS ARE IN "MM" UNLESS NOTED.

X = YES
O = NO



Representative drawing only, some models may vary in appearance.

SD5337-4 REV C

* = C, H, T

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.icpep.com/AHRIratings/ratings.aspx?Brand=Keeprite>

Or scan this QR code:



Model Number	Coil Model Number	Furnace Model Number	Stages	Cooling Capacity High	SEER	EER	ID CFM
CVA924GKA101	FCM4X24***L + WALLCON		5	24,000	18.0	11.0	825
CVA924GKA101	FVM4X24***L		2	23,800	16.0	11.0	700
CVA925GKA101	FCM4X48***L + WALLCON		5	24,000	19.0	12.5	825
CVA925GKA101	FVM4X36***L		2	22,600	19.0	12.2	700
CVA936GKA101	FCM4X48***L + WALLCON		5	35,000	18.0	10.5	1050
CVA936GKA101	FVM4X48***L		2	35,000	16.0	10.5	1050
CVA937GKA101	FCM4X60***L + WALLCON		5	33,600	19.0	13.0	1050
CVA948GKA101	FCM4X60***L + WALLCON		5	46,500	19.0	11.0	1400
CVA948GKA101	FVM4X60***L		2	46,000	15.5	11.0	1400
CVA949GKA101	FCM4X60***L + WALLCON		5	45,500	19	12.5	1400
CVA960GKA101	FCM4X60***L + WALLCON		5	57,000	17.0	10.0	1600
CVA960GKA101	FVM4X60***L		2	57,500	15.0	10.0	1750

Ratings with “+ WALLCON” are **communicating** systems with Ion® System Control and 5—stages of operation. Ratings without “+ WALLCON” are **non—communicating** systems with 2—stage operation.

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

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

EER — Energy Efficiency Ratio

SEER — Seasonal Energy Efficiency Ratio

WALLCON — Wall Control

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

CVA924

DETAILED COOLING CAPACITIES# – EFFICIENCY MODE

EDB °F (°C)	EVAR. AIR	CVA924 / FCMA924***L Efficiency Mode										Condenser Entering Air Temperature °F (°C)										75 (23.9)										65 (18.3)																	
		95 (35)					85 (29.4)					75 (23.9)					65 (18.3)					55 (13.3)					45 (7.2)					35 (1.7)																	
		Capacity MBtuh		Total Sys. KW**		ID SCFM	Capacity MBtuh		Total Sys. KW**		ID SCFM	Capacity MBtuh		Total Sys. KW**		ID SCFM	Capacity MBtuh		Total Sys. KW**		ID SCFM	Capacity MBtuh		Total Sys. KW**		ID SCFM	Capacity MBtuh		Total Sys. KW**		ID SCFM	Capacity MBtuh		Total Sys. KW**		ID SCFM	Capacity MBtuh		Total Sys. KW**										
		Total	Sens†	Total	Sens†		Total	Sens†	Total	Sens†		Total	Sens†	Total	Sens†		Total	Sens†	Total	Sens†		Total	Sens†	Total	Sens†		Total	Sens†	Total	Sens†		Total	Sens†	Total	Sens†		Total	Sens†	Total	Sens†	Total	Sens†	Total	Sens†					
STAGE 5																																																	
75 (23.9)	72(22.2)	23.43	9.90	2.85	25.03	10.49	2.52	26.46	11.02	2.20	28.00	11.60	1.91	29.51	12.16	1.63	31.01	12.73	1.37	32.51	13.30	1.11	34.01	13.87	0.85	35.51	14.44	0.59	37.01	15.01	0.33	38.51	15.58	0.07	40.01	16.15	-0.19	41.51	16.72	-0.45	43.01	17.29	-0.71	44.51	17.86	-0.97			
	67(19.4)	21.30	13.70	2.81	22.76	14.32	2.49	24.07	14.89	2.18	25.46	15.50	1.90	26.82	16.10	1.63	28.19	16.70	1.38	29.51	17.27	1.07	30.82	17.84	0.81	32.14	18.41	0.55	33.47	18.98	0.29	34.80	19.55	0.03	36.13	20.12	-0.23	37.46	20.69	-0.49	38.79	21.26	-0.75	40.12	21.83	-1.01			
	63(17.2)	19.74	16.69	2.78	21.07	17.34	2.47	22.29	17.94	2.17	23.58	18.57	1.89	24.79	19.17	1.63	26.01	19.77	1.37	27.22	20.37	1.11	28.45	20.97	0.85	29.68	21.57	0.59	30.91	22.17	0.33	32.14	22.77	0.07	33.47	23.37	-0.23	34.80	23.97	-0.49	36.13	24.57	-0.75	37.46	25.17	-1.01			
	57(13.9)	18.74	18.74	2.76	19.81	19.81	2.45	20.78	20.78	2.15	21.79	21.79	1.88	22.78	22.78	1.63	23.77	23.77	1.37	24.76	24.76	1.11	25.75	25.75	0.85	26.74	26.74	0.59	27.73	27.73	0.33	28.72	28.72	0.07	29.71	29.71	-0.23	30.70	30.70	-0.49	31.69	31.69	-0.75	32.68	32.68	-1.01			
80 (26.7)	72(22.2)	23.36	13.70	2.85	24.96	14.32	2.52	26.39	14.88	2.20	27.93	15.49	1.91	29.44	16.09	1.63	30.94	16.69	1.37	32.44	17.27	1.07	33.94	17.84	0.81	35.44	18.41	0.55	36.94	18.98	0.29	38.44	19.55	0.03	39.94	20.12	-0.23	41.44	20.69	-0.49	42.94	21.26	-0.75	44.44	21.83	-1.01			
	67(19.4)	21.24	17.45	2.81	22.69	18.11	2.49	24.00	18.72	2.18	25.39	19.36	1.90	26.76	19.99	1.63	28.12	20.63	1.38	29.44	21.26	1.07	30.72	21.83	0.81	32.04	22.40	0.55	33.37	22.97	0.29	34.69	23.54	0.03	36.01	24.11	-0.23	37.32	24.68	-0.49	38.65	25.25	-0.75	40.00	25.82	-1.01			
	63(17.2)	19.96	19.96	2.78	21.18	20.93	2.47	22.35	21.63	2.17	23.61	22.34	1.89	24.86	23.02	1.63	26.10	23.70	1.38	27.39	24.29	1.11	28.62	24.86	0.85	29.85	25.43	0.59	31.08	26.00	0.33	32.31	26.57	0.07	33.54	27.14	-0.23	34.77	27.71	-0.49	36.03	28.28	-0.75	37.38	28.85	-1.01			
	57(13.9)	19.93	19.93	2.78	21.05	21.05	2.47	22.07	22.07	2.16	23.12	23.12	1.89	24.16	24.16	1.63	25.17	25.17	1.38	26.16	26.16	1.11	27.15	27.15	0.85	28.14	28.14	0.59	29.13	29.13	0.33	30.12	30.12	0.07	31.11	31.11	-0.23	32.10	32.10	-0.49	33.09	33.09	-0.75	34.08	34.08	-1.01			
STAGE 3																																																	
75 (23.9)	72(22.2)	16.60	7.18	1.72	17.75	7.59	1.53	18.75	7.96	1.31	19.88	8.37	1.12	20.99	8.78	0.94	22.08	9.18	0.77	23.17	9.59	0.51	24.26	9.99	0.25	25.35	10.39	-0.01	26.44	10.79	-0.27	27.53	11.19	-0.53	28.62	11.59	-0.79	29.71	11.99	-1.05	30.80	12.39	-1.31	31.89	12.79	-1.57			
	67(19.4)	15.01	10.22	1.72	16.06	10.66	1.53	16.99	11.06	1.32	17.88	11.49	1.14	18.79	11.92	0.97	19.69	12.34	0.81	20.59	12.74	0.55	21.49	13.14	0.29	22.39	13.54	0.03	23.29	13.94	-0.10	24.19	14.34	-0.36	25.09	14.74	-0.62	25.99	15.14	-0.88	26.89	15.54	-1.14						
	63(17.2)	13.88	12.59	1.71	14.82	13.06	1.54	15.70	13.48	1.32	16.62	13.94	1.15	17.52	14.38	0.99	18.40	14.82	0.84	19.28	14.82	0.68	20.16	15.26	0.42	21.04	15.70	0.16	21.92	16.14	-0.10	22.80	16.58	-0.36	23.68	17.02	-0.62	24.56	17.46	-0.88	25.44	17.90	-1.14						
	57(13.9)	13.48	13.48	1.71	14.25	14.25	1.54	14.97	14.97	1.32	15.70	15.70	1.16	16.40	16.40	0.94	17.10	17.10	0.86	17.80	17.80	0.64	18.50	18.50	0.44	19.20	19.20	0.24	19.90	19.90	0.04	20.60	20.60	-0.16	21.30	21.30	-0.40	22.00	22.00	-0.66	22.70	22.70	-0.92	23.40	23.40	-1.18			
80 (26.7)	72(22.2)	16.54	10.24	1.72	17.69	10.68	1.53	18.68	11.07	1.31	19.81	11.51	1.12	20.92	11.94	0.94	22.01	12.37	0.77	23.10	12.78	0.51	24.19	13.18	0.25	25.28	13.58	-0.01	26.37	13.98	-0.27	27.46	14.38	-0.53	28.55	14.78	-0.79	29.64	15.18	-1.05	30.73	15.58	-1.31	31.82	15.98	-1.57			
	67(19.4)	14.98	13.23	1.72	16.01	13.70	1.53	16.94	14.13	1.32	17.95	14.59	1.14	18.93	15.05	0.97	19.91	15.50	0.81	20.89	15.94	0.55	21.88	16.34	0.29	22.87	16.74	0.03	23.86	17.14	-0.23	24.84	17.54	-0.49	25.82	17.94	-0.75	26.80	18.34	-1.01	27.78	18.74	-1.27	28.76	19.14	-1.53			
	63(17.2)	14.42	14.42	1.72	15.24	15.24	1.53	15.99	15.99	1.32	16.77	16.77	1.15	17.61	17.39	0.99	18.46	17.89	0.83	19.31	18.23	0.68	20.16	19.08	0.42	21.00	19.92	0.22	21.84	20.76	0.02	22.68	21.60	-0.18	23.52	22.44	-0.42	24.40	23.32	-0.68	25.28	24.20	-0.94	26.16	25.08	-1.20	27.02	25.94	-1.46
	57(13.9)	14.40	14.40	1.72	15.22	15.22	1.53	15.96	15.96	1.32	16.74	16.74	1.15	17.50	17.50	0.99	18.23	18.23	0.84	18.99	18.99	0.68	19.71	19.71	0.39	20.43	20.43	0.19	21.15	21.15	-0.01	21.87	21.87	-0.27	22.59	22.59	-0.53	23.31	23.31	-0.79	24.03	24.03	-1.05	24.75	24.75	-1.31			
STAGE 1																																																	
75 (23.9)	72(22.2)	14.01	6.30	1.38	15.00	6.65	1.24	16.00	7.00	1.04	17.00	7.40	0.88	18.00	7.80	0.72	19.00	8.20	0.56	20.00	8.60	0.40	21.00	9.00	0.24	22.00	9.40	0.08	23.00	9.80	-0.08	24.00	10.20	-0.32	25.00	10.60	-0.56	26.00	11.00	-0.80	27.00	11.40	-1.04	28.00	11.80	-1.28			
	67(19.4)	12.64	9.35	1.39	13.52	9.73	1.25	14.49	10.16	1.06	15.46	10.54	0.90	16.43	10.92	0.74	17.40	11.30	0.58	18.37	11.68	0.42	19.34	12.06	0.26	20.31	12.44	0.10	21.28	12.82	-0.14	22.25	13.26	-0.38	23.22	13.56	-0.62	24.19	13.91	-0.86	25.16	14.26	-1.10	26.13	14.61	-1.34			
	63(17.2)	11.71	11.62	1.39	12.49	12.06	1.26	13.25	12.83	1.06	14.02	13.60	0.90	14.79	14.37	0.74	15.56	15.14	0.58	16.33	15.91	0.42	17.10	16.68	0.26	17.87	17.45	0.10	18.64	18.22	-0.14	19.41	18.79	-0.38	20.18	19.36	-0.62	20.95	20.13	-0.86	21.72	20.90	-1.10	22.49	21.67	-1.34			
	57(13.9)	11.67	11.67	1.39	12.35	12.35	1.26	13.11	13.11	1.06	13.87	13.87	0.90	14.63	14.63	0.74	15.39	15.39	0.58	16.15	16.15	0.42	16.91	16.91	0.26	17.67	17.67	0.10	18.43	18.43	-0.14	19.19	19.19	-0.38	19.95	19.95	-0.62	20.71	20.71	-0.94	21.48	21.48	-1.18						
80 (26.7)	72(22.2)	13.95	9.39	1.38	14.94	9.76	1.24	15.93	10.18	1.04	16.92	10.50	0.88	17.91	10.88	0.72	18.90	11.28	0.56	19.89	11.66	0.40	20.88	12.04	0.24	21.87	12.40	0.08	22.86	12.82	-0.04	23.85	13.28	-0.28	24.84	13.70	-0.52	25.83	14.12	-0.76	26.82	14.54	-1.00	27.81	14.96	-1.24	28.80	15.38	-1.48
	67(19.4)	12.66	12.32	1.39	13.52	12.75	1.25	14.49	12.16	1.05	15.46	12.83	0.90	16.43	13.10	0.74	17.40	13.46	0.58	18.37	13.82	0.42	19.34	14.18	0.26	20.31	14.61	0.10	21.28	15.04	-0.14	22.25	15.46	-0.38	23.22	15.88	-0.62	24.19	16.29	-0.86	25.16	16.70	-1.10	26.13	17.12	-1.34			
	63(17.2)	12.55	12.55	1.39	13.26	13.26	1.26	13.97	13.97	1.06	14.68	13.97	0.90	15.39	15.39	0.74	16.10	16.10	0.58	16.81	16.81	0.42	17.52	17.52	0.26	18.23	18.23	0.10	18.94	18.94	-0.14	19.65	19.65	-0.38	20.36	20.36	-0.62	21.07	21.07	-0.94	21.79	21.79	-1.18						
	57(13.9)	12.53	12.53	1.39	13.24	13.24	1.26	13.95	13.95	1.06	14.66	14.66	0.90	15.37	15.37	0.74	16.08	16.08	0.58	16.79	16.79	0.42	17.50	17.50	0.26	18.21	18.21	0.10	18.92	18.92	-0.14	19.63	19.63	-0.38	20.34	20.34	-0.62	21.05	21.05	-0.94	21.77	21.77	-1.18						

