



# LIGHT COMMERCIAL AIR CONDITIONER

## Contents

### • Multi Split

| Capacity(Btu/h)           | 7,000 | 9,000 | 12,000 | 14,000 | 18,000 | 21,000 | 24,000 | 27,000 | 28,000 | 36,000 | 42,000 |
|---------------------------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Short Duct Type           |       |       |        |        |        |        |        |        |        |        |        |
| Wall-mounted Type         |       |       |        |        |        |        |        |        |        |        |        |
| Compact cassette          |       |       |        |        |        |        |        |        |        |        |        |
| Console                   |       |       |        |        |        |        |        |        |        |        |        |
| Outdoor Unit (1 drives 2) |       |       |        |        |        |        |        |        |        |        |        |
| Outdoor Unit (1 drives 3) |       |       |        |        |        |        |        |        |        |        |        |
| Outdoor Unit (1 drive 4)  |       |       |        |        |        |        |        |        |        |        |        |
| Outdoor Unit (1 drive 5)  |       |       |        |        |        |        |        |        |        |        |        |

### • Mono LCAC

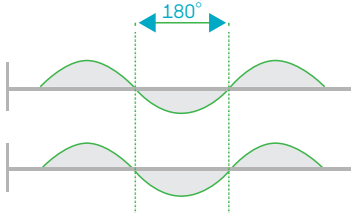
| Capacity(Btu/h)           | 18,000 | 24,000 | 36,000 | 48,000 | 55,000 | 60,000 |
|---------------------------|--------|--------|--------|--------|--------|--------|
| 360 Round flow cassette   |        |        |        |        |        |        |
| Compact 4 way cassette    |        |        |        |        |        |        |
| Floor-ceiling Unit        |        |        |        |        |        |        |
| Low ESP Short Ducted Unit |        |        |        |        |        |        |
| Medium ESP Ducted Unit    |        |        |        |        |        |        |
| High ESP Ducted Unit      |        |        |        |        |        |        |
| ERP Outdoor Unit          |        |        |        |        |        |        |
| Normal Outdoor Unit       |        |        |        |        |        |        |

# DC Inverter Multi Split Unit

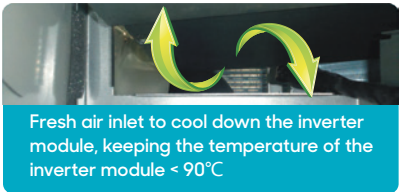


## Features

 180° sin wave compressor control, higher efficiency and lower power consumption and noise.

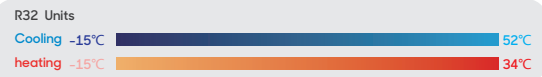


 Japanese electronic chip and new design for E-box, easy to heat elimination.



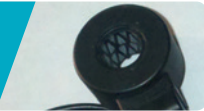
Fresh air inlet to cool down the inverter module, keeping the temperature of the inverter module < 90°C

 Wide operating range



 Anti-rust design, making electronic parts longer service life.

rust-proof coat



## Matching mode



## Specification

### R32 Multi Split Outdoor Unit



| ODU                          |               | C2OU-14HDR4-A | C2OU-18HDR4-A | C3OU-21HDR4-A          | C3OU-27HDR4-A           | C4OU-28HDR4-A                       | C4OU-36HDR4-A                         | C5OU-42HDR4-A                                |
|------------------------------|---------------|---------------|---------------|------------------------|-------------------------|-------------------------------------|---------------------------------------|----------------------------------------------|
| IDU combination              |               | 7+7<br>7+9    | 9+9<br>9+12   | 7+7+7<br>7+9+9<br>18+7 | 9+9+9<br>12+9+9<br>18+9 | 7+7+7+7<br>12+12+9<br>18+12<br>24+7 | 9+9+9+9<br>12+12+12<br>18+18<br>24+12 | 9+9+9+9+9<br>12+12+12+9<br>18+12+12<br>24+18 |
|                              | KBtu/h        |               |               |                        |                         |                                     |                                       |                                              |
| Power supply                 |               | V/N/Hz        |               |                        |                         |                                     |                                       |                                              |
| Capacity                     |               |               |               |                        |                         |                                     |                                       |                                              |
| Cooling                      | Capacity      | Btu/h         |               |                        |                         |                                     |                                       |                                              |
|                              | Input         | W             |               |                        |                         |                                     |                                       |                                              |
|                              | Rated current | A             |               |                        |                         |                                     |                                       |                                              |
|                              | EER           | W/W           |               |                        |                         |                                     |                                       |                                              |
|                              | SEER          | W/W           |               |                        |                         |                                     |                                       |                                              |
| Heating                      | Capacity      | Btu/h         |               |                        |                         |                                     |                                       |                                              |
|                              | Input         | W             |               |                        |                         |                                     |                                       |                                              |
|                              | Rated current | A             |               |                        |                         |                                     |                                       |                                              |
|                              | COP           | W/W           |               |                        |                         |                                     |                                       |                                              |
|                              | SCOP          | W/W           |               |                        |                         |                                     |                                       |                                              |
| Physical data                |               |               |               |                        |                         |                                     |                                       |                                              |
| Noise                        |               | dB(A)         |               |                        |                         |                                     |                                       |                                              |
| Net dimension(WxHxD)         |               | mm            |               |                        |                         |                                     |                                       |                                              |
| Packing dimension(WxHxD)     |               | mm            |               |                        |                         |                                     |                                       |                                              |
| Net/Gross weight             |               | kg            |               |                        |                         |                                     |                                       |                                              |
| Piping data                  |               |               |               |                        |                         |                                     |                                       |                                              |
| Liquid side/Gas side         |               | mm            |               |                        |                         |                                     |                                       |                                              |
| Max. pipe length             |               | m             |               |                        |                         |                                     |                                       |                                              |
| Max. height difference       |               | m             |               |                        |                         |                                     |                                       |                                              |
| Ambient temperature(Cooling) |               | °C            |               |                        |                         |                                     |                                       |                                              |
| Ambient temperature(Cooling) |               | °C            |               |                        |                         |                                     |                                       |                                              |
| Application area             |               | m²            |               |                        |                         |                                     |                                       |                                              |

### Note

- 1.The cooling condition T1 condition: indoor side 27°C(80.6°F) DB, 19°C(60°F) WB, outdoor side 35°C(95°F) DB;
- 2.The heating condition: indoor side 20°C(68°F) DB, 15°C(44.6°F) WB, outdoor side 7°C(42.8°F) DB
- 3.Sound level: measured at a point 1m in front of the unit at a height of 1.3m. During actual operation, these values are normally somewhat higher as a result of ambient conditions.
- 4.The above data may be changed without notice for future improvement on quality and performance.

### Wall Mounted Type

| Combination  |       | 9+7   | 7+7+7 | 7+7+7+7 | 9+9   | 9+9+9 | 9+9+9+9 |
|--------------|-------|-------|-------|---------|-------|-------|---------|
| Cooling      | Btu/h | 16000 | 21000 | 28000   | 18000 | 27000 | 36000   |
|              | kW    | 4.7   | 6.2   | 8.2     | 5.3   | 7.9   | 10.5    |
| Heating      | Btu/h | 18000 | 23000 | 30000   | 20000 | 29000 | 38000   |
|              | kW    | 5.3   | 6.7   | 8.8     | 5.9   | 8.5   | 11.1    |
| SEER(A)      |       | 6.4   | 6.3   | 6.2     | 6.2   | 6.1   | 6       |
| Energy level |       | A++   | A++   | A++     | A++   | A++   | A++     |
| SCOP(A)      |       | 4.2   | 4     | 4       | 4.1   | 4     | 4       |
| Energy level |       | A+    | A+    | A+      | A+    | A+    | A+      |
| Tbiv         |       | -10   | -10   | -10     | -10   | -10   | -10     |
| Tol          |       | -15   | -15   | -15     | -15   | -15   | -15     |

## Specification

### R32 Wall Mounted type



| Wall mounted IDU             |               |        | CCG-V07HR4-GSA-S40 | CCG-V09HR4-GSA-S40 | CCG-V12HR4-GSB-S40 | CCG-D18HR4-GSC-S40 | CCG-D24HR4-GSC-S40 |
|------------------------------|---------------|--------|--------------------|--------------------|--------------------|--------------------|--------------------|
| Power supply                 |               | V/N/Hz | 220-240/1/50       | 220-240/1/50       | 220-240/1/50       | 220-240/1/50       | 220-240/1/50       |
| Capacity                     |               |        | ↓                  | ↓                  | ↓                  | ↓                  | ↓                  |
| Cooling                      | Capacity      | Btu/h  | 7000               | 9000               | 12000              | 18000              | 24000              |
|                              | Input         | W      | 35                 | 35                 | 45                 | 55                 | 65                 |
|                              | Rated current | A      | 0.3                | 0.3                | 0.4                | 0.5                | 0.6                |
| Heating                      | Capacity      | Btu/h  | 8000               | 10000              | 13000              | 19000              | 25000              |
|                              | Input         | W      | 35                 | 35                 | 45                 | 55                 | 65                 |
|                              | Rated current | A      | 0.3                | 0.3                | 0.4                | 0.5                | 0.6                |
| Physical data                |               |        | ↓                  | ↓                  | ↓                  | ↓                  | ↓                  |
| Indoor air flow              |               | m³/h   | 450                | 450                | 550                | 850                | 1020               |
| Indoor noise level(Hi/Mi/Lo) |               | dB(A)  | 30/27/24           | 33/28/24           | 36/30/25           | 44/40/36           | 45/42/38           |
| Sound power noise level(Hi)  |               | dB(A)  | 39                 | 39                 | 42                 | 45                 | 48                 |
| Net dimension(WxHxD)         |               | mm     | 864*300*200        | 864*300*200        | 864*300*200        | 972*320*215        | 972*320*215        |
| packing dimension(WxHxD)     |               | mm     | 950*380*290        | 950*380*290        | 950*380*290        | 1070*410*310       | 1070*410*310       |
| Net/Gross weight             |               | kg     | 9.5/12.0           | 9.5/12.0           | 9.5/12.5           | 11.5/14.5          | 11.5/14.5          |
| Piping data                  |               |        | ↓                  | ↓                  | ↓                  | ↓                  | ↓                  |
| Liquid/Gas                   |               | mm     | 6.35/9.52          | 6.35/9.52          | 6.35/9.52          | 6.35/12.7          | 9.52/15.88         |
| Drainage pipe                |               | mm     | DN20               | DN20               | DN20               | DN20               | DN20               |
| Application area             |               | m²     | 10-15              | 12-18              | 16-23              | 23-34              | 34-51              |

