

# GIWEE

## 50Hz/60Hz Inverter LCAC Product Catalogue



### Giwee Company

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Note: The specifications of this catalogue may change for further improvement on quality and performance without prior notice to allow us to incorporate the latest innovations for its customers. The information contained in this catalogue is merely informative.

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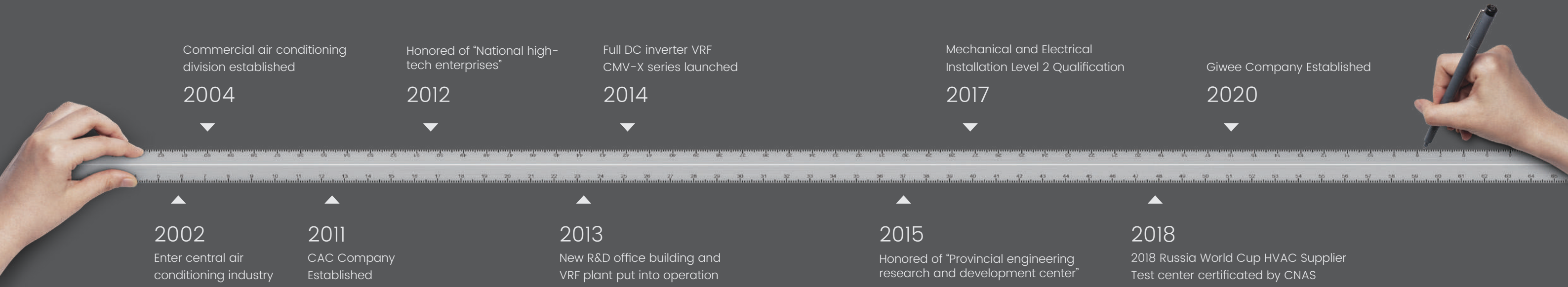




## About Giwee Company

Giwee is a global supplier with integrated advantages in R&D, production and sales in the HVAC field, brand name is GCHV. Giwee has been deeply involved in the air-conditioning field for more than ten years with a rich product lineup and excellent market competitiveness, mainly engaged in RAC, CAC, heat pump and ventilation systems.

Giwee covers an area of 167,000 square meters, with more than 120,000 square meters of plants and 17 modern first class production lines. Annual output exceeds 2.5 million sets, includes VRF, modular chiller, light commercial air conditioners, air source heat pumps and other products, products are in great demand on 100 more countries and regions and has accomplished thousands of reference projects worldwide.







## Production Capacity

Giwee has 17 advanced production lines and an annual production capacity of over 2.5 million sets. Introduce lean production management, improve production efficiency. By the use of various robots, AGV system and other equipment, improving the online, offline process, optimizing the logistics distribution technology, improving product quality and production efficiency. Adopts MES system, it helps a lot in tracking production schedule, inventory status, work schedule and other operations management to improve product quality and productivity.

Robotic Assembly Arm



Automatic Packing Robot



AGV System



MES System



## Quality Superiority

Giwee has established a strict and scientific quality management system with supplier quality assurance, incoming quality control, process quality control and final quality control to ensure the highest quality of the products.

The industry-leading testing center has been certified by CNAS in 2018. With a full range of professional incoming inspection labs, enthalpy difference labs, EMC labs, 27 national accredited labs for testing and verification.



## Certification

ISO9001 quality management system, ISO14001 environmental management system, OHSAS18001 occupational health and safety management system, QC080000 electronic and electrical components and products harmful substances process management system certification.

Main product certificated by CCC, energy-saving certification, ETL, AHRI, DOE, CE, CB, SASO, ESMA, MEW and others.



ISO9001

ISO14001

ISO45001

QC 080000

AEO





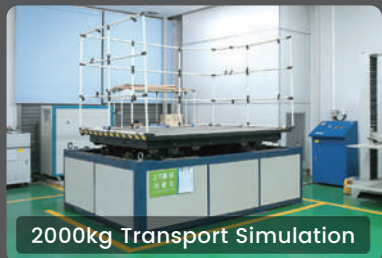


Enthalpy Difference Lab



Laboratory Control Room

## R&D Strength



2000kg Transport Simulation



Professional Engineers



EMC Lab



Noise Test Lab



200HP Long-term Running Lab



Modular Chiller Test Lab



Electromagnetic Vibration Lab






















The R&D center of Giwee has more than 200 technical engineers, carry out technology collaboration and joint research with postdoctoral research workstations and Guangdong enterprise workstations, at the same time, introducing senior technical experts from Japan to join Giwee and served as senior technical consultants, Giwee pay great attention in R&D and invest 4.5% of annual income every year to develop new technology, by the continuous innovation, Giwee has established a solid development foundation and strength in performance, structure, electronic control, industrial design and other professional aspects.






















The test center covers an area of more than 6,000 square meters. It has a series of industry-leading professional laboratories. In 2010, it passed the consistency check of the National Energy Efficiency Label Management Center and obtained certificate, in 2018, the test center obtained CNAS national certification.

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# Contents

Product line	Type	Product	7k 1N	9k 1N	12k 1N	14k 1N	18k 1N	21k 1N	24k 1N	27k 1N
<b>ERP R32 units</b> Full DC inverter heat pump	Wall mounted unit		●	●	●		●	●		
	Compact cassette		●	●	●		●			
	Round flow cassette						●		●	
	Console			●	●		●			
	Floor-ceiling						●		●	
	Low ESP ducted		●	●	●		●		●	
	Medium ESP ducted									
	Constant air flow ducted								●	
	Mono outdoor unit						●		●	
	Multi split outdoor unit					●	●	●		●
<b>R32 units</b> DC inverter heat pump	Round flow cassette									
	Floor-ceiling									
	Medium ESP ducted									
	High ESP ducted									
	Outdoor unit									
<b>R410A units</b> DC inverter heat pump	Round flow cassette						●		●	
	Floor-ceiling						●		●	
	Low ESP ducted						●		●	
	Medium ESP ducted									
	High ESP ducted									
	Outdoor unit						●		●	

Product line	Type	Product	28k 1N	36k 1N	36k 3N	42k 1N	48k 1N	48k 3N	55k 3N	60k 3N
<b>ERP R32 units</b> Full DC inverter heat pump	Wall mounted unit									
	Compact cassette									
	Round flow cassette			●	●		●	●	●	
	Console									
	Floor-ceiling			●	●		●	●	●	
	Low ESP ducted									
	Medium ESP ducted			●	●		●	●	●	
	Constant air flow ducted			●	●		●	●	●	
	Mono outdoor unit			●	●		●	●	●	
	Multi split outdoor unit		●	●		●				
	<b>R32 units</b> DC inverter heat pump	Round flow cassette							●	●
Floor-ceiling								●	●	
Medium ESP ducted								●	●	
High ESP ducted								●	●	
Outdoor unit								●	●	
<b>R410A units</b> DC inverter heat pump	Round flow cassette			●	●		●	●		●
	Floor-ceiling			●	●		●	●		●
	Low ESP ducted									
	Medium ESP ducted			●	●		●	●		●
	High ESP ducted						●	●		●
	Outdoor unit			●	●		●	●		●

