



# CVA9

## ConstantComfort® Deluxe 19 with SmartSense™ Technology Product Specifications

### HIGH EFFICIENCY UP TO 19 SEER VARIABLE-SPEED AIR CONDITIONER WITH OBSERVER® COMMUNICATING CONTROL 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 Observer communicating system including Observer control
  - Observer Wall Control with version 5.0 or newer software required
  - Also capable of 2–stage operation with 2–stage thermostat
- Self–configuring installation with Observer Communicating Wall 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 Observer Communicating Wall 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 Observer Wall 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

#### 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.



TSTAT0201CW  
(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](http://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 = Day & Night 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<br>ft (m)                                             | MAXIMUM EQUIVALENT LENGTH†<br>ft (m) | MAXIMUM VERTICAL SEPARATION<br>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†<br>Vertical Separation ft (m) Outdoor unit BELOW indoor unit; |                      |                       |                        |                        |                        |                        |
|-------|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------|----------------------|-----------------------|------------------------|------------------------|------------------------|------------------------|
|       |                             | 0–20<br>(0 – 6.1)                                                                                                           | 21–30<br>(6.4 – 9.1) | 31–40<br>(9.4 – 12.2) | 41–50<br>(12.5 – 15.2) | 51–60<br>(15.5 – 18.3) | 61–70<br>(18.6 – 21.3) | 71–80<br>(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        |
|                     | <b>3/4</b>    | <b>0.1</b>                        | <b>0.4</b> | <b>0.6</b> | <b>0.7</b> | <b>0.8</b> |
| 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        |
|                     | <b>7/8</b>    | 0.0                               | 0.1        | 0.3        | 0.3        | 0.4        |
| 36<br>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        |
|                     | <b>7/8</b>    | 0.0                               | 0.3        | 0.5        | 0.6        | 0.8        |
| 48<br>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        |
|                     | <b>1 1/8</b>  | 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        |
|                     | <b>1 1/8</b>  | 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 Observer® 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–<br>VOLTAGE,<br>SERIES | V/PH             | OPER VOLTS* |     | COMPR |      | FAN  | MCA  | MAX FUSE ** or<br>CKT BRK AMPS |
|----------------------------------|------------------|-------------|-----|-------|------|------|------|--------------------------------|
|                                  |                  | MAX         | MIN | LRA   | RLA  | FLA  |      |                                |
| 24                               | 208/230<br>–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<br>(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

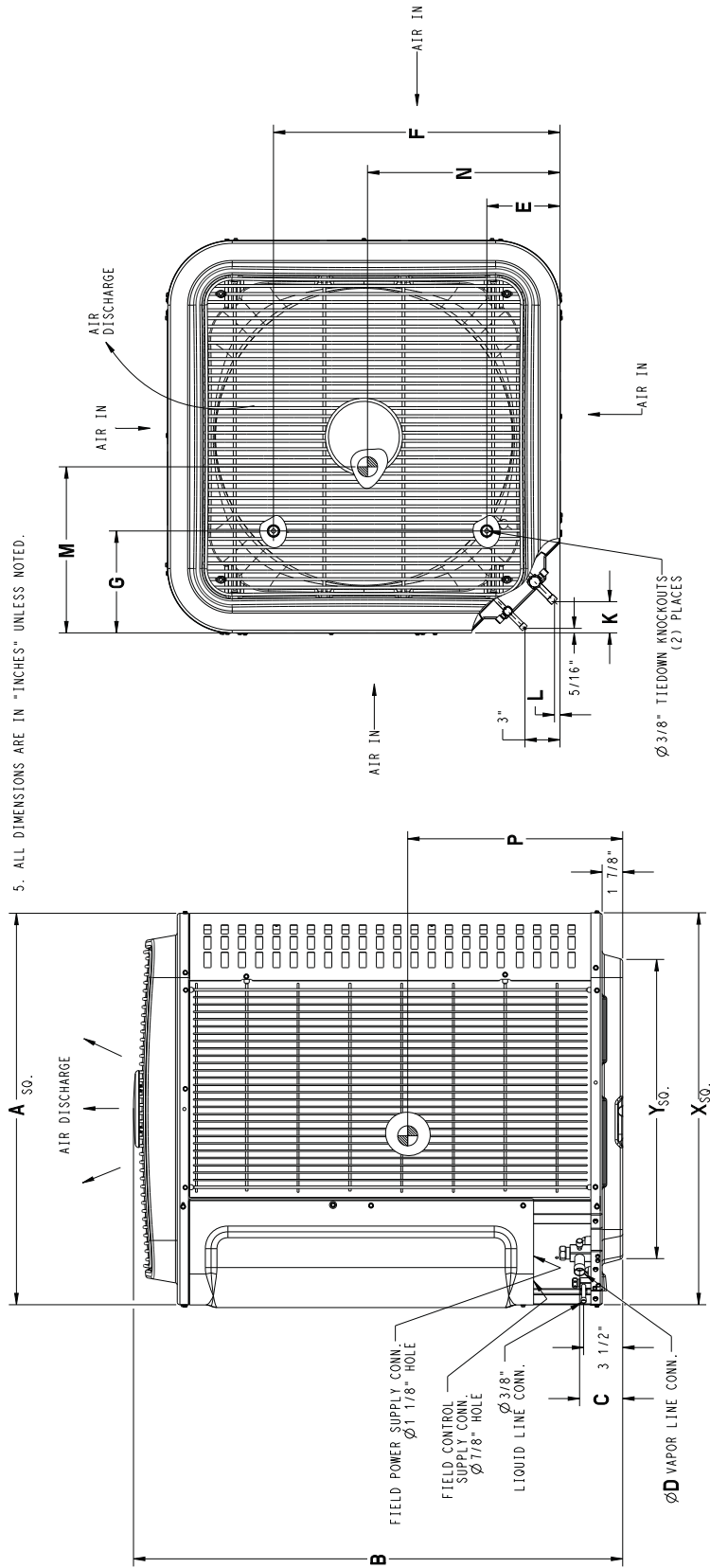
| UNIT     | SERIES | ELECTRICAL CHARACTERISTICS |   |   | A        | B         | C      | D    | E       | F         | G        | K        | L    | M       | N       | P       | OPERATING WEIGHT (lbs) | SHIPPING WEIGHT (lbs) | SHIPPING DIMENSIONS (L x W x H) |  |  |
|----------|--------|----------------------------|---|---|----------|-----------|--------|------|---------|-----------|----------|----------|------|---------|---------|---------|------------------------|-----------------------|---------------------------------|--|--|
| *A924GKA | 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"     |  |  |
| *A925GKA | 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"     |  |  |
| *A936GKA | 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"     |  |  |
| *A937GKA | 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"     |  |  |
| *A948GKA | 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"     |  |  |
| *A949GKA | 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"    |  |  |
| *A960GKA | 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" MIN GROUND MOUNTING PAD APPLICATION DIMENSIONS | "Y" MIN ROOF-TOP MOUNTING PAD APPLICATION DIMENSIONS |
|------------|----------------------------------------------------|------------------------------------------------------|
| 24, 25, 36 | 23 1/8"                                            | 17 3/4"                                              |
| 37, 48, 60 | 25 3/4"                                            | 20 7/16"                                             |
| 49         | 31 3/16"                                           | 23"                                                  |
|            | 35"                                                | 26 3/4"                                              |

- NOTES:
- ALLOW 30" CLEARANCE TO SERVICE SIDE OF UNIT, 48" ABOVE UNIT, 6" ON ONE SIDE, 12" ON REMAINING SIDE, AND 24" BETWEEN UNITS FOR PROPER AIRFLOW.
  - MINIMUM OUTDOOR OPERATING AMBIENT IN COOLING MODE IS 55°F, MAX. 115°F.
  - SERIES DESIGNATION IS THE 10TH POSITION OF THE UNIT MODEL NUMBER.
  - CENTER OF GRAVITY 
  - ALL DIMENSIONS ARE IN "INCHES" UNLESS NOTED.

X = YES  
O = NO

|             |         |              |          |
|-------------|---------|--------------|----------|
| 208/230-160 | 230-160 | 208/230-3-60 | 460-3-60 |
|-------------|---------|--------------|----------|



Representative drawing only, some models may vary in appearance.

\* = C, H, T

SD5337-4 REV C

# 8 DIMENSIONS – SI

| 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 |
|-------------|---------|--------------|----------|

## 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.

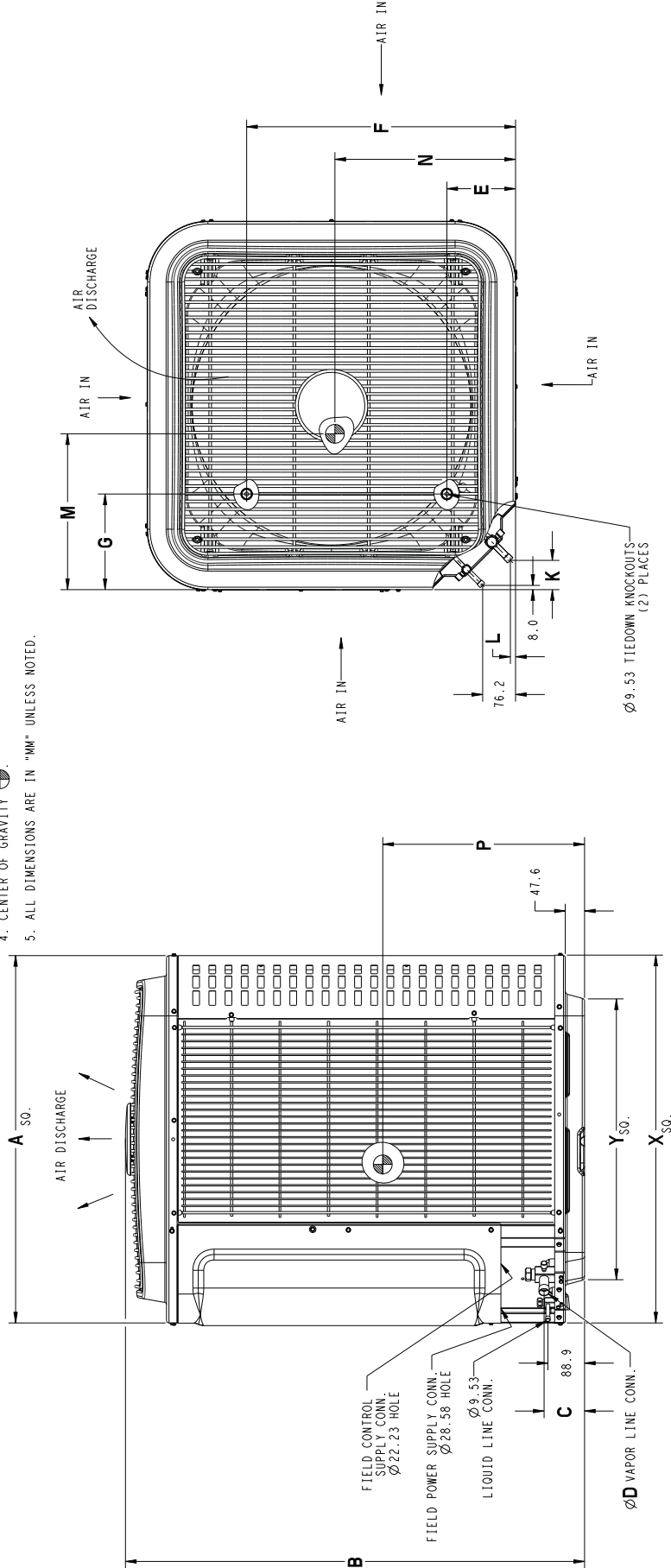
2. MINIMUM OUTDOOR OPERATING AMBIENT IN COOLING MODE IS 13°C. MAX. 46°C.

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.

\* = C, H, T

SD5337-4 REV C



## TESTED AHRI COMBINATION RATINGS\*

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

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

Additional ratings and system combinations can be accessed via the Day and Night database at:  
<http://www.icpep.com/AHRIratings/ratings.aspx?Brand=DayAndNight>

