





Production Capacity

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

Packing Robot

MES System

Quality Superiority



hasHCHVestablishedastrictandscientific quality management system with supplier quality assurance, incoming quality control, process quality control and final quality control to ensure the highest quality of the

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.

















































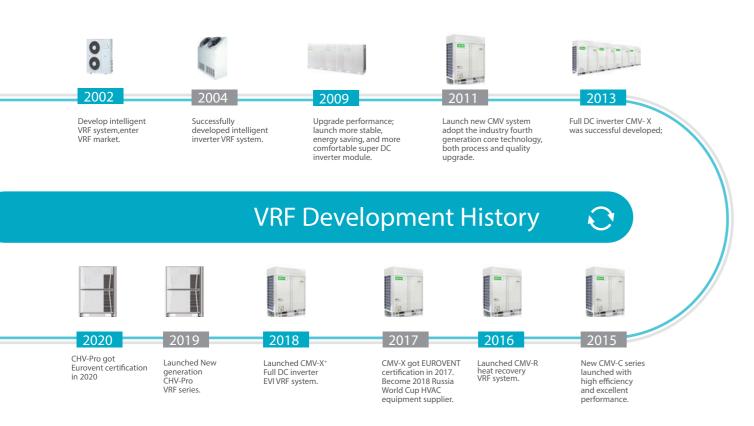
The R&D center of HCHV has more than 200 technical engineers, carry out technology collaboration and joint research with postdoctoral research workstations and Guangdong enterprise workstations, at the same time, introducing senior technical experts from Japan to join HCHV and served as senior technical 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, HCHV has established a solid development foundation and strength in performance, structure, electronic control, industrial design and other professional aspects.

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

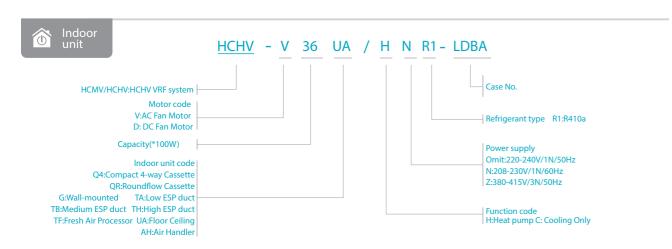


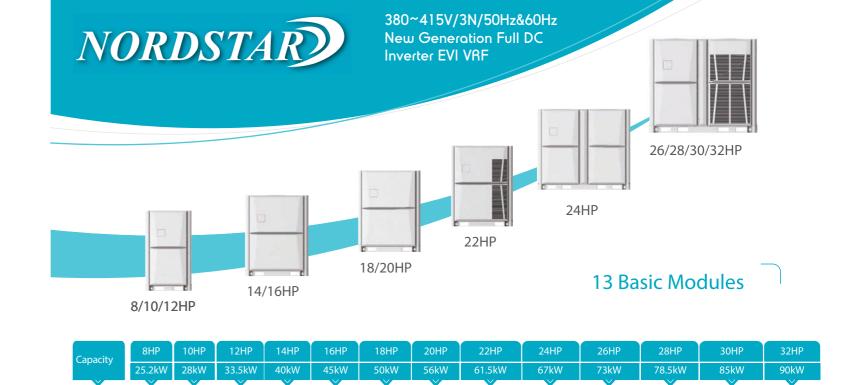
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How To Read The Model Name





DC

DC

DC

DC

DC

DC

DC+DC

DC

DC+DC

DC

DC+DC



- 01 02



Combination Table

	G 11													
НР	Cooling Cap.(kW)	8HP	10HP	12HP	14HP	16HP	18HP	20HP	22HP	24HP	26HP	28HP	30HP	32HP
~	Cupi(itt)	Y	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	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													•••

*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

The total pipe length	1000 m	
The longest pipe length	200 /240m	The longest Height difference between outdoor
Height difference	Outdoor unit above <100m Outdoor unit below <110m	pipe 200/240m unit and indoor units: 100/110m
Height difference between indoor units	▶ 40m	
Length from first indoor distributor to last indoor unit	90 m	Length from 1st distributor to indoor units: 40m
Communication wire length	can be up to 1000m.	
*Please refer to the installation manual for o	detailed length description.	