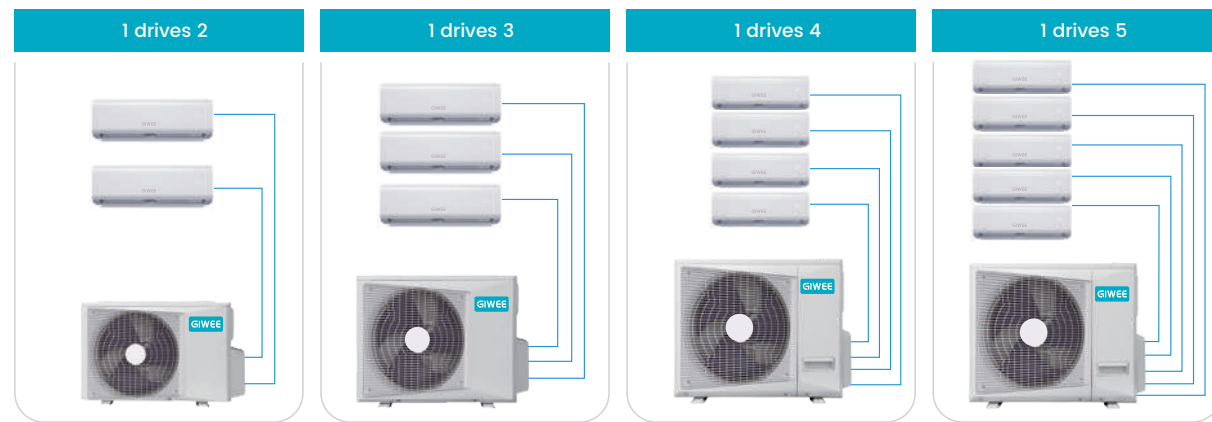
# DC Inverter Multi Split Unit



## Features

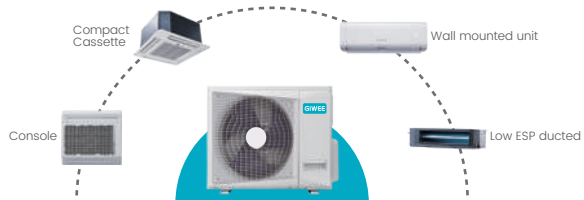
### Matching mode

Multiple indoor units can be connected to 1 outdoor unit, which is friendly to small apartment and save installation space.

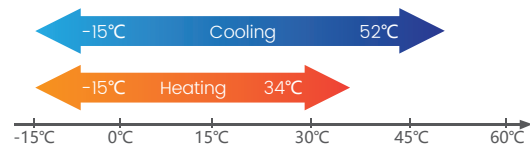


### Various indoor units

Connecting different types of indoor units to meet different needs.

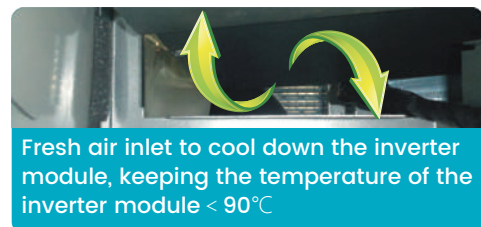


### Wide operation range



### New design E-box

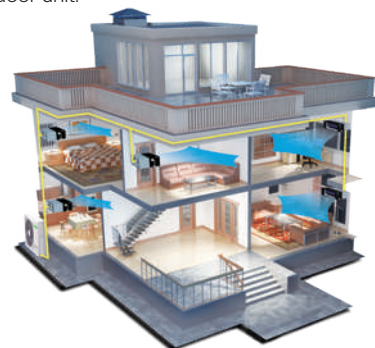
New design allows fresh air flow by to cool down the inverter module, ensuring stable operation.



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

### Flexible installation

The total max. pipe length is up to 75m and max. height difference is up to 10m, which allows to choose a best place to install the outdoor unit.



## Specification

### R32 Multi Split Outdoor Unit



Model	C2OU-D14HR4-A01	C2OU-D18HR4-A01	C3OU-D21HR4-C01	C3OU-D27HR4-C01	C4OU-D28HR4-D01	C4OU-D36HR4-D01	C5OU-D42HR4-D01	
Power supply	V/N/Hz 220-240/1/50							
<b>Capacity</b>								
Cooling	Capacity	7000-14000	7000-18000	7000-21000	7000-27000	7000-28000	7000-36000	7000-42000
	Input	1280	1650	1930	2472	2520	3400	3900
	Rated current	5.9	7.3	8.8	11.3	11.5	15.6	18.0
	EER	3.20	3.21	3.21	3.20	3.25	3.09	3.15
Heating	Capacity	8000-16000	8000-20000	8000-24000	8000-30000	8000-30000	8000-38000	8000-44000
	Input	1350	1730	2150	2600	2450	3080	3650
	Rated current	6.4	7.9	9.8	11.8	11.2	14.1	16.7
	COP	3.48	3.41	3.26	3.38	3.59	3.60	3.53
MAX	Current	11.4	13.2	14.2	17.2	19	27	28
Input	2300	2500	2880	3500	3600	4900	5100	
<b>Physical data</b>								
Outdoor air flow(High speed)	m³/h 2300							
Sound pressure noise level	dB(A) 55							
Sound power noise level	dB(A) 65							
Net dimension(W×H×D)	mm 880×555×345							
Packing dimension(W×H×D)	mm 920×600×380							
Net/Gross weight	kg 32.4/35.1							
Refrigerant type and quantity	g R32/1100							
<b>Piping data</b>								
Liquid side/Gas side	mm 2×(6.35/9.52)							
Max. pipe length (total)	m 30							
Max. height difference(ODU below)	m 10							
Ambient temperatureCooling	°C -15-52							
Heating	°C -15-34							
Application area	m² 2×(10-15)							

### 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.

### 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					
<b>Capacity</b>						
Cooling	Capacity	7000	9000	12000	18000	24000
	Input	35	35	45	55	65
	Rated current	0.3	0.3	0.4	0.5	0.6
Heating	Capacity	8000	10000	13000	19000	25000
	Input	35	35	45	55	65
	Rated current	0.3	0.3	0.4	0.5	0.6
<b>Physical data</b>						
Indoor air flow	m³/h 450					
Indoor noise level(Hi/Mi/Lo)	dB(A) 30/27/24					
Sound power noise level(Hi)	dB(A) 50					
Net dimension(W×H×D)	mm 715x295x198					
packing dimension(W×H×D)	mm 785x370x285					
Net/Gross weight	kg 8.5/10.5					
<b>Piping data</b>						
Liquid/Gas	mm 6.35/9.52					
Drainage pipe	mm DN17					
Application area	m² 10-15					

## Specification

### 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
<b>Capacity</b>						
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
<b>Physical data</b>						
Indoor air flow (Hi/Mi/Lo)	m <sup>3</sup> /h		540/490/410	540/490/410	560/500/420	650/580/500
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		755x375x680	755x375x680	755x375x680	755x375x680
Net/Gross weight	kg		16.5/21.5	16.5/21.5	16.5/21.5	16.5/21.5
<b>Piping data</b>						
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	m <sup>2</sup>		10-15	12-18	16-23	23-34

### 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
<b>Capacity</b>						
Cooling	Capacity	Btu/h	7000	9000	12000	18000
	Input	W	20	20	30	55
	Rated current	A	0.1	0.1	0.15	0.2
Heating	Capacity	Btu/h	8000	10000	13000	19000
	Input	W	20	20	30	55
	Rated current	A	0.1	0.1	0.15	0.2
<b>Physical data</b>						
Indoor air flow (Hi/Mi/Lo)	m <sup>3</sup> /h		550/410/340	550/410/340	550/410/340	800/700/600
Indoor noise level (Hi/Mi/Lo)	dB(A)		36/32/29	36/32/29	36/32/29	45/40/36
Sound power noise level (Hi)	dB(A)		47	47	47	58
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	22.5/26
<b>Piping data</b>						
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	m <sup>2</sup>		10-15	12-18	16-23	23-34

