

<b>Job:</b>	<b>Engineer:</b>
<b>Location:</b>	<b>Architect:</b>
<b>Schedule No.:</b>	<b>Date:</b>
<b>System Designation:</b>	<b>For:</b> <input type="checkbox"/> Reference <input type="checkbox"/> Approval <input type="checkbox"/> Review <input type="checkbox"/> 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	16
	Btu/h	153,500
	kW	45.0
EER	Btu/W*h	4.1
Power Input Cooling	kW	10.98
Heating capacity (2)	Btu/h	170,600
	kW	50.0
COP	Btu/W*h	4.6
Power Input Heating	kW	10.87

##### ELECTRICAL DATA

Power Supply	V/Ph/Hz	220/3/60
Minimum Circuit Ampacity	A	54.4
Total Over-current Amps.	A	58.2
Max Fuse Amps	A	60
Compressor RLA	A	16.2x2
No. Compressors		2
Outdoor Fan Power Input	W	290+230
Outdoor Fan FLA	A	2.8+2.4

##### GENERAL DATA

Connection Ratio	%	50-130%
Max Indoor Units		26
Sound Pressure Level (4)	dB(A)	62
Outdoor Fan Air Volume	m3/h (CFM)	14000 (8240)
Refrigerant Type		R410A
Factory refrigerant charge	Kg (Lbs)	13(29)

##### DIMENSIONS

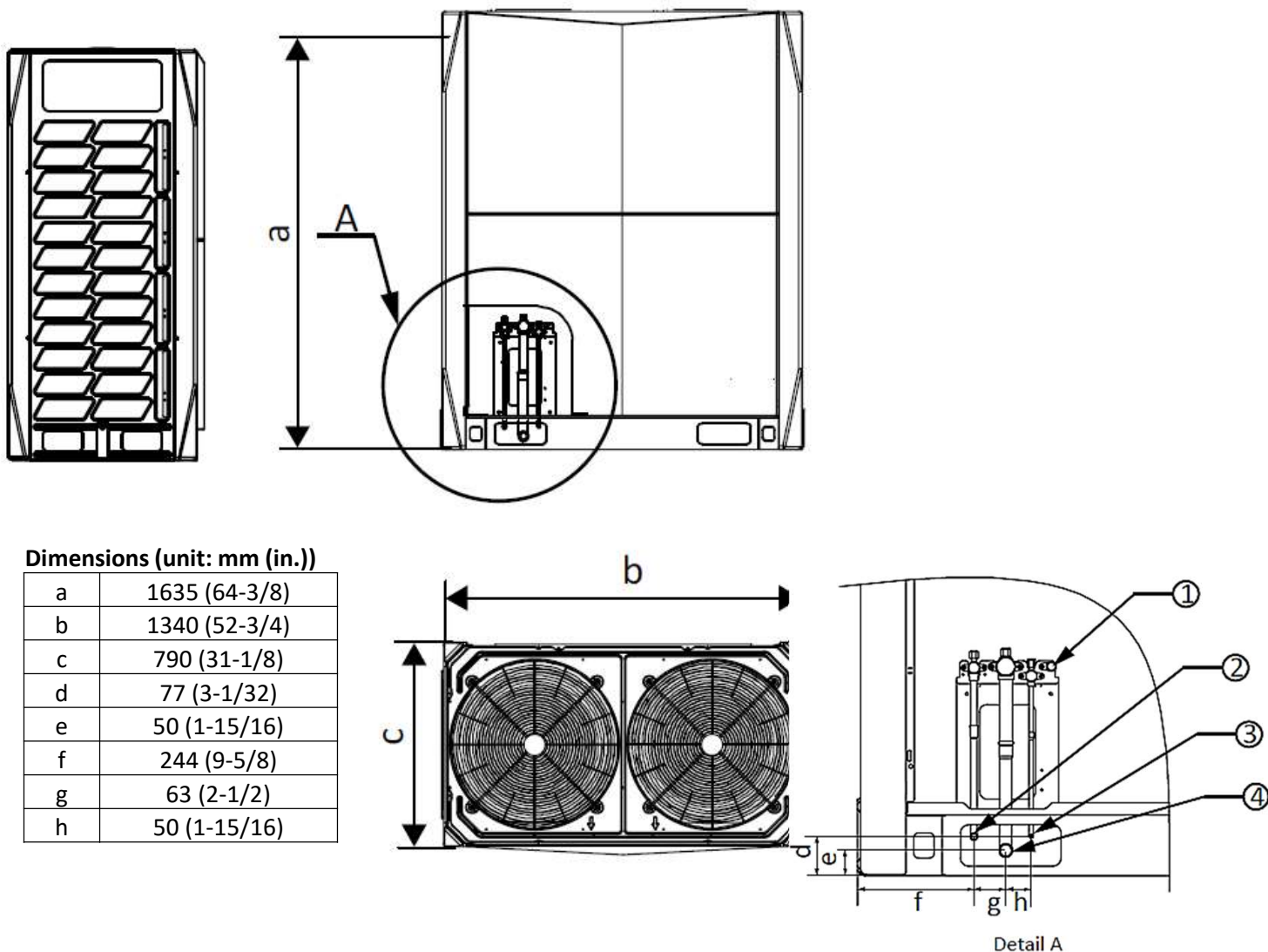
Unit Dimensions mm (inch) WxHxD	Net	1340×1635×790 (52-3/4×64-3/8×31-1/8)
	Packed	1405×1805×855 (55-3/8×71-1/16×33-5/8)
Liquid Pipe Connection (3)	mm (inch)	Φ15.9 (Φ5/8")
Gas Pipe Connection (3)	mm (inch)	Φ31.8 (Φ1-1/4")
Oil balance Pipe	mm (inch)	Φ6.35 (Φ1/4")
Net Weight	Kg (Lbs)	297 (655)
Shipping Weight	Kg (Lbs)	315 (695)



#### Notes:

- 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.
- 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.
- Diameters given are those of the unit's stop valve.
- 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)



### Legend

No.	Parts name	Remarks
1	Check Ports	The check port is used to measure systems pressure, charge refrigerant and vacuumize the system.
2	Liquid Pipe connection Port	Φ15.9mm (Φ5/8in.) brazed connection on CTVS-EMO-H-137-E-CE-DC-1 and CTVS-EMO-H-154-E-CE-DC-1 Φ19.1mm (Φ3/4in.) brazed connection on CTVS-EMO-H-171-E-CE-DC-1, CTVS-EMO-H-191-E-CE-DC-1 and CTVS-EMO-H-210-E-CE-DC-1
3	Oil balance connection Port	The oil balance pipe runs between outdoor units. Φ8mm (Φ5/16in.) brazed connection.
4	Gas Pipe connection Port	Φ31.8mm (Φ1-1/4in.) brazed connection on CTVS-EMO-H-137-E-CE-DC-1, CTVS-EMO-H-154-E-CE-DC-1, CTVS-EMO-H-171-E-CE-DC-1, CTVS-EMO-H-191-E-CE-DC-1 and CTVS-EMO-H-210-E-CE-DC-1