• Features

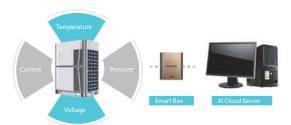
Long Distance Remote Control

Long distance remote control by phone or tablet.



Malfunction Forecasting

- $\bullet\,$ 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

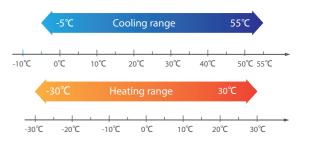
We use refrigerant to cool down inverter modular board to keep it in a safe condition even when outdoor temperature is up to 55℃.





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℃.



*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:



Insufficient Slightly insufficient Normal

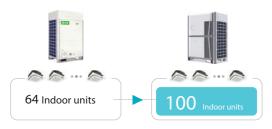
Slightly excess



Features



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





Electrical Lock Function(optional)

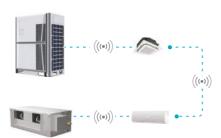


In case of end user doesn't pay as contract, electrical lock function can be used to stop VRF system, and end user can not start the system without

System can be unlock with password by authorized technician.

((•)) 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





Service Window On Front Cover

and setting is now easy, no need to remove the 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.

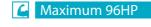




13 Basic Modules







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.



High Efficiency

Benefits For Users



Benefits For Installers

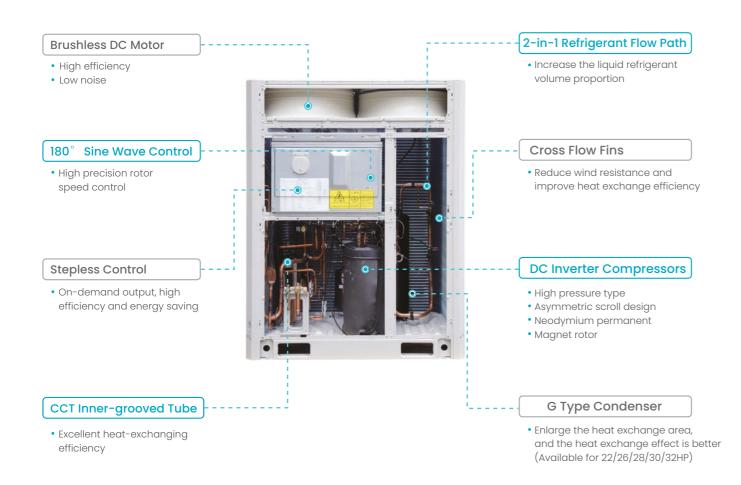
Advantages



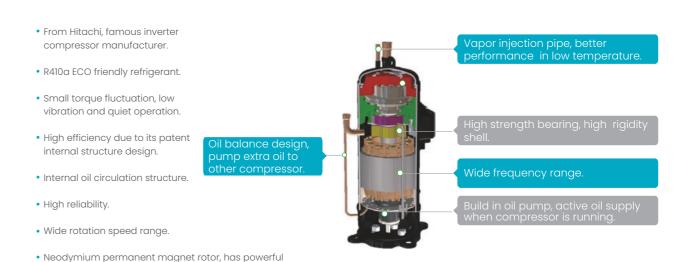




Core Technologies Make High Efficiency



High Efficiency DC Inverter Compressor

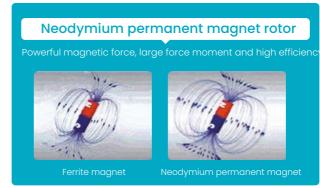


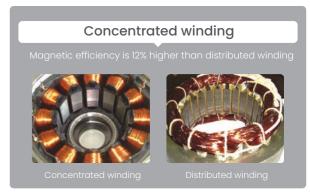


magnetic force, large torque and high efficiency.

• High pressure chamber

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



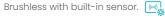




High Efficiency DC Motor

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

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



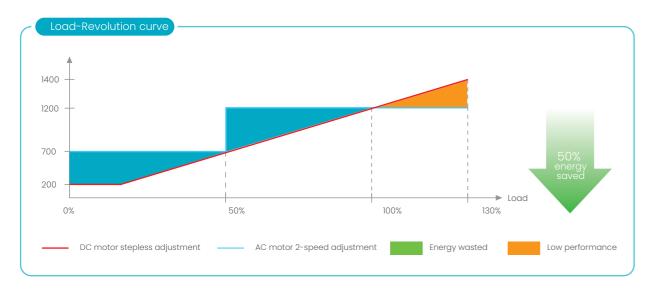






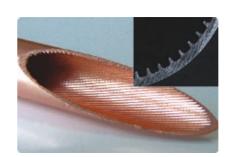
Stepless Control

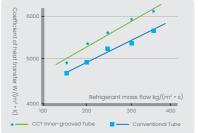
DC fan motor can be stepless contolled by outdoor PCB according to system's operating pressure. And it is able to reduce the energy consumption and maintain the system in the best performance.

