

DC INVERTER VRF SYSTEM Product Catalogue

T1 Condition





Giwee Company

- No. 28, Eastern Industrial Park, Lishui Town, Nanhai District,
 Feeban City Curnadona Province China B C: E22244.
- isc@aiwee.com

 isc@aiwee.com
- www.aiwee
- 06 757 00701027
- M 86-757-8878982

A Carrier Company

Note: The specifications of this catalog 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 catalog is merely informative.



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 is a Carrier company, and Carrier is the leading global provider of innovative healthy, safe, sustainable and intelligent building and cold chain solutions.

Giwee covers an area of 167,000 square meters, with more than 120,000 square meters of plants and 15 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, which enabled it become the top 3 central air conditioner supplier in china.

Commercial air conditioning division established

2004

Honored of "National hightech enterprises"

2012

Full DC inverter VRF CMV-X series launched

2014

Mechanical and Electrical Installation Level 2 Qualification

2017

Giwee Company Established

2020

2002 Enter central air conditioning industry

2011

CAC Company Established

2013

New R&D office building and VRF plant put into operation

2015

Honored of "Provincial engineering research and development center" 2018

2018 Russia World Cup HVAC Supplier Giwee company becomes a Test center certificated by CNAS

2021

subsidiary of Carrier Company



Production Capacity

Giwee has 18 advanced production lines and an annual production capacity of over 2.5 million sets

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 qualit Execution System) system, it helps a lot in tracking and other operations management to improve. Assembly Arm

Packing Robot



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 accreditedlabs 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

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



















































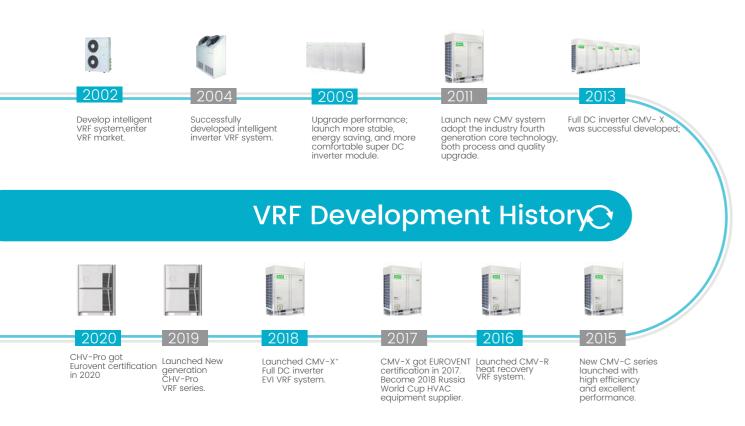
The R&D center of Giwee has more than 200 technical engineers, carry out technology collaboration and joint research with postdoctoral research workstations and Guangdong enterprise workstations, at the same time, introducing senior technical experts from Japan to join Giwee and served as senior technical 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.



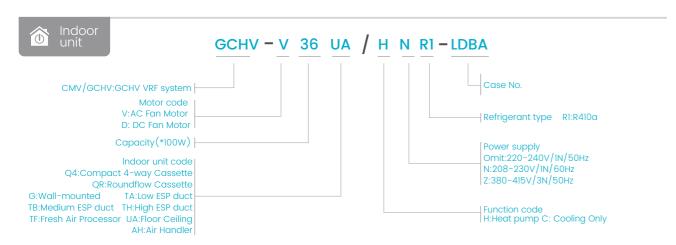
Directory

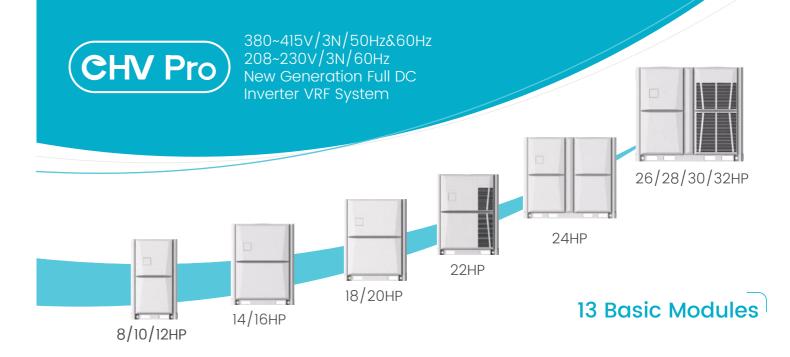
- 01 Overview
- 02 CHV-Pro
- 21 Specifications
- 27 GCHV-Mini/CHV-Mini
- 34 Specifications
- 35 Indoor Units
- Controller and Software
- 61 Projects



How To Read The Model Name





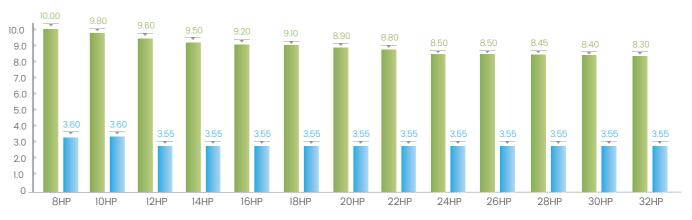


Capacity	8НР	10HP	12HP	14HP	16HP	18HP	20HP	22HP	24HP	26HP	28HP	30HP	32HP
	25.2kW	28kW	33.5kW	40kW	45kW	50kW	56kW	61.5kW	67kW	73kW	78.5kW	85kW	90kW
V	V	V	V	V	V	V	V	V	V	V	V	~	V
Compressor	DC	DC	DC	DC	DC	DC	DC	DC	DC+DC	DC+DC	DC+DC	DC+DC	DC+DC
Fan motor	DC	DC	DC	DC	DC	DC+DC	DC+DC	DC+DC	DC+DC	DC+DC	DC+DC	DC+DC	DC+DC

EER&COP



IPLV(C)



• National Standard (GB 21454-2008) • CHV Pro

Combination Table -

НР	Cooling Cap.(kW)	8НР	10HP	12HP	14HP	16НР	18HP	20HP	22HP	24HP	26HP	28HP	30HP	32HP
V		~	V	V	V	V	V	~	V	V	V	~	V	V
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 54	145.5 152									•		•		
56	152									•			•	•
58	163									•	•			•
60	168.5											•		•
62	175											_	•	•
64	180												_	••
66	184.5								• • •					•
68	190								••	•				
70	195.5								•	• •				
70	201.5								••			•		
74	201.3						•					• •		
76	212.5									• •		•		
78	218.5								•			••		
80	216.5								-	•		••		
82	230									_	•	••		
84	235.5										•	•••		
86	242											••	•	
88	247											••	_	•
90	253										•			••
92	258.5										-	•		••
94	265											•	•	••
96	270												_	•••
	270													

*Note:Max.4 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.

Refrigerant Piping •



Features

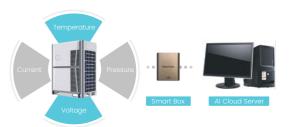
Long Distance Remote Control

Long distance remote control by phone or tablet.



Malfunction Forecasting

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



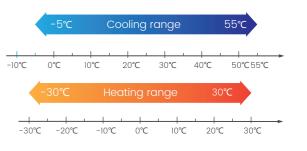
Refrigerant Cooling Design

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



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 GCHV 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:



Extremely insufficient Insufficient Slightly insufficient

Normal Slightly excess

Features



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

System can be unlock with password by authorized technician.

((10)) 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





Auto Charging Refrigerant(optional)

CHV 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.

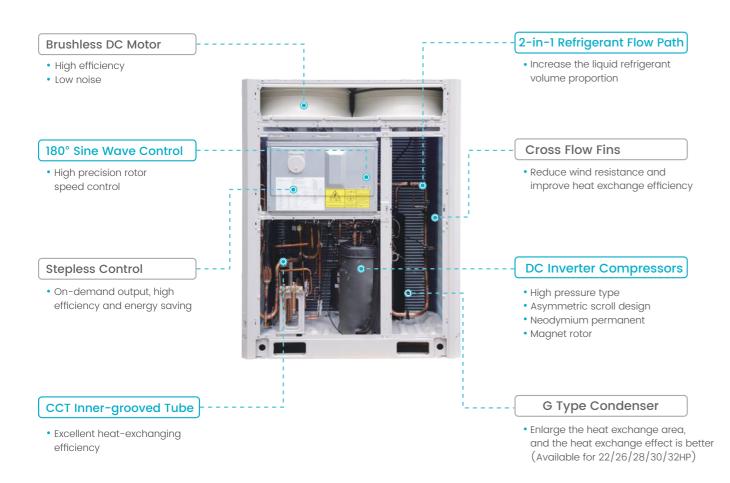
*:when 4 outdoor units are combined, the single unit capacity can not exceed 24HP.







Core Technologies Make High Efficiency



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 effciency.
- High pressure chamber

* Has small suction superheat and high refrigerant volume effciency * Has large refrigerant discharge buffer volume, low vibration and noise





Vapor injection pipe, better performance in low temperature

Vide frequency range.



High Efficiency DC Motor

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

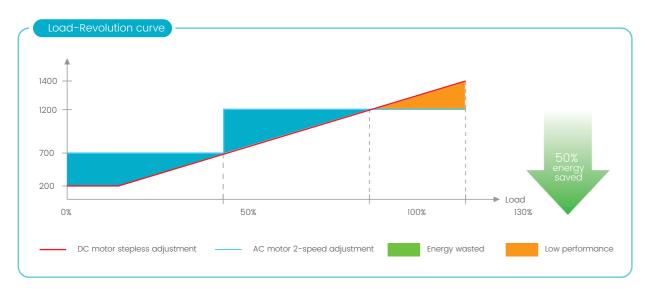
Low noise and high efficiency because of high-density wire winding engineering.

Brushless with built-in sensor.



Stepless Control

DC fan motor can be stepless contolled 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.



180°

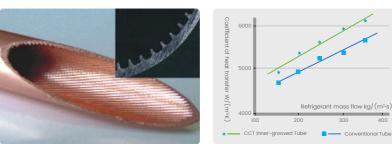
180° Sine Waveform Control

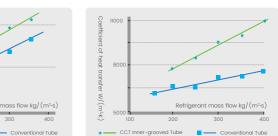
The perfect combination of 180° Sine waveform rotor frequency drive control technology and excellent IPM inverters, reduces the reactive loss of motor-driven, increases motor efficiency by 12%.