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 Observer® Wall 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<br>°F (°C) | EVAR.<br>AIR<br>°F (°C) | CVA924 / FCMA924***L Efficiency Mode |         |                 |        |         |                |         |                 |        |         | Condenser Entering Air Temperature °F (°C) |         |                 |        |         |                |         |                 |        |         | 75 (23.9)      |         |                 |        |         |                |         |                 |        |         | 65 (18.3)      |         |                 |        |         |                |         |                 |        |         |                |         |                 |        |       |         |       |        |      |         |       |        |       |       |      |       |       |      |       |       |      |       |       |      |       |       |      |       |       |      |       |       |      |       |       |      |       |       |      |       |       |      |       |       |      |       |       |   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|                |                         | 115 (46.1)                           |         |                 |        |         | 105 (40.5)     |         |                 |        |         | 95 (35)                                    |         |                 |        |         | 85 (29.4)      |         |                 |        |         | 75 (23.9)      |         |                 |        |         | 65 (18.3)      |         |                 |        |         | 55 (12.8)      |         |                 |        |         | 45 (7.2)       |         |                 |        |         |                |         |                 |        |       |         |       |        |      |         |       |        |       |       |      |       |       |      |       |       |      |       |       |      |       |       |      |       |       |      |       |       |      |       |       |      |       |       |      |       |       |      |       |       |      |       |       |   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|                |                         | 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** |        | ID SCFM | Capacity MBtuh |         | Total Sys. KW** |        |       |         |       |        |      |         |       |        |       |       |      |       |       |      |       |       |      |       |       |      |       |       |      |       |       |      |       |       |      |       |       |      |       |       |      |       |       |      |       |       |      |       |       |      |       |       |      |       |       |      |       |       |      |       |       |      |       |       |      |       |       |      |       |       |      |       |       |      |       |       |      |       |       |      |       |       |      |       |       |      |       |       |      |       |       |      |       |       |      |       |       |      |       |       |      |       |       |      |       |       |      |       |       |      |       |       |      |       |       |      |       |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |        |      |        |        |      |        |        |      |        |        |      |        |        |      |        |        |      |        |        |      |        |        |      |        |        |      |        |        |      |        |        |      |        |        |      |        |        |      |        |        |      |        |        |      |        |        |      |        |        |      |        |        |      |        |        |      |        |        |      |        |        |      |        |        |   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|                |                         | EWB                                  | °F (°C) | Total           | Sensit |         | EWB            | °F (°C) | Total           | Sensit |         | EWB                                        | °F (°C) | Total           | Sensit |         | EWB            | °F (°C) | Total           | Sensit |         | EWB            | °F (°C) | Total           | Sensit |         | EWB            | °F (°C) | Total           | Sensit |         | EWB            | °F (°C) | Total           | Sensit |         | EWB            | °F (°C) | Total           | Sensit |         | EWB            | °F (°C) | Total           | Sensit | EWB   | °F (°C) | Total | Sensit | EWB  | °F (°C) | Total | Sensit |       |       |      |       |       |      |       |       |      |       |       |      |       |       |      |       |       |      |       |       |      |       |       |      |       |       |      |       |       |      |       |       |      |       |       |      |       |       |      |       |       |      |       |       |      |       |       |      |       |       |      |       |       |      |       |       |      |       |       |      |       |       |      |       |       |      |       |       |      |       |       |      |       |       |      |       |       |      |       |       |      |       |       |      |       |       |      |       |       |      |       |       |      |       |       |      |       |       |      |       |       |      |       |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |        |      |        |        |      |        |        |      |        |        |      |        |        |      |        |        |      |        |        |      |        |        |      |        |        |      |        |        |      |        |        |      |        |        |      |        |        |      |        |        |      |        |        |      |        |        |      |        |        |      |        |        |      |        |        |      |        |        |      |        |        |      |        |        |      |        |        |      |        |        |      |        |        |      |        |        |      |        |        |      |        |        |      |        |        |      |        |        |      |        |        |      |        |        |      |        |        |      |        |        |      |        |        |      |        |        |      |        |        |      |        |        |      |        |        |      |        |        |      |        |        |      |        |        |      |        |        |      |        |        |      |        |        |      |        |        |      |        |        |      |        |        |      |        |        |      |        |        |      |        |        |      |        |        |      |        |        |      |        |        |      |        |        |      |        |        |      |        |        |      |        |        |      |        |        |      |        |        |      |        |        |      |        |        |      |        |        |      |        |        |      |        |        |      |        |        |      |        |        |      |        |        |      |        |        |      |        |        |      |        |        |      |        |        |      |        |        |      |        |        |      |        |        |      |        |        |      |    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   |        |      |        |        |      |        |        |      |        |        |      |        |        |      |        |        |      |        |        |      |        |        |      |        |        |      |        |        |      |        |        |      |        |        |      |        |        |      |        |        |      |        |        |      |        |        |      |        |        |      |        |        |      |        |        |      |        |        |      |        |        |      |        |        |      |        |        |      |        |        |      |        |        |      |        |        |      |        |        |      |        |        |      |        |        |      |        |        |      |        |        |      |        |        |      |        |        |      |        |        |      |        |        |      |        |        |      |        |        |      |        |        |      |        |        |      |        |        |      |      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| 75<br>(23.9)   | 72(22.2)                | 825                                  | 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   | 13.29          | 1.11    | 34.00           | 13.86  | 0.86    | 35.49          | 14.43   | 0.59            | 36.98  | 15.00   | 0.33           | 38.47   | 15.57           | 0.07   | 39.96   | 16.14          | 0.00    | 41.45           | 16.71  | 0.00    | 42.94          | 17.28   | 0.00            | 44.43  | 17.85 | 0.00    | 45.92 | 18.42  | 0.00 | 47.41   | 19.00 | 0.00   | 48.90 | 19.57 | 0.00 | 50.39 | 20.14 | 0.00 | 51.88 | 20.71 | 0.00 | 53.37 | 21.28 | 0.00 | 54.86 | 21.85 | 0.00 | 56.35 | 22.42 | 0.00 | 57.84 | 22.99 | 0.00 | 59.33 | 23.56 | 0.00 | 60.82 | 24.13 | 0.00 | 62.31 | 24.70 | 0.00 | 63.80 | 25.27 | 0.00 | 65.29 | 25.84 | 0.00 | 66.78 | 26.41 | 0.00 | 68.27 | 26.98 | 0.00 | 69.76 | 27.55 | 0.00 | 71.25 | 28.12 | 0.00 | 72.74 | 28.69 | 0.00 | 74.23 | 29.26 | 0.00 | 75.72 | 29.83 | 0.00 | 77.21 | 30.40 | 0.00 | 78.70 | 30.97 | 0.00 | 80.19 | 31.54 | 0.00 | 81.68 | 32.11 | 0.00 | 83.17 | 32.68 | 0.00 | 84.66 | 33.25 | 0.00 | 86.15 | 33.82 | 0.00 | 87.64 | 34.39 | 0.00 | 89.13 | 34.96 | 0.00 | 90.62 | 35.53 | 0.00 | 92.11 | 36.10 | 0.00 | 93.60 | 36.67 | 0.00 | 95.09 | 37.24 | 0.00 | 96.58 | 37.81 | 0.00 | 98.07 | 38.38 | 0.00 | 99.56 | 38.95 | 0.00 | 101.05 | 39.52 | 0.00 | 102.54 | 40.09 | 0.00 | 104.03 | 40.66 | 0.00 | 105.52 | 41.23 | 0.00 | 107.01 | 41.80 | 0.00 | 108.50 | 42.37 | 0.00 | 110.00 | 42.94 | 0.00 | 111.49 | 43.51 | 0.00 | 112.98 | 44.08 | 0.00 | 114.47 | 44.65 | 0.00 | 115.96 | 45.22 | 0.00 | 117.45 | 45.79 | 0.00 | 118.94 | 46.36 | 0.00 | 120.43 | 46.93 | 0.00 | 121.92 | 47.50 | 0.00 | 123.41 | 48.07 | 0.00 | 124.90 | 48.64 | 0.00 | 126.39 | 49.21 | 0.00 | 127.88 | 49.78 | 0.00 | 129.37 | 50.35 | 0.00 | 130.86 | 50.92 | 0.00 | 132.35 | 51.49 | 0.00 | 133.84 | 52.06 | 0.00 | 135.33 | 52.63 | 0.00 | 136.82 | 53.20 | 0.00 | 138.31 | 53.77 | 0.00 | 139.80 | 54.34 | 0.00 | 141.29 | 54.91 | 0.00 | 142.78 | 55.48 | 0.00 | 144.27 | 56.05 | 0.00 | 145.76 | 56.62 | 0.00 | 147.25 | 57.19 | 0.00 | 148.74 | 57.76 | 0.00 | 150.23 | 58.33 | 0.00 | 151.72 | 58.90 | 0.00 | 153.21 | 59.47 | 0.00 | 154.70 | 60.04 | 0.00 | 156.19 | 60.61 | 0.00 | 157.68 | 61.18 | 0.00 | 159.17 | 61.75 | 0.00 | 160.66 | 62.32 | 0.00 | 162.15 | 62.89 | 0.00 | 163.64 | 63.46 | 0.00 | 165.13 | 64.03 | 0.00 | 166.62 | 64.60 | 0.00 | 168.11 | 65.17 | 0.00 | 169.60 | 65.74 | 0.00 | 171.09 | 66.31 | 0.00 | 172.58 | 66.88 | 0.00 | 174.07 | 67.45 | 0.00 | 175.56 | 68.02 | 0.00 | 177.05 | 68.59 | 0.00 | 178.54 | 69.16 | 0.00 | 180.03 | 69.73 | 0.00 | 181.52 | 70.30 | 0.00 | 183.01 | 70.87 | 0.00 | 184.50 | 71.44 | 0.00 | 186.00 | 72.01 | 0.00 | 187.49 | 72.58 | 0.00 | 188.98 | 73.15 | 0.00 | 190.47 | 73.72 | 0.00 | 191.96 | 74.29 | 0.00 | 193.45 | 74.86 | 0.00 | 194.94 | 75.43 | 0.00 | 196.43 | 76.00 | 0.00 | 197.92 | 76.57 | 0.00 | 199.41 | 77.14 | 0.00 | 200.90 | 77.71 | 0.00 | 202.39 | 78.28 | 0.00 | 203.88 | 78.85 | 0.00 | 205.37 | 79.42 | 0.00 | 206.86 | 80.00 | 0.00 | 208.35 | 80.57 | 0.00 | 209.84 | 81.14 | 0.00 | 211.33 | 81.71 | 0.00 | 212.82 | 82.28 | 0.00 | 214.31 | 82.85 | 0.00 | 215.80 | 83.42 | 0.00 | 217.29 | 83.99 | 0.00 | 218.78 | 84.56 | 0.00 | 220.27 | 85.13 | 0.00 | 221.76 | 85.70 | 0.00 | 223.25 | 86.27 | 0.00 | 224.74 | 86.84 | 0.00 | 226.23 | 87.41 | 0.00 | 227.72 | 87.98 | 0.00 | 229.21 | 88.55 | 0.00 | 230.70 | 89.12 | 0.00 | 232.19 | 89.69 | 0.00 | 233.68 | 90.26 | 0.00 | 235.17 | 90.83 | 0.00 | 236.66 | 91.40 | 0.00 | 238.15 | 91.97 | 0.00 | 239.64 | 92.54 | 0.00 | 241.13 | 93.11 | 0.00 | 242.62 | 93.68 | 0.00 | 244.11 | 94.25 | 0.00 | 245.60 | 94.82 | 0.00 | 247.09 | 95.39 | 0.00 | 248.58 | 95.96 | 0.00 | 250.07 | 96.53 | 0.00 | 251.56 | 97.10 | 0.00 | 253.05 | 97.67 | 0.00 | 254.54 | 98.24 | 0.00 | 256.03 | 98.81 | 0.00 | 257.52 | 99.38 | 0.00 | 259.01 | 99.95 | 0.00 | 260.50 | 100.52 | 0.00 | 262.00 | 101.09 | 0.00 | 263.49 | 101.66 | 0.00 | 264.98 | 102.23 | 0.00 | 266.47 | 102.80 | 0.00 | 267.96 | 103.37 | 0.00 | 269.45 | 103.94 | 0.00 | 270.94 | 104.51 | 0.00 | 272.43 | 105.08 | 0.00 | 273.92 | 105.65 | 0.00 | 275.41 | 106.22 | 0.00 | 276.90 | 106.79 | 0.00 | 278.39 | 107.36 | 0.00 | 279.88 | 107.93 | 0.00 | 281.37 | 108.50 | 0.00 | 282.86 | 109.07 | 0.00 | 284.35 | 109.64 | 0.00 | 285.84 | 110.21 | 0.00 | 287.33 | 110.78 | 0.00 | 288.82 | 111.35 | 0.00 | 290.31 | 111.92 | 0.00 | 291.80 | 112.49 | 0.00 | 293.29 | 113.06 | 0.00 | 294.78 | 113.63 | 0.00 | 296.27 | 114.20 | 0.00 | 297.76 | 114.77 | 0.00 | 299.25 | 115.34 | 0.00 | 300.74 | 115.91 | 0.00 | 302.23 | 116.48 | 0.00 | 303.72 | 117.05 | 0.00 | 305.21 | 117.62 | 0.00 | 306.70 | 118.19 | 0.00 | 308.19 | 118.76 | 0.00 | 309.68 | 119.33 | 0.00 | 311.17 | 119.90 | 0.00 | 312.66 | 120.47 | 0.00 | 314.15 | 121.04 | 0.00 | 315.64 | 121.61 | 0.00 | 317.13 | 122.18 | 0.00 | 318.62 | 122.75 | 0.00 | 320.11 | 123.32 | 0.00 | 321.60 | 123.89 | 0.00 | 323.09 | 124.46 | 0.00 | 324.58 | 125.03 | 0.00 | 326.07 | 125.60 | 0.00 | 327.56 | 126.17 | 0.00 | 329.05 | 126.74 | 0.00 | 330.54 | 127.31 | 0.00 | 332.03 | 127.88 | 0.00 | 333.52 | 128.45 | 0.00 | 335.01 | 129.02 | 0.00 | 336.50 | 129.59 | 0.00 | 338.00 | 130.16 | 0.00 | 339.49 | 130.73 | 0.00 | 340.98 | 131.30 | 0.00 | 342.47 | 131.87 | 0.00 | 343.96 | 132.44 | 0.00 | 345.45 | 133.01 | 0.00 | 346.94 | 133.58 | 0.00 | 348.43 | 134.15 | 0.00 | 349.92 | 134.72 | 0.00 | 351.41 | 135.29 | 0.00 | 352.90 | 135.86 | 0.00 | 354.39 | 136.43 | 0.00 | 355.88 | 137.00 | 0.00 | 357.37 | 137.57 | 0.00 | 358.86 | 138.14 | 0.00 | 360.35 | 138.71 | 0.00 | 361.84 | 139.28 | 0.00 | 363.33 | 139.85 | 0.00 | 364.82 | 140.42 | 0.00 | 366.31 | 140.99 | 0.00 | 367.80 | 141.56 | 0.00 | 369.29 | 142.13 | 0.00 | 370.78 | 142.70 | 0.00 | 372.27 | 143.27 | 0.00 | 373.76 | 143.84 | 0.00 | 375.25 | 144.41 | 0.00 | 376.74 | 144.98 | 0.00 | 378.23 | 145.55 | 0.00 | 379.72 | 146.12 | 0.00 | 381.21 | 146.69 | 0.00 | 382.70 | 147.26 | 0.00 | 384.19 | 147.83 | 0.00 | 385.68 | 148.40 | 0.00 | 387.17 | 148.97 | 0.00 | 388.66 | 149.54 | 0.00 | 390.15 | 150.11 | 0.00 | 391.64 | 150.68 | 0.00 | 393.13 | 151.25 | 0.00 | 394.62 | 151.82 | 0.00 | 396.11 | 152.39 | 0.00 | 397.60 | 152.96 | 0.00 | 399.09 | 153.53 | 0.00 | 400.58 | 154.10 | 0.00 | 402.07 | 154.67 | 0.00 | 403.56 | 155.24 | 0.00 | 405.05 | 155.81 | 0.00 | 406.54 | 156.38 | 0.00 | 408.03 | 156.95 | 0.00 | 409.52 | 157.52 | 0.00 | 411.01 | 158.09 | 0.00 | 412.50 | 158.66 | 0.00 | 413.99 | 159.23 | 0.00 | 415.48 | 159.80 | 0.00 | 416.97 | 160.37 | 0.00 | 418.46 | 160.94 | 0.00 | 419.95 | 161.51 | 0.00 | 421.44 | 162.08 | 0.00 | 422.93 | 162.65 | 0.00 | 424.42 | 163.22 | 0.00 | 425.91 | 163.79 | 0.00 | 427.40 | 164.36 | 0.00 | 428.89 | 164.93 | 0.00 | 430.38 | 165.50 | 0.00 | 431.87 | 166.07 | 0.00 | 433.36 | 166.64 | 0.00 | 434.85 | 167.21 | 0.00 | 436.34 | 167.78 | 0.00 | 437.83 | 168.35 | 0.00 | 439.32 | 168.92 | 0.00 | 440.81 | 169.49 | 0.00 | 442.30 | 170.06 | 0.00 | 443.79 | 170.63 | 0.00 | 445.28 | 171.20 | 0.00 | 446.77 | 171.77 | 0.00 | 448.26 | 172.34 | 0.00 | 449.75 | 172.91 | 0.00 | 451.24 | 173.48 | 0.00 | 452.73 | 174.05 | 0.00 | 454.22 | 174.62 | 0.00 | 455.71 | 175.19 | 0.00 | 457.20 | 175.76 | 0.00 | 458.69 | 176.33 | 0.00 | 460.18 | 176.90 | 0.00 | 461.67 | 177.47 | 0.00 | 463.16 | 178.04 | 0.00 | 464.65 | 178.61 | 0.00 | 466.14 | 179.18 | 0.00 | 467.63 | 179.75 | 0.00 | 469.12 | 180.32 | 0.00 | 470.61 | 180.89 | 0.00 | 472.10 | 181.46 | 0.00 | 473.59 | 182.03 | 0.00 | 475.08 | 182.60 | 0.00 | 476.57 | 183.17 | 0.00 | 478.06 | 183.74 | 0.00 | 479.55 | 184.31 | 0.00 | 481.04 | 184.88 | 0.00 | 482.53 | 185.45 | 0.00 | 484.02 | 186.02 | 0.00 | 485.51 | 186.59 | 0.00 | 487.00 | 187.16 | 0.00 | 488.49 | 187.73 | 0.00 | 489.98 | 188.30 | 0.00 | 491.47 | 188.87 | 0.00 | 492.96 | 189.44 | 0.00 | 494.45 | 190.01 | 0.00 | 495.94 | 190.58 | 0.00 | 497.43 | 191.15 | 0.00 | 498.92 | 191.72 | 0.00 | 500.41 | 192.29 | 0.00 | 501.90 | 192.86 | 0.00 | 503.39 | 193.43 | 0.00 | 504.88 | 194.00 | 0.00 | 506.37 | 194.57 | 0.00 | 507.86 | 195.14 | 0.00 | 509.35 | 195.71 | 0.00 | 510.84 | 196.28 | 0.00 | 512.33 | 196.85 | 0.00 | 513.82 | 197.42 | 0.00 | 515.31 | 197.99 | 0.00 | 516.80 | 198.56 | 0.00 | 518.29 | 199.13 | 0.00 | 519.78 | 199.70 | 0.00 | 521.27 | 200.27 | 0.00 | 522.76 | 200.84 | 0.00 | 524.25 | 201.41 | 0.00 | 525.74 | 201.98 | 0.00 | 527.23 | 202.55 | 0.00 | 528.72 | 203.12 | 0.00 | 530.21 | 203.69 | 0.00 | 531.70 | 204.26 | 0.00 | 533.19 | 204.83 | 0.00 | 534.68 | 205.40 | 0.00 | 536.17 | 205.97 | 0.00 | 537.66 | 206.54 | 0.00 | 539.15 | 207.11 | 0.00 | 540.64 | 207.68 | 0.00 | 542.13 | 208.25 | 0.00 | 543.62 | 208.82 | 0.00 | 545.11 | 209.39 | 0.00 | 546.60 | 209.96 | 0.00 | 548.09 | 210.53 | 0.00 | 549.58 | 211.10 | 0.00 | 551.07 | 211.67 | 0.00 | 552.56 | 212.24 | 0.00 | 554.05 | 212.81 | 0.00 | 555.54 | 213.38 | 0.00 | 557.03 | 213.95 | 0.00 | 558.52 | 214.52 | 0.00 | 560.01 | 215.09 | 0.00 | 561.50 | 215.66 | 0.00 | 563.00 | 216.23 | 0.00 | 564.49 | 216.80 | 0.00 | 565.98 | 217.37 | 0.00 | 567.47 | 217.94 | 0.00 | 568.96 | 218.51 | 0.00 | 570.45 | 219.08 | 0.00 | 571.94 | 219.65 | 0.00 | 573.43 | 220.22 | 0.00 | 574.92 | 220.79 | 0.00 | 576.41 | 221.36 | 0.00 | 577.90 | 221.93 | 0.00 | 579.39 | 222.50 | 0.00 | 580.88 | 223.07 | 0.00 | 582.37 | 223.64 | 0.00 | 583.86 | 22 |

