

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

| | | |
|----------------------|---------|---------|
| | HP | 22 |
| Cooling Capacity (1) | Btu/h | 209,800 |
| | kW | 61.5 |
| EER | Btu/W*h | 3.74 |
| Power Input Cooling | kW | 16.44 |
| Heating capacity (2) | Btu/h | 235,400 |
| | kW | 69.0 |
| COP | Btu/W*h | 4.03 |
| Power Input Heating | kW | 17.12 |

ELECTRICAL DATA

| | | |
|--------------------------|---------|----------|
| Power Supply | V/Ph/Hz | 220/3/60 |
| Minimun Circuit Ampacity | A | 94 |
| Total Over-current Amps. | A | 81.4 |
| Max Fuse Amps | A | 100 |
| Compressor RLA | A | 23.4x2 |
| No. Compressors | | 2 |
| Outdoor Fan Power Input | W | 440+350 |
| Outdoor Fan FLA | A | 4.0+3.4 |

GENERAL DATA

| | | |
|----------------------------|-------------------------|--------------|
| Connection Ratio | % | 50-130% |
| Max Indoor Units | | 36 |
| Sound Pressure Level (4) | dB(A) | 63 |
| Outdoor Fan Air Volume | m ³ /h (CFM) | 16000 (9420) |
| Refrigerant Type | | R410A |
| Factory refrigerant charge | Kg (Lbs) | 16 (35) |

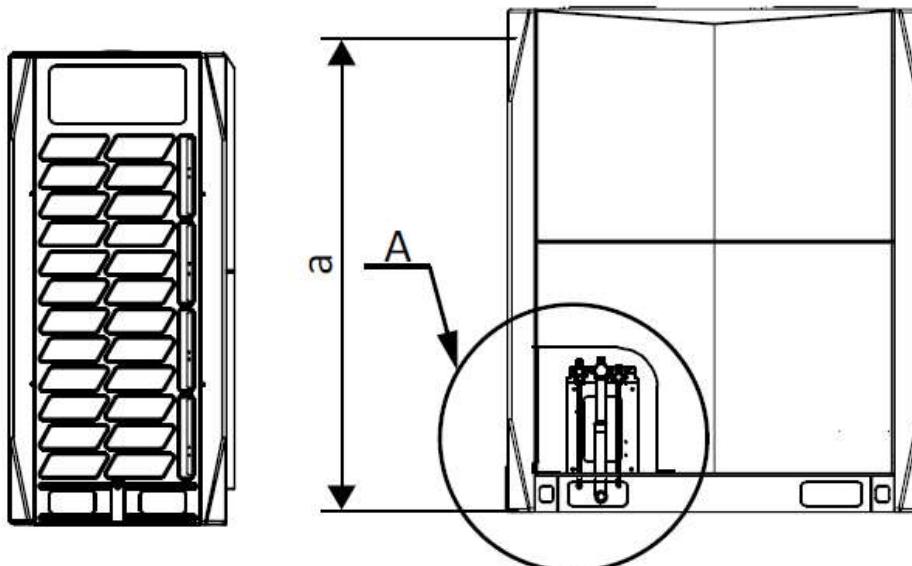
DIMENSIONS

| | | |
|------------------------------------|-----------|--|
| 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) | Φ19.1 (Φ3/4") |
| Gas Pipe Connection (3) | mm (inch) | Φ31.8 (Φ1-1/4") |
| Oil balance Pipe | mm (inch) | Φ6.35 (Φ1/4") |
| Net Weight | Kg (Lbs) | 340 (750) |
| Shipping Weight | Kg (Lbs) | 358 (790) |

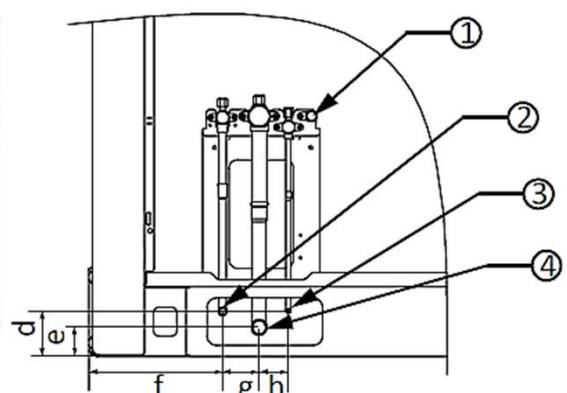
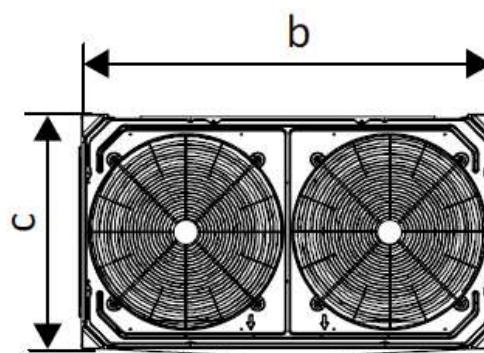


Notes:

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 | 1340 (52-3/4) |
| c | 790 (31-1/8) |
| d | 77 (3-1/32) |
| e | 50 (1-15/16) |
| f | 244 (9-5/8) |
| 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 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 |