## Specification

### R32 Console



Console IDU			CZA-D09HR4-ZA	CZA-D12HR4-ZA	CZA-D18HR4-ZA
Power supply		V/N/Hz	220-240/1/50	220-240/1/50	220-240/1/50
<b>Capacity</b>					
Cooling	Capacity	Btu/h	9000	12000	18000
	Input	W	40	40	45
	Rated current	A	0.20	0.20	0.22
Heating	Capacity	Btu/h	10000	13000	19000
	Input	W	40	40	45
	Rated current	A	0.20	0.20	0.22
<b>Physical data</b>					
Indoor air flow (Hi/Mi/Lo)	m <sup>3</sup> /h		520/480/420	560/520/480	610/560/520
Indoor noise level (Hi/Mi/Lo)	dB(A)		39/37/35	41/39/37	43/41/39
Sound power noise level (Hi/Mi/Lo)	dB(A)		50/48/46	52/50/48	54/52/50
Net dimension (WxHxD)	mm		700x630x215	700x630x215	700x630x215
packing dimension (WxHxD)	mm		790x700x275	790x700x275	790x700x275
Net/Gross weight	kg		15/18	15/18	15/18
<b>Piping data</b>					
Liquid/Gas	mm		6.35/9.52	6.35/9.52	6.35/12.7
Drainage pipe	mm		DN25	DN25	DN25
Application area	m <sup>2</sup>		12-18	16-23	23-34
Dehumidification	kg/h		0.6	0.84	1.27

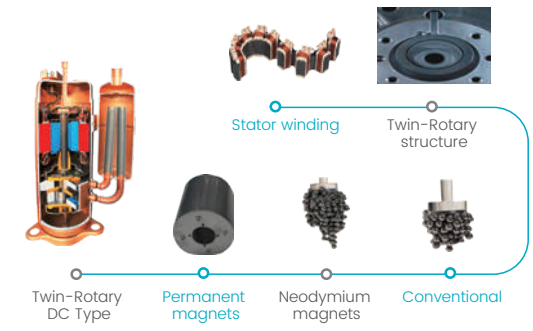


# DC Inverter Mono LCAC ERP Outdoor unit



## Features

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

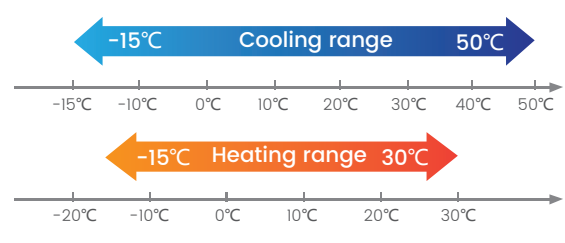


**High energy efficiency**  
Energy saving and excellent efficiency. Reaching European A++ and A+ class energy label, meets the EU's new energy efficiency requirement, comply with ErP directive.

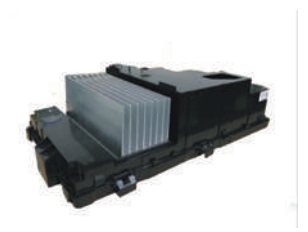
**New integrated PCB**  
New integrated PCB has big contribution to AC fast reply and simple service. Fin type heat sink and refrigerant cooling gives PCB a cool working condition.



**Wide outdoor operation range**



**New electric control box**  
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 (for 18K unit).



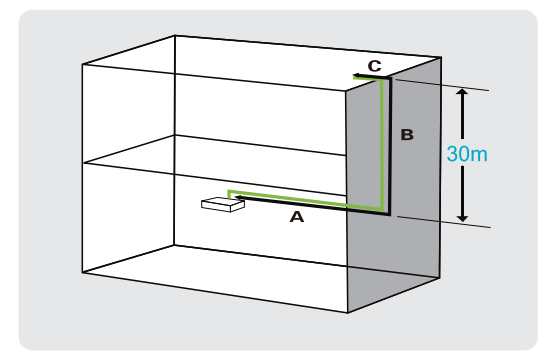
## Specification

R32 Heat Pump

Model	COU-D18HR4-A01	COU-D24HR4-C01	COU-D36HR4-D01	COU-D36HR4-D01	COU-48HR4	COU-48HZDR4	COU-55HZDR4
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
<b>Performance</b>							
Cooling Capacity	Btu/h	18000	24000	36000	36000	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
Heating Capacity	Btu/h	18000	26000	39000	39000	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
Max.power input	W	3680	4000	4900	4900	6100	6600
Max.current input	A	16.0	18.0	24.0	9.50	29.5	13.5
<b>Physical data</b>							
Compressor		DC/Single-rotary	DC/Twin-rotary	DC/Twin-rotary	DC/Twin-rotary	DC/Twin-rotary	DC/Twin-rotary
Fan motor		DC	DC	DC	DC	DC	DC
Outdoor noise level	Power level	64	68	69	69	68	68
	Pressure level	54	54	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
	Packing (WxHxD)	920×600×380	975×770×435	1075×875×495	1075×875×495	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
Refrigerant type/quantity	g	R32/1200	R32/1450	R32/2400	R32/2400	R32/3800	R32/4200
<b>Piping data</b>							
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
	Max. pipe length	15(30)	20(50)	50(65)	50(65)	50(65)	50(65)
	Max. high drop	8(20)	10(25)	20(30)	20(30)	20(30)	20(30)
Ambient temp	cooling	-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

**Note**  
1.The cooling condition TI 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.

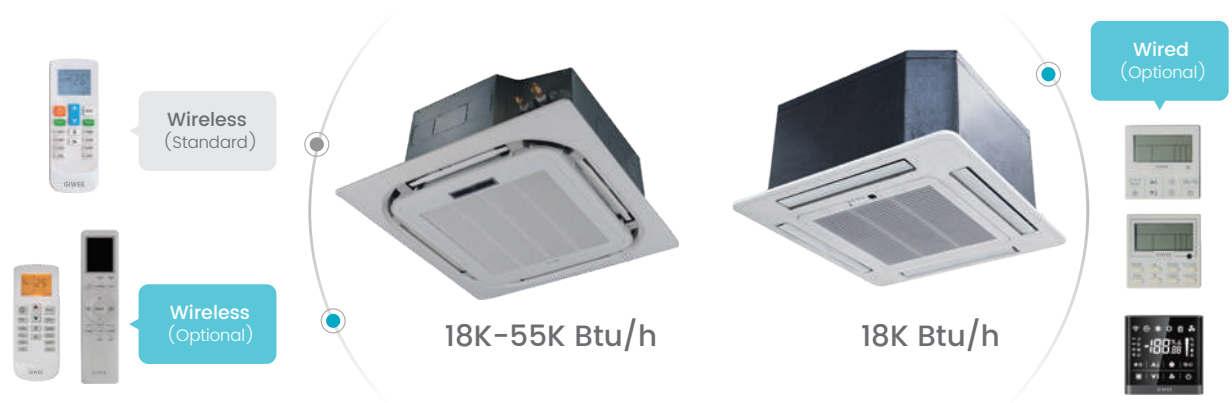
**Refrigerant piping**  
Long piping design, for 36K-55K Btu/h, the MAX pipe length is 65m, and height difference is 30m, which allows to choose a best place to install the outdoor unit.





# Cassette Unit

## Controller



## Features

### Display panel

LED display is standard and Digital tube display is optional for round flow cassette.



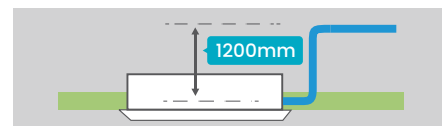
### 3D spiral fan blade

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



### Built-in water pump

Built-in water pump and the water head is up to 1200mm. (For compact cassette, the water head is 700mm.)