CVA924

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CVA925
DETAILED COOLING CAPACITIES# – EFFICIENCY MODE CONTINUED

EDB °F (°C)	EVA.P. AIR	CVA925 / FCM4X48***L Efficiency Mode Condenser Entering Air Temperature °F (°C)																																			
		115 (46.1)						105 (40.5)						95 (35)						85 (29.4)						75 (23.9)						65 (18.3)					
		ID SCF M	Capacity MBtuh Total Sens ‡	Total Sys. KW**	ID SCF M	Capacity MBtuh Total Sens ‡	Total Sys. KW**	ID SCF M	Capacity MBtuh Total Sens ‡	Total Sys. KW**	ID SCF M	Capacity MBtuh Total Sens ‡	Total Sys. KW**	ID SCF M	Capacity MBtuh Total Sens ‡	Total Sys. KW**	ID SCF M	Capacity MBtuh Total Sens ‡	Total Sys. KW**	ID SCF M	Capacity MBtuh Total Sens ‡	Total Sys. KW**	ID SCF M	Capacity MBtuh Total Sens ‡	Total Sys. KW**												
75 (23.9)	72 (22.2)	825	23.68	9.99	2.51	825	25.12	10.51	2.21	825	26.43	11.00	1.90	825	27.77	11.50	1.62	825	29.08	11.99	1.34	825	30.34	12.47	1.07												
	67 (19.4)		21.55	13.82	2.50		22.88	14.39	2.21		24.10	14.93	1.92		25.35	15.48	1.65		26.55	16.01	1.39		27.72	16.54	1.13												
	63 (17.2)		19.97	16.81	2.49		21.22	17.43	2.22		22.38	18.00	1.93		23.54	18.59	1.67		24.67	19.16	1.42		25.77	19.72	1.17												
	57 (13.9)		18.96	18.96	2.48		19.97	19.97	2.21		20.91	20.91	1.94		21.84	21.84	1.69		22.75	22.75	1.45		23.62	23.62	1.21												
	72 (22.2)		23.52	13.77	2.50		24.94	14.33	2.20		26.25	14.85	1.90		27.59	15.38	1.61		28.89	15.91	1.34		30.15	16.42	1.07												
80 (26.7)	67 (19.4)	825	21.46	17.56	2.50	825	22.78	18.18	2.21	825	24.00	18.75	1.92	825	25.24	19.33	1.65	825	26.45	19.90	1.39	825	27.61	20.46	1.13												
	63 (17.2)		20.19	20.19	2.49		21.30	21.10	2.22		22.43	21.76	1.93		23.57	22.40	1.67		24.68	23.02	1.42		25.77	23.62	1.17												
	57 (13.9)		20.15	20.15	2.49		21.20	21.20	2.22		22.18	22.18	1.93		23.15	23.15	1.67		24.09	24.09	1.43		25.00	25.00	1.19												
	STAGE 3																																				
	72 (22.2)		650	15.55	6.67		1.25	650	16.54		7.02	1.17	650		17.29	7.30	1.03		650	18.23	7.64		0.91	650	19.14	7.98	0.77	650	20.05	8.32	0.61						
67 (19.4)	14.11	9.43		1.25	15.02	9.82	1.18		15.76	10.15	1.05	16.63		10.52	0.95	17.47	10.89	0.82		18.29	11.25	0.67															
63 (17.2)	13.09	11.60		1.25	13.94	12.02	1.19		14.67	12.38	1.06	15.47		12.78	0.97	16.26	13.17	0.85		17.02	13.56	0.71															
57 (13.9)	12.65	12.65		1.25	13.36	13.36	1.20		13.97	13.97	1.07	14.62		14.62	0.98	15.26	15.26	0.87		15.89	15.89	0.75															
72 (22.2)	15.43	9.41		1.24	16.40	9.79	1.17		17.14	10.08	1.03	18.08		10.45	0.91	18.99	10.81	0.77		19.94	11.19	0.61															
80 (26.7)	67 (19.4)	650	14.07	12.14	1.25	650	14.97	12.56	1.18	650	15.70	12.91	1.05	650	16.56	13.31	0.94	650	17.39	13.70	0.82	650	18.21	14.09	0.67												
	63 (17.2)		13.49	13.49	1.25		14.23	14.23	1.19		14.84	14.84	1.06		15.54	15.49	0.96		16.30	15.95	0.84		17.05	16.38	0.71												
	57 (13.9)		13.47	13.47	1.25		14.20	14.20	1.19		14.81	14.81	1.06		15.50	15.50	0.96		16.17	16.17	0.85		16.81	16.81	0.72												
	STAGE 1																																				
	72 (22.2)		650	12.12	5.39		0.73	650	12.92		5.68	0.75	650		13.65	5.96	0.66		650	14.37	6.24		0.58	650	15.04	6.51	0.49	650	15.76	6.79	0.41						
67 (19.4)	10.98	7.95		0.74	11.73	8.27	0.77		12.48	8.56	0.68	13.22		8.83	0.60	13.96	9.10	0.52		14.69	9.37	0.38															
63 (17.2)	10.22	9.94		0.74	10.91	10.29	0.77		11.60	10.56	0.68	12.28		10.83	0.60	12.96	11.11	0.47		13.65	11.36	0.34															
57 (13.9)	10.14	10.14		0.74	10.74	10.74	0.78		11.34	10.99	0.68	11.94		11.16	0.60	12.54	11.41	0.47		13.22	11.61	0.36															
72 (22.2)	11.99	7.94		0.73	12.79	8.25	0.75		13.50	8.51	0.66	14.20		8.77	0.58	14.89	9.04	0.49		15.50	9.30	0.44															
80 (26.7)	67 (19.4)	650	10.97	10.45	0.74	650	11.70	10.80	0.76	650	12.43	10.99	0.68	650	13.16	11.16	0.60	650	13.89	11.43	0.52	650	14.61	11.70	0.38												
	63 (17.2)		10.83	10.83	0.74		11.46	11.46	0.77		12.10	11.16	0.68		12.74	11.16	0.60		13.38	11.73	0.52		14.09	11.99	0.34												
	57 (13.9)		10.82	10.82	0.74		11.44	11.44	0.77		12.08	11.14	0.66		12.72	11.14	0.58		13.36	11.41	0.49		14.09	12.01	0.40												
	72 (22.2)		12.12	5.39	0.73		12.92	5.68	0.75		13.65	5.96	0.66		14.37	6.24	0.58		15.04	6.51	0.49		15.76	6.79	0.41												
	67 (19.4)		10.98	7.95	0.74		11.73	8.27	0.77		12.48	8.56	0.68		13.22	8.83	0.60		13.96	9.10	0.52		14.69	9.37	0.38												

CVA925
DETAILED COOLING CAPACITIES# – COMFORT + DEHUMIDIFY MODE CONTINUED

EDB °F (°C)	EVAP AIR °F (°C)	CVA925 / FCM4X48***L Comfort + Dehumidify Mode																			
		Condenser Entering Air Temperature °F (°C)																			
		105 (40.5)					95 (35)					85 (29.4)									
		ID SCFM	Capacity Total	MBtuh Sensit	Total Sys. KW	ID SCFM	Capacity Total	MBtuh Sensit	Total Sys. KW	ID SCFM	Capacity Total	MBtuh Sensit	Total Sys. KW	ID SCFM	Capacity Total	MBtuh Sensit	Total Sys. KW				
75 (23.9)	72 (22.2)	608	19.25	8.01	1.62	608	25.24	10.26	1.88	634	26.68	10.84	1.61	663	28.11	11.43	1.34	708	29.64	12.06	1.07
	67 (19.4)		17.48	10.88	1.63		22.98	13.18	1.89		24.31	13.92	1.63		25.64	14.68	1.38		27.06	15.57	1.13
	63 (17.2)		16.21	13.13	1.64		21.29	15.45	1.90		22.54	16.31	1.65		23.79	17.21	1.41		25.13	18.30	1.17
	57 (13.9)		15.18	15.18	1.65		19.10	18.78	1.90		20.23	19.83	1.66		21.37	20.92	1.44		22.62	22.29	1.21
	72 (22.2)		19.12	10.84	1.61		25.12	13.12	1.88		26.55	13.85	1.60		27.98	14.60	1.33		29.49	15.47	1.07
80 (26.7)	67 (19.4)	608	17.42	13.69	1.63	608	22.91	16.02	1.89	634	24.24	16.91	1.63	663	25.56	17.83	1.38	708	26.97	18.96	1.13
	63 (17.2)		16.26	15.91	1.64		21.26	18.28	1.90		22.51	19.29	1.65		23.76	20.35	1.41		25.10	21.68	1.17
	57 (13.9)		16.12	16.12	1.64		20.08	20.08	1.90		21.23	21.23	1.66		22.41	22.41	1.42		23.77	23.77	1.19
	STAGE 3																				
	72 (22.2)		15.62	6.37	1.16		16.33	6.64	1.03		17.27	7.02	0.91		18.26	7.42	0.78		19.32	7.87	0.62
75 (23.9)	67 (19.4)	437	14.19	8.25	1.17	437	14.88	8.57	1.04	452	15.74	9.03	0.94	475	16.66	9.56	0.82	510	17.64	10.18	0.68
	63 (17.2)		13.12	9.74	1.18		13.79	10.07	1.05		14.60	10.61	0.96		15.46	11.23	0.85		16.38	12.00	0.71
	57 (13.9)		11.80	11.80	1.18		12.35	12.27	1.06		13.08	12.91	0.97		13.87	13.68	0.88		14.74	14.65	0.76
	72 (22.2)		15.55	8.23	1.16		16.25	8.52	1.02		17.19	8.98	0.91		18.17	9.50	0.78		19.23	10.12	0.62
	67 (19.4)		14.14	10.11	1.17		14.83	10.44	1.04		15.69	10.99	0.94		16.60	11.63	0.82		17.57	12.43	0.67
80 (26.7)	63 (17.2)	437	13.11	11.59	1.18	437	13.77	11.94	1.05	452	14.58	12.56	0.96	475	15.44	13.30	0.85	510	16.36	14.24	0.71
	57 (13.9)		12.51	12.51	1.18		13.05	13.05	1.05		13.78	13.78	0.97		14.60	14.60	0.86		15.55	15.55	0.74
	STAGE 1 – FCM4X48*** ONLY																				
	72 (22.2)		6.36	2.59	0.47		9.26	3.75	0.47		9.75	3.95	0.47		10.23	4.15	0.43		10.72	4.35	0.36
	67 (19.4)		10.72	6.18	0.76		8.39	4.68	0.48		8.84	4.89	0.49		9.27	5.09	0.47		9.70	5.30	0.40
75 (23.9)	63 (17.2)	342	9.90	7.24	0.76	250	7.74	5.40	0.49	250	8.15	5.61	0.51	250	8.56	5.83	0.49	250	8.96	6.04	0.44
	57 (13.9)		8.82	8.81	0.77		6.85	6.46	0.49		7.22	6.68	0.52		7.59	6.90	0.52		7.95	7.12	0.48
	72 (22.2)		11.79	6.17	0.75		9.23	4.68	0.47		9.72	4.88	0.47		10.20	5.09	0.43		10.68	5.30	0.36
	67 (19.4)		10.69	7.53	0.76		8.37	5.60	0.48		8.81	5.82	0.49		9.25	6.03	0.47		9.68	6.24	0.40
	63 (17.2)		9.88	8.60	0.76		7.72	6.32	0.49		8.14	6.54	0.51		8.54	6.76	0.49		8.95	6.98	0.44
80 (26.7)	57 (13.9)	342	9.35	9.35	0.77	250	7.09	7.09	0.49	250	7.40	7.40	0.52	250	7.70	7.70	0.51	250	8.00	8.00	0.48
	STAGE 1 – ALL OTHER INDOOR COMBINATIONS																				
	72 (22.2)		3.18	1.29	0.24		8.99	3.64	0.47		9.59	3.89	0.48		9.99	4.06	0.44		10.66	4.33	0.36
	67 (19.4)		10.72	6.18	0.76		8.13	4.46	0.48		8.68	4.76	0.50		9.04	4.92	0.48		9.65	5.25	0.41
	63 (17.2)		9.90	7.24	0.76		7.49	5.09	0.49		8.00	5.44	0.51		8.34	5.58	0.50		8.91	5.98	0.44
75 (23.9)	57 (13.9)	342	8.82	8.81	0.77	222	6.63	6.02	0.49	234	7.09	6.43	0.52	229	7.39	6.56	0.52	245	7.90	7.04	0.48
	72 (22.2)		11.79	6.17	0.75		8.96	4.47	0.47		9.55	4.76	0.47		9.96	4.92	0.44		10.62	5.26	0.36
	67 (19.4)		10.69	7.53	0.76		8.11	5.28	0.48		8.66	5.63	0.50		9.02	5.78	0.48		9.63	6.18	0.41
	63 (17.2)		9.88	8.60	0.76		7.48	5.91	0.49		7.99	6.31	0.51		8.33	6.44	0.50		8.89	6.91	0.44
	57 (13.9)		9.35	9.35	0.77		6.73	6.73	0.49		7.19	7.19	0.52		7.40	7.40	0.52		7.93	7.93	0.48
80 (26.7)	72 (22.2)	342	3.18	1.29	0.24	222	8.99	3.64	0.47	234	9.59	3.89	0.48	229	9.99	4.06	0.44	245	10.66	4.33	0.36
	67 (19.4)		10.72	6.18	0.76		8.13	4.46	0.48		8.68	4.76	0.50		9.04	4.92	0.48		9.65	5.25	0.41
	63 (17.2)		9.90	7.24	0.76		7.49	5.09	0.49		8.00	5.44	0.51		8.34	5.58	0.50		8.91	5.98	0.44
	57 (13.9)		8.82	8.81	0.77		6.63	6.02	0.49		7.09	6.43	0.52		7.39	6.56	0.52		7.90	7.04	0.48
	72 (22.2)		11.79	6.17	0.75		8.96	4.47	0.47		9.55	4.76	0.47		9.96	4.92	0.44		10.62	5.26	0.36
75 (23.9)	67 (19.4)	342	10.69	7.53	0.76	222	8.11	5.28	0.48	234	8.66	5.63	0.50	229	9.02	5.78	0.48	245	9.63	6.18	0.41
	63 (17.2)		9.88	8.60	0.76		7.48	5.91	0.49		7.99	6.31	0.51		8.33	6.44	0.50		8.89	6.91	0.44
	57 (13.9)		9.35	9.35	0.77		6.73	6.73	0.49		7.19	7.19	0.52		7.40	7.40	0.52		7.93	7.93	0.48
	STAGE 1 – ALL OTHER INDOOR COMBINATIONS																				
	72 (22.2)		3.18	1.29	0.24		8.99	3.64	0.47		9.59	3.89	0.48		9.99	4.06	0.44		10.66	4.33	0.36
80 (26.7)	67 (19.4)	342	10.72	6.18	0.76	222	8.13	4.46	0.48	234	8.68	4.76	0.50	229	9.04	4.92	0.48	245	9.65	5.25	0.41
	63 (17.2)		9.90	7.24	0.76		7.49	5.09	0.49		8.00	5.44	0.51		8.34	5.58	0.50		8.91	5.98	0.44
	57 (13.9)		8.82	8.81	0.77		6.63	6.02	0.49		7.09	6.43	0.52		7.39	6.56	0.52		7.90	7.04	0.48
	72 (22.2)		11.79	6.17	0.75		8.96	4.47	0.47		9.55	4.76	0.47		9.96	4.92	0.44		10.62	5.26	0.36
	67 (19.4)		10.69	7.53	0.76		8.11	5.28	0.48		8.66	5.63	0.50		9.02	5.78	0.48		9.63	6.18	0.41
75 (23.9)	63 (17.2)	342	9.88	8.60	0.76	222	7.48	5.91	0.49	234	7.99	6.31	0.51	229	8.33	6.44	0.50	245	8.89	6.91	0.44
	57 (13.9)		9.35	9.35	0.77		6.73	6.73	0.49		7.19	7.19	0.52		7.40	7.40	0.52		7.93	7.93	0.48
	STAGE 1 – ALL OTHER INDOOR COMBINATIONS																				
	72 (22.2)		3.18	1.29	0.24		8.99	3.64	0.47		9.59	3.89	0.48		9.99	4.06	0.44		10.66	4.33	0.36
	67 (19.4)		10.72	6.18	0.76		8.13	4.46	0.48		8.68	4.76	0.50		9.04	4.92	0.48		9.65	5.25	0.41
80 (26.7)	63 (17.2)	342	9.90	7.24	0.76	222	7.49	5.09	0.49	234	8.00	5.44	0.51	229	8.34	5.58	0.50	245	8.91	5.98	0.44
	57 (13.9)		8.82	8.81	0.77		6.63	6.02	0.49		7.09	6.43	0.52		7.39	6.56	0.52		7.90	7.04	0.48
	72 (22.2)		11.79	6.17	0.75		8.96	4.47	0.47		9.55	4.76	0.47		9.96	4.92	0.44		10.62	5.26	0.36
	67 (19.4)		10.69	7.53	0.76		8.11	5.28	0.48		8.66	5.63	0.50		9.02	5.78	0.48		9.63	6.18	0.41
	63 (17.2)		9.88	8.60	0.76		7.48	5.91	0.49		7.99	6.31	0.51		8.33	6.44	0.50		8.89	6.91	0.44
75 (23.9)	57 (13.9)	342	9.35	9.35	0.77	222	6.73	6.73	0.49	234	7.19	7.19	0.52	229	7.40	7.40	0.52	245	7.93	7.93	0.48
	STAGE 1 – ALL OTHER INDOOR COMBINATIONS																				
	72 (22.2)		3.18	1.29	0.24		8.99	3.64	0.47		9.59	3.89	0.48		9.99	4.06	0.44		10.66	4.33	0.36
	67 (19.4)		10.72	6.18	0.76		8.13	4.46	0.48		8.68	4.76	0.50		9.04	4.92	0.48		9.65	5.25	0.41
	63 (17.2)		9.90	7.24	0.76		7.49	5.09	0.49		8.00	5.44	0.51		8.34	5.58	0.50		8.91	5.98	0.44
80 (26.7)	57 (13.9)	342	8.82	8.81	0.77	222	6.63	6.02	0.49	234	7.09	6.43	0.52	229	7.39	6.56	0.52	245	7.90	7.04	0.48
	72 (22.2)		11.79	6.17	0.75		8.96	4.47	0.47		9.55	4.76	0.47		9.96	4.92	0.44		10.62	5.26	0.36
	67 (19.4)		10.69	7.53	0.76		8.11	5.28	0.48		8.66	5.63	0.50		9.02	5.78	0.48		9.63	6.18	0.41
	63 (17.2)		9.88	8.60	0.76		7.48	5.91	0.49		7.99	6.31	0.51		8.33	6.44	0.50		8.89	6.91	0.44
	57 (13.9)		9.35	9.35	0.77		6.73	6.73	0.49		7.19	7.19	0.52		7.40	7.40	0.52		7.93	7.93	0.48