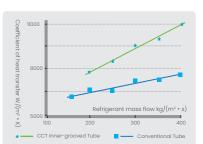


CCT Inner-grooved Tube

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.

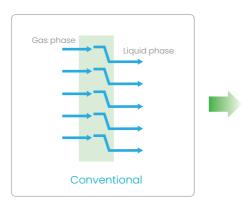


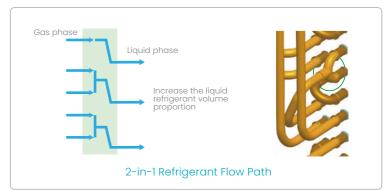


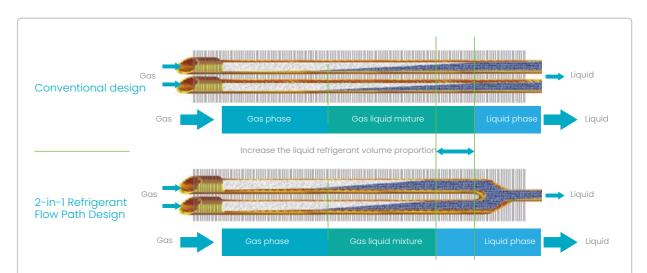


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2-in-1 Refrigerant Flow Path Design







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%.



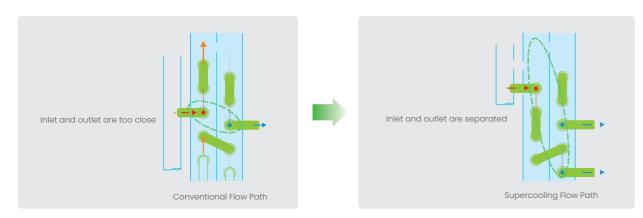
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Supercooling Flow Path Design

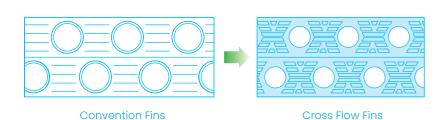
Supercooling flow path design, separates the refrigerant inlet and outlet, increase the supercooling degree, reduce the effect of high temperature inlet gas refrigerant to low temperature outlet liquid refrigerant, therefore, the system efficiency will be greatly increased.

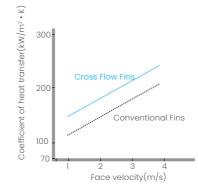




Cross Flow Fins

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



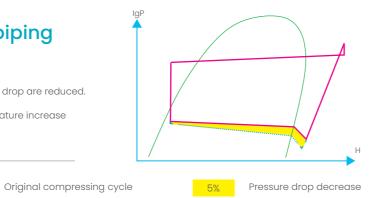




Low Resistance Internal piping

- 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 ______ C





The PHE Economizer

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

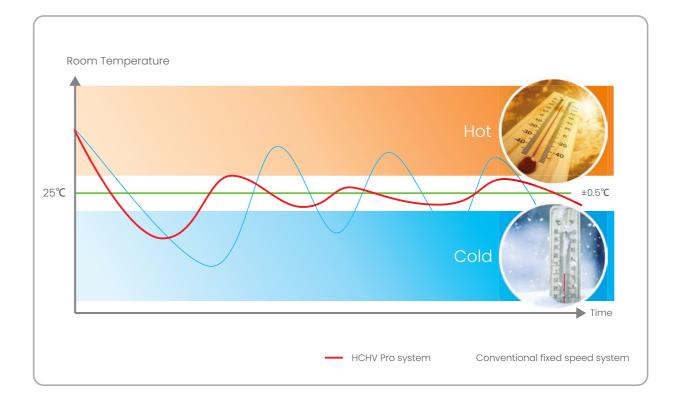






Outstanding Comfort Ability

- HCHV Pro VRF 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.