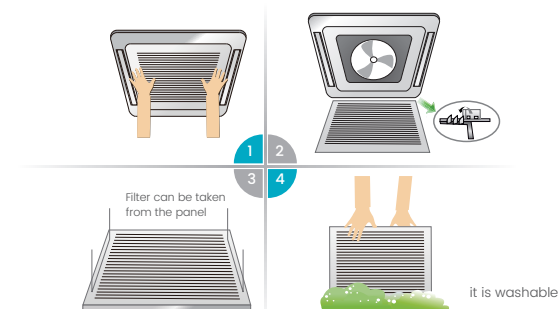
### I-FEEL function

A temperature sensor is built in wired controller, after setting, it could detect room temperature. Compared to the temperature detected by the sensor at the cassette, this temperature is closer to the temperature felt by the human body, so the temperature adjustment will be better and users feel more comfortable.



### Washable filter

Washable filter, convenient for installation and maintenance.



## Specification

### R32 Heat Pump



Model	CCB-D18HR4-Q402	CCR-D18HR4-Q303	CCR-D24HR4-Q303	CCR-D36HR4-Q305	CCR-48HVR4	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
<b>Performance</b>							
Cooling Capacity	2.0-5.3-5.6		2.9-7.0-8.0		7.0-14.0-15.5		7.5-16.0-17.0
SEER	5.6		6.1		6.1		6.1
Heating Capacity	2.2-5.3-5.8		3.3-7.7-8.5		8.0-15.2-16.0		8.5-16.8-17.5
SCOP	4.0		4.0		4.0		4.0
Cooling energy efficiency class	A+		A++		A++		A++
Heating energy efficiency class	A+		A+		A+		A+
Indoor airflow(Hi/Lo/Med)	650/580/500		900/800/650		1100/900/800		1800/1700/1550
<b>Physical data</b>							
Power noise level	46-55		46-58		56-63		53-61
Pressure noise level	36-43		36-45		43-49		43-48
Net dimension (WxHxD)	Body	580x267x580		840x230x840		840x285x840	
	Panel	650x29.8x650		950x50x950		950x50x950	
Packing (WxHxD)	Body	745x375x675		920x265x920		920x310x920	
	Panel	1030x100x1030		1030x100x1030		1030x100x1030	
Panel Net/Gross weight	Body	16.5/21.5		25/30		30.5/36	
	Panel	2.7/4.0		6.5/9.5		6.5/9.5	
<b>Piping data</b>							
Liquid /Gas side	Φ6.35/Φ12.7		Φ6.35/Φ12.7		Φ9.52/Φ15.88		Φ9.52/Φ15.88
Drain pipe	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

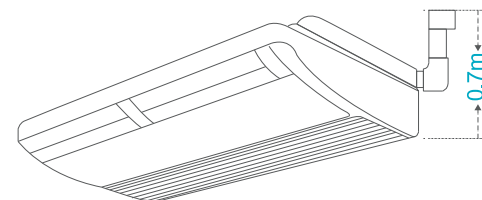
### Flexible installation

Flexible installation, you can choose ceiling suspended and floor standing installation style according to actual project requirements.



### Water pump

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



### 2 types of Grills available

Two types of grills are available, horizontal stripes and vertical stripes.



### Display panel

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



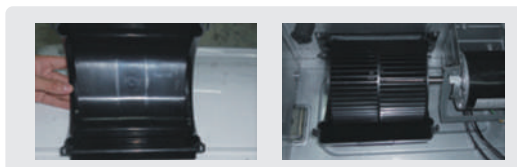
### 3D airflow

Auto-swing function, built-in 3 louver motors, realize vertical and horizontal air-flow adjustment.



### Easy maintenance

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



## Specification

### R32 Heat Pump

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	
<b>Performance</b>						
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 efficiency class		A++	A++	A++	A++	A++
Heating energy efficiency class		A+	A+	A+	A+	A+
Indoor airflow (Hi/Lo/Med)	m <sup>3</sup> /h	1200	1200	1800	2000	2000
<b>Physical data</b>						
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	1300×675×235	1670×675×235	1670×675×235
Packing (WxHxD)		1130×765×330	1130×765×330	1380×765×325	1750×770×325	1750×770×325
Net/Gross weight		26.5/31	26.5/31	31.3/36.2	43/48	43/48
<b>Piping data</b>						
Diameter	Liquid/Gas side	mm	Φ6.35/Φ12.7	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.



# Ducted Unit

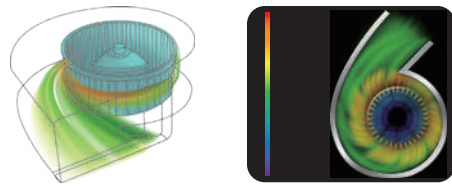
## Controller



## Features

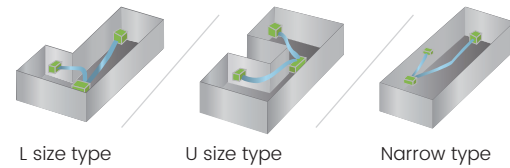
### Centrifugal fan blade

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.



### Wide application

High ESP design for medium static pressure duct, duct connected installation type makes it could meet the various requirements for different room structure.



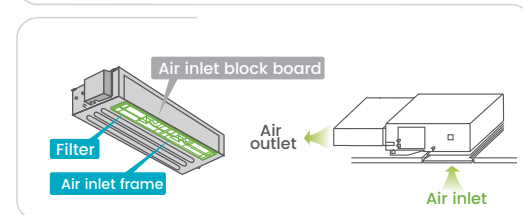
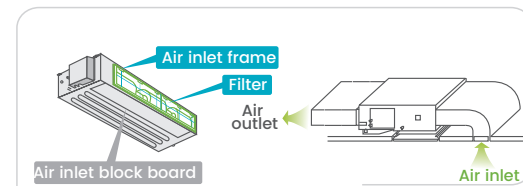
### DC motor

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



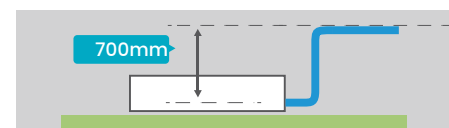
### Flexible installation

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



### Optional water pump

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



## Specification

### R32 Low ESP Ducted Unit Heat Pump



Model		CTA-D18HR4-F102	CTA-D24HR4-F103
Indoor power supply	V/N/Hz	220-240V/1/50	220-240V/1/50
<b>Performance</b>			
Cooling	Capacity	2.0-5.3-5.6	2.9-7.0-8.0
	SEER	6.1	6.1
Cooling energy efficiency class		A++	A++
Heating	Capacity	2.2-5.3-5.8	3.3-7.7-8.5
	SCOP	4.0	4.0
Heating energy efficiency class		A+	A+
<b>Physical data</b>			
Airflow	m <sup>3</sup> /h	800/700/600	1050/950/750
Static pressure	Pa	30	30
Static pressure range	Pa	0-60	0-100
Noise level (MAX)	Power level	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	1310×240×510
Gross weight	kg	26	28
<b>Piping data</b>			
Diameter	Liquid side	Φ6.35	Φ9.52
	Gas side	Φ12.7	Φ15.88
Drain pipe	mm	DN25	DN25

### R32 Medium ESP Ducted Unit 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
<b>Performance</b>					
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 efficiency class		A++	A++	A++	A++
Heating energy efficiency class		A+	A+	A+	A+
Indoor airflow (Hi/Lo/Med)	m <sup>3</sup> /h	1800/1690/1130	2500/2350/1980	2500/2350/1980	2500/2350/1980
<b>Physical data</b>					
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
<b>Piping data</b>					
Diameter	Liquid side/Gas side	Φ9.52/Φ15.88	Φ9.52/Φ15.88	Φ9.52/Φ15.88	Φ9.52/Φ15.88
	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.