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See notes on page 28

CVA936
DETAILED COOLING CAPACITIES# – EFFICIENCY MODE CONTINUED

EDB °F (°C)	EVAR. AIR	CVA936 / FCM4X4g*** Efficiency Mode																													
		Condenser Entering Air Temperature °F (°C)																													
		115 (46.1)					105 (40.5)					95 (35)					85 (29.4)					75 (23.9)					65 (18.3)				
		ID SCFM	Capacity MBtuh Total	Sens†	Total Sys. KW**	ID SCFM	Capacity MBtuh Total	Sens†	Total Sys. KW**	ID SCFM	Capacity MBtuh Total	Sens†	Total Sys. KW**	ID SCFM	Capacity MBtuh Total	Sens†	Total Sys. KW**	ID SCFM	Capacity MBtuh Total	Sens†	Total Sys. KW**	ID SCFM	Capacity MBtuh Total	Sens†	Total Sys. KW**						
75 (23.9)	72 (22.2)	1050	34.24	14.18	4.44	1050	36.41	14.99	3.89	1050	38.29	15.70	3.36	1050	40.30	16.47	2.87	1050	42.28	17.24	2.41	1050	44.18	17.98	1.98						
	67 (19.4)		31.38	19.07	4.38		33.35	19.95	3.85		35.13	20.75	3.34		36.99	21.60	2.87		38.79	22.42	2.43		40.52	23.22	2.02						
	63 (17.2)		29.21	22.90	4.33		31.07	23.84	3.81		32.74	24.70	3.31		34.48	25.59	2.86		36.17	26.47	2.44		37.79	27.32	2.04						
	57 (13.9)		27.05	27.05	4.27		28.50	28.50	3.77		29.85	29.85	3.28		31.20	31.20	2.84		32.65	32.25	2.44		34.08	33.21	2.06						
	72 (22.2)		34.04	18.92	4.44		36.21	19.79	3.88		38.09	20.56	3.35		40.10	21.39	2.86		42.08	22.22	2.41		43.98	23.01	1.98						
80 (26.7)	67 (19.4)	1050	31.25	23.78	4.38	1050	33.23	24.72	3.84	1050	35.00	25.57	3.33	1050	36.86	26.47	2.86	1050	38.66	27.35	2.42	1050	40.39	28.21	2.02						
	63 (17.2)		29.21	27.55	4.33		31.05	28.56	3.81		32.70	29.48	3.31		34.43	30.44	2.86		36.11	31.38	2.43		37.72	32.28	2.04						
	57 (13.9)		28.61	28.61	4.32		30.14	30.14	3.80		31.53	31.53	3.30		32.95	32.95	2.85		34.31	34.31	2.44		35.64	35.64	2.05						
	72 (22.2)		21.81	9.32	1.96		23.25	9.85	1.83		24.29	10.24	1.67		25.66	10.75	1.50		27.01	11.26	1.31		28.33	11.75	1.10						
	67 (19.4)		19.85	13.12	1.96		21.18	13.71	1.84		22.21	14.19	1.68		23.48	14.77	1.52		24.72	15.33	1.35		25.94	15.89	1.15						
75 (23.9)	63 (17.2)	900	18.41	16.08	1.95	900	19.66	16.73	1.85	900	20.68	17.29	1.68	900	21.87	17.91	1.54	900	23.02	18.53	1.37	900	24.16	19.14	1.19						
	57 (13.9)		17.71	17.71	1.95		18.75	18.75	1.85		19.63	19.63	1.68		20.61	20.61	1.54		21.57	21.57	1.39		22.50	22.50	1.22						
	72 (22.2)		21.64	13.06	1.95		23.07	13.65	1.83		24.08	14.08	1.66		25.46	14.65	1.49		26.81	15.21	1.31		28.13	15.76	1.10						
	67 (19.4)		19.77	16.83	1.95		21.09	17.48	1.84		22.11	18.01	1.67		23.37	18.64	1.52		24.60	19.26	1.35		25.82	19.87	1.15						
	63 (17.2)		18.86	18.86	1.95		19.95	19.95	1.84		20.82	20.82	1.68		21.94	21.67	1.53		23.07	22.38	1.37		24.19	23.06	1.19						
80 (26.7)	57 (13.9)	900	18.83	18.83	1.95	900	19.91	19.91	1.84	900	20.79	20.79	1.68	900	21.82	21.82	1.53	900	22.82	22.82	1.37	900	23.80	23.80	1.20						
	72 (22.2)		14.74	6.58	0.98		15.80	6.96	1.00		10.82	4.81	0.48		11.57	5.09	0.46		12.38	5.38	0.39		13.21	5.69	0.27						
	67 (19.4)		13.36	9.71	0.98		14.34	10.16	1.02		9.83	7.10	0.49		10.52	7.42	0.49		11.24	7.76	0.44		11.99	8.11	0.34						
	63 (17.2)		12.47	12.13	0.98		13.37	12.65	1.03		9.17	8.88	0.51		9.81	9.25	0.51		10.45	9.62	0.47		11.13	10.00	0.38						
	57 (13.9)		12.37	12.37	0.98		13.18	13.18	1.03		9.09	9.09	0.51		9.66	9.66	0.52		10.22	10.22	0.48		10.81	10.81	0.40						
75 (23.9)	72 (22.2)	800	14.58	9.69	0.97	800	15.63	10.12	1.00	800	10.67	7.06	0.47	800	11.46	7.39	0.46	800	12.27	7.73	0.39	800	13.08	8.07	0.27						
	67 (19.4)		13.36	12.75	0.98		14.32	13.27	1.02		9.80	9.32	0.49		10.49	9.70	0.49		11.21	10.08	0.44		11.95	10.47	0.34						
	63 (17.2)		13.20	13.20	0.98		14.04	14.04	1.02		9.68	9.68	0.49		10.28	10.28	0.49		10.89	10.89	0.45		11.52	11.52	0.36						
	57 (13.9)		13.18	13.18	0.98		14.02	14.02	1.02		9.67	9.67	0.49		10.26	10.26	0.49		10.87	10.87	0.45		11.50	11.50	0.36						
	72 (22.2)		14.74	6.58	0.98		15.80	6.96	1.00		10.82	4.81	0.48		11.57	5.09	0.46		12.38	5.38	0.39		13.21	5.69	0.27						
80 (26.7)	67 (19.4)	800	13.36	12.75	0.98	800	14.32	13.27	1.02	800	9.80	9.32	0.49	800	10.49	9.70	0.49	800	11.21	10.08	0.44	800	11.95	10.47	0.34						
	63 (17.2)		13.20	13.20	0.98		14.04	14.04	1.02		9.68	9.68	0.49		10.28	10.28	0.49		10.89	10.89	0.45		11.52	11.52	0.36						
	57 (13.9)		13.18	13.18	0.98		14.02	14.02	1.02		9.67	9.67	0.49		10.26	10.26	0.49		10.87	10.87	0.45		11.50	11.50	0.36						
	72 (22.2)		14.74	6.58	0.98		15.80	6.96	1.00		10.82	4.81	0.48		11.57	5.09	0.46		12.38	5.38	0.39		13.21	5.69	0.27						
	67 (19.4)		13.36	9.71	0.98		14.34	10.16	1.02		9.83	7.10	0.49		10.52	7.42	0.49		11.24	7.76	0.44		11.99	8.11	0.34						

CVA936
DETAILED COOLING CAPACITIES# – COMFORT + DEHUMIDIFY MODE CONTINUED

EDB °F (°C)	EVAP AIR °F (°C)	CVA936 / FCM4X48***L Comfort + Dehumidify Mode																			
		Condenser Entering Air Temperature °F (°C)																			
		105 (40.5)					95 (35)					85 (29.4)									
		ID SCFM	Capacity Total	MBtuh Sensit	Total Sys. KW	ID SCFM	Capacity Total	MBtuh Sensit	Total Sys. KW	ID SCFM	Capacity Total	MBtuh Sensit	Total Sys. KW	ID SCFM	Capacity Total	MBtuh Sensit	Total Sys. KW				
75 (23.9)	72 (22.2)	812	35.03	14.21	3.80	812	36.79	14.91	3.28	848	38.97	15.79	2.81	887	41.14	16.67	2.38	948	43.43	17.61	1.97
	67 (19.4)		32.03	18.10	3.76		33.69	18.87	3.26		35.70	19.98	2.81		37.69	21.10	2.39		39.83	22.39	2.00
	63 (17.2)		29.78	21.12	3.72		31.34	21.94	3.23		33.23	23.22	2.80		35.10	24.53	2.40		37.11	26.09	2.02
	57 (13.9)		26.68	25.51	3.66		28.08	26.39	3.19		29.78	27.92	2.78		31.49	29.50	2.40		33.35	31.47	2.04
	72 (22.2)		34.90	17.98	3.79		36.65	18.72	3.28		38.82	19.81	2.81		40.98	20.92	2.37		43.26	22.19	1.97
80 (26.7)	67 (19.4)	812	31.95	21.83	3.75	812	33.60	22.64	3.25	848	35.61	23.95	2.81	887	37.60	25.30	2.39	948	39.72	26.91	2.00
	63 (17.2)		29.73	24.84	3.72		31.29	25.70	3.23		33.16	27.18	2.80		35.04	28.72	2.39		37.04	30.61	2.02
	57 (13.9)		27.71	27.71	3.68		28.95	28.95	3.20		30.66	30.66	2.78		32.41	32.41	2.40		34.42	34.42	2.04
	72 (22.2)		21.74	8.83	1.80		22.72	9.22	1.63		24.20	9.82	1.47		25.61	10.39	1.30		27.10	11.00	1.09
	67 (19.4)		19.76	11.28	1.80		20.72	11.74	1.64		22.09	12.54	1.49		23.39	13.27	1.33		24.77	14.10	1.14
75 (23.9)	63 (17.2)	566	18.28	13.20	1.80	566	19.22	13.70	1.63	600	20.51	14.65	1.50	626	21.73	15.51	1.35	664	23.02	16.51	1.18
	57 (13.9)		16.37	16.02	1.79		17.25	16.59	1.63		18.42	17.76	1.51		19.53	18.80	1.37		20.72	20.04	1.21
	72 (22.2)		21.65	11.25	1.80		22.62	11.67	1.63		24.08	12.45	1.47		25.49	13.17	1.29		26.96	13.99	1.09
	67 (19.4)		19.70	13.69	1.80		20.66	14.18	1.63		22.03	15.15	1.49		23.32	16.03	1.33		24.69	17.07	1.14
	63 (17.2)		18.26	15.60	1.80		19.20	16.13	1.63		20.48	17.26	1.50		21.70	18.27	1.35		22.99	19.47	1.17
80 (26.7)	57 (13.9)	566	17.18	17.18	1.80	566	17.96	17.96	1.63	600	19.20	19.20	1.50	626	20.34	20.34	1.36	664	21.61	21.61	1.20
	72 (22.2)		14.50	5.90	0.99		9.48	3.84	0.49		10.07	4.08	0.49		10.66	4.32	0.45		11.47	4.65	0.35
	67 (19.4)		13.17	7.58	1.00		8.59	4.79	0.50		9.13	5.04	0.52		9.66	5.30	0.49		10.39	5.71	0.41
	63 (17.2)		12.18	8.91	1.00		7.92	5.53	0.51		8.42	5.80	0.53		8.92	6.07	0.51		9.60	6.55	0.45
	57 (13.9)		10.89	10.84	1.01		7.02	6.61	0.52		7.46	6.90	0.55		7.91	7.19	0.54		8.52	7.77	0.49
75 (23.9)	72 (22.2)	417	14.44	7.57	0.99	250	9.44	4.79	0.49	250	10.03	5.04	0.49	250	10.62	5.30	0.45	267	11.43	5.71	0.35
	67 (19.4)		13.13	9.25	1.00		8.56	5.73	0.50		9.10	6.01	0.52		9.64	6.28	0.49		10.36	6.78	0.41
	63 (17.2)		12.16	10.56	1.00		7.91	6.47	0.51		8.41	6.76	0.53		8.91	7.05	0.51		9.58	7.61	0.45
	57 (13.9)		11.52	11.52	1.01		7.26	7.26	0.52		7.64	7.64	0.54		8.03	8.03	0.54		8.66	8.66	0.48
	72 (22.2)		14.50	5.90	0.99		9.35	3.79	0.49		9.88	4.01	0.50		10.62	4.30	0.45		11.47	4.65	0.35
80 (26.7)	67 (19.4)	417	13.17	7.58	1.00	236	8.46	4.68	0.50	232	8.94	4.90	0.52	246	9.62	5.27	0.49	267	10.39	5.71	0.41
	63 (17.2)		12.18	8.91	1.00		7.80	5.37	0.51		8.25	5.59	0.53		8.88	6.02	0.51		9.60	6.55	0.45
	57 (13.9)		10.89	10.84	1.01		6.91	6.39	0.52		7.30	6.60	0.55		7.87	7.12	0.54		8.52	7.77	0.49
	72 (22.2)		14.44	7.57	0.99		9.31	4.68	0.49		9.84	4.90	0.50		10.58	5.27	0.45		11.43	5.71	0.35
	67 (19.4)		13.13	9.25	1.00		8.44	5.57	0.50		8.92	5.79	0.52		9.60	6.23	0.49		10.36	6.78	0.41
75 (23.9)	63 (17.2)	417	12.16	10.56	1.00	236	7.79	6.26	0.51	232	8.23	6.48	0.53	246	8.87	6.98	0.51	267	9.58	7.61	0.45
	57 (13.9)		11.52	11.52	1.01		7.08	7.08	0.52		7.39	7.39	0.55		7.97	7.97	0.54		8.66	8.66	0.48
	72 (22.2)		14.50	5.90	0.99		9.35	3.79	0.49		9.88	4.01	0.50		10.62	4.30	0.45		11.47	4.65	0.35
	67 (19.4)		13.17	7.58	1.00		8.46	4.68	0.50		8.94	4.90	0.52		9.62	5.27	0.49		10.39	5.71	0.41
	63 (17.2)		12.18	8.91	1.00		7.80	5.37	0.51		8.25	5.59	0.53		8.88	6.02	0.51		9.60	6.55	0.45
80 (26.7)	57 (13.9)	417	10.89	10.84	1.01	236	6.91	6.39	0.52	232	7.30	6.60	0.55	246	7.87	7.12	0.54	267	8.52	7.77	0.49
	72 (22.2)		14.44	7.57	0.99		9.31	4.68	0.49		9.84	4.90	0.50		10.58	5.27	0.45		11.43	5.71	0.35
	67 (19.4)		13.13	9.25	1.00		8.44	5.57	0.50		8.92	5.79	0.52		9.60	6.23	0.49		10.36	6.78	0.41
	63 (17.2)		12.16	10.56	1.00		7.79	6.26	0.51		8.23	6.48	0.53		8.87	6.98	0.51		9.58	7.61	0.45
	57 (13.9)		11.52	11.52	1.01		7.08	7.08	0.52		7.39	7.39	0.55		7.97	7.97	0.54		8.66	8.66	0.48
STAGE 1 – ALL OTHER INDOOR COMBINATIONS																					
75 (23.9)	72 (22.2)	417	14.50	5.90	0.99	250	9.35	3.79	0.49	250	9.88	4.01	0.50	250	10.62	4.30	0.45	267	11.47	4.65	0.35
	67 (19.4)		13.17	7.58	1.00		8.46	4.68	0.50		8.94	4.90	0.52		9.62	5.27	0.49		10.39	5.71	0.41
	63 (17.2)		12.18	8.91	1.00		7.80	5.37	0.51		8.25	5.59	0.53		8.88	6.02	0.51		9.60	6.55	0.45
	57 (13.9)		10.89	10.84	1.01		6.91	6.39	0.52		7.30	6.60	0.55		7.87	7.12	0.54		8.52	7.77	0.49
	72 (22.2)		14.44	7.57	0.99		9.31	4.68	0.49		9.84	4.90	0.50		10.58	5.27	0.45		11.43	5.71	0.35
80 (26.7)	67 (19.4)	417	13.13	9.25	1.00	236	8.44	5.57	0.50	232	8.92	5.79	0.52	246	9.60	6.23	0.49	267	10.36	6.78	0.41
	63 (17.2)		12.16	10.56	1.00		7.79	6.26	0.51		8.23	6.48	0.53		8.87	6.98	0.51		9.58	7.61	0.45
	57 (13.9)		11.52	11.52	1.01		7.08	7.08	0.52		7.39	7.39	0.55		7.97	7.97	0.54		8.66	8.66	0.48
	72 (22.2)		14.50	5.90	0.99		9.35	3.79	0.49		9.88	4.01	0.50		10.62	4.30	0.45		11.47	4.65	0.35
	67 (19.4)		13.17	7.58	1.00		8.46	4.68	0.50		8.94	4.90	0.52		9.62	5.27	0.49		10.39	5.71	0.41

