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AER~~X~~COIL

DC INVERTER VRF SYSTEM  
Product Catalogue

T3 Condition

Ver.QT.SS



Thermal Difference Lab



Laboratory Control Room



2000kg Transport Simulation



Noise Test Lab

## R&D Strength



Professional Engineers



EMC Lab



Modular Chiller Test Lab



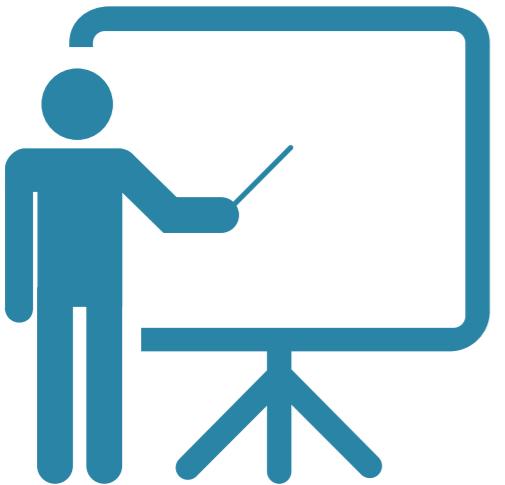
Electromagnetic Vibration Lab

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.

## Directory

- 01 • Overview
- 02 • AC-V Pro
- 21 • Specifications
- 29 • Indoor Units
- 50 • Controller and Software
- 55 • Projects



AC-V Pro

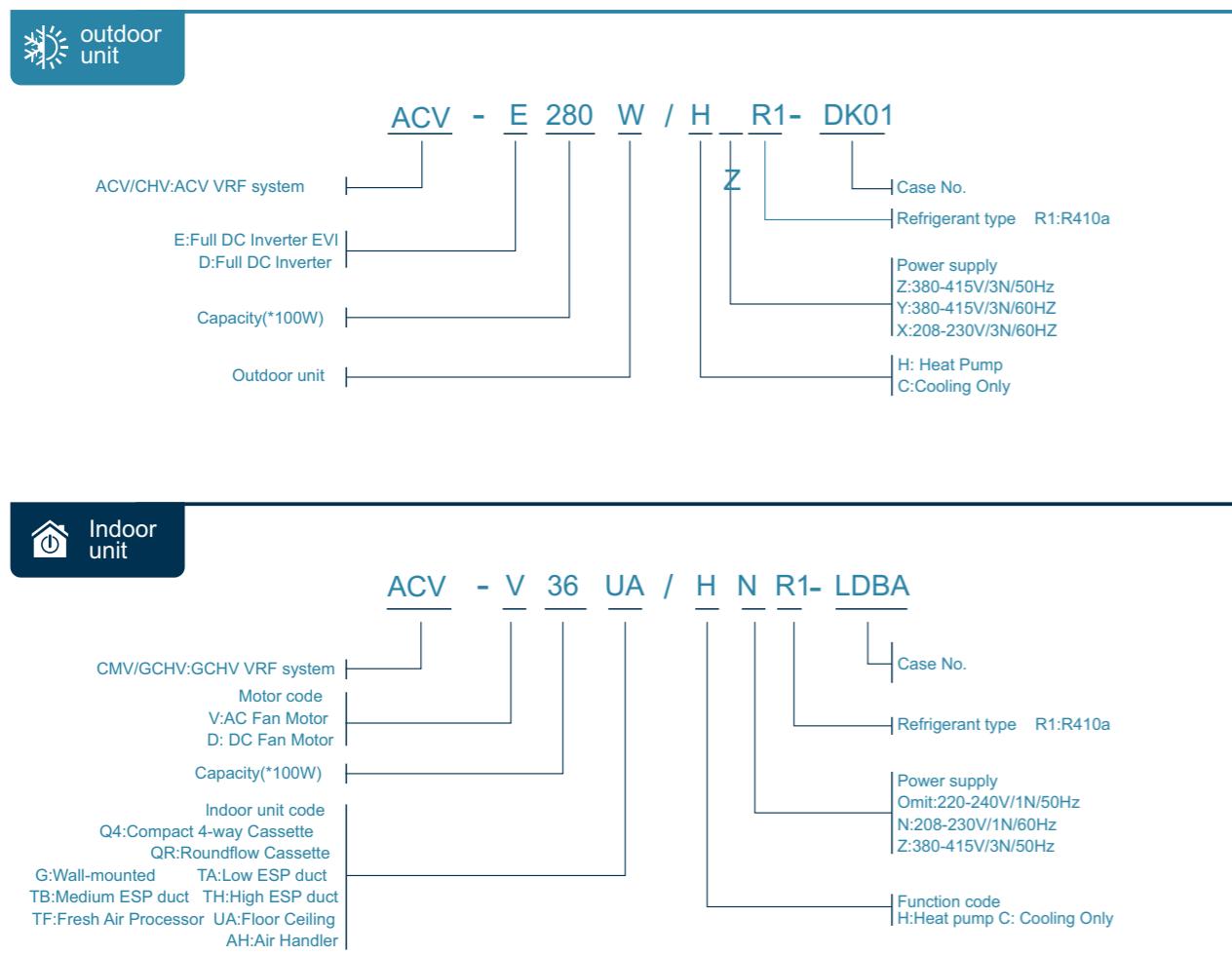
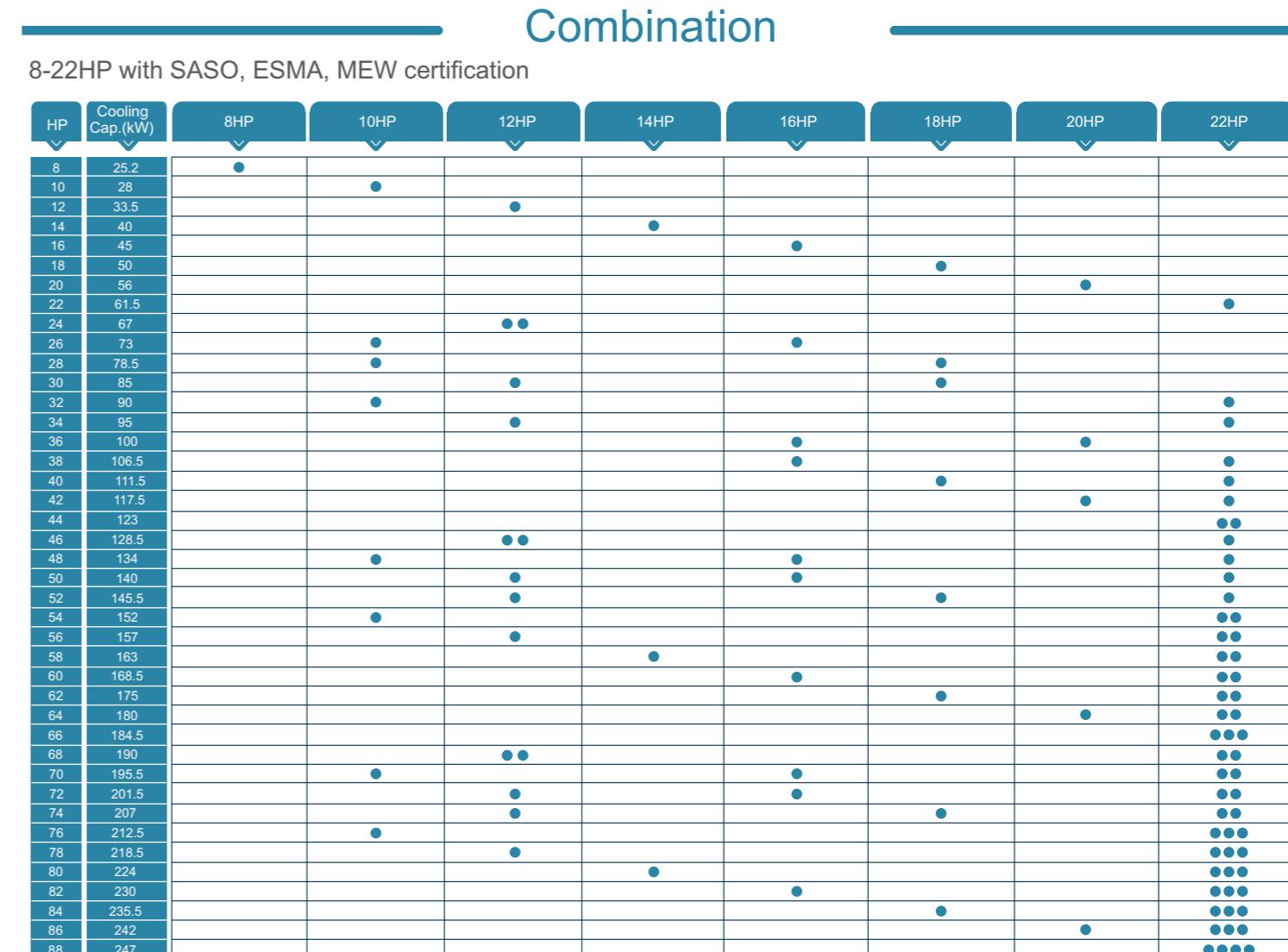
380~415V/3N/50Hz&60Hz  
New Generation Full DC  
Inverter VRF System



13 Basic Modules

# HOW TO READ THE MODEL NAME

Note: Only 8-22HP Models is with SASO, MEW, ESMA certification.



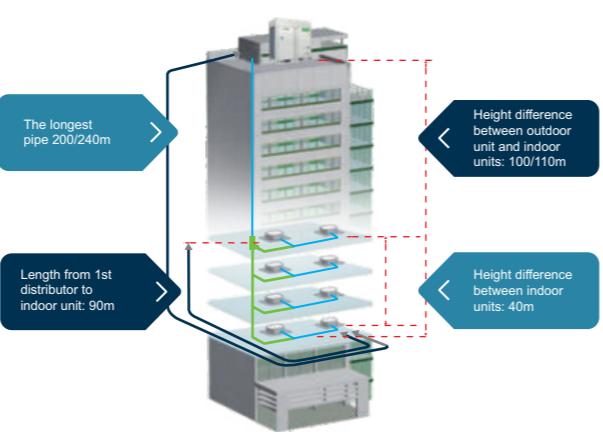
## Combination Table

8-32HP without certification

HP	Cooling Cap.(kW)	8HP	10HP	12HP	14HP	16HP	18HP	20HP	22HP	24HP	26HP	28HP	30HP	32HP
8	25.2	●												
10	28		●											
12	33.5			●										
14	40				●									
16	45					●								
18	50						●							
20	56							●						
22	61.5								●					
24	67									●				
26	73										●			
28	78.5											●		
30	85												●	
32	90													●
34	95													
36	100													
38	106.5													
40	111.5													
42	117.5													
44	123													
46	128.5													
48	134													
50	140													
52	145.5													
54	152													
56	157													
58	163													
60	168.5													
62	175													
64	180													
66	184.5													
68	190													
70	195.5													
72	201.5													
74	207													
76	212.5													
78	218.5													
80	224													
82	230													
84	235.5													
86	242													
88	247													
90	253													
92	258.5													
94	265													
96	270													

## Refrigerant Piping

The total pipe length	1000 m
The longest pipe length	200 /240m
Height difference	Outdoor unit above <100m Outdoor unit below <110m
Height difference between indoor units	40m
Length from first indoor distributor to last indoor unit	90 m
Communication wire length	can be up to 1000m.

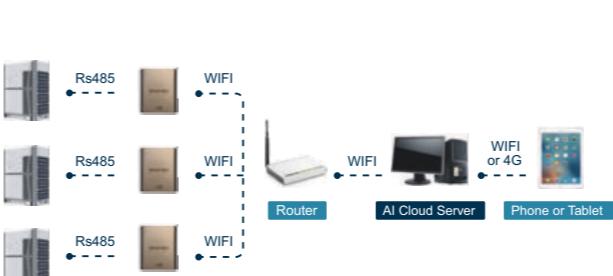


\*Please refer to the installation manual for detailed length description.

## Features

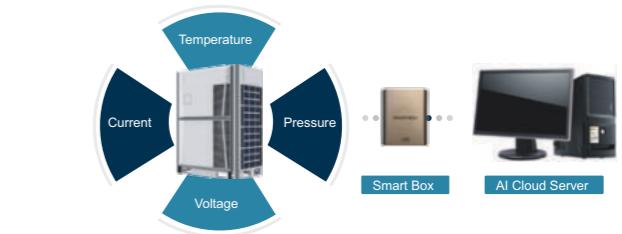
### Long Distance Remote Control

Long distance remote control by phone or tablet.



### (!) Malfunction Forecasting

- Thanks to the AI cloud server, malfunction can be forecasted when system running parameter is abnormal.
- Technician can be sent to site to check the system before it stops.



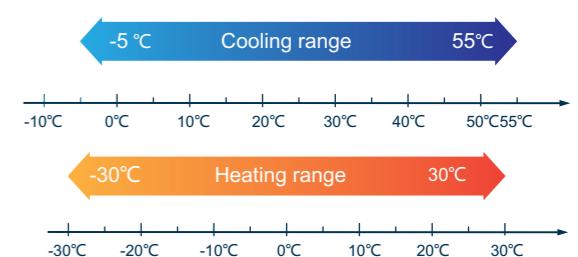
### Refrigerant Cooling Design

We use refrigerant to cool down inverter modular board to keep it in a safe condition even when outdoor temperature is up to 55°C.



### Wide Outdoor Operation Range

- Due to EVI technology, CHV PRO heating performance increased by 35% compare to conventional VRF system.
- Due to EVI technology, CHV PRO still has 85% of rated capacity even in -15°C.



\*Based on ACV internal test report

### Power Saving Mode

According to power usage, realize 7-level power limit setting.



### Refrigerant Status Detection

- Built-in with smart refrigerant auto check function, which can give suggestion about refrigerant status.
- Different code means different refrigerant status:

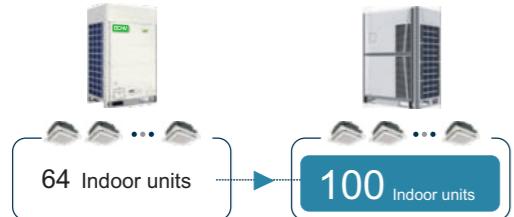


13	Extremely insufficient
12	Insufficient
11	Slightly insufficient
0	Normal
1	Slightly excess
2	Overmuch

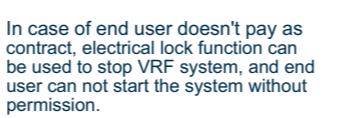
## Features

### ② More indoor units

Max. 100 Indoor units can be connect in ONE system.



### Electrical Lock Function(optional)

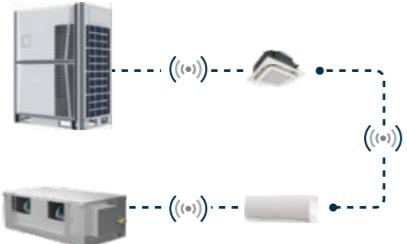


In case of end user doesn't pay as contract, electrical lock function can be used to stop VRF system, and end user can not start the system without permission.

System can be unlock with password by authorized technician.

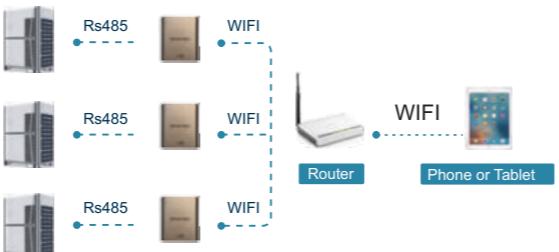
### Wireless Communication(optional)

Wireless communication between indoor units.  
Wireless communication between indoor unit and outdoor unit.



### Online Diagnosis

Technician can do the commissioning & diagnosis by phone or tablet online.



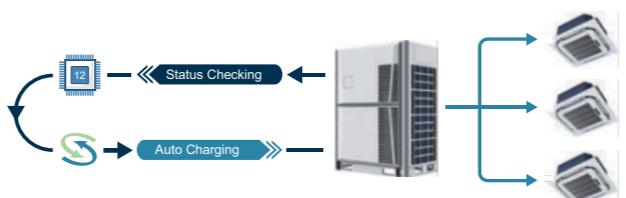
### Service Window On Front Cover

Thanks to the service window, checking outdoor units status and setting is now easy, no need to remove the front cover.

- Error code check
- Function setting
- Commissioning

### Auto Charging Refrigerant(optional)

AC-V PRO can customize with auto refrigerant charging function, additional solenoid valve will be added in gas pipe, and outdoor unit will control the valve to charge refrigerant.

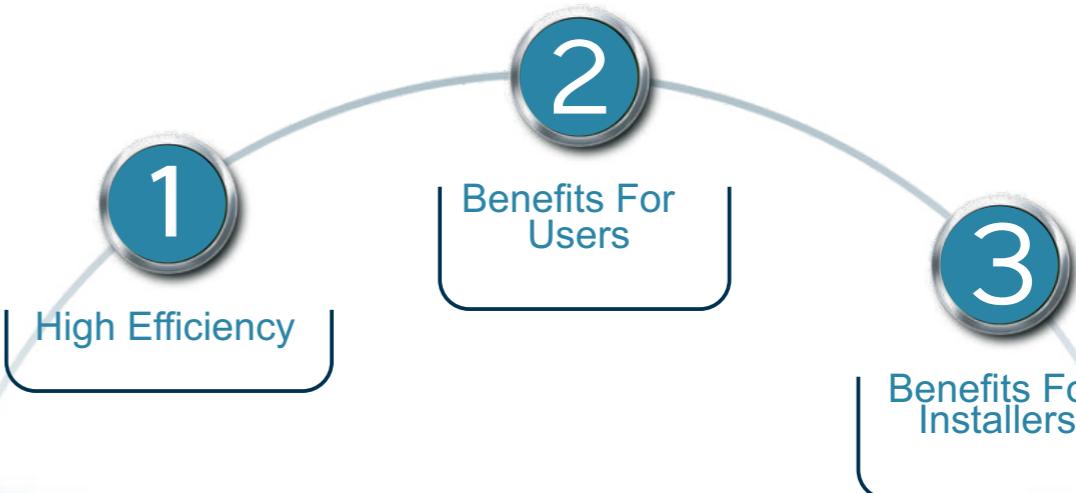


### 13 Basic Modules



### Maximum 96HP

Max.3 outdoor units can be freely combined to become a larger unit. the maximum capacity of single system is 96HP.  
\*when 4 outdoor units are combined, the single unit capacity can not exceed 24HP.



## Advantages



Provide You With Fresh Air



1

## High Efficiency

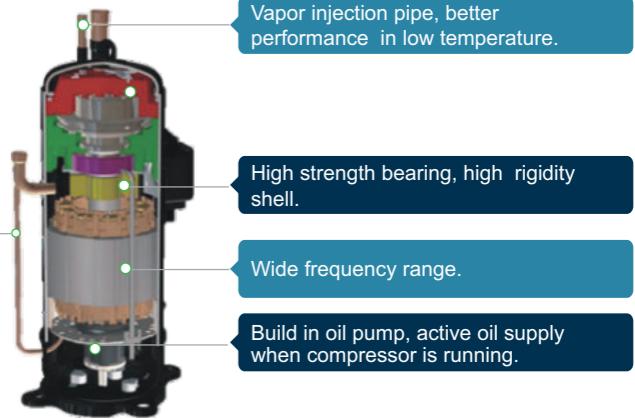
### Low carbon life advocate

AEROcoil always focus on low-carbon energy-saving products development, and spare no effort for technological research and development, to become a practitioner and advocate of low-carbon technology!



