

**Job:** \_\_\_\_\_ **Engineer:** \_\_\_\_\_  
**Location:** \_\_\_\_\_ **Architect:** \_\_\_\_\_  
**Schedule No.:** \_\_\_\_\_ **Date:** \_\_\_\_\_  
**System Designation:** \_\_\_\_\_ **For:**  **Reference**  **Approval**  **Review**  **Construction**

## FEATURES

- All DC Inverter Technology
- Floating Evaporating Temperature
- Multi Silent Mode
- Back Up Operation
- Selectable High ESP (Optional)
- Wide Application Range
- Capacity Output Limitation
- Multi Priority Mode
- Auto Dust Cleaning (Optional)
- Anti-corrosion Protection (Optional)
- Auto Addressing
- Intelligent Duty Cycle Operation
- Real-time Refrigerant Amount Monitoring
- Auto Refrigerant Charging (Optional)

## SPECIFICATIONS

### PERFORMANCE

Cooling Capacity (1)	HP	12
	Btu/h	114,300
	kW	33.5
EER	Btu/W*h	4.3
Power Input Cooling	kW	7.79
	Btu/h	128,000
Heating capacity (2)	kW	37.5
	Btu/h	128,000
COP	Btu/W*h	4.9
Power Input Heating	kW	7.65

### ELECTRICAL DATA

Power Supply	V/Ph/Hz	220/3/60
Minimun Circuit Ampacity	A	49.5
Total Over-current Amps.	A	41.5
Max Fuse Amps	A	55
Compressor RLA	A	22
No. Compressors		1
Outdoor Fan Power Input	W	465
Outdoor Fan FLA	A	4.5

### GENERAL DATA

Connection Ratio	%	50-130%
Max Indoor Units		20
Sound Pressure Level (4)	dB(A)	60
Outdoor Fan Air Volume	m <sup>3</sup> /h (CFM)	12000 (7060)
Refrigerant Type		R410A
Factory refrigerant charge	Kg (Lbs)	11(24)

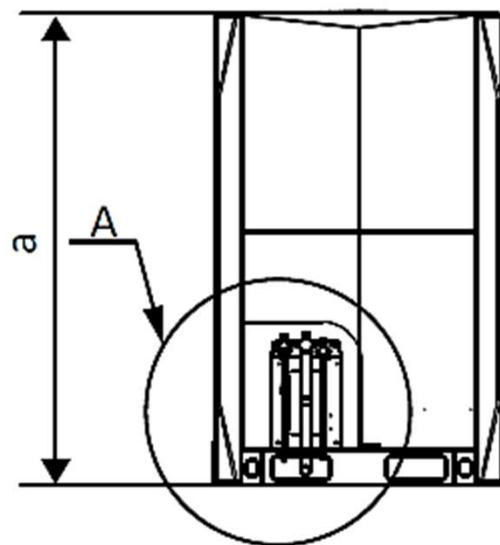
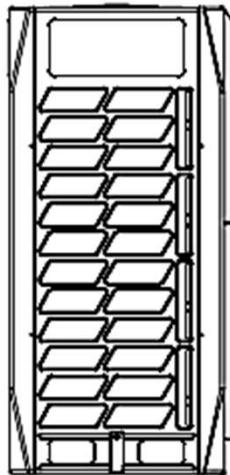
### DIMENSIONS

Unit Dimensions mm (inch) WxHxD	Net	990×1635×790 (39×64-3/8×31-1/8)
	Packed	1090×1805×860 (42-7/8×71-1/16×33-7/8)
Liquid Pipe Connection (3)	mm (inch)	Φ15.9 (Φ5/8")
Gas Pipe Connection (3)	mm (inch)	Φ28.6 (Φ1-1/8")
Oil balance Pipe	mm (inch)	Φ6.35 (Φ1/4")
Net Weight	Kg (Lbs)	237 (523)
Shipping Weight	Kg (Lbs)	252 (556)

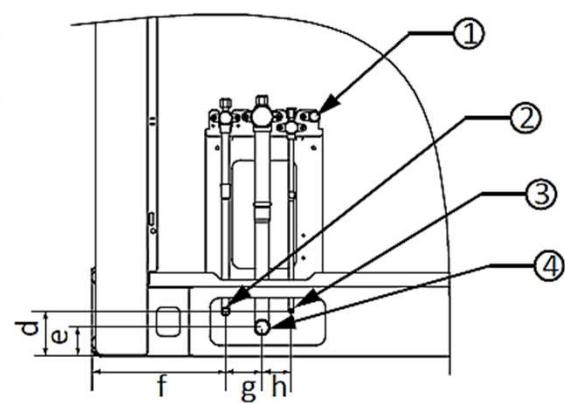
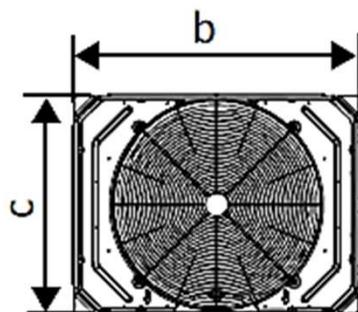


### Notes:

1. Indoor air temperature 27°C (80.6°F) DB, 19°C (66.2°F) WB; outdoor air temperature 35°C (95.0°F) DB; equivalent refrigerant piping length 7.5m (24.6ft.) with zero level difference.
2. Indoor air temperature 20°C (68.0°F) DB; outdoor air temperature 7°C (44.6°F) DB, 6°C (42.8°F) WB; equivalent refrigerant piping length 7.5m (24.6ft.) with zero level difference.
3. Diameters given are those of the unit's stop valve.
4. Sound pressure level is measured at a position 1m (3.28ft.) in front of the unit and 1.3m (4.26ft.) above the floor in a semi-anechoic chamber.

**DIMENSIONAL DRAWINGS - INCHES (MM)**

**Dimensions (unit: mm (in.))**

a	1635 (64-3/8")
b	990 (39")
c	790 (31-1/8")
d	77 (3-1/32")
e	50 (1-15/16")
f	229 (9")
g	63 (2-1/2")
h	50 (1-15/16")


**Detail A**
**Legend**

No.	Parts Name	Remarks
1	Check Ports	The check port is used to measure system pressure, charge refrigerant and vacuumize the system.
2	Liquid Pipe connection port	Φ12.7mm (Φ1/2") brazed connection on CTVS-EMO-H-086-E-CE-DC-1 and CTVS-EMO-H-096-E-CE-DC-1 Φ15.9mm (Φ5/8") brazed connection on CTVS-EMO-H-120-E-CE-DC-1
3	Oil balance connection port	The oil balance pipe runs between outdoor units. Φ8mm (Φ5/16") brazed connection.
4	Gas Pipe connection port	Φ25.4mm (Φ1") brazed connection on CTVS-EMO-H-086-E-CE-DC-1 and CTVS-EMO-H-096-E-CE-DC-1 Φ28.6mm (Φ1-1/8") brazed connection on CTVS-EMO-H-120-E-CE-DC-1