CVA936

	COOLING INDOOR MODEL	CAPACITY	POWER	FURNACE MODEL
A	FCMA-X36***L	1.00	1.00	
	FCMA-X36***L	0.97	0.97	
	FCMA-X60***L	0.99	0.99	
	FCMA-X24***L	0.96	1.01	
	EA-X36L14A*	0.98	1.03	9MA-V0701412**
	EA-X36L17A*	0.97	1.02	9MA-V0601714A**
	EA-X36L17A*	0.98	1.03	9MA-V0801714A**
	EA-X36L17A*	0.98	0.98	9MA-V0801716**
	EA-X36L21A*	0.98	1.03	9MA-V0602120A**
	EA-X36L21A*	0.98	1.03	9MA-V0802120A**
B	EA-X36L21A*	0.98	0.98	9MA-V1002122A**
	EA-X36L21A*	0.96	1.01	9MA-V1002122A**
	EA-X36L21A*	0.96	1.01	9MA-V0801714A**
	EA-X36L21A*	0.97	1.01	9MA-V0602120A**
	EA-X42L21A*	0.97	1.01	9MA-V0802120A**
	EA-X42L21A*	0.97	0.97	9MA-V1002122A**
	EA-X48L17A*	0.98	1.03	9MA-V0601714A**
	EA-X48L21A*	0.98	1.03	9MA-V0801714A**
	EA-X48L17A*	0.98	0.98	9MA-V0801716**
	EA-X48L21A*	0.98	1.03	9MA-V0602120A**
C	EA-X48L21A*	0.98	0.98	9MA-V0802120A**
	EA-X60L21A*	0.99	0.99	9MA-V1002122A**
	EA-X36L17**	0.95	1.05	9MA-V1002122A**
	EA-X36L17**	0.95	1.05	9MA-V0801714A**
	EA-X36L17**	0.95	1.00	9MA-V0801714A**
	EA-X36L17**	0.95	1.00	9MA-V0801716**
	EA-X42L21**	0.96	1.06	9MA-V0602120A**
	EA-X42L21**	0.96	1.01	9MA-V0802120A**
	EA-X42L21**	0.96	1.01	9MA-V0802120A**
	EA-X42L21**	0.97	1.02	9MA-V1002122A**
D	EA-X43L21**	0.98	1.03	9MA-V0602120A**
	EA-X43L21**	0.98	1.03	9MA-V0802120A**
	EA-X43L21**	0.98	0.99	9MA-V1002122A**
	EA-X43L21**	0.97	1.02	9MA-V0602120A**
	EA-X43L21**	0.98	1.03	9MA-V0802120A**
	EA-X43L21**	0.98	0.98	9MA-V1002122A**
	EA-X43L21**	0.99	0.99	9MA-V1002122A**
	EA-X43L21**	0.95	1.05	9MA-V0601714A**
	EA-X43L21**	0.95	1.00	9MA-V0801714A**
	EA-X43L21**	0.95	1.00	9MA-V0801716**
E	EA-X43L21**	0.95	1.00	9MA-V0602120A**
	EA-X43L21**	0.95	1.00	9MA-V1002122A**
	EA-X43L21**	0.96	1.01	9MA-V1002122A**
	EA-X43L21**	0.97	1.02	9MA-V0601714A**
	EA-X43L21**	0.97	1.02	9MA-V0801714A**
	EA-X43L21**	0.97	0.97	9MA-V0801716**
	EA-X43L21**	0.95	1.00	9MA-V0601714A**
	EA-X43L21**	0.96	1.01	9MA-V0801714A**
	EA-X43L21**	0.97	0.97	9MA-V0801716**
	EA-X43L21**	0.95	1.00	9MA-V0602120A**
F	EA-X43L21**	0.96	1.01	9MA-V0801714A**
	EA-X43L21**	0.97	0.97	9MA-V0801716**
	EA-X43L21**	0.95	1.00	9MA-V0602120A**
	EA-X43L21**	0.96	1.01	9MA-V0802120A**
	EA-X43L21**	0.95	1.05	9MA-V0601714A**
	EA-X43L21**	0.96	1.01	9MA-V0801714A**
	EA-X43L21**	0.96	1.01	9MA-V0802120A**
	EA-X43L21**	0.97	1.01	9MA-V0802120A**
	EA-X43L21**	0.97	1.02	9MA-V0802120A**
	EA-X43L21**	0.97	1.02	9MA-V0802120A**
G	EA-X43L21**	0.97	1.01	9MA-V0801716**
	EA-X43L21**	0.97	1.02	9MA-V1002122A**
	EA-X43L21**	0.98	0.99	9MA-V0602120A**
	EA-X43L21**	0.99	0.99	9MA-V0802120A**
	EA-X43L21**	0.97	1.01	9MA-V1002122A**
	EA-X43L21**	0.97	0.97	9MA-V0602120A**
	EA-X43L21**	0.97	0.97	9MA-V0802120A**
	EA-X43L21**	0.97	1.02	9MA-V0801714A**
	EA-X43L21**	0.97	0.97	9MA-V0801716**
	EA-X43L21**	0.95	1.02	9MA-V0801714A**

See notes on page 28

CVA937
DETAILED COOLING CAPACITIES# – EFFICIENCY MODE CONTINUED

EVB AIR F (°C)		CVA937 / FCMA460***L Efficiency Mode Condenser Entering Air Temperature °F (°C)																							
		95 (35)				85 (29.4)				75 (23.9)				65 (18.3)											
		ID SCFM	Capacity MBtuh	Total Sys. KW**	Total Sys. KW**	ID SCFM	Capacity MBtuh	Total Sys. KW**	Total Sys. KW**	ID SCFM	Capacity MBtuh	Total Sys. KW**	Total Sys. KW**	ID SCFM	Capacity MBtuh	Total Sys. KW**	Total Sys. KW**	ID SCFM	Capacity MBtuh	Total Sys. KW**	Total Sys. KW**	ID SCFM	Capacity MBtuh	Total Sys. KW**	Total Sys. KW**
75 (23.9)		72 (22.2)	32.70	13.63	3.49	1050	34.98	14.48	3.05	1050	37.03	15.26	2.59	1050	39.26	16.11	2.21	1050	41.44	16.95	1.86	1050	43.61	17.78	1.54
		67 (19.4)	31.53	19.22	3.08		31.81	19.44	3.03		33.70	20.30	2.58		35.71	21.22	2.21		37.69	22.14	1.87		39.65	23.05	1.56
		63 (17.2)	27.56	22.33	3.44		29.48	23.32	3.02		31.25	24.26	2.58		33.12	25.24	2.21		34.94	26.21	1.88		36.75	27.17	1.58
		57 (13.9)	25.78	25.78	3.41		27.31	27.31	3.00		28.73	28.73	2.56		30.19	30.19	2.21		31.62	31.62	1.89		33.01	33.01	1.61
		72 (22.2)	32.58	18.47	3.49	1050	34.86	19.41	3.05	1050	36.91	20.26	2.59	1050	39.14	21.19	2.21	1050	41.32	22.11	1.86	1050	43.48	23.02	1.54
80 (26.7)		67 (19.4)	31.43	24.01	3.08		31.71	24.30	3.03		33.60	25.24	2.58		35.61	26.24	2.21		37.59	27.23	1.87		39.55	28.22	1.56
		63 (17.2)	27.61	27.02	3.44		29.49	28.13	3.02		31.23	29.15	2.58		33.10	30.22	2.21		34.91	31.27	1.88		36.70	32.31	1.58
		57 (13.9)	27.36	27.36	3.44		28.98	28.98	3.01		30.45	30.45	2.57		32.00	32.00	2.21		33.49	33.49	1.89		34.96	34.96	1.59
		72 (22.2)	22.96	9.72	2.41	900	24.70	10.37	2.11	900	26.36	10.99	1.76	900	28.08	11.65	1.50	900	29.77	12.29	1.25	900	31.45	12.93	1.03
75 (23.9)		67 (19.4)	20.81	13.49	2.42		22.39	14.22	2.13		23.90	14.93	1.79		25.43	15.65	1.54		26.95	16.37	1.30		28.46	17.09	1.08
		63 (17.2)	19.24	16.44	2.42		20.68	17.23	2.14		22.09	18.01	1.80		23.50	18.79	1.56		24.89	19.57	1.34		26.28	20.35	1.13
		57 (13.9)	18.34	18.34	2.42		19.54	19.54	2.15		20.70	20.70	1.82		21.85	21.85	1.58		22.98	22.98	1.37		24.10	24.10	1.17
		72 (22.2)	22.86	13.49	2.41	900	24.60	14.23	2.11	900	26.26	14.93	1.76	900	27.98	15.67	1.50	900	29.67	16.39	1.25	900	31.35	17.12	1.03
80 (26.7)		67 (19.4)	20.74	17.22	2.42		22.31	18.03	2.13		23.83	18.82	1.79		25.36	19.62	1.54		26.87	20.42	1.30		28.38	21.22	1.08
		63 (17.2)	19.57	19.57	2.42		20.83	20.83	2.14		22.16	21.83	1.80		23.54	22.72	1.56		24.92	23.58	1.33		26.29	24.45	1.12
		57 (13.9)	19.53	19.53	2.42		20.79	20.79	2.14		22.01	22.01	1.80		23.22	23.22	1.56		24.42	24.42	1.34		25.59	25.59	1.14
		72 (22.2)	18.16	7.73	1.96	800	19.62	8.28	1.73	800	15.04	6.28	0.87	800	16.16	6.71	0.72	800	17.28	7.14	0.57	800	18.39	7.57	0.43
75 (23.9)		67 (19.4)	16.42	10.82	1.98		17.74	11.45	1.76		13.64	8.56	0.91		14.65	9.05	0.76		15.65	9.54	0.62		16.65	10.04	0.49
		63 (17.2)	15.19	13.25	1.99		16.40	13.94	1.77		12.63	10.35	0.93		13.55	10.90	0.80		14.47	11.44	0.66		15.39	11.99	0.53
		57 (13.9)	14.59	14.59	1.99		15.61	15.61	1.78		11.87	11.87	0.95		12.64	12.64	0.82		13.40	13.40	0.70		14.16	14.16	0.58
		72 (22.2)	18.08	10.84	1.96	800	19.54	11.47	1.73	800	14.98	8.55	0.87	800	16.10	9.05	0.72	800	17.22	9.55	0.57	800	18.33	10.05	0.43
80 (26.7)		67 (19.4)	16.38	13.89	1.98		17.69	14.60	1.75		13.60	10.81	0.91		14.60	11.37	0.76		15.60	11.94	0.62		16.60	12.50	0.49
		63 (17.2)	15.57	15.57	1.99		16.66	16.66	1.77		12.67	12.58	0.93		13.57	13.20	0.79		14.48	13.82	0.66		15.39	14.44	0.53
		57 (13.9)	15.54	15.54	1.99		16.63	16.63	1.77		12.62	12.62	0.93		13.43	13.43	0.80		14.23	14.23	0.67		15.04	15.04	0.54

Operation in this area is restricted to maintain reliable system operation and customer comfort. The system will default to the next available stage
Stage 1 – Compressor speed limited to stage two at 105 and 115 outdoor.