## CVA924

11

CVA925  
DETAILED COOLING CAPACITIES# – EFFICIENCY MODE CONTINUED

| EDB<br>°F<br>(°C) | EVAIP<br>AIR | CVA925 / FCM4X48***L Efficiency Mode<br>Condenser Entering Air Temperature °F (°C) |                                      |                       |                |                                      |                       |                |                                      |                       |                |                                      |                       |                |                                      |                       |                |                                      |                       |                |                                      |                       |       |       |      |  |
|-------------------|--------------|------------------------------------------------------------------------------------|--------------------------------------|-----------------------|----------------|--------------------------------------|-----------------------|----------------|--------------------------------------|-----------------------|----------------|--------------------------------------|-----------------------|----------------|--------------------------------------|-----------------------|----------------|--------------------------------------|-----------------------|----------------|--------------------------------------|-----------------------|-------|-------|------|--|
|                   |              | 115 (46.1)                                                                         |                                      |                       |                | 105 (40.5)                           |                       |                |                                      | 95 (35)               |                |                                      |                       | 85 (29.4)      |                                      |                       |                | 75 (23.9)                            |                       |                |                                      | 65 (18.3)             |       |       |      |  |
|                   |              | ID<br>SCF<br>M                                                                     | Capacity MBtuh<br>Total<br>Sens<br>‡ | Total<br>Sys.<br>KW** | ID<br>SCF<br>M | Capacity MBtuh<br>Total<br>Sens<br>‡ | Total<br>Sys.<br>KW** | ID<br>SCF<br>M | Capacity MBtuh<br>Total<br>Sens<br>‡ | Total<br>Sys.<br>KW** | ID<br>SCF<br>M | Capacity MBtuh<br>Total<br>Sens<br>‡ | Total<br>Sys.<br>KW** | ID<br>SCF<br>M | Capacity MBtuh<br>Total<br>Sens<br>‡ | Total<br>Sys.<br>KW** | ID<br>SCF<br>M | Capacity MBtuh<br>Total<br>Sens<br>‡ | Total<br>Sys.<br>KW** | ID<br>SCF<br>M | Capacity MBtuh<br>Total<br>Sens<br>‡ | Total<br>Sys.<br>KW** |       |       |      |  |
| 75<br>(23.9)      | 72<br>(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<br>(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<br>(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<br>(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<br>(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<br>(26.7)      | 67<br>(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<br>(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<br>(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<br>(22.2) |                                                                                    | 15.55                                | 6.67                  | 1.25           |                                      | 16.54                 | 7.02           | 1.17                                 |                       | 17.29          | 7.30                                 | 1.03                  |                | 18.23                                | 7.64                  | 0.91           |                                      | 19.14                 | 7.98           | 0.77                                 |                       | 20.05 | 8.32  | 0.61 |  |
| 75<br>(23.9)      | 67<br>(19.4) | 650                                                                                | 14.11                                | 9.43                  | 1.25           | 650                                  | 15.02                 | 9.82           | 1.18                                 | 650                   | 15.76          | 10.15                                | 1.05                  | 650            | 16.63                                | 10.52                 | 0.95           | 650                                  | 17.47                 | 10.89          | 0.82                                 | 650                   | 18.29 | 11.25 | 0.67 |  |
|                   | 63<br>(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<br>(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<br>(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 |  |
|                   | 67<br>(19.4) |                                                                                    | 14.07                                | 12.14                 | 1.25           |                                      | 14.97                 | 12.56          | 1.18                                 |                       | 15.70          | 12.91                                | 1.05                  |                | 16.56                                | 13.31                 | 0.94           |                                      | 17.39                 | 13.70          | 0.82                                 |                       | 18.21 | 14.09 | 0.67 |  |
| 80<br>(26.7)      | 63<br>(17.2) | 650                                                                                | 13.49                                | 13.49                 | 1.25           | 650                                  | 14.23                 | 14.23          | 1.19                                 | 650                   | 14.84          | 14.84                                | 1.06                  | 650            | 15.54                                | 15.49                 | 0.96           | 650                                  | 16.30                 | 15.95          | 0.84                                 | 650                   | 17.05 | 16.38 | 0.71 |  |
|                   | 57<br>(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<br>(22.2) |                                                                                    | 12.12                                | 5.39                  | 0.73           |                                      | 12.92                 | 5.68           | 0.75                                 |                       | 10.55          | 4.66                                 | 0.46                  |                | 11.18                                | 4.89                  | 0.44           |                                      | 11.84                 | 5.13           | 0.39                                 |                       | 12.52 | 5.37  | 0.28 |  |
|                   | 67<br>(19.4) |                                                                                    | 10.98                                | 7.95                  | 0.74           |                                      | 11.73                 | 8.27           | 0.77                                 |                       | 9.58           | 6.85                                 | 0.47                  |                | 10.16                                | 7.10                  | 0.47           |                                      | 10.74                 | 7.35           | 0.43                                 |                       | 11.36 | 7.61  | 0.34 |  |
| 75<br>(23.9)      | 63<br>(17.2) | 650                                                                                | 10.22                                | 9.94                  | 0.74           | 650                                  | 10.91                 | 10.29          | 0.77                                 | 585                   | 8.93           | 8.56                                 | 0.49                  | 585            | 9.46                                 | 8.83                  | 0.49           | 585                                  | 10.00                 | 9.10           | 0.46                                 | 585                   | 10.55 | 9.37  | 0.38 |  |
|                   | 57<br>(13.9) |                                                                                    | 10.14                                | 10.14                 | 0.74           |                                      | 10.74                 | 10.74          | 0.78                                 |                       | 8.82           | 8.82                                 | 0.49                  |                | 9.29                                 | 9.29                  | 0.50           |                                      | 9.75                  | 9.75           | 0.47                                 |                       | 10.21 | 10.21 | 0.40 |  |
|                   | 72<br>(22.2) |                                                                                    | 11.99                                | 7.94                  | 0.73           |                                      | 12.79                 | 8.25           | 0.75                                 |                       | 10.41          | 6.81                                 | 0.46                  |                | 11.06                                | 7.06                  | 0.44           |                                      | 11.73                 | 7.32           | 0.38                                 |                       | 12.41 | 7.59  | 0.28 |  |
|                   | 67<br>(19.4) |                                                                                    | 10.97                                | 10.45                 | 0.74           |                                      | 11.70                 | 10.80          | 0.76                                 |                       | 9.55           | 8.98                                 | 0.47                  |                | 10.13                                | 9.25                  | 0.47           |                                      | 10.71                 | 9.53           | 0.43                                 |                       | 11.32 | 9.81  | 0.34 |  |
|                   | 63<br>(17.2) |                                                                                    | 10.83                                | 10.83                 | 0.74           |                                      | 11.46                 | 11.46          | 0.77                                 |                       | 9.40           | 9.40                                 | 0.48                  |                | 9.89                                 | 9.89                  | 0.48           |                                      | 10.37                 | 10.37          | 0.44                                 |                       | 10.87 | 10.87 | 0.36 |  |
| 80<br>(26.7)      | 57<br>(13.9) | 650                                                                                | 10.82                                | 10.82                 | 0.74           | 650                                  | 11.44                 | 11.44          | 0.77                                 | 585                   | 9.39           | 9.39                                 | 0.48                  | 585            | 9.87                                 | 9.87                  | 0.48           | 585                                  | 10.35                 | 10.35          | 0.44                                 | 585                   | 10.85 | 10.85 | 0.36 |  |

CVA925  
DETAILED COOLING CAPACITIES# – COMFORT + DEHUMIDIFY MODE CONTINUED

| EDB<br>°F (°C) | EVAP AIR<br>°F (°C) | CVA925 / FCM4X48***L Comfort + Dehumidify Mode<br>Condenser Entering Air Temperature °F (°C) |                |               |             |                |                |               |             |                |                |               |             |                |                |               |             |
|----------------|---------------------|----------------------------------------------------------------------------------------------|----------------|---------------|-------------|----------------|----------------|---------------|-------------|----------------|----------------|---------------|-------------|----------------|----------------|---------------|-------------|
|                |                     | 105 (40.5)                                                                                   |                |               |             | 95 (35)        |                |               |             | 85 (29.9)      |                |               |             | 75 (23.9)      |                |               |             |
|                |                     | Capacity MBtuh                                                                               |                | Total Sys. KW |             | Capacity MBtuh |                | Total Sys. KW |             | Capacity MBtuh |                | Total Sys. KW |             | Capacity MBtuh |                | Total Sys. KW |             |
|                |                     | ID SCFM                                                                                      | Capacity Total | MBtuh Sensit  | MBtuh Total | ID SCFM        | Capacity Total | MBtuh Sensit  | MBtuh Total | ID SCFM        | Capacity Total | MBtuh Sensit  | MBtuh Total | ID SCFM        | Capacity Total | MBtuh Sensit  | MBtuh Total |
| 75<br>(23.9)   | 72<br>(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        |
|                | 67<br>(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        |
|                | 63<br>(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        |
|                | 57<br>(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        |
|                | 72<br>(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        |
| 80<br>(26.7)   | 67<br>(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        |
|                | 63<br>(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        |
|                | 57<br>(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        |
|                | 72<br>(22.2)        |                                                                                              | 15.62          | 6.37          | 1.16        |                | 16.33          | 6.64          | 1.03        | 437            | 17.27          | 7.02          | 0.91        | 475            | 18.26          | 7.42          | 0.78        |
|                | 67<br>(19.4)        |                                                                                              | 14.19          | 8.25          | 1.17        |                | 14.88          | 8.57          | 1.04        |                | 15.74          | 9.03          | 0.94        |                | 16.66          | 9.56          | 0.82        |
| 75<br>(23.9)   | 63<br>(17.2)        | 437                                                                                          | 13.12          | 9.74          | 1.18        |                | 13.79          | 10.07         | 1.05        |                | 14.60          | 10.61         | 0.96        |                | 15.46          | 11.23         | 0.85        |
|                | 57<br>(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        |
|                | 72<br>(22.2)        |                                                                                              | 15.55          | 8.23          | 1.16        |                | 16.25          | 8.52          | 1.02        | 452            | 17.19          | 8.98          | 0.91        | 475            | 18.17          | 9.50          | 0.78        |
|                | 67<br>(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        |
|                | 63<br>(17.2)        |                                                                                              | 13.11          | 11.59         | 1.18        |                | 13.77          | 11.94         | 1.05        |                | 14.58          | 12.56         | 0.96        |                | 15.44          | 13.30         | 0.85        |
| 80<br>(26.7)   | 57<br>(13.9)        | 437                                                                                          | 12.51          | 12.51         | 1.18        |                | 13.05          | 13.05         | 1.05        |                | 13.78          | 13.78         | 0.97        |                | 14.60          | 14.60         | 0.86        |
|                | 72<br>(22.2)        |                                                                                              | 6.36           | 2.59          | 0.47        | 250            | 9.26           | 3.75          | 0.47        | 250            | 9.75           | 3.95          | 0.47        | 250            | 10.23          | 4.15          | 0.43        |
|                | 67<br>(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        |
|                | 63<br>(17.2)        |                                                                                              | 9.90           | 7.24          | 0.76        |                | 7.74           | 5.40          | 0.49        |                | 8.15           | 5.61          | 0.51        |                | 8.56           | 5.83          | 0.49        |
|                | 57<br>(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        |
| 75<br>(23.9)   | 72<br>(22.2)        | 342                                                                                          | 11.79          | 6.17          | 0.75        | 250            | 9.23           | 4.68          | 0.47        | 250            | 9.72           | 4.88          | 0.47        | 250            | 10.20          | 5.09          | 0.43        |
|                | 67<br>(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        |
|                | 63<br>(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        |
|                | 57<br>(13.9)        |                                                                                              | 9.35           | 9.35          | 0.77        |                | 7.09           | 7.09          | 0.49        |                | 7.40           | 7.40          | 0.52        |                | 7.70           | 7.70          | 0.51        |
|                | 72<br>(22.2)        |                                                                                              | 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        |
| 80<br>(26.7)   | 67<br>(19.4)        | 342                                                                                          | 10.72          | 6.18          | 0.76        |                | 8.13           | 4.46          | 0.48        |                | 8.68           | 4.76          | 0.50        |                | 9.04           | 4.92          | 0.48        |
|                | 63<br>(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        |
|                | 57<br>(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        |
|                | 72<br>(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        |
|                | 67<br>(19.4)        |                                                                                              | 10.69          | 7.53          | 0.76        | 222            | 8.11           | 5.28          | 0.48        |                | 8.66           | 5.63          | 0.50        | 245            | 9.02           | 5.78          | 0.48        |
| 75<br>(23.9)   | 63<br>(17.2)        | 342                                                                                          | 9.88           | 8.60          | 0.76        |                | 7.48           | 5.91          | 0.49        |                | 7.99           | 6.31          | 0.51        |                | 8.33           | 6.44          | 0.50        |
|                | 57<br>(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        |
|                | 72<br>(22.2)        |                                                                                              | 3.18           | 1.29          | 0.24        | 222            | 8.99           | 3.64          | 0.47        |                | 9.59           | 3.89          | 0.48        |                | 9.99           | 4.06          | 0.44        |
|                | 67<br>(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        |
|                | 63<br>(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        |
| 80<br>(26.7)   | 57<br>(13.9)        | 342                                                                                          | 8.82           | 8.81          | 0.77        |                | 6.63           | 6.02          | 0.49        |                | 7.09           | 6.43          | 0.52        |                | 7.39           | 6.56          | 0.52        |
|                | 72<br>(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        |
|                | 67<br>(19.4)        |                                                                                              | 10.69          | 7.53          | 0.76        | 222            | 8.11           | 5.28          | 0.48        |                | 8.66           | 5.63          | 0.50        | 245            | 9.02           | 5.78          | 0.48        |
|                | 63<br>(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        |
|                | 57<br>(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        |

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 outdoor.