CCT Inner-grooved Tube

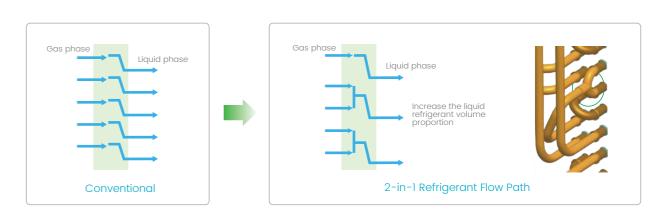
CCT (Continuous Cooling Transformation) inner-grooved copper tube has high thermometic conductivity. This inner-grooved fins break the refrigerant flow boundary layer to enhance refrigerant disturbance to increase heat-exchanging efficiency.

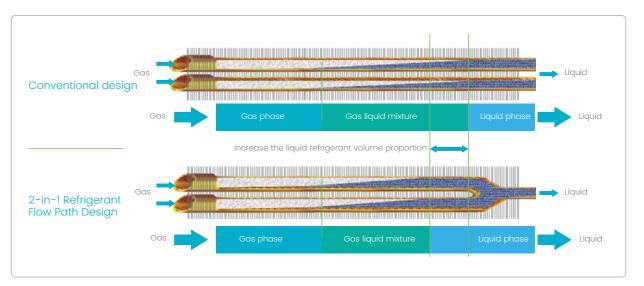




**

2-in-1 Refrigerant Flow Path Design

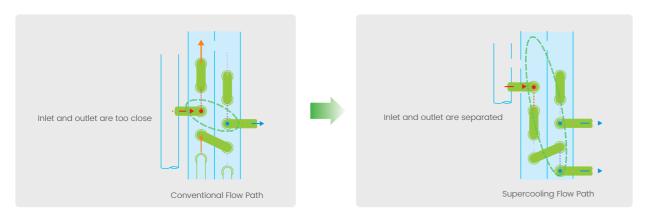






Supercooling Flow Path Design

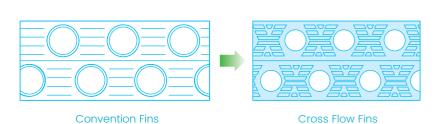
Supercooling flow path design, separates the refrigerant inlet and outlet, increase the supercooling degree, reduce the effect of high temperature inlet gas refrigerant to low temperature outlet liquid refrigerant, therefore, the system efficiency will be greatly increased.

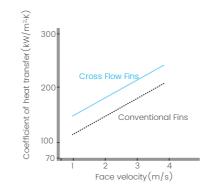




Cross Flow Fins

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



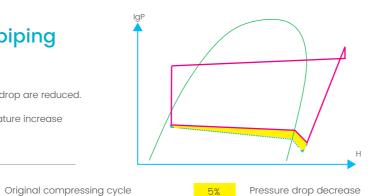




Low Resistance Internal piping

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

----- New structure cycle





The PHE Economizer

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

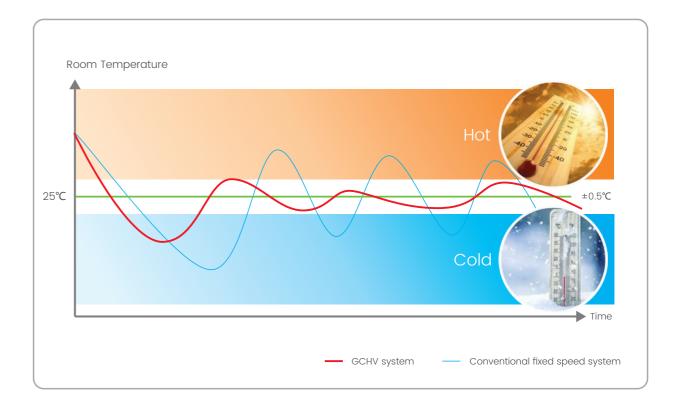






Outstanding Comfort Ability

- GCHV 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.



淼

Wide Operation Range

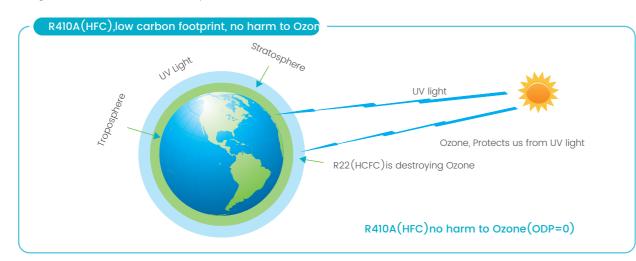
CHV pro has a wide ambient temperature operation range, cooling at -5-55°C, and heating at -30-30°C.



क्ष

Environment Friendly

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





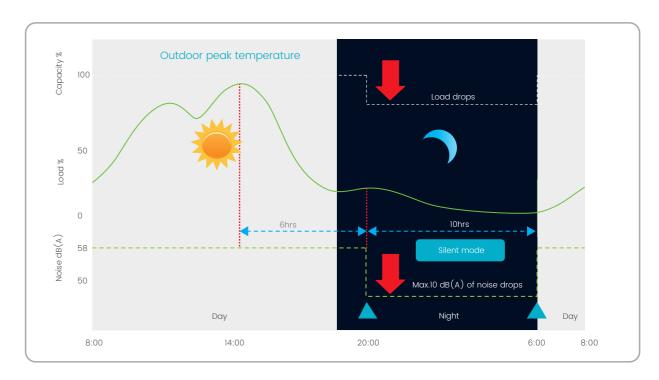
Snow-proof Function

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.



Silent Mode, Night Time Noise Control

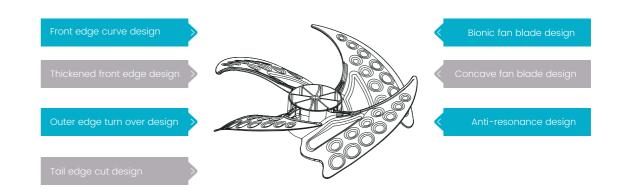
- Compressor and fan motor rotating speed can be reduced to lower the noise at night.
- Maximum 10dB(A) decrease.



*

Low Noise Fan Blade

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





3-stage Back Up Function

Module back up function.

When some modules are failure, the others can keep running by simply

Compressor back up function

When one compressor is failure, the other one can keep running by simply settings.

Fan motor back up function.

When one fan motor is failure, the other one can keep running by simply settings.







All Outdoor Units Cycle Operation



Start order:A→B→C



2nd Cycle: Start order:B→C→A



Start order:C→A→B

· Cycle operation equalizes the running time of the outdoor units, greatly extending the lifespan of outdoor units in one system.



IDU and ODU Positioning Function

• In one combination system, any outdoor unit can run as master unit.

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.

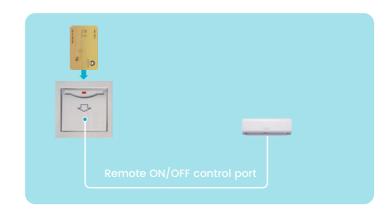






Remote ON/OFF Control Function

- 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.





Intelligent Defrosting Program

5 special defrosting mechanisms

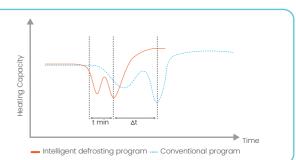
The dedicated temperature sensor monitors the temperature of the condenser coil of the outdoor unit in real time, intelligently selects the defrost mechanism and judges the timing of defrost, effectively prolongs the normal heating time, improves comfort, and achieves energy-saving effects.

- 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





- 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.



- 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.



- 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.







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



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.



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.



Auto priority



Heating priority



Cooling priority



Heating only



Cooling only

VIP unit priority +AUTO priority



5-Stage Oil Control

1st stage Compressor internal oil separation



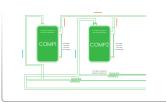








4th stage Oil balance between compressors

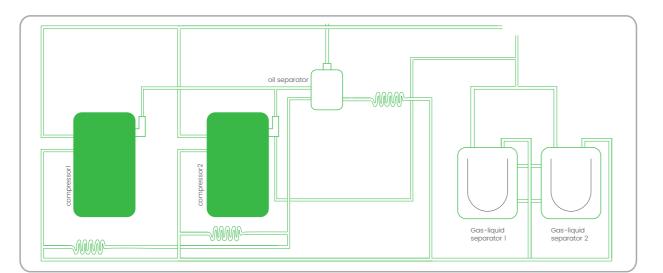


5th stage

Oil return by system oil return program

Intellingent oil return program





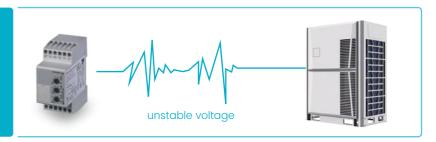


Humanized Internal Structure



- All key components are designed to close to outside, it is convenient for repair and
- 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)





Easy Installation

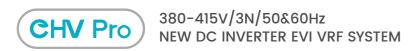




360° Pipe Connection

- 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;