See additional notes on page 28

CVA937

DETAILED COOLING CAPACITIES# – COMFORT + DEHUMIDIFY MODE CONTINUED

EDB °F (°C)	EVAP AIR °F (°C)	CVA937 / FCMA4X60***L Comfort + Dehumidify Mode Condenser Entering Air Temperature °F (°C)																						
		105 (40.5)				95 (35)				85 (29.4)				75 (23.9)				65 (18.3)						
		Capacity MBtuh		ID SCFM	Total Sys. KW	Capacity MBtuh		ID SCFM	Total Sys. KW	Capacity MBtuh		ID SCFM	Total Sys. KW	Capacity MBtuh		ID SCFM	Total Sys. KW	Capacity MBtuh		ID SCFM	Total Sys. KW			
		Total	Sens†			Total	Sens†			Total	Sens†			Total	Sens†			Total	Sens†			Total	Sens†	Total
75 (23.9)	72 (22.2)	812	33.61	13.66	2.96	812	35.51	14.41	2.51	848	37.87	15.36	2.15	888	40.27	16.34	1.81	948	42.86	17.40	1.51			
	67 (19.4)		30.54	17.52	2.94		32.28	18.33	2.50		34.42	19.52	2.15		36.60	20.75	1.83		38.94	22.16	1.53			
	63 (17.2)		28.29	20.54	2.93		29.92	21.40	2.49		31.90	22.77	2.15		33.91	24.19	1.84		36.07	25.89	1.55			
	57 (13.9)		25.29	24.94	2.90		26.74	25.90	2.47		28.50	27.52	2.15		30.29	29.23	1.85		32.24	31.32	1.58			
	72 (22.2)		33.51	17.49	2.96		35.42	18.30	2.51		37.77	19.49	2.15		40.17	20.72	1.81		42.74	22.14	1.51			
80 (26.7)	67 (19.4)	812	30.47	21.31	2.94	812	32.21	22.18	2.50	848	34.35	23.59	2.15	888	36.52	25.07	1.83	948	38.86	26.84	1.53			
	63 (17.2)		28.24	24.31	2.93		29.87	25.23	2.49		31.85	26.83	2.15		33.86	28.50	1.84		36.02	30.55	1.55			
	57 (13.9)		26.63	26.63	2.91		27.94	27.94	2.48		29.75	29.75	2.15		31.61	31.61	1.84		33.74	33.74	1.57			
	72 (22.2)		22.84	9.26	2.06		24.29	9.84	1.72		26.09	10.57	1.47		27.82	11.27	1.23		29.72	12.04	1.01			
	67 (19.4)		20.67	11.68	2.07		21.98	12.30	1.74		23.60	13.23	1.50		25.16	14.10	1.28		26.87	15.10	1.07			
75 (23.9)	63 (17.2)	566	19.09	13.58	2.08	566	20.29	14.24	1.75	600	21.79	15.33	1.52	625	23.23	16.32	1.31	665	24.80	17.51	1.11			
	57 (13.9)		17.03	16.40	2.08		18.10	17.12	1.77		19.44	18.43	1.55		20.71	19.61	1.34		22.12	21.08	1.15			
	72 (22.2)		22.78	11.70	2.06		24.23	12.32	1.72		26.03	13.26	1.47		27.76	14.13	1.23		29.64	15.14	1.01			
	67 (19.4)		20.62	14.10	2.07		21.93	14.77	1.74		23.55	15.90	1.50		25.10	16.93	1.28		26.81	18.18	1.07			
	63 (17.2)		19.06	15.99	2.08		20.27	16.70	1.75		21.76	17.98	1.52		23.20	19.14	1.31		24.77	20.57	1.11			
80 (26.7)	57 (13.9)	17.76	17.76	2.08	18.73	18.73	1.76	20.14	20.14	1.54	21.44	21.44	1.33	22.97	22.97	1.14								
	72 (22.2)	18.14	7.36	1.70	14.63	6.00	0.87	15.69	6.41	0.72	16.75	6.83	0.57	17.81	7.24	0.44								
	67 (19.4)	16.41	9.34	1.72	13.27	7.90	0.91	14.22	8.36	0.76	15.17	8.83	0.63	16.11	9.29	0.50								
	63 (17.2)	15.16	10.91	1.74	12.27	9.39	0.93	13.14	9.90	0.80	14.01	10.41	0.66	14.88	10.91	0.54								
	57 (13.9)	13.54	13.23	1.75	11.20	11.20	0.96	11.91	11.91	0.83	12.61	12.61	0.71	13.31	13.30	0.59								
80 (26.7)	72 (22.2)	500	18.09	9.36	1.70	500	14.58	7.89	0.87	500	15.64	8.36	0.72	500	16.70	8.83	0.57	500	17.75	9.31	0.44			
	67 (19.4)		16.37	11.32	1.72		13.23	9.78	0.91		14.18	10.30	0.76		15.12	10.82	0.63		16.07	11.34	0.50			
	63 (17.2)		15.14	12.88	1.74		12.26	11.27	0.93		13.13	11.83	0.80		14.00	12.39	0.66		14.87	12.96	0.54			
	57 (17.2)		14.21	14.21	1.74		11.88	11.88	0.94		12.62	12.62	0.81		13.36	13.36	0.68		14.09	14.09	0.57			
	57 (13.9)		14.21	14.21	1.74																			
75 (23.9)	72 (22.2)	417	17.38	7.04	1.70	417	12.07	4.96	0.92	STAGE 1 – ALL OTHER INDOOR COMBINATIONS												14.98	6.17	0.52
	67 (19.4)		15.72	8.68	1.72		10.91	5.83	0.95	12.74	5.27	0.79	13.77	5.69	0.66	14.98	6.17	0.52						
	63 (17.2)		14.53	9.98	1.73		10.07	6.52	0.97	11.51	6.14	0.83	12.45	6.65	0.70	13.53	7.24	0.57						
	57 (13.9)		12.94	11.91	1.74		8.96	7.52	0.98	10.63	6.83	0.85	11.49	7.40	0.73	12.49	8.08	0.61						
	72 (22.2)		17.34	8.70	1.70		12.04	5.86	0.92	12.71	6.17	0.79	13.75	6.68	0.66	14.95	7.27	0.52						
80 (26.7)	67 (19.4)	417	15.69	10.34	1.72	417	10.89	6.72	0.95	232	11.49	7.05	0.83	246	12.43	7.63	0.70	267	13.51	8.33	0.57			
	63 (17.2)		14.50	11.63	1.73		10.61	7.73	0.85		11.47	8.38	0.73		12.47	9.17	0.61							
	57 (13.9)		13.22	13.22	1.74		8.95	8.40	0.98		9.44	8.73	0.87		10.21	9.47	0.76		11.09	10.40	0.65			
	72 (22.2)		17.38	7.04	1.70		12.07	4.96	0.92		12.74	5.27	0.79		13.77	5.69	0.66		14.98	6.17	0.52			
	67 (19.4)		15.72	8.68	1.72		10.91	5.83	0.95		11.51	6.14	0.83		12.45	6.65	0.70		13.53	7.24	0.57			
75 (23.9)	63 (17.2)	417	14.53	9.98	1.73	417	10.07	6.52	0.97	232	10.63	6.83	0.85	246	11.49	7.40	0.73	267	12.49	8.08	0.61			
	57 (13.9)		12.94	11.91	1.74		8.96	7.52	0.98		9.45	7.84	0.87		10.21	8.50	0.76		11.10	9.31	0.65			
	72 (22.2)		17.34	8.70	1.70		12.04	5.86	0.92		12.71	6.17	0.79		13.75	6.68	0.66		14.95	7.27	0.52			
	67 (19.4)		15.69	10.34	1.72		10.89	6.72	0.95		11.49	7.05	0.83		12.43	7.63	0.70		13.51	8.33	0.57			
	63 (17.2)		14.50	11.63	1.73		10.05	7.40	0.97		10.61	7.73	0.85		11.47	8.38	0.73		12.47	9.17	0.61			
80 (26.7)	57 (13.9)	417	13.22	13.22	1.74	417	8.95	8.40	0.98	232	9.44	8.73	0.87	246	10.21	9.47	0.76	267	11.09	10.40	0.65			
	72 (22.2)		17.38	7.04	1.70		12.07	4.96	0.92		12.74	5.27	0.79		13.77	5.69	0.66		14.98	6.17	0.52			
	67 (19.4)		15.72	8.68	1.72		10.91	5.83	0.95		11.51	6.14	0.83		12.45	6.65	0.70		13.53	7.24	0.57			
	63 (17.2)		14.53	9.98	1.73		10.07	6.52	0.97		10.63	6.83	0.85		11.49	7.40	0.73		12.49	8.08	0.61			
	57 (13.9)		12.94	11.91	1.74		8.96	7.52	0.98		9.45	7.84	0.87		10.21	8.50	0.76		11.10	9.31	0.65			
75 (23.9)	72 (22.2)	500	18.09	9.36	1.70	500	14.58	7.89	0.87	500	15.64	8.36	0.72	500	16.70	8.83	0.57	500	17.75	9.31	0.44			
	67 (19.4)		16.37	11.32	1.72		13.23	9.78	0.91		14.18	10.30	0.76		15.12	10.82	0.63		16.07	11.34	0.50			
	63 (17.2)		15.14	12.88	1.74		12.26	11.27	0.93		13.13	11.83	0.80		14.00	12.39	0.66		14.87	12.96	0.54			
	57 (17.2)		14.21	14.21	1.74		11.88	11.88	0.94		12.62	12.62	0.81		13.36	13.36	0.68		14.09	14.09	0.57			
	57 (13.9)		14.21	14.21	1.74																			

CVA937

See notes on page 28

DETAILED COOLING CAPACITIES# - EFFICIENCY MODE CONTINUED

EDB °F	EVAR AIR (°C)	CVA948 / FCM4X60***L Efficiency Mode																												
		Condenser Entering Air Temperature °F (°C)																												
		115 (46.1)				105 (40.5)				95 (35)				85 (29.4)				75 (23.9)				65 (18.3)								
EWB (°C)	ID SCF M	Capacity MBTuh		Total Sys. KW**	ID SCF M	Capacity MBTuh		Total Sys. KW**	ID SCF M	Capacity MBTuh		Total Sys. KW**	ID SCF M	Capacity MBTuh		Total Sys. KW**	ID SCF M	Capacity MBTuh		Total Sys. KW**	ID SCF M	Capacity MBTuh		Total Sys. KW**						
		Total	Sens ‡			Total	Sens ‡			Total	Sens ‡			Total	Sens ‡			Total	Sens ‡			Total	Sens ‡		Total	Sens ‡	Total	Sens ‡		
75 (23.9)	72 (22.2)	1400	44.82	18.57	5.82	1400	47.96	19.76	4.88	1400	50.99	20.91	4.29	1400	53.98	22.06	3.74	1400	56.89	23.19	3.23	1400	59.70	24.29	2.75					
	67 (19.4)		40.99	24.95	5.42		43.86	26.26	4.80		46.65	27.54	4.23		49.36	28.80	3.70		52.01	30.04	3.21		54.60	31.27	2.75					
	63 (17.2)		38.13	29.97	5.34		40.79	31.36	4.74		43.37	32.72	4.18		45.91	34.07	3.67		48.37	35.40	3.19		50.78	36.72	2.74					
	57 (13.9)		35.29	35.29	5.26		37.41	37.41	4.66		39.46	39.46	4.12		41.45	41.45	3.62		43.58	43.09	3.16		45.70	44.59	2.73					
	72 (22.2)		44.60	24.79	5.51		47.74	26.09	4.88		50.77	27.36	4.28		53.76	28.62	3.73		56.66	29.86	3.22		59.48	31.07	2.75					
80 (26.7)	67 (19.4)	1400	40.84	31.14	5.42	1400	43.71	32.55	4.80	1400	46.50	33.94	4.23	1400	49.21	35.31	3.70	1400	51.86	36.65	3.20	1400	54.45	37.98	2.75					
	63 (17.2)		38.13	36.06	5.34		40.76	37.59	4.74		43.33	39.07	4.18		45.84	40.54	3.67		48.30	41.98	3.18		50.70	43.40	2.74					
	57 (13.9)		37.36	37.36	5.32		39.59	39.59	4.72		41.72	41.72	4.16		43.81	43.81	3.64		45.84	45.84	3.17		47.82	47.82	2.73					
	STAGE 3																													
	72 (22.2)		29.42	12.62	2.82		31.60	13.43	2.56		33.63	14.20	2.26		35.75	15.00	2.00		37.82	15.78	1.74		39.85	16.55	1.49					
75 (23.9)	67 (19.4)	1200	26.82	17.86	2.80	1200	28.83	18.79	2.56	1200	30.73	19.68	2.27	1200	32.66	20.60	2.02	1200	34.57	21.50	1.77	1200	36.44	22.40	1.52					
	63 (17.2)		24.93	21.96	2.79		26.79	22.99	2.55		28.58	23.99	2.26		30.39	25.00	2.02		32.16	26.00	1.78		33.91	26.99	1.55					
	57 (13.9)		24.03	24.03	2.78		25.61	25.61	2.55		27.12	27.12	2.26		28.62	28.62	2.03		30.11	30.11	1.80		31.55	31.55	1.57					
	72 (22.2)		29.22	17.78	2.81		31.39	18.70	2.55		33.41	19.57	2.25		35.52	20.47	2.00		37.60	21.37	1.74		39.62	22.25	1.48					
	67 (19.4)		26.71	22.96	2.80		28.71	24.01	2.56		30.60	25.01	2.26		32.52	26.03	2.01		34.42	27.05	1.77		36.30	28.05	1.52					
80 (26.7)	63 (17.2)	1200	25.56	25.56	2.80	1200	27.23	27.23	2.55	1200	28.80	28.80	2.26	1200	30.48	30.24	2.02	1200	32.21	31.42	1.78	1200	33.93	32.55	1.55					
	57 (13.9)		25.52	25.52	2.80		27.19	27.19	2.55		28.76	28.76	2.26		30.35	30.35	2.02		31.90	31.90	1.78		33.43	33.43	1.55					
	STAGE 1																													
	72 (22.2)		25.50	10.99	2.21		27.46	11.73	2.07		29.62	8.56	0.95		31.88	7.34	0.84		34.14	6.12	0.72		36.40	4.90	0.60	38.66	3.68	0.50		
	67 (19.4)		23.22	15.65	2.21		25.04	16.51	2.08		27.88	12.38	0.98		30.72	11.16	0.88		33.56	9.94	0.76		36.34	8.72	0.64	39.12	7.50	0.52		
75 (23.9)	63 (17.2)	1100	21.57	19.30	2.21	1100	23.24	20.26	2.08	1100	25.01	22.02	1.90	1100	26.78	23.79	1.72	1100	28.55	25.52	1.55	1100	30.32	27.29	1.32					
	57 (13.9)		20.89	20.89	2.20		22.32	22.32	2.08		24.09	24.09	1.90		25.86	25.86	1.72		27.63	27.63	1.55		29.40	29.40	1.32					
	72 (22.2)		25.31	15.59	2.21		27.26	16.44	2.06		29.42	12.31	0.95		31.64	11.09	0.84		33.86	9.86	0.71		36.08	8.64	0.60	38.30	7.42	0.50		
	67 (19.4)		23.13	20.20	2.21		24.93	21.18	2.07		27.82	16.09	0.98		30.64	14.86	0.88		33.39	13.63	0.76		36.10	12.41	0.64	38.81	11.19	0.52		
	63 (17.2)		22.25	22.25	2.21		23.77	23.77	2.08		27.35	17.35	0.98		30.11	18.41	0.89		32.83	17.17	0.78		35.57	15.93	0.66	38.03	14.75	0.52		
80 (26.7)	57 (13.9)	1100	22.21	22.21	2.21	23.73	23.73	2.08	1100	25.30	25.30	2.08	1100	27.07	27.07	1.90	1100	28.84	28.84	1.72	1100	30.61	30.61	1.55						
	72 (22.2)		25.50	10.99	2.21	27.46	11.73	2.07		29.62	8.56	0.95		31.88	7.34	0.84		34.14	6.12	0.72		36.40	4.90	0.60	38.66	3.68	0.50			
	67 (19.4)		23.22	15.65	2.21	25.04	16.51	2.08		27.88	12.38	0.98		30.72	11.16	0.88		33.56	9.94	0.76		36.34	8.72	0.64	39.12	7.50	0.52			
	63 (17.2)		21.57	19.30	2.21	23.24	20.26	2.08		25.01	22.02	1.90		26.78	23.79	1.72		28.55	25.52	1.55		30.32	27.29	1.32	32.09	24.81	1.15			
	57 (13.9)		20.89	20.89	2.20	22.32	22.32	2.08		24.09	24.09	1.90		25.86	25.86	1.72		27.63	27.63	1.55		29.40	29.40	1.32	31.17	28.01	1.15			

Operation in this area is restricted to maintain reliable system operation and customer comfort. The system will default to the next available stage

Stage 1 – Compressor speed limited to stage two at 105 and 115 outdoor.