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Wide Operation Range

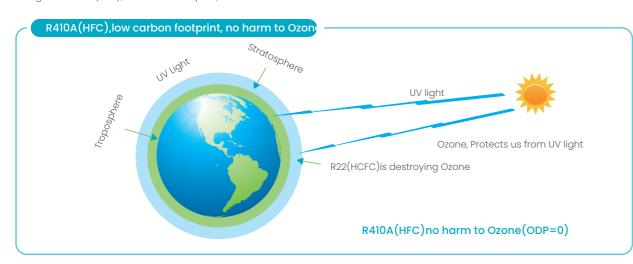
HCHV pro has a wide ambient temperature operation range, cooling at -5-55℃, and heating at -30-30℃.





Environment Friendly

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





Snow-proof Function

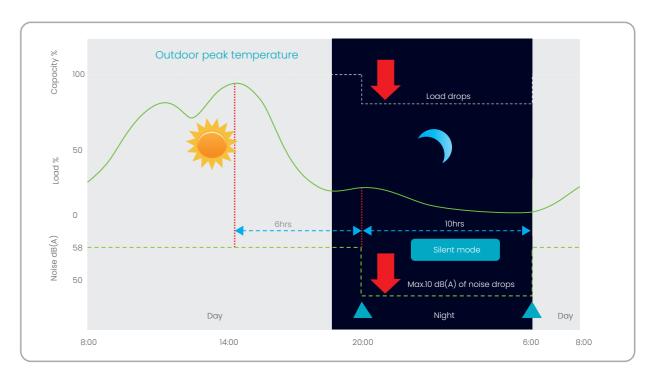
In the cold weather, outdoor fan will start to run for a while at intervals to
prevent the snow to accumulate on fan blade, because accumulated snow
will freeze and block fan blade rotating, even worse it will damage the motor.





Silent Mode, Night Time Noise Control

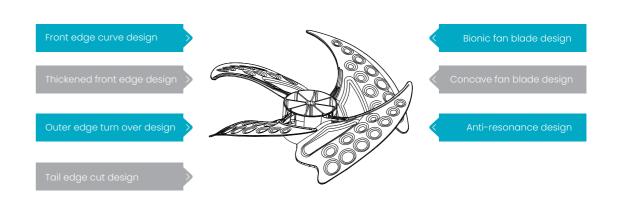
- Compressor and fan motor rotating speed can be reduced to lower the noise at night.
- Maximum 10dB(A) decrease.





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 settings.

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



Start order:B→C→A



3rd Cycle Start order:C→A→B

- In one combination system, any outdoor unit can run as master unit.
- · Cycle operation equalizes the running time of the outdoor units, greatly extending the lifespan of outdoor units in one system.



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

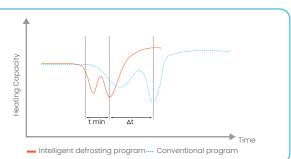
The dedicated temperature sensor monitors the temperature of the condenser coil of the outdoor unit in real time, intelligently selects the defrost mechanism and judges the timing of defrost, effectively prolongs the normal heating time, improves comfort, and achieves energy-saving effects.

- 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







Benefits For Installers

Optimization for designer and installer

HCHV Pro DC inverter VRF system is designed with flexible modular combination concept, we keep optimizing the module size, reduce equipment on space occtupied 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.



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

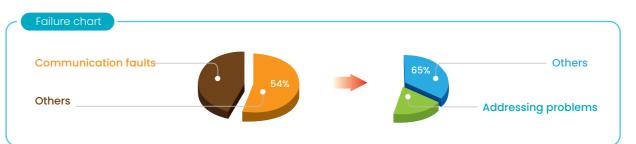


- 2 addressing methods:
- Automatically addressing: system will distribute address to indoor unit automatically.
- Manually setting by wired controller or wireless remote controller
- Addressing method can be selected easily by adjusting the switch on outdoor PCB.



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.





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.