### Cassette Type

| Combination  |       | 9+7   | 7+7+7 | 7+7+7+7 | 9+9   | 9+9+9 | 9+9+9+9 |
|--------------|-------|-------|-------|---------|-------|-------|---------|
| Cooling      | Btu/h | 16000 | 21000 | 28000   | 18000 | 27000 | 36000   |
|              | kW    | 4.7   | 6.2   | 8.2     | 5.3   | 7.9   | 10.5    |
| Heating      | Btu/h | 18000 | 23000 | 30000   | 20000 | 29000 | 38000   |
|              | kW    | 5.3   | 6.7   | 8.8     | 5.9   | 8.5   | 11.1    |
| SEER(A)      |       | 6.4   | 6.3   | 6.2     | 6.2   | 6.1   | 6       |
| Energy level |       | A++   | A++   | A++     | A++   | A++   | A++     |
| SCOP(A)      |       | 4.2   | 4     | 4       | 4.1   | 4     | 4       |
| Energy level |       | A+    | A+    | A+      | A+    | A+    | A+      |
| Tbiv         |       | -10   | -10   | -10     | -10   | -10   | -10     |
| Tol          |       | -15   | -15   | -15     | -15   | -15   | -15     |

### R32 Cassette Type



| CASSETTE IDU                 |               |        | CCB-D07HR4-Q402 | CCB-D09HR4-Q402 | CCB-D12HR4-Q402 | CCB-D18HR4-Q402 |
|------------------------------|---------------|--------|-----------------|-----------------|-----------------|-----------------|
| Power supply                 |               | V/N/Hz | 220-240/1/50    | 220-240/1/50    | 220-240/1/50    | 220-240/1/50    |
| Capacity                     |               |        | ↓               | ↓               | ↓               | ↓               |
| Cooling                      | Capacity      | Btu/h  | 7000            | 9000            | 12000           | 18000           |
|                              | Input         | W      | 25              | 25              | 26              | 34              |
|                              | Rated current | A      | 0.12            | 0.12            | 0.12            | 0.16            |
| Heating                      | Capacity      | Btu/h  | 8000            | 10000           | 13000           | 19000           |
|                              | Input         | W      | 25              | 25              | 26              | 34              |
|                              | Rated current | A      | 0.12            | 0.12            | 0.12            | 0.16            |
| Physical data                |               |        | ↓               | ↓               | ↓               | ↓               |
| Indoor air flow(Hi/Mi/Lo)    |               | m³/h   | 540/490/410     | 540/490/410     | 690/610/520     | 790/710/610     |
| Indoor noise level(Hi/Mi/Lo) |               | dB(A)  | 39/36/33        | 39/36/33        | 40/37/34        | 44/41/38        |
| Sound power noise level(Hi)  |               | dB(A)  | 50              | 50              | 54              | 55              |
| Net dimension(WxHxD)         |               | mm     | 580x267x580     | 580x267x580     | 580x267x580     | 580x267x580     |
| packing dimension(WxHxD)     |               | mm     | 745x375x675     | 745x375x675     | 745x375x675     | 745x375x675     |
| Net/Gross weight             |               | kg     | 16.5/21.5       | 16.5/21.5       | 16.5/21.5       | 16.5/21.5       |
| Piping data                  |               |        | ↓               | ↓               | ↓               | ↓               |
| Liquid/Gas                   |               | mm     | 6.35/9.52       | 6.35/9.52       | 6.35/9.52       | 6.35/12.7       |
| Drainage pipe                |               | mm     | DN25            | DN25            | DN25            | DN25            |
| Application area             |               | m²     | 10-15           | 12-18           | 16-23           | 23-34           |

## Multi Split Indoor Unit

### Short Duct Type

| Combination  |       | 9+7   | 7+7+7 | 7+7+7+7 | 9+9   | 9+9+9 | 9+9+9+9 |
|--------------|-------|-------|-------|---------|-------|-------|---------|
| Cooling      | Btu/h | 16000 | 21000 | 28000   | 18000 | 27000 | 36000   |
|              | kW    | 4.7   | 6.2   | 8.2     | 5.3   | 7.9   | 10.5    |
| Heating      | Btu/h | 18000 | 23000 | 30000   | 20000 | 29000 | 38000   |
|              | kW    | 5.3   | 6.7   | 8.8     | 5.9   | 8.5   | 11.1    |
| SEER(A)      |       | 6.4   | 6.4   | 6.4     | 6.2   | 6.1   | 6.4     |
| Energy level |       | A++   | A++   | A++     | A++   | A++   | A++     |
| SCOP(A)      |       | 4.2   | 4     | 4       | 4.1   | 4     | 4       |
| Energy level |       | A+    | A+    | A+      | A+    | A+    | A+      |
| Tbiv         |       | -10   | -10   | -10     | -10   | -10   | -10     |
| Tol          |       | -15   | -15   | -15     | -15   | -15   | -15     |

### R32 Short Duct Type



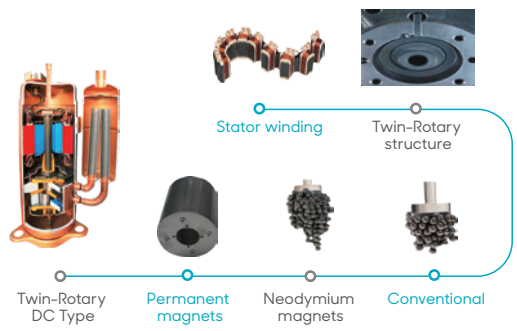
| DUCTED IDU                   |               |        | CTA-D07HR4-F101 | CTA-D09HR4-F101 | CTA-D12HR4-F101 | CTA-D18HR4-F102 |
|------------------------------|---------------|--------|-----------------|-----------------|-----------------|-----------------|
| Power supply                 |               | V/N/Hz | 220-240/1/50    | 220-240/1/50    | 220-240/1/50    | 220-240/1/50    |
| Capacity                     |               |        | ↓               | ↓               | ↓               | ↓               |
| Cooling                      | Capacity      | Btu/h  | 7000            | 9000            | 12000           | 18000           |
|                              | Input         | W      | 20              | 20              | 30              | 45              |
|                              | Rated current | A      | 0.1             | 0.1             | 0.15            | 0.2             |
| Heating                      | Capacity      | Btu/h  | 8000            | 10000           | 13000           | 19000           |
|                              | Input         | W      | 20              | 20              | 30              | 45              |
|                              | Rated current | A      | 0.1             | 0.1             | 0.15            | 0.2             |
| Physical data                |               |        | ↓               | ↓               | ↓               | ↓               |
| Indoor air flow(Hi/Mi/Lo)    |               | m³/h   | 550/410/340     | 550/410/340     | 680/580/450     | 800/700/600     |
| Indoor noise level(Hi/Mi/Lo) |               | dB(A)  | 30/26/23        | 30/26/23        | 36/31/27        | 32/30/26        |
| Sound power noise level(Hi)  |               | dB(A)  | 47              | 47              | 52              | 48              |
| Net dimension(WxHxD)         |               | mm     | 814x210x467     | 814x210x467     | 814x210x467     | 1010x210x467    |
| packing dimension(WxHxD)     |               | mm     | 910x240x510     | 910x240x510     | 910x240x510     | 1110x240x510    |
| Net/Gross weight             |               | kg     | 17/19.5         | 17/19.5         | 17/19.5         | 20.5/24         |
| Piping data                  |               |        | ↓               | ↓               | ↓               | ↓               |
| Liquid/Gas                   |               | mm     | 6.35/9.52       | 6.35/9.52       | 6.35/9.52       | 6.35/12.7       |
| Drainage pipe                |               | mm     | DN25            | DN25            | DN25            | DN25            |
| Application area             |               | m²     | 10-15           | 12-18           | 16-23           | 23-34           |

DC Inverter Mono LCAC  
ERP Outdoor unit



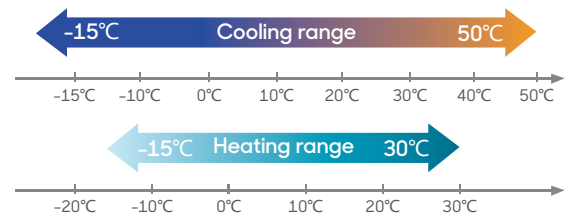
Features

High efficiency twin rotary DC inverter compressor, system can operate in the best performance due to adjustable frequency.



Energy saving and excellent efficiency. Reaching European A++ and A+ class energy label, meets the EU's new energy efficiency requirement. Comply with ErP directive.

Wide outdoor operation range, the cooling operation temperature is down to -15 degree.



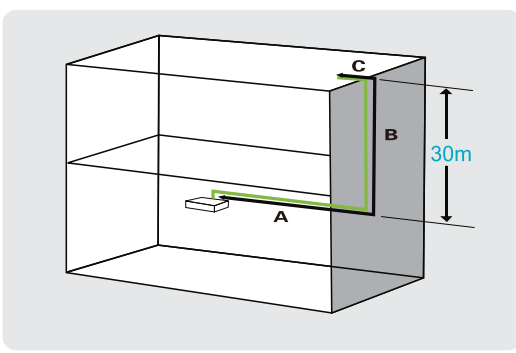
New integrated PCB has big contribution to AC fast reply and simple service. Fin type heat sink and refrigerant cooling gives PCB a cool working condition.



New electric control box material change from metal to plastic, not only reduce the weight, but also avoid the short circuit cause by the PCB touch the metal box.



Long piping design, for 36K-55K Btu/h, the MAX pipe length is 65m, and height difference is 30m.