See additional notes on page 28

## CVA925

See notes on page 28

**421 14 5800 02**

| EDB<br>°F<br>(°C) | EVA<br>P<br>AIR | CVA936 / FCM4X48*** 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<br>SCFM                                 | Capacity MBtuh<br>Total | Total<br>S<br>KW** | ID<br>SCFM | Capacity MBtuh<br>Total | Capacity MBtuh<br>Sensit | Total<br>S<br>KW** | ID<br>SCFM | Capacity MBtuh<br>Total | Capacity MBtuh<br>Sensit | Total<br>S<br>KW** | ID<br>SCFM | Capacity MBtuh<br>Total | Capacity MBtuh<br>Sensit | Total<br>S<br>KW** | ID<br>SCFM | Capacity MBtuh<br>Total | Capacity MBtuh<br>Sensit | Total<br>S<br>KW** |       |           |       |       |       |      |  |
| 75<br>(23.9)      | EWB<br>°F (°C)  | 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                      | 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                      | 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                      | 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                      | 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<br>(26.7)      | EWB<br>°F (°C)  | 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  |      |  |
|                   |                 |                                            | 67                      | 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 |  |
|                   |                 |                                            | 63                      | 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 |  |
|                   |                 |                                            | 57                      | STAGE 3            |            |                         |                          |                    |            |                         |                          |                    |            |                         |                          |                    |            |                         |                          |                    |       |           |       |       |       |      |  |
|                   |                 |                                            | 72                      |                    |            |                         |                          |                    |            |                         |                          |                    |            |                         |                          |                    |            |                         |                          |                    |       |           |       |       |       |      |  |
| 75<br>(23.9)      | EWB<br>°F (°C)  | 900                                        | 21.81                   | 9.32               | 1.96       | 900                     | 23.25                    | 9.85               | 1.83       | 900                     | 24.29                    | 10.24              | 1.67       | 900                     | 25.66                    | 10.75              | 1.50       | 900                     | 27.01                    | 11.26              | 1.31  | 900       | 28.33 | 11.75 | 1.10  |      |  |
|                   |                 |                                            | 67                      | 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 |  |
|                   |                 |                                            | 63                      | 18.41              | 16.08      |                         | 1.95                     | 19.66              | 16.73      |                         | 1.85                     | 20.68              | 17.29      |                         | 1.68                     | 21.87              | 17.91      |                         | 1.54                     | 23.02              | 18.53 |           | 1.37  | 24.16 | 19.14 | 1.19 |  |
|                   |                 |                                            | 57                      | 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                      | 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 |  |
| 80<br>(26.7)      | EWB<br>°F (°C)  | 900                                        | 19.77                   | 16.83              | 1.95       | 900                     | 21.09                    | 17.48              | 1.84       | 900                     | 22.11                    | 18.01              | 1.67       | 900                     | 23.37                    | 18.64              | 1.52       | 900                     | 24.60                    | 19.26              | 1.35  | 900       | 25.82 | 19.87 | 1.15  |      |  |
|                   |                 |                                            | 67                      | 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 |  |
|                   |                 |                                            | 63                      | 18.83              | 18.83      |                         | 1.95                     | 19.91              | 19.91      |                         | 1.84                     | 20.79              | 20.79      |                         | 1.68                     | 21.82              | 21.82      |                         | 1.53                     | 22.82              | 22.82 |           | 1.37  | 23.80 | 23.80 | 1.20 |  |
|                   |                 |                                            | 57                      | STAGE 1            |            |                         |                          |                    |            |                         |                          |                    |            |                         |                          |                    |            |                         |                          |                    |       |           |       |       |       |      |  |
|                   |                 |                                            | 72                      |                    |            |                         |                          |                    |            |                         |                          |                    |            |                         |                          |                    |            |                         |                          |                    |       |           |       |       |       |      |  |
| 75<br>(23.9)      | EWB<br>°F (°C)  | 800                                        | 14.74                   | 6.58               | 0.98       | 800                     | 15.80                    | 6.96               | 1.00       | 600                     | 10.82                    | 4.81               | 0.48       | 600                     | 11.57                    | 5.09               | 0.46       | 600                     | 12.38                    | 5.38               | 0.39  | 600       | 13.21 | 5.69  | 0.27  |      |  |
|                   |                 |                                            | 67                      | 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                      | 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                      | 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 |  |
|                   |                 |                                            | 72                      | 14.58              | 9.69       |                         | 0.97                     | 15.63              | 10.12      |                         | 1.00                     | 10.67              | 7.06       |                         | 0.47                     | 11.46              | 7.39       |                         | 0.46                     | 12.27              | 7.73  |           | 0.39  | 13.08 | 8.07  | 0.27 |  |
| 80<br>(26.7)      | EWB<br>°F (°C)  | 800                                        | 13.36                   | 12.75              | 0.98       | 800                     | 14.32                    | 13.27              | 1.02       | 600                     | 9.80                     | 9.32               | 0.49       | 600                     | 10.49                    | 9.70               | 0.49       | 600                     | 11.21                    | 10.08              | 0.44  | 600       | 11.95 | 10.47 | 0.34  |      |  |
|                   |                 |                                            | 67                      | 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 |  |
|                   |                 |                                            | 63                      | 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 |  |
|                   |                 |                                            | 57                      |                    |            |                         |                          |                    |            |                         |                          |                    |            |                         |                          |                    |            |                         |                          |                    |       |           |       |       |       |      |  |
|                   |                 |                                            | 72                      |                    |            |                         |                          |                    |            |                         |                          |                    |            |                         |                          |                    |            |                         |                          |                    |       |           |       |       |       |      |  |

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.

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

See additional notes on page 28

CVA936 / FCM4X48\*\*\*L Comfort + Dehumidify Mode CONTINUED

| EDB<br>°F (°C) | EVAP AIR                                | CVA936 / FCM4X48***L Comfort + Dehumidify Mode |                         |        |                  |         |                         |        |                  |           |                         |        |                  |           |                         |        |                  |           |                         |        |                  |     |       |       |      |  |
|----------------|-----------------------------------------|------------------------------------------------|-------------------------|--------|------------------|---------|-------------------------|--------|------------------|-----------|-------------------------|--------|------------------|-----------|-------------------------|--------|------------------|-----------|-------------------------|--------|------------------|-----|-------|-------|------|--|
|                |                                         | Condenser Entering Air Temperature °F (°C)     |                         |        |                  |         |                         |        |                  |           |                         |        |                  |           |                         |        |                  |           |                         |        |                  |     |       |       |      |  |
|                |                                         | 105 (40.5)                                     |                         |        |                  | 95 (35) |                         |        |                  | 85 (23.9) |                         |        |                  | 75 (23.9) |                         |        |                  | 65 (18.3) |                         |        |                  |     |       |       |      |  |
|                |                                         | ID SCFM                                        | Capacity MBtuh<br>Total | Sensit | Total Sys.<br>KW | ID SCFM | Capacity MBtuh<br>Total | Sensit | Total Sys.<br>KW | ID SCFM   | Capacity MBtuh<br>Total | Sensit | Total Sys.<br>KW | ID SCFM   | Capacity MBtuh<br>Total | Sensit | Total Sys.<br>KW | ID SCFM   | Capacity MBtuh<br>Total | Sensit | Total Sys.<br>KW |     |       |       |      |  |
| 75<br>(23.9)   | 72<br>(22.2)                            | 812                                            | 35.03                   | 14.21  | 3.80             | 36.79   | 14.91                   | 3.28   | 38.97            | 15.79     | 2.81                    | 41.14  | 16.67            | 2.38      | 948                     | 948    | 948              | 948       | 948                     | 948    | 948              | 948 |       |       |      |  |
|                | 67<br>(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<br>(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<br>(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<br>(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<br>(26.7)   | 67<br>(19.4)                            | 812                                            | 31.95                   | 21.83  | 3.75             | 33.60   | 22.64                   | 3.25   | 35.61            | 23.95     | 2.81                    | 37.60  | 25.30            | 2.39      | 948                     | 948    | 948              | 948       | 948                     | 948    | 948              | 948 |       |       |      |  |
|                | 63<br>(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<br>(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<br>(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<br>(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<br>(23.9)   | 63<br>(17.2)                            | 566                                            | 18.28                   | 13.20  | 1.80             | 19.22   | 13.70                   | 1.63   | 20.51            | 14.65     | 1.50                    | 21.73  | 15.51            | 1.35      | 664                     | 664    | 664              | 664       | 664                     | 664    | 664              | 664 |       |       |      |  |
|                | 57<br>(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<br>(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<br>(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<br>(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<br>(26.7)   | 57<br>(13.9)                            | 17.18                                          | 17.18                   | 1.80   | 17.96            | 17.96   | 1.63                    | 19.20  | 19.20            | 1.50      | 20.34                   | 20.34  | 1.36             | 21.61     | 21.61                   | 1.20   |                  |           |                         |        |                  |     |       |       |      |  |
|                | STAGE 1 – FCM4X48*** ONLY               |                                                |                         |        |                  |         |                         |        |                  |           |                         |        |                  |           |                         |        |                  |           |                         |        |                  |     |       |       |      |  |
|                | 72<br>(22.2)                            | 417                                            | 14.50                   | 5.90   | 0.99             | 9.48    | 3.84                    | 0.49   | 10.07            | 4.08      | 0.49                    | 10.66  | 4.32             | 0.45      | 267                     | 267    | 267              | 267       | 267                     | 267    | 267              | 267 |       |       |      |  |
|                | 67<br>(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<br>(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<br>(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  |      |  |
| 72<br>(22.2)   | 14.44                                   |                                                | 7.57                    | 0.99   | 9.44             | 4.79    | 0.49                    | 10.03  | 5.04             | 0.49      | 10.62                   | 5.30   | 0.45             | 11.43     |                         |        |                  |           |                         |        |                  |     | 5.71  | 0.35  |      |  |
| 80<br>(26.7)   | 67<br>(19.4)                            | 417                                            | 13.13                   | 9.25   | 1.00             | 8.56    | 5.73                    | 0.50   | 9.10             | 6.01      | 0.52                    | 9.64   | 6.28             | 0.49      | 267                     | 267    | 267              | 267       | 267                     | 267    | 267              | 267 |       |       |      |  |
|                | 63<br>(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      |                         |        |                  |           |                         |        |                  |     | 10.36 | 6.78  | 0.41 |  |
|                | 57<br>(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      |                         |        |                  |           |                         |        |                  |     | 9.58  | 7.61  | 0.45 |  |
|                | 72<br>(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<br>(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 |  |
| 75<br>(23.9)   | 63<br>(17.2)                            | 236                                            | 12.18                   | 8.91   | 1.00             | 7.80    | 5.37                    | 0.51   | 8.25             | 5.59      | 0.53                    | 8.88   | 6.02             | 0.51      | 246                     | 246    | 246              | 246       | 246                     | 246    | 246              | 246 |       |       |      |  |
|                | 57<br>(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<br>(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<br>(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<br>(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 |  |
| 80<br>(26.7)   | 57<br>(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 |                                                |                         |        |                  |         |                         |        |                  |           |                         |        |                  |           |                         |        |                  |           |                         |        |                  |     |       |       |      |  |
|                | 72<br>(22.2)                            | 417                                            | 14.50                   | 5.90   | 0.99             | 9.35    | 3.79                    | 0.49   | 9.88             | 4.01      | 0.50                    | 10.62  | 4.30             | 0.45      | 267                     | 267    | 267              | 267       | 267                     | 267    | 267              | 267 |       |       |      |  |
|                | 67<br>(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<br>(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<br>(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<br>(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  |      |  |
| 75<br>(23.9)   | 67<br>(19.4)                            | 417                                            | 13.13                   | 9.25   | 1.00             | 8.44    | 5.57                    | 0.50   | 8.92             | 5.79      | 0.52                    | 9.60   | 6.23             | 0.49      | 267                     | 267    | 267              | 267       | 267                     | 267    | 267              | 267 |       |       |      |  |
|                | 63<br>(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      |                         |        |                  |           |                         |        |                  |     | 10.36 | 6.78  | 0.41 |  |
|                | 57<br>(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      |                         |        |                  |           |                         |        |                  |     | 9.58  | 7.61  | 0.45 |  |
|                | 72<br>(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<br>(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 |  |
| 80<br>(26.7)   | 63<br>(17.2)                            | 236                                            | 12.18                   | 8.91   | 1.00             | 7.80    | 5.37                    | 0.51   | 8.25             | 5.59      | 0.53                    | 8.88   | 6.02             | 0.51      | 246                     | 246    | 246              | 246       | 246                     | 246    | 246              | 246 |       |       |      |  |
|                | 57<br>(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<br>(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<br>(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<br>(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 |  |
| 80<br>(26.7)   | 57<br>(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   |                  |           |                         |        |                  |     |       |       |      |  |