# Constant Air Flow Ducted Unit

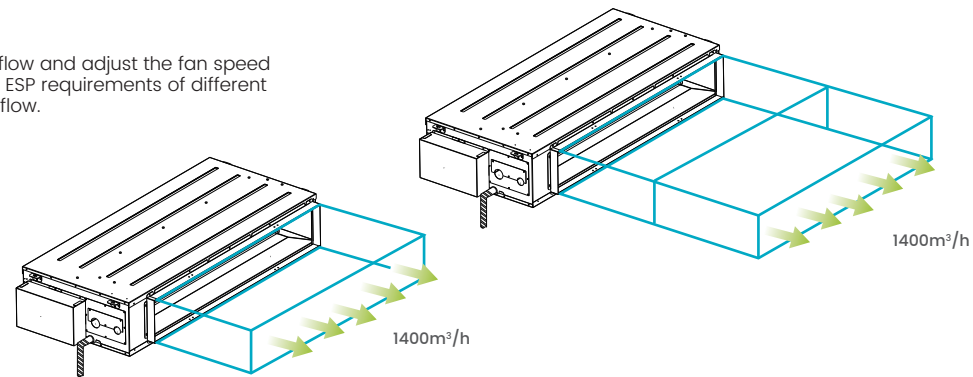
## Controller



## Features

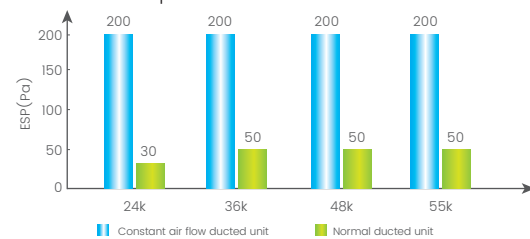
### Constant air flow

The unit will detect required air flow and adjust the fan speed automatically, to meet different ESP requirements of different duct length and keep same air flow.



### High ESP

The max. static pressure is up to 200Pa and keep same air flow volume at high ESP, to meet different installation requirements.



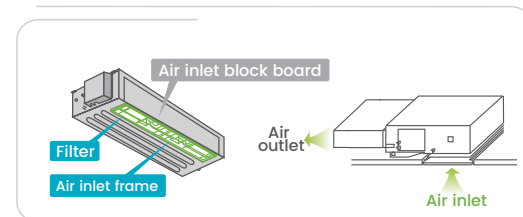
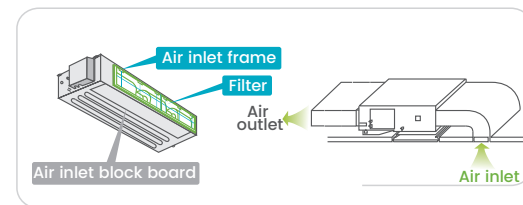
### DC motor

Standard with brushless DC fan motor. Fan speed is regulated steplessly by PCB according to motor running current, so the air flow could keep same while guarantee the lower noise and better comfort for any space.



### Flexible installation

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



## Specification

### Constant Air Flow Ducted Unit Heat Pump

Model	CTB-D24HR4-F203	CTB-D36HR4-F2051	CTB-D48HR4-FS04	CTB-D55HR4-FS04		
Outdoor power supply	V/N/Hz	220-240/1/50	220-240/1/50	220-240/1/50		
<b>Performance</b>						
Cooling Capacity	kW	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	
Heating Capacity	kW	3.3-7.7-8.5	4.4-11.5-13.2	8.0-15.2-16.0	8.5-16.8-17.5	
SCOP	W/W	4.0	4.0	4.0	4.0	
Cooling energy efficiency class		A++	A++	A++	A++	
Heating energy efficiency class		A+	A+	A+	A+	
Indoor airflow (Hi/Lo/Med)	m <sup>3</sup> /h	1400/1200/1000	1950/1650/1350	2400/2040/1680	2400/2040/1680	
<b>Physical data</b>						
Power noise level	dB(A)	42-63	45-63	56-64	56-64	
Pressure noise level	dB(A)	31-52	34-52	45-53	45-53	
Rated static pressure	Pa	30	50	50	50	
Static pressure range	Pa	0-200	0-200	0-200	0-200	
Net dimension (WxHxD)	mm	1190x260x643	1425x260x643	1279x307x830	1279x307x830	
Packing (WxHxD)	mm	1255x325x720	1490x325x720	1420x380x945	1420x380x945	
Panel Net/Gross weight	kg	31.8/36.3	38.0/43.0	49.0/56.0	49.0/56.0	
<b>Piping data</b>						
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

- 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;
  - The heating condition: indoor side 20°C (68°F) DB, 15°C (44.6°F) WB, outdoor side 7°C (42.8°F) DB
  - 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.
  - 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.





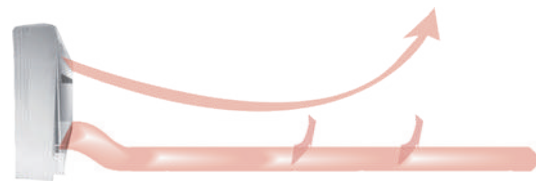


Console

## Features

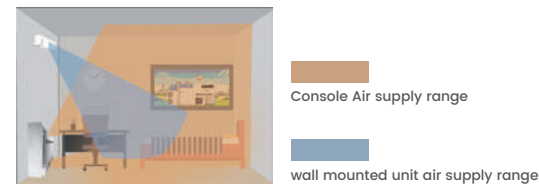
### Carpet style heating

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.

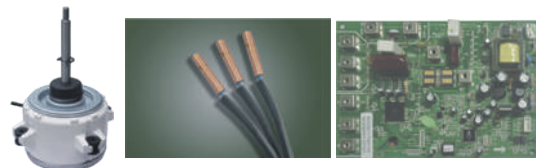


### High efficiency and low noise

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.