Specification

R32 Heat Pump

| Model                     |                      | COU-D18HR4-A01   | COU-D24HR4-C01 | COU-D36HR4-D01 | COU-D36HR4-D01 | COU-48HR4      | COU-48HR4      | COU-55HR4      |
|---------------------------|----------------------|------------------|----------------|----------------|----------------|----------------|----------------|----------------|
| Outdoor power supply      |                      | V/N/Hz           | 220-240/1/50   | 220-240/1/50   | 220-240/1/50   | 380-415/3/50   | 220-240/1/50   | 380-415/3/50   |
| Performance               |                      |                  |                |                |                |                |                |                |
| Cooling Capacity          | Btu/h                | 18000            | 24000          | 36000          | 36000          | 48000          | 48000          | 55000          |
|                           | kW                   | 2.0-5.3-5.6      | 2.9-7.0-8.0    | 3.6-10.5-12.8  | 3.6-10.5-12.8  | 7.0-14.0-15.5  | 7.0-14.0-15.5  | 7.5-16.0-17.0  |
| Heating Capacity          | Btu/h                | 18000            | 26000          | 39000          | 39000          | 52000          | 52000          | 57000          |
|                           | kW                   | 2.2-5.3-5.8      | 3.3-7.7-8.5    | 4.35-11.5-13.2 | 4.35-11.5-13.2 | 8.0-15.2-16.0  | 8.0-15.2-16.0  | 8.5-16.8-17.5  |
| Physical data             |                      |                  |                |                |                |                |                |                |
| Compressor                |                      | DC/Single-rotary | DC/Twin-rotary | DC/Twin-rotary | DC/Twin-rotary | DC/Twin-rotary | DC/Twin-rotary | DC/Twin-rotary |
| Fan motor                 |                      | DC               | DC             | DC             | DC             | DC             | DC             | DC             |
| Outdoor noise level       | Power level          | 66               | 68             | 69             | 69             | 68             | 68             | 68             |
|                           | Pressure level       | 52               | 54             | 58             | 58             | 58             | 58             | 58             |
| Outdoor unit              | Dimension(WxHxD)     | 880×555×345      | 935×702×382    | 1032×807×445   | 1032×807×445   | 1015×1430×450  | 1015×1430×450  | 1015×1430×450  |
|                           | Packing(WxHxD)       | 920×600×380      | 975×770×435    | 1075×875×495   | 1075×875×495   | 1095×1545×485  | 1095×1545×485  | 1095×1545×485  |
|                           | Net/Gross weight     | 32.5/35          | 48.7/52.6      | 61.3/65        | 71.2/75        | 109/123.6      | 109/123.6      | 112/126.6      |
| Refrigerant type/quantity |                      | R32/1200         | R32/1450       | R32/2400       | R32/2400       | R32/3800       | R32/3800       | R32/3800       |
| Piping data               |                      |                  |                |                |                |                |                |                |
| Refrigerant piping        | Liquid side/Gas side | Φ6.35/Φ12.7      | Φ9.52/Φ15.88   | Φ9.52/Φ15.88   | Φ9.52/Φ15.88   | Φ9.52/Φ15.88   | Φ9.52/Φ15.88   | Φ9.52/Φ15.88   |
|                           | Max. pipe length     | 15(30)           | 20(50)         | 50(65)         | 50(65)         | 50(65)         | 50(65)         | 50(65)         |
|                           | Max. high drop       | 8(20)            | 10(25)         | 20(30)         | 20(30)         | 20(30)         | 20(30)         | 20(30)         |
| Ambient temp              | cooling              | -15~50           | -15~50         | -15~50         | -15~50         | -15~50         | -15~50         | -15~50         |
|                           | heating              | -15~30           | -15~30         | -15~30         | -15~30         | -15~30         | -15~30         | -15~30         |

Note 1.The cooling condition T1 condition: indoor side 27°C(80.6°F) DB, 19°C(60°F) WB, outdoor side 35°C(95°F) DB;  
2.The heating condition: indoor side 20°C(68°F) DB, 15°C(44.6°F) WB, outdoor side 7°C(42.8°F) DB  
3.Sound level: measured at a point 1m in front of the unit at a height of 1.3m. During actual operation, these values are normally somewhat higher as a result of ambient conditions.  
4.The above data may be changed without notice for future improvement on quality and performance.

• Cassette Unit

Controller



Features

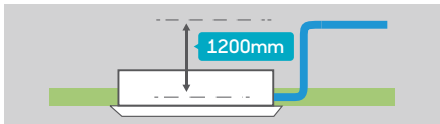
Digital tube display is optional for round flow cassette.



Streamlined design and 3D spiral fan blade, reduces air resistance and operation noise.



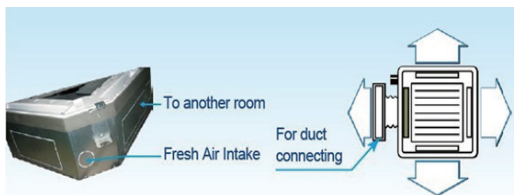
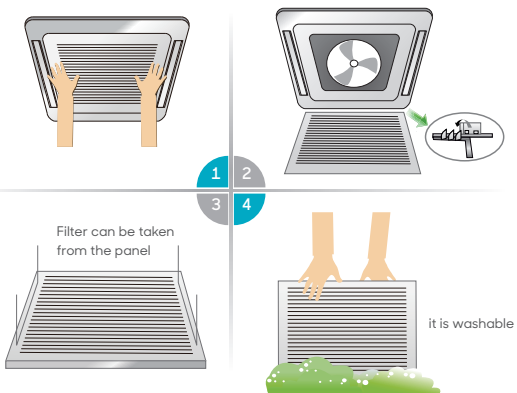
Built-in water pump, pump head up to 1200mm(compact 4-way cassette pump head up to 700mm).



Four interfaces to connect with duct to another room. Fresh air intake, more healthy and comfortable.



Washable filter, convenient installation and maintenance.



Specification

R32 Heat Pump



| Model                     |        | CCB-D18HR4-Q402 | CCR-D18HR4-Q303 | CCR-D24HR4-Q303 | CCR-D36HR4-Q305 | CCR-48HR4      | CCR-48HVR4S    | CCR-55HVR4S    |
|---------------------------|--------|-----------------|-----------------|-----------------|-----------------|----------------|----------------|----------------|
| Outdoor power supply      | V/N/Hz | 220-240/1/50    | 220-240/1/50    | 220-240/1/50    | 220-240/1/50    | 220-240/1/50   | 220-240/1/50   | 220-240/1/50   |
| Performance               |        |                 |                 |                 |                 |                |                |                |
| Cooling Capacity          | kW     | 2.0-5.3-5.6     | 2.0-5.3-5.6     | 2.9-7.0-8.0     | 3.6-10.5-12.8   | 7.0-14.0-15.5  | 7.0-14.0-15.5  | 7.5-16.0-17.0  |
| SEER                      | W/W    | 5.6             | 6.1             | 6.1             | 6.1             | 6.1            | 6.1            | 6.1            |
| Heating Capacity          | kW     | 2.2-5.3-5.8     | 2.2-5.3-5.8     | 3.3-7.7-8.5     | 4.35-11.5-13.2  | 8.0-15.2-16.0  | 8.0-15.2-16.0  | 8.5-16.8-17.5  |
| SCOP                      | W/W    | 4.0             | 4.0             | 4.0             | 4.0             | 4.0            | 4.0            | 4.0            |
| Cooling energy rate       |        | A+              | A++             | A++             | A++             | A++            | A++            | A++            |
| Heating energy rate       |        | A+              | A+              | A+              | A+              | A+             | A+             | A+             |
| Indoor airflow(Hi/Lo/Med) | m³/h   | 650             | 900/800/650     | 1100/1000/850   | 1800/1700/1550  | 2000/1800/1600 | 2000/1800/1600 | 2000/1900/1700 |
| Physical data             |        |                 |                 |                 |                 |                |                |                |
| Power noise level         | dB (A) | 46-55           | 46-58           | 56-63           | 53-61           | 54-62          | 54-62          | 54-62          |
| Pressure noise level      | dB (A) | 36/39/43        | 36/41/45        | 43/46/49        | 43/45/48        | 45-52          | 45-52          | 45-52          |
| Net dimension (WxHxD)     | Body   | 580x267x580     | 840x230x840     | 840x230x840     | 840x285x840     | 840x285x840    | 840x285x840    | 840x285x840    |
|                           | Panel  | 650x29.8x650    | 950x50x950      | 950x50x950      | 950x50x950      | 950x50x950     | 950x50x950     | 950x50x950     |
| Packing (WxHxD)           | Body   | 745x375x675     | 920x265x920     | 920x265x920     | 920x310x920     | 920x310x920    | 920x310x920    | 920x310x920    |
|                           | Panel  | 750x95x750      | 1030x100x1030   | 1030x100x1030   | 1030x100x1030   | 1030x100x1030  | 1030x100x1030  | 1030x100x1030  |
| Panel Net/ Gross weight   | Body   | 16.5/21.5       | 25/30           | 25/30           | 30.5/36         | 32/37.5        | 32/37.5        | 32/37.5        |
|                           | Panel  | 2.7/4.0         | 6.5/9.5         | 6.5/9.5         | 6.5/9.5         | 6.5/9.5        | 6.5/9.5        | 6.5/9.5        |
| Piping data               |        |                 |                 |                 |                 |                |                |                |
| Liquid /Gas side          | mm     | Φ6.35/Φ12.7     | Φ6.35/Φ12.7     | Φ9.52/Φ15.88    | Φ9.52/Φ15.88    | Φ9.52/Φ15.88   | Φ9.52/Φ15.88   | Φ9.52/Φ15.88   |
| Drain pipe                | mm     | DN25            | DN25            | DN25            | DN25            | DN25           | DN25           | DN25           |

Note

- 1.The cooling condition T1 condition: indoor side 27°C(80.6°F) DB, 19°C(60°F) WB, outdoor side 35°C(95°F) DB;
- 2.The heating condition: indoor side 20°C(68°F) DB, 15°C(44.6°F) WB, outdoor side 7°C(42.8°F) DB
- 3.Sound level: measured at a point 1m in front of the unit at a height of 1.3m. During actual operation, these values are normally somewhat higher as a result of ambient conditions.
- 4.The above data may be changed without notice for future improvement on quality and performance.