## High Efficiency DC Inverter Compressor

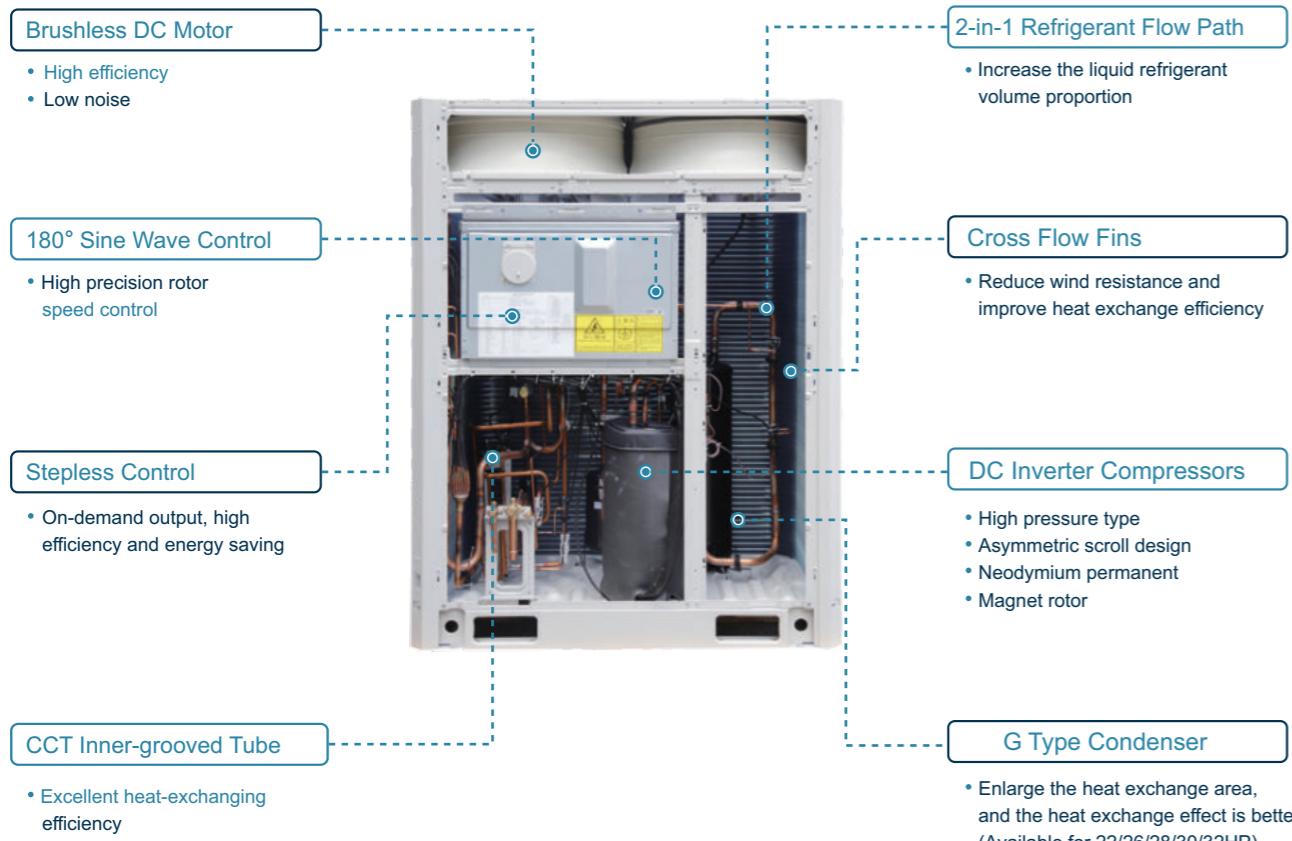
- From Hitachi, famous inverter compressor manufacturer.
- R410a ECO friendly refrigerant.
- Small torque fluctuation, low vibration and quiet operation.
- High efficiency due to its patent internal structure design.
- Internal oil circulation structure.
- High reliability.
- Wide rotation speed range.
- Neodymium permanent magnet rotor, has powerful magnetic force, large torque and high efficiency.
- Concentrated winding, improving low frequency efficiency.
- High pressure chamber
- Has small suction superheat and high refrigerant volume efficiency



\* Has large refrigerant discharge buffer volume, low vibration and noise



### Core Technologies Make High Efficiency



### Neodymium permanent magnet rotor

Powerful magnetic force, large force moment and high efficiency.

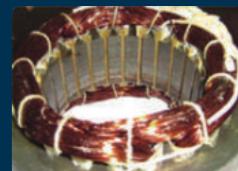


Ferrite magnet

Neodymium permanent magnet

### Concentrated winding

Magnetic efficiency is 12% higher than distributed winding



Concentrated winding

Distributed winding



## High Efficiency DC Motor

High efficiency DC fan motor is from well-known brand.

Low noise and high efficiency because of high-density wire winding engineering.

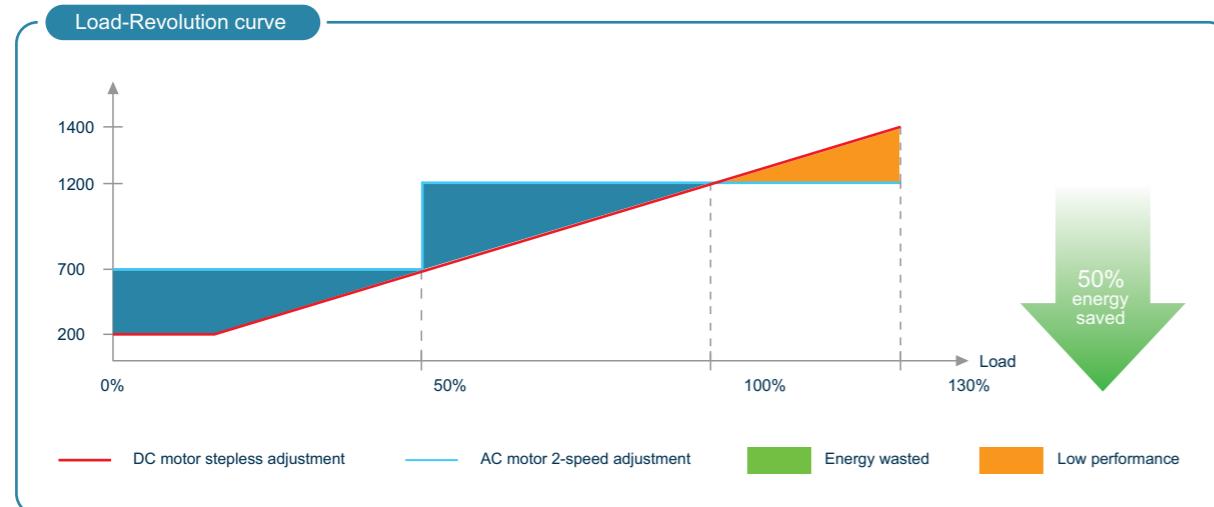
Brushless with built-in sensor.





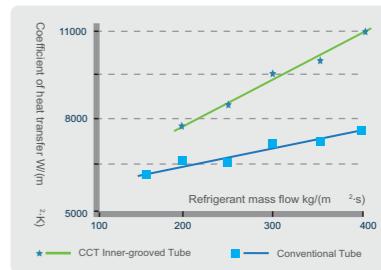
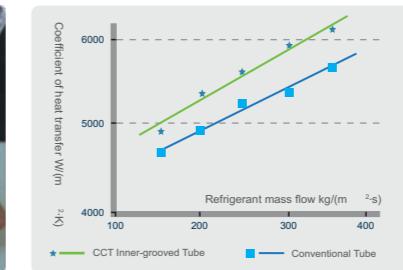
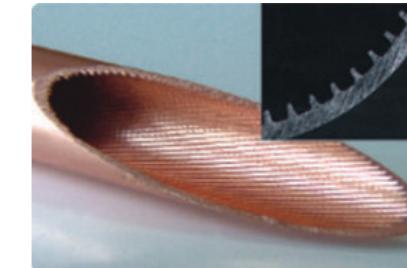
## Stepless Control

DC fan motor can be stepless controlled by outdoor PCB according to system's operating pressure. And it is able to reduce the energy consumption and maintain the system in the best performance.



## CCT Inner-grooved Tube

CCT (Continuous Cooling Transformation) inner-grooved copper tube has high thermometric conductivity. This inner-grooved fins break the refrigerant flow boundary layer to enhance refrigerant disturbance to increase heat-exchanging efficiency.

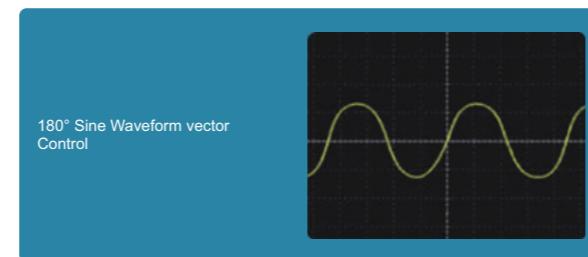
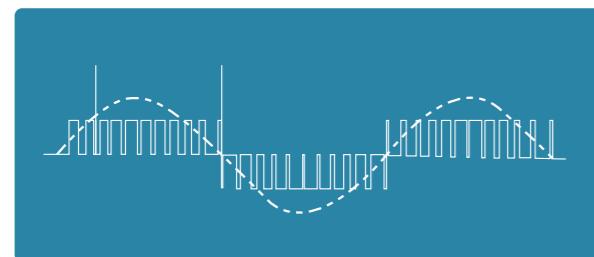


## 2-in-1 Refrigerant Flow Path Design

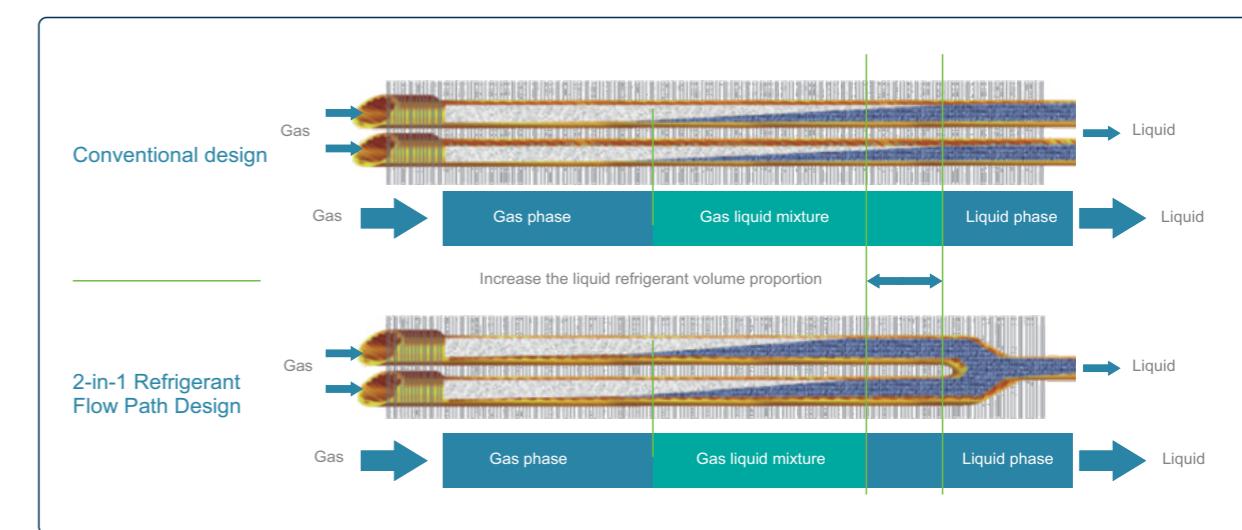
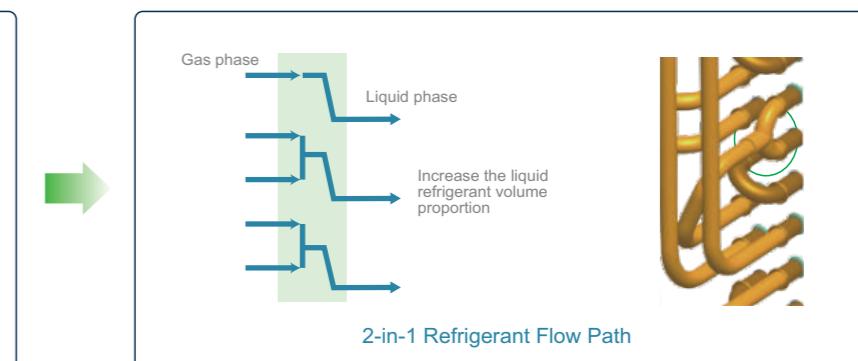
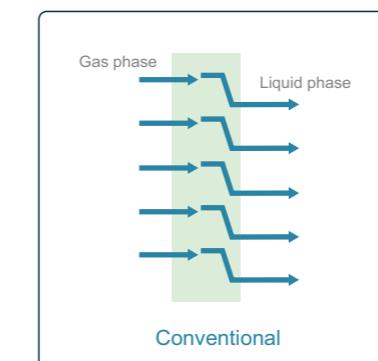
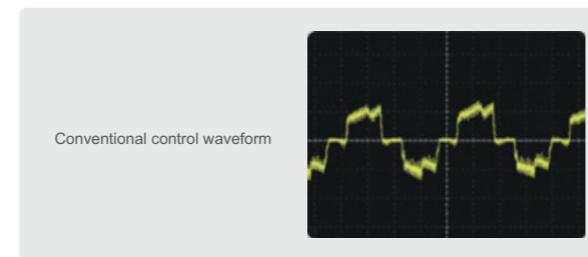
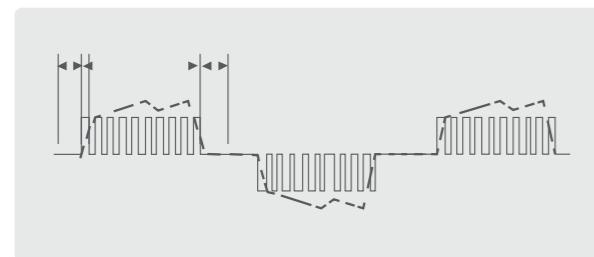


### 180° Sine Waveform Control

The perfect combination of 180° Sine waveform rotor frequency drive control technology and excellent IPM inverters, reduces the reactive loss of motor-driven, increases motor efficiency by 12%.



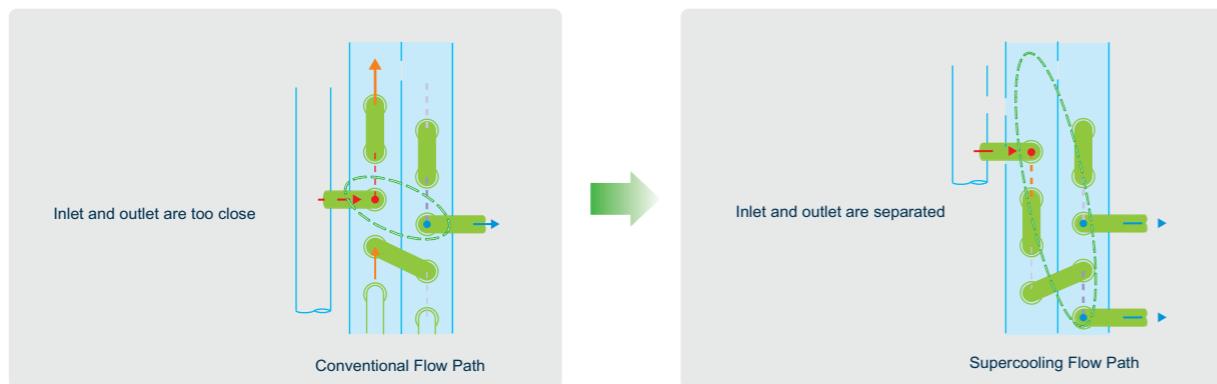
Increase efficiency by 12%





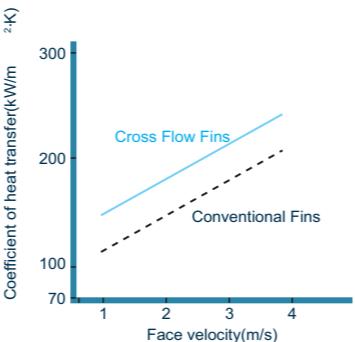
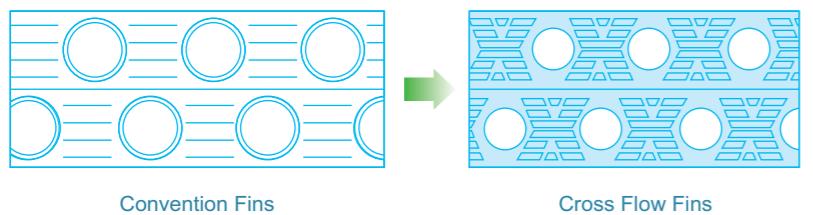
## Supercooling Flow Path Design

Supercooling flow path design, separates the refrigerant inlet and outlet, increase the supercooling degree, reduce the effect of high temperature inlet gas refrigerant to low temperature outlet liquid refrigerant, therefore, the system efficiency will be greatly increased.



## Cross Flow Fins

- Has low air resistance and great heat transfer coefficient.
- Frosting improved, frost on the heat-exchanger will be well-distributed, easy for defrosting.



## Low Resistance Internal piping

- Thanks to the optimization pipeline design, 5% pressure drop are reduced.
- EER and COP increase, because of evaporating temperature increase and compressor work decrease.



## The PHE Economizer

- PHE Economizer technology provide an additional sub cooling.
- Improved heat exchanger+PHE economizer+Optimized control logic.
- Heating performance highly increased.