Mode	el Name		GCHV-E252W/HZR1-DK01	GCHV-E280W/HZRI-DK0I	GCHV-E335W/HZRI-DK0I	GCHV-E400W/HZR1-DM01	GCHV-E450W/HZR1-DM(
Powe	r 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&60				
Performance Data											
Performance Data		LIB	· ·	~	V	V					
		HP	8HP	10HP	12HP	14HP	16HP				
	Capacity	kW	25.2	28.0	33.5	40.0	45.0				
On allian		Btu/h	86000	95500	114000	136500	153500				
Cooling		RT	7.2	8.0	9.5	11.4	12.8				
	Rated current	A	9.04	11.30	14.51	18.10	21.60				
	Power input	kW	5.31	6.22	8.35	9.76	11.63				
	EER	W/W	4.75	4.50	4.01	4.10	3.87				
		kW	27.4	31.5	37.5	45.0	50.0				
	Capacity	Btu/h	93500	107500	128000	153500	170600				
		RT .	7.8	9.0	10.7	12.8	14.2				
Heating	Rated current	Α	8.93	11.25	14.34	18.00	20.25				
	Power input	kW	4.98	5.86	7.35	9.34	10.87				
	COP	w/w	5.5 0	5.38	5.10	4.82	4.60				
Max. input consumption	on	kW	13.4	14.3	14.8	18.3	18.8				
Max. Current		А	23.1	24.7	25.5	30.8	31.7				
Capacity adjustment	range				50%~130%						
Compressor Data			~		· ·						
_	Quantity		Scroll Compressor								
Compressor	Туре				Scroll Compressor						
ol : 10 :	Brand				HITACHI						
Physical Data			~		V						
Type Refrigerant Volume				_	R410a						
Reingerant		Kg		9	11	14					
	Throttle type			000 1740 040	EXV						
Dimension (WxHxD)	Net	mm		990x1740x840	1340x174						
	Packing	mm		1060x1900x910 B 230		1410x1900					
Weight	Net Gross	Kg		28		275 293					
Outdoor sound level	GIUSS	Kg		40	242						
		dB(A) Mpa	5	8	60 4.5	60	61				
Max. operating range Piping Data		Mpa	~		4.J						
Fibring Data	Liquid pipe	mm	×	Ф12.7	Ф15.88						
Pipe size	Gas pipe	mm		Φ22.2							
	Total pipe length			1000	Ф28.6						
	ODU to farthest IDU	m		1000		TO TO	000				
Name and a	(Acual length)	m		200		2	200				
Max. pipe length	ODU to farthest IDU (Equivalent length)	m		240		2	40				
	lst IDU distributor to farthest IDU	m		40/90		40	/90				
	Between ODU & IDU (ODU above IDU)	m		100		1	00				
Max. vertical length	Between ODU & IDU (ODU below IDU)	m		110			110				
	Between IDUs	m		40			40				
	Between ODUs	m		0			0				
Operation Temperatu	ıre Range		~								
	Outdoor side	$^{\circ}$		-5~55			~55				
Cooling	Indoor side	℃		16~32		16	~32				
	Outdoor side	$^{\circ}$		-30~30		-30	0~30				
Heating	Indoor side	$^{\circ}$		16~32		-30~30 16~32					

V	ote	

CHV-E500W/HZRI-DM0I	GCHV-E560W/HZR1-DM01	GCHV-E615W/HZR1-DM01	GCHV-E670W/HZRI-DS01	GCHV-E730W/HZR1-DS01	GCHV-E785W/HZR1-DS01	GCHV-E850W/HZRI-DS0I	GCHV-E900W/HZRI-DS0
80~415V/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&60
_	•	•	•	•	· · · · · · · · · · · · · · · · · · ·	•	•
V	V	· · ·	· ·	· ·	· ·		
18HP	20HP	22HP	24HP	26HP	28HP	30HP	32HP
50.0	56.0	61.5	67.0	73.0	78.5	85.0	90.0
170600	191000	209800	228600	249100	267800	290000	307100
14.2	16.0	17.5	19.1	20.8	22.3	24.2	25.6
23.29	26.10	29.06	29.09	32.59	36.13	40.36	44.73
12.22	14.66	16.62	16.71	18.18	20.03	22.37	24.79
4.09	3.82	3.70	4.01	4.02	3.92	3.80	3.63
56.0	63.0	69.0	75.0	81.5	87.5	95.0	100.0
191000	214900	235400	255900	278100	298600	324100	341200
16.0	18.0	19.7	21.3	23.2	24.88	27.0	28.4
22.61	25.70	28.40 16.80	28.65	30.28	33.38	38.52	43.9 24.33
	14.16		14.72			21.35	
4.71 22.0	4.45 24.4	4.11 25.0	5.10	4.86	4.73 30.7	4.45 35.8	4.11 37.7
37.4	41.1	42.1	43.2	50.8	51.8	60.4	63.6
37.4	41.1	42.1	45.2		51.0	00.4	03.0
	1				2		
	Scroll Compressor				Scroll Compressor		
	HITACHI				HITACHI		
	V				V		
			R ²	410a			
15		16		2	0		23
	EXV				EXV		
	1340x1740x840				1990x1740x840		
	1410x1900x910				2060x1900x910		
285	290	297	388	4:	33	4	480
303	308	315	406	4	52	4	498
62	6	3	62	6	33		64
			4.	5			
	Ф1	5.88			Ф	22.2	
	Φ2	28.6			Ф	35.0	
	10	000			10	000	
	2	00			2	000	
	2	40			2	40	
	40	/90			40)/90	
	II.	00			I	00	
	1	10			1	110	
		40				40	
		0				0	
	-5	~55			-5	~55	
	-5- 16				-5 16		

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



Model Na	me		GCHV-D252W/CZR1-DK01	GCHV-D280W/CZR1-DK01	GCHV-D335W/CZR1-DK01	GCHV-D400W/CZR1-DM01	GCHV-D450W/CZR1-DM01			
Power Su	oply		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			
Performanc	e Data		~	~	~	×	<u> </u>			
Periormanc	e Data	HP	8HP	10HP	12HP	14HP	16HP			
		kW	25.2	28	33.5	40	45			
	Capacity	Btu/h	86000	95500	114000	136500	153500			
Cooling		RT	7.2	8	9.5	11.4	12.8			
	Downer in must	kW	5.86	6.79	9.18	10.50	12.20			
	Power input EER	w/w		4.12			3.68			
Datad input	consumption	kW	4.30		3.65	3.80				
			13.90	14.10	14.60	17.96	18.34			
Rated. curren		А	24.0 24.5 25.2 30.2 31.1 5.0% x x 3.0%							
	ustment range		50%~130%							
Compresso			~							
	Quantity				1					
DC Inverter	Туре				DC /Twin-rotary					
compressor	Brand				Mitsubishi					
Frequency range Hz					10~120					
Physical Data										
Туре										
Refrigerant Volume Kg				10		12.	5			
Dimension Net m		mm		840x1740x990		840x174	0x1340			
Dimension (DxHxW) Packing mm				910x1900x1060		910x190	0x1410			
	Net	Kg		210		26	0			
Weight	Gross	Kg		220		27	8			
Outdoor sour		dB(A)		58		60	61			
	erating pressure	MPa			4.5		J.			
Piping & Wi	9.	IVII G	~		~V					
	Liquid pipe	mm		Φ12.7			5.9			
Pipe size	Gas pipe	mm					28.6			
				Ф22.2	1000	Ψ2	.0.0			
	Total pipe length	m			1000					
Max.	From OU to farthest IU(Actual length)	m			200					
pipe length	From OU to farthest IU (Equivalent length)	m			240					
	From 1st indoor distributor to farthest IU	m			90					
	Between OU & IU (OU above IU)	m			100					
Max. Vertical	Between OU & IU (OU below IU)	m			110					
length	Between IUs	m			40					
		m			0					
Operation	Between Ous									
Operation	Temperature Rang		~							
Cooling	Outdoor side	℃			-5~55					
	Indoor side	$^{\circ}$			16~32					

CONT DOCUMPOZICI DINO	DOGOV DOGOV CERT DING	CONT DOIST CERT DINOT	CONT DOTO CERT DINOT	CONV D700/CZKI D301	0011V 2000/02K1 2001	CONT DOSC/CERT DOSC
880~415V/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&60H
<u> </u>	<u> </u>		~	~	· · · · · · · · · · · · · · · · · · ·	<u> </u>
18HP	20HP	22HP	24HP	26HP	28HP	30HP
50.0	56.0	61.5	67.0	73.0	80.0	85.0
170600	191000	209800	228600	249100	273038	290000
14.2	16.0	17.5	19.1	20.8	22.75	24.2
15.10	17.60	20.36	20.81	23.10	25.97	29.11
3.31	3.18	3.02	3.22	3.16	3.08	2.92
18.74	25.90	27.80	29.50	32.00	32.00	36.50
32.0	46.6	47.5	51.0	53.00	53.00	63.00
			50%~130%			
1				2		
			DC /Twin-rotary			
			Mitsubishi			
			10~120			
			R410a			
12.5	16	.5	18.0	2	20.0	25.0
	840x174				840x1740x1990	
	910x190				910x1900x2060	
260	29		306		358	410
278		16	324		376	428
62	6		65		66	67
02	0	3	4.5		00	07
			4.5			
			5.9			
						Ф22.2
		Φ2				Ψ35
			1000			
			200			
			240			
			90			
			30			
			100			
			110			
			40			
			0			
			-5~55			

GCHV-D500W/CZR1-DM01 GCHV-D560W/CZR1-DM01 GCHV-D615W/CZR1-DM01 GCHV-D670/CZR1-DM01 GCHV-D730/CZR1-DS01 GCHV-D800/CZR1-DS01 GCHV-D850/CZR1-DS01

*The above data may be changed without noitce for future improvement.



CHV Pro Cooling 208~230V/3N/60Hz NEW DC INVERTER VRF SYSTEM

Model Na	me		GCHV-D252W/CXR1-DK01	GCHV-D280W/CXR1-DK01	GGCHV-D335W/CXR1-DK01	GCHV-D400W/CXR1-DM0				
Power Su	pply		208~230V/3N/60Hz	208~230V/3N/60Hz	208~230V/3N/60Hz	208~230V/3N/60Hz				
Performanc	e Data		<u> </u>	<u> </u>	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·				
		HP	8HP	10HP	12HP	14HP				
		kW	25.2	28	33.5	40				
	Capacity	Btu/h	86000	95500	114000	136500				
Cooling		RT	7.2	8	9.5	11.4				
	Power input	kW	5.82	6.81	9.05	10.47				
	EER	w/w	4.33	4.11	3.70	3.82				
Rated. input o	consumption	kW	13.50	14.10	14.20	16.90				
Rated. curren	nt	А	40.0	42.0	45.0	50.0				
Capacity adj	iustment range		50%-130%							
Compresso	r Data									
	Quantity				1					
DC Inverter	Туре		DC / Twin-rotary							
compressor	Brand			Mitsu	ubishi					
	Frequency range	rps		10-	-120					
Physical Dat	ta									
	Туре									
Refrigerant	Volume	Kg		8		12				
Dimension	Net	mm		840x1740x990		840x1740x1340				
Dimension (DxHxW)	Packing	mm		910x1900x1060		910x1900x1410				
Net Kg				208		260				
Weight	Gross	Kg		278						
Outdoor sour	nd level	dB(A)	5		60					
Maximum op	erating pressure	MPa		.5						
Piping & Wi	9.1									
	Liquid pipe	mm		Φ12.7		Φ15.9				
Pipe size	Gas pipe	mm		Ф25.4		Ф31.8				
	Total pipe length	m			000					
Мах.	From OU to farthest IU(Actual length)				90					
pipe length	From OU to farthest IU (Equivalent length)	m		2	20					
	From 1st indoor distributor to farthest IU	m		(90					
	Between OU & IU (OU above IU)	m		(90					
Max. Vertical	Between OU & IU (OU below IU)	m		1	10					
length	Between IUs	m			30					
	Between Ous	m			0					
Operation	Temperature Rang									
	Outdoor side	°C			~50					
Cooling				_						

GCHV-D450W/CXR1-DM01	D450W/CXR1-DM01 GCHV-D500W/CXR1-DM01 GCHV-D560W/CXR1-DM01 GCHV-D615W/CXR1-DM01 GCHV-D615W/CXR1-DW01 GCHV-D615W/CXR								
208~230V/3N/60Hz	208-230V/3N/60Hz	208-230V/3N/60Hz	208~230V/3N/60Hz	208~230V/3N/60Hz					
<u> </u>	× ×	×	× ×	~ ~					
16HP	18HP	20HP	22HP	24HP					
45	50.0	56.0	61.5	67.0					
153500	170600	191000	209800	228600					
12.8	12.8 14.2 16.0 17.5								
11.75	11.75 13.37 15.73 18.25								
3.83	3.83 3.74 3.56 3.37								
17.30	24.00	26.50	27.00	27.00					
53.0	70.0	78.0	80.0	80.0					
		50%~130%							
1		2	2						
		DC /Twin-rotary							
		Mitsubishi							
		10~120							
		R410a							
12	13	14	14	15					
		840x1740x1340							
		910x1900x1410							
260	288	296	296	306					
278	306	314	314	324					
61	62	63	63	63					
		4.5							
		Ф15.9							
		Ф31.8							
		1000							
		190							
		220							
		90							
		90							
		110							
		30							
		0							
		-5~50							
		3 30							

*The above data may be changed without noitce for future improvement.