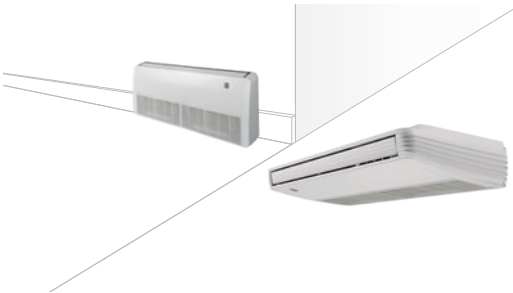
• Floor & Ceiling Unit

Controller

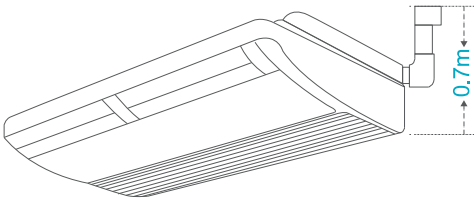


Features

Flexible installation, ceiling suspended and floor standing.



Water pump is optional, the pumping head is up to 700mm.



DC motor is standard operating stably and precisely control for temperature.



Auto-swing function, built-in two louver motor, vertical and horizontal air-flow adjustment.



Digital display is standard, on the right side. It is more intuitive and simple, and error code can be shown in the display.



New upper and lower buckle type wheel case, the upper wheel case can be removed alone, which is convenient adjust the wheel motor.



Specification

R32 Heat Pump R32 ErP

| Model                      |                       | CUA-D18HR4-LDBA | CUA-D24HR4-LDBA | CUA-D36HR4-LDBB | CUA-D48HR4-LDBC | CUA-D55HR4-LDBC |
|----------------------------|-----------------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Outdoor power supply       | V/N/Hz                | 220-240/1/50    | 220-240/1/50    | 220-240/1/50    | 220-240/1/50    | 220-240/1/50    |
| Performance                |                       |                 |                 |                 |                 |                 |
| Cooling Capacity           | kW                    | 2.0-5.3-5.6     | 2.9-7.0-8.0     | 3.6-10.5-12.8   | 7.0-14.0-15.5   | 7.5-16.0-17.0   |
| SEER                       | W/W                   | 6.1             | 6.1             | 6.1             | 6.1             | 6.1             |
| Heating Capacity           | kW                    | 2.2-5.3-5.8     | 3.3-7.7-8.5     | 4.35-11.5-13.2  | 8.0-15.2-16.0   | 8.5-16.8-17.5   |
| SCOP                       | W/W                   | 4.0             | 4.0             | 4.0             | 4.0             | 4.0             |
| Cooling energy rate        |                       | A++             | A++             | A++             | A++             | A++             |
| Heating energy rate        |                       | A+              | A+              | A+              | A+              | A+              |
| Indoor airflow(Hi/Low/Med) | m³/h                  | 1200            | 1200            | 1800/1650/1500  | 2000/1700/1600  | 2000/1700/1600  |
| Physical data              |                       |                 |                 |                 |                 |                 |
| Power noise level          | dB(A)                 | 48-52           | 48-52           | 57-65           | 58-66           | 58-66           |
| Pressure noise level       | dB(A)                 | 36-47           | 36-47           | 45-51           | 45-52           | 46-52           |
| Net dimension(WxHxD)       |                       | 1050×675×235    | 1050×675×235    | 1250×675×235    | 1670×675×235    | 1670×675×235    |
| Packing(WxHxD)             |                       | 1130×765×330    | 1130×765×330    | 1380×765×325    | 1750×770×325    | 1750×770×325    |
| Panel Net/Gross weight     |                       | 26.5/31         | 26.5/31         | 31.3/36.2       | 49/56           | 49/56           |
| Piping data                |                       |                 |                 |                 |                 |                 |
| Diameter                   | Liquid side /Gas side | mm              | mm              | mm              | mm              | mm              |
| Drain pipe                 |                       | mm              | mm              | mm              | mm              | mm              |
|                            |                       | Φ6.35/Φ12.7     | Φ9.52/Φ15.88    | Φ9.52/Φ15.88    | Φ9.52/Φ15.88    | Φ9.52/Φ15.88    |
|                            |                       | DN25            | DN25            | DN25            | DN25            | DN25            |

Note

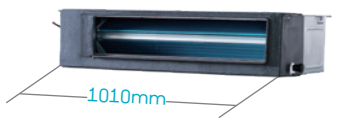
- 1.The cooling condition T1 condition: indoor side 27°C(80.6°F) DB, 19°C(60°F) WB, outdoor side 35°C(95°F) DB;
- 2.The heating condition: indoor side 20°C(68°F) DB, 15°C(44.6°F) WB, outdoor side 7°C(42.8°F) DB
- 3.Sound level: measured at a point 1m in front of the unit at a height of 1.3m. During actual operation, these values are normally somewhat higher as a result of ambient conditions.
- 4.The above data may be changed without notice for future improvement on quality and performance.

• Low ESP Short Ducted Unit

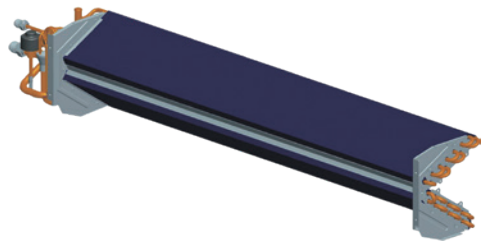


Features

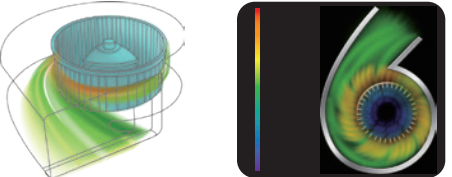
Short body, 1010 mm length, easy to install, low noise and light weight, suitable for hotel room.



V shaped evaporator design, increasing the heating exchanger efficiency.



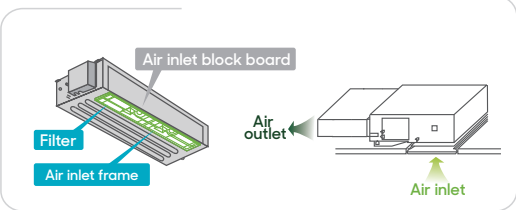
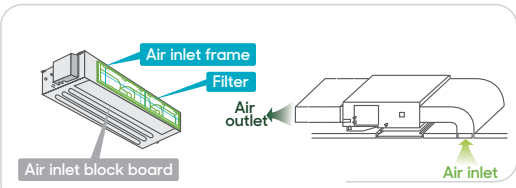
Adopting aviation centrifugal fan blade with special air tunnel design, as well as fan motor anti-vibration measure, benefit to increase air flow and decrease the noise.



DC motor is standard, operating stably, lower energy consumption and high efficiency.



Air return method is optional by actual installation, from rear or from bottom.



Water pump is optional, pump head is up to 700mm.



Specification

R32 Heat Pump



| Model                     |                |        | CTA-D18HR4-F102 |     | CTA-D24HR4-F103 |  |
|---------------------------|----------------|--------|-----------------|-----|-----------------|--|
| Indoor power supply       |                | V/N/Hz | 220-240V/1/50   |     | 220-240V/1/50   |  |
| Performance               |                |        | ▽               |     | ▽               |  |
| Cooling                   | Capacity       | Btu/h  | 18000           |     | 24,000          |  |
|                           |                | kW     | 2.0-5.3-5.6     |     | 2.9-7.0-8.0     |  |
|                           | SEER           | 6.1    |                 | 6.1 |                 |  |
|                           | Energy class   | A++    |                 | A++ |                 |  |
| Heating                   | Capacity       | Btu/h  | 18000           |     | 26,000          |  |
|                           |                | kW     | 2.2-5.3-5.8     |     | 3.3-7.7-8.5     |  |
|                           | SCOP           | 4.0    |                 | 4.0 |                 |  |
|                           | Energy class   | A+     |                 | A+  |                 |  |
| Physical data             |                |        | ▽               |     | ▽               |  |
| Airflow                   |                | m³/h   | 800/700/600     |     | 1050/950/750    |  |
| Stastic pressure          |                | Pa     | 30              |     | 30              |  |
| Static pressure range     |                | Pa     | 0-60            |     | 0-100           |  |
| Noise level (MAX)         | Power level    | dB (A) | 46-58           |     | 56-63           |  |
|                           | Pressure level |        | 36/40/45        |     | 43/45/47        |  |
| Net dimension (WxHxD)     |                | mm     | 1010×210×467    |     | 1214×210×467    |  |
| Net weight                |                | kg     | 22.5            |     | 25              |  |
| Packing dimension (WxHxD) |                | mm     | 1110×240×510    |     | 1310x240x510    |  |
| Gross weight              |                | kg     | 26              |     | 28              |  |
| Piping data               |                |        | ▽               |     | ▽               |  |
| Diameter                  | Liquid side    | mm     | Φ6.35           |     | Φ9.52           |  |
|                           | Gas side       | mm     | Φ12.7           |     | Φ15.88          |  |
| Drain pipe                |                | mm     | DN25            |     | DN25            |  |

Note

- 1.The cooling condition T1 condition: indoor side 27°C(80.6°F) DB, 19°C(60°F) WB, outdoor side 35°C(95°F) DB;
- 2.The heating condition: indoor side 20°C(68°F) DB, 15°C(44.6°F) WB, outdoor side 7°C(42.8°F) DB
- 3.Sound level: measured at a point 1m in front of the unit at a height of 1.3m. During actual operation, these values are normally somewhat higher as a result of ambient conditions.
- 4.The above data may be changed without notice for future improvement on quality and performance.

\*.We suggest that for 18K&24K units, external static pressure is lower than 30Pa. If higher static pressure is needed, please contact with supplier.

Low ESP Short Ducted Unit



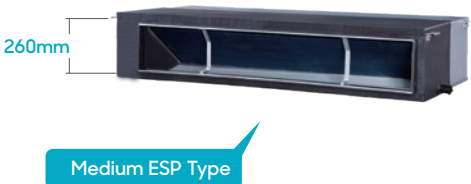
# • Medium ESP Ducted Unit

Controller

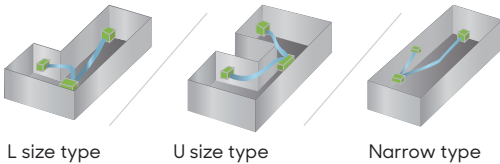


## Features

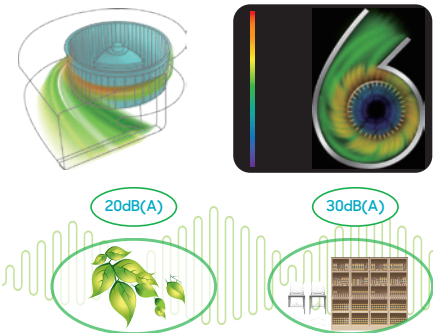
260mm ultra thin body design,saves lots of installation space,fully meet various installation requirements.