2

## Benefits For Users

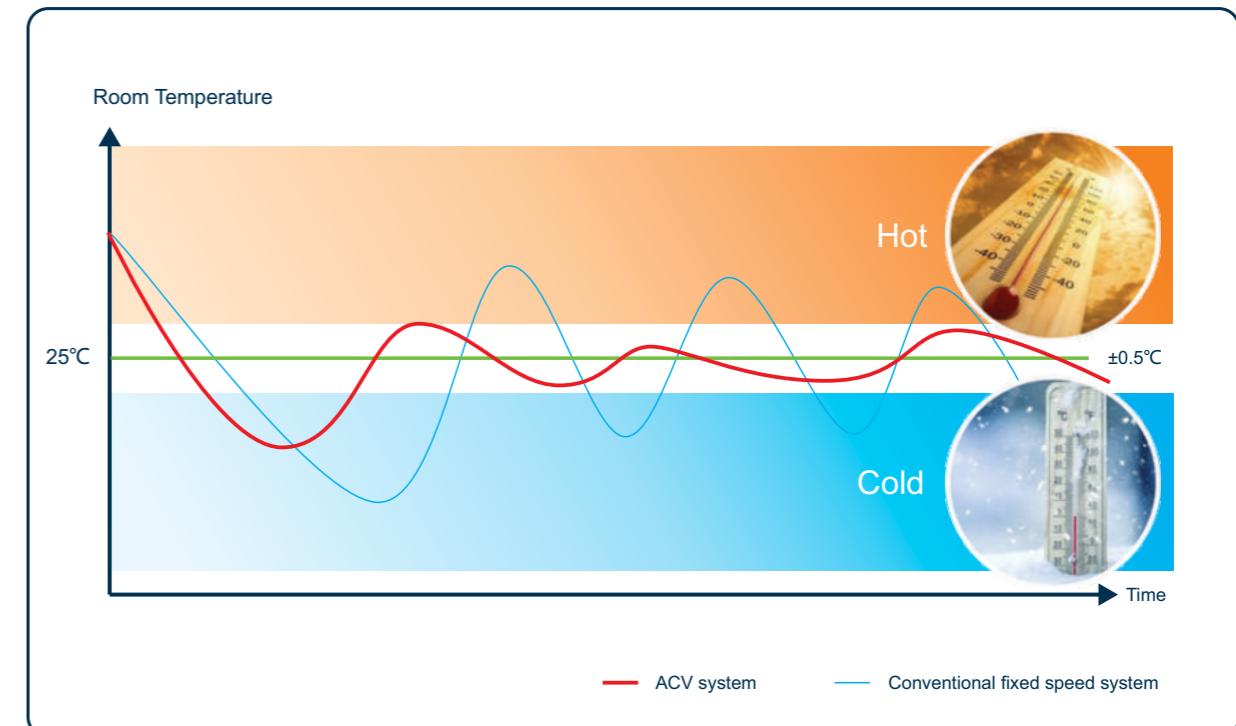
### Livable environment creator

AEROCOIL focuses on starting point of CAC system: create a friendly, comfortable and pleasant living environment as always. DC inverter VRF system's comfort technologies include quick cooling and heating, precise temperature control, low noise, use environmental friendly refrigerant and so on, we strive to create livable environment for users.....



## Outstanding Comfort Ability

- AC-V Pro system have excellent cooling&heating performance, thanks to the high efficiency DC fan motor, DC compressor and optimized refrigerant flow control logic.
- Precisely room temperature control by adopting 2000 pulse EXV. Indoor temperature fluctuation can be maintain within 0.5°C, offers outstanding comfort ability.





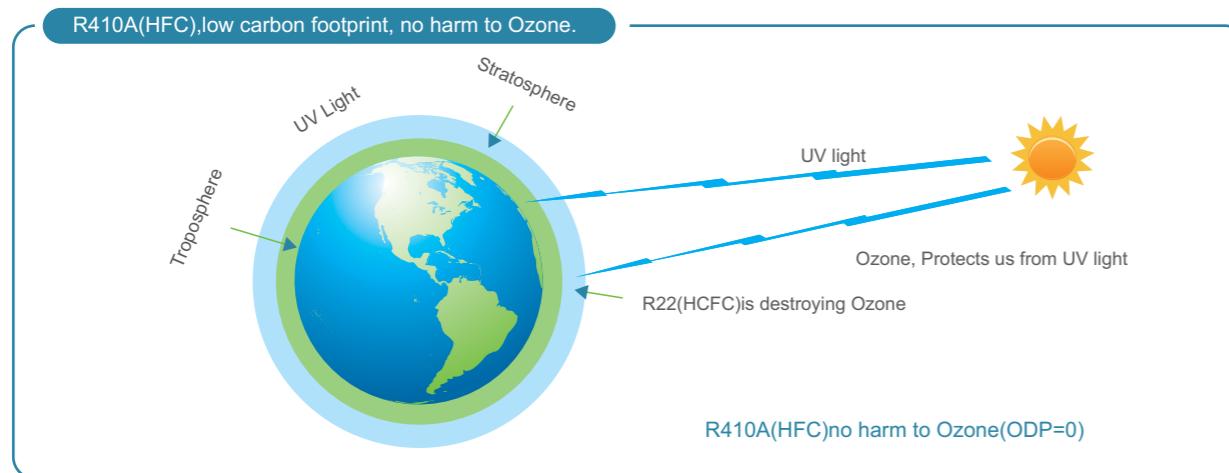
## Wide Operation Range

ACV pro has a wide ambient temperature operation range, cooling at -5-55 °C, and heating at -30-30°C.



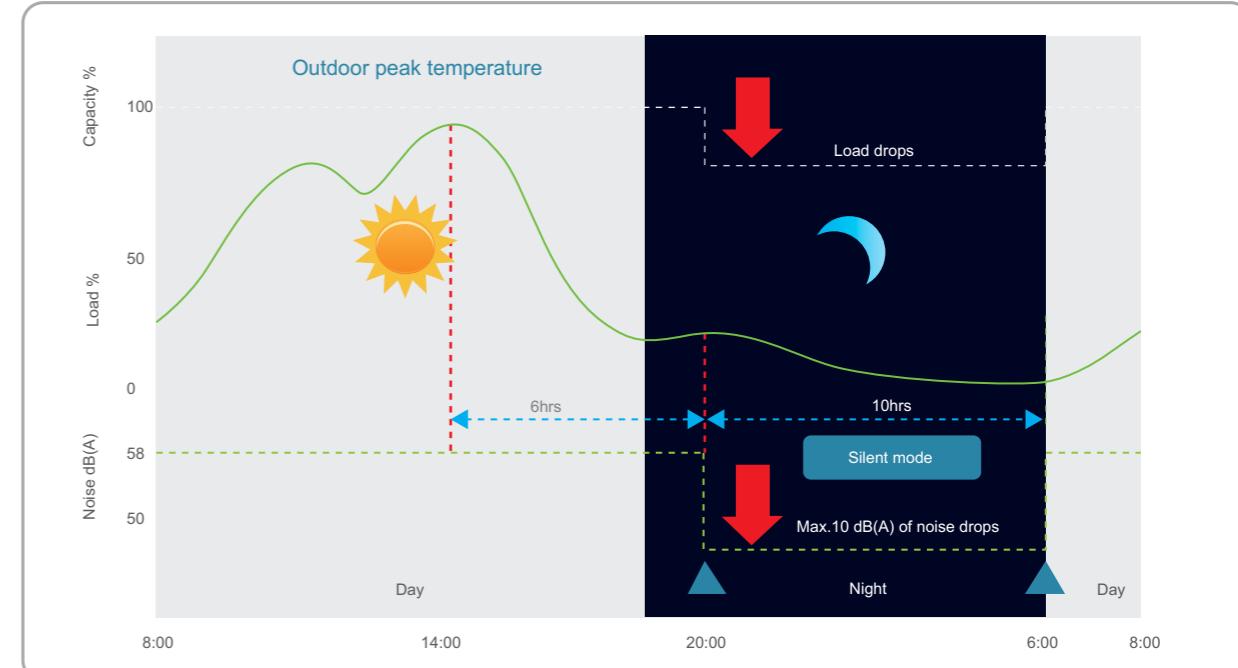
## Environment Friendly

Refrigerant R410A(HFC), low carbon footprint, no harm to Ozone.



## Silent Mode, Night Time Noise Control

- Compressor and fan motor rotating speed can be reduced to lower the noise at night.
- Maximum 10dB(A) decrease.



## Snow-proof Function

- In the cold weather, outdoor fan will start to run for a while at intervals to prevent the snow to accumulate on fan blade, because accumulated snow will freeze and block fan blade rotating, even worse it will damage the motor.



## Low Noise Fan Blade

Fan blade with 7 noise reduction design, effectively reduce the noise while operation.

Front edge curve design

Thickened front edge design

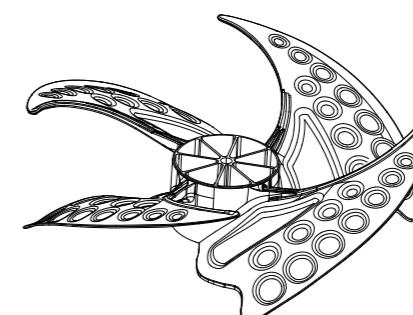
Outer edge turn over design

Tail edge cut design

Bionic fan blade design

Concave fan blade design

Anti-resonance design



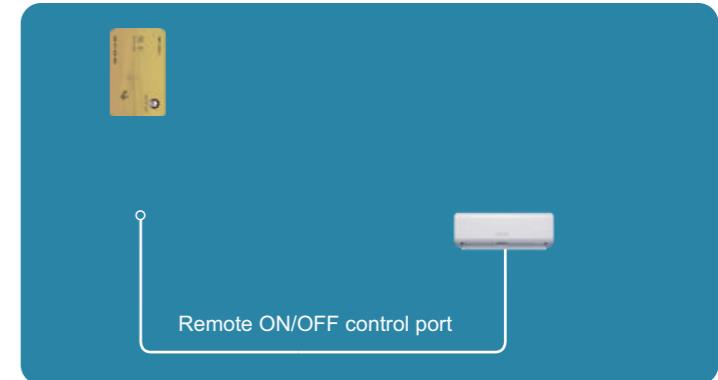


## 3-stage Back Up Function

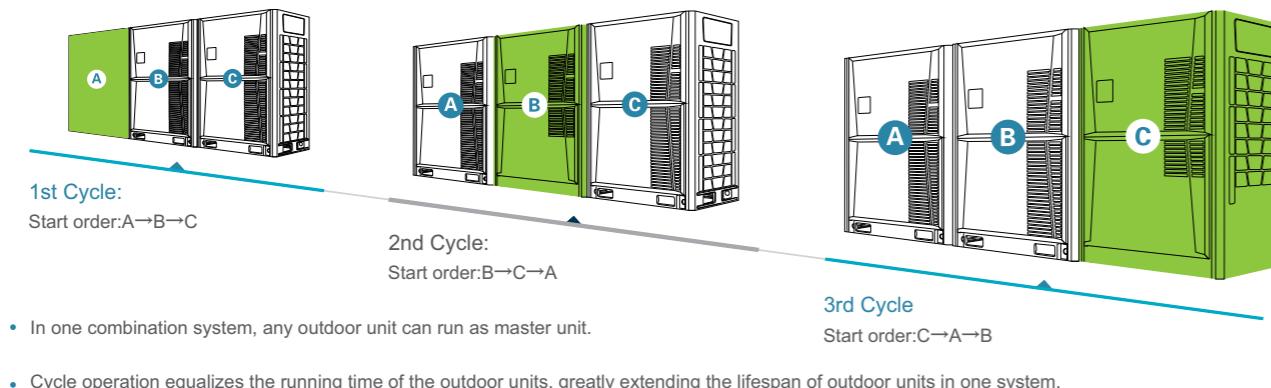


## Remote ON/OFF Control Function

- Indoor units standard build in with ON/OFF control port.
- It can be used for hotel card control and also can be used for long distance remote ON/OFF control. And no need additional hotel VRF indoor unit control module.
- When contactor is open(card pulled out), indoor unit will be off can not be controlled, current running parameters will be saved in indoor PCB.
- When contactor is close(card insert), indoor unit will recover previous running state.



## All Outdoor Units Cycle Operation



## IDU and ODU Positioning Function

Turn on the positioning function through the controller, and all the IDU and ODU of the same system will beep through the built-in buzzer, which is convenient for quick positioning during system commissioning, troubleshooting and after sales maintenance.



## Intelligent Defrosting Program

### 5 special defrosting mechanisms

The dedicated temperature sensor monitors the temperature of the condenser coil of the outdoor unit in real time, intelligently selects the defrost mechanism and judges the timing of defrost, effectively prolongs the normal heating time, improves comfort, and achieves energy-saving effects.

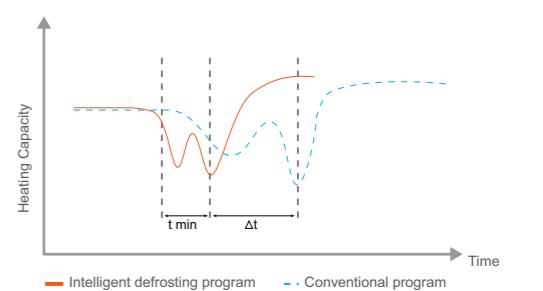
- Normal temperature and low humidity defrosting mechanism
- Low temperature and low humidity defrosting mechanism
- Ultra-low temperature environment defrosting mechanism

Normal temperature and high humidity defrosting mechanism  
Low temperature and high humidity defrosting mechanism

### Defrost Curve

Program starts only when unit needs to. Whereas conventional unit's defrosting timing & duration is fixed, causing fluctuations in temperature and personal comfort.

- Conventional unit's defrosting timing & duration is fixed
- Intelligent defrosting program starts according to heat exchanging efficiency & capacity change due to the frost. Less temperature fluctuations, people feel more comfortable





3

## Benefits For Installers

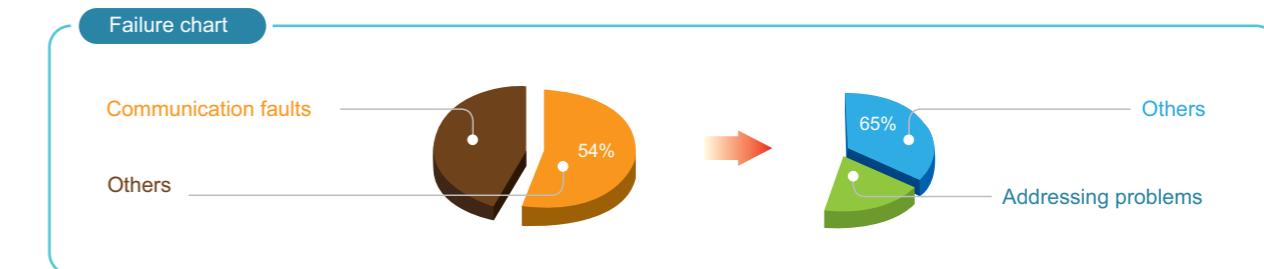
### Optimization for designer and installer

CHV DC inverter VRF system is designed with flexible modular combination concept, we keep optimizing the module size, reduce equipment on space occupied to meet the demand of designer and installer. Some unique technologies are used for our installers to reduce their working load, installation is becoming easier and easier.

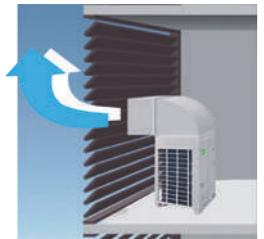


## Automatic Addressing

- Automatic addressing will reduce artificial faults by 35% and 5% manual works.
- 54% system failure were caused by communication faults.
- 65% communication faults were caused by address problems.
- Most of the address problems were: address setting forgotten, wrong settings, address repeat.



## Adjustable Outdoor Fan Static Pressure



- Thanks to DC fan motor, the external static pressure of outdoor fan is adjustable.
- Outdoor units can be installed in the service floor or facility room.
- Maximum ESP 80 Pa.



## Touch Screen Wired Controller



- Air filter cleaning reminding function.
- Touch screen with black background and blue light
- Ultra thin body and stylish design meet high-end environments.
- On/off, temperature setting, fan speed setting, mode setting, timer and check function.



## Addressing Methods

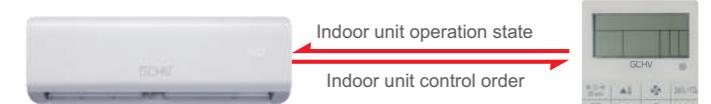


- 2 addressing methods:
- Automatically addressing: system will distribute address to indoor unit automatically.
- Manually setting by wired controller or wireless remote controller.
- Addressing method can be selected easily by adjusting the switch on outdoor PCB.



## New Wired Controller

- Bidirectional communication. Indoor unit's operating parameters(error code, temperature, address)can be inquired and displayed on the controller.
- Compact design.
- Timer function.



User can check the error code and inquiry unit status very easy, safe and convenient.



## Digital Display On The PCB

- Digital display on the PCB, it can show system's operation status and error codes.



- Record error code list at main PCB chip, easy for service people to check.



## Service Window

Thanks to the service window, checking outdoor unit's status and setting is now easy, no need to remove the electric control box cover.

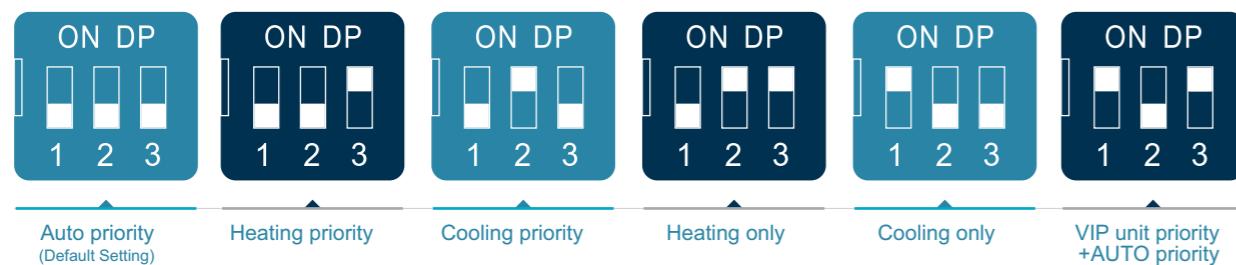
Error Code Check





## Mode Restriction

- 6 kinds of mode restriction
- Auto priority(Default Setting)
- Cooling(or heating)priority mode.
- Cooling only(or heating only)mode.
- VIP unit priority+AUTO priority mode
- Mode restriction function can be selected on the outdoor PCB.



## 5-Stage Oil Control



## Humanized Internal Structure



- All key components are designed to close to outside, it is convenient for repair and replacement.
- Thanks to the new balance technology, gas balance pipe does no longer exist, brazing points and leaking risk are decreased.



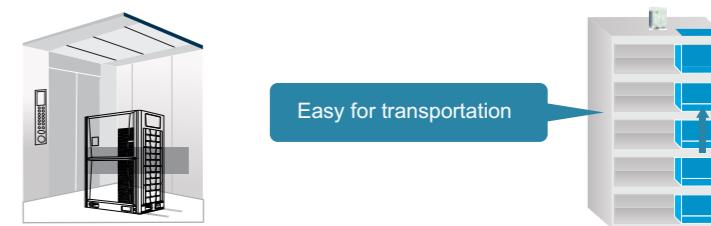
## 3-Phase Power Protector(Optional)

Protect the outdoor unit from unstable voltage.

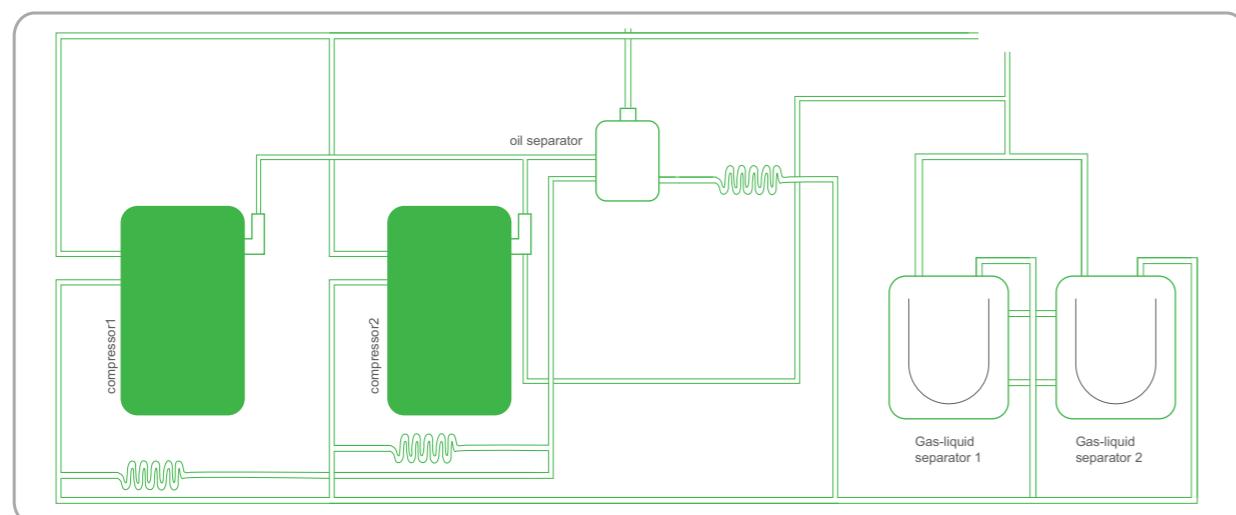


## Easy Installation

- Easy for the outdoor unit to transport to roof floor by elevator due to its compact size.