See additional notes on page 28

CVA948 / FCMA460***L Comfort + Dehumidify Mode CONTINUED

DETAILED COOLING CAPACITIES# – COMFORT + DEHUMIDIFY MODE CONTINUED

EDB °F (°C)	EVAR AIR °F (°C)	CVA948 / FCMA460***L Comfort + Dehumidify Mode Condenser Entering Air Temperature °F (°C)																								
		105 (40.5)					95 (35)					85 (29.4)					75 (23.9)					65 (18.3)				
		ID SCFM	Capacity MBtuh Total	Sens†	Total Sys. KW	ID SCFM	Capacity MBtuh Total	Sens†	Total Sys. KW	ID SCFM	Capacity MBtuh Total	Sens†	Total Sys. KW	ID SCFM	Capacity MBtuh Total	Sens†	Total Sys. KW	ID SCFM	Capacity MBtuh Total	Sens†	Total Sys. KW					
75 (23.9)	72 (22.2)	1110	46.42	18.85	4.71	1184	49.80	20.23	4.17	1247	53.09	21.57	3.65	1330	56.46	22.96	3.19	1226	58.44	23.68	2.67					
	67 (19.4)		42.40	24.08	4.63		45.50	25.89	4.11		48.51	27.62	3.61		51.61	29.50	3.17		53.38	29.85	2.67					
	63 (17.2)		39.38	28.15	4.57		42.27	30.30	4.06		45.08	32.33	3.58		47.99	34.60	3.15		49.62	34.64	2.66					
	57 (13.9)		35.31	34.09	4.47		37.94	36.72	3.98		40.49	39.19	3.53		43.14	41.99	3.12		44.52	41.65	2.64					
	72 (22.2)		46.26	23.95	4.71		49.62	25.75	4.16		52.90	27.46	3.65		56.25	29.32	3.19		58.25	29.68	2.67					
80 (26.7)	67 (19.4)	1110	42.29	29.13	4.63	1184	45.38	31.35	4.10	1247	48.38	33.45	3.61	1330	51.47	35.79	3.17	1226	53.26	35.77	2.67					
	63 (17.2)		39.31	33.18	4.57		42.20	35.74	4.06		45.01	38.14	3.58		47.91	40.87	3.15		49.54	40.54	2.66					
	57 (13.9)		36.80	36.80	4.51		39.58	39.58	4.01		42.24	42.24	3.55		45.10	45.10	3.13		45.76	45.76	2.65					
	72 (22.2)		29.62	12.03	2.44		801	31.87	12.96		2.16	842	34.08		13.86	1.91	887		36.31	14.77	1.66	1001	38.96	15.92	1.43	
	67 (19.4)		26.97	15.41	2.44			29.06	16.68		2.16		31.09		17.85	1.92			33.14	19.06	1.68		35.59	20.85	1.46	
63 (17.2)	24.98	18.04	2.43	26.95	19.58	2.15		28.84	20.96	1.92	30.75		22.40	1.70	33.06	24.69		1.49								
57 (13.9)	22.33	21.88	2.41	24.13	23.80	2.14		25.84	25.48	1.92	27.58		27.24	1.71	29.92	29.92		1.51								
72 (22.2)	29.51	15.35	2.44	31.74	16.60	2.15		33.93	17.76	1.91	36.15		18.96	1.66	38.77	20.72		1.43								
80 (26.7)	67 (19.4)	744	26.90	18.70	2.44	801	28.98	20.29	2.15	842	31.00	21.72	1.92	887	33.04	23.21	1.68	1001	35.47	25.60	1.46					
	63 (17.2)		34.45	25.97	4.20		26.90	23.17	2.15		28.79	24.81	1.92		30.70	26.53	1.70		33.02	29.42	1.49					
	57 (13.9)		30.79	29.76	4.10		33.37	32.41	3.78		35.77	34.73	3.46		38.24	37.17	3.15		41.59	41.26	2.86					
	72 (22.2)		25.60	10.40	1.99		500	18.27	7.44		0.93	500	19.44		7.91	0.83	508		20.67	8.39	0.71	534	22.04	8.96	0.56	
	67 (19.4)		23.27	13.31	1.99			16.64	9.65		0.95		17.72		10.17	0.86			18.84	10.76	0.75		20.11	11.51	0.61	
63 (17.2)	21.53	15.58	1.99	15.45	11.39	0.97		16.45	11.96	0.88	17.49		12.62	0.77	18.68	13.53		0.65								
57 (13.9)	19.26	18.92	1.98	13.90	13.90	0.98		14.76	14.58	0.90	15.69		15.35	0.81	16.77	16.48		0.70								
72 (22.2)	25.60	10.40	1.99	18.26	7.44	0.93		19.44	7.91	0.83	20.67		8.39	0.71	22.04	8.96		0.56								
80 (26.7)	67 (19.4)	662	23.27	13.31	1.99	500	16.64	9.65	0.95	500	17.72	10.17	0.86	508	18.84	10.76	0.75	534	20.11	11.51	0.61					
	63 (17.2)		21.53	15.58	1.99		15.45	11.39	0.97		16.45	11.96	0.88		17.49	12.62	0.77		18.68	13.53	0.65					
	57 (13.9)		19.26	18.92	1.98		13.90	13.90	0.98		14.76	14.58	0.90		15.69	15.35	0.81		16.77	16.48	0.70					
	72 (22.2)		25.60	10.40	1.99		18.26	7.44	0.93		19.44	7.91	0.83		20.67	8.39	0.71		22.04	8.96	0.56					
	67 (19.4)		23.27	13.31	1.99		16.64	9.65	0.95		17.72	10.17	0.86		18.84	10.76	0.75		20.11	11.51	0.61					
75 (23.9)	63 (17.2)	662	21.53	15.58	1.99	457	15.45	11.39	0.97	482	16.45	11.96	0.88	508	17.49	12.62	0.77	534	18.68	13.53	0.65					
	57 (13.9)		19.26	18.92	1.98		13.90	13.23	0.98		14.63	14.27	0.90		15.69	15.35	0.81		16.77	16.48	0.70					
	72 (22.2)		25.60	10.40	1.99		17.95	7.29	0.93		19.30	7.84	0.83		20.67	8.39	0.71		22.04	8.96	0.56					
	67 (19.4)		23.27	13.31	1.99		16.36	9.31	0.95		17.59	10.02	0.86		18.84	10.76	0.75		20.11	11.51	0.61					
	63 (17.2)		21.53	15.58	1.99		15.18	10.89	0.97		16.33	11.74	0.88		17.49	12.62	0.77		18.68	13.53	0.65					
80 (26.7)	57 (13.9)	662	19.26	18.92	1.98	457	13.59	13.23	0.98	482	14.63	14.27	0.90	508	15.69	15.35	0.81	534	16.77	16.48	0.70					
	72 (22.2)		25.60	10.40	1.99		17.95	7.29	0.93		19.30	7.84	0.83		20.67	8.39	0.71		22.04	8.96	0.56					
	67 (19.4)		23.27	13.31	1.99		16.36	9.31	0.95		17.59	10.02	0.86		18.84	10.76	0.75		20.11	11.51	0.61					
	63 (17.2)		21.53	15.58	1.99		15.18	10.89	0.97		16.33	11.74	0.88		17.49	12.62	0.77		18.68	13.53	0.65					
	57 (13.9)		19.26	18.92	1.98		13.59	13.23	0.98		14.63	14.27	0.90		15.69	15.35	0.81		16.77	16.48	0.70					
75 (23.9)	72 (22.2)	662	25.60	10.40	1.99	457	17.95	7.29	0.93	482	19.30	7.84	0.83	508	20.67	8.39	0.71	534	22.04	8.96	0.56					
	67 (19.4)		23.27	13.31	1.99		16.36	9.31	0.95		17.59	10.02	0.86		18.84	10.76	0.75		20.11	11.51	0.61					
	63 (17.2)		21.53	15.58	1.99		15.18	10.89	0.97		16.33	11.74	0.88		17.49	12.62	0.77		18.68	13.53	0.65					
	57 (13.9)		19.26	18.92	1.98		13.59	13.23	0.98		14.63	14.27	0.90		15.69	15.35	0.81		16.77	16.48	0.70					
	72 (22.2)		25.60	10.40	1.99		17.95	7.29	0.93		19.30	7.84	0.83		20.67	8.39	0.71		22.04	8.96	0.56					
80 (26.7)	67 (19.4)	662	23.27	13.31	1.99	457	16.36	9.31	0.95	482	17.59	10.02	0.86	508	18.84	10.76	0.75	534	20.11	11.51	0.61					
	63 (17.2)		21.53	15.58	1.99		15.18	10.89	0.97		16.33	11.74	0.88		17.49	12.62	0.77		18.68	13.53	0.65					
	57 (13.9)		19.26	18.92	1.98		13.59	13.23	0.98		14.63	14.27	0.90		15.69	15.35	0.81		16.77	16.48	0.70					
	72 (22.2)		25.60	10.40	1.99		17.95	7.29	0.93		19.30	7.84	0.83		20.67	8.39	0.71		22.04	8.96	0.56					
	67 (19.4)		23.27	13.31	1.99		16.36	9.31	0.95		17.59	10.02	0.86		18.84	10.76	0.75		20.11	11.51	0.61					
75 (23.9)	63 (17.2)	662	21.53	15.58	1.99	457	15.18	10.89	0.97	482	16.33	11.74	0.88	508	17.49	12.62	0.77	534	18.68	13.53	0.65					
	57 (13.9)		19.26	18.92	1.98		13.59	13.23	0.98		14.63	14.27	0.90		15.69	15.35	0.81		16.77	16.48	0.70					
	72 (22.2)		25.60	10.40	1.99		17.95	7.29	0.93		19.30	7.84	0.83		20.67	8.39	0.71		22.04	8.96	0.56					
	67 (19.4)		23.27	13.31	1.99		16.36	9.31	0.95		17.59	10.02	0.86		18.84	10.76	0.75		20.11	11.51	0.61					
	63 (17.2)		21.53	15.58	1.99		15.18	10.89	0.97		16.33	11.74	0.88		17.49	12.62	0.77		18.68	13.53	0.65					
80 (26.7)	57 (13.9)	662	19.26	18.92	1.98	457	13.59	13.23	0.98	482	14.63	14.27	0.90	508	15.69	15.35	0.81	534	16.77	16.48	0.70					
	72 (22.2)		25.60	10.40	1.99		17.95	7.29	0.93		19.30	7.84	0.83		20.67	8.39	0.71		22.04	8.96	0.56					
	67 (19.4)		23.27	13.31	1.99		16.36	9.31	0.95		17.59	10.02	0.86		18.84	10.76	0.75		20.11	11.51	0.61					
	63 (17.2)		21.53	15.58	1.99		15.18	10.89	0.97		16.33	11.74	0.88		17.49	12.62	0.77		18.68	13.53	0.65					
	57 (13.9)		19.26	18.92	1.98		13.59	13.23	0.98		14.63	14.27	0.90		15.69	15.35	0.81		16.77	16.48	0.70					

DETAILED COOLING CAPACITIES# – EFFICIENCY MODE & COMFORT + DEHUMIDIFY MODE CONTINUED

CVA948

COOLING INDOOR MODEL	2-STAGE (Hi-Stage 5, Lo-Stage 2)				FURNACE MODEL
	COOLING INDOOR MODEL	HIGH SPEED CAP.	POWER	LOW SPEED CAP.	
FVM4X60***L	FVM4X60***L	1.00	1.00	1.00	
FVM4X48***L	FVM4X48***L	0.99	0.99	0.99	
EA*4X48L17A*	EA*4X48L17A*	0.98	1.05	0.97	*9MX*0801716A**
EA*4X48L21A*	EA*4X48L21A*	0.96	1.00	0.98	*9MX*1002120A**
EA*4X60L21A*	EA*4X60L21A*	0.99	1.04	0.99	*9MX*1002120A**
EA*4X60L21A*	EA*4X60L21A*	0.99	1.04	0.99	*9MX*1002120A**
EA*4X60L24A*	EA*4X60L24A*	0.99	1.04	0.99	*9MX*1202422A**
ENH4X48L21**	ENH4X48L21**	0.97	1.01	0.96	*9MX*0802120A**
ENH4X48L21**	ENH4X48L21**	0.97	1.01	0.99	*9MX*1002120A**
EN(A,D,W)4X48L21**	EN(A,D,W)4X48L21**	0.97	1.01	0.96	*9MX*0802120A**
EHDA4X48AAL	EHDA4X48AAL	0.97	1.06	0.97	*9MX*0801716A**
EHDA4X48AAL	EHDA4X48AAL	0.97	1.01	0.96	*9MX*0802120A**
EHDA4X48AAL	EHDA4X48AAL	0.97	1.01	0.99	*9MX*1002120A**
EHDA4X60AAL	EHDA4X60AAL	0.99	0.99	1.00	*9MX*1002120A**

See notes on page 28

COOLING INDOOR MODEL	CAPACITY	POWER	FURNACE MODEL
FCM4X60***L	1.00	1.00	
FCM4X48***L	0.98	0.98	
EA*4X48L17A*	0.97	1.01	*8MV*0901716**
EA*4X48L21A*	0.96	1.05	*9MA*0602120A**
EA*4X48L21A*	0.97	1.01	*9MA*0802120A**
EA*4X48L21A*	0.97	1.01	*9MA*1002122A**
EA*4X48L21A*	0.97	1.01	*8MV*1102120**
EA*4X48L21A*	0.97	1.01	*9MA*1202422A**
EA*4X48L24A*	0.97	1.01	*8MV*1352422**
EA*4X60L21A*	0.98	1.08	*9MA*0602120A**
EA*4X60L21A*	0.99	1.04	*9MA*0802120A**
EA*4X60L21A*	0.99	0.99	*9MA*1002122A**
EA*4X60L21A*	0.99	0.99	*8MV*1102120**
EA*4X60L24A*	0.99	1.04	*9MA*1202422A**
EA*4X60L24A*	0.99	0.99	*8MV*1352422**
ENH4X48L21**	0.97	1.06	*9MA*0602120A**
ENH4X48L21**	0.97	1.06	*9MA*0802120A**
ENH4X48L21**	0.97	1.01	*9MA*1002122A**
ENH4X48L21**	0.97	1.01	*8MV*1102120**
ENH4X60L24**	0.99	1.06	*9MA*1202422A**
ENH4X60L24**	0.99	1.04	*9MA*1352422**
ENH4X61L24**	0.99	1.04	*8MV*1352422**
ENH4X61L24**	1.00	1.05	*8MV*1352422**
EN(A,D,W)4X48L21**	0.97	1.06	*9MA*0602120A**
EN(A,D,W)4X48L21**	0.97	1.01	*9MA*0802120A**
EN(A,D,W)4X48L21**	0.97	1.01	*9MA*1002122A**
EN(A,D,W)4X48L21**	0.97	1.01	*8MV*1102120**
EN(A,D)4X48L24**	0.97	1.01	*9MA*1202422A**
EN(A,D)4X48L24**	0.98	1.03	*8MV*1352422**
EN(A,D,W)4X60L24**	0.99	1.04	*9MA*1202422A**
EN(A,D,W)4X60L24**	0.99	0.99	*8MV*1352422**
EN(A,D,W)4X60L24**	0.99	0.99	*9MA*1002122A**
EN(A,D)4X61L24**	1.00	1.05	*9MA*1202422A**
EN(A,D)4X61L24**	1.00	1.00	*8MV*1352422**
EHDA4X48AAL	0.97	1.06	*9MA*0602120A**
EHDA4X48AAL	0.98	1.03	*9MA*0802120A**
EHDA4X48AAL	0.98	1.03	*9MA*1002122A**
EHDA4X48AAL	0.98	1.03	*9MA*1202422A**
EHDA4X48AAL	0.98	1.03	*8MV*0901716**
EHDA4X48AAL	0.98	1.03	*8MV*1102120**
EHDA4X48AAL	0.98	0.98	*8MV*1352422**
EHDA4X60AAL	0.99	1.04	*9MA*0602120A**
EHDA4X60AAL	0.99	0.99	*9MA*0802120A**
EHDA4X60AAL	0.99	0.99	*9MA*1002122A**
EHDA4X60AAL	0.99	0.99	*9MA*1202422A**
EHDA4X60AAL	0.99	0.99	*8MV*0901716**
EHDA4X60AAL	1.00	1.00	*8MV*1102120**
EHDA4X60AAL	1.00	1.00	*8MV*1352422**