High ESP design for medium static pressure duct, duct connected installation meet for different room structure.



Adopting aviation centrifugal fan blade with special air tunnel design, as well as fan motor anti-vibrationmeasure, benefit to increase air flow and decrease the noise.



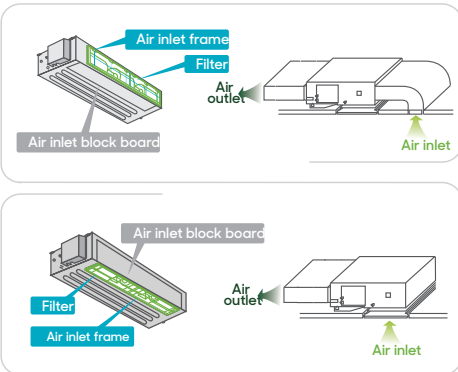
Body-side is E-box, convenient installation and maintenance.



World famous brand DC motor is standard ,save energy and control the room temperature more prcisely.



Air return method is optional by actual installation, from rear or from bottom.



## Specification

R32 Heat Pump



| Model                         |        | CTB-D36HR4-F205 | CTB-48HVR4     | CTB-48HVR4S    | CTB-55HVR4S    |
|-------------------------------|--------|-----------------|----------------|----------------|----------------|
| Outdoor power supply          | V/N/Hz | 220-240/1/50    | 220-240/1/50   | 220-240/1/50   | 220-240/1/50   |
| Performance                   |        | ▽               | ▽              | ▽              | ▽              |
| Cooling Capacity              | kW     | 3.6-10.5-12.8   | 7.0-14.0-15.5  | 7.0-14.0-15.5  | 7.5-16.0-17.0  |
| SEER                          | W/W    | 6.1             | 6.1            | 6.1            | 6.1            |
| Heating Capacity              | kW     | 4.35-11.5-13.2  | 8.0-15.2-16.0  | 8.0-15.2-16.0  | 8.5-16.8-17.5  |
| SCOP                          | W/W    | 4.0             | 4.0            | 4.0            | 4.0            |
| Cooling energy rate           |        | A++             | A++            | A++            | A++            |
| Heating energy rate           |        | A+              | A+             | A+             | A+             |
| Indoor airflow(Hi/Low/Med)    | m³/h   | 1800/1690/1130  | 2500/2350/1980 | 2500/2350/1980 | 2500/2350/1980 |
| Physical data                 |        | ▽               | ▽              | ▽              | ▽              |
| Rated power noise level       | dB(A)  | 55-63           | 56-64          | 56-64          | 56-64          |
| Static pressure               | Pa     | 50              | 50             | 50             | 50             |
| Static pressure range         | Pa     | 0-120           | 0-160          | 0-160          | 0-160          |
| Net dimension(WxHxD)          | mm     | 1425x260x643    | 1279x307x830   | 1279x307x830   | 1279x307x830   |
| Packing(WxHxD)                | mm     | 1490x325x720    | 1395x380x920   | 1395x380x920   | 1395x380x920   |
| Panel Net/Gross weight        | kg     | 49/52           | 49/56          | 49/56          | 49/56          |
| Piping data                   |        | ▽               | ▽              | ▽              | ▽              |
| Diameter Liquid side/Gas side | mm     | Φ9.52/Φ15.88    | Φ9.52/Φ15.88   | Φ9.52/Φ15.88   | Φ9.52/Φ15.88   |
| Drain pipe                    | mm     | DN25            | DN25           | DN25           | DN25           |

### Note

1.The cooling condition T1 condition: indoor side 27°C(80.6°F) DB, 19°C(60°F) WB, outdoor side 35°C(95°F) DB;  
 2.The heating condition: indoor side 20°C(68°F) DB, 15°C(44.6°F) WB, outdoor side 7°C(42.8°F) DB  
 3.Sound level: measured at a point 1m in front of the unit at a height of 1.3m. During actual operation, these values are normally somewhat higher as a result of ambient conditions.  
 4.The above data may be changed without notice for future improvement on quality and performance.  
 \*: We suggest that for 18K&24K units, external static pressure is lower than 30Pa, for 36K units, external static pressure is lower than 80Pa. If higher static pressure is needed, please contact with supplier.

• Console



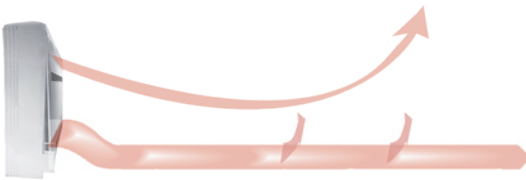
Console

Features



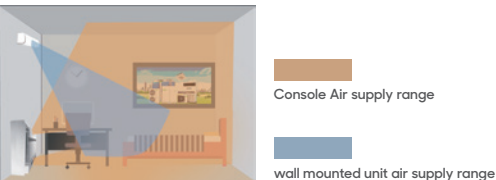
Perfect Air Organization, Carpet Style Heating

Console adopts upper and lower dual air supply design, The lower air outlet port uses the principle of adherent flow to achieve hot air covering the entire room along the ground, and the upper air outlet perfects the airflow organization to achieve rapid temperature control. Indoor comfort is comparable to floor heating, but the heating efficiency is far better than floor heating equipment.



Large Air Supply Range

After repeatedly optimizing the air outlet panel and air guide strip of the console, the air supply angle of the upper air outlet reaches 60° , covering the entire room easily. Compared with the traditional wall-mounted unit, the console is equipped with a DC motor fan with a larger fan blade area and higher air output efficiency. On the basis of almost unchanged energy consumption, the air volume and air supply range are greatly increased.



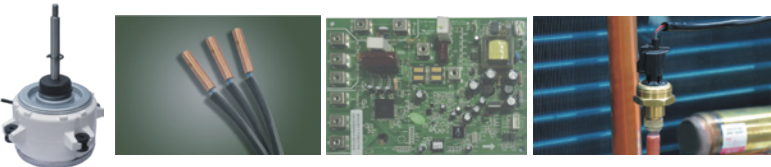
High Efficiency And Low Noise

Both the indoor and outdoor units are designed with DC motors, which can perform stepless speed regulation according to the system load, with higher operating efficiency and lower operating noise.



World Famous Brand Spare Parts

All purchased spare parts are from world famous brands, and the quality is stable and reliable.



Specification

Console



| Console IDU                 |               |       | CZA-D09HR4-ZA    | CZA-D12HR4-ZA    | CZA-D18HR4-ZA    |
|-----------------------------|---------------|-------|------------------|------------------|------------------|
| Power supply                |               |       | 220-240/1/50     | 220-240/1/50     | 220-240/1/50     |
| Capacity                    |               |       | 4500~9000~9900   | 6000~12000~13200 | 9000~18000~19800 |
| Cooling                     | Capacity      | Btu/h | 1.3~2.6~2.9      | 1.76~3.5~3.87    | 2.64~5.3~5.80    |
|                             | Input         | W     | 35~40~45         | 35~40~45         | 40~45~50         |
|                             | Rated current | A     | 0.20             | 0.20             | 0.22             |
| Heating                     | Capacity      | Btu/h | 5000~10000~11000 | 6500~13000~14300 | 9500~19000~20900 |
|                             | Input         | W     | 1.5~2.9~3.2      | 1.91~3.8~4.19    | 2.78~5.6~6.13    |
|                             | Rated current | A     | 35~40~45         | 35~40~45         | 40~45~50         |
| Physical data               |               |       | 520/480/420      | 560/520/480      | 610/560/520      |
| Indoor air flow(Hi/Mi/Lo)   |               | m³/h  | 39/37/35         | 41/39/37         | 43/41/39         |
| Indoor noise(Hi/Mi/Lo)      |               | dB(A) | 50/48/46         | 52/50/48         | 54/52/50         |
| Sound power noise(Hi/Mi/Lo) |               | dB(A) | 700x630x215      | 700x630x215      | 700x630x215      |
| Net dimension(WxHxD)        |               | mm    | 790x700x275      | 790x700x275      | 790x700x275      |
| packing dimension(WxHxD)    |               | mm    | 15/18            | 15/18            | 15/18            |
| Net/Gross weight            |               | kg    | 6.35/9.52        | 6.35/9.52        | 6.35/12.7        |
| Piping data                 |               |       | DN25             | DN25             | DN25             |
| Liquid/Gas                  |               | mm    | 12-18            | 16-23            | 23-34            |
| Drainage pipe               |               | mm    | 0.6              | 0.84             | 1.27             |
| Application area            |               | m²    |                  |                  |                  |
| Dehumidification            |               | kg/h  |                  |                  |                  |



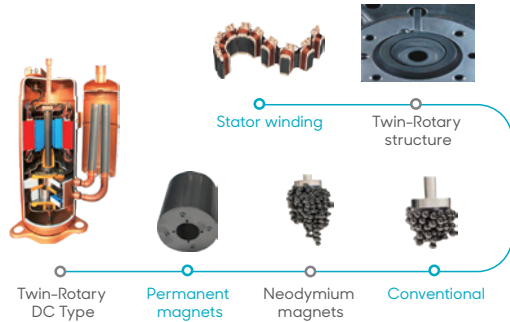
# • DC Inverter Mono LCAC Universal Outdoor Unit



## Features



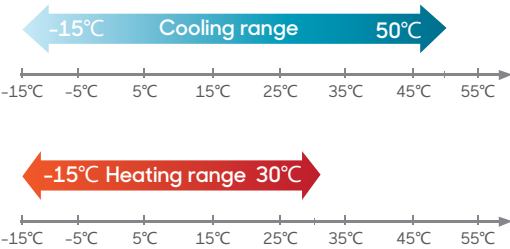
High efficiency rotary DC inverter compressor, system can operate in the best performance due to adjustable frequency.