## 360° Pipe Connection



- The outlet pipe of the outdoor unit can be extended to all directions through the bottom space;
- No outlet pipe on the front can improve the aesthetics of installation;



AC-V Pro

**380-415V/3N/50&60Hz  
NEW AC INVERTER EVI VRF SYSTEM**

Model Name		ACV-E252W/HZR1-DK01	ACV-E280W/HZR1-DK01	ACV-E335W/HZR1-DK01	ACV-E400W/HZR1-DM01	ACV-E450W/HZR1-DM01		
Power Supply		380~415V/3N/50&60Hz	380~415V/3N/50&60Hz	380~415V/3N/50&60Hz	380~415V/3N/50&60Hz	380~415V/3N/50&60Hz		
<b>Performance Data</b>								
Cooling	Capacity	8HP	10HP	12HP	14HP	16HP		
		T1:25.2/T3:22.2	T1:27.9/T3:24.6	T1:33.3/T3:28.2	T1:39.9/T3:33.6	T1:45/T3:37.2		
		T1:86000/T3:76000	T1:95000/T3:84000	T1:114000/T3:96000	T1:136000/T3:114000	T1:154000/T3:126000		
		T1:7.2/T3:6.4	T1:8.0/T3:7.03	T1:9.5/T3:8.06	T1:11.4/T3:9.6	T1:12.8/T3:10.6		
		T1:12.0/T3:13.4	T1:13.4/T3:15.2	T1:16.2/T3:17.9	T1:19.5/T3:22.1	T1:22.7/T3:24.5		
		T1:7.5/T3:8.4	T1:8.37/T3:9.5	T1:10.12/T3:11.2	T1:12.22/T3:13.80	T1:14.19/T3:15.3		
		T1:11.5/T3:9.05	T1:11.35/T3:8.85	T1:11.25/T3:8.55	T1:11.15/T3:8.25	T1:10.8/T3:8.25		
Heating	Capacity	27.2	31.35	37.2	45.1	49.8		
		93000	107000	127000	154000	170000		
		7.8	8.96	10.63	12.9	14.2		
		11.8	14.4	18.1	21.80	24.9		
		7.40	9.00	11.30	13.60	15.60		
		3.68	3.48	3.29	3.32	3.19		
		13.4	14.3	14.8	18.3	18.8		
Max. input consumption		W/W	23.1	24.7	25.5	30.8		
Max. Current		kW	23.1	24.7	25.5	31.7		
Capacity adjustment range		A	50%~130%					
<b>Compressor Data</b>								
Compressor	Quantity		1					
	Type		Scroll Compressor					
	Brand		HITACHI					
<b>Physical Data</b>								
Refrigerant	Type		R410a					
	Volume	Kg	9	11	14			
	Throttle type		EXV					
Dimension (WxHxD)	Net	mm	990x1740x840		1340x1740x840			
	Packing	mm	1060x1900x910		1410x1900x910			
Weight	Net	Kg	228	230	275			
	Gross	Kg	240	242	293			
Outdoor sound level		dB(A)	58	60	60	61		
Max. operating range		Mpa	4.5					
<b>Piping Data</b>								
Pip	Liquid pipe	mm	Φ12.7					
	Gas pipe	mm	Φ22.2					
Max. pipe length	Total pipe length	m	1000					
	ODU to farthest IDU (Actual length)	m	200					
	ODU to farthest IDU (Equivalent length)	m	240					
	1st IDU distributor to farthest IDU	m	40/90					
			100					
Max. v length	Between ODU & IDU (ODU above IDU)	m	100					
	Between ODU & IDU (ODU below IDU)	m	110					
	Between IDUs	m	40					
	Between ODUs	m	0					
<b>Operation Temperature Range</b>								
Cooling	Outdoor side	°C	-5~55					
	Indoor side	°C	16~32					
Heating	Outdoor side	°C	-30~30					
	Indoor side	°C	16~32					

ACV-E500W/HZR1-DM01	ACV-E560W/HZR1-DM01	ACV-E615W/HZR1-DM01	ACV-E670W/HZR1-DS01	ACV-E730W/HZR1-DS01	ACV-E785W/HZR1-DS01	ACV-E850W/HZR1-DS01	ACV-E900W/HZR1-DS01
380~415V/3N/50&60Hz	380~415V/3N/50&60Hz	380~415V/3N/50&60Hz	380~415V/3N/50&60Hz	380~415V/3N/50&60Hz	380~415V/3N/50&60Hz	380~415V/3N/50&60Hz	380~415V/3N/50&60Hz
<b>Performance Data</b>							
18HP	20HP	22HP	24HP	26HP	28HP	30HP	32HP
T1:50/T3:41.5	T1:56/T3:46	T1:61.5/T3:49	T1:67/T3:56.3	T1:73/T3:60.59	T1:78.5/T3:64.4	T1:85/T3:68.8	T1:90/T3:72.5
T1:170000/T3:142000	T1:192000/T3:156000	T1:208000/T3:168000	T1:228600/T3:192025	T1:249100/T3:206750	T1:267800/T3:219600	T1:290000/T3:235000	T1:307100/T3:247200
T1:14.3/T3:11.6	T1:16/T3:13.1	T1:17.6/T3:14	T1:19.1/T3:16.0	T1:20.8/T3:17.3	T1:22.3/T3:18.3	T1:24.2/T3:19.6	T1:25.6/T3:20.6
T1:25.1/T3:27.4	T1:28.7/T3:30.8	T1:31.3/T3:32.6	T1:33.5/T3:36.6	T1:36.6/T3:39.8	T1:39.6/T3:42.3	T1:43.3/T3:45.5	T1:46/T3:48.4
T1:15.7/T3:17.15	T1:17.94/T3:19.25	T1:19.6/T3:20.4	T1:21/T3:22.9	T1:22.9/T3:24.9	T1:24.8/T3:26.5	T1:27.1/T3:28.5	T1:28.8/T3:30.3
T1:10.85/T3:8.25	T1:10.65/T3:8.1	T1:10.65/T3:8.20	T1:10.90/T3:8.35	T1:10.85/T3:8.3	T1:10.8/T3:8.28	T1:10.65/T3:8.15	
56.3	62.7	68.6	75	81.5	87.5	95	100
192000	214000	234000	255900	278100	298600	324100	341200
16.1	17.9	19.6	21.3	23.2	24.88	27.0	28.4
28.6	32.10	35.70	36.5	40.20	44.10	48.30	51.70
17.90	20.10	22.30	22.80	25.08	27.52	30.16	32.26
3.15	3.12	3.08	3.29	3.25	3.18	3.15	3.10
22.0	24.4	25.0	26.2	30.1	30.7	35.8	37.7
37.4	41.1	42.1	43.2	50.8	51.8	60.4	63.6
<b>Compressor Data</b>							
1		2					
Scroll Compressor		Scroll Compressor					
HITACHI		HITACHI					
<b>Physical Data</b>							
<b>R410a</b>							
15		16		20		23	
<b>EXV</b>							
1340x1740x840</							

AC-V Pro

380~415V/3N/60Hz  
New DC inverter EVI VRF SYSTEM

Model Name		ACV-E252W/HYR1-DK01	ACV-E280W/HYR1-DK01	ACV-E335W/HYR1-DK01		
Power Supply		380~415V/3N/60Hz	380~415V/3N/60Hz	380~415V/3N/60Hz		
<b>Performance Data</b>						
Cooling	Capacity	ACV	8HP	10HP	12HP	
		kW	T1:25.2/T3:22.2	T1:27.9/T3:24.6	T1:33.3/T3:28.2	
		Btu/h	T1:86000/T3:76000	T1:95000/T3:84000	T1:114000/T3:96000	
	Rated current	RT	T1:7.2/T3:6.4	T1:8.0/T3:7.03	T1:9.5/T3:8.06	
		A	T1:10.9/T3:12.0	T1:12.2/T3:13.6	T1:14.7/T3:16.1	
		kW	T1:6.8/T3:7.5	T1:7.6/T3:8.5	T1:9.2/T3:10.05	
		(Btu/h)/W	T1:12.65/T3:10.15	T1:12.50/T3:9.85	T1:12.40/T3:9.55	
Heating	Capacity	kW	27.2	31.35	37.2	
		Btu/h	93000	107000	127000	
		RT	7.8	8.96	10.63	
	Rated current	A	11	13.1	16.3	
		kW	6.85	8.20	10.20	
		COP	3.97	3.83	3.65	
		W/W	13.4	14.3	14.8	
Max. input consumption		kW	23.1	24.7	25.5	
Max. Current		A	50%~130%	50%~130%	50%~130%	
Capacity adjustment range			50%~130%	50%~130%	50%~130%	
<b>Compressor Data</b>						
Compressor	Quantity		1			
	Type		Scroll Compressor			
	Brand		HITACHI			
<b>Physical Data</b>						
Refrigerant	Type		R410a	R410a		
	Volume	kg	9	11		
	Throttle type		EXV	EXV		
Dimension (WxHxD)	Net	mm	990x1740x840	990x1740x840		
	Packing	mm	1060x1900x910	1060x1900x910		
Weight	Net	kg	228	230		
	Gross	kg	240	242		
Outdoor sound level		dBA	58	60		
Max. operating range		MPa	4.5	4.5		
<b>Piping Data</b>						
Pip	Liquid pipe	mm	Ø12.7			
	Gas pipe	mm	Ø22.2			
Max. pipe length	Total pipe length	m	1000			
	ODU to farthest IDU (Actual length)	m	200			
	ODU to farthest IDU (Equivalent length)	m	240			
	1st IDU distributor to farthest IDU	m	40/90			
			100			
Max. v length	Between ODU & IDU (ODU above IDU)	m	110			
	Between ODU & IDU (ODU below IDU)	m	40			
	Between IDUs	m	0			
	Between ODUs	m	0			
<b>Operation Temperature Range</b>						
Cooling	Outdoor side	°C	-5~55			
	Indoor side	°C	16~32			
Heating	Outdoor side	°C	-30~30			
	Indoor side	°C	16~32			

1. Cooling operating temperature range is from -5°C to 55°C (It can be customized down to -10°C). Heating operating temperature range is from -30°C to 30°C.

2. The cooling conditions: indoor side 27°C(80.6°F) DB, 19°C(60°F)WB outdoor side 35°C(95°F) DB.

3. The heating conditions: indoor side 20°C(68°F) DB, 15°C(64.6°F)WB outdoor side 7°C(42.8°F)DB.

4. Sound level: measured at a point 1 m in front of the unit at a height of 1.5 m. During actual operation, these values are normally somewhat higher as a result of ambient conditions.

5. The above data may be changed without notice for future improvement on quality and performance.

## Note

ACV-E400W/HYR1-DM01	ACV-E450W/HYR1-DM01	ACV-E500W/HYR1-DM01	ACV-E560W/HYR1-DM01	ACV-E615W/HYR1-DM01	
380~415V/3N/60Hz	380~415V/3N/60Hz	380~415V/3N/60Hz	380~415V/3N/60Hz	380~415V/3N/60Hz	
<b>Performance Data</b>					
14HP	16HP	18HP	20HP	22HP	
T1:39.9/T3:33.6	T1:45/T3:37.2	T1:50/T3:41.5	T1:56/T3:46	T1:61.5/T3:49	
T1:136000/T3:114000	T1:154000/T3:126000	T1:170000/T3:142000	T1:192000/T3:156000	T1:208000/T3:168000	
T1:11.4/T3:9.6	T1:12.8/T3:10.6	T1:14.3/T3:11.6	T1:16/T3:13.1	T1:17.6/T3:14	
T1:17.6/T3:19.4	T1:20.6/T3:21.8	T1:22.9/T3:24.6	T1:25.7/T3:27.3	T1:28.2/T3:28.9	
T1:11.0/T3:12.10	T1:13.0/T3:13.60	T1:14.3/T3:15.5	T1:16.2/T3:17.05	T1:17.55/T3:18.16	
T1:12.35/T3:9.40	T1:11.85/T3:9.25	T1:11.90/T3:9.15	T1:11.85/T3:9.25	T1:11.85/T3:9.25	
45.1	49.8	56.3	62.7	68.6	
154000	170000	192000	214000	234000	
12.9	14.2	16.1	17.9	19.6	
19.50	22.7	25.4	28.90	32.50	
12.20	14.20	15.90	18.10	20.30	
3.7	3.51	3.54	3.46	3.38	
18.3	18.8	22.0	24.4	25.0	
30.8	31.7	37.4	41.1	42.1	
50%~130%	50%~130%	50%~130%	50%~130%	50%~130%	
<b>Compressor Data</b>					
Compressor	Quantity		1		
	Type		Scroll Compressor		
	Brand		HITACHI		
<b>Physical Data</b>					
Refrigerant	Type		R410a	R410a	
	Volume	kg	9	11	
	Throttle type		EXV	EXV	
Dimension (WxHxD)	Net	mm	990x1740x840	990x1740x840	
	Packing	mm	1060x1900x910	1060x1900x910	
Weight	Net	kg	228	230	
	Gross	kg	240	242	
Outdoor sound level		dBA	58	60	
Max. operating range		MPa	4.5	4.5	
<b>Piping Data</b>					
Pip	Liquid pipe	mm	Ø15.88		
	Gas pipe	mm	Ø28.6		
Max. pipe length	Total pipe length	m	1000		
	ODU to farthest IDU (Actual length)	m	200		
	ODU to farthest IDU (Equivalent length)	m	240		
	1st IDU distributor to farthest IDU	m	40/90		
			100		
Max. v length	Between ODU & IDU (ODU above IDU)	m	110		
	Between ODU & IDU (ODU below IDU)	m	40		
	Between IDUs	m	0		
	Between ODUs	m	0		
<b>Operation Temperature Range</b>					
Cooling	Outdoor side	°C	-5~55		
	Indoor side	°C	16~32		
Heating	Outdoor side	°C	-30~30		
	Indoor side	°C	16~32		

AC-V Pro

380-415V/3N/50Hz  
New DC inverter EVI VRF SYSTEM

Model Name		ACV-E252W/HZR1-DK01	ACV-E280W/HZR1-DK01	ACV-E335W/HZR1-DK01		
Power Supply		380~415V/3N/50Hz	380~415V/3N/50Hz	380~415V/3N/50Hz		
<b>Performance Data</b>						
Cooling	Capacity	ACV	8HP	10HP	12HP	
		kW	T1:25.2/T3:22.2	T1:27.9/T3:24.6	T1:33.3/T3:28.2	
		Btu/h	T1:86000/T3:76000	T1:95000/T3:84000	T1:114000/T3:96000	
	Rated current	RT	T1:7.2/T3:6.4	T1:8.0/T3:7.03	T1:9.5/T3:8.06	
		A	T1:12.0/T3:13.4	T1:13.4/T3:15.2	T1:16.2/T3:17.9	
		kW	T1:7.5/T3:8.4	T1:8.37/T3:9.5	T1:10.12/T3:11.2	
		(Btu/h)/W	T1:11.5/T3:9.05	T1:11.35/T3:8.85	T1:11.25/T3:8.55	
Heating	Capacity	kW	27.2	31.35	37.2	
		Btu/h	93000	107000	127000	
		RT	7.8	8.96	10.63	
	Rated current	A	11.8	14.4	18.1	
		kW	7.40	9.00	11.30	
		COP	3.68	3.48	3.29	
		W/W	13.4	14.3	14.8	
Max. input consumption		kW	23.1	24.7	25.5	
Max. Current		A	50%~130%	50%~130%	50%~130%	
Capacity adjustment range						
<b>Compressor Data</b>						
Compressor	Quantity		1			
	Type		Scroll Compressor			
	Brand		HITACHI			
<b>Physical Data</b>						
Refrigerant	Type		R410a	R410a		
	Volume	kg	9	11		
	Throttle type		EXV	EXV		
Dimension (WxHxD)	Net	mm	990x1740x840	990x1740x840		
	Packing	mm	1060x1900x910	1060x1900x910		
Weight	Net	kg	228	230		
	Gross	kg	240	242		
Outdoor sound level		dB(A)	58	60		
Max. operating range		MPa	4.5	4.5		
<b>Piping Data</b>						
Pip	Liquid pipe	mm	Ø12.7			
	Gas pipe	mm	Ø22.2			
Max. pipe length	Total pipe length	m	1000			
	ODU to farthest IDU (Actual length)	m	200			
	ODU to farthest IDU (Equivalent length)	m	240			
	1st IDU distributor to farthest IDU	m	40/90			
Max. v length	Between ODU & IDU (ODU above IDU)	m	100			
	Between ODU & IDU (ODU below IDU)	m	110			
	Between IDUs	m	40			
	Between ODUs	m	0			
<b>Operation Temperature Range</b>						
Cooling	Outdoor side	°C	-5~55			
	Indoor side	°C	16~32			
Heating	Outdoor side	°C	-30~30			
	Indoor side	°C	16~32			

ACV-E400W/HZR1-DM01	ACV-E450W/HZR1-DM01	ACV-E500W/HZR1-DM01	ACV-E560W/HZR1-DM01	ACV-E615W/HZR1-DM01
380~415V/3N/50Hz	380~415V/3N/50Hz	380~415V/3N/50Hz	380~415V/3N/50Hz	380~415V/3N/50Hz
<b>Performance Data</b>				
14HP	16HP	18HP	20HP	22HP
T1:39.9/T3:33.6	T1:45/T3:37.2	T1:50/T3:41.5	T1:56/T3:46	T1:61.5/T3:49
T1:136000/T3:114000	T1:154000/T3:126000	T1:170000/T3:142000	T1:192000/T3:156000	T1:208000/T3:168000
T1:11.4/T3:9.6	T1:12.8/T3:10.6	T1:14.3/T3:11.6	T1:16/T3:13.1	T1:17.6/T3:14
T1:19.5/T3:22.1	T1:22.7/T3:24.5	T1:25.1/T3:27.4	T1:28.7/T3:30.8	T1:31.3/T3:32.6
T1:12.22/T3:13.80	T1:14.19/T3:15.3	T1:15.7/T3:17.15	T1:17.94/T3:19.25	T1:19.6/T3:20.4
T1:11.15/T3:8.25	T1:10.8/T3:8.25	T1:10.85/T3:8.25	T1:10.65/T3:8.1	T1:10.65/T3:8.20
45.1	49.8	56.3	62.7	68.6
154000	170000	192000	214000	234000
12.9	14.2	16.1	17.9	19.6
21.80	24.9	28.6	32.10	35.70
13.60	15.60	17.90	20.10	22.30
3.32	3.19	3.15	3.12	3.08
18.3	18.8	22.0	24.4	25.0
30.8	31.7	37.4	41.1	42.1
50%~130%	50%~130%	50%~130%	50%~130%	50%~130%
<b>Compressor Data</b>				
1	1	HITACHI	HITACHI	HITACHI
Compressor	Quantity			
	Type		Scroll Compressor	
	Brand		HITACHI	
<b>Physical Data</b>				
Refrigerant	Type		R410a	R410a
	Volume	kg	9	11
	Throttle type		EXV	EXV
Dimension (WxHxD)	Net	mm	990x1740x840	990x1740x840
	Packing	mm	1060x1900x910	1060x1900x910
Weight	Net	kg	228	230
	Gross	kg	240	242
Outdoor sound level		dB(A)	58	60
Max. operating range		MPa	4.5	4.5
<b>Piping Data</b>				
Pip	Liquid pipe	mm	Ø12.7	Ø15.88
	Gas pipe	mm	Ø22.2	Ø28.6
Max. pipe length	Total pipe length	m	1000	1000
	ODU to farthest IDU (Actual length)	m	200	200
	ODU to farthest IDU (Equivalent length)	m	240	240
	1st IDU distributor to farthest IDU	m	40/90	40/90
Max. v length	Between ODU & IDU (ODU above IDU)	m	100	100
	Between ODU & IDU (ODU below IDU)	m	110	110
	Between IDUs	m	40	40
	Between ODUs	m	0	0
<b>Operation Temperature Range</b>				
Cooling	Outdoor side	°C	-5~55	-5~55
	Indoor side	°C	16~32	16~32
Heating	Outdoor side	°C	-30~30	-30~30
	Indoor side	°C	16~32	16~32

1. Cooling operating temperature range is from -5°C to 55°C (It can be customized down to -10°C). Heating operating temperature range is from -30°C to 30°C.