9 Models

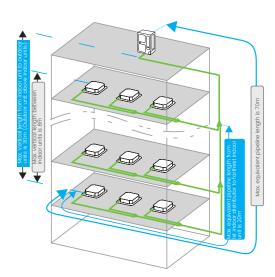
Capacity	12.5kW	14kW	16kW	18kW	20kW	22.4kW	26kW	28kW	33.5kW
Compressor	DC	DC	DC	DC	DC	DC	DC	DC	DC
Fan motor	DC+DC	DC+DC	DC+DC	DC+DC	DC+DC	DC+DC	DC+DC	DC+DC	DC+DC



- Refrigerant Piping -

The total pipe length	100m(12.5-22.4kW),120m(26-33.5kW)
The longest pipe length	Actual length 60m Equivalent length 70m
Equivalent length from first indoor distributor to last indoor unit	20m
Height difference between indoor and outdoor unit:	Outdoor unit above≤30m Outdoor unit below≤20m
Height difference between indoor units	8m

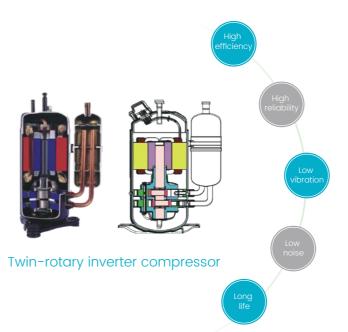
^{*}Please refer to the installation manual for detailed length description.



-Features -



High Efficiency DC Inverter Compressor



Twin-rotary DC inverter compressor

- Use high efficiency and reliability compressor
- Has very good efficiency in part load condition

High Efficiency, Low Noise

• Optimized the efficiency and noise during operation with the latest technology.

Environmental Protection

Developed the compressor with alternativere frigerant which can protect environment.

Low Vibration

 Reduced the vibration during compressor start and operation by using 2CYL Structure, simplified the match of air-conditioning.

High Efficiency DC Motor



- High efficiency DC fan motor
- ◆ Low noise and high efficiency because of high-density wire winding engineering
- Brushless with built-in sense



Space Saving Installation

- Multiple indoor units can be connected to 1 outdoor unit, and long piping connection is also possible.
- Compare to one-drive-one type, the outdoor unit can be installed in various places to realize the space-saving installation.

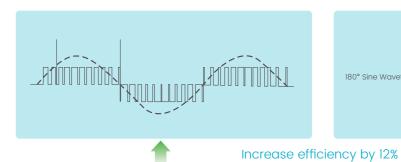


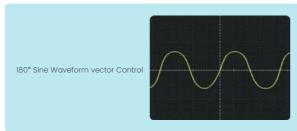


180°

180° Sine Wave Control

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



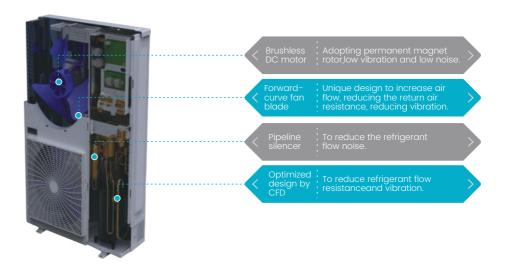






Ø

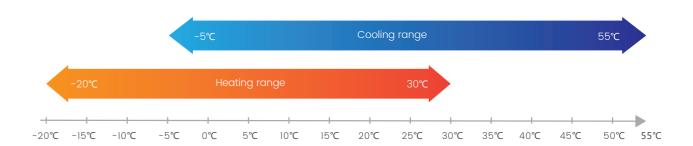
Silent Technology



**

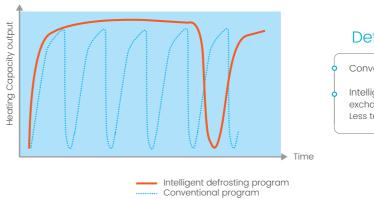
Wide Outdoor Operation Range

Max. cooling operating temperature is designed up to 55° C. Heating operating temperature is down to -20° C.



Intelligent Defrosting Program

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



Defrost curve

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.

Fan Reversal Protection





Rotation correct Can startup







Under protection Can not start



In standby, if the outdoor fan motor is rotating in opposite direction at a high speed by the wind or other natural factors, the unit can't start so as to keep the fan motor from broken down, it will start when the fan motor speed

Mode Restriction

- 7 kinds of mode restriction
- Auto priority (Default Setting)
- Cooling only mode
- Cooling priority mode Heating only mode
- Heating priority mode.
 - First start mode
- VIP unit priority+AUTO priority mode

Cooling only

- Mode restriction function can be selected on the outdoor PCB.







Heating priority





First start





Heating only



VIP unit priority +AUTO priority



High Efficiency



Refrigerant cooling technology for PCB

- The radiation fin is made of aluminum panels fitting together seamlessly.
- This helps to cool down the IPM, it has better performance compared to air cooling for PCB.
- NEW TECHNOLOGY (3) The outdoor unit has capability to run in max. 55°C ambient temperature.



Automatically Addressing

- Automatically addressing: system will distribute address to indoor unit automatically
- Automatic addressing will reduce artificial faults and





Independent Display Board



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

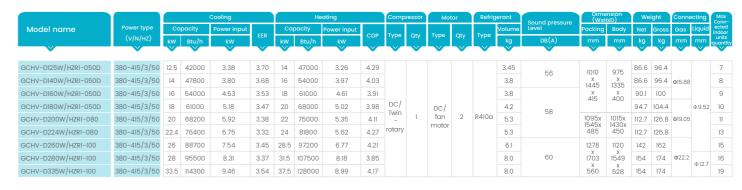


Lower Noise





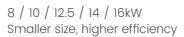




Indoor Air Inlet Temperature: 27°C DB / 19°C WB,T1: Outdoor Air Inlet Temperature: 35°C DB

2.Heating Operation Conditions: Indoor Air Inlet Temperature: 7°C DB / 6°C WB





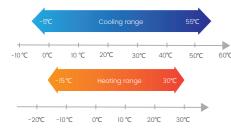




Compact appearance

- Easy for transportation.
- It is suitable to be installed on terrace due to its compact appearance





Wide Outdoor Operation Range

- Because of refrigerant cooling design, the cooling ambient temperature range is up to 55°C.
- Heating ambient temperature is down to -15 °C, in cold weather, CHV Mini VRF has capability to heat the room continuously.





Easy Maintenance Window

LED display on the PCB: this is available to show operation status and error codes of the system.





CHV-Mini

Model	name		CHV-DH080W/R1	CHV-DH100W/R1	CHV-DH125W/R1	GCHV-D125W/HZR1-D01	CHV-DH140W/R1	GCHV-D140W/HZR1-F01	CHV-DH160W/R1	GCHV-D160W/HZR1-F01
Model	Hume		CHV-DH080W/NR1	CHV-DH100W/NR1	CHV-DH125W/NR1	GCHV-D125W/HYR1-D01	CHV-DH140W/NR1	GCHV-D140W/HYR1-F01	CHV-DH160W/NR1	GCHV-D160W/HYR1-F01
	t.		220~240V/1N/50Hz	220~240V/1N/50Hz	220~240V/1N/50Hz	380~415V/3N/50Hz	220~240V/1N/50Hz	380~415V/3N/50Hz	220~240V/1N/50Hz	380~415V/3N/50Hz
Power	supply		208~230V/1N/60Hz	208~230V/1N/60Hz	208~230V/1N/60Hz	380~415V/3N/60Hz	208~230V/1N/60Hz	380~415V/3N/60Hz	208~230V/1N/60Hz	380~415V/3N/60Hz
	V		V	×	×		V	V	×	×
Performa	ınce data		~							· · · · · · · · · · · · · · · · · · ·
	Capacity	kW	8	10	12.5	12.5	14	14	16	16
		Btu/h	27300	34100	42600	42600	47800	47800	54600	54600
Cooling	Power input	kW	2.60	3.00	3.20	3.20	3.75	3.75	4.75	4.75
	Rated current	Α	11.8	13.6	14.5	6.0	17.0	7.0	21.8	8.8
	EER	w/w	3.08	3.33	3.91	3.91	3.73	3.73	3.37	3.37
	O 't	kW	9	11	14	14	16	16	17	17
	Capacity	Btu/h	30700	37500	47800	47800	54600	54600	58000	58000
Heating	Power input	kW	2.65	3.1	3.52	3.52	4	4	4.4	4.4
	Rated current	А	12	14	16.1	6.6	18.2	7.5	20	8.2
	COP	w/w	3.40	3.55	3.98	3.98	4.00	4.00	3.86	3.86
Compres	sor data									~
DO Investor	Quantity		1	1	1	1	1	1	1	1
DC Inverter compressor	Туре		Twin-rotary							
Compressor	Brand		Mitsubishi	GMCC	Mitsubishi	Highly	Mitsubishi	Highly	Mitsubishi	Mitsubishi
Fan data			~							~
	Туре		DC							
Fan motor	Quantity		1	1	1	1	1	1	1	1
	Power output	W	75	90	180	90	180	170	180	170
Fan blade	Fan Quantity		1	1	1	1	1	1	1	1
ranbiade	Air flow	m³/h	3300	4000	5500	4000	5500	5500	5500	5500
Physical	data									
	Fin type		Hydrophilic Foil							
Outdoor coil	Number of rows		3	2	2	2.5	3	3	3	3
	Tube type		Inner-grooved copper tube							
Refrigerant	Туре		R410a							
Kenigerani	Volume	kg	2.00	2.60	3.00	3.00	3.80	3.45	3.80	3.80
Dimension	Net	mm	935x702x383	1032x810x445	1100x870x528	1032×810×445	1100x870x528	1100x870x528	1100x870x528	1100x870x528
(WxHxD)	Packing	mm	975x770x420	1075x875x495	1140x965x540	1075×875×495	1140x965x540	1140x965x540	1140x965x540	1140x965x540
Woight	Net	kg	47	60	85	67.4	90	87.5	90	90
Weight	Gross	kg	50	65	95	72.2	100	97.4	100	100
ODU sound leve	el	dB(A)	≤54	≤56	≤56	≤56	≤57	≤57	≤57	≤57
Operation	n temp. range		~							~
Cooling	Outdoor side	°C	-5~55	-5~55	-5~55	-5~55	-5~55	-5~55	-5~55	-5~55
Heating	Outdoor side	°C	-15~30	-15~30	-15~30	-15~30	-15~30	-15~30	-15~30	-15~30
Heating	Outdoor side	°C	-15~30	-15~30	-15~30	-15~30	-15~30	-15~30	-15~30	-15~30