7

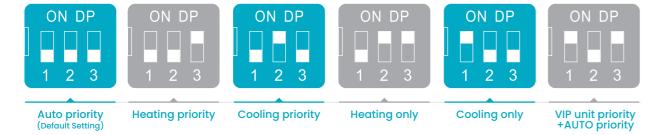




Mode Restriction

- 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

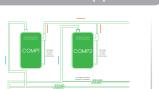




oil separator

3rd stage

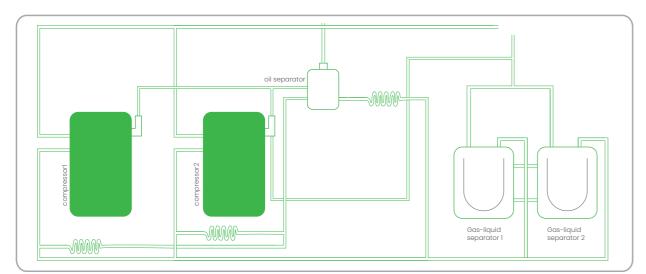






Intellingent oil return program







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.

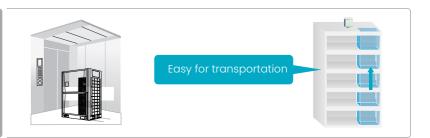


3-Phase Power Protector(Optional)





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;



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



N	Model Name		HCHV-E252W/	HCHV-E280W/	HCHV-E335W/	HCHV-E400W/	HCHV-E450W/				
Power Supply	380~415V/3N/50&6	50Hz	HZR1-DK01	HZR1-DK01	HZR1-DK01	HZR1-DM01	HZR1-DM01				
	<u> </u>										
Performance Dat	ta										
		HP	8HP	10HP	12HP	14HP	16HP				
	Capacity	kW	25.2	28.0	33.5	40.0	45.0				
	, ,	Btu/h	86000	95500	114000	136500	153500				
Cooling		RT	7.2	8.0	9.5	11.4	12.8				
	Rated current	А	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	А	8.93	11.25	14.34	18.00	20.25				
	Power input	kW	4.98	5.86	7.35	9.34	10.87				
	СОР	W/W	5.50	5.38	5.10	4.82	4.60				
Max. input consu	mption	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 adjustr					50%~130%						
Compressor Date											
_	Quantity				1						
Compressor	Туре				Scroll Compressor						
Dharais al Darka	Brand				HITACHI						
Physical Data	-				V						
Dofrigorant	Туре	Va			R410a	14					
Refrigerant	Volume	Kg	9	3	11	14					
Discounting	Throttle type	mm		990x1740x840	EXV	10.40-37.4	0-040				
Dimension (WxHxD)	Net					1340x1740					
	Packing Net	mm	00	1060x1900x910	220	1410x1900					
Weight	Gross	Kg Kg	22		230	275					
Outdoor sound le		dB(A)	5		60	60	61				
Max. operating ro		Мра	J	0	4.5	00	OI .				
Piping Data	9-										
	Liquid pipe	mm		Ф12.7		Φ1	5.88				
Pipe size	Gas pipe	mm		Ф22.2			28.6				
	Total pipe length	m		1000		10	000				
	ODU to farthest IDU (Acual length)			200			200				
Max. pipe length	ODU to farthest IDU (Equivalent length)	m		240		2	240				
	1st IDU distributor to farthest IDU	m		40/90		40	0/90				
	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 Tempe											
Cooling	Outdoor side	${\mathbb C}$		-5~55			~55				
	Indoor side	℃		16~32			3-32				
Heating	Outdoor side	℃		-30~30			0~30				
	Indoor side	℃		16~32		16	~32				

Note	

HCHV-E500W/	HCHV-E560W/	HCHV-E615W/	HCHV-E670W/	HCHV-E730W/	HCHV-E785W/	HCHV-E850W/	HCHV-E900
HZR1-DM01	HZR1-DM01	HZR1-DM01	HZR1-DS01	HZR1-DS01	HZR1-DS01	HZR1-DS01	HZR1-DS01
×	×	×	×	×	×	×	×
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	28.65	30.28	33.38	38.52	43.9
11.89	14.16	16.80	14.72	16.78	18.50	21.35	24.33
4.71	4.45	4.11	5.10	4.86	4.73	4.45	4.11
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
57.4	71.1	72.1	50%~1		01.0	00.4	00.0
			V				
	1				2		
	Scroll Compressor				Scroll Compressor		
	HITACHI				HITACHI		
15		16	K4	110a			23
15	EVA /	Ib		20		-	23
	EXV 1340x1740x840				EXV		
					1990x1740x840		
005	1410x1900x910	007	200	40	2060x1900x910		00
285	290	297	388	43			80
303	308	315	406	45			.98
62	6	3	62	6	3		64
			4.!				
		5.88				2.2	
		28.6				5.0	
	10	00			10	00	
	2	00			20	00	
	24	40			24	40	
	40,	/90			40,	/90	
	10	00			10	00	
		10				0	
		10				0	
		0)	
	~	· · · · · · · · · · · · · · · · · · ·			~	· · · · · · · · · · · · · · · · · · ·	
		-55			-5-		
	-5^	JU			-5~	JJ	
		~37			10	-32	
	16-	~32			16- -30	-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 from -30 C to 30 C.