2. The cooling conditions: indoor side 27°C(80.6°F) DB, 19°C(60°F)WB outdoor side 35°C(95°F) DB.

3. The heating conditions: indoor side 20°C(68°F) DB, 15°C(64.6°F)WB outdoor side 7°C(42.8°F)DB.

4. Sound level: measured at a point 1 m in front of the unit at a height of 1.5 m. During actual operation, these values are normally somewhat higher as a result of ambient conditions.

5. The above data may be changed without notice for future improvement on quality and performance.

Note

AC-V Pro

380-415/3N/50Hz  
New DC inverter EVI VRF SYSTEM

Model Name			ACV-E252W/HZR1-DK01	ACV-E280W/HZR1-DK01	ACV-E335W/HZR1-DK01
Power Supply		380~415V/3N/50Hz	380~415V/3N/50Hz	380~415V/3N/50Hz	380~415V/3N/50Hz
Performance Data		8HP	10HP	12HP	
Cooling	Capacity	kW	T1:25.2/T4:20.1	T1:28/T4:22.4	T1:33.3/T4:25.0
		Btu/h	T1:86000/T4:68000	T1:95000/T4:76000	T1:114000/T4:85000
		RT	T1:7.2/T4:5.74	T1:8.0/T4:6.4	T1:9.5/T4:7.14
	Rated current	A	T1:12.0/T4:12.3	T1:13.4/T4:13.9	T1:16.2/T4:15.7
		kW	T1:7.5/T4:7.7	T1:8.37/T4:8.7	T1:10.12/T4:9.8
	EER	(Btu/h)/W	T1:11.47/T4:8.83	T1:11.35/T4:8.74	T1:11.26/T4:8.67
Heating	Capacity	kW	27.2	31.35	37.2
		Btu/h	93000	107000	127000
		RT	7.8	8.96	10.63
	Rated current	A	11.8	14.4	18.1
		kW	7.40	9.00	11.30
	COP	W/W	3.68	3.48	3.29
Max. input consumption		kW	13.4	14.3	14.8
Max. Current		A	23.1	24.7	25.5
Capacity adjustment range			50%~130%	50%~130%	50%~130%
Compressor Data					
Compressor	Quantity		1		
	Type		Scroll Compressor		
	Brand		HITACHI		
Physical Data					
Refrigerant	Type		R410a	R410a	
	Volume	kg	9	11	
	Throttle type		EXV	EXV	
Dimension (WxHxD)	Net	mm	990x1740x840	990x1740x840	
	Packing	mm	1060x1900x910	1060x1900x910	
Weight	Net	kg	228	230	
	Gross	kg	240	242	
Outdoor sound level		dB(A)	58	60	
Max. operating range		MPa	4.5	4.5	
Piping Data					
Pip	Liquid pipe	mm	Ø12.7		
	Gas pipe	mm	Ø22.2		
Max. pipe length & size	Total pipe length	m	1000		1000
	ODU to farthest IDU (Actual length)	m	200		200
	ODU to farthest IDU (Equivalent length)	m	240		240
	1st IDU distributor to farthest IDU	m	40/90		40/90
	Between ODU & IDU (ODU above IDU)	m	100		100
	Between ODU & IDU (ODU below IDU)	m	110		110
Max. v length	Between IDUs	m	40		40
	Between ODUs	m	0		0
	Operation Temperature Range				
	Cooling	Outdoor side	°C	-5~55	-5~55
		Indoor side	°C	16~32	16~32
Heating	Vertical	Outdoor side	°C	-30~30	-30~30
		Indoor side	°C	16~32	16~32

1. Cooling operating temperature range is from -5°C to 55°C (It can be customized down to -10°C). Heating operating temperature range is from -30°C to 30°C.

2. The cooling conditions: indoor side 27°C(80.6°F) DB, 19°C(60°F)WB outdoor side 35°C(95°F) DB.

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

4. Sound level: measured at a point 1 m in front of the unit at a height of 1.5 m. During actual operation, these values are normally somewhat higher as a result of ambient conditions.

5. The above data may be changed without notice for future improvement on quality and performance.

Note

ACV-E400W/HZR1-DM01	ACV-E450W/HZR1-DM01	ACV-E500W/HZR1-DM01	ACV-E560W/HZR1-DM01	ACV-E615W/HZR1-DM01
380~415V/3N/50Hz	380~415V/3N/50Hz	380~415V/3N/50Hz	380~415V/3N/50Hz	380~415V/3N/50Hz
8HP	10HP	12HP	14HP	16HP
T1:25.2/T4:20.1	T1:28/T4:22.4	T1:33.3/T4:25.0	T1:40/T4:25.5	T1:45/T4:28.3
T1:86000/T4:68000	T1:95000/T4:76000	T1:114000/T4:85000	T1:136000/T4:87000	T1:153000/T4:96000
T1:7.2/T4:5.74	T1:8.0/T4:6.4	T1:9.5/T4:7.14	T1:11.4/T4:7.29	T1:12.8/T4:8.09
T1:12.0/T4:12.3	T1:13.4/T4:13.9	T1:16.2/T4:15.7	T1:19.5/T4:16	T1:22.2/T4:17.8
T1:7.5/T4:7.7	T1:8.37/T4:8.7	T1:10.12/T4:9.8	T1:12.22/T4:10.0	T1:13.86/T4:11.1
T1:11.47/T4:8.83	T1:11.35/T4:8.74	T1:11.26/T4:8.67	T1:11.13/T4:8.7	T1:11.04/T4:8.65
27.2	31.35	37.2	44.8	49.8
93000	107000	127000	153000	170000
7.8	8.96	10.63	12.9	14.2
11.8	14.4	18.1	21.80	24.9
7.40	9.00	11.30	13.60	15.60
3.68	3.48	3.29	3.29	3.19
13.4	14.3	14.8	18.3	18.8
23.1	24.7	25.5	30.8	31.7
50%~130%	50%~130%	50%~130%	50%~130%	50%~130%
1	1	1	1	1
Scroll Compressor				
HITACHI				
R410a	R410a	R410a	R410a	R410a
14	14	15	16	16
EXV	EXV	EXV	EXV	EXV
1340x1740x840	1340x1740x840	1340x1740x840	1340x1740x840	1340x1740x840
1410x1900x910	1410x1900x910	1410x1900x910	1410x1900x910	1410x1900x910
275	275	285	290	297
293	293	303	308	315
60	61	62	63	63
4.5	4.5	4.5	4.5	4.5
Ø12.7	Ø22.2	Ø15.88	Ø28.6	Ø100
1000	200	240	40/90	100
200	40/90	100	110	40
40	0	40	40	40
0	0	0	0	0
-5~55	16~32	-5~55	16~32	16~32
16~32	-30~30	16~32	-30~30	-30~30
16~32	16~32	16~32	16~32	16~32

# INDOOR UNITS

Provide you with fresh air



## Indoor Units line Up

Capacity (kW)	1-way cassette	2-way cassette	Round flow cassette	4-way cassette (Compact type)	Air Handler
2.2	●			●	
2.8	●			●	
3.6	●			●	
4.5	●	●		●	
5.6	●	●	●		
7.1	●	●	●		
8.0		●	●		
9.0			●		
10.0			●		
11.2			●		
12.0			●		
12.5			●		
14.0			●		
15.0			●		
16.0			●		●

Capacity (kW)	Wall-mounted	Floor Ceiling	Short ceiling concealed ducted unit	Medium ESP ducted unit	High ESP ducted unit	Fresh air processor
2.2	●		●			
2.8	●		●			
3.6	●		●			
4.5	●		●			
5.6	●		●			
7.1	●		●			
8.0			●			
9.0			●			
10.0			●			
11.2			●			
12.0				●		
12.5				●		
14.0			●			
15.0				●		
16.0			●			
20.0						●
22.4						●
25.0						●
28.0						●
45.0						●
56.0						●

## 1-way Cassette



## 2-way Cassette



## Features

### Accessories

Plenum box	Air filter	EXV	Drain pump	AC motor	DC motor
/	Standard	Standard	Standard(built-in)	Standard	/

### Slim body, easy to install

Has slim body with 250mm height, it is specially suitable for low suspended ceiling rooms.



### Built-in with drainage pump

Built-in with low noise long life drainage pump, Pumping head is 700mm, flexible for drainage pipe design.



## Specification

Model name	Power type	Capacity				Motor input	Air flow	Sound Level	ESP	Dimension(WxHxD)				Body Weight			Connecting pipe			Standard controller
		Cooling		Heating						Packing	Body	Panel packing	Panel	Net	Gross	Gas	Liquid	Drain		
		kW	kBtu/h	kW	kBtu/h	mm	M³/h	CFM	DB(A)	Pa	mm	mm	mm	kg	kg	mm	mm	mm		
ACV-V22Q1/HR1-B	50Hz	2.2	7.5	2.5	8.5	0.04	520	306	32-36	/	1160 275 X 655	994 250 X 532	1090 65 X 540	1070 50 X 520	24/3.6	30/5.0	Φ9.53	/	/	/
ACV-V28Q1/HR1-B	50Hz	2.8	9.5	3.2	10.9	0.04	520	306	32-36	/	1160 315 X 655	994 290 X 532	1090 65 X 540	1070 50 X 520	26/3.6	32/5.0	Φ6.35	/	/	/
ACV-V36Q1/HR1-B	50Hz	3.6	12.2	4.0	13.6	0.05	610	360	36-41	/	1160 315 X 655	994 290 X 532	1090 65 X 540	1070 50 X 520	26/3.6	32/5.0	Φ12.7	ODΦ25	Remote controller	/
ACV-V45Q1/HR1-B	50Hz	4.5	15.3	5.0	17.0	0.05	610	360	36-41	/	1470 305 X 690	1304 290 X 572	1390 70 X 560	1380 50 X 520	34/3.6	39/5.0	Φ15.9	Φ9.53	/	/
ACV-V56Q1/HR1-B	50Hz	5.6	19.1	6.3	21.4	0.07	750	440	35-41	/	1470 305 X 690	1304 290 X 572	1390 70 X 560	1380 50 X 520	34/3.6	39/5.0	Φ15.9	Φ9.53	/	/
ACV-V71Q1/HR1-B	50Hz	7.1	24.2	8.0	27.2	0.09	950	550	38-45	/	1470 305 X 690	1304 290 X 572	1390 70 X 560	1380 50 X 520	34/3.6	39/5.0	Φ15.9	Φ9.53	/	/

Notes:

1.Power supply: 220~240V/1N for 50Hz, the above data is for AC motor model.

2.Cooling test condition: indoor side 27°C DB, 19°C WB outdoor side 35°C DB. Heating test condition: indoor side 20°C DB, 15°C WB outdoor side 7°C DB.

3.Sound level: measured at a point 1 m in front of the unit at a height of 1.5m. 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.

## Features

### Accessories

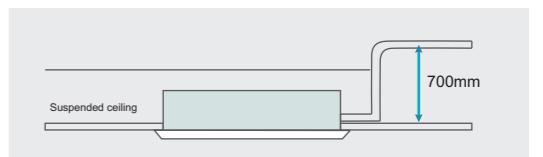
Plenum box	Air filter	EXV	Drain pump	AC motor	DC motor
/	Standard	Standard(built-in)	Standard(built-in)	Standard	/

### 2 way air direction

Two direction air flow, flexibly install in various rooms or hallway

### Built-in with drainage pump

Built-in with low noise long life drainage pump, Pumping head is 700mm,flexible for drainage pipe design.



## Specification

Model name	Power type	Capacity				Motor input	Air flow	Sound Level	ESP	Dimension(WxHxD)				Body Weight			Connecting pipe			Standard controller
		Cooling		Heating						Packing	Body	Panel packing	Panel	Net	Gross	Gas	Liquid	Drain		
		kW	kBtu/h	kW	kBtu/h	mm	M³/h	CFM	DB(A)	Pa	mm	mm	mm	kg	kg	mm	mm	mm		
ACV-V45Q2/HR1-B	50Hz	4.5	15.3	5.0	17	0.07	800	470	36-42	/	1215 365 X 630	1068 310 X 517	1235 70 X 655	1205 50 X 630	33/6.5	36/8.5	Φ12.7	Φ6.35	/	ODΦ25
ACV-V56Q2/HR1-B	50Hz	5.6	19.1	6.3	21.4	0.10	1120	650	40-46	/	1455 365 X 630	1308 310 X 517	1475 70 X 655	1445 50 X 630	40/7.5	47/10.0	Φ15.9	Φ9.53	/	ODΦ25
ACV-V71Q2/HR1-B	50Hz	7.1	24.2	8.0	27.2	0.09	950	550	38-45	/	1470 305 X 690	1304 290 X 572	1390 70 X 560	1380 50 X 520	34/3.6	39/5.0	Φ15.9	Φ9.53	/	ODΦ25
ACV-V80Q2/HR1-B	50Hz	8.0	27.2	9.0	30.7															

Notes:

1.Power supply: 220~240V/1N for 50Hz, the above data is for AC motor model.

2.Cooling test condition: indoor side 27°C DB, 19°C WB outdoor side 35°C DB. Heating test condition: indoor side 20°C DB, 15°C WB outdoor side 7°C DB.

3.Sound level: measured at a point 1 m in front of the unit at a height of 1.5m. 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.

## 4-way Cassette (Compact Type) /Round-flow Cassette



## Specification

### 4-way Cassette Unit(Compact type)

Model name	Power type	Capacity				Power input	Air flow	Sound Level	ESP	Dimension(WxHxD)				Body Weight	Connecting pipe	Standard controller	
		Cooling	Heating	kW	kBtu/h	kW	kBtu/h	M³/h	CFM	DB(A)	Pa	Packing	Body	Panel packing	Panel		
ACV-V22Q4/HR1-C	50Hz	2.2	7.5	2.5	8.5	0.038	447	263	22~34	/	755 x 375 x 680	653 x 267 x 585	750 x 95 x 750	650 x 30 x 650	17.5 23	Φ9.52	Remote controller
ACV-V22Q4/HNR1-C	60Hz														17.5 23	Φ6.35	ODΦ25
ACV-V28Q4/HR1-C	50Hz	2.8	9.5	3.2	10.9	0.038	447	263	22~34	/	755 x 375 x 680	653 x 267 x 585	750 x 95 x 750	650 x 30 x 650	17.5 23	Φ12.7	
ACV-V28Q4/HNR1-C	60Hz														17.5 23		
ACV-V36Q4/HR1-C	50Hz	3.6	12.2	4.0	13.6	0.040	515	303	27~38	/	755 x 375 x 680	653 x 267 x 585	750 x 95 x 750	650 x 30 x 650	17.5 23		
ACV-V36Q4/HNR1-C	60Hz														17.5 23	Φ12.7	
ACV-V45Q4/HR1-C	50Hz	4.5	15.3	5.0	17	0.040	515	303	27~38	/	755 x 375 x 680	653 x 267 x 585	750 x 95 x 750	650 x 30 x 650	17.5 23		
ACV-V45Q4/HNR1-C	60Hz														17.5 23		

## Features

### Accessories

Plenum box	Air filter	EXV	Drain pump	AC motor	DC motor
/	Standard	Standard	Standard(built-in)	Standard	Optional

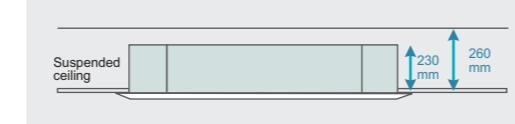
### Wide air delivering

Air flow is soft and smooth, air can be delivered to every corner without dead angle, it makes the room temperature distribution more balance.



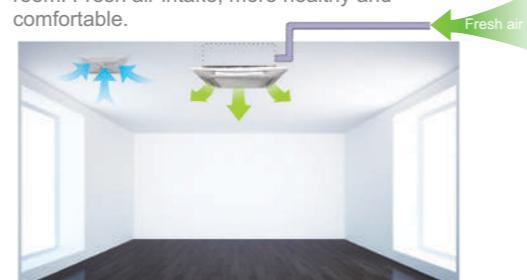
### Space saving installation

it has a slim body with 230mm height, it is specially suitable for low suspended ceiling rooms.(5.6~8.0kW)



### Fresh air intake

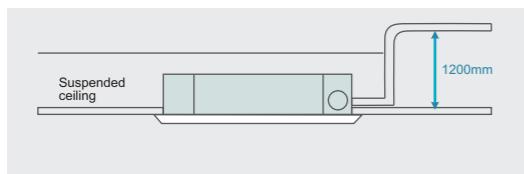
Four interfaces to connect with duct to another room. Fresh air intake, more healthy and comfortable.



### Built-in with drainage pump

Built-in with low noise long life drainage pump, Pumping head is 1200mm, flexible for drainage pipe design.

Note: The pumping head of 4-way cassette unit (compact type) is 700mm.