- 1. The cooling conditions: indoor temp.:27°C DB(80.6°F), 19°C WB(60°F), outdoor temp.: 35°C DB(95°F) equivalent pipe length:5m drop length:0m.

 2. The heating conditions: indoor temp.:20°C DB(68°F), 15°C WB(44.6°F), outdoor temp.:7°C DB(42.8°F) equivalent pipe length:5m drop length:0m.

 3. Sound level: Anechoic chamber conversion value, measured at point 1 min front of the unit at a height of 1.2m. During actual operation, these values are normally somewhat higher
- 4. The above data may be changed without notice for future improvement on quality at performance.

Indoor Units line Up





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

1-way Cassette



Features•

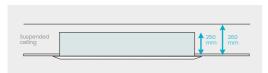
Accessories

Plenum box	Air filter	EXV	Drain pump	AC motor	DC motor
1	Standard	Standard	Standard(built-in)	Standard	1



Slim body, easy to install

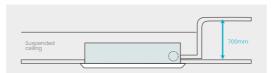
Has slim body with 250mm height, it is specially suitable for low suspended ceiling rooms.





Built-in with drainage pump

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



Specification-

						Motor	A in a	flow	Sound Level	FCD					Body	Weight	Cor		pipe	
Model name	Power type	Co	oling	Hed	ating	input	All	iiow	Level	ESP	Packing	Body	Panel packing	Panel	Net	Gross	Gas	Liquid	Drain	Standard controller
		kW	kBtu/h	kW	kBtu/h	kW	M³/h	CFM	DB(A)	Pa	mm	mm	mm	mm	kg	kg	mm	mm	mm	
CMV-V22Q1/HR1-B	50Hz	2.2	7.5	2.5	8.5						1160	994	1090	1070						
CMV-V28Q1/HR1-B	50Hz	2.8	9.5	3.2	10.9	0.04	520	306	32~36		275	250	65 V	50	24/3.6	30/5.0	Ф9.53			
CMV-V36Q1/HR1-B	50Hz	3.6	12.2	4.0	13.6						655	532	5 ^X 40	520						
CMV-V45Q1/HR1-B	50Hz	4.5	15.3	5.0	17.0	0.05	610	360	36~41	/	1160 X 315 X 655	994 290 x 532	1090 X 65 X 540	1070 X 50 X 520	26/3.6	32/5.0	Ф12.7	Ф6.35	ОДФ25	Remote controlle
CMV-V56Q1/HR1-B	50Hz	5.6	19.1	6.3	21.4	0.07	750	440	35~41		1470 X 305	1304 x 290	1390 X 70	1380 X 50	34/3.6	39/5.0				
CMV-V71Q1/HR1-B	50Hz	7.1	24.2	8.0	27.2	0.09	950	550	38~45		690	572	560	X 520		,	Ф15.9	Ф9.53		

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

2.Cooling test condition: indoor side 20°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.

2-way Cassette



Features

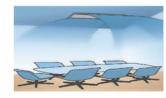
Accessories

Plenum box	Air filter	EXV	Drain pump	AC motor	DC motor
1	Standard	Standard(built-in)	Standard(built-in)	Standard	1



2 way air direction

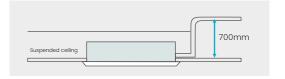
Two direction air flow, flexibly install in various rooms or hallway





Built-in with drainage pump

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



Specification -

			Cap	acity		Motor	Air	flow	Sound	ESP		Dimension	on(WxHxD)		Body	Weight	Cor	necting	pipe	
	Power type	Co	oling	Hec	ating	input	All	IIOW	Level	ESP	Packing	Body	Panel packing	Panel	Net	Gross	Gas	Liquid	Drain	Standard controller
		kW	kBtu/h	kW	kBtu/h	kW	M³/h	CFM	DB(A)	Ра	mm	mm	mm	mm	kg	kg	mm	mm	mm	
	_		_	•	_		~	•		•	_				•			•	_	
CMV-V45Q2/HR1-B	50Hz	4.5	15.3	5.0	17	0.07	800	470	36~42		1215 x 365	1068 x 310	1235 x 70	1205 X 50	22/65	36/8.5	Ф12.7	Ф6.35		
CMV-V56Q2/HR1-B	50Hz	5.6	19.1	6.3	21.4	0.07	000	470	00 42	,	630	X 517	655	630	33/0.3	30/6.5	Ψ12.7	Ψ0.33	ОПФ25	Remote
CMV-V7lQ2/HR1-B	50Hz	7.1	24.2	8.0	27.2	0.10	1120	650	40~46	,	1455 X 365	1308 X 310	1475 x 70	1445 x 50	40/75	47/10.0	Ф15 9	Ф9.53	00423	controller
CMV-V80Q2/HR1-B	50Hz	8.0	27.2	9.0	30.7	0.10	1120	000	40.40		630	X 517	655	X 630	40/7.5	4//10.0	+.0.0	¥ 5.00		

2.Cooling test condition: indoor side 27°C DB, 19°CWB 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	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.

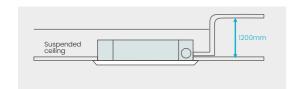




Built-in with drainage pump

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.





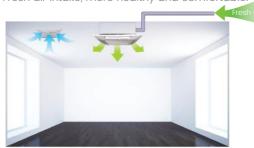
Space saving installation

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



\$\frac{1}{2}\$ Fresh air intake

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





Specification-

4-way Cassette Unit(Compact type)

			Сар	acity		Power	Air		Sound	ESP		Dimens	ion(WxHxD)		Body	Weight	Со	nnectin	g pipe	0
Model name	Power type	Со	oling	He	ating	input	Air	llow	Level	ESP	Packing	Body	Panel packing	Panel	Net	Gross	Gas	Liquid	Drain	Standard controlle
		kW	kBtu/h	kW	kBtu/h	kW	M³/h	CFM	DB(A)	Ра	mm	mm	mm	mm	kg	kg	mm	mm	mm	
CMV-V22Q4/HR1-C	50Hz	2.2	7.5	2.5	8.5	0.038	447	263	22~34						17.5	23				
CMV-V22Q4/HNR1-C	60Hz	2.2	7.5	2.5	0.0	0.036	447	203	22~34						17.5	23	Ф9.52			
CMV-V28Q4/HR1-C	50Hz	2.8	9.5	3.2	10.9	0.038	447	263	22~34		755	653	750	650	17.5	23	Ψ9.52			
CMV-V28Q4/HNR1-C	60Hz	2.0	5.5	3.2	10.5	0.036	447	203	22~34	,	x 375	x 267	x 95	x 30	17.5	23		Ф6.35	ОДФ25	Remote
CMV-V36Q4/HR1-C	50Hz	3.6	12.2	4.0	13.6	0.040	515	303	27~38	/	x 680	x 585	x 750	X 650	17.5	23		Ψ0.33	ΟυΨ25	controller
CMV-V36Q4/HNR1-C	60Hz	3.6	12.2	4.0	15.0	0.040	515	303	27-30		000	202	/50	650	17.5	25				
CMV-V45Q4/HR1-C	50Hz	4z 4.5	15.3	5.0	17	0.040	515	303	27~38						17.5	23	Ф12.7			
CMV-V45Q4/HNR1-C	60Hz	4.5	10.0	5.0	17	0.040	515	303	27-30						17.5	25				

