

**Job:** \_\_\_\_\_  
**Location:** \_\_\_\_\_  
**Schedule No.:** \_\_\_\_\_  
**System Designation:** \_\_\_\_\_

**Engineer:** \_\_\_\_\_  
**Architect:** \_\_\_\_\_  
**Date:** \_\_\_\_\_  
**For:**  **Reference**  **Approval**  **Review**  **Construction**

## FEATURES

- All DC Inverter Technology
- 3 Speed
- Auto restart
- Electronic Expansion Valve
- Wide Application Range
- Single Fan Motor
- One Blowers
- Flexible Control and Easy Maintenance
- Heating and Cooling
- Convenient Installation

## PERFORMANCE

Cooling Performance		Mominal Net Cooling Capacity - Btuh	48,000
		Total Unit Power Input (W)	590
		Rated current (A)	3.95
Heating Performance		Nominal Net Heating Capacity - Btuh	54,000
		Total Unit Power Input (W)	590
		Rated current (A)	3.95
Refrigerant Type		R-410A	

## GENERAL DATA

Indoor Fan Motor	HP	3/4
	RPM	1200
Indoor Coil	Number of rows	4
	Number of circuits	12
	Expansion device	Electronic Expansion Valve
Indoor Coil Connections	Liquid pipe o.d. - in. (sweat)	3/5"
	Vapor pipe o.d. - in. (sweat)	5/8"
	Drain connection o.d. - in.	3/4"
Indoor Blower	Airflow (high / medium / low) - cfm	1600 / 1360 / 1120
	Sound data (high/medium/low) dBA	57 / 54 / 52
Filter Size	(not furnished) - in.	20 x 22 x 1
Weight Data	Unit weight (net / shipping) - lbs.	163/190

## ELECTRICAL DATA

Line voltage data - 60 hz - 1ph	208-230/1/60
Maximum overcurrent protection (2) (amps)	15
Minimum circuit ampacity (3)	5.3
Indoor Blower Motor - Full load amps	4.2



### Notes:

1. Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
2. Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 7.5m with zero level difference.
3. Fan motor speed and air flow rate are from the highest speed to the lowest speed, total 3 rates for each model.
4. Stable operation external static pressure range. (Note: setting external static pressure outside the unit's optimal static pressure range may lead to higher noise levels and lower airflow rate. For the optimal external static pressure range refer to the unit's installation manual.)
5. Sound pressure level is from highest level to lowest level, total 7 levels for each model. Sound pressure level is measured 1.4m below the unit in a semi-anechoic chamber.

## OPTIONAL ACCESSORIES

Wired Thermostat CTVS-C-WR86E/KD (not included)

Note – Due to Comfort Time ongoing commitment to quality, specifications, ratings and dimensions are subject to change without notice and without incurring liability. Improper installation, adjustment, alteration, service, Maintenance and operation may cause property damage or personal injury.

Installation, service and operation must be performed by a qualified installer, servicing and operation agency.

## FEATURES

**Auto Restart** - Automatically restores the previous function setting if power is interrupted.

**Expansion Valve** - Assures optimal performance throughout the application range.

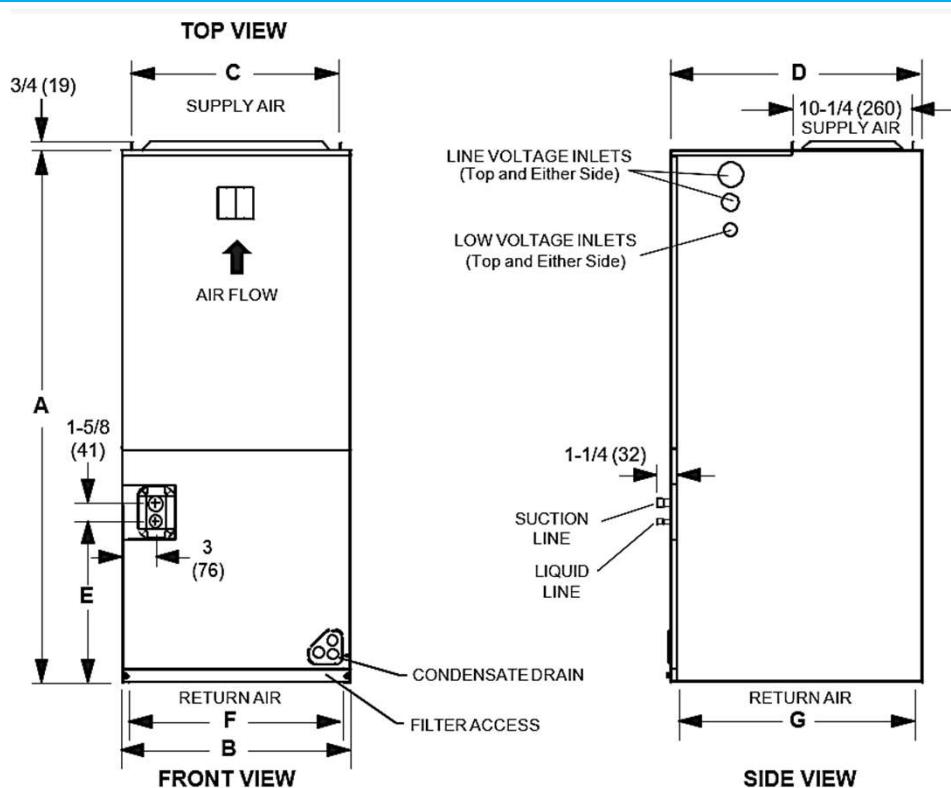
**Sweat Connections** - Vapor and liquid lines have sweat connections that extended outside of the cabinet for ease of connection. See dimension drawing for locations.

**Blower** - Direct drive, variable-speed ECM motor. maintains specified air volumes up to a maximum of 0.8 in. w.g. total external static.

**Cabinet** - Painted, galvanized steel cabinet, fully insulated. Upflow and horizontal-right hand air discharge installations only. Flanges on cabinet allow easy supply air duct connection.

**Filter** - access door for easy filter replacement. Electrical inlets provided in sides and top of cabinet. See dimension drawing for locations.

## DIMENSIONAL DRAWINGS - INCHES (MM)



Dimension	CTVS-AHU-X-048-E-AE-DC-1	
	in.	mm
<b>A</b>	53-3/4	1365
<b>B</b>	22	560
<b>C</b>	19-1/2	495
<b>D</b>	24	610
<b>E</b>	19-1/2	495
<b>F</b>	20-3/8	518
<b>G</b>	22-3/4	578

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