### Round-flow Cassette

Model name	Power type	Capacity				Power input	Air flow	Sound Level	ESP	Dimension(WxHxD)				Body Weight	Connecting pipe	Standard controller	
		Cooling	Heating	kW	kBtu/h	kW	kBtu/h	M³/h	CFM	DB(A)	Pa	Packing	Body	Panel packing	Panel		
ACV-V56QR/HR1	50Hz	5.6	19.1	6.3	21.4	0.043	860	500	32~39	/	920 x 265 x 985	833 x 232 x 900			24	30	Φ12.7
ACV-V56QR/HNR1	60Hz														24	30	Φ6.35
ACV-V71QR/HR1	50Hz	7.1	24.2	8.0	27.2	0.093	1200	700	35~39	/	1030 x 310 x 985	950 x 50 x 950			24	30	
ACV-V71QR/HNR1	60Hz														24	30	
ACV-V80QR/HR1	50Hz	8.0	27.2	8.8	30										28.5	35	
ACV-V80QR/HNR1	60Hz														28.5	35	
ACV-V90QR/HR1	50Hz	9.0	30.7	10.0	34.1										28.5	35	
ACV-V90QR/HNR1	60Hz														28.5	35	
ACV-V100QR/HR1	50Hz	10.0	34.1	11.0	37.5										28.5	35	
ACV-V100QR/HNR1	60Hz														28.5	35	
ACV-V112QR/HR1	50Hz	11.2	38.2	12.5	42.6	0.160	1400	820	37~41	/	920 x 310 x 985	833 x 286 x 900			28.5	35	Φ15.88
ACV-V112QR/HNR1	60Hz														28.5	35	Φ9.52
ACV-V125QR/HR1	50Hz	12.5	42.6	14.0	47.7										28.5	35	
ACV-V125QR/HNR1	60Hz														28.5	35	
ACV-V140QR/HR1	50Hz	14.0	47.7	15.0	51.1										28.5	35	
ACV-V140QR/HNR1	60Hz														28.5	35	
ACV-V160QR/HR1	50Hz	16.0	54.5	17.0	58										28.5	35	
ACV-V160QR/HNR1	60Hz														28.5	35	

Notes:

1.Power supply: 220~240V/1N for 50Hz; 208~230V/1N for 60Hz, the above data is for AC motor model.

2.Cooling test condition: indoor side 27°C DB, 19°C WB outdoor side 35°C DB. Heating test condition: indoor side 20°C DB, 15°C WB outdoor side 7°C DB.

3.Sound level: measured at a point 1 m in front of the unit at a height of 1.5m. During actual operation, these values are normally somewhat higher as a result of ambient conditions.

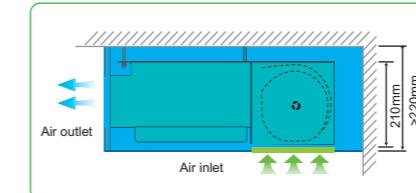
4.The above data may be changed without notice for future improvement on quality and performance.

# Short Ceiling Concealed Ducted Unit



## Slim body, easy to install

Has slim body with 210mm height, it is specially suitable for low suspended ceiling rooms.



## DC fan motor is optional



## Integrated design of motor and motor bracket, lower noise



## Drain pump is optional

Pumping head is 700mm.



## Features

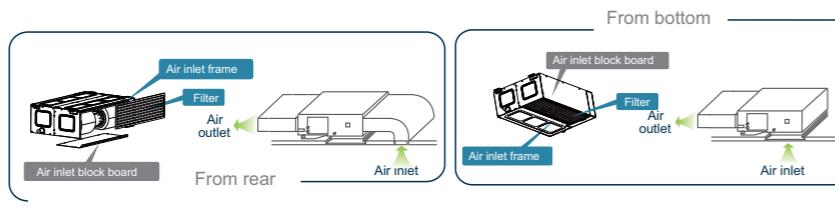
### Accessories

Plenum box	Air filter	EXV	Drain pump	AC motor	DC motor
Standard	Optional	Standard(built-in)	Optional	Standard	Optional



## Flexible installation

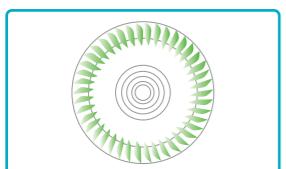
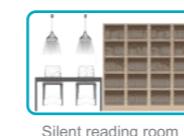
Air return method is optional by actual installation, from rear or from bottom.



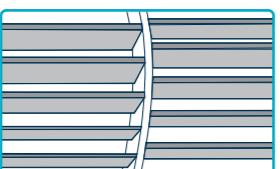
Big air flow low noise centrifugal fan wheel

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 24 dB(A), let users to enjoy the comfort, sleep without any disturbance.

20dB(A) → 30dB(A)



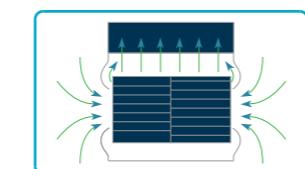
Special resin material fan wheel.



All vanes are dislocation distribution to offset sound wave, so that the noise can be reduced.



High efficiency low noise motor, motor and support frame with rubber ring isolation, can absorb vibration and reduce noise.



Air inlet of fan wheel casing is arch curved design; it can reduce air flow's disturbance, make air flow smoother to reduce noise.

## Specification

Model name	Power type	Capacity				Rated input	Air flow	Sound Level	ESP	Dimension(WxHxD)				Body Weight		Connecting pipe			Standard controller
		Cooling		Heating						Packing	Body	Panel packing	Panel	Net	Gross	Gas	Liquid	Drain	
		kW	kBTu/h	kW	kBTu/h	Pa	mm	mm	mm	kg	kg	mm	mm	kg	kg	mm	mm	mm	
ACV-V22TA/HR1-C	50Hz	2.2	7.5	2.5	8.5	0.08	450	260	24~29	910 x 240 x 510	814 x 210 x 467	/	/	16.0 16.0 16.5 16.5 1110 x 240 x 510	18.5 18.5 19.0 19.0 1010 x 210 x 467	Φ9.52 Φ6.35 Φ12.7 21.0 25.5	ODΦ25 Wired controller		
ACV-V22TA/HNR1-C	60Hz	2.8	9.5	3.2	10.9		550	324	25~32										
ACV-V28TA/HR1-C	50Hz	3.6	12.2	4.0	13.6		620	360	32~37										
ACV-V28TA/HNR1-C	60Hz	4.5	15.3	5.0	17		600	380	32~37										
ACV-V36TA/HR1-C	50Hz	5.6	19.1	6.3	21.4		800	520	28~38										
ACV-V36TA/HNR1-C	60Hz	7.1	24.2	8.0	27.2		1000	640	30~39										
ACV-V45TA/HR1-C	50Hz	7.1	24.2	8.0	27.2		1310 x 240 x 510	1214 x 210 x 467	30~39										
ACV-V45TA/HNR1-C	60Hz	7.1	24.2	8.0	27.2		1310 x 240 x 510	1214 x 210 x 467	30~39										
ACV-V56TA/HR1-C	50Hz	7.1	24.2	8.0	27.2		1310 x 240 x 510	1214 x 210 x 467	30~39										
ACV-V56TA/HNR1-C	60Hz	7.1	24.2	8.0	27.2		1310 x 240 x 510	1214 x 210 x 467	30~39										
ACV-V71TA/HR1-C	50Hz	7.1	24.2	8.0	27.2		1310 x 240 x 510	1214 x 210 x 467	30~39										
ACV-V71TA/HNR1-C	60Hz	7.1	24.2	8.0	27.2		1310 x 240 x 510	1214 x 210 x 467	30~39										

### Notes:

- 1.Power supply: 220~240V/1N for 50Hz; 208~230V/1N for 60Hz, the above data is for AC motor model.
- 2.Cooling test condition: indoor side 27°C DB, 19°C WB outdoor side 35°C DB. Heating test condition: indoor side 20°C DB, 15°C WB outdoor side 7°C DB.
- 3.Sound level: measured at a point 1 m in front of the unit at a height of 1.5m. 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.

# Medium ESP Ducted Unit

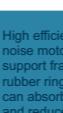


## Whole unit low noise design, silent operation

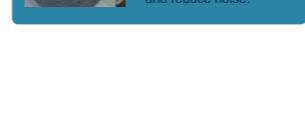
Using multiple noise reduction technology, including the design of high efficiency low noise motor, aviation fan wheel, low vibration wheel casing, unique design, the inner wall configuration with high quality insulation materials, and so on, to make the units running in a low noise condition.



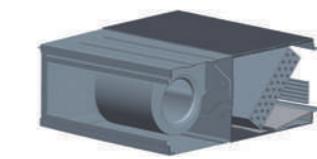
Aviation fan wheel, designed by the industry's top design software.



High efficiency low noise motor, motor and support frame with rubber ring isolation, can absorb vibration and reduce noise.

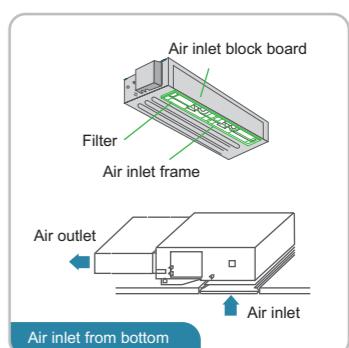
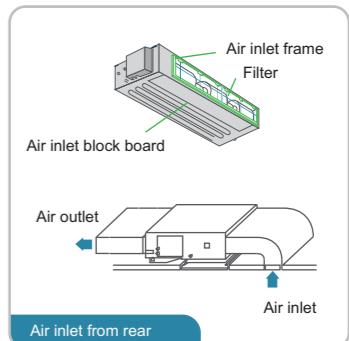


Wheel casing streamline design, reduce the airflow disturbance to lower the noise.



## Two air return installation methods

Air return from rear or bottom is easy to change on site, convenient for installation.



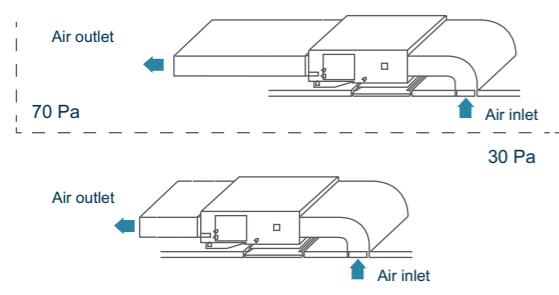
## Features

### Accessories

Plenum box	Air filter	EXV	Drain pump	AC motor	DC motor
Standard	Standard	Standard	Optional	Standard	Optional

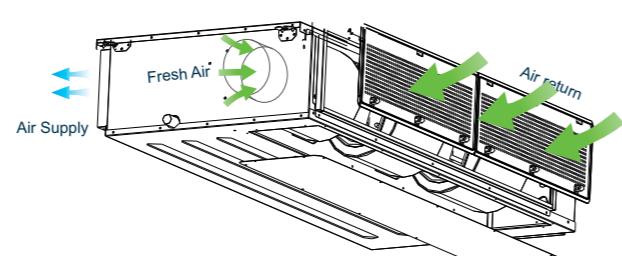
### Static pressure

70Pa ESP is standard, suitable for long distance air supply, 30Pa is optional(can be set on site), suitable for low noise requirement rooms.



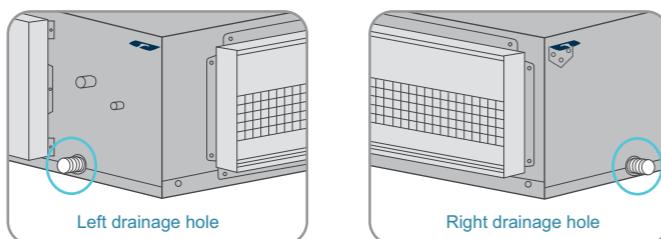
### Fresh air intake

A reserved outside air intake port allows outdoor air to be introduced directly into the unit, no need for a separate ventilation system.



### 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.



## DC fan motor is optional

The power consumption of DC fan motor can be reduced greatly in comparison to corresponding AC type.

## Specification

Model name	Power type	Capacity			Rated input	Air flow	Sound Level	ESP	Dimension(WxHxD)			Body Weight	Connecting pipe	Standard controller
		Cooling kW	kBtu/h	Heating kW	kBtu/h	Packing mm	Body mm	Panel packing mm	Panel mm	Net kg	Gross kg	Gas mm	Liquid mm	Drain mm
ACV-V71TB/HR1-B	50Hz	7.1	24.2	8.0	27.2					33	37			
ACV-V71TB/HNR1-B	60Hz									33	37			
ACV-V80TB/HR1-B	50Hz	8.0	27.2	9.0	30.7					46	50			
ACV-V80TB/HNR1-B	60Hz									46	50			
ACV-V90TB/HR1-B	50Hz	9.0	30.7	10.0	34.1					46	50			
ACV-V90TB/HNR1-B	60Hz									46	50			
ACV-V100TB/HR1-B	50Hz	10.0	34.1	11.0	37.5					46	50			
ACV-V100TB/HNR1-B	60Hz									46	50			
ACV-V120TB/HR1-B	50Hz	12.0	40.9	13.0	44.3					46	50			
ACV-V120TB/HNR1-B	60Hz									46	50			
ACV-V150TB/HR1-B	50Hz	15.0	51.1	17.0	58					46	50			
ACV-V150TB/HNR1-B	60Hz													

### Notes:

1.Power supply: 220~240V/1N for 50Hz; 208~230V/1N for 60Hz, the above data is for AC motor model.

2.Cooling test condition: indoor side 27 °C DB, 15°C WB outdoor side 35 °C DB. Heating test condition: indoor side 20 °C DB, 15°C WB outdoor side 7 °C DB.

3.Sound level: measured at a point 1 m in front of the unit at a height of 1.5m. During actual operation, these values are normally somewhat higher as a result of ambient conditions.

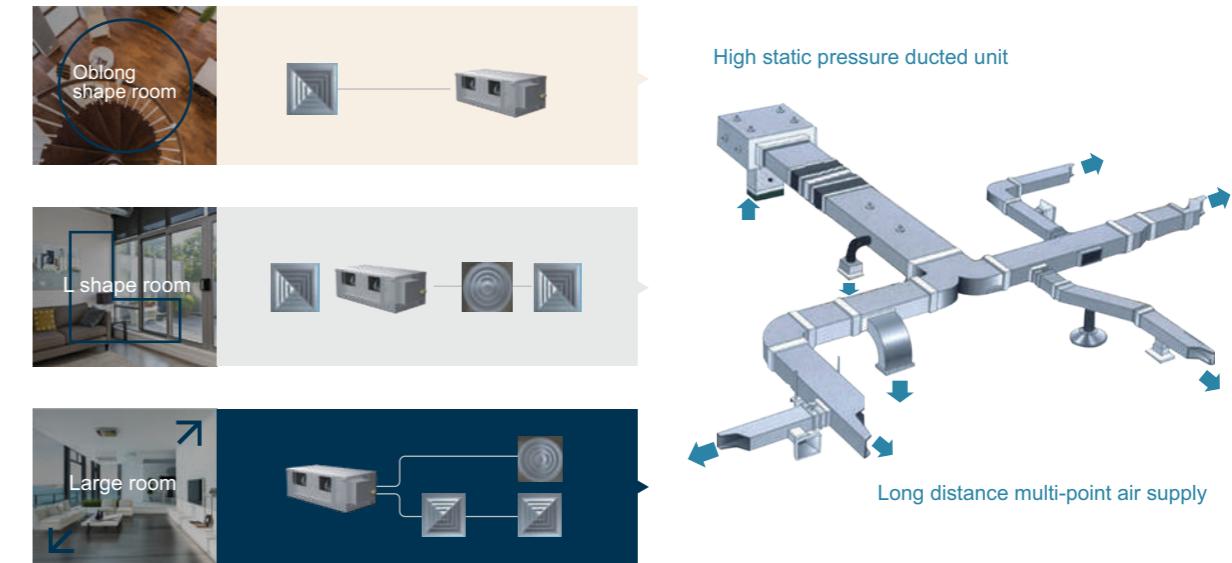
4.The above data may be changed without notice for future improvement on quality and performance.

# High ESP Ducted Unit



## High static pressure

Big air flow with high static pressure, easy for large rooms duct design.  
Suitable for different shape of rooms.



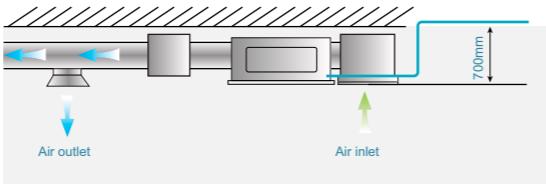
## Features

### Accessories

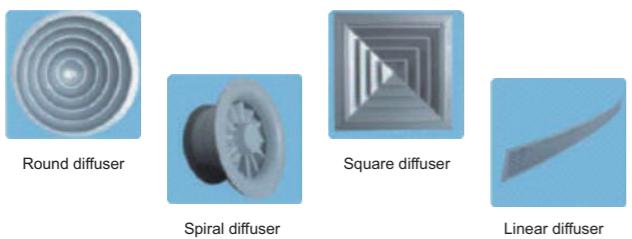
Plenum box	Air filter	EXV	Drain pump	AC motor	DC motor
Standard	Standard	Standard	Optional	Standard	/

### Optional water pump

Slim body, saving suspended ceiling spaces. And water pump is optional, pump head up to 700mm



### Can be used with various diffusers



Used with various diffusers, meet for different kinds of decoration.

## Specification

Model name	Power type	Capacity				Power input kW	Air flow M³/h	Sound Level DB(A)	ESP Pa	Dimension(WxHxD)		Body Weight kg	Connecting pipe Gas mm Liquid mm Drain mm	Standard controller		
		Cooling		Heating						Packing mm	Body mm					
		kW	kBTu/h	kW	kBTu/h											
ACV-V71TH/HR1-B	50Hz	7.1	24.2	7.8	26.6							1490 x 325 x 720	1445 x 260 x 680	46	50	
ACV-V71TH/HNR1-B	60Hz															
ACV-V80TH/HR1-B	50Hz	8.0	27.2	8.8	30											
ACV-V80TH/HNR1-B	60Hz															
ACV-V90TH/HR1-B	50Hz	9.0	30.7	10.0	34.1											
ACV-V90TH/HNR1-B	60Hz															
ACV-V100TH/HR1-B	50Hz	10.0	34.1	11.0	37.5											
ACV-V100TH/HNR1-B	60Hz															
ACV-V120TH/HR1-B	50Hz	12.0	40.9	13.0	44.3											
ACV-V120TH/HNR1-B	60Hz															
ACV-V150TH/HR1-B	50Hz	15.0	51.1	17.0	58.0											
ACV-V150TH/HNR1-B	60Hz															
ACV-V200TH/HR1-B	50Hz	20.0	68.2	22.0	75.0	1.72	4000	2350	45-53							
ACV-V200TH/HNR1-B	60Hz															
GCHV-D200TH/HR1-F310	50/60Hz	20.0	68.2	22.0	75.0	1.20	3750	2200	45-50							
ACV-V250TH/HR1-B	50Hz	25.0	85.3	27.5	93.8	1.72	4200	2470	45-54							
ACV-V250TH/HNR1-B	60Hz															
GCHV-D250TH/HR1-F310	50/60Hz	25.0	85.3	27.5	93.8	1.20	3750	2200	46-51							
ACV-V280TH/HR1-B	50Hz	28.0	95.5	30.8	105.0	1.72	4400	2580	45-55							
ACV-V280TH/HNR1-B	60Hz															
GCHV-D280TH/HR1-F310	50/60Hz	28.0	95.5	30.8	105.0	1.30	4100	2400	48-52							
ACV-V450TH/HZR1-B	50Hz	45.0	153.5	50.0	170.6	2.60	6000	3520	60							
ACV-V450TH/HXR1-B	60Hz															
ACV-V560TH/HR1-B	50Hz	56.0	191.0	63.0	214.9	3.40	8000	4700	64							
ACV-V560TH/HXR1-B	60Hz															

### Notes:

- Power supply: 220~240V/1N for 50Hz; 208~230V/1N for 60Hz.
- Cooling test condition: indoor side 27°C DB, 19°C WB outdoor side 35°C DB. Heating test condition: indoor side 20°C DB, 15°C WB outdoor side 7°C DB.
- Sound level: measured at a point 1 m in front of the unit at a height of 1.5m. 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.