Round-flow Cassette

			Cap	acity		Power	Air	flow	Sound	ESP		Dimens	ion(WxHxD)		Body	Weight	Co	nnectin	g pipe	
Model name	Power type	Со	oling	He	ating	input	AII	llow	Level	ESP	Packing	Body	Panel packing	Panel	Net	Gross	Gas	Liquid	Drain	Standard controlle
		kW	kBtu/h	kW	kBtu/h	kW	M³/h	CFM	DB(A)	Pa	mm	mm	mm	mm	kg	kg	mm	mm	mm	
		_	_	_	_	_	_	_	_	_		_			_	_	_		_	
CMV-V56QR/HRI	50Hz	5.6	19.1	6.3	21.4	0.043	860	500	32~39						24	30	Ф12.7	Ф6.35		
CMV-V56QR/HNRI	60Hz										920	833								
CMV-V7IQR/HRI	50Hz	7.1	24.2	8.0	27.2						x 265	x 232			24	30				
CMV-V7IQR/HNRI	60Hz	7.1	24.2	0.0	21.2	0.093	1200	700	35~39		x 985	x 900			24	30				
CMV-V80QR/HRI	50Hz	8.0	07.0	8.8	20	0.033	1200	700	35~33		900	900			24	30				
CMV-V80QR/HNR1	60Hz	8.0	27.2	8.8	30										24	30				
CMV-V90QR/HR1	50Hz	9.0	20.7	10.0	0.41										00.5	25				
CMV-V90QR/HNR1	60Hz	9.0	30.7	10.0	34.1								1000	050	28.5	35				
CMV-V100QR/HR1	50Hz	10.0	241	11.0	07.5					,			1030 x	950 x	00.5	25				Remote
CMV-V100QR/HNR1	60Hz	10.0	34.1	11.0	37.5					/			100 X	50 x	28.5	35	Ф15.88	4 0 E0	Ф25	controller
CMV-V112QR/HR1	50Hz	11.2	38.2	12.5	42.6		1400	820	37~41		920	833	1030	950	00.5	35	Ψ15.00	Ψ9.52		
CMV-V112QR/HNR1	60Hz	11.2	38.2	12.5	42.6	0.160					x 310	x 286			28.5	35				
CMV-V125QR/HR1	50Hz	12.5	42.6	14.0	47.7	0.160					x 985	x 900			28.5	35				
CMV-V125QR/HNR1	60Hz	12.5	42.0	14.0	47.7						000	000			26.5	35				
CMV-V140QR/HR1	50Hz	140	47.7	15.0	F1.1											0.5				
CMV-V140QR/HNR1	60Hz	14.0	47.7	15.0	51.1		1000	1050	20.40						28.5	35				
CMV-V160QR/HR1	50Hz	10.0	E 4 E	17.0			1800	1050	38~46						00.5	25				
CMV-V160QR/HNR1	60Hz	16.0	54.5	17.0	58										28.5	35				

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



• Features •

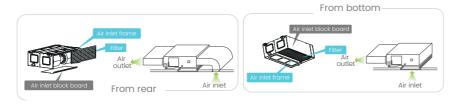
Accessories

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.





Sig 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.

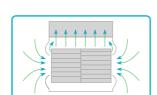


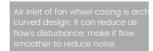








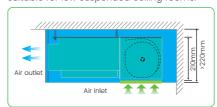






Slim body, easy to install

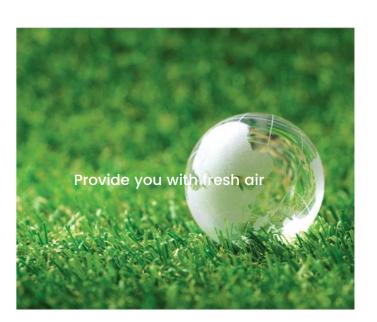
Has slim body with 210mm height, it is specially suitable for low suspended ceiling rooms.











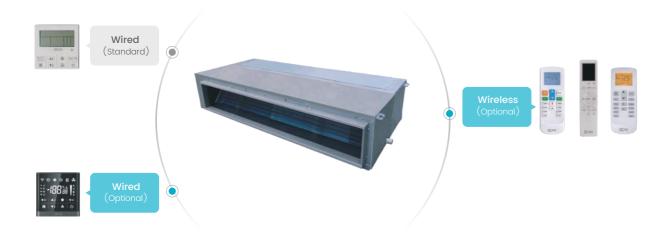
Specification-

			Сар	acity		Rated			Sound	ESP		Dimensi	on(WxHxD)		Body	Weight	Со	nnectin	g pipe	
Model name	Power type	Co	oling	He	ating	input	Air	flow	Level	ESP	Packing	Body	Panel packing	Panel	Net	Gross	Gas	Liquid	Drain	Standard controller
		kW	kBtu/h	kW	kBtu/h	kW	M³/h	CFM	DB(A)	Pa	mm	mm	mm	mm	kg	kg	mm	mm	mm	
CMV-V22TA/HRI-C	50Hz			_			_	_	_				<u> </u>					_		
CMV-V22TA/HNR1-C	60Hz	2.2	7.5	2.5	8.5										16.0	18.5				
CMV-V28TA/HR1-C	50Hz				T	0.08	450	260	24~29								Ф9.52			
CMV-V28TA/HNR1-C	60Hz	2.8	9.5	3.2	10.9						910 x	814 x			16.0	18.5				
CMV-V36TA/HR1-C	50Hz	3.6	12.2	4.0	13.6		550	324	25~32		240 x	210 x			16.5	19.0				
CMV-V36TA/HNR1-C	60Hz	5.0	12.2	4.0	13.0	0.11	550	024	20 02	30	510	467			10.5	13.0		Ф6.35		
CMV-V45TA/HR1-C	50Hz	4.5	15.3	5.0	17		620	360	32~37				/	/	16.5	19.0	+10.7		ОDФ25	Wired controller
CMV-V45TA/HNR1-C	60Hz	4.0	10.0	5.0	17		020	000	02 07						10.5	13.0	Ф12.7			
CMV-V56TA/HR1-C	50Hz	5.6	10.1	0.0	01.4	0.16	800	520	28~38		1110 X 240	1010 X 210			01.0	040				
CMV-V56A/HNR1-C	60Hz	0.0	19.1	6.3	21.4	0.16	800	520	20~30		X 510	467			21.0	24.0				
CMV-V7ITA/HR1-C	50Hz	7.1	24.2	8.0	27.2	0.18	1000	640	30~39		1310 X 240	1214 X			25.5	28.5	Ф15.88	Φ 0.52		
CMV-V7ITA/HNRI-C	60Hz					0.10	1000	040	30*39		510	210 467			20.0	20.0	\$10.00	₩ U.UZ		

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



Features

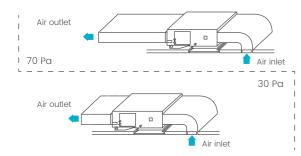
Accessories

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



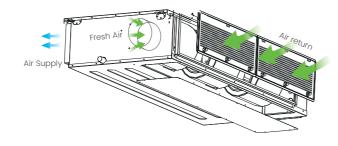
Static pressure

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





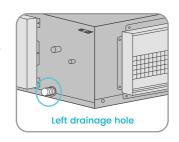
A reserved outside air intake port allows outdoor air to be introduced directly into the unit, no need for a seperate ventilation system.

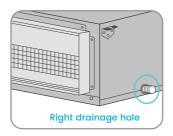




Convenient in drainage pipe installation

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.

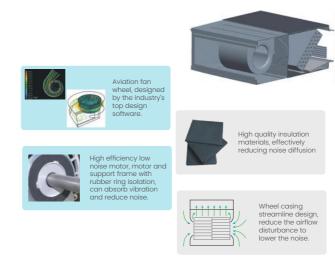






Whole unit low noise design, silent operation 2

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.



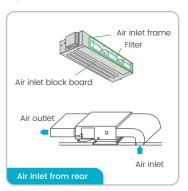


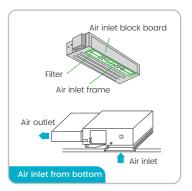
The power consumption of DC fan motor can be reduced greatly in comparison to corresponding AC type.



Two air return installation methods

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





- Specification -

			Сар	acity		Rated	Air	flow	Sound	ESP		Dimens	ion(WxHxD)		Body	Weight	Co	nnectin	g pipe	
Model name	Power type	Со	oling	He	ating	input	All	IIOW	Level	ESF	Packing	Body	Panel packing	Panel	Net	Gross	Gas	Liquid	Drain	Standard controller
V		kW	kBtu/h	kW	kBtu/h	kW	M³/h	CFM	DB(A)	Ра	mm	mm	mm	mm	kg	kg	mm	mm	mm	
	_	_	_	_	_	_	•	_	_	•					_	•	•	•	_	_
CMV-V7ITB/HRI-B	50Hz	7.1	24.2	8.0	27.2						1255	1209			33	37				
CMV-V7ITB/HNRI-B	60Hz	7.1	2-7.2	0.0	27.2		1220	710	36~41		x 325	x 260			00	0,				
CMV-V80TB/HR1-B	50Hz		07.0		00.7		1220	710	30~41		X	X			33	37				
CMV-V80TB/HNR1-B	60Hz	8.0	27.2	9.0	30.7						720	680			33	3/				
CMV-V90TB/HR1-B	50Hz														4.0					
CMV-V90TB/HNR1-B	60Hz	9.0	30.7	10.0	34.1	0.40	1850	1080	38~43	70					46	50	+15.00	+0.50		Wired
CMV-V100TB/HR1-B	50Hz					0.40				70	1490	1445	/	/			Φ15.88	Ф9.52	ОДФ25	controller
CMV-V100TB/HNR1-B	60Hz	10.0	34.1	11.0	37.5						X	X			46	50				
CMV-VI20TB/HRI-B	50Hz						2000	1170	40~44		325 x	260 x								
CMV-VI20TB/HNRI-B	60Hz	12.0	40.9	13.0	44.3		2000	1170	40~44		720	680			46	50				
CMV-VI50TB/HRI-B	50Hz																			
CMV-VI50TB/HNRI-B	60Hz	15.0	51.1	17.0	58										46	50				

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

High ESP Ducted Unit



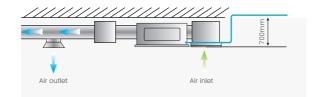
Features-

Accessories

Plenum box	Air filter	EXV	Drain pump	AC motor	DC motor
Standard	Standard	Standard	Optional	Standard	1

S Optional water pump

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



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

Can be used with various diffusers













Rectangular diffuser

High static pressure

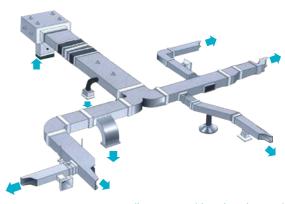
Big air flow with high static pressure, easy for large rooms duct design. Suitable for different shape of rooms.