CVA949
DETAILED COOLING CAPACITIES# – EFFICIENCY MODE CONTINUED

EDB °F (°C)	EVP. AIR	CVA960 / FCMA60***L Efficiency Mode Condenser Entering Air Temperature °F (°C)												75 (23.9)												65 (18.3)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
		115 (46.1)						105 (40.5)						95 (35)						85 (29.4)						75 (23.9)						65 (18.3)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
		ID SCF M	Capacity MBtuh	Total Sens. KW**	ID SCF M	Capacity MBtuh	Total Sens. KW**	ID SCF M	Capacity MBtuh	Total Sens. KW**	ID SCF M	Capacity MBtuh	Total Sens. KW**	ID SCF M	Capacity MBtuh	Total Sens. KW**	ID SCF M	Capacity MBtuh	Total Sens. KW**	ID SCF M	Capacity MBtuh	Total Sens. KW**	ID SCF M	Capacity MBtuh	Total Sens. KW**	ID SCF M	Capacity MBtuh	Total Sens. KW**																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
75 (23.9)	72(22.2)	43.98	18.09	5.07	47.11	19.28	4.34	50.17	20.46	3.71	53.15	21.62	3.16	56.08	22.77	2.69	58.96	23.91	2.29	1200	43.98	18.09	5.07	47.11	19.28	4.34	50.17	20.46	3.71	53.15	21.62	3.16	56.08	22.77	2.69	58.96	23.91	2.29	1200	43.98	18.09	5.07	47.11	19.28	4.34	50.17	20.46	3.71	53.15	21.62	3.16	56.08	22.77	2.69	58.96	23.91	2.29																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
	67(19.4)	39.97	16.09	4.99	42.83	17.28	4.27	45.61	18.48	3.64	48.30	19.67	3.10	50.95	20.87	2.63	53.57	22.07	2.16		56.28	23.26	2.16	59.00	24.45	1.95	61.71	25.64	1.77	64.42	26.83	1.59	67.13	28.02	1.43	69.84	29.21	1.27		72.55	30.40	1.15	75.26	31.59	0.97	77.97	32.78	0.79	80.68	33.97	0.67	83.39	35.16	0.49	86.10	36.35	0.31	88.81	37.54	0.13	91.52	38.73	-0.05	94.23	39.92	-0.23	96.94	41.11	-0.41	99.65	42.30	-0.59	102.36	43.49	-0.77	105.07	44.68	-0.95	107.78	45.87	-1.13	110.49	47.06	-1.31	113.20	48.25	-1.49	115.91	49.44	-1.67	118.62	50.63	-1.85	121.33	51.82	-2.03	124.04	53.01	-2.21	126.75	54.20	-2.39	129.46	55.39	-2.57	132.17	56.58	-2.75	134.88	57.77	-2.93	137.59	58.96	-3.11	140.30	60.15	-3.29	143.01	61.34	-3.47	145.72	62.53	-3.65	148.43	63.72	-3.83	151.14	64.91	-4.01	153.85	66.10	-4.19	156.56	67.29	-4.37	159.27	68.48	-4.55	161.98	69.67	-4.73	164.69	70.86	-4.91	167.40	72.05	-5.09	170.11	73.24	-5.27	172.82	74.43	-5.45	175.53	75.62	-5.63	178.24	76.81	-5.81	180.95	78.00	-5.99	183.66	79.19	-6.17	186.37	80.38	-6.35	189.08	81.57	-6.53	191.79	82.76	-6.71	194.50	83.95	-6.89	197.21	85.14	-7.07	199.92	86.33	-7.25	202.63	87.52	-7.43	205.34	88.71	-7.61	208.05	89.90	-7.79	210.76	91.09	-7.97	213.47	92.28	-8.15	216.18	93.47	-8.33	218.89	94.66	-8.51	221.60	95.85	-8.69	224.31	97.04	-8.87	227.02	98.23	-9.05	229.73	99.42	-9.23	232.44	100.61	-9.41	235.15	101.80	-9.59	237.86	102.99	-9.77	240.57	104.18	-9.95	243.28	105.37	-10.13	246.00	106.56	-10.31	248.71	107.75	-10.49	251.42	108.94	-10.67	254.13	110.13	-10.85	256.84	111.32	-11.03	259.55	112.51	-11.21	262.26	113.70	-11.39	264.97	114.89	-11.57	267.68	116.08	-11.75	270.39	117.27	-11.93	273.10	118.46	-12.11	275.81	119.65	-12.29	278.52	120.84	-12.47	281.23	122.03	-12.65	283.94	123.22	-12.83	286.65	124.41	-13.01	289.36	125.60	-13.19	292.07	126.79	-13.37	294.78	127.98	-13.55	297.49	129.17	-13.73	300.20	130.36	-13.91	302.91	131.55	-14.09	305.62	132.74	-14.27	308.33	133.93	-14.45	311.04	135.12	-14.63	313.75	136.31	-14.81	316.46	137.50	-15.00	319.17	138.69	-15.18	321.88	139.88	-15.36	324.59	141.07	-15.54	327.30	142.26	-15.72	330.01	143.45	-15.90	332.72	144.64	-16.08	335.43	145.83	-16.26	338.14	147.02	-16.44	340.85	148.21	-16.62	343.56	149.40	-16.80	346.27	150.59	-16.98	348.98	151.78	-17.16	351.69	152.97	-17.34	354.40	154.16	-17.52	357.11	155.35	-17.70	359.82	156.54	-17.88	362.53	157.73	-18.06	365.24	158.92	-18.24	367.95	160.11	-18.42	370.66	161.30	-18.60	373.37	162.49	-18.78	376.08	163.68	-18.96	378.79	164.87	-19.14	381.50	166.06	-19.32	384.21	167.25	-19.50	386.92	168.44	-19.68	389.63	169.63	-19.86	392.34	170.82	-20.04	395.05	172.01	-20.22	397.76	173.20	-20.40	400.47	174.39	-20.58	403.18	175.58	-20.76	405.89	176.77	-20.94	408.60	177.96	-21.12	411.31	179.15	-21.30	414.02	180.34	-21.48	416.73	181.53	-21.66	419.44	182.72	-21.84	422.15	183.91	-22.02	424.86	185.10	-22.20	427.57	186.29	-22.38	430.28	187.48	-22.56	432.99	188.67	-22.74	435.70	189.86	-22.92	438.41	191.05	-23.10	441.12	192.24	-23.28	443.83	193.43	-23.46	446.54	194.62	-23.64	449.25	195.81	-23.82	451.96	197.00	-24.00	454.67	198.19	-24.18	457.38	199.38	-24.36	460.09	200.57	-24.54	462.80	201.76	-24.72	465.51	202.95	-24.90	468.22	204.14	-25.08	470.93	205.33	-25.26	473.64	206.52	-25.44	476.35	207.71	-25.62	479.06	208.90	-25.80	481.77	210.09	-25.98	484.48	211.28	-26.16	487.19	212.47	-26.34	489.90	213.66	-26.52	492.61	214.85	-26.70	495.32	216.04	-26.88	498.03	217.23	-27.06	500.74	218.42	-27.24	503.45	219.61	-27.42	506.16	220.80	-27.60	508.87	221.99	-27.78	511.58	223.18	-27.96	514.29	224.37	-28.14	517.00	225.56	-28.32	519.71	226.75	-28.50	522.42	227.94	-28.68	525.13	229.13	-28.86	527.84	230.32	-29.04	530.55	231.51	-29.22	533.26	232.70	-29.40	535.97	233.89	-29.58	538.68	235.08	-29.76	541.39	236.27	-29.94	544.10	237.46	-30.12	546.81	238.65	-30.30	549.52	239.84	-30.48	552.23	241.03	-30.66	554.94	242.22	-30.84	557.65	243.41	-31.02	560.36	244.60	-31.20	563.07	245.79	-31.38	565.78	246.98	-31.56	568.49	248.17	-31.74	571.20	249.36	-31.92	573.91	250.55	-32.10	576.62	251.74	-32.28	579.33	252.93	-32.46	582.04	254.12	-32.64	584.75	255.31	-32.82	587.46	256.50	-33.00	590.17	257.69	-33.18	592.88	258.88	-33.36	595.59	260.07	-33.54	598.30	261.26	-33.72	601.01	262.45	-33.90	603.72	263.64	-34.08	606.43	264.83	-34.26	609.14	266.02	-34.44	611.85	267.21	-34.62	614.56	268.40	-34.80	617.27	269.59	-34.98	620.00	270.78	-35.16	622.71	271.97	-35.34	625.42	273.16	-35.52	628.13	274.35	-35.70	630.84	275.54	-35.88	633.55	276.73	-36.06	636.26	277.92	-36.24	638.97	279.11	-36.42	641.68	280.30	-36.60	644.39	281.49	-36.78	647.10	282.68	-36.96	649.81	283.87	-37.14	652.52	285.06	-37.32	655.23	286.25	-37.50	657.94	287.44	-37.68	660.65	288.63	-37.86	663.36	289.82	-38.04	666.07	291.01	-38.22	668.78	292.20	-38.40	671.49	293.39	-38.58	674.20	294.58	-38.76	676.91	295.77	-38.94	679.62	296.96	-39.12	682.33	298.15	-39.30	685.04	299.34	-39.48	687.75	300.53	-39.66	690.46	301.72	-39.84	693.17	302.91	-40.02	695.88	304.10	-40.20	698.59	305.29	-40.38	701.30	306.48	-40.56	704.01	307.67	-40.74	706.72	308.86	-40.92	709.43	310.05	-41.10	712.14	311.24	-41.28	714.85	312.43	-41.46	717.56	313.62	-41.64	720.27	314.81	-41.82	722.98	316.00	-42.00	725.69	317.19	-42.18	728.40	318.38	-42.36	731.11	319.57	-42.54	733.82	320.76	-42.72	736.53	321.95	-42.90	739.24	323.14	-43.08	741.95	324.33	-43.26	744.66	325.52	-43.44	747.37	326.71	-43.62	750.08	327.90	-43.80	752.79	329.09	-43.98	755.50	330.28	-44.16	758.21	331.47	-44.34	760.92	332.66	-44.52	763.63	333.85	-44.70	766.34	335.04	-44.88	769.05	336.23	-45.06	771.76	337.42	-45.24	774.47	338.61	-45.42	777.18	339.80	-45.60	779.89	340.99	-45.78	782.60	342.18	-45.96	785.31	343.37	-46.14	788.02	344.56	-46.32	790.73	345.75	-46.50	793.44	346.94	-46.68	796.15	348.13	-46.86	798.86	349.32	-47.04	801.57	350.51	-47.22	804.28	351.70	-47.40	806.99	352.89	-47.58	809.70	354.08	-47.76	812.41	355.27	-47.94	815.12	356.46	-48.12	817.83	357.65	-48.30	820.54	358.84	-48.48	823.25	360.03	-48.66	825.96	361.22	-48.84	828.67	362.41	-49.02	831.38	363.60	-49.20	834.09	364.79	-49.38	836.80	365.98	-49.56	839.51	367.17	-49.74	842.22	368.36	-49.92	844.93	369.55	-50.10	847.64	370.74	-50.28	850.35	371.93	-50.46	853.06	373.12	-50.64	855.77	374.31	-50.82	858.48	375.50	-51.00	861.19	376.69	-51.18	863.90	377.88	-51.36	866.61	379.07	-51.54	869.32	380.26	-51.72	872.03	381.45	-51.90	874.74	382.64	-52.08	877.45	383.83	-52.26	880.16	385.02	-52.44	882.87	386.21	-52.62	885.58	387.40	-52.80	888.29	388.59	-52.98	891.00	389.78	-53.16	893.71	390.97	-53.34	896.42	392.16	-53.52	899.13	393.35	-53.70	901.84	394.54	-53.88	904.55	395.73	-54.06	907.26	396.92	-54.24	910.00	398.11	-54.42	912.71	399.30	-54.60	915.42	400.49	-54.78	918.13	401.68	-54.96	920.84	402.87	-55.14	923.55	404.06	-55.32	926.26	405.25	-55.50	928.97	406.44	-55.68	931.68	407.63	-55.86	934.39	408.82	-56.04	937.10	410.01	-56.22	939.81	411.20	-56.40	942.52	412.39	-56.58	945.23	413.58	-56.76	947.94	414.77	-56.94	950.65	415.96	-57.12	953.36	417.15	-57.30	956.07	418.34	-57.48	958.78	419.53	-57.66	961.49	420.72	-57.84	964.20	421.91	-58.02	966.91	423.10	-58.20	969.62	424.29	-58.38	972.33	425.48	-58.56	975.04	426.67	-58.74	977.75	427.86	-58.92	980.46	429.05	-59.10	983.17	430.24	-59.28	985.88	431.43	-59.46	988.59	432.62	-59.64	991.30	433.81	-59.82	994.01	435.00	-60.00	996.72	436.19	-60.18	999.43	437.38	-60.36	1002.14	438.57	-60.54	1004.85	439.76	-60.7

DETAILED COOLING CAPACITIES# – EFFICIENCY MODE & COMFORT + DEHUMIDIFY MODE CONTINUED

CVA949

COOLING INDOOR MODEL	CAPACITY	POWER	FURNACE MODEL
FCM4X60**L	1.00	1.00	
FCM4X48**L	0.98	0.98	
EA*4X48L21A*	0.95	1.01	*9MA*0602120A**
EA*4X48L21A*	0.99	1.06	*8MV*0902116**
EA*4X48L21A*	0.99	1.03	*8MV*1102122**
EA*4X48L24A*	0.96	0.98	*9MA*0602120A**
EA*4X48L24A*	0.96	0.98	*9MA*1002122A**
EA*4X48L24A*	0.96	0.98	*9MA*1202422A**
EA*4X48L24A*	0.98	1.00	*8MV*1352422B*
EA*4X48L24A*	0.99	1.06	*9MV*1202422A**
EA*4X60L21A*	0.97	1.03	*9MA*0602120A**
EA*4X60L21A*	0.99	1.01	*8MV*0902116**
EA*4X60L21A*	0.99	1.06	*9MV*0602120A**
EA*4X60L21A*	1.01	1.08	*9MV*1002120A**
EA*4X60L21A*	0.99	1.01	*8MV*1102122**
EA*4X60L24A*	0.98	0.98	*9MA*0602120A**
EA*4X60L24A*	0.98	0.98	*9MA*1002122A**
EA*4X60L24A*	0.98	0.98	*9MA*1202422A**
EA*4X60L24A*	1.00	1.02	*8MV*1352422B*
EA*4X60L24A*	0.99	1.01	*9MV*1202422A**
EA*4X61L24A*	1.03	1.03	*8MV*1352422B*
EA*4X61L24A*	1.01	1.01	*9MA*1202422A**
ENH4X48L21**	1.00	1.07	*8MV*0902116**
ENH4X48L21**	0.99	1.06	*8MV*1102122**
ENH4X60L24**	1.00	1.02	*8MV*1352422B*
ENH4X60L24**	0.99	1.03	*9MV*1202422A**
ENH4X61L24**	1.00	1.02	*8MV*1352422B*
ENH4X61L24**	1.01	1.08	*9MV*1202422A**
EN(A,D,W)4X48L21**	0.96	1.02	*9MA*0602120A**
EN(A,D,W)4X48L21**	0.99	1.06	*8MV*0902116**
EN(A,D,W)4X48L21**	0.99	1.03	*8MV*1102122**
EN(A,D)4X48L24**	0.99	1.03	*8MV*1352422B*
EN(A,D)4X48L24**	0.99	1.06	*9MV*1202422A**
EN(A,D,W)4X60L24**	0.97	0.97	*9MA*0602120A**
EN(A,D,W)4X60L24**	0.98	0.98	*9MA*1002122A**
EN(A,D,W)4X60L24**	0.98	0.98	*9MA*1202422A**
EN(A,D,W)4X60L24**	1.00	1.02	*8MV*1352422B*
EN(A,D,W)4X60L24**	0.99	1.03	*9MV*1202422A**
EN(A,D)4X61L24**	0.98	0.98	*9MA*0602120A**
EN(A,D)4X61L24**	0.99	0.99	*9MA*1002122A**
EN(A,D)4X61L24**	0.98	0.98	*9MA*1202422A**
EN(A,D)4X61L24**	1.01	1.04	*8MV*1352422B*
EN(A,D)4X61L24**	1.00	1.02	*9MV*1202422A**
EHDA4X48AAL	0.99	1.03	*8MV*0902116**
EHDA4X48AAL	0.99	1.01	*8MV*1352422B*
EHDA4X48AAL	0.99	1.06	*9MV*1002120A**
EHDA4X48AAL	0.99	1.03	*8MV*1102122**
EHDA4X60AAL	1.00	1.02	*8MV*0902116**
EHDA4X60AAL	1.00	1.02	*8MV*1352422B*
EHDA4X60AAL	1.00	1.07	*9MV*0601716A**
EHDA4X60AAL	1.00	1.07	*9MV*0602120A**
EHDA4X60AAL	1.00	1.07	*9MV*1002120A**
EHDA4X60AAL	0.99	1.01	*9MV*1202422A**
EHDA4X60AAL	1.00	1.02	*8MV*1102122**

COOLING INDOOR MODEL	HIGH SPEED CAP.	POWER	LOW SPEED CAP.	POWER	FURNACE MODEL
FVM4X48**L	1.01	1.01	1.00	1.01	
FVM4X60**L	1.01	1.01	1.01	0.97	
EHD4X48AAL	1.00	1.02	1.00	1.09	*9MX*1002120A**

CVA960
DETAILED COOLING CAPACITIES# – EFFICIENCY MODE CONTINUED

EDB °F (°C)		EVAP. AIR		CVA960 / FCM4X60***L Efficiency Mode																						
				Condenser Entering Air Temperature °F (°C)																						
				115 (46.1)				105 (40.5)				95 (35)				85 (29.4)				75 (23.9)				65 (18.3)		
EWB °F (°C)		ID SCF M	Capacity MBtuh Total	Sens ‡	Total Sys. KW**	ID SCF M	Capacity MBtuh Total	Sens ‡	Total Sys. KW**	ID SCF M	Capacity MBtuh Total	Sens ‡	Total Sys. KW**	ID SCF M	Capacity MBtuh Total	Sens ‡	Total Sys. KW**	ID SCF M	Capacity MBtuh Total	Sens ‡	Total Sys. KW**					
75 (23.9)		72 (22.2)	1600	55.38	22.79	7.70	1600	59.00	24.17	6.73	1600	62.54	25.53	5.88	1600	65.96	26.86	5.13	1600	69.30	28.16	4.47	1600	72.59	29.46	3.89
		67 (19.4)		50.63	30.18	7.50		53.95	31.68	6.54		57.12	33.14	5.70		60.22	34.57	4.96		63.25	35.99	4.32		66.21	37.38	3.75
		63 (17.2)		47.11	36.00	7.35		50.18	37.58	6.40		53.13	39.12	5.57		55.99	40.62	4.84		58.78	42.11	4.21		61.52	43.58	3.65
		57 (13.9)		43.16	43.16	7.19		45.55	45.55	6.23		47.97	47.63	5.40		50.44	49.37	4.69		52.86	51.01	4.06		55.26	52.62	3.52
		72 (22.2)		55.24	30.04	7.70		58.86	31.53	6.73		62.40	33.00	5.88		65.82	34.44	5.13		69.15	35.85	4.47		72.44	37.26	3.89
80 (26.7)		67 (19.4)	1600	50.50	37.37	7.50	1600	53.83	38.98	6.54	1600	57.00	40.53	5.70	1600	60.10	42.07	4.96	1600	63.13	43.59	4.32	1600	66.10	45.08	3.75
		63 (17.2)		47.09	43.10	7.35		50.13	44.81	6.40		53.07	46.46	5.57		55.91	48.08	4.84		58.70	49.67	4.21		61.44	51.25	3.65
		57 (13.9)		45.62	45.62	7.29		48.12	48.12	6.33		50.51	50.51	5.49		52.83	52.83	4.76		55.06	55.06	4.12		57.24	57.24	3.56
		STAGE 3																								
75 (23.9)		72 (22.2)	1350	35.94	15.07	3.39	1350	38.40	15.98	3.08	1350	40.44	16.73	2.76	1350	42.79	17.61	2.51	1350	45.10	18.48	2.29	1350	47.36	19.34	2.08
		67 (19.4)		32.49	20.54	3.35		34.72	21.48	3.05		36.67	22.32	2.72		38.80	23.24	2.47		40.88	24.15	2.24		42.94	25.05	2.04
		63 (17.2)		29.95	24.83	3.33		32.01	25.81	3.03		33.87	26.70	2.69		35.85	27.65	2.44		37.78	28.59	2.22		39.68	29.52	2.01
		57 (13.9)		28.14	28.14	3.32		29.76	29.76	3.02		31.24	31.24	2.67		32.75	32.75	2.42		34.21	34.21	2.19		35.65	35.65	1.99
		72 (22.2)		35.82	20.59	3.39		38.29	21.54	3.08		40.32	22.34	2.76		42.67	23.26	2.51		44.98	24.17	2.29		47.24	25.07	2.08
80 (26.7)		67 (19.4)	1350	32.39	26.01	3.35	1350	34.62	26.99	3.05	1350	36.56	27.87	2.72	1350	38.70	28.83	2.47	1350	40.78	29.77	2.24	1350	42.84	30.72	2.04
		63 (17.2)		30.07	30.04	3.29		32.09	31.18	3.03		33.90	32.16	2.69		35.85	33.17	2.44		37.76	34.16	2.22		39.65	35.14	2.01
		57 (13.9)		30.02	30.02	3.33		31.70	31.70	3.03		33.22	33.22	2.68		34.80	34.80	2.43		36.33	36.33	2.21		37.82	37.82	2.00
		STAGE 1																								
75 (23.9)		72 (22.2)	1200	26.64	11.34	1.89	1200	28.56	12.02	1.84	975	20.89	8.78	1.03	975	22.26	9.26	1.00	975	23.59	9.73	0.91	975	24.89	10.21	0.75
		67 (19.4)		23.86	15.71	1.89		25.60	16.40	1.84		18.63	11.93	1.02		19.89	12.40	1.00		21.11	12.85	0.92		22.30	13.31	0.77
		63 (17.2)		21.85	19.14	1.89		23.45	19.83	1.84		16.95	14.38	1.01		18.11	14.83	1.00		19.24	15.26	0.92		20.34	15.69	0.79
		57 (13.9)		20.91	20.91	1.88		22.14	22.14	1.84		15.97	15.97	1.01		16.81	16.81	1.00		17.62	17.62	0.94		18.38	18.38	0.81
		72 (22.2)		26.55	15.84	1.89		28.46	16.52	1.84		20.81	12.06	1.03		22.18	12.52	1.00		23.51	12.97	0.91		24.81	13.42	0.75
80 (26.7)		67 (19.4)	1200	23.79	20.16	1.89	1200	25.52	20.85	1.84	975	18.58	15.17	1.02	975	19.83	15.62	1.00	975	21.05	16.05	0.92	975	22.24	16.48	0.77
		63 (17.2)		22.48	22.48	1.89		23.77	23.77	1.84		17.25	17.25	1.01		18.20	17.98	1.00		19.28	18.43	0.92		20.35	18.85	0.79
		57 (13.9)		22.44	22.44	1.89		23.72	23.72	1.84		17.21	17.21	1.01		18.08	18.08	1.00		18.91	18.91	0.93		19.70	19.70	0.80
		STAGE 1																								