# Wall Mounted Unit



## Features

### Accessories

Plenum box	Air filter	EXV	Drain pump	AC motor	DC motor
/	Standard	Standard(built-in)	/	/	Standard

### Air supply smoothly

Cross flow fan, In Cooling mode, cold air is blown from horizontal. In heating mode, warm air is blown from vertical.

### 2 panels can be chosen, suitable for all kinds of decoration style

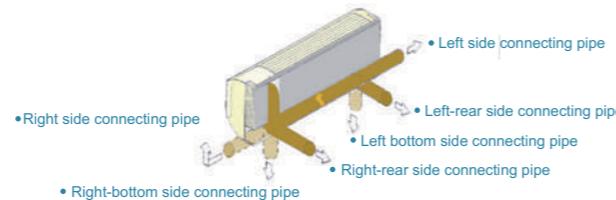
Simple, elegant, stylish, mirror design, suitable for all kinds of decoration style.

### Flexible in installation

Refrigerant pipe can be connected from 3 directions.

### Hotel card function

Hotel card interface is standard, which are designed to save energy by only running appliances while guest are present in their room.



## Specification

Model	GCHV-D22G/HR1-GSB	GCHV-D28G/HR1-GSB	GCHV-D36G/HR1-GSB	GCHV-D45G/HR1-GSC	GCHV-D56G/HR1-GSC	GCHV-D71G/HR1-GSC
Power Supply	220-240V/1N/50&60Hz	220-240V/1N/50&60Hz	220-240V/1N/50&60Hz	220-240V/1N/50&60Hz	220-240V/1N/50&60Hz	220-240V/1N/50&60Hz
Capacity	Cooling kW	2.2	2.8	3.6	4.5	5.6
	Heating kW	2.5	3.2	4.0	5.0	6.3
Power input	W	15	15	18	20	23
Fan motor	Type	DC	DC	DC	DC	DC
	Speed (Hi/Med/Low) r/min	1000/900/870/850	1000/900/870/850	1100/1000/950/900	1050/950/900/850	1100/1000/950/900
Air flow	m³/h	440/380/360/350	440/380/360/350	500/440/415/380	655/610/565/525	720/645/580/560
Sound Pressure level	dB(A)	24~33	24~33	27~36	29~38	32~42
Body dimension (WxHxD)	Net mm	864x300x200	864x300x200	864x300x200	972x320x215	972x320x215
	Packing mm	945x375x290	945x375x290	945x375x290	1060x400x310	1060x400x310
Body weight	Net/Gross kg	9.5/12	9.5/12	9.5/12	11.5/14	11.5/14
Refrigerant type		R410A	R410A	R410A	R410A	R410A
Throttle type		EXV	EXV	EXV	EXV	EXV
Liquid pipe/Gas pipe	mm	Φ6.35/ Φ9.52	Φ6.35/ Φ9.52	Φ6.35/ Φ12.7	Φ6.35/ Φ12.7	Φ9.52/ Φ15.88
Drainage water pipe (Outer diameter)	mm	Φ20	Φ20	Φ20	Φ20	Φ20
Operation temperature	°C	16~32	16~32	16~32	16~32	16~32

Notes:

1.Power supply: 220~240V/1N for 50Hz;208~230V/1N for 60Hz.

2.Cooling test condition: indoor side 27°C DB, 19°C WB outdoor side 35°C DB. Heating test condition: indoor side 20°C DB, 15°C WB outdoor side 7°C DB.

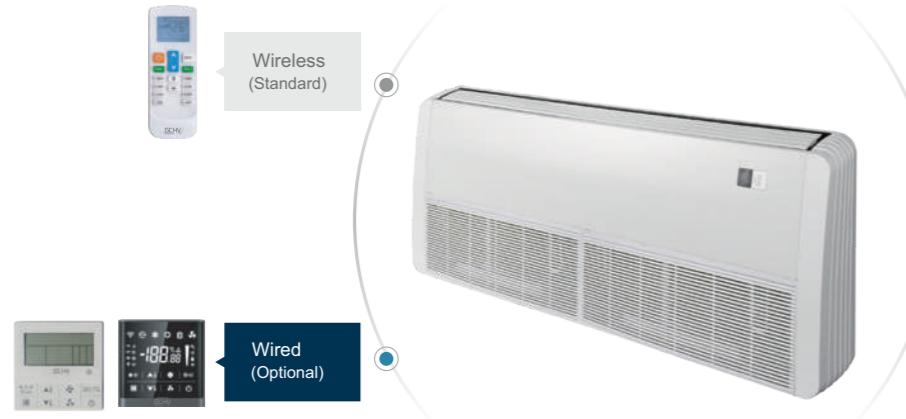
3.Sound level: measured at a point 1 m in front of the unit at a height of 1.5m. During actual operation, these values are normally somewhat higher as a result of ambient conditions.

4.The above data may be changed without notice for future improvement on quality and performance.

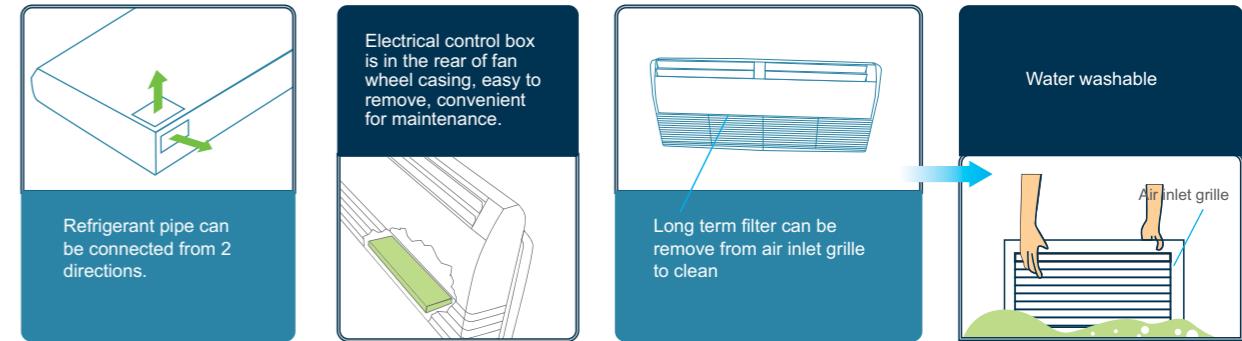
## Wall Mounted Unit



# Floor Ceiling Unit



## Easy for installation



## Features

### Accessories

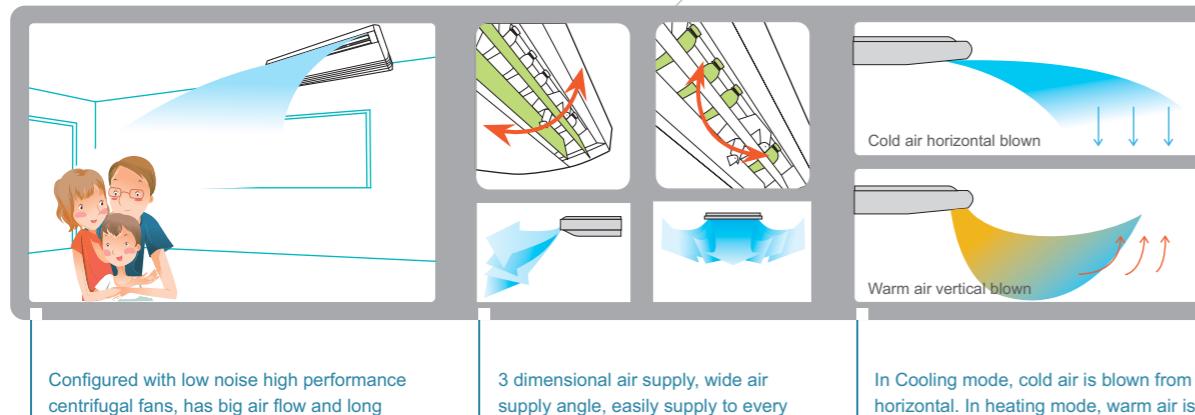
Plenum box	Air filter	EXV	Drain pump	AC motor	DC motor
/	Standard	Standard(built-in)	Optional	Standard	Optional

### Flexible installation

According to actual project needs, choose ceiling suspended installation or floor standing installation.

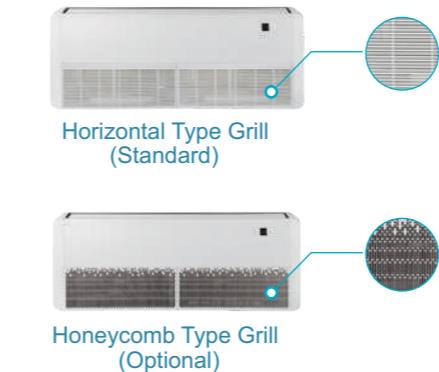


### Wide angle air supply



In Cooling mode, cold air is blown from horizontal. In heating mode, warm air is blown from vertical.

## Two kinds of grilles for selection



## Floor Ceiling Unit



## Specification

Model name	Power type	Capacity		Power input	Air flow	Sound Level	Dimension(WxHxD)		Body Weight		Connecting pipe		Standard controller	
		Cooling	Heating				kW	kBtu/h	kW	kBtu/h	Gas	Liquid	Drain	
GCHV-V36UA/HR1-LDBA	50Hz	3.6	12.3	4.0	13.7	37~42								
	60Hz						0.085		620	360				
GCHV-V36UA/HNR1-LDBA	50Hz	4.5	15.3	5.0	17									
	60Hz						0.110		800	470				
GCHV-V45UA/HR1-LDBA	50Hz	5.6	19.1	6.3	21.4	37~47								
	60Hz						0.095		1200	706				
GCHV-V56UA/HR1-LDBA	50Hz	7.1	24.2	8.0	27.2									
	60Hz						0.160		1600	940				
GCHV-V58UA/HNR1-LDBA	50Hz	8.0	27.2	8.8	30	45~51								
	60Hz						0.200		2000	1177				
GCHV-V71UA/HR1-LDBB	50Hz	9.0	30.7	10.0	34.1	45~50								
	60Hz						0.120		1400	840				
GCHV-V71UA/HNR1-LDBB	50Hz	11.2	38.2	12.5	42.6									
	60Hz						0.220		2000	1177				
GCHV-V80UA/HR1-LDBB	50Hz	14.0	47.7	15.0	51.1	45~54								
	60Hz						0.280		2400	1440				
GCHV-V80UA/HNR1-LDBC	50Hz	16.0	54.5	17.0	58									
	60Hz						0.320		2800	1680				
GCHV-V160UA/HR1-LDBC	50Hz													
	60Hz													
GCHV-V160UA/HNR1-LDBC	50Hz													
	60Hz													

Notes:

1. Power supply: 220~240V/1N for 50Hz; 208~230V/1N for 60Hz, the above data is for AC motor model.

2. Cooling test condition: indoor side 27°C DB, 19°C WB outdoor side 35°C DB. Heating test condition: indoor side 20°C DB, 15°C WB outdoor side 7°C DB.

3. Sound level: measured at a point 1 m in front of the unit at a height of 1.5m. During actual operation, these values are normally somewhat higher as a result of ambient conditions.

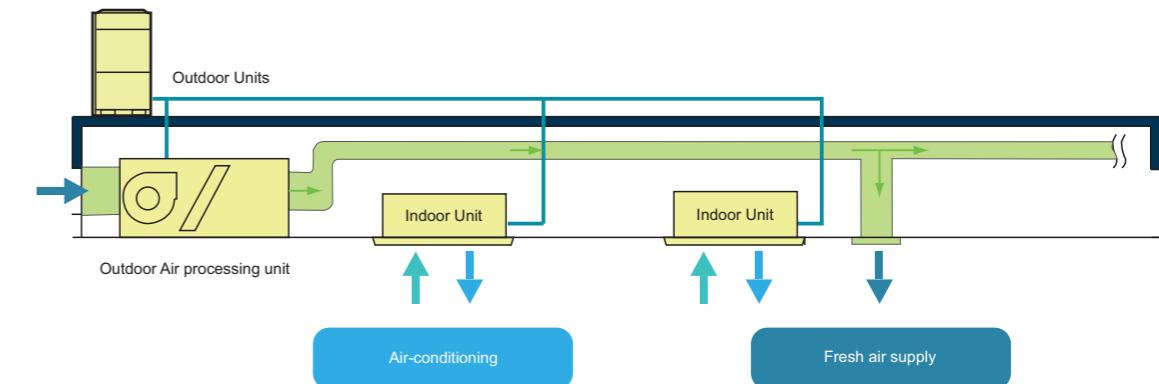
4. The above data may be changed without notice for future improvement on quality and performance.

# Fresh Air Processor



## Innovative air supply technology for excellent room temperature control

Fresh air unit can be connected with other type indoor units.  
Layout Example:



Notes:1. When VRF system connect fresh air indoor unit and other type indoor units together, the capacity combination ratio between indoor unit and outdoor unit should within 100%  
2. Fresh air unit capacity can't bigger than 30% of total indoor units capacity.

## Features

### Accessories

Plenum box	Air filter	EXV	Drain pump	AC motor	DC motor
Standard	Optional	Standard	Optional	Standard	/

### Healthy and comfortable

Fresh air is imported, provides a healthy and comfortable living environment.

### 100% Fresh air processing unit

Both fresh air filtration and heating/cooling can be achieved in a single system.  
Indoor units and fresh air processing unit can be connected to the same refrigerant system, increase design flexibility and greatly reduce total system costs.

### High external static pressure

External static pressure can be up to 300Pa for more flexible duct applications.

## Specification

Model name	Power type	Capacity				Power input	Air flow	Sound Level	ESP	Dimension(WxHxD)			Body Weight	Connecting pipe	Standard controller			
		Cooling		Heating						Packing	Body	Panel packing	Panel					
		kW	kBTu/h	kW	kBTu/h	mm	mm	mm	mm	mm	mm	mm	mm	kg	mm	ODΦ25		
ACV-V140TF/HR1-B	50Hz	14.0	47.7	9.0	30.7	0.45	1400	820	42~48	220	1245 x 445 x 655	1190 x 370 x 620	/	47	51	Φ15.88	Φ9.52	ODΦ25
	60Hz																	
ACV-V224TF/HR1-B	50Hz	22.4	76.4	16.0	54.5	1.20	2000	1170	45~52	220	1510 x 490 x 870	1465 x 448 x 811	/	102	106	Φ22.2	Φ12.7	ODΦ30
	60Hz																	
ACV-V280TF/HR1-B	50Hz	28.0	95.5	20.0	68.2	1.20	2800	1640	45~52	220	1510 x 490 x 870	1465 x 448 x 811	/	102	106	Φ28.6	Φ15.88	ODΦ32
	60Hz																	
ACV-V450TF/HZR1	50Hz	45.0	153.5	31.4	107.1	1.60	4000	3520	58	300	2200 x 710 x 1018	2165 x 676 x 916	/	222	260	Φ28.6	Φ15.88	ODΦ32
	60Hz																	
ACV-V560TF/HZR1	50Hz	56.0	191.0	39.0	133.0	2.50	6000	4700	62	300	2200 x 710 x 1018	2165 x 676 x 916	/	222	260	Φ28.6	Φ15.88	ODΦ32
	60Hz																	

Notes:1.45kW & 56kW units' power supply are 380~415V/3N for 50Hz and 208~230V/3N for 60Hz, the others' power supply is 220~240V/1N for 50Hz and 208~230V/1N for 60Hz

2.Cooling test condition: Indoor and outdoor side 33°C DB, 28°C WB. Heating test condition: Indoor and outdoor side 0°C CB, -2.9°C WB.

3.Sound level: measured at a point 1 m in front of the unit at a height of 1.5m. 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.

# Heat Recovery Ventilator



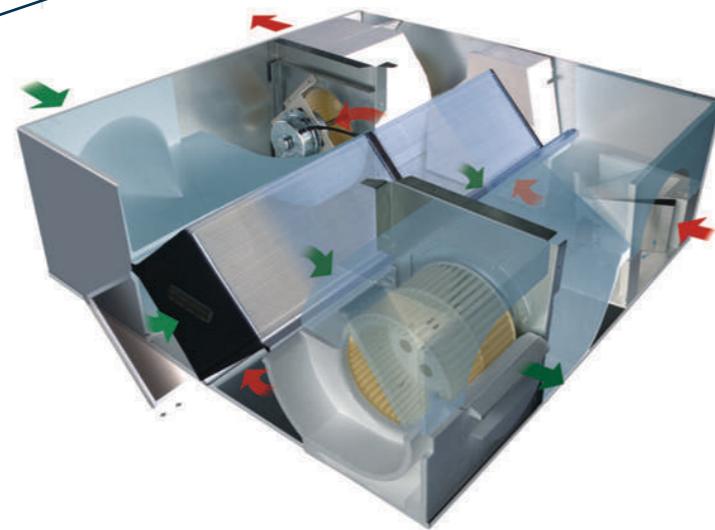
## Features



When air flow formed by exhaust air and outdoor air through the heat exchanged core in cross way, because of temperature difference in the two sides of flat partition board. the heat transmission is occurred.

In summer, outdoor air acquire cooling from air exhaust to decrease environment temperature; In winter, outdoor air acquire heating from air exhaust to increase temperature, that is to say, it realizing the energy recovery during air exhaust process to exchange the heating in heat exchanged core to outdoor air.

Application for: business office buildings, hotels, restaurants, meeting rooms, exhibition centres, leisure centres, workshop and other places.



## Suspended type specification

Model name	Air flow M <sup>3</sup> /h	ESP Pa	Power input W	Power supply (V)	Temperature exchanging efficiency(%)		Enthalpy exchanging efficiency(%)		Noise dB(A)	Body dimension (WxDxH) mm	Weight kg
					Cooling	Heating	Cooling	Heating			
QR-X02D	200	75	65	220V/1N/50Hz	60.0	65.0	50.0	55.0	30	666x580x264	25
QR-X03D	300	75	130		60.0	65.0	50.0	55.0	33	744x599x270	27
QR-X04D	400	80	200		60.0	65.0	50.0	55.0	35	744x804x270	30
QR-X05D	500	80	220		60.0	65.0	50.0	55.0	38	824x904x270	41
QR-X06D	600	90	242		60.0	65.0	50.0	55.0	40	824x904x270	42
QR-X08D	800	100	410		60.0	65.0	50.0	55.0	42	1116x884x388	68
QR-X10D	1000	150	510		60.0	65.0	50.0	55.0	43	1116x1134x388	82
QR-X13D	1300	150	530		60.0	65.0	50.0	55.0	45	1116x1134x388	82
QR-X15DS	1500	160	1000	380V/3N/50Hz	60.0	65.0	50.0	55.0	51	1600x1200x540	200
QR-X20DS	2000	170	1200		60.0	65.0	50.0	55.0	53	1650x1400x540	225
QR-X25DS	2500	180	2000		60.0	65.0	50.0	55.0	55	1430x1610x600	240
QR-X30DS	3000	200	2100		60.0	65.0	50.0	55.0	57	1600x1700x640	270
QR-X40DS	4000	220	2400		60.0	65.0	50.0	55.0	60	1330x1725x1050	265
QR-X50DS	5000	240	3000		60.0	65.0	50.0	55.0	61	1660x1820x1050	280
QR-X60WS	6000	290	3600		60.0	65.0	50.0	55.0	70	1660x1820x1050	310
QR-X70WS	7000	310	4200		60.0	65.0	50.0	55.0	73	2060x1660x1168	360
QR-X80WS	8000	320	6000		60.0	65.0	50.0	55.0	74	2060x1660x1168	382
QR-X90WS	9000	340	7500		60.0	65.0	50.0	55.0	77	2310x1900x1200	500
QR-X100WS	10000	400	8000		60.0	65.0	50.0	55.0	78	2310x1900x1200	534

Notes: 1.Cooling test condition: indoor side 27°C DB, 19.5° WB; outdoor fresh air 35°C DB, 28°C;  
2.Heating test condition: indoor side 21°C DB, 13° WB outdoor fresh air 5°C DB, 2°C;  
3.The above data may be changed without notice for future improvement on quality and performance.