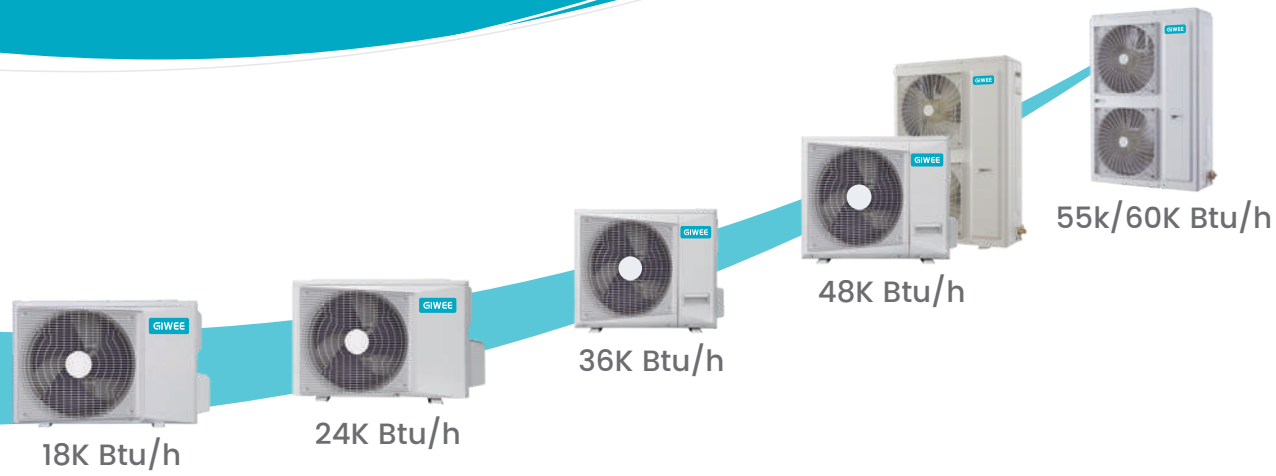
## Specification

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
<b>Capacity</b>				
Cooling	Capacity	4500-9000-9900	6000-12000-13200	9000-18000-19800
	Input	1.3-2.6-2.9	1.76-3.5-3.87	2.64-5.3-5.80
	Rated current	35-40-45	35-40-45	40-45-50
Heating	Capacity	5000-10000-11000	6500-13000-14300	9500-19000-20900
	Input	1.5-2.9-3.2	1.91-3.8-4.19	2.78-5.6-6.13
	Rated current	35-40-45	35-40-45	40-45-50
<b>Physical data</b>				
Indoor air flow (Hi/Mi/Lo)	m <sup>3</sup> /h	520/480/420	560/520/480	610/560/520
Indoor noise (Hi/Mi/Lo)	dB(A)	39/37/35	41/39/37	43/41/39
Sound power noise (Hi/Mi/Lo)	dB(A)	50/48/46	52/50/48	54/52/50
Net dimension (WxHxD)	mm	700x630x215	700x630x215	700x630x215
packing dimension (WxHxD)	mm	790x700x275	790x700x275	790x700x275
Net/Gross weight	kg	15/18	15/18	15/18
<b>Piping data</b>				
Liquid/Gas	mm	6.35/9.52	6.35/9.52	6.35/12.7
Drainage pipe	mm	DN25	DN25	DN25
Application area	m <sup>2</sup>	12-18	16-23	23-34
Dehumidification	kg/h	0.6	0.84	1.27



# DC Inverter Mono LCAC Universal Outdoor Unit



## Features



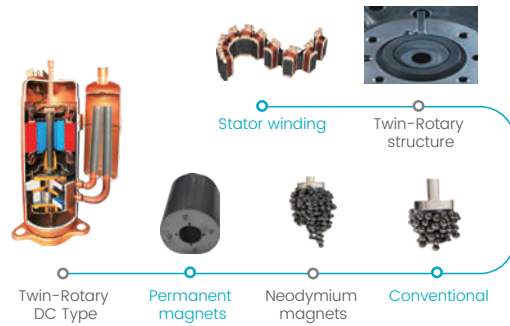
### DC inverter compressor

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



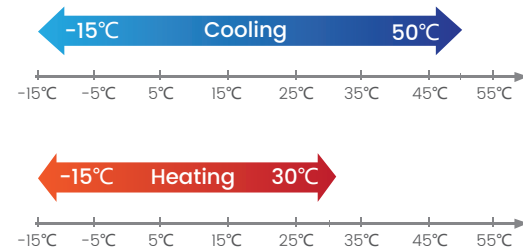
### Brand-new design

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.



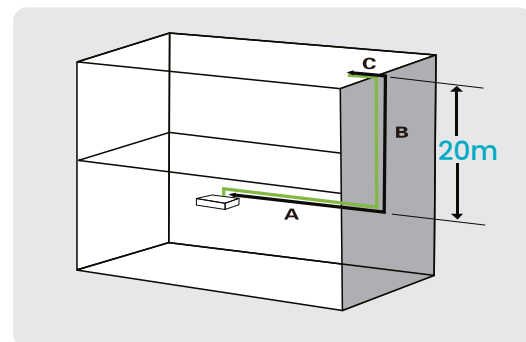
### Wide operation range

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



### Refrigerant piping

Long piping design, for  $\geq 10.5\text{kw}$ , the MAX pipe length is 50m, and height difference is 20m.



## Specification

### R32 Heat Pump



Outdoor unit		COU-V48HZR4-050D	COU-V55HZR4-050D
Power supply	V/N/Hz	380-415/3/50	380-415/3/50
Cooling capacity	kW	14	16
Heating capacity	kW	15	17
Max. power input	W	5400	7200
Max. current input	A	10.0	13.5
Physical data			
Compressor		DC/Twin-rotary	DC/Twin-rotary
Outdoor air flow	m <sup>3</sup> /h	5500	5500
Outdoor pressure noise level	dB(A)	65	65
Outdoor unit	Net(WxHxD)	985×400×1335	985×400×1335
	Packing(WxHxD)	1010×415×1445	1010×415×1445
	Net/Gross weight	83/93	80/90
Refrigerant type/quantity	g	R32/2600	R32/2500
Refrigerant piping	Liquid/Gas side	Φ9.52/Φ15.88	Φ9.52/Φ15.88
	Max.pipe length	50	50
	Max.high drop	20	20
Ambient temp.	Cooling	-15-50	-15-50
	Heating	-15-30	-15-30

### R410a Heat Pump



Outdoor unit		COU-V18HR1-AA01	COU-V24HR1-A01	COU-V36HR1-D01	COU-V36HZR1-D01	COU-V48HR1-D01	COU-V48HZR1-D01	COU-V60HZR1-050D	
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	380-415/3/50	
Cooling capacity	kW	5.3	7.0	10.5	10.5	14.0	14.0	16.0	
Heating capacity	kW	5.3	7.0	10.5	10.5	14.0	14.0	17.6	
Max. input consumption	W	2200	3220	3800	3800	4900	4900	6400	
Max. current	A	9.6	14.0	16.5	6.0	21.3	7.7	11.5	
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	dB(A)	≤51	≤53	≤57	≤57	≤58	≤58	≤58	
Outdoor unit	Net(WxHxD)	804×304×496	880×345×555	1032×445×807	1032×445×807	1032×445×807	1032×445×807	985×400×1335	
	Packing(WxHxD)	850×350×550	915×380×605	1075×495×875	1075×495×875	1075×495×875	1075×495×875	1010×415×1445	
	Net/Gross weight	28.2/30.0	34.2/36.7	60.5/64.5	60.5/64.5	66.5/70.5	67.3/70.6	80.0/90.0	
Refrigerant type/quantity	g	R410A/1400	R410A/1600	R410A/2300	R410A/2300	R410A/3250	R410A/3250	R410A/3400	
Refrigerant piping	Liquid/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	20	50	50	50	50	50	
	Max.high drop	8	10	20	20	20	20	20	
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

- 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.
- The heating condition: indoor side 20°C (68°F) DB, 15°C (44.6°F) WB, outdoor side 7°C (42.8°F) DB.
- 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.
- The above data may be changed without notice for future improvement on quality and performance.



# Round flow cassette

## Controller

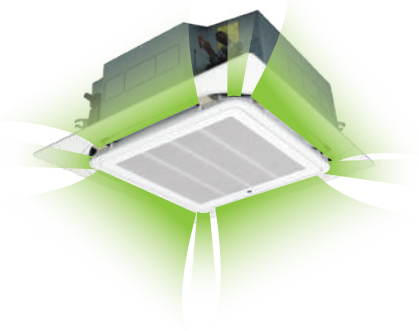


## Features

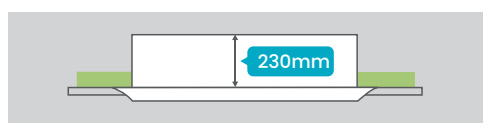
**New Panel**  
Simple, featy and vogueish appearance suit for different requirements, it's mostly used for office, shopping center, restaurant, meeting room and etc.



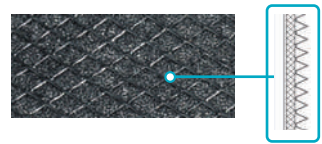
**360° air flow**  
Cold air can reaching each corner of the room, more comfortable.