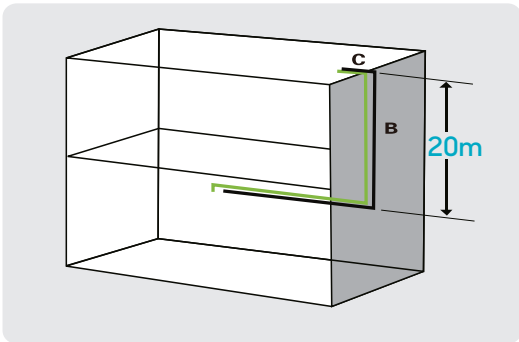
Brand-new outdoor unit design, external stop valve for easy installation and maintenance, there is also plastic cover to protect it from Environmental erosion and accidental damage.



Wide outdoor operation range ,realize running normally in the critical conditional.



Long piping design , for ≥10.5kw, the MAX pipe length is 50m ,and height difference is 20m.



## Specification

### R410a Heat Pump



| Outdoor unit              |                  | COU-V18HR1-AA01 | COU-V24HR1-A01 | COU-V36HR1-D01 | COU-V36HZR1-D01 | COU-V48HR1-D01 | COU-V48HZR1-D01 | COU-60HZVR1    |
|---------------------------|------------------|-----------------|----------------|----------------|-----------------|----------------|-----------------|----------------|
| Power supply              |                  | V/N/Hz          | 220-240/1/50   | 220-240/1/50   | 220-240/1/50    | 380~415/3/50   | 220-240/1/50    | 380~415/3/50   |
| Cooling capacity          | Btu/h            | 18000           | 24000          | 36000          | 36000           | 48000          | 48000           | 60000          |
|                           | kW               | 5.3             | 7.0            | 10.5           | 10.5            | 14.0           | 14.0            | 16.0           |
| Heating capacity          | Btu/h            | 18000           | 24000          | 36000          | 36000           | 48000          | 48000           | 60000          |
|                           | kW               | 5.3             | 7.0            | 10.5           | 10.5            | 14.0           | 14.0            | 17.6           |
| Physical data             |                  |                 |                |                |                 |                |                 |                |
| Compressor                |                  | DC/Rotary       | DC/Rotary      | DC/Twin-rotary | DC/Twin-rotary  | DC/Twin-rotary | DC/Twin-rotary  | DC/Twin-rotary |
| Outdoor noise level       |                  | ≤51             | ≤53            | ≤57            | ≤57             | ≤58            | ≤58             | ≤58            |
| Outdoor unit              | Net(WxHxD)       | mm              | 804×304×496    | 880×345×555    | 1032×445×807    | 1032×445×807   | 1032×445×807    | 907×400×1330   |
|                           | Packing(WxHxD)   | mm              | 850×350×550    | 915×380×605    | 1075×495×875    | 1075×495×875   | 1075×495×875    | 964×402×1445   |
|                           | Net/Gross weight | kg              | 30.6/27        | 36.7/34.2      | 64.5/60.5       | 64.5/60.5      | 70.5/66.5       | 70.6/67.3      |
| Refrigerant type/quantity |                  | g               | R410A/1200     | R410A/1600     | R410A/2300      | R410A/2300     | R410A/3250      | R410A/3250     |
| Refrigerant piping        | Liquid/Gas side  | mm              | Φ6.35/Φ12.7    | Φ9.52/Φ15.88   | Φ9.52/Φ15.88    | Φ9.52/Φ15.88   | Φ9.52/Φ15.88    | Φ9.52/Φ15.88   |
|                           | Max.pipe length  | m               | 15             | 20             | 50              | 50             | 50              | 50             |
|                           | Max.high drop    | m               | 8              | 10             | 20              | 20             | 20              | 20             |
| Ambient temp.             | Cooling          | °C              | -15~50         | -15~50         | -15~50          | -15~50         | -15~50          | -15~50         |
|                           | Heating          | °C              | -15~30         | -15~30         | -15~30          | -15~30         | -15~30          | -15~30         |

### Note

- 1.The cooling condition T1 condition: indoor side 27°C(80.6°F) DB, 19°C(60°F) WB, outdoor side 35°C(95°F) DB;
- 2.The heating condition: indoor side 20°C(68°F) DB, 15°C(44.6°F) WB, outdoor side 7°C(42.8°F) DB
- 3.Sound level: measured at a point 1m in front of the unit at a height of 1.3m. During actual operation, these values are normally somewhat higher as a result of ambient conditions.
- 4.The above data may be changed without notice for future improvement on quality and performance.

• Round flow cassette

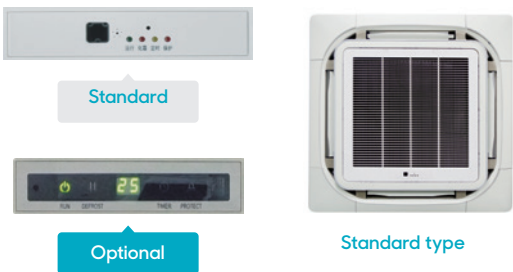
Controller



Features

New Panel

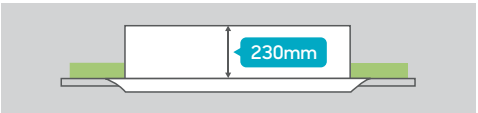
Simple, fealty and vogueish appearance suit for different requirements, it's mostly used for office, shopping center, restaurant, meeting room and etc.



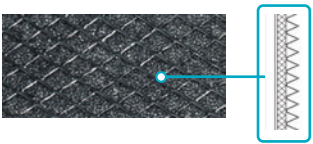
Add four interfaces in body, can be connected with duct to another room.



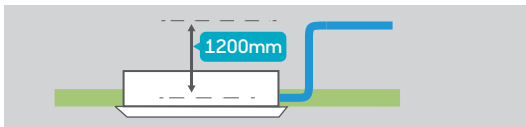
Ultra-thin body design, the min. Height is only 230mm save installation space.



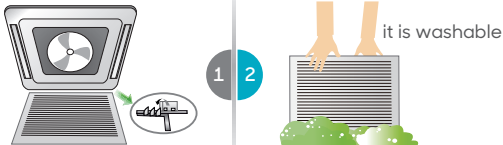
Cold catalyst filter for optional to absorb small particles to abjust Atmospheric Particulate Matter lower than PM2.5.



Built-in water pump, pump head up to 1200mm.



Easy and convenient installation and maintenance, washable filter design.



Specification

R410a Heat Pump



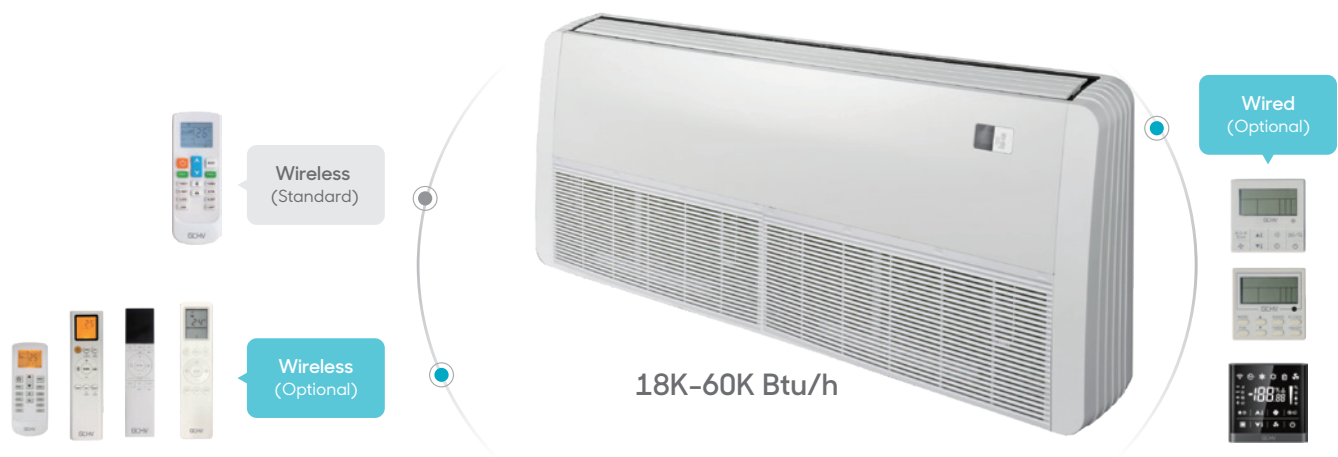
| Indoor unit                   |                  |           | CCR-V18HR1-Q303 | CCR-V24HR1-Q303 | CCR-V36HR1-Q305 | CCR-V48HR1-Q305 | CCR-V60HR1-Q305 |
|-------------------------------|------------------|-----------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Power supply                  |                  | V/N/Hz    | 220-240/1/50    | 220-240/1/50    | 220-240/1/50    | 220-240/1/50    | 220-240/1/50    |
| Cooling                       | Capacity         | kW        | 5.3             | 7               | 10.5            | 14              | 16              |
|                               |                  | Btu/h     | 18000           | 24000           | 36000           | 48000           | 60000           |
| Heating                       | Capacity         | kW        | 5.3             | 7               | 10.5            | 14              | 16              |
|                               |                  | Btu/h     | 18000           | 24000           | 36000           | 48000           | 60000           |
| Physical data                 |                  |           | ∨               | ∨               | ∨               | ∨               | ∨               |
| Indoor air flow               |                  | m³/h      | 1250            | 1250            | 1600            | 1900            | 1900            |
| Indoor noise level            |                  | dB(A)     | ≤58             | ≤63             | ≤63             | ≤65             | ≤65             |
| Indoor unit                   | Net(WxHxD)       | Body(mm)  | 840x230x840     | 840x230x840     | 840x285x840     | 840x285x840     | 840x285x840     |
|                               |                  | Panel(mm) | 950x50x950      | 950x50x950      | 950x50x950      | 950x50x950      | 950x50x950      |
|                               | Packing(WxHxD)   | Body(mm)  | 920x265x920     | 920x265x920     | 920x310x920     | 920x310x920     | 920x310x920     |
|                               |                  | Panel(mm) | 1030x105x1030   | 1030x105x1030   | 1030x105x 1030  | 1030x105x1030   | 1030x105x1030   |
|                               | Net/Gross weight | Body(kg)  | 25/30           | 25/30           | 29/33.5         | 30.5/36         | 30.5/36         |
|                               |                  | Panel(kg) | 6.5/9.5         | 6.5/9.5         | 6.5/9.5         | 6.5/9.5         | 6.5/9.5         |
| Refrigerant liquid/gas piping |                  | mm        | Φ6.35/Φ12.7     | Φ9.52/Φ15.88    | Φ9.52/Φ15.88    | Φ9.52/Φ15.88    | Φ9.52/Φ15.88    |
| Drainage pipe                 |                  | mm        | DN25            | DN25            | DN25            | DN25            | DN25            |

Note

- 1.The cooling condition T1 condition: indoor side 27°C(80.6°F) DB, 19°C(60°F) WB, outdoor side 35°C(95°F) DB;
- 2.The heating condition: indoor side 20°C(68°F) DB, 15°C(44.6°F) WB, outdoor side 7°C(42.8°F) DB
- 3.Sound level: measured at a point 1m in front of the unit at a height of 1.3m. During actual operation, these values are normally somewhat higher as a result of ambient conditions.
- 4.The above data may be changed without notice for future improvement on quality and performance.