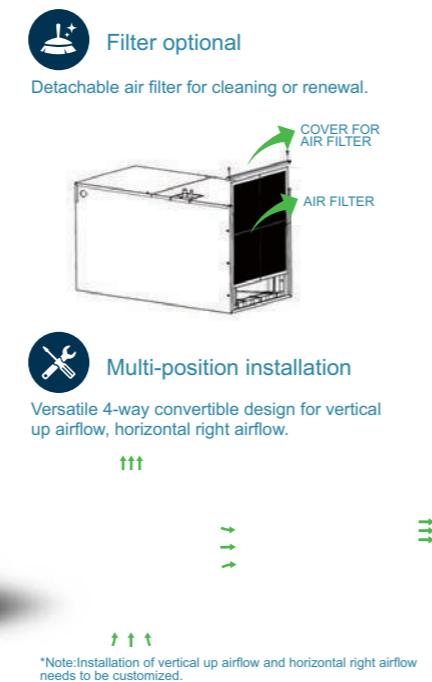
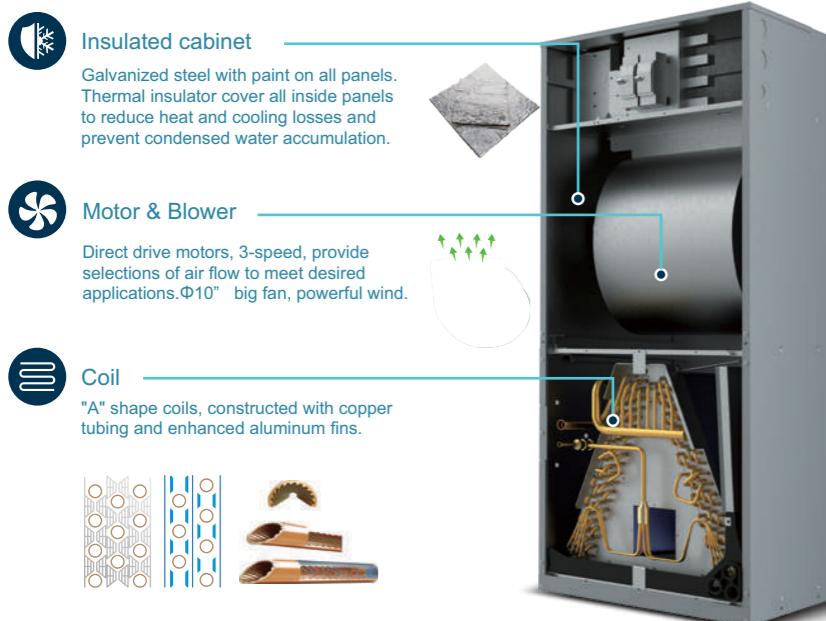
# Heat Recovery Ventilator



# Air Handler Unit



## Features



## Specification

Model name	Power type	Capacity				Power input	Air flow	Sound Level	ESP	Dimension(WxHxD)		Body Weight	Connecting pipe			Standard controller		
		Cooling	Heating	kW	kBtu/h					Body	Packing	Net	Gross	Gas	Liquid	Drain		
ACV-V71AH/HNR1	60Hz	7.1	24.1	8.0	27.2	290	1500	882.3	51~54	25	774x520x460	834x520x565	36	39	Ø15.88	Ø9.52	Ø20	Wired Controller
ACV-V105AH/HNR1	60Hz	10.5	35.7	11.5	39.1	290	1500	882.3	51~54	37	774x520x460	834x520x565	36	39	Ø15.88	Ø9.52	Ø20	Wired Controller
ACV-V160AH/HNR1	60Hz	16.0	54.4	18.0	61.2	517	2500	1470.6	57~60	50	970x550x500	1030x560x595	48	52	Ø15.88	Ø9.52	Ø20	Wired Controller

Notes: 1.Power supply:208-230V/1N/60Hz;

2.Cooling test condition: Indoor side 27°C DB, 19°C WB, outdoor side 35°C DB. Heating test condition: Indoor side 20°C DB, 15°C WB, Outdoor side 7°C DB;

3.Sound level: measured at a point 1 m front of the unit at a height of 1.5m. 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.

## Controllers & Software



## Wireless Controllers



## Wired Controllers



## Touch Screen Wired Controller

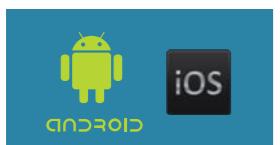


## Simple Centralized Controller



## Smart Manager

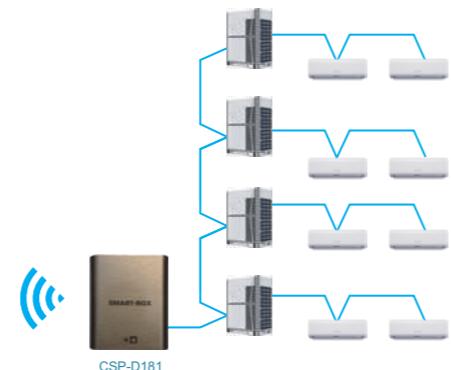
- Available on iOS and Android



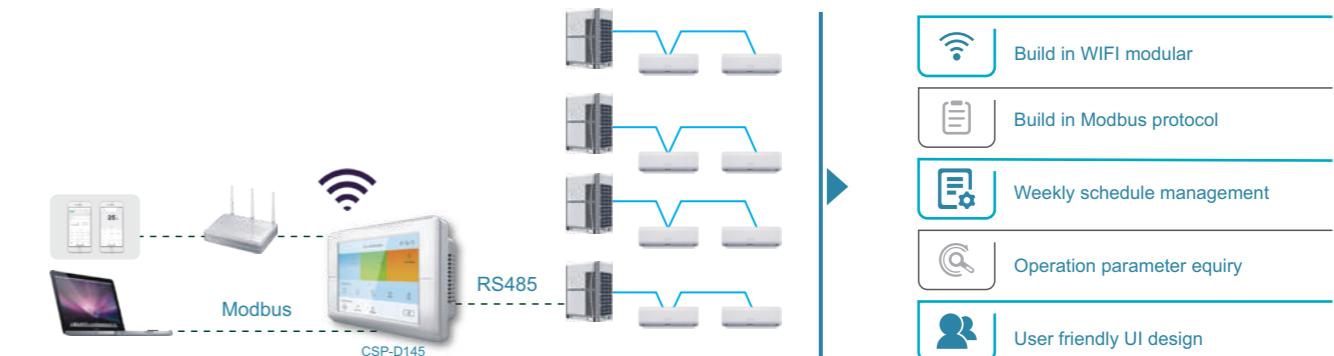
- Remote control via cloud server



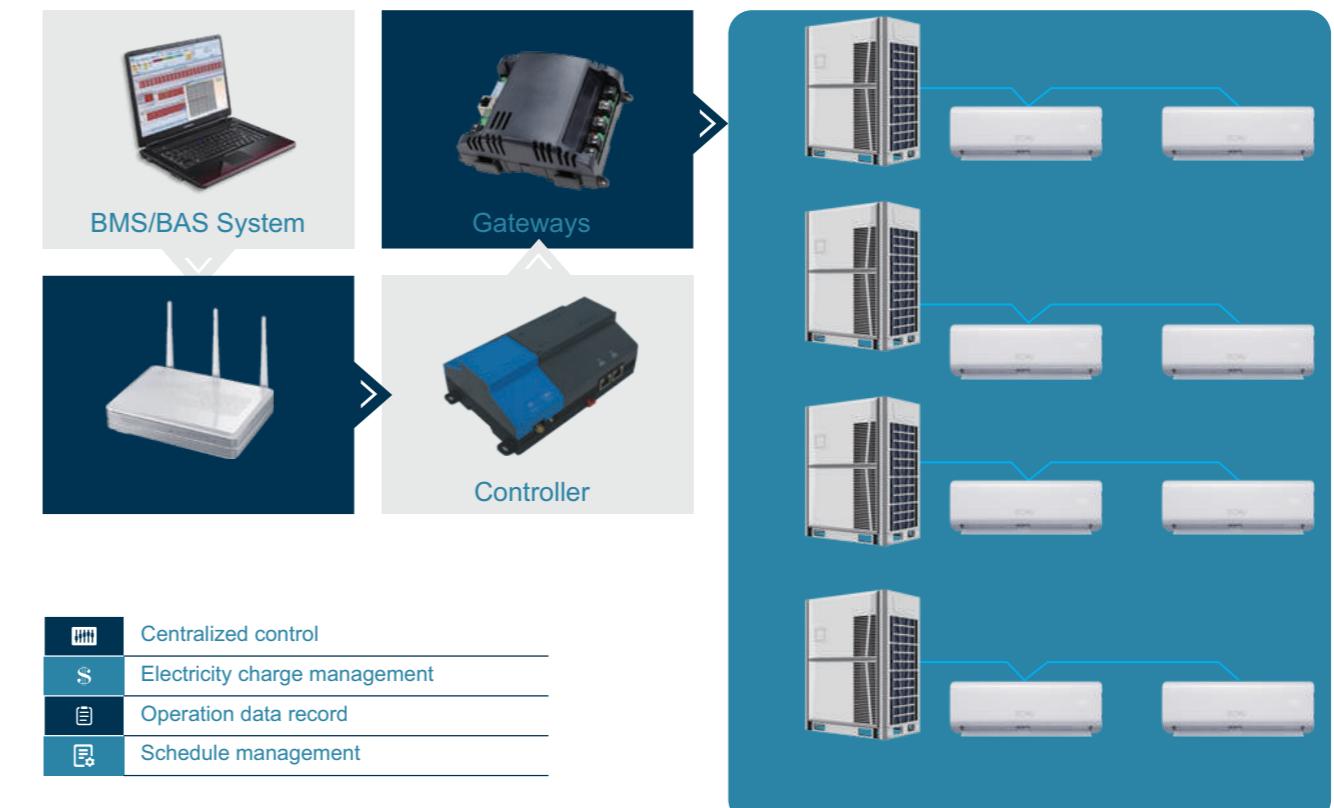
- Single unit controller or group control
- Weekly schedule management
- 100 indoor units can be controlled
- Operation parameter enquiry



## Touch Screen Centralized Controller

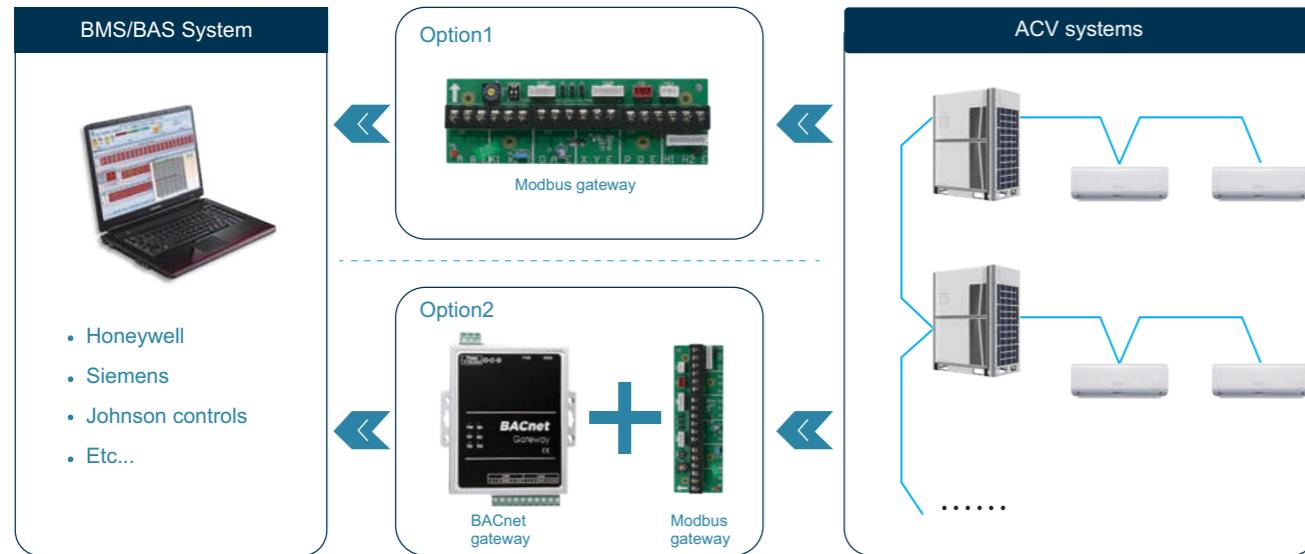


## ACV-NET(Centralized Control System)

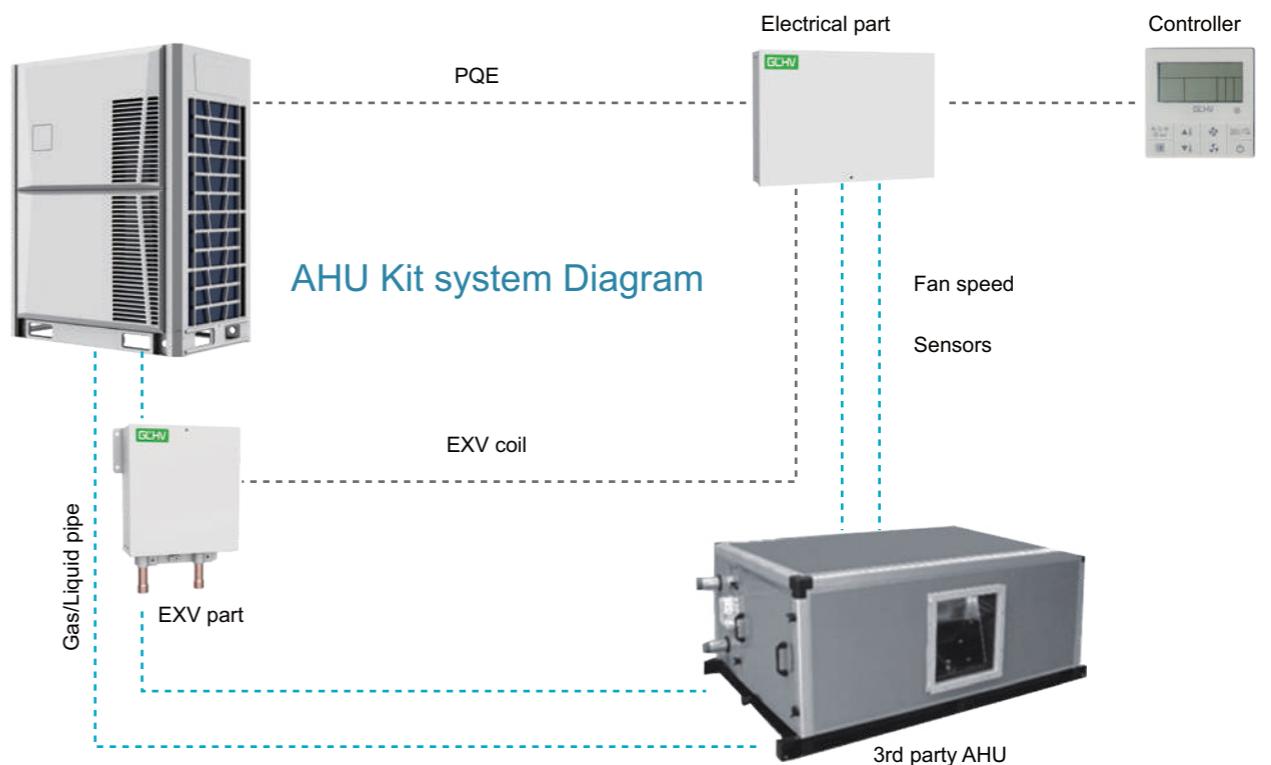
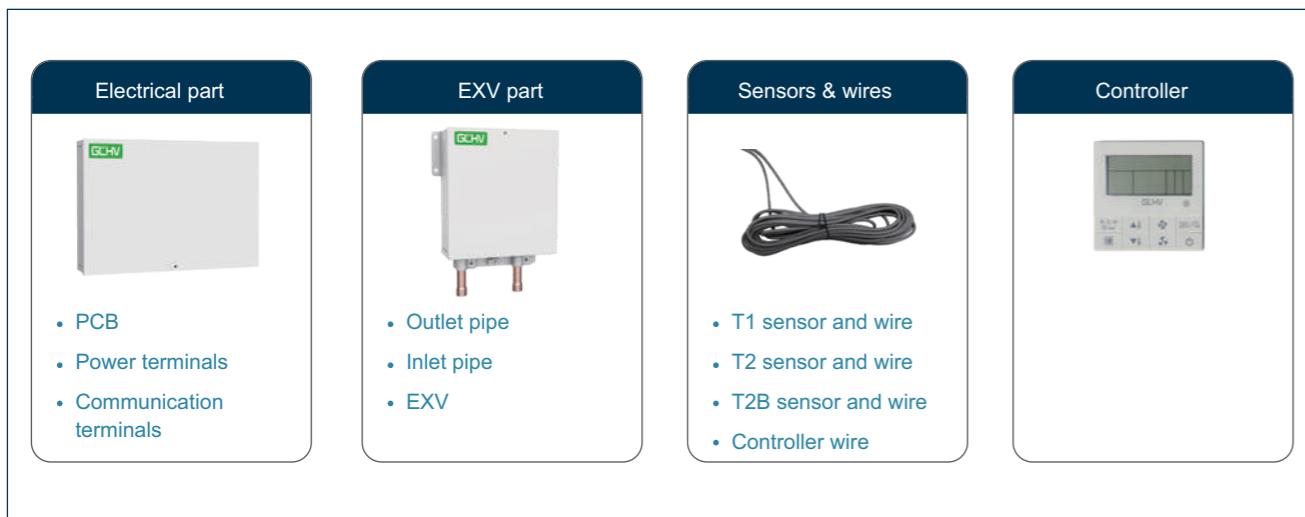


# BMS Gateway

- Modbus gateway | Independent Modbus Box or built-in with outdoor unit.
- BACnet gateway | Connect with Modbus gateway, use BACnet IP protocol.



## AHU Connection Kit



## VRF Selection Software

The selection software provides a comprehensive selection of system design reports and calculations. Base on the units selected, the software produces detailed system layout and piping requirement calculations, greatly improves the work efficiency.