High static pressure ducted unit



Long distance multi-point air supply

-Specification-

			Сар	acity		Power			Sound		Dimensio	n(WxHxD)	Body	Weight	Co	nnectin	g pipe	
Model name	Power type	Cod	oling	Не	ating	input	Air	flow	Level	ESP	Packing	Body	Net	Gross	Gas	Liquid	Drain	Standard controlle
	-/	kW	kBtu/h	kW	kBtu/h	kW	M³/h	CFM	DB(A)	Pa	mm	mm	kg	kg	mm	mm	mm	551115115
		•	•	•	•	•	•	•	•	•	_	•	_	•	•	•	_	_
CMV-V7lTH/HRI-B	50Hz	7.1	24.2	7.8	26.6													
CMV-V7lTH/HNR1-B	60Hz										1490	1445						
CMV-V80TH/HRI-B	50Hz	8.0	27.2	8.8	30	0.40	1500	880	40~42		х 325	x 260	46	50				
CMV-V80TH/HNR1-B	60Hz	0.0		0.0	00	0.10	1000	000	10 12		x 720	x 680						
CMV-V90TH/HR1-B	50Hz	9.0	30.7	10.0	34.1						720	000						
CMV-V90TH/HNR1-B	60Hz	0.0	50.7	10.0	04.1										ሰ ነ5 88	φ9.52		
CMV-V100TH/HR1-B	50Hz	10.0	34.1	11.0	37.5										Ψ10.00	Ψ0.02		
CMV-V100TH/HNR1-B	60Hz	10.0	04.1	11.0	07.0						1245	1190						
CMV-V120TH/HR1-B	50Hz	12.0	40.9	13.0	44.3	0.50	2200	1250	44~52		x 445	x 370	47	51				
CMV-V120TH/HNR1-B	60Hz	12.0	40.5	13.0	44.5	0.50	2300	1350	44~52		X 655	X 620	47	31				
CMV-V150TH/HR1-B	50Hz	15.0	51.1	17.0	58.0					150	655	620						Wired
CMV-V150TH/HNR1-B	60Hz	15.0	JI.I	17.0	56.0													controller
CMV-V200TH/HR1-B	50Hz	20.0	68.2	22.0	75.0	170	4000	0050	45 50									
CMV-V200TH/HNR1-B	60Hz	20.0	00.2	22.0	75.0	1.72	4000	2350	45~53		1510x580x870	1465x448x811						
GCHV-D200TH/HRI-F310	50/60Hz	20.0	68.2	22.0	75.0	1.20	3750	2200	45~50		1515x885x580	1440x811x448						
CMV-V250TH/HR1-B	50Hz	05.0	05.0	07.5	00.0	170	4000	0.470	45.54				-					
CMV-V250TH/HNR1-B	60Hz	25.0	85.3	27.5	93.8	1.72	4200	24/0	45~54		1510x580x870	1465x448x811	102	113	Ф22.2	Ф12.7	ОDФ30	
GCHV-D250TH/HRI-F310	50/60Hz	25.0	85.3	27.5	93.8	1.20	3750	2200	46~51		1515x885x580	1440x811x448						
CMV-V280TH/HR1-B	50Hz		05.5		105.0													
CMV-V280TH/HNR1-B	60Hz	28.0	95.5	30.8	105.0	1.72	4400	2580	45~55		1510x580x870	1465x448x811						
GCHV-D280TH/HRI-F310	50/60Hz	28.0	95.5	30.8	105.0	1.30	4100	2400	48~52		1515x885x580	1440x811x448						
CMV-V450TH/HZR1-B	50Hz	45.0	150.5	F0.0	170.0													
CMV-V450TH/HXR1-B	60Hz	45.0	153.5	50.0	170.6	2.60	6000	3520	60		2267 x	2165 x	222	260	⊅ 20 €	Φ1E 00	ОДФ32	
CMV-V560TH/HRI-B	50Hz				0.45					200	840 x	676 x	222	200	Ψ20.0	Ψ10.68	ΟυΨ32	
CMV-V560TH/HXR1-B	60Hz	56.0	191.0	63.0	214.9	3.40	8000	4700	64		1050	916						

- 1.Power supply: 220~240V/IN for 50Hz;208~230V/IN for 60Hz,.
- 2.Cooling test condition: indoor side 27 $^{\circ}$ DB, 19 $^{\circ}$ WB outdoor side 35 $^{\circ}$ DB. Heating test condition: indoor side 20 $^{\circ}$ DB, 15 $^{\circ}$ WB outdoor side 7 $^{\circ}$ 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



Features •

Accessories

Plenum box	Air filter	EXV	Drain pump	AC motor	DC motor
/	Standard	Standard(built-in)	1	/	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.



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



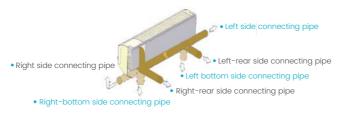
Flexible in installation

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





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
	~		~	V	~	×	V	V
Capacity	Cooling	kW	2.2	2.8	3.6	4.5	5.6	7.1
capacity	Heating	kW	2.5	3.2	4.0	5.0	6.3	8.0
Power input		W	15	15	18	20	23	35
F	Туре		DC	DC	DC	DC	DC	DC
Fan motor	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	1300/1200/1100/1000
Air flow		m³/h	440/380/360/350	440/380/360/350	500/440/415/380	655/610/565/525	720/645/580/560	890/805/720/645
Sound Pressure level		dB(A)	24~33	24~33	27~36	29~38	32~42	35~43
Body dimension	Net	mm	864x300x200	864x300x200	864x300x200	972x320x215	972x320x2l5	972x320x215
(WxHxD)	Packing	mm	945x375x290	945x375x290	945x375x290	1060x400x310	1060x400x310	1060x400x310
Body weight	Net/Gross	kg	9.5/12	9.5/12	9.5/12	11.5/14	11.5/14	11.5/14
Refrigerant type			R410A	R410A	R410A	R410A	R410A	R410A
Throttle type			EXV	EXV	EXV	EXV	EXV	EXV
Liquid pipe/Gas pi	ipe	mm	Φ6.35/Φ9.52	Φ6.35/Φ9.52	Φ6.35/Φ12.7	Φ6.35/Φ12.7	Φ6.35/Φ12.7	Ф9.52/Ф15.88
Drainage water pip (Outer diameter)	ре	mm	Ф20	Ф20	Ф20	Ф20	Ф20	Ф20
Operation temper	ature	°C	16~32	16~32	16~32	16~32	16~32	16~32

Notes:
1.Power supply: 220-240V/IN for 50Hz;208-230V/IN 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.

Wall Mounted Unit



Floor Ceiling Unit



· Features •

Accessories

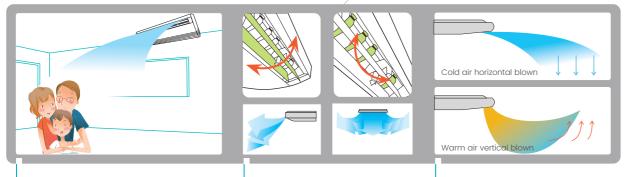
Plenum box	Air filter	EXV	Drain pump	AC motor	DC motor
/	Standard	Standard(built-in)	Optional	Standard	Optional



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



S Wide angle air supply

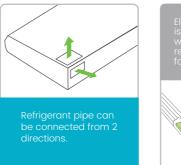


Configured with low noise high performance centrifugal fans, has big air flow and long distance air supply.

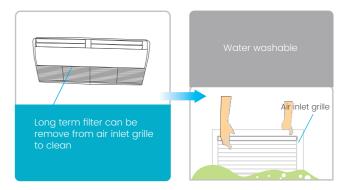
3 dimensional air supply, wide air supply angle, easily supply to every

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

Easy for installtion







Two kinds of grilles for selection





-Specification-

			Cap	acity		Power input	Air	flow		Dimensio	n(WxHxD)	Body \	Weight	Connectir		g pipe	
Model name	Power type	Co	oling	He	ating	Power Input	All	HOW	Sound Level	Packing	Body	Net	Gross	Gas	Liquid	Drain	Standard controller
		kW	kBtu/h	kW	kBtu/h	kW	M³/h	CFM	DB(A)	mm	mm	kg	kg	mm	mm	mm	Controller
•				•										•		•	
GCHV-V36UA/HRI-LDBA	50Hz	3.6	10.0		10.7												
GCHV-V36UA/HNR1-LDBA	60Hz	3.6	12.3	4.0	13.7	0.085	620	360	37~42	1130	1050						
GCHV-V45UA/HR1-LDBA	50Hz	4.5	15.3	5.0	17	0.065	620	300	3/~42	X	x 675	00.5	21.0	Ф10.7	DC 3E	DN20	
GCHV-V45UA/HNR1-LDBA	60Hz	4.5	10.0	5.0	17					765 x	6/5 X	26.5	31.0	Ф12.7	Ф6.35	DN20	
GCHV-V56UA/HR1-LDBA	50Hz	5.6	19.1	6.3	21.4	0.110	800	470	37~47	330	235						
GCHV-V56UA/HNR1-LDBA	60Hz	5.0	13.1	0.5	21.4	0.110	800	4/0	3/~4/								
GCHV-V71UA/HR1-LDBB	50Hz	7.1	24.2	8.0	27.2		1200			1380	1300						
GCHV-V71UA/HNR1-LDBB	60Hz	7.1	24.2	0.0	21.2	0.095		706	706 45~51	x 765	x 675 x	32.0	37.0				
GCHV-V80UA/HR1-LDBB	50Hz	8.0	27.2	8.8	30	0.095		700		x		32.0	37.0				
GCHV-V80UA/HNR1-LDBB	60Hz	0.0	27.2	0.0	30					325	235						Remote
GCHV-V90UA/HR1-LDBC	50Hz	9.0	30.7	10.0	34.1									⊅ 1E 00	Ф9.52	DN20	controller
GCHV-V90UA/HNR1-LDBC	60Hz	5.0	30.7	10.0	34.1	0.160	1600	940	45~50					Ψ15.88	Ψ9.52	DN20	
GCHV-V112UA/HR1-LDBC	50Hz	11.2	38.2	12.5	42.6	0.100	1000	540	40.00	1750	1670						
GCHV-V112UA/HNR1-LDBC	60Hz	11.2	30.2	12.5	42.0					x 765	x 675	41.0	47.0				
GCHV-V140UA/HR1-LDBC	50Hz	14.0	47.7	15.0	51.1					Х	X	41.0	47.0				
GCHV-VI40UA/HNRI-LDBC	60Hz	14.0	47./	10.0	UI.I	0.000	0000	1177	45 54	325	235						
GCHV-V160UA/HR1-LDBC	50Hz	16.0	54.5	17.0	58	0.200	2000	11//	77 45~54								
GCHV-VI60UA/HNRI-LDBC	60Hz	10.0	54.5	17.0	90												

Notes:

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



· Features ·

Accessories

Plenum box	Air filter	EXV	Drain pump	AC motor	DC motor
Standard	Optional	Standard	Optional	Standard	1



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.

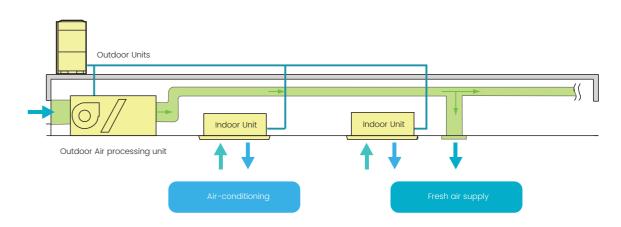


High external static pressure

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

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.