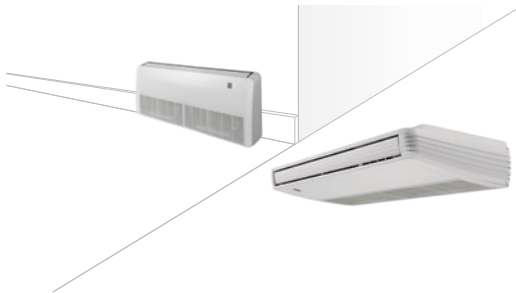
• Floor & Ceiling Unit

Controller

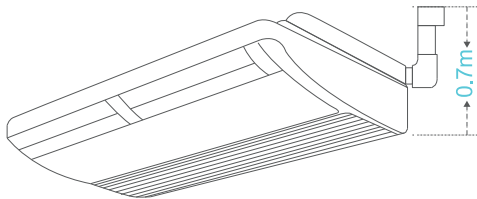


Features

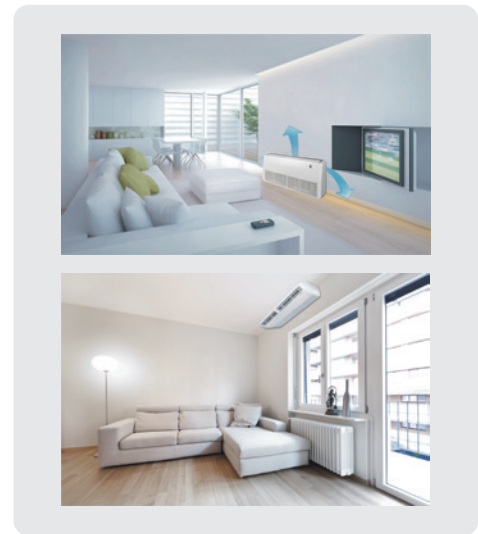
✂ Flexible installation, ceiling suspended and floor standing.



💧 Water pump is optional, the pumping head is up to 700mm.



🌀 Auto-swing function, built-in two louver motor, vertical and horizontal air-flow adjustment.



📺 LED display is optional on the right side. It is more intuitive and simple, and error code can be shown on the display.



🛠 New upper and lower buckle type wheel case, the upper wheel case can be removed alone, which is convenient adjust the wheel motor.



Specification

R410a Heat Pump



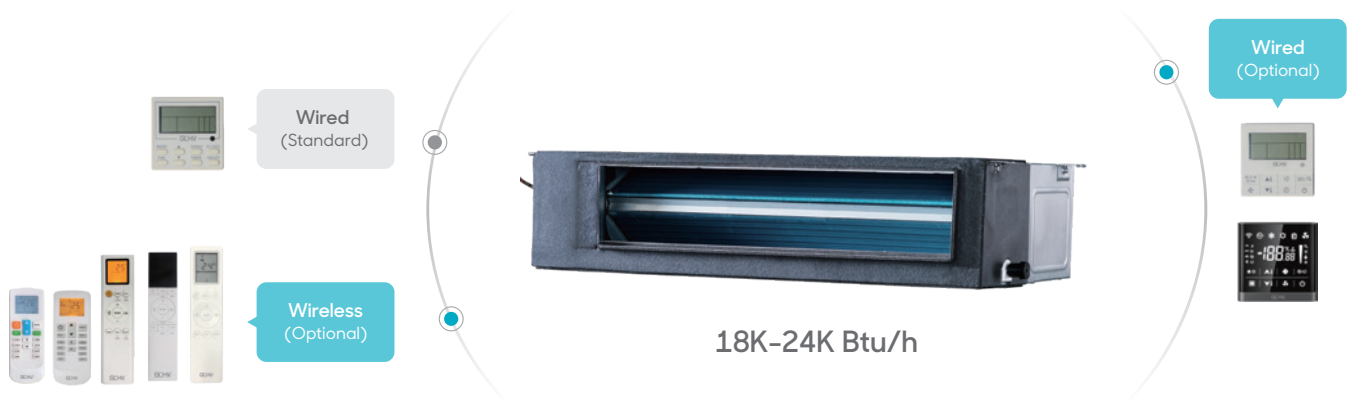
| Indoor unit                  |          |        | CUA-V18HR1-LDBA | CUA-V24HR1-LDBA | CUA-V36HR1-LDBB | CUA-V48HR1-LDBC | CUA-V60HR1-LDBC |
|------------------------------|----------|--------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Power supply                 |          | V/N/Hz | 220-240/1/50    | 220-240/1/50    | 220-240/1/50    | 220-240/1/50    | 220-240/1/50    |
| Capacity                     |          |        |                 |                 |                 |                 |                 |
| Cooling                      | Capacity | kW     | 5.3             | 7.0             | 10.5            | 14.0            | 16.0            |
|                              |          | Btu/h  | 18000           | 24000           | 36000           | 48000           | 60000           |
| Heating                      | Capacity | kW     | 5.3             | 7.0             | 10.5            | 14.0            | 16.0            |
|                              |          | Btu/h  | 18000           | 24000           | 36000           | 48000           | 60000           |
| Physical data                |          |        |                 |                 |                 |                 |                 |
| Indoor air flow(high speed)  |          | m³/h   | 1200            | 1200            | 1600            | 2100            | 2100            |
| Indoor noise level           |          | dB(A)  | 46~51           | 48~52           | 51~57           | 46~55           | 46~55           |
| Dimension(WxHxD)             |          | mm     | 1050×675×235    | 1050×675×235    | 1250×675×235    | 1670×675×235    | 1670×675×235    |
| Packing(WxHxD)               |          | mm     | 1130×765×330    | 1130×765×330    | 1380×765×325    | 1750×770×325    | 1750×770×325    |
| Net/Gross weight             |          | kg     | 26.5/31         | 26.5/31         | 32/37           | 40/46           | 40/46           |
| Piping data                  |          |        |                 |                 |                 |                 |                 |
| Refrigerant liquid/gasg side |          | mm     | Φ6.35/Φ12.7     | Φ9.52/Φ15.88    | Φ9.52/Φ15.88    | Φ9.52/Φ15.88    | Φ9.52/Φ15.88    |
| Drainage pipe                |          | mm     | DN25            | DN25            | DN25            | DN25            | DN25            |

Note

- 1.The cooling condition T1 condition: indoor side 27°C(80.6°F) DB, 19°C(60°F) WB, outdoor side 35°C(95°F) DB;
- 2.The heating condition: indoor side 20°C(68°F) DB, 15°C(44.6°F) WB, outdoor side 7°C(42.8°F) DB
- 3.Sound level: measured at a point 1m in front of the unit at a height of 1.3m. During actual operation, these values are normally somewhat higher as a result of ambient conditions.
- 4.The above data may be changed without notice for future improvement on quality and performance.

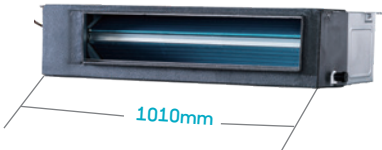
# • Low ESP Short Ducted Unit

Controller

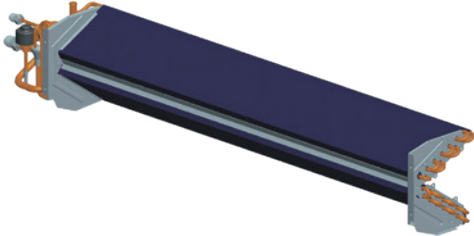


## Features

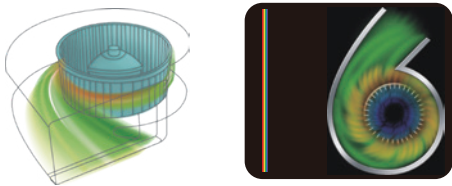
Short body, 1010mm length, easy to install, low noise and light weight, suitable for hotel room.



V shaped evaporator design, increasing the heating exchanger efficiency.



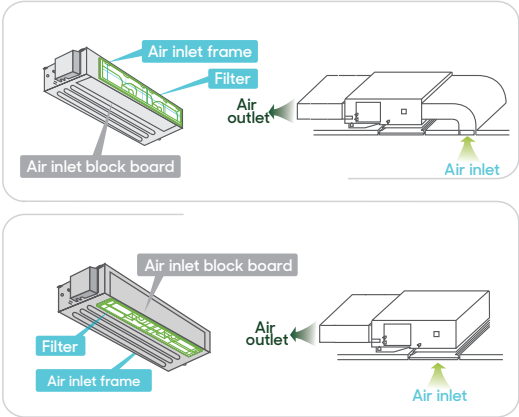
Adopting aviation centrifugal fan blade with special air tunnel design, as well as fan motor anti-vibration measure, benefit to increase air flow and decrease the noise.



Big air flow low noise centrifugal fan wheel

Big air flow low noise centrifugal fan blade with special air tunnel system, and the unique shock absorption measures, making this series ducted units' running noise is as low as 28 dB(A),let users to enjoy the comfort, sleep without any disturbance.

Air return method is optional by actual installation, from rear or from bottom.



Water pump is optional, pump head is up to 700mm.