## CVA936

| COOLING INDOOR MODEL | CAPACITY | POWER | FURNACE MODEL   |
|----------------------|----------|-------|-----------------|
| FOMA X36***L         | 1.00     | 1.00  |                 |
| FOMA X36***L         | 0.97     | 0.97  |                 |
| FOMA X60***L         | 0.99     | 0.99  |                 |
| FOMA X24***L         | 0.96     | 1.01  |                 |
| EA*4X36L114*         | 0.98     | 1.03  | *8MV*0701412**  |
| EA*4X36L117A*        | 0.97     | 1.02  | *9MA*0601714A** |
| EA*4X36L17A*         | 0.98     | 1.03  | *9MA*0801714A** |
| EA*4X36L17A*         | 0.98     | 0.98  | *8MV*0901716**  |
| EA*4X36L21A*         | 0.98     | 1.03  | *9MA*0602120A** |
| EA*4X36L21A*         | 0.98     | 1.03  | *9MA*0802120A** |
| EA*4X36L21A*         | 0.98     | 0.98  | *9MA*1002122A** |
| EA*4X36L21A*         | 0.98     | 0.98  | *9MA*1002122A** |
| EA*4X36L21A*         | 0.96     | 1.01  | *9MA*0801714A** |
| EA*4X42L21A*         | 0.97     | 1.01  | *9MA*0602120A** |
| EA*4X42L21A*         | 0.97     | 1.01  | *9MA*0802120A** |
| EA*4X42L21A*         | 0.97     | 0.97  | *9MA*1002122A** |
| EA*4X48L117A*        | 0.98     | 1.03  | *9MA*0601714A** |
| EA*4X48L17A*         | 0.98     | 1.03  | *9MA*0801714A** |
| EA*4X48L17A*         | 0.98     | 0.98  | *8MV*0901716**  |
| EA*4X48L21A*         | 0.98     | 1.03  | *9MA*0602120A** |
| EA*4X48L21A*         | 0.98     | 0.98  | *9MA*0802120A** |
| EA*4X60L21A*         | 0.99     | 0.99  | *9MA*1002122A** |
| ENH4X36L17**         | 0.95     | 1.05  | *9MA*1002122A** |
| ENH4X36L17**         | 0.95     | 1.05  | *9MA*0801714A** |
| ENH4X36L17**         | 0.95     | 1.00  | *8MV*0901716**  |
| ENH4X42L21**         | 0.96     | 1.06  | *9MA*0602120A** |
| ENH4X42L21**         | 0.96     | 1.01  | *9MA*0802120A** |
| ENH4X42L21**         | 0.96     | 1.01  | *9MA*1002122A** |
| ENH4X43L21**         | 0.98     | 1.03  | *9MA*0602120A** |
| ENH4X43L21**         | 0.98     | 1.03  | *9MA*0802120A** |
| ENH4X43L21**         | 0.98     | 0.99  | *9MA*1002122A** |
| ENH4X48L21**         | 0.97     | 1.02  | *9MA*0602120A** |
| ENH4X48L21**         | 0.98     | 1.03  | *9MA*0802120A** |
| ENH4X48L21**         | 0.98     | 0.98  | *9MA*1002122A** |
| ENH4X60L24**         | 0.99     | 0.99  | *9MA*1002122A** |
| ENIA.D.WH.X36L17**   | 0.95     | 1.05  | *9MA*0601714A** |
| ENIA.D.WH.X36L17**   | 0.95     | 1.00  | *9MA*0801714A** |
| ENIA.D.WH.X36L17**   | 0.95     | 1.00  | *8MV*0901716**  |
| ENIA.D.WH.X36L21**   | 0.95     | 1.00  | *9MA*0602120A** |
| ENIA.D.WH.X36L21**   | 0.95     | 1.00  | *9MA*0802120A** |
| ENIA.D.WH.X36L21**   | 0.96     | 1.01  | *9MA*1002122A** |
| ENIA.D.WH.X37L17**   | 0.97     | 1.02  | *9MA*0601714A** |
| ENIA.D.WH.X37L17**   | 0.97     | 1.02  | *9MA*0801714A** |
| ENIA.D.WH.X37L17**   | 0.97     | 0.97  | *8MV*0901716**  |
| ENIA.D.WH.X42L17**   | 0.95     | 1.00  | *9MA*0601714A** |
| ENIA.D.WH.X42L17**   | 0.96     | 1.01  | *9MA*0801714A** |
| ENIA.D.WH.X42L21**   | 0.97     | 0.97  | *8MV*0901716**  |
| ENIA.D.WH.X42L21**   | 0.95     | 1.00  | *9MA*0602120A** |
| ENIA.D.WH.X42L21**   | 0.95     | 1.00  | *9MA*0802120A** |
| ENIA.D.WH.X42L21**   | 0.95     | 1.05  | *9MA*1002122A** |
| ENIA.D.WH.X42L21**   | 0.96     | 1.01  | *9MA*0602120A** |
| ENIA.D.WH.X42L21**   | 0.96     | 1.01  | *9MA*0802120A** |
| ENIA.D.WH.X42L21**   | 0.96     | 0.99  | *9MA*1002122A** |
| ENIA.D.WH.X43L24**   | 0.98     | 0.99  | *9MA*0602120A** |
| ENIA.D.WH.X43L24**   | 0.97     | 1.01  | *9MA*0802120A** |
| ENIA.D.WH.X48L21**   | 0.97     | 0.97  | *9MA*0602120A** |
| ENIA.D.WH.X48L21**   | 0.97     | 1.02  | *9MA*0802120A** |
| ENIA.D.WH.X48L21**   | 0.97     | 1.02  | *9MA*1002122A** |

See notes on page 28

CVA937  
DETAILED COOLING CAPACITIES# – EFFICIENCY MODE CONTINUED

| EVB<br>AIR<br>F (°C) |              | CVA937 / FCMA460***L Efficiency Mode<br>Condenser Entering Air Temperature °F (°C) |                   |                       |            |                   |                       |            |                   |                       |            |                   |                       |            |                   |                       |            |                   |                       |            |                   |                       |            |                   |                       |
|----------------------|--------------|------------------------------------------------------------------------------------|-------------------|-----------------------|------------|-------------------|-----------------------|------------|-------------------|-----------------------|------------|-------------------|-----------------------|------------|-------------------|-----------------------|------------|-------------------|-----------------------|------------|-------------------|-----------------------|------------|-------------------|-----------------------|
|                      |              | 115 (46.1)                                                                         |                   |                       |            | 105 (40.5)        |                       |            |                   | 95 (35)               |            |                   |                       | 85 (29.4)  |                   |                       |            | 75 (23.9)         |                       |            |                   | 65 (18.3)             |            |                   |                       |
|                      |              | ID<br>SCFM                                                                         | Capacity<br>MBtuh | Total<br>Sys.<br>KW** | ID<br>SCFM | Capacity<br>MBtuh | Total<br>Sys.<br>KW** | ID<br>SCFM | Capacity<br>MBtuh | Total<br>Sys.<br>KW** | ID<br>SCFM | Capacity<br>MBtuh | Total<br>Sys.<br>KW** | ID<br>SCFM | Capacity<br>MBtuh | Total<br>Sys.<br>KW** | ID<br>SCFM | Capacity<br>MBtuh | Total<br>Sys.<br>KW** | ID<br>SCFM | Capacity<br>MBtuh | Total<br>Sys.<br>KW** | ID<br>SCFM | Capacity<br>MBtuh | Total<br>Sys.<br>KW** |
| 75<br>(23.9)         | 72<br>(22.2) | 1050                                                                               | 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<br>(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<br>(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<br>(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<br>(22.2) |                                                                                    | 32.58             | 18.47                 | 3.49       |                   | 34.86                 | 19.41      | 3.05              |                       | 36.91      | 20.26             | 2.59                  |            | 39.14             | 21.19                 | 2.21       |                   | 41.32                 | 22.11      | 1.86              |                       | 43.48      | 23.02             | 1.54                  |
| 80<br>(26.7)         | 67<br>(19.4) | 1050                                                                               | 31.43             | 24.01                 | 3.08       | 1050              | 31.71                 | 24.30      | 3.03              | 1050                  | 33.60      | 25.24             | 2.58                  | 1050       | 35.61             | 26.24                 | 2.21       | 1050              | 37.59                 | 27.23      | 1.87              | 1050                  | 39.55      | 28.22             | 1.56                  |
|                      | 63<br>(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<br>(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<br>(22.2) |                                                                                    | 22.96             | 9.72                  | 2.41       |                   | 24.70                 | 10.37      | 2.11              |                       | 26.36      | 10.99             | 1.76                  |            | 28.08             | 11.65                 | 1.50       |                   | 29.77                 | 12.29      | 1.25              |                       | 31.45      | 12.93             | 1.03                  |
|                      | 67<br>(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                  |
| 80<br>(26.7)         | 63<br>(17.2) | 900                                                                                | 19.24             | 16.44                 | 2.42       | 900               | 20.68                 | 17.23      | 2.14              | 900                   | 22.09      | 18.01             | 1.80                  | 900        | 23.50             | 18.79                 | 1.56       | 900               | 24.89                 | 19.57      | 1.34              | 900                   | 26.28      | 20.35             | 1.13                  |
|                      | 57<br>(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<br>(22.2) |                                                                                    | 22.86             | 13.49                 | 2.41       |                   | 24.60                 | 14.23      | 2.11              |                       | 26.26      | 14.93             | 1.76                  |            | 27.98             | 15.67                 | 1.50       |                   | 29.67                 | 16.39      | 1.25              |                       | 31.35      | 17.12             | 1.03                  |
|                      | 67<br>(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<br>(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                  |
| 80<br>(26.7)         | 57<br>(13.9) | 900                                                                                | 19.53             | 19.53                 | 2.42       | 900               | 20.79                 | 20.79      | 2.14              | 900                   | 22.01      | 22.01             | 1.80                  | 900        | 23.22             | 23.22                 | 1.56       | 900               | 24.42                 | 24.42      | 1.34              | 900                   | 25.59      | 25.59             | 1.14                  |
|                      | 72<br>(22.2) |                                                                                    | 18.16             | 7.73                  | 1.96       |                   | 19.62                 | 8.28       | 1.73              |                       | 15.04      | 6.28              | 0.87                  |            | 16.16             | 6.71                  | 0.72       |                   | 17.28                 | 7.14       | 0.57              |                       | 18.39      | 7.57              | 0.43                  |
|                      | 67<br>(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<br>(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<br>(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                  |
| 80<br>(26.7)         | 72<br>(22.2) | 800                                                                                | 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                  |
|                      | 67<br>(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<br>(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<br>(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                  |
|                      | 72<br>(22.2) |                                                                                    | 18.16             | 7.73                  | 1.96       |                   | 19.62                 | 8.28       | 1.73              |                       | 15.04      | 6.28              | 0.87                  |            | 16.16             | 6.71                  | 0.72       |                   | 17.28                 | 7.14       | 0.57              |                       | 18.39      | 7.57              | 0.43                  |

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<br>°F (°C) | EVAP AIR<br>°F (°C)                     | CVA937 / FCMA4X60***L Comfort + Dehumidify Mode<br>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† |         |               |
| 75 (23.9)      | 72 (22.2)                               | 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)                               | 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    |               |
|                | STAGE 3                                 |                                                                                               |       |         |               |                |       |         |               |                |       |         |               |                |       |         |               |                |       |         |               |
|                | 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    |               |
| 75 (23.9)      | 67 (19.4)                               | 20.67                                                                                         | 11.68 | 2.07    | 566           | 21.98          | 12.30 | 1.74    | 600           | 23.60          | 13.23 | 1.50    | 625           | 25.16          | 14.10 | 1.28    | 665           | 26.87          | 15.10 | 1.07    |               |
|                | 63 (17.2)                               | 19.09                                                                                         | 13.58 | 2.08    |               | 20.29          | 14.24 | 1.75    |               | 21.79          | 15.33 | 1.52    |               | 23.23          | 16.32 | 1.31    |               | 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    |               |
| 80 (26.7)      | 63 (17.2)                               | 19.06                                                                                         | 15.99 | 2.08    | 566           | 20.27          | 16.70 | 1.75    | 600           | 21.76          | 17.98 | 1.52    | 625           | 23.20          | 19.14 | 1.31    | 665           | 24.77          | 20.57 | 1.11    |               |
|                | 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    |               |
|                | STAGE 1 – FCMA4X60*** ONLY              |                                                                                               |       |         |               |                |       |         |               |                |       |         |               |                |       |         |               |                |       |         |               |
|                | 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    |               |
| 75 (23.9)      | 63 (17.2)                               | 15.16                                                                                         | 10.91 | 1.74    | 500           | 12.27          | 9.39  | 0.93    | 500           | 13.14          | 9.90  | 0.80    | 500           | 14.01          | 10.41 | 0.66    | 500           | 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    |               |
|                | 72 (22.2)                               | 18.09                                                                                         | 9.36  | 1.70    |               | 14.58          | 7.89  | 0.87    |               | 15.64          | 8.36  | 0.72    |               | 16.70          | 8.83  | 0.57    |               | 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    |               |
| 80 (26.7)      | 57 (13.9)                               | 14.21                                                                                         | 14.21 | 1.74    | 500           | 11.88          | 11.88 | 0.94    | 500           | 12.62          | 12.62 | 0.81    | 500           | 13.36          | 13.36 | 0.68    | 500           | 14.09          | 14.09 | 0.57    |               |
|                | STAGE 1 – ALL OTHER INDOOR COMBINATIONS |                                                                                               |       |         |               |                |       |         |               |                |       |         |               |                |       |         |               |                |       |         |               |
|                | 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    |               |
| 75 (23.9)      | 57 (13.9)                               | 12.94                                                                                         | 11.91 | 1.74    | 236           | 8.96           | 7.52  | 0.98    | 232           | 9.45           | 7.84  | 0.87    | 246           | 10.21          | 8.50  | 0.76    | 267           | 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    |               |
|                | 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    |               |
| 80 (26.7)      | 57 (13.9)                               | 13.22                                                                                         | 13.22 | 1.74    | 417           | 8.95           | 8.40  | 0.98    | 236           | 9.44           | 8.73  | 0.87    | 246           | 10.21          | 9.47  | 0.76    | 267           | 11.09          | 10.40 | 0.65    |               |
|                | STAGE 1 – ALL OTHER INDOOR COMBINATIONS |                                                                                               |       |         |               |                |       |         |               |                |       |         |               |                |       |         |               |                |       |         |               |
|                | 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    |               |
| 75 (23.9)      | 57 (13.9)                               | 12.94                                                                                         | 11.91 | 1.74    | 236           | 8.96           | 7.52  | 0.98    | 232           | 9.45           | 7.84  | 0.87    | 246           | 10.21          | 8.50  | 0.76    | 267           | 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    |               |
|                | 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    |               |
| 80 (26.7)      | 57 (13.9)                               | 13.22                                                                                         | 13.22 | 1.74    | 417           | 8.95           | 8.40  | 0.98    | 236           | 9.44           | 8.73  | 0.87    | 246           | 10.21          | 9.47  | 0.76    | 267           | 11.09          | 10.40 | 0.65    |               |
|                | STAGE 1 – ALL OTHER INDOOR COMBINATIONS |                                                                                               |       |         |               |                |       |         |               |                |       |         |               |                |       |         |               |                |       |         |               |
|                | 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    |               |
| 75 (23.9)      | 57 (13.9)                               | 12.94                                                                                         | 11.91 | 1.74    | 236           | 8.96           | 7.52  | 0.98    | 232           | 9.45           | 7.84  | 0.87    | 246           | 10.21          | 8.50  | 0.76    | 267           | 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    |               |
|                | 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    |               |
| 80 (26.7)      | 57 (13.9)                               | 13.22                                                                                         | 13.22 | 1.74    | 417           | 8.95           | 8.40  | 0.98    | 236           | 9.44           | 8.73  | 0.87    | 246           | 10.21          | 9.47  | 0.76    | 267           | 11.09          | 10.40 | 0.65    |               |
|                | STAGE 1 – ALL OTHER INDOOR COMBINATIONS |                                                                                               |       |         |               |                |       |         |               |                |       |         |               |                |       |         |               |                |       |         |               |
|                | 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    |               |
| 75 (23.9)      | 57 (13.9)                               | 12.94                                                                                         | 11.91 | 1.74    | 236           | 8.96           | 7.52  | 0.98    | 232           | 9.45           | 7.84  | 0.87    | 246           | 10.21          | 8.50  | 0.76    | 267           | 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    |               |
|                | 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    |               |
| 80 (26.7)      | 57 (13.9)                               | 13.22                                                                                         | 13.22 | 1.74    | 417           | 8.95           | 8.40  | 0.98    | 236           | 9.44           | 8.73  | 0.87    | 246           | 10.21          | 9.47  | 0.76    | 267           | 11.09          | 10.40 | 0.65    |               |
|                | STAGE 1 – ALL OTHER INDOOR COMBINATIONS |                                                                                               |       |         |               |                |       |         |               |                |       |         |               |                |       |         |               |                |       |         |               |
|                | 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    |               |
| 75 (23.9)      | 57 (13.9)                               | 12.94                                                                                         | 11.91 | 1.74    | 236           | 8.96           | 7.52  | 0.98    | 232           | 9.45           | 7.84  | 0.87    | 246           | 10.21          | 8.50  | 0.76    | 267           | 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    |               |
|                | 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    |               |
| 80 (26.7)      | 57 (13.9)                               | 13.22                                                                                         | 13.22 | 1.74    | 417           | 8.95           | 8.40  | 0.98    | 236           | 9.44           | 8.73  | 0.87    | 246           | 10.21          | 9.47  | 0.76    | 267           | 11.09          |       |         |               |

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 outdoor.