2. The cooling conditions: indoor side 20 C (80.6 T) DB, 19 C (60 T) WB outdoor side 35 C (95 T) DB.

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

4. Sound level: measured at a point 1 m in front of the unit at a height of 15 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.





9 Models

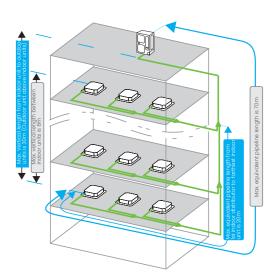
Capacity	12.5kW	14kW	16kW	18kW	20kW	22.4kW	26kW	28kW	33.5kW
Compressor	DC	DC	DC	DC	DC	DC	DC	DC	DC
Fan motor	DC+DC	DC+DC	DC+DC	DC+DC	DC+DC	DC+DC	DC+DC	DC+DC	DC+DC



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

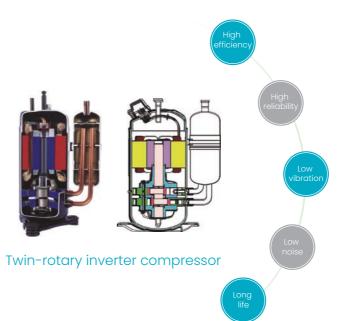
^{*}Please refer to the installation manual for detailed length description.



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



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.

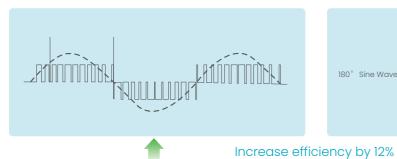


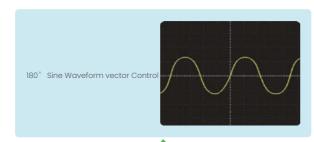




180° Sine Wave Control

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%.



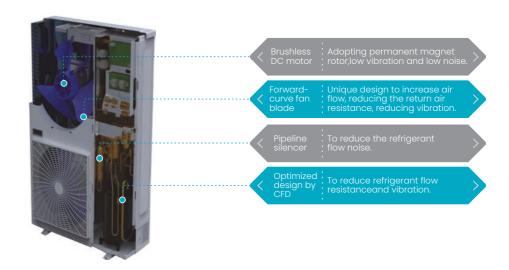






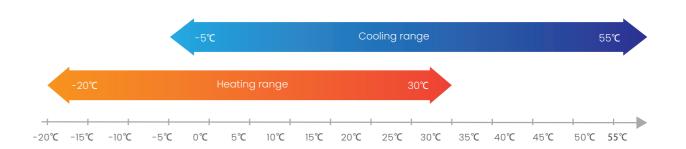


Silent Technology



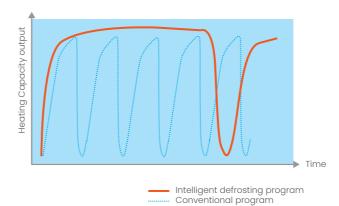
Wide Outdoor Operation Range

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











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.
 - VIP unit priority+AUTO priority mode
- First start mode
- Mode restriction function can be selected on the outdoor PCB.

















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℃ ambient temperature.



Automatically Addressing

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





Independent Display Board

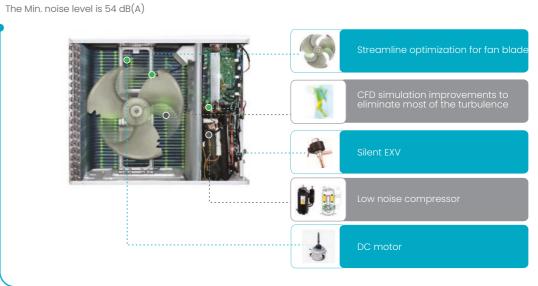


Digital display on the PCB, it can show system's operation status and error codes.