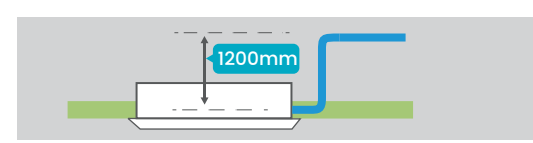
**Ultra-thin body design**  
Ultra-thin body design, the min. Height is only 230mm, saves installation space.



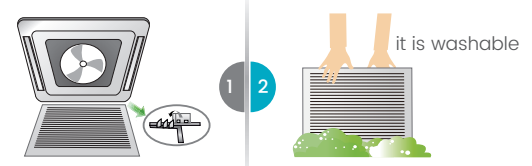
**Cold catalyst filter**  
Cold catalyst filter for optional to absorb small particles to adjust atmospheric particulate matter lower than PM2.5.



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



**Washable filter**  
Washable filter design requires less maintenance since it only needs to be cleaned a couple of times on an annual basis by yourself, easy and cost effective.



## Specification

### R32 Heat Pump

Indoor unit		CCA-V48HR4-Q305	CCA-V55HR4-Q305	
Power supply	V/N/Hz	220-240/1/50	220-240/1/50	
Cooling capacity	kW	14	16	
Heating capacity	kW	15	17	
<b>Physical data</b>				
Indoor fan motor		AC	AC	
Indoor air flow	m <sup>3</sup> /h	1800	1800	
Indoor pressure noise level	dB(A)	42-53	42-53	
Indoor unit	Net(WxHxD)	840×285×840	840×285×840	
	Packing(WxHxD)	Body(mm)	950×50×950	950×50×950
		Panel(mm)	920×310×920	920×310×920
Net/Gross weight	Body(kg)	1030×100×1030	1030×100×1030	
	Panel(kg)	30.5/36	30.5/36	
Refrigerant liquid/gas piping	mm	Φ9.52/Φ15.88	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.

### R410a Heat Pump

Indoor unit		CCR-V18HR1-Q303	CCR-V24HR1-Q303	CCR-V36HR1-Q305	CCR-V48HR1-Q305	CCA-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	5.3	7.0	10.5	14.0	16.0	
	EER	3.1	3.1	3.1	3.1	3.0	
Heating	Capacity	5.3	7.0	10.5	14.0	17.6	
	COP	3.5	3.5	3.4	3.5	3.21	
<b>Physical data</b>							
Indoor air flow	m <sup>3</sup> /h	950	1250	1600	1900	1900	
Indoor noise level	dB(A)	35-40	32-42	45-52	45-52	45-52	
Indoor unit	Net(WxHxD)	840x230x840	840x230x840	840x285x840	840x285x840	840x285x840	
	Packing(WxHxD)	Body(mm)	950x50x950	950x50x950	950x50x950	950x50x950	950x50x950
		Panel(mm)	920x265x920	920x265x920	920x310x920	920x310x920	920x310x920
Net/Gross weight	Body(kg)	1030x100x1030	1030x100x1030	1030x100x1030	1030x100x1030	1030x100x1030	
	Panel(kg)	25/30	25/30	29/33.5	30.5/36	30.5/36	
Refrigerant liquid/gas piping	mm	6.5/9.5	6.5/9.5	6.5/9.5	6.5/9.5	6.5/9.5	
Drainage pipe	mm	Φ6.35/Φ12.7	Φ9.52/Φ15.88	Φ9.52/Φ15.88	Φ9.52/Φ15.88	Φ9.52/Φ15.88	

**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

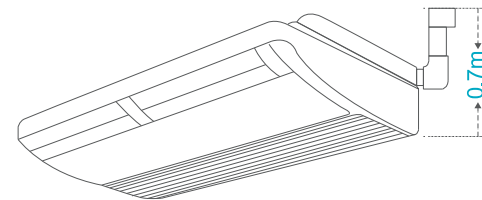
### Flexible installation

Flexible installation, you can choose ceiling suspended and floor standing installation style according to actual project requirements.



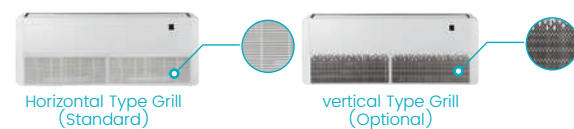
### Water pump

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



### 2 types of Grills available

Two types of grills are available, horizontal stripes and vertical stripes.



### Display panel

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



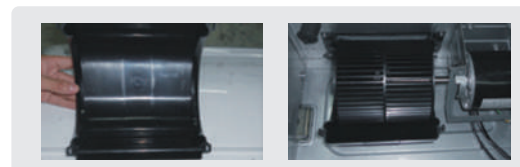
### 3D airflow

Auto-swing function, built-in 3 louver motors, realize vertical and horizontal air-flow adjustment.



### Easy maintenance

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



## Specification

### R32 Heat Pump

Indoor unit		CUA-V48HR4-LDBC	CUA-V55HR4-LDBC
Power supply	V/N/Hz	220-240/1/50	220-240/1/50
Cooling capacity	kW	14	16
Heating capacity	kW	15	17
Physical data			
Indoor fan motor		AC	AC
Indoor air flow	m <sup>3</sup> /h	2100	2100
Indoor pressure noise level	dB(A)	46-55	46-55
Indoor unit	Net(WxHxD)	1670X675X235	1670X675X235
	Packing(WxHxD)	1750X770X325	1750X770X325
	Net/Gross weight	40/46	40/46
Refrigerant liquid/gas piping	mm	Φ9.52/Φ15.88	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.

### 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
Heating	Capacity kW	5.3	7.0	10.5	14.0	17.6
Physical data						
Indoor air flow(high speed)	m <sup>3</sup> /h	1100	1200	1600	2100	2100
Indoor noise level	dB(A)	49-53	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	1750×765×325	1750×765×325
Net/Gross weight	kg	26.5/31	26.5/31	32/37	40/46	40/46
Piping data						
Refrigerant liquid/gas 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.



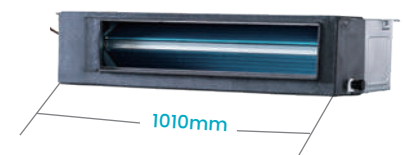
# Low ESP Short Ducted Unit

## Controller

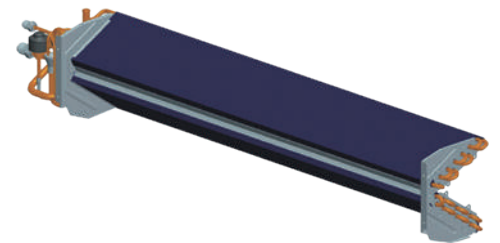


## Features

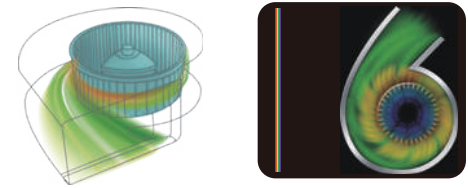
**Short body design**  
Short body, 1010mm length, easy to install, low noise and light weight, suitable for hotel room.



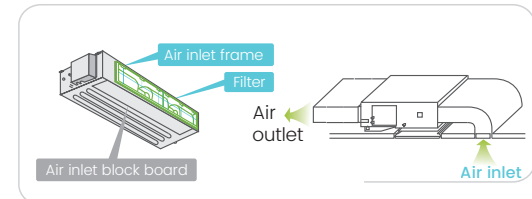
**High heat exchange efficiency**  
V shaped evaporator design, increasing the heating exchanger efficiency.