See additional notes on page 28

**CVA937**

See notes on page 28

CVA948  
DETAILED COOLING CAPACITIES# – EFFICIENCY MODE CONTINUED

| EDB<br>°F<br>(°C) | EVA9<br>AIR  | CVA948 / FCM4X60***L Efficiency Mode<br>Condenser Entering Air Temperature °F (°C) |                |       |                       |                |                |            |                       |                |                |           |                       |                |                |       |                       |                |                |           |                       |                |                |           |                       |           |  |  |  |  |  |  |
|-------------------|--------------|------------------------------------------------------------------------------------|----------------|-------|-----------------------|----------------|----------------|------------|-----------------------|----------------|----------------|-----------|-----------------------|----------------|----------------|-------|-----------------------|----------------|----------------|-----------|-----------------------|----------------|----------------|-----------|-----------------------|-----------|--|--|--|--|--|--|
|                   |              | 115 (46.1)                                                                         |                |       |                       |                |                | 105 (40.5) |                       |                |                |           |                       | 95 (35)        |                |       |                       |                |                | 85 (23.9) |                       |                |                |           |                       | 65 (18.3) |  |  |  |  |  |  |
|                   |              | ID<br>SCF<br>M                                                                     | Capacity MBtuh |       | Total<br>Sys.<br>KW** | ID<br>SCF<br>M | Capacity MBtuh |            | Total<br>Sys.<br>KW** | ID<br>SCF<br>M | Capacity MBtuh |           | Total<br>Sys.<br>KW** | ID<br>SCF<br>M | Capacity MBtuh |       | Total<br>Sys.<br>KW** | ID<br>SCF<br>M | Capacity MBtuh |           | Total<br>Sys.<br>KW** | ID<br>SCF<br>M | Capacity MBtuh |           | Total<br>Sys.<br>KW** |           |  |  |  |  |  |  |
|                   |              | Total                                                                              | Sens<br>‡      |       | Total                 | Sens<br>‡      |                | Total      | Sens<br>‡             |                | Total          | Sens<br>‡ |                       | Total          | Sens<br>‡      |       | Total                 | Sens<br>‡      |                | Total     | Sens<br>‡             |                | Total          | Sens<br>‡ |                       |           |  |  |  |  |  |  |
| 75<br>(23.9)      | 72<br>(22.2) | 1400                                                                               | 44.82          | 18.57 | 5.52                  | 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<br>(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<br>(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<br>(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<br>(22.2) |                                                                                    | 44.80          | 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<br>(26.7)      | 67<br>(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<br>(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<br>(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        |       |                       |                |                |            |                       |                |                |           |                       |                |                |       |                       |                |                |           |                       |                |                |           |                       |           |  |  |  |  |  |  |
|                   | 75<br>(23.9) | 72<br>(22.2)                                                                       | 1200           | 29.42 | 12.62                 | 2.82           | 1200           | 31.60      | 13.43                 | 2.56           | 1200           | 33.63     | 14.20                 | 2.26           | 1200           | 35.75 | 15.00                 | 2.00           | 1200           | 37.82     | 15.78                 | 1.74           | 1200           | 39.85     | 16.55                 | 1.49      |  |  |  |  |  |  |
| 67<br>(19.4)      |              | 26.82                                                                              |                | 17.86 | 2.80                  | 28.83          |                | 18.79      | 2.56                  | 30.73          |                | 19.68     | 2.27                  | 32.66          |                | 20.60 | 2.02                  | 34.57          |                | 21.50     | 1.77                  | 36.44          |                | 22.40     | 1.52                  |           |  |  |  |  |  |  |
| 63<br>(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<br>(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<br>(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                  |           |  |  |  |  |  |  |
| 80<br>(26.7)      | 67<br>(19.4) | 1200                                                                               | 26.71          | 22.96 | 2.80                  | 1200           | 28.71          | 24.01      | 2.56                  | 1200           | 30.60          | 25.01     | 2.26                  | 1200           | 32.52          | 26.03 | 2.01                  | 1200           | 34.42          | 27.05     | 1.77                  | 1200           | 36.30          | 28.05     | 1.52                  |           |  |  |  |  |  |  |
|                   | 63<br>(17.2) |                                                                                    | 25.56          | 25.56 | 2.80                  |                | 27.23          | 27.23      | 2.55                  |                | 28.80          | 28.80     | 2.26                  |                | 30.48          | 30.24 | 2.02                  |                | 32.21          | 31.42     | 1.78                  |                | 33.93          | 32.55     | 1.55                  |           |  |  |  |  |  |  |
|                   | 57<br>(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        |       |                       |                |                |            |                       |                |                |           |                       |                |                |       |                       |                |                |           |                       |                |                |           |                       |           |  |  |  |  |  |  |
|                   | 75<br>(23.9) | 72<br>(22.2)                                                                       | 1100           | 25.50 | 10.99                 | 2.21           | 1100           | 27.46      | 11.73                 | 2.07           | 875            | 19.62     | 8.56                  | 0.95           | 875            | 20.96 | 9.06                  | 0.84           | 875            | 22.29     | 9.57                  | 0.72           | 875            | 23.61     | 10.07                 | 0.57      |  |  |  |  |  |  |
| 67<br>(19.4)      |              | 23.22                                                                              |                | 15.65 | 2.21                  | 25.04          |                | 16.51      | 2.08                  | 17.88          |                | 12.38     | 0.98                  | 19.11          |                | 12.99 | 0.88                  | 20.32          |                | 13.60     | 0.76                  | 21.53          |                | 14.21     | 0.62                  |           |  |  |  |  |  |  |
| 63<br>(17.2)      |              | 21.57                                                                              |                | 19.30 | 2.21                  | 23.24          |                | 20.26      | 2.08                  | 16.68          |                | 15.37     | 1.00                  | 17.82          |                | 16.07 | 0.90                  | 18.95          |                | 16.77     | 0.79                  | 20.07          |                | 17.46     | 0.66                  |           |  |  |  |  |  |  |
| 57<br>(13.9)      |              | 20.89                                                                              |                | 20.89 | 2.20                  | 22.32          |                | 22.32      | 2.08                  | 16.33          |                | 16.33     | 1.00                  | 17.34          |                | 17.34 | 0.91                  | 18.34          |                | 18.34     | 0.81                  | 19.33          |                | 19.33     | 0.68                  |           |  |  |  |  |  |  |
| 72<br>(22.2)      |              | 25.31                                                                              |                | 15.59 | 2.21                  | 27.26          |                | 16.44      | 2.06                  | 19.42          |                | 12.31     | 0.95                  | 20.76          |                | 12.92 | 0.84                  | 22.09          |                | 13.52     | 0.71                  | 23.43          |                | 14.14     | 0.57                  |           |  |  |  |  |  |  |
| 80<br>(26.7)      | 67<br>(19.4) | 1100                                                                               | 23.13          | 20.20 | 2.21                  | 1100           | 24.93          | 21.18      | 2.07                  | 875            | 17.82          | 16.09     | 0.98                  | 875            | 19.04          | 16.80 | 0.88                  | 875            | 20.25          | 17.51     | 0.76                  | 875            | 21.44          | 18.21     | 0.62                  |           |  |  |  |  |  |  |
|                   | 63<br>(17.2) |                                                                                    | 22.25          | 22.25 | 2.21                  |                | 23.77          | 23.77      | 2.08                  |                | 17.35          | 17.35     | 0.98                  |                | 18.41          | 18.41 | 0.89                  |                | 19.46          | 19.46     | 0.78                  |                | 20.50          | 20.50     | 0.65                  |           |  |  |  |  |  |  |
|                   | 57<br>(13.9) |                                                                                    | 22.21          | 22.21 | 2.21                  |                | 23.73          | 23.73      | 2.08                  |                | 17.32          | 17.32     | 0.98                  |                | 18.39          | 18.39 | 0.89                  |                | 19.43          | 19.43     | 0.78                  |                | 20.47          | 20.47     | 0.65                  |           |  |  |  |  |  |  |
|                   |              |                                                                                    | STAGE 1        |       |                       |                |                |            |                       |                |                |           |                       |                |                |       |                       |                |                |           |                       |                |                |           |                       |           |  |  |  |  |  |  |
|                   | 72<br>(22.2) |                                                                                    | 25.50          | 10.99 | 2.21                  |                | 27.46          | 11.73      | 2.07                  |                | 19.62          | 8.56      | 0.95                  |                | 20.96          | 9.06  | 0.84                  |                | 22.29          | 9.57      | 0.72                  |                | 23.61          | 10.07     | 0.57                  |           |  |  |  |  |  |  |

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

## 22

| EDB<br>°F (°C) | EVAR. AIR              | 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) |       |       |      |  |
|                | EWB<br>°F (°C)         | ID<br>SCFM                                     | Capacity MBtuh<br>Total | MBtuh<br>Sensit | Total Sys.<br>KW | ID<br>SCFM | Capacity MBtuh<br>Total | MBtuh<br>Sensit | Total Sys.<br>KW | ID<br>SCFM | Capacity MBtuh<br>Total | MBtuh<br>Sensit | Total Sys.<br>KW | ID<br>SCFM | Capacity MBtuh<br>Total | MBtuh<br>Sensit | Total Sys.<br>KW |           |       |       |      |  |
| 75<br>(23.9)   | 72<br>(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<br>(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<br>(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<br>(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<br>(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<br>(26.7)   | 67<br>(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<br>(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<br>(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 |  |
|                | STAGE 3                |                                                |                         |                 |                  |            |                         |                 |                  |            |                         |                 |                  |            |                         |                 |                  |           |       |       |      |  |
|                |                        |                                                |                         |                 |                  |            |                         |                 |                  |            |                         |                 |                  |            |                         |                 |                  |           |       |       |      |  |
| 75<br>(23.9)   | 72<br>(22.2)           | 744                                            | 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<br>(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<br>(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<br>(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<br>(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<br>(26.7)   | 67<br>(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<br>(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<br>(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 |  |
|                | STAGE 1 — FCMA460 ONLY |                                                |                         |                 |                  |            |                         |                 |                  |            |                         |                 |                  |            |                         |                 |                  |           |       |       |      |  |
|                |                        |                                                |                         |                 |                  |            |                         |                 |                  |            |                         |                 |                  |            |                         |                 |                  |           |       |       |      |  |
| 75<br>(23.9)   | 72<br>(22.2)           | 662                                            | 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<br>(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<br>(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<br>(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<br>(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<br>(26.7)   | 67<br>(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<br>(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<br>(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<br>(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<br>(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<br>(23.9)   | 72<br>(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<br>(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<br>(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<br>(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<br>(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<br>(26.7)   | 67<br>(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<br>(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<br>(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<br>(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<br>(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 |  |
| 80<br>(26.7)   | 72<br>(22.2)           | 662                                            | 25.60                   | 10.40           | 1.98             | 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 |  |
|                | 67<br>(19.4)           |                                                | 23.27                   | 13.31           | 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 |  |
|                | 63<br>(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<br>(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<br>(22.2)           |                                                | 25.60                   | 10.40           | 1.98             |            | 17.95                   | 7.29            | 0.93             |            | 19.30                   | 7.84            | 0.83             |            | 20.67                   | 8.39            | 0.71             |           | 22.04 | 8.96  | 0.56 |  |

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.

See additional notes on page 28

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** |
| EHD4X48AAL           | EHD4X48AAL                       | 0.97            | 1.06  | 0.97           | *9MX*0801716A** |
| EHD4X48AAL           | EHD4X48AAL                       | 0.97            | 1.01  | 0.96           | *9MX*0802120A** |
| EHD4X48AAL           | EHD4X48AAL                       | 0.97            | 1.01  | 0.99           | *9MX*1002120A** |
| EHD4X60AAL           | EHD4X60AAL                       | 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**  |
| EHD4X48AAL           | 0.97     | 1.06  | *9MA*0602120A** |
| EHD4X48AAL           | 0.98     | 1.03  | *9MA*0802120A** |
| EHD4X48AAL           | 0.98     | 1.03  | *9MA*1002122A** |
| EHD4X48AAL           | 0.98     | 1.03  | *9MA*1202422A** |
| EHD4X48AAL           | 0.98     | 1.03  | *8MV*0901716**  |
| EHD4X48AAL           | 0.98     | 1.03  | *8MV*1102120**  |
| EHD4X48AAL           | 0.98     | 0.98  | *8MV*1352422**  |
| EHD4X60AAL           | 0.99     | 1.04  | *9MA*0602120A** |
| EHD4X60AAL           | 0.99     | 0.99  | *9MA*0802120A** |
| EHD4X60AAL           | 0.99     | 0.99  | *9MA*1002122A** |
| EHD4X60AAL           | 0.99     | 0.99  | *9MA*1202422A** |
| EHD4X60AAL           | 0.99     | 0.99  | *8MV*0901716**  |
| EHD4X60AAL           | 1.00     | 1.00  | *8MV*1102120**  |
| EHD4X60AAL           | 1.00     | 1.00  | *8MV*1352422**  |