Specification

			Cap	acity		Power		flow	Sound	ESP		Dimens	sion(WxHxD)		Body	Weight	Co	nnectin	g pipe	
Model name	Power type	Со	oling	Hed	ating	input	AIF	now	Level	ESP	Packing	Body	Panel packing	Panel	Net	Gross	Gas	Liquid	Drain	Standard controlle
×		kW	kBtu/h	kW	kBtu/h	kW	M³/h	CFM	DB(A)	Pa	mm	mm	mm	mm	kg	kg	mm	mm	mm	V
CMV-VI40TF/HRI-B	50Hz	14.0	47.7	9.0	30.7	0.45	1400	820	42~48	220	1245 x 445	1190 x 370			47	51	Φ15.88	Φ9.52	ОДФ25	
CMV-VI40TF/HNRI-B	60Hz	14.0	47.7	3.0	30.7	0.43		020	42.40	220	x 655	x 620								
CMV-V224TF/HR1-B	50Hz	22.4	76.4	16.0	54.5	1.20	2000	1170	45~52	220	1510 x 490	1465 x 448			102	106				
CMV-V224TF/HNR1-B	60Hz										x 870	X 811								
CMV-V280TF/HR1-B	50Hz	28.0	95.5	20.0	68.2	1.20	2800	1640	45~52	220	1510 x 490	1465 x 448	,	/	102	106	Ф22.2	Ф12.7	ОДФ30	Wired controller
CMV-V280TF/HNR1-B	60Hz										x 870	X 811		,						Controller
CMV-V450TF/HZRI	50Hz	45.0	153.5	31.4	107.1	1.60	4000	3520	58	300	2200 x	2165 X			222	260				
CMV-V450TF/HXR1	60Hz										710 x 1018	676 x 916					+00-			
CMV-V560TF/HZR1	50Hz	56.0	191.0	39.0	133.0	2.50	6000	4700	62	300	2200 X	2165 X			222	260	Φ28.6	Φ15.88	ОДФ32	
CMV-V560TF/HXRI	60Hz										710 x 1018	676 x 916								

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

- 2.Cooling test condition: Indoor and outdoor side 33°C DB, 28°C WB. Heating test condition: Indoor and outdoor side 0°CCB, -2.9°C WB.
- 3. Sound level: measured at a point 1 min 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 •

How it works

-Specification-

Supspended type specification

Model name	Air flow	ESP	Power input	Power suppy	Temperatur efficie	re exhanging ncy(%)		exhanging ncy(%)	Noise	Body dimension (WxDxH)	Weight
<u> </u>	M³/h	Pa	w	(v)	Cooling	Heating	Cooling	Heating	dB(A)	mm	kg
QR-X02D	200	75	65	-	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	220V/IN/50Hz	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-XI3D	1300	150	530		60.0	65.0	50.0	55.0	45	1116x1134x388	82
QR-XI5DS	1500	160	1000		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	380V/3N/50Hz	60.0	65.0	50.0	55.0	60	1330x1725x1050	265
QR-X50DS	5000	240	3000	3007/31/3012	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 •





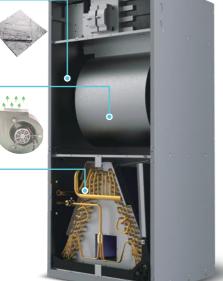
Co

"A" shape coils, constructed with copper tubing and enhanced aluminum fins.



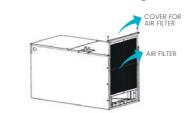








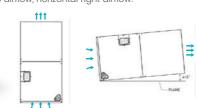
Detachable air filter for cleaning or renewal.





Multi-position installation

Versatile 4-way convertible design for vertical up airflow, horizontal right airflow.



*Note:Installation of vertical up airflow and horizontal right airflow needs to be customized.

Specification -

			Сар	acity		Power	Air	flow	Sound	ESP	Dimensio	on(WxHxD)	Body	Weight	Co	nnectin	g pipe	Chandand
Model name	Power type	Со	oling	He	ating	input	All	IIOW	Level	ESF	Body	Packing	Net	Gross	Gas	Liquid	Drain	Standard controller
		kW	kBtu/h	kW	kBtu/h	W	M³/h	CFM	DB(A)	Pa	mm	mm	kg	kg	mm	mm	mm	
CMV-V7lAH/HNRl	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
CMV-VI05AH/HNRI	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
CMV-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 min 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.



Wireless Controllers



Wired Controllers



Touch Screen Wired Controller



Simple Centralized Controller



- Easy to install. Controller connects to outdoor units only.
- 1 Controller can control max. 100 indoor units.
- Mode lock function, user can lock the running mode of indoor unit.
- Build in Modbus protocol.

Smart Manager

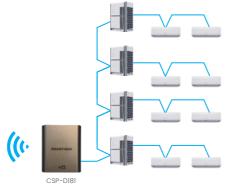
• Available on iOS and Android



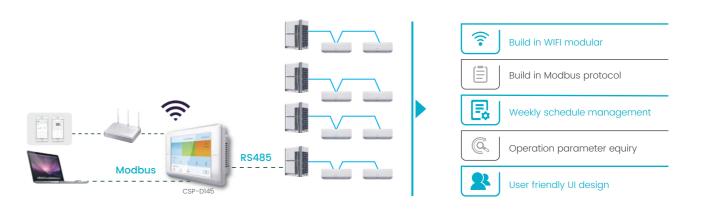
• Remote control via cloud server



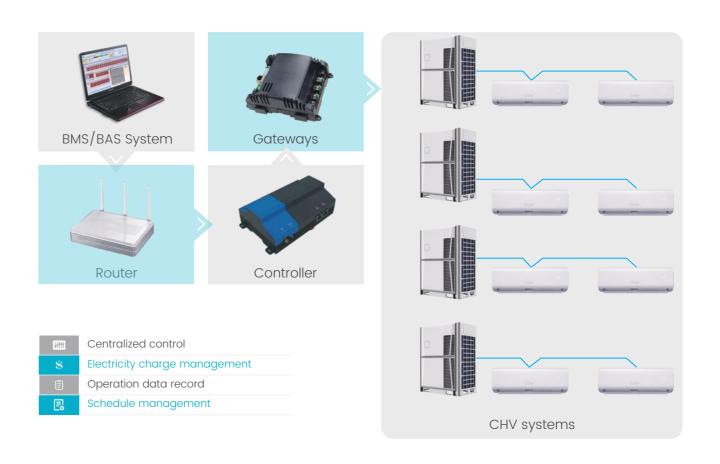
- Single unit controller or group control
- Weekly schedule management
- 100 indoor units can be controlled
- Operation parameter enquiry



Touch Screen Centralized Controller



CHV-NET(Centralized Control System)

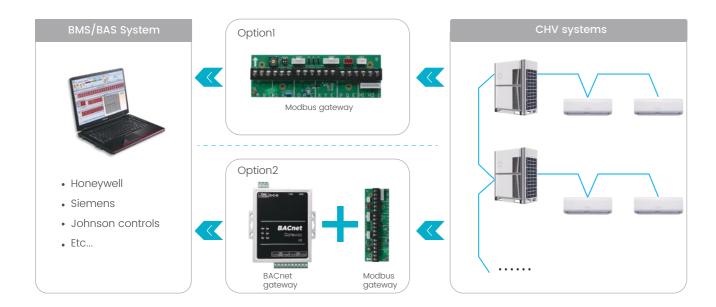


57

BMS Gateway

Modbus gateway | Independent Modbus Box or built-in with outdoor unit.

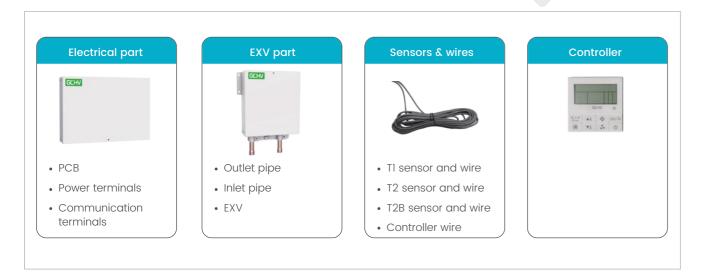
BACnet gateway | Connect with Modbus gateway, use BACnet IP protocol.

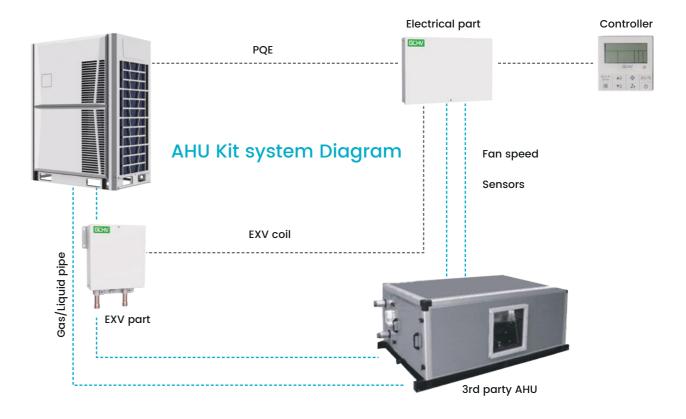


AHU Connection Kit

- GCHV AHU kit is an interface that allows 3rd party manufacturer's AHU connecting to GCHV VRF outdoor units.
- No address limit and automatic addressing.
- Split type, convenient for installation.
- One electrical part has one address and can max. connect 4 EXV parts.
- One AHU kit can max. connect up to 120HP.

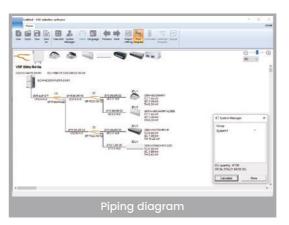
GCHV AHU Kit



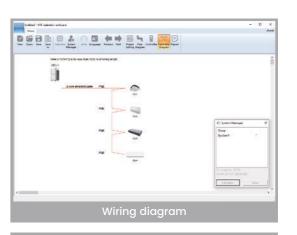


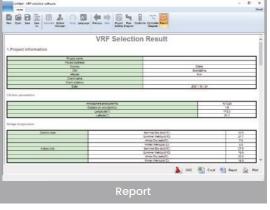
VRF Selection Software

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.









PROJECTS









61

PROJECTS