Lower Noise













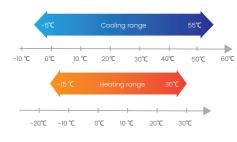
8 / 10 / 12.5 / 14 / 16kW Smaller size, higher efficiency



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℃.
- 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.





HCHV-Mini

				Cooling			Н	eating		Comp	ressor	Mo	tor	Refric	erant	Sound pressure	Dime (WxF	nsion xD)	We	ight	Conne	ecting	Max
Model name	Power type	Co	pacity	Power input		Ca	pacity	Power input						- · · · ·	Volume		Packing	Body	Net	Gross	Gas	Liquid	
	(V/N/HZ)	kW	Btu/h	kW	EER	kW	Btu/h	kW	COP	туре	Qty	Туре	Qty	Туре	kg	DB(A)	mm	mm	kg	kg	mm	mm	units quant
HCHV-D125W/HZR1-050D	380-415/3/50	12.5	42000	3.38	3.70	14	47000	3.26	4.29						3.45	56	1010	975	86.6	96.4			7
HCHV-D140W/HZR1-050D	380-415/3/50	14	47800	3.80	3.68	16	54000	3.97	4.03						3.8	56	X 1445	x 1335	86.6	96.4	Ф15.88		8
HCHV-D160W/HZR1-050D	380-415/3/50	16	54000	4.53	3.53	18	61000	4.61	3.91						3.8		x 415	x 400	90.1	100			9
HCHV-D180W/HZR1-050D	380-415/3/50	18	61000	5.18	3.47	20	68000	5.02	3.98	DC/		DC/			4.2	58	410	400	94.7	104.4		Φ9.52	10
HCHV-D200W/HZRI-080	380-415/3/50	20	68200	5.92	3.38	22	75000	5.35	4.11	Twin	1	fan motor	2	R410a	5.3	36	1095x 1545x	1015x 1430x	112.7	126.8	Ф19.05		11
HCHV-D224W/HZR1-080	380-415/3/50	22.4	76400	6.75	3.32	24	81800	5.62	4.27	rotary		HIOLOI			5.3		485	450	112.7	126.8			13
HCHV-D260W/HZR1-100	380-415/3/50	26	88700	7.54	3.45	28.5	97200	6.77	4.21						6.1		1278	1120	142	162			15
HCHV-D280W/HZR1-100	380-415/3/50	28	95500	8.31	3.37	31.5	107500	8.18	3.85						8.0	60	1703	1549	154	174	Ф22.2	Ф12.7	16
HCHV-D335W/HZR1-100	380-415/3/50	33.5	114300	9.46	3.54	37.5	128000	8.99	4.17						8.0		560	528	154	174		Ψ12.7	19

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

2.Heating Operation Conditions: Indoor Air Inlet Temperature: 20.0°C DB,Outdoor Air Inlet Temperature: 7°C DB / 6°C WB

-HCHV-Mini-

Model	l name		HCHV-DH080W/R1	HCHV-DH100W/R1	HCHV-DH125W/R1	HCHV-D125W/HZR1-D01	HCHV-DH140W/R1	HCHV-D140W/HZR1-F01	HCHV-DH160W/R1	HCHV-D160W/HZR1-F01
моде	name		HCHV-DH080W/NR1	HCHV-DH100W/NR1	HCHV-DH125W/NR1	HCHV-D125W/HYR1-D01	HCHV-DH140W/NR1	HCHV-D140W/HYR1-F01	HCHV-DH160W/NR1	HCHV-D160W/HYR1-F01
Power supply			220 ~240 V/IN/50 Hz	220~240 V/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/IN/60Hz	380~415V/3N/60Hz	208~230V/1N/60Hz	380~415V/3N/60Hz	208~230V/1N/60Hz	380~415V/3N/60Hz
	V				~			~	~	
Performo	ance data		~							
	Community	kW	8	10	12.5	12.5	14	14	16	16
	Capacity	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	А	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
		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
3	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	ssor data	,	~							
	Quantity		1	1	1	1	1	1	1	1
DC Inverter	Type		Twin-rotary							
compressor	Brand		Mitsubishi	GMCC	Mitsubishi	Highly	Mitsubishi	Highly	Mitsubishi	Mitsubishi
Fan data	1		~			~		~		
	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 Quantity		1	1	1	1	1	1	1	1
Fan blade	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
Odtaooi coii	Tube type		Inner-grooved copper tube							
D. fri	Type		R410a							
Refrigerant	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
Mainh	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 lev		dB(A)	≤54	≤56	≤56	≤56	≤57	≤57	≤57	≤57
	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
ricating	Odlubbi Side	C	-15~30	-10~30	-15~30	-10~30	-10~30	-10~30	-10~30	-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 12m. 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 at performance.