CVA949  
DETAILED COOLING CAPACITIES# – EFFICIENCY MODE CONTINUED

| EDB<br>°F<br>(°C) | EVP.<br>AIR | CVA960 / FCMA460***L Efficiency Mode<br>Condenser Entering Air Temperature °F (°C) |       |           |       |              |                |                 |           |       |              |                |       |                |       |              |                |       |           |                 |              |                |       |           |       |                |                |       |           |       |              |                 |       |           |       |              |                |                |           |       |              |                |       |                 |       |              |      |  |  |                |       |      |      |  |  |                 |       |      |      |  |  |           |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |         |
|-------------------|-------------|------------------------------------------------------------------------------------|-------|-----------|-------|--------------|----------------|-----------------|-----------|-------|--------------|----------------|-------|----------------|-------|--------------|----------------|-------|-----------|-----------------|--------------|----------------|-------|-----------|-------|----------------|----------------|-------|-----------|-------|--------------|-----------------|-------|-----------|-------|--------------|----------------|----------------|-----------|-------|--------------|----------------|-------|-----------------|-------|--------------|------|--|--|----------------|-------|------|------|--|--|-----------------|-------|------|------|--|--|-----------|-------|------|------|--|--|-------|-------|------|------|--|--|-------|-------|------|------|--|--|-------|-------|------|------|--|--|-------|-------|------|------|--|--|-------|-------|------|------|--|--|-------|-------|------|------|--|--|-------|-------|------|------|--|--|-------|-------|------|------|--|--|-------|-------|------|------|--|--|-------|-------|------|------|--|--|-------|-------|------|------|--|--|-------|-------|------|------|--|--|-------|-------|------|------|--|--|-------|-------|------|------|--|--|-------|-------|------|------|--|--|-------|-------|------|------|--|--|-------|-------|------|------|--|--|-------|-------|------|------|--|--|-------|-------|------|------|--|--|-------|-------|------|------|--|--|-------|-------|------|------|--|--|-------|-------|------|------|--|--|-------|-------|------|------|--|--|-------|-------|------|------|--|--|-------|-------|------|------|--|--|-------|-------|------|------|--|--|-------|-------|------|------|--|--|-------|-------|------|------|--|--|-------|-------|------|------|--|--|-------|-------|------|------|--|--|-------|-------|------|------|--|--|-------|-------|------|------|--|--|-------|-------|------|------|--|--|-------|-------|------|------|--|--|-------|-------|------|------|--|--|-------|-------|------|------|--|--|-------|-------|------|------|--|--|-------|-------|------|------|--|--|-------|-------|------|------|--|--|-------|-------|------|------|--|--|-------|-------|------|------|--|--|-------|-------|------|------|--|--|-------|-------|------|------|--|--|-------|-------|------|------|--|--|-------|-------|------|------|--|--|-------|-------|------|------|--|--|-------|-------|------|------|--|--|-------|-------|------|------|--|--|-------|-------|------|------|--|--|-------|-------|------|------|--|--|-------|-------|------|------|--|--|-------|-------|------|------|--|--|-------|-------|------|------|--|--|-------|-------|------|------|--|--|-------|-------|------|------|--|--|-------|-------|------|------|--|--|-------|-------|------|------|--|--|-------|-------|------|------|--|--|-------|-------|------|------|--|--|-------|-------|------|------|--|--|-------|-------|------|------|--|--|-------|-------|------|------|--|--|-------|-------|------|------|--|--|-------|-------|------|------|--|--|-------|-------|------|------|--|--|-------|-------|------|------|--|--|-------|-------|------|------|--|--|-------|-------|------|------|--|--|-------|-------|------|------|--|--|-------|-------|------|------|--|--|-------|-------|------|------|--|--|-------|-------|------|------|--|--|-------|-------|------|------|--|--|-------|-------|------|------|--|--|-------|-------|------|------|--|--|-------|-------|------|------|--|--|-------|-------|------|------|--|--|-------|-------|------|------|--|--|-------|-------|------|------|--|--|-------|-------|------|------|--|--|-------|-------|------|------|--|--|-------|-------|------|------|--|--|-------|-------|------|------|--|--|-------|-------|------|------|--|--|-------|-------|------|------|--|--|-------|-------|------|------|--|--|-------|-------|------|------|--|--|-------|-------|------|------|--|--|-------|-------|------|------|--|--|-------|-------|------|------|--|--|-------|---------|
|                   |             | 115 (46.1)                                                                         |       |           |       |              |                |                 |           |       |              |                |       | 105 (40.5)     |       |              |                |       |           |                 |              |                |       |           |       | 95 (35)        |                |       |           |       |              |                 |       |           |       |              |                | 85 (23.4)      |           |       |              |                |       |                 |       |              |      |  |  | 75 (23.9)      |       |      |      |  |  |                 |       |      |      |  |  | 65 (18.3) |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |         |
|                   |             | Capacity MBtuh                                                                     |       |           |       |              |                | Total Sys. KW** |           |       |              |                |       | Capacity MBtuh |       |              |                |       |           | Total Sys. KW** |              |                |       |           |       | Capacity MBtuh |                |       |           |       |              | Total Sys. KW** |       |           |       |              |                | Capacity MBtuh |           |       |              |                |       | Total Sys. KW** |       |              |      |  |  | Capacity MBtuh |       |      |      |  |  | Total Sys. KW** |       |      |      |  |  |           |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |         |
|                   |             | ID<br>SCF<br>M                                                                     | Total | Sens<br>‡ | Total | Sys.<br>KW** | ID<br>SCF<br>M | Total           | Sens<br>‡ | Total | Sys.<br>KW** | ID<br>SCF<br>M | Total | Sens<br>‡      | Total | Sys.<br>KW** | ID<br>SCF<br>M | Total | Sens<br>‡ | Total           | Sys.<br>KW** | ID<br>SCF<br>M | Total | Sens<br>‡ | Total | Sys.<br>KW**   | ID<br>SCF<br>M | Total | Sens<br>‡ | Total | Sys.<br>KW** | ID<br>SCF<br>M  | Total | Sens<br>‡ | Total | Sys.<br>KW** | ID<br>SCF<br>M | Total          | Sens<br>‡ | Total | Sys.<br>KW** | ID<br>SCF<br>M | Total | Sens<br>‡       | Total | Sys.<br>KW** |      |  |  |                |       |      |      |  |  |                 |       |      |      |  |  |           |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |       |      |      |  |  |       |         |
| 75<br>(23.9)      | 72(22.2)    | 1200                                                                               |       |           | 43.98 | 18.09        | 5.07           | 47.11           | 19.28     | 4.34  | 1200         |                |       | 50.17          | 20.46 | 3.71         | 1200           |       |           | 53.15           | 21.62        | 3.16           | 1200  |           |       | 56.08          | 22.77          | 2.69  | 1200      |       |              | 58.82           | 23.91 | 2.29      | 1200  |              |                | 58.82          | 23.91     | 2.29  | 1200         |                |       | 58.82           | 23.91 | 2.29         | 1200 |  |  | 58.82          | 23.91 | 2.29 | 1200 |  |  | 58.82           | 23.91 | 2.29 | 1200 |  |  | 58.82     | 23.91 | 2.29 | 1200 |  |  | 58.82 | 23.91 | 2.29 | 1200 |  |  | 58.82 | 23.91 | 2.29 | 1200 |  |  | 58.82 | 23.91 | 2.29 | 1200 |  |  | 58.82 | 23.91 | 2.29 | 1200 |  |  | 58.82 | 23.91 | 2.29 | 1200 |  |  | 58.82 | 23.91 | 2.29 | 1200 |  |  | 58.82 | 23.91 | 2.29 | 1200 |  |  | 58.82 | 23.91 | 2.29 | 1200 |  |  | 58.82 | 23.91 | 2.29 | 1200 |  |  | 58.82 | 23.91 | 2.29 | 1200 |  |  | 58.82 | 23.91 | 2.29 | 1200 |  |  | 58.82 | 23.91 | 2.29 | 1200 |  |  | 58.82 | 23.91 | 2.29 | 1200 |  |  | 58.82 | 23.91 | 2.29 | 1200 |  |  | 58.82 | 23.91 | 2.29 | 1200 |  |  | 58.82 | 23.91 | 2.29 | 1200 |  |  | 58.82 | 23.91 | 2.29 | 1200 |  |  | 58.82 | 23.91 | 2.29 | 1200 |  |  | 58.82 | 23.91 | 2.29 | 1200 |  |  | 58.82 | 23.91 | 2.29 | 1200 |  |  | 58.82 | 23.91 | 2.29 | 1200 |  |  | 58.82 | 23.91 | 2.29 | 1200 |  |  | 58.82 | 23.91 | 2.29 | 1200 |  |  | 58.82 | 23.91 | 2.29 | 1200 |  |  | 58.82 | 23.91 | 2.29 | 1200 |  |  | 58.82 | 23.91 | 2.29 | 1200 |  |  | 58.82 | 23.91 | 2.29 | 1200 |  |  | 58.82 | 23.91 | 2.29 | 1200 |  |  | 58.82 | 23.91 | 2.29 | 1200 |  |  | 58.82 | 23.91 | 2.29 | 1200 |  |  | 58.82 | 23.91 | 2.29 | 1200 |  |  | 58.82 | 23.91 | 2.29 | 1200 |  |  | 58.82 | 23.91 | 2.29 | 1200 |  |  | 58.82 | 23.91 | 2.29 | 1200 |  |  | 58.82 | 23.91 | 2.29 | 1200 |  |  | 58.82 | 23.91 | 2.29 | 1200 |  |  | 58.82 | 23.91 | 2.29 | 1200 |  |  | 58.82 | 23.91 | 2.29 | 1200 |  |  | 58.82 | 23.91 | 2.29 | 1200 |  |  | 58.82 | 23.91 | 2.29 | 1200 |  |  | 58.82 | 23.91 | 2.29 | 1200 |  |  | 58.82 | 23.91 | 2.29 | 1200 |  |  | 58.82 | 23.91 | 2.29 | 1200 |  |  | 58.82 | 23.91 | 2.29 | 1200 |  |  | 58.82 | 23.91 | 2.29 | 1200 |  |  | 58.82 | 23.91 | 2.29 | 1200 |  |  | 58.82 | 23.91 | 2.29 | 1200 |  |  | 58.82 | 23.91 | 2.29 | 1200 |  |  | 58.82 | 23.91 | 2.29 | 1200 |  |  | 58.82 | 23.91 | 2.29 | 1200 |  |  | 58.82 | 23.91 | 2.29 | 1200 |  |  | 58.82 | 23.91 | 2.29 | 1200 |  |  | 58.82 | 23.91 | 2.29 | 1200 |  |  | 58.82 | 23.91 | 2.29 | 1200 |  |  | 58.82 | 23.91 | 2.29 | 1200 |  |  | 58.82 | 23.91 | 2.29 | 1200 |  |  | 58.82 | 23.91 | 2.29 | 1200 |  |  | 58.82 | 23.91 | 2.29 | 1200 |  |  | 58.82 | 23.91 | 2.29 | 1200 |  |  | 58.82 | 23.91 | 2.29 | 1200 |  |  | 58.82 | 23.91 | 2.29 | 1200 |  |  | 58.82 | 23.91 | 2.29 | 1200 |  |  | 58.82 | 23.91 | 2.29 | 1200 |  |  | 58.82 | 23.91 | 2.29 | 1200 |  |  | 58.82 | 23.91 | 2.29 | 1200 |  |  | 58.82 | 23.91 | 2.29 | 1200 |  |  | 58.82 | 23.91 | 2.29 | 1200 |  |  | 58.82 | 23.91 | 2.29 | 1200 |  |  | 58.82 | 23.91 | 2.29 | 1200 |  |  | 58.82 | 23.91 | 2.29 | 1200 |  |  | 58.82 | 23.91 | 2.29 | 1200 |  |  | 58.82 | 23.91 | 2.29 | 1200 |  |  | 58.82 | 23.91 | 2.29 | 1200 |  |  | 58.82 | 23.91 | 2.29 | 1200 |  |  | 58.82 | 23.91 | 2.29 | 1200 |  |  | 58.82 | 23.91 | 2.29 | 1200 |  |  | 58.82 | 23.91 | 2.29 | 1200 |  |  | 58.82 | 23.91 | 2.29 | 1200 |  |  | 58.82 | 23.91 | 2.29 | 1200 |  |  | 58.82 | 23.91 | 2.29 | 1200 |  |  | 58.82 | 23.91 | 2.29 | 1200 |  |  | 58.82 | 23.91 | 2.29 | 1200 |  |  | 58.82 | 23.91 | 2.29 | 1200 |  |  | 58.82 | 23.91 | 2.29 | 1200 |  |  | 58.82 | 23.91 | 2.29 | 1200 |  |  | 58.82 | 23.91 | 2.29 | 1200 |  |  | 58.82 | 23.91 | 2.29 | 1200 |  |  | 58.82 | 23.91 | 2.29 | 1200 |  |  | 58.82 | 23.91 | 2.29 | 1200 |  |  | 58.82 | 23.91 | 2.29 | 1200 |  |  | 58.82 | 23.91</ |



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

CVA949

| COOLING INDOOR MODEL | CAPACITY | POWER | 2-STAGE (Hi-Stage 5, Lo-Stage 2) |                |       |               | FURNACE MODEL   |
|----------------------|----------|-------|----------------------------------|----------------|-------|---------------|-----------------|
|                      |          |       | COOLING INDOOR MODEL             | HIGH SPEED CAP | POWER | LOW SPEED CAP |                 |
| FCM4X60**L           | 1.00     | 1.00  | FVM4X48**L                       | 1.01           | 1.01  | 1.01          |                 |
| FCM4X48**L           | 0.98     | 0.98  | FVM4X60**L                       | 1.01           | 1.01  | 0.97          |                 |
| EA*4X48L21A*         | 0.95     | 1.01  | EHD4X48AAL                       | 1.00           | 1.02  | 1.00          | *9MX*1002120A** |
| EA*4X48L21A*         | 0.99     | 1.06  |                                  |                |       |               |                 |
| EA*4X48L21A*         | 0.99     | 1.03  |                                  |                |       |               |                 |
| EA*4X48L24A*         | 0.96     | 0.98  |                                  |                |       |               |                 |
| EA*4X48L24A*         | 0.96     | 0.98  |                                  |                |       |               |                 |
| EA*4X48L24A*         | 0.96     | 0.98  |                                  |                |       |               |                 |
| EA*4X48L24A*         | 0.98     | 1.00  |                                  |                |       |               |                 |
| EA*4X48L24A*         | 0.99     | 1.06  |                                  |                |       |               |                 |
| EA*4X60L21A*         | 0.97     | 1.03  |                                  |                |       |               |                 |
| EA*4X60L21A*         | 0.99     | 1.01  |                                  |                |       |               |                 |
| EA*4X60L21A*         | 0.99     | 1.06  |                                  |                |       |               |                 |
| EA*4X60L21A*         | 1.01     | 1.08  |                                  |                |       |               |                 |
| EA*4X60L21A*         | 0.99     | 1.01  |                                  |                |       |               |                 |
| EA*4X60L24A*         | 0.98     | 0.98  |                                  |                |       |               |                 |
| EA*4X60L24A*         | 0.98     | 0.98  |                                  |                |       |               |                 |
| EA*4X60L24A*         | 1.00     | 1.02  |                                  |                |       |               |                 |
| EA*4X60L24A*         | 0.99     | 1.01  |                                  |                |       |               |                 |
| EA*4X61L24A*         | 1.03     | 1.03  |                                  |                |       |               |                 |
| EA*4X61L24A*         | 1.01     | 1.01  |                                  |                |       |               |                 |
| ENH4X48L21**         | 1.00     | 1.07  |                                  |                |       |               |                 |
| ENH4X48L21**         | 0.99     | 1.06  |                                  |                |       |               |                 |
| ENH4X60L24**         | 1.00     | 1.02  |                                  |                |       |               |                 |
| ENH4X60L24**         | 0.99     | 1.03  |                                  |                |       |               |                 |
| ENH4X61L24**         | 1.00     | 1.02  |                                  |                |       |               |                 |
| ENH4X61L24**         | 1.01     | 1.08  |                                  |                |       |               |                 |
| EN(A,D,W)4X48L21**   | 0.96     | 1.02  |                                  |                |       |               |                 |
| EN(A,D,W)4X48L21**   | 0.99     | 1.06  |                                  |                |       |               |                 |
| EN(A,D,W)4X48L21**   | 0.99     | 1.03  |                                  |                |       |               |                 |
| EN(A,D,W)4X48L21**   | 0.99     | 1.03  |                                  |                |       |               |                 |
| EN(A,D,W)4X48L24**   | 0.99     | 1.06  |                                  |                |       |               |                 |
| EN(A,D,W)4X60L24**   | 0.97     | 0.97  |                                  |                |       |               |                 |
| EN(A,D,W)4X60L24**   | 0.98     | 0.98  |                                  |                |       |               |                 |
| EN(A,D,W)4X60L24**   | 0.98     | 0.98  |                                  |                |       |               |                 |
| EN(A,D,W)4X60L24**   | 1.00     | 1.02  |                                  |                |       |               |                 |
| EN(A,D,W)4X60L24**   | 0.99     | 1.03  |                                  |                |       |               |                 |
| EN(A,D,W)4X60L24**   | 0.98     | 0.98  |                                  |                |       |               |                 |
| EN(A,D,W)4X60L24**   | 0.99     | 0.99  |                                  |                |       |               |                 |
| EN(A,D,W)4X60L24**   | 0.98     | 0.98  |                                  |                |       |               |                 |
| EN(A,D,W)4X60L24**   | 1.01     | 1.04  |                                  |                |       |               |                 |
| EN(A,D,W)4X60L24**   | 1.00     | 1.02  |                                  |                |       |               |                 |
| ENH4X48AAL           | 0.99     | 1.03  |                                  |                |       |               |                 |
| ENH4X48AAL           | 0.99     | 1.01  |                                  |                |       |               |                 |
| ENH4X48AAL           | 0.99     | 1.06  |                                  |                |       |               |                 |
| ENH4X48AAL           | 0.99     | 1.03  |                                  |                |       |               |                 |
| ENH4X60AAL           | 1.00     | 1.02  |                                  |                |       |               |                 |
| ENH4X60AAL           | 1.00     | 1.07  |                                  |                |       |               |                 |
| ENH4X60AAL           | 1.00     | 1.07  |                                  |                |       |               |                 |
| ENH4X60AAL           | 1.00     | 1.07  |                                  |                |       |               |                 |
| ENH4X60AAL           | 0.99     | 1.01  |                                  |                |       |               |                 |
| ENH4X60AAL           | 1.00     | 1.02  |                                  |                |       |               |                 |