## Specification

R410a Heat Pump 

| Model                            |                  |        | CTA-V18HR1-F102 |  | CTA-V24HR1-F103 |  |
|----------------------------------|------------------|--------|-----------------|--|-----------------|--|
| Indoor power supply              |                  | V/N/Hz | 220-240/1/50    |  | 220-240/1/50    |  |
| Performance                      |                  |        | ▼               |  | ▼               |  |
| Cooling                          | Capacity         | kW     | 5.3             |  | 7.0             |  |
|                                  |                  | Btu/h  | 18000           |  | 24000           |  |
| Heating                          | Capacity         | kW     | 5.3             |  | 7.0             |  |
|                                  |                  | Btu/h  | 18000           |  | 24000           |  |
| Physical data                    |                  |        | ▼               |  | ▼               |  |
| Indoor air flow(high speed)      |                  | m³/h   | 750             |  | 800             |  |
| Static pressure                  |                  | Pa     | 0-30            |  | 0-30            |  |
| Indoor noise level               |                  | dB(A)  | 28-38           |  | 29-39           |  |
| Indoor unit                      | Net(WxHxD)       | mm     | 1010x210x467    |  | 1279×210×467    |  |
|                                  | Packing(WxHxD)   | mm     | 1110x240x510    |  | 1310×240×510    |  |
|                                  | Net/Gross weight | kg     | 21.5/24.5       |  | 25/28           |  |
| Piping data                      |                  |        | ▼               |  | ▼               |  |
| Refrigerant liquid/gas side pipe |                  | mm     | Φ6.35/Φ12.7     |  | Φ9.52/Φ15.88    |  |
| Drainage pipe                    |                  | mm     | DN25            |  | DN25            |  |

Note

- 1.The cooling condition T1 condition: indoor side 27°C(80.6°F) DB, 19°C(60°F) WB, outdoor side 35°C(95°F) DB;
- 2.The heating condition: indoor side 20°C(68°F) DB, 15°C(44.6°F) WB, outdoor side 7°C(42.8°F) DB
- 3.Sound level: measured at a point 1m in front of the unit at a height of 1.3m. During actual operation, these values are normally somewhat higher as a result of ambient conditions.
- 4.The above data may be changed without notice for future improvement on quality and performance.

Low ESP Short Ducted Unit



• Medium ESP Ducted Unit

Controller

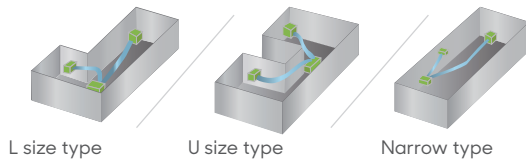


Features

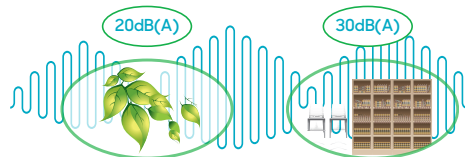
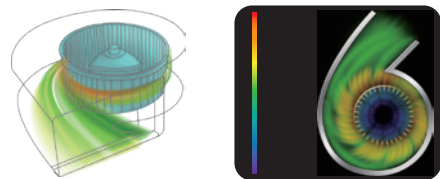
260mm ultra thin body, easy to install, low noise and light weight, suitable for hotel room.



50Pa ESP design for medium static pressure duct, duct connected installation meet for different room structure (can be customized to 70Pa ESP).

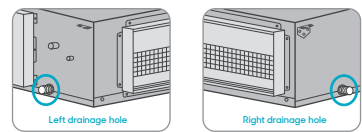


Adopting aviation centrifugal fan blade with special air tunnel design, as well as fan motor anti-vibration measure, benefit to increase air flow and decrease the noise.

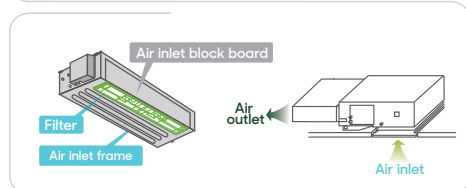
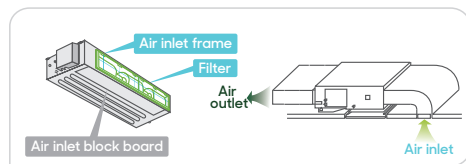


Convenient in drainage pipe installation

Reserved drainage pipe outlet holes on left side and right side, installer can choose the outlet holes on site as per actual conditions, flexible for drainage pipe installation.



Air return method is optional by actual installation, from rear or from bottom.



Body-side is E-box, convenient installation and maintenance.



Specification

R410a Heat Pump



| Model                            |                  |        | CTB-V36HR1-F203 | CTB-V48HR1-F205 | CTB-60HVR1   |
|----------------------------------|------------------|--------|-----------------|-----------------|--------------|
| Indoor power supply              |                  | V/N/Hz | 220~240/1/50    | 220~240/1/50    | 220~240/1/50 |
| Performance                      |                  |        | ▽               | ▽               | ▽            |
| Cooling                          | Capacity         | kW     | 10.5            | 14.0            | 16.0         |
|                                  |                  | Btu/h  | 180             | 340             | 340          |
| Heating                          | Capacity         | kW     | 10.5            | 14.0            | 17.6         |
|                                  |                  | Btu/h  | 180             | 340             | 340          |
| Physical data                    |                  |        | ▽               | ▽               | ▽            |
| Indoor air flow(high speed)      |                  | m³/h   | 1300            | 1900            | 2000         |
| Static pressure                  |                  | Pa     | 50-70           | 50-70           | 50-70        |
| Indoor noise level               |                  | dB(A)  | 33-42           | 40-52           | 40-52        |
| Indoor unit                      | Net(WxHxD)       | mm     | 1190×260×643    | 1425x260x643    | 1425x260x643 |
|                                  | Packing(WxHxD)   | mm     | 1255×325×720    | 1490x325x720    | 1490x325x720 |
|                                  | Net/Gross weight | kg     | 32/37           | 45/51           | 45/51        |
| Piping data                      |                  | Pa     | ▽               | ▽               | ▽            |
| Refrigerant liquid/gas side pipe |                  | mm     | Φ9.52/Φ15.88    | Φ9.52/Φ15.88    | Φ9.52/Φ15.88 |
| Drainage pipe                    |                  | mm     | DN25            | DN25            | DN25         |

Note

- 1.The cooling condition T1 condition: indoor side 27°C(80.6°F) DB, 19°C(60°F) WB, outdoor side 35°C(95°F) DB;
- 2.The heating condition: indoor side 20°C(68°F) DB, 15°C(44.6°F) WB, outdoor side 7°C(42.8°F) DB
- 3.Sound level: measured at a point 1m in front of the unit at a height of 1.3m. During actual operation, these values are normally somewhat higher as a result of ambient conditions.
- 4.The above data may be changed without notice for future improvement on quality and performance.

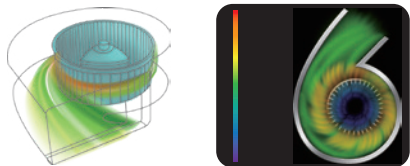
• High ESP Ducted Type Unit

Controller

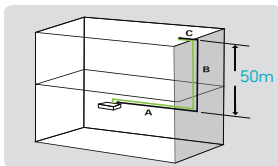


Features

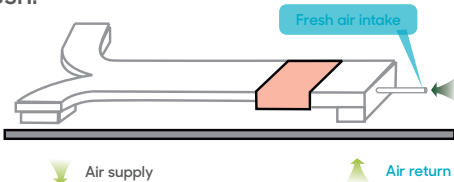
Centrifugal fan, low noise and big airflow.



Max. refrigerant pipe length is 50m, Max. Difference in height is 20m.



Install a duct to outside in the air return side, realize the fresh air intake and keep room air fresh.



150Pa ESP is standard, it is suitable for long distance air supply and flexible air duct installation. Specially for different irregular size room.

Specification

R410A Heat Pump



| Model                            |                  |        | CTH-V48HR1-F305 |  | CTH-60HVR1      |  |
|----------------------------------|------------------|--------|-----------------|--|-----------------|--|
| Indoor power supply              |                  | V/N/Hz | 220~240/1/50    |  | 220~240/1/50    |  |
| Performance                      |                  |        | ▽               |  | ▽               |  |
| Cooling                          | Capacity         | kW     | 14.0            |  | 16.0            |  |
|                                  |                  | Btu/h  | 48000           |  | 60000           |  |
| Heating                          | Capacity         | kW     | 14.0            |  | 17.6            |  |
|                                  |                  | Btu/h  | 48000           |  | 60000           |  |
| Physical data                    |                  |        | ▽               |  | ▽               |  |
| Indoor air flow(high speed)      |                  | m3/h   | 2300            |  | 2300            |  |
| Static pressure                  |                  | Pa     | 150             |  | 150             |  |
| Indoor noise level               |                  | dB(A)  | 44-52           |  | 44-52           |  |
| Indoor unit                      | Net(WxHxD)       | mm     | 1175x370x621    |  | 1175x370x621    |  |
|                                  | Packing(WxHxD)   | mm     | 1245x445x655    |  | 1245x445x655    |  |
|                                  | Net/Gross weight | kg     | 47/51           |  | 47/51           |  |
| Piping data                      |                  |        | ▽               |  | ▽               |  |
| Refrigerant liquid/gas side pipe |                  | mm     | Φ 9.52/ Φ 15.88 |  | Φ 9.52/ Φ 15.88 |  |
| Drainage pipe                    |                  | mm     | DN25            |  | DN25            |  |

• Controller



Wireless controller

- Wireless 8m transmission
- 5 Operation modes: Auto, Cooling, Dehumidification, Heating, Fan
- Timer ON/OFF setting up to 24Hr
- Temperature control range 16-32°C
- Three fan speed selection
- Sleep mode function

Wired controller

- LCD display
- 5/8/10 m wire length
- 5 Operation modes: Auto, Cool, Dehumidification, Heat, Fan
- Timer ON/OFF setting up to 24Hr
- Temperature control range 16-32°C
- Three fan speed selection
- Touch screen wire controller can realize WiFi function



5-core LCAC centralized board



3-core LCAC centralized board

Central controller

- Additional PCB installed in indoor part for optional, which can realize remote ON/OFF and group control. One group controller can connect max 64 systems.



CSP-D184-01P



CSP-D181-01P



CSP-D182-01P