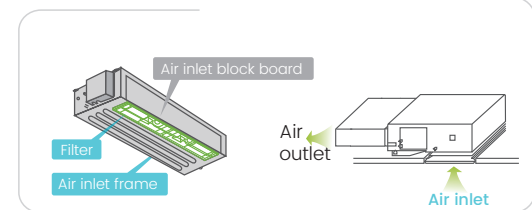
**Centrifugal fan blade**  
Adopting aviation centrifugal fan blade with special air tunnel design, as well as fan motor anti-vibration measure, benefit to increase air flow and decrease the noise.



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



**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.



**Water pump**  
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	220-240/1/50
<b>Performance</b>				
Cooling	Capacity	kW	5.3	7.0
Heating	Capacity	kW	5.3	7.0
<b>Physical data</b>				
Indoor air flow (high speed)	m <sup>3</sup> /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	1279x210x467
	Packing (WxHxD)	mm	1110x240x510	1310x240x510
	Net/Gross weight	kg	21.5/24.5	25/28
<b>Piping data</b>				
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

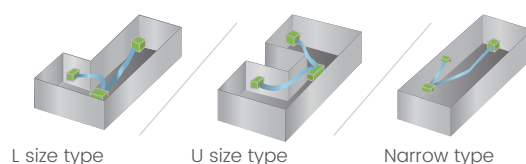
### Ultra thin body

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



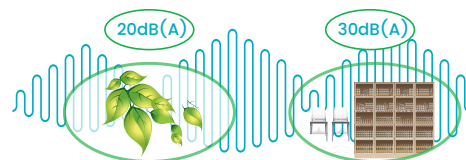
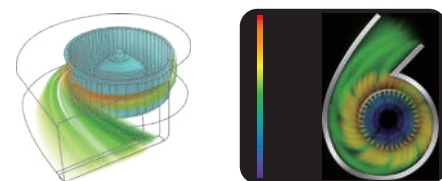
### Wide application

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



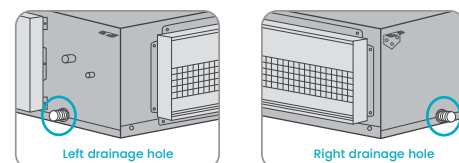
### Centrifugal fan blade

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.



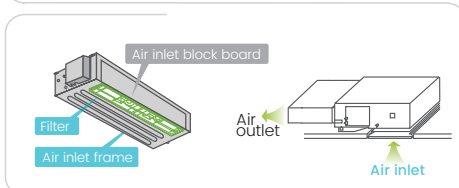
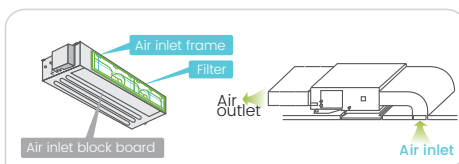
### Convenient for drainage pipe installation

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.



### Flexible installation

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



### Body-side E-box

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



## Specification

### R32 Heat Pump



Indoor unit		CTB-V48HR4-F205	CTB-V55HR4-F205
Power supply	V/N/Hz	220-240/1/50	220-240/1/50
<b>Capacity</b>			
Cooling capacity	kW	14	16
Heating capacity	kW	15	17
<b>Physical data</b>			
Indoor fan motor		AC	AC
Indoor air flow	m <sup>3</sup> /h	1900	1900
Rated static pressure	Pa	50	50
Static pressure range	Pa	0-80	0-80
Indoor noise level	dB(A)	40-52	40-52
Dimension (WxHxD)	mm	1425×643×260	1425×643×260
Packing (WxHxD)	mm	1490×720×325	1490×720×325
Net/Gross weight	kg	45/51	45/51
<b>Piping data</b>			
Refrigerant liquid/gas side	mm	Φ6.35/Φ12.7	Φ9.52/Φ15.88
Drainage pipe	mm	DN25	DN25

### 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
<b>Performance</b>				
Cooling Capacity	kW	10.5	14.0	16.0
Heating Capacity	kW	10.5	14.0	17.6
<b>Physical data</b>				
Indoor air flow (high speed)	m <sup>3</sup> /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	1425×260×643
	Packing (WxHxD)	mm	1255×325×720	1490×325×720
	Net/Gross weight	kg	32/37	45/51
<b>Piping data</b>				
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**  
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.

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

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

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

## Specification

### R32 & R410A Heat Pump

Model			CTH-V48HR4-F305	CTH-V55HR4-F305	CTH-V48HR1-F305	CTH-60HVR1
Indoor power supply		v/N/Hz	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50
<b>Performance</b>						
Cooling	Capacity	kW	14.0	16.0	14.0	16.0
Heating	Capacity	kW	15.0	17.0	14.0	17.6
<b>Physical data</b>						
Indoor air flow (high speed)		m <sup>3</sup> /h	2300	2300	2300	2300
Static pressure		Pa	120	120	150	150
Indoor noise level		dB(A)	44-54	44-54	44-52	44-52
Indoor unit	Net(WxHxD)	mm	1175×625×370	1175×625×370	1175x370x621	1175x370x621
	Packing(WxHxD)	mm	1245×655×445	1245×655×445	1245x445x655	1245x445x655
	Net/Gross weight	kg	47/51	47/51	47/51	47/51
<b>Piping data</b>						
Refrigerant type			R32	R32	R410A	R410A
Refrigerant liquid/gas side pipe		mm	Φ9.52/Φ 15.88	Φ 9.52/ Φ 15.88	Φ9.52/Φ 15.88	Φ9.52/Φ 15.88
Drainage pipe		mm	DN25	DN25	DN25	DN25

# Controller

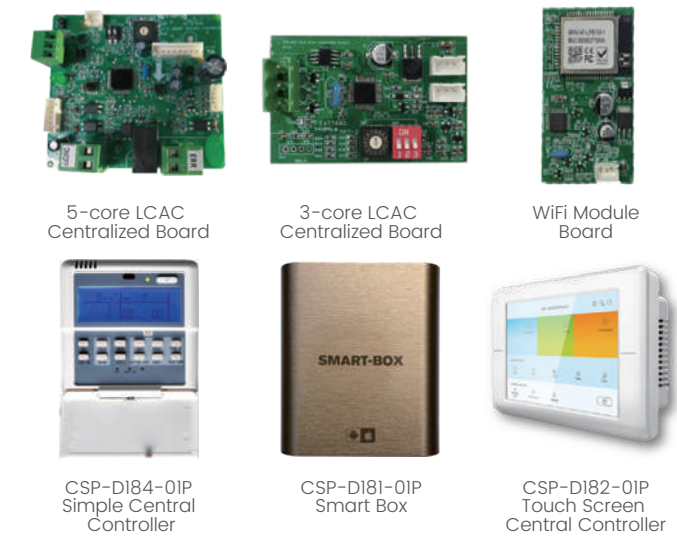
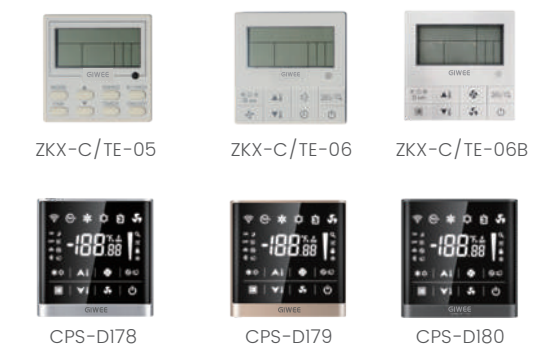


## Wireless controller

- 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



## Central control and WiFi control

- 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.
- Control the AC through the phone easily while you are away from home.