| COOLING INDOOR MODEL | 2-STAGE (Hi-Stage 5, Lo-Stage 2) |       |               |       | FURNACE MODEL   |
|----------------------|----------------------------------|-------|---------------|-------|-----------------|
|                      | HIGH SPEED CAP                   | POWER | LOW SPEED CAP | POWER |                 |
| FVM4X48**L           | 1.01                             | 1.01  | 1.01          | 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<br>°F<br>(°C) | EVAP.<br>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<br>°F (°C)    | ID<br>SCF<br>M | Capacity MBtuh<br>Total<br>Sens<br>‡       | Total<br>Sys.<br>KW** | ID<br>SCF<br>M | Capacity MBtuh<br>Total<br>Sens<br>‡ | Total<br>Sys.<br>KW** | ID<br>SCF<br>M | Capacity MBtuh<br>Total<br>Sens<br>‡ | Total<br>Sys.<br>KW** | ID<br>SCF<br>M | Capacity MBtuh<br>Total<br>Sens<br>‡ | Total<br>Sys.<br>KW** | ID<br>SCF<br>M | Capacity MBtuh<br>Total<br>Sens<br>‡ | Total<br>Sys.<br>KW** | ID<br>SCF<br>M | Capacity MBtuh<br>Total<br>Sens<br>‡ | Total<br>Sys.<br>KW** | ID<br>SCF<br>M | Capacity MBtuh<br>Total<br>Sens<br>‡ | Total<br>Sys.<br>KW** | ID<br>SCF<br>M | Capacity MBtuh<br>Total<br>Sens<br>‡ | Total<br>Sys.<br>KW** |      |  |           |  |  |
| 75<br>(23.9)      | 72<br>(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 |  |           |  |  |
|                   |                |                                            | 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 |  |           |  |  |
|                   |                |                                            | 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 |  |           |  |  |
|                   |                |                                            | 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 |  |           |  |  |
|                   |                |                                            | 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<br>(26.7)      | 72<br>(22.2)   | 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 |  |           |  |  |
|                   |                |                                            | 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 |  |           |  |  |
|                   |                |                                            | 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<br>(23.9)      | 72<br>(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 |  |           |  |  |
|                   |                |                                            | 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 |  |           |  |  |
|                   |                |                                            | 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 |  |           |  |  |
|                   |                |                                            | 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 |  |           |  |  |
|                   |                |                                            | 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<br>(26.7)      | 72<br>(22.2)   | 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 |  |           |  |  |
|                   |                |                                            | 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 |  |           |  |  |
|                   |                |                                            | 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<br>(23.9)      | 72<br>(22.2)   | 1200                                       | 26.64                 | 11.34          | 1.89                                 | 1200                  | 28.56          | 12.02                                | 1.84                  | 1200           | 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 |  |           |  |  |
|                   |                |                                            | 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 |  |           |  |  |
|                   |                |                                            | 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 |  |           |  |  |
|                   |                |                                            | 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 |  |           |  |  |
|                   |                |                                            | 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<br>(26.7)      | 72<br>(22.2)   | 1200                                       | 23.79                 | 20.16          | 1.89                                 | 1200                  | 25.52          | 20.85                                | 1.84                  | 1200           | 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 |  |           |  |  |
|                   |                |                                            | 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 |  |           |  |  |
|                   |                |                                            | 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<br>°F (°C)                                                                                                                                       | EVA/P AIR<br><br>EWB<br>°F (°C) | CVA960 / FCMA960***L Comfort + Dehumidify Mode<br>Condenser Entering Air Temperature °F (°C) |                            |       |                  |            |                            |       |                  |            |                            |       |                  |            |                            |       |                  |            |                            |       |                  |
|------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|----------------------------------------------------------------------------------------------|----------------------------|-------|------------------|------------|----------------------------|-------|------------------|------------|----------------------------|-------|------------------|------------|----------------------------|-------|------------------|------------|----------------------------|-------|------------------|
|                                                                                                                                                      |                                 | 105 (40.5)                                                                                   |                            |       |                  | 95 (35)    |                            |       |                  | 85 (29.4)  |                            |       |                  | 75 (23.9)  |                            |       |                  | 65 (18.3)  |                            |       |                  |
|                                                                                                                                                      |                                 | ID<br>SCFM                                                                                   | Capacity<br>MBtuh<br>Total | Sens† | Total Sys.<br>KW | ID<br>SCFM | Capacity<br>MBtuh<br>Total | Sens† | Total Sys.<br>KW | ID<br>SCFM | Capacity<br>MBtuh<br>Total | Sens† | Total Sys.<br>KW | ID<br>SCFM | Capacity<br>MBtuh<br>Total | Sens† | Total Sys.<br>KW | ID<br>SCFM | Capacity<br>MBtuh<br>Total | Sens† | Total Sys.<br>KW |
|                                                                                                                                                      |                                 | STAGE 5                                                                                      |                            |       |                  |            |                            |       |                  |            |                            |       |                  |            |                            |       |                  |            |                            |       |                  |
| 75<br>(23.9)                                                                                                                                         | 72<br>(22.2)                    | 1367                                                                                         | 57.74                      | 23.45 | 6.51             | 61.60      | 25.02                      | 5.73  | 1440             | 65.43      | 26.57                      | 5.06  | 1566             | 69.11      | 28.06                      | 4.43  | 1488             | 71.73      | 29.06                      | 3.80  |                  |
|                                                                                                                                                      | 67<br>(19.4)                    |                                                                                              | 52.75                      | 29.96 | 6.32             | 56.26      | 31.94                      | 5.56  |                  | 59.74      | 33.92                      | 4.89  |                  | 63.08      | 35.74                      | 4.28  |                  | 65.39      | 36.48                      | 3.66  |                  |
|                                                                                                                                                      | 63<br>(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<br>(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  |                  |
| 80<br>(26.7)                                                                                                                                         | 72<br>(22.2)                    | 1367                                                                                         | 57.61                      | 29.82 | 6.52             | 61.47      | 31.80                      | 5.74  | 1440             | 65.28      | 33.78                      | 5.06  | 1566             | 68.97      | 35.61                      | 4.43  | 1488             | 71.59      | 36.37                      | 3.80  |                  |
|                                                                                                                                                      | 67<br>(19.4)                    |                                                                                              | 52.65                      | 36.25 | 6.32             | 56.15      | 38.64                      | 5.56  |                  | 59.62      | 41.04                      | 4.89  |                  | 62.96      | 43.19                      | 4.28  |                  | 65.29      | 43.67                      | 3.66  |                  |
|                                                                                                                                                      | 63<br>(17.2)                    |                                                                                              | 48.99                      | 41.31 | 6.19             | 52.23      | 44.02                      | 5.43  |                  | 55.45      | 46.75                      | 4.77  |                  | 58.54      | 49.15                      | 4.17  |                  | 60.67      | 49.42                      | 3.56  |                  |
|                                                                                                                                                      | 57<br>(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<br>(23.9)                                                                                                                                         | 72<br>(22.2)                    | 959                                                                                          | 36.98                      | 15.01 | 3.25             | 39.25      | 15.94                      | 2.79  | 1013             | 41.77      | 16.95                      | 2.44  | 1120             | 44.28      | 17.97                      | 2.13  | 1210             | 47.05      | 19.11                      | 1.87  |                  |
|                                                                                                                                                      | 67<br>(19.4)                    |                                                                                              | 33.40                      | 19.03 | 3.22             | 35.55      | 20.23                      | 2.75  |                  | 37.83      | 21.50                      | 2.39  |                  | 40.10      | 22.76                      | 2.09  |                  | 42.62      | 24.30                      | 1.84  |                  |
|                                                                                                                                                      | 63<br>(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<br>(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  |                  |
| 80<br>(26.7)                                                                                                                                         | 72<br>(22.2)                    | 959                                                                                          | 36.89                      | 19.10 | 3.25             | 39.15      | 20.27                      | 2.79  | 1013             | 41.66      | 21.53                      | 2.44  | 1120             | 44.17      | 22.80                      | 2.13  | 1210             | 46.93      | 24.34                      | 1.87  |                  |
|                                                                                                                                                      | 67<br>(19.4)                    |                                                                                              | 33.32                      | 23.06 | 3.22             | 35.47      | 24.51                      | 2.75  |                  | 37.74      | 26.01                      | 2.39  |                  | 40.02      | 27.53                      | 2.09  |                  | 42.53      | 29.47                      | 1.84  |                  |
|                                                                                                                                                      | 63<br>(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<br>(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<br>(23.9)                                                                                                                                         | 72<br>(22.2)                    | 748                                                                                          | 27.11                      | 11.00 | 2.21             | 19.91      | 8.07                       | 1.22  | 600              | 20.99      | 8.50                       | 1.01  | 647              | 22.49      | 9.11                       | 0.80  | 700              | 24.02      | 9.73                       | 0.59  |                  |
|                                                                                                                                                      | 67<br>(19.4)                    |                                                                                              | 24.28                      | 13.80 | 2.21             | 17.69      | 10.04                      | 1.21  |                  | 18.67      | 10.45                      | 1.01  |                  | 20.04      | 11.19                      | 0.81  |                  | 21.43      | 11.97                      | 0.61  |                  |
|                                                                                                                                                      | 63<br>(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<br>(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  |                  |
| 80<br>(26.7)                                                                                                                                         | 72<br>(22.2)                    | 748                                                                                          | 27.04                      | 13.93 | 2.21             | 19.86      | 10.20                      | 1.22  | 600              | 20.94      | 10.61                      | 1.01  | 647              | 22.43      | 11.35                      | 0.80  | 700              | 23.96      | 12.13                      | 0.59  |                  |
|                                                                                                                                                      | 67<br>(19.4)                    |                                                                                              | 24.22                      | 16.71 | 2.21             | 17.65      | 12.16                      | 1.21  |                  | 18.63      | 12.54                      | 1.01  |                  | 19.99      | 13.42                      | 0.81  |                  | 21.39      | 14.35                      | 0.61  |                  |
|                                                                                                                                                      | 63<br>(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<br>(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.                      |                                 |                                                                                              |                            |       |                  |            |                            |       |                  |            |                            |       |                  |            |                            |       |                  |            |                            |       |                  |

See additional notes on page 28

# CVA960

2-STAGE (Hi-Stage 5, Lo-Stage 2)

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**NOTE:** When the required data falls between the published data, interpolation may be performed. Extrapolation is not an acceptable practice.

**EWB** — Entering Wet Bulb

| COOLING INDOOR MODEL | CAPACITY | POWER | FURNACE MODEL    |
|----------------------|----------|-------|------------------|
| FOM4X60***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  | *9MV**1102120**  |
| EA4X60L24A*          | 0.98     | 1.03  | *9MA*0602120A**  |
| EA4X60L24A*          | 0.99     | 1.04  | *9MA*0802120A**  |
| EA4X60L24A*          | 0.99     | 0.99  | *9MA**1002122A** |
| EA4X60L24A*          | 0.99     | 1.04  | *9MA*1202422A**  |
| EA4X60L24A*          | 0.99     | 0.99  | *9MV**1102120**  |
| EA4X60L24A*          | 0.99     | 0.99  | *9MV**1352422**  |
| EA4X60L24**          | 0.98     | 1.09  | *9MA*0602120A**  |
| EA4X60L24**          | 0.99     | 1.04  | *9MA*0802120A**  |
| EA4X60L24**          | 0.99     | 1.04  | *9MA**1002122A** |
| EA4X60L24**          | 0.99     | 1.04  | *9MA*1202422A**  |
| EA4X60L24**          | 0.99     | 1.04  | *9MV**1102120**  |
| EA4X60L24**          | 0.99     | 0.99  | *9MV**1352422**  |
| EA4X61124**          | 0.98     | 1.09  | *9MA*0602120A**  |
| EA4X61124**          | 0.99     | 1.04  | *9MA*0802120A**  |
| EA4X61124**          | 0.99     | 1.04  | *9MA**1002122A** |
| EA4X61124**          | 0.99     | 1.04  | *9MA*1202422A**  |
| EA4X61124**          | 0.99     | 1.04  | *9MV**1102120**  |
| EA4X61124**          | 1.00     | 1.00  | *9MV**1352422**  |
| EN(A,D,W)4X60L24**   | 0.97     | 1.02  | *9MA*0602120A**  |
| EN(A,D,W)4X60L24**   | 0.98     | 1.03  | *9MA*0802120A**  |
| EN(A,D,W)4X60L24**   | 0.98     | 0.98  | *9MA**1002122A** |
| EN(A,D,W)4X60L24**   | 0.98     | 1.03  | *9MA*1202422A**  |
| EN(A,D,W)4X60L24**   | 0.98     | 0.98  | *9MV**1102120**  |
| EN(A,D,W)4X60L24**   | 0.98     | 0.98  | *9MV**1352422**  |
| EN(A,D)4X61124**     | 0.99     | 1.04  | *9MA*0602120A**  |
| EN(A,D)4X61124**     | 1.00     | 1.00  | *9MA*0802120A**  |
| EN(A,D)4X61124**     | 0.99     | 1.04  | *9MA**1002122A** |
| EN(A,D)4X61124**     | 0.99     | 0.99  | *9MA*1202422A**  |
| EN(A,D)4X61124**     | 1.00     | 1.00  | *9MV**1102120**  |
| EN(A,D)4X61124**     | 1.00     | 1.00  | *9MV**1352422**  |
| EHD4X60AAL           | 0.99     | 1.04  | *9MA*0602120A**  |
| EHD4X60AAL           | 0.99     | 1.04  | *9MA*0802120A**  |
| EHD4X60AAL           | 1.00     | 1.00  | *9MA**1002122A** |
| EHD4X60AAL           | 1.00     | 1.00  | *9MA*1202422A**  |
| EHD4X60AAL           | 1.00     | 1.00  | *9MV**1102120**  |
| EHD4X60AAL           | 1.00     | 1.00  | *9MV**1352422**  |

## 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.
- Observer® 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

|             |                                                       |     |
|-------------|-------------------------------------------------------|-----|
| TSTAT0201CW | Observer® Self Configuring Communicating Wall Control | ALL |
|-------------|-------------------------------------------------------|-----|

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