CVA960

DETAILED COOLING CAPACITIES# - COMFORT + DEHUMIDIFY MODE CONTINUED

EDB °F (°C)	EVAF AIR	CVA960 / FCM4X60***L Comfort + Dehumidity Mode																			
		Condenser Entering Air Temperature °F (°C)																			
		105 (40.5)			95 (35)			85 (29.4)			75 (23.9)			65 (18.3)							
		ID SCFM	Capacity MBtuh Total	Total Sys. KW	ID SCFM	Capacity MBtuh Total	Total Sys. KW	ID SCFM	Capacity MBtuh Total	Total Sys. KW	ID SCFM	Capacity MBtuh Total	Total Sys. KW	ID SCFM	Capacity MBtuh Total	Total Sys. KW					
STAGE 5																					
75 (23.9)	72 (22.2)	1367	57.74	23.45	6.51	1440	61.60	25.02	5.73	1514	65.43	26.57	5.06	1566	69.11	28.06	4.43	71.73	29.06	3.80	
	67 (19.4)		52.75	29.96	6.32		56.26	31.94	5.56		59.74	33.92	4.89		1488	63.08	35.74	4.28	65.39	36.48	3.66
	63 (17.2)		49.06	35.05	6.19		52.31	37.35	5.43		55.53	39.67	4.77			58.62	41.74	4.17	60.75	42.26	3.56
	57 (13.9)		44.14	42.48	6.02		47.05	45.25	5.27		49.93	48.04	4.62			52.69	50.49	4.02	54.52	50.74	3.43
	72 (22.2)	1367	57.61	29.82	6.52	1440	61.47	31.80	5.74	1514	65.28	33.78	5.06	1566	68.97	35.61	4.43	71.59	36.37	3.80	
67 (19.4)	52.65		36.25	6.32	56.15		38.64	5.56	59.62		41.04	4.89	1488		62.96	43.19	4.28	65.29	43.67	3.66	
63 (17.2)	48.99		41.31	6.19	52.23		44.02	5.43	55.45		46.75	4.77			58.54	48.15	4.17	60.67	49.42	3.56	
57 (13.9)	45.90		45.90	6.08	48.92		48.92	5.33	51.93		51.93	4.67			54.72	54.72	4.07	55.91	55.91	3.46	
STAGE 3																					
75 (23.9)	72 (22.2)	959	36.98	15.01	3.25	1013	39.25	15.94	2.79	1066	41.77	16.95	2.44	1120	44.28	17.97	2.13	47.05	19.11	1.87	
	67 (19.4)		33.40	19.03	3.22		35.55	20.23	2.75		37.83	21.50	2.39		1210	40.10	22.76	2.09	42.62	24.30	1.84
	63 (17.2)		30.77	22.16	3.21		32.82	23.59	2.72		34.94	25.04	2.37			37.04	26.50	2.06	39.38	28.36	1.81
	57 (13.9)		27.31	26.75	3.18		29.19	28.48	2.69		31.09	30.22	2.34			32.99	31.96	2.04	35.10	34.26	1.79
	72 (22.2)	959	36.89	19.10	3.25	1013	39.15	20.27	2.79	1066	41.66	21.53	2.44	1120	44.17	22.80	2.13	46.93	24.34	1.87	
67 (19.4)	33.32		23.06	3.22	35.47		24.51	2.75	37.74		26.01	2.39	1210		40.02	27.53	2.09	42.53	29.47	1.84	
63 (17.2)	30.72		26.18	3.21	32.77		27.85	2.72	34.89		29.54	2.37			36.99	31.25	2.06	39.33	33.50	1.81	
57 (13.9)	28.74		28.74	3.19	30.65		30.65	2.70	32.58		32.58	2.35			34.53	34.53	2.05	36.85	36.85	1.80	
STAGE 1																					
75 (23.9)	72 (22.2)	748	27.11	11.00	2.21	600	19.91	8.07	1.22	600	20.99	8.50	1.01	647	22.49	9.11	0.80	24.02	9.73	0.59	
	67 (19.4)		24.28	13.80	2.21		17.69	10.04	1.21		18.67	10.45	1.01		700	20.04	11.19	0.81	21.43	11.97	0.61
	63 (17.2)		22.21	15.99	2.20		16.05	11.57	1.21		16.97	11.96	1.01			18.23	12.81	0.82	19.53	13.71	0.62
	57 (13.9)		19.51	19.20	2.20		13.98	13.85	1.20		14.76	14.19	1.02			15.88	15.20	0.84	17.03	16.27	0.65
	72 (22.2)	748	27.04	13.93	2.21	600	19.86	10.20	1.22	600	20.94	10.61	1.01	647	22.43	11.35	0.80	23.96	12.13	0.59	
67 (19.4)	24.22		16.71	2.21	17.65		12.16	1.21	18.63		12.54	1.01	700		19.99	13.42	0.81	21.39	14.35	0.61	
63 (17.2)	22.18		18.88	2.20	16.04		13.68	1.21	16.95		14.04	1.01			18.21	15.03	0.82	19.50	16.08	0.62	
57 (13.9)	20.65		20.65	2.20	14.90		14.90	1.20	15.50		15.50	1.02			16.63	16.63	0.83	17.82	17.82	0.64	

Operation in this area is restricted to maintain reliable system operation and customer comfort. The system will default to the next available stage

Stage 5 — Compressor speed limited to stage four at 65 outdoor. **Stage 1** — Compressor speed limited to stage two at 105 outdoor.

Stage 5 – Compressor speed limited to stage four at 65 outdoor. **Stage 1** – Compressor speed limited to stage two at 105 outdoor.

See additional notes on page 28

DETAILED COOLING CAPACITIES# – EFFICIENCY MODE & COMFORT + DEHUMIDIFY MODE CONTINUED

CVA960

COOLING INDOOR MODEL	CAPACITY	POWER	FURNACE MODEL
FVM4X60***L	1.00	1.00	
EA4X60L21A*	0.98	1.03	*9MA*0602120A**
EA4X60L21A*	0.99	1.04	*9MA*0802120A**
EA4X60L21A*	0.99	1.04	*9MA*1002122A**
EA4X60L21A*	0.99	0.99	*8MV*1102120**
EA4X60L21A*	0.98	1.03	*9MA*0602120A**
EA4X60L24A*	0.99	1.04	*9MA*1002122A**
EA4X60L24A*	0.99	0.99	*9MA*1202422A**
EA4X60L24A*	0.99	1.04	*9MA*1352422**
EA4X60L24A*	0.99	0.99	*8MV*102120**
EA4X60L24A*	0.99	0.99	*8MV*1352422**
EA4X60L24A*	0.99	1.04	*9MA*0602120A**
EA4X60L24A*	0.99	1.04	*9MA*1002122A**
EA4X60L24A*	0.99	1.04	*9MA*1202422A**
EA4X60L24A*	0.99	0.99	*8MV*1102120**
EA4X60L24A*	0.99	0.99	*8MV*1352422**
EA4X60L24A*	0.98	1.09	*9MA*0602120A**
EA4X60L24A*	0.99	1.04	*9MA*1002122A**
EA4X60L24A*	0.99	1.04	*9MA*1202422A**
EA4X60L24A*	0.99	1.04	*8MV*1102120**
EA4X60L24A*	0.99	1.04	*8MV*1352422**
EA4X60L24A*	0.97	1.02	*9MA*0602120A**
EA4X60L24A*	0.98	1.03	*9MA*1002122A**
EA4X60L24A*	0.98	0.98	*9MA*1202422A**
EA4X60L24A*	0.98	1.03	*9MA*1352422**
EA4X60L24A*	0.98	0.98	*8MV*1102120**
EA4X60L24A*	0.98	0.98	*8MV*1352422**
EA4X60L24A*	0.99	1.04	*9MA*0602120A**
EA4X60L24A*	0.99	1.04	*9MA*1002122A**
EA4X60L24A*	0.99	0.99	*9MA*1202422A**
EA4X60L24A*	0.99	1.00	*8MV*1102120**
EA4X60L24A*	0.99	1.00	*8MV*1352422**

COOLING INDOOR MODEL	HIGH SPEED CAP	POWER	LOW SPEED CAP	POWER	FURNACE MODEL
FVM4X60***L	1.00	1.00	1.00	1.00	
EA4X60L21A*	0.99	1.04	1.01	1.11	*9MA*0802120A**
EA4X60L24A*	1.00	1.05	1.01	1.11	*9MA*1202422A**
EA4X60L24A*	1.00	1.05	1.01	1.09	OLV154F20A
EA4X60L24A*	1.00	1.05	1.01	1.11	*9MA*1202422A**
EA4X60L24A*	1.00	1.05	1.01	1.10	*9MA*1202422A**
EA4X60L24A*	0.99	1.04	1.01	1.11	*9MA*1202422A**
EA4X60L24A*	0.99	1.04	1.01	1.09	OLV154F20A
EA4X60L24A*	1.00	1.05	1.01	1.09	*9MA*1202422A**
EA4X60L24A*	1.01	1.06	1.01	1.07	OLV154F20A
EA4X60L24A*	1.00	1.05	1.01	1.10	OMV154L20A
EA4X60L24A*	1.00	1.05	1.00	1.09	*9MA*1202422A**
EA4X60L24A*	1.01	1.06	1.00	1.11	OMV154L20A

NOTES:

- * Tested combination.
- † Total and sensible capacities are net capacities. Blower motor heat has been subtracted.
- ‡ Sensible capacities are shown for both 80°F (27°C) and 75°F (23.4°C) entering air at the indoor coil.
- # For sensible capacities at other than these, deduct 835 Btuh (245 kW) per 1000 CFM (480 L/S) of indoor coil air for each degree below reference temperature, or add 835 Btuh (245 kW) per 1000 CFM (480 L/S) of indoor coil air for each degree above reference temperature.
- # 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.
- NOTE: When the required data falls between the published data, interpolation may be performed. Extrapolation is not an acceptable practice.
- EWB — Entering Wet Bulb

GUIDE SPECIFICATIONS

GENERAL

System Description

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

Quality Assurance

- Unit will be rated in accordance with the latest edition of AHRI Standard 240.
- Unit will be certified for capacity and efficiency, and listed in the latest AHRI directory.
- Unit construction will comply with latest edition of ASHRAE and with NEC.

PRODUCTS

Equipment

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

Unit Cabinet

- Unit cabinet will be constructed of galvanized steel, bonderized, and coated with a powder coat paint.

Fans

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

Compressor

- Compressor will be hermetically sealed.
- Compressor will be mounted on rubber vibration isolators.
- Compressor will be covered with a sound absorbing blanket.

Condenser Coil

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

Refrigeration Components

- Refrigeration circuit components will include liquid-line front-seating shutoff valve with sweat connections, vapor-line front-seating shutoff valve with sweat connections, system charge of R-410A refrigerant, POE compressor oil, accumulator, charge compensator, electronic expansion valve, and reversing valve.
- Unit will be equipped with high-pressure switch, suction pressure transducer, and filter drier for R-410A refrigerant.

- Unit will be constructed in accordance with UL standards and will carry the UL label of approval. Unit will have C-UL approval.
- Unit cabinet will be capable of withstanding Federal Test Method Standard No. 141 (Method 6061) 500-hr salt spray test.
- Air-cooled condenser coils are pressure tested and the outdoor units are leak tested.
- Unit constructed in ISO9001 approved facility.

Delivery, Storage, and Handling

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

Warranty (for inclusion by specifying engineer)

- U.S. and Canada only.

AIR-COOLED, SPLIT-SYSTEM AIR CONDITIONER CVA9

Operating Characteristics

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

Electrical Requirements

- Nominal unit electrical characteristics will be _____ v, single phase, 60 hz. The unit will be capable of satisfactory operation within voltage limits of _____ v to _____ v.
- Unit electrical power will be single point connection.
- Control circuit will be 24v.
- Compliant with IEC 61000-4-5 Transient Surge Requirement.

Special Features

- Refer to section of this literature identifying accessories and descriptions for specific features and available enhancements.
- Ion® System control with appropriate software version is required for full featured operation.

SYSTEM DESIGN SUMMARY

1. Intended for outdoor installation with free air inlet and outlet. Outdoor fan external static pressure available is less than 0.01-in. wc.
2. This product is not qualified for low ambient cooling operation.
Minimum cooling outdoor operating temperatures:
 - Communicating systems: 40°F (4.44°C)
 - Non-communicating systems: 55°F (12.8°C)
3. For reliable operation, unit should be level in all horizontal planes.
4. This unit is qualified for up to 100 ft (30.5 m) equivalent length of line set without additional accessories.
5. If any refrigerant tubing is buried, provide a 6 in. (152.4 mm) vertical rise to the valve connections at the unit. Refrigerant tubing lengths up to 36 in. (914.4 mm) may be buried without further consideration. Do not bury refrigerant lines longer than 36 in. (914.4 mm).
6. Use only copper wire for electric connection at unit. Aluminum and clad aluminum are not acceptable for the type of connector provided.
7. Do not apply capillary tube indoor coils to these units.
8. R-410A refrigerant TXV required on indoor coil.

Accessory Description and Usage

Support Feet

Raises unit above base pad. 2 and 3 ton kit contains 5 feet for stable installation with small base. 4 and 5 ton kit contains 4 feet.

Usage Guideline:

Recommended in cold climates where snow can accumulate around unit. Allows improved base pan drainage. Recommended for rooftop applications.

Thermostatic Expansion Valve (TXV)

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

Usage Guideline:

Required if indoor unit does not already contain R-410A refrigerant TXV

WALL CONTROL

SYST0101CW	Ion® System Control	ALL
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ACCESSORY USAGE GUIDELINES

KIT NUMBER	KIT NAME	Unit Size (Voltage/Series)						
		24	25	36	37	48	49	60
NASA00106SS	Snow Stand Kit							X
NASA001SF	Support Feet, 4" (102mm) tall				X	X	X	X
NASA00201SF		X	X	X				
NAEA40501TX	TXV Kit, R-410A for use with copper or tin piston fan coils	X	X					
NAEA40601TX				X	X			
NAEA40701TX						X	X	X
NAEB40501TX	TXV Kit, R-410A for use with aluminum piston fan coils		X					
NAEB40601TX				X	X			
NAEB40701TX						X	X	
1187979	Vapor Line Muffler	X	X	X	X	X	X	X



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.