Indoor Units line Up

INDOOR UNITS



Capacity (kW)	Wall-mounted	Floor Ceiling	Short ceiling concealed ducted unit	Medium ESP ducted unit	High ESP ducted unit	Fresh air processor
(kw)						
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					•	•





Features•

Accessories

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

Wide air delivering

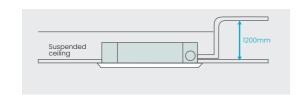
Air flow is soft and smooth, air can be delivered to every corner without dead angle, it makes the room temperature distribution more balance.



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.



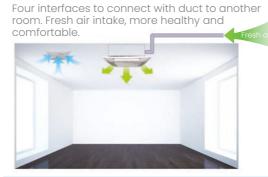


Space saving installation

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



Fresh air intake





Specification -

4-way Cassette Unit(Compact type)

			Сар	acity		Power			Sound			Dimens	sion(WxHxD)		Body '	Weight	Co	nnectin	g pipe	
Model name	Power type	Со	oling	Hed	ating	input	Air	flow	Level	ESP	Packing	Body	Panel packing	Panel	Net	Gross	Gas	Liquid	Drain	Standard controller
	7,53	kW	kBtu/h	kW	kBtu/h	kW	M³/h	CFM	DB(A)	Ра	mm	mm	mm	mm	kg	kg	mm	mm	mm	
HMV-V22Q4/HRI-C	50Hz	0.0	7.5	0.5	0.5	0.000	4.47	000	00.04						17.5	00				
HMV-V22Q4/HNR1-C	60Hz	2.2	7.5	2.5	8.5	0.038	447	263	22~34						17.5	23	Ф9.52			
HMV-V28Q4/HRI-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			
HMV-V28Q4/HNR1-C	60Hz	2.8	9.5	3.2	10.9	0.038	447	203	22~34	,	x 375	x 267	x 95	x 30	17.5	23		Ф6.35	00405	Remote
HMV-V36Q4/HR1-C	50Hz	3.6	12.2	4.0	13.6	0.040	515	303	27~38	/	X	X	X	X	17.5	23		Ψ0.35	OD Φ 25	controller
HMV-V36Q4/HNR1-C	60Hz	3.0	12.2	4.0	13.0	0.040	313	303	2/~30		680	585	750	650	17.5	23				
HMV-V45Q4/HR1-C	50Hz	4.5	15.3	5.0	17	0.040	515	303	27~38						17.5	23	Ф12.7			
HMV-V45Q4/HNR1-C	60Hz	4.0	10.0	0.0	1/	0.040	510	303	21.130						17.5	23				

Round-flow Cassette

			Сар	acity		Power	Air	flow	Sound	ESP		Dimensi	on(WxHxD)		Body	Weight	Co	nnectin	g pipe	
Model name	Power type	Cod	oling	Hec	iting	input	AIF	TIOW	Level	ESP	Packing	Body	Panel packing	Panel	Net	Gross	Gas	Liquid	Drain	Standard controller
v	V	kW	kBtu/h	kW	kBtu/h	kW	M³/h	CFM	DB(A)	Pa	mm	mm	mm	mm	kg ~	kg	mm	mm	mm	V
HMV-V56QR/HR1	50Hz	5.6	19.1	6.3	21.4	0.043	860	500	32~39								410.7	Ф6.35		
HMV-V56QR/HNR1	60Hz	5.6	19.1	6.3	21.4	0.043	860	500	32~39		920	833			24	30	Ф12.7	Ψ6.35		
HMV-V71QR/HR1	50Hz	7.1	24.2	8.0	27.2						x 265	x 232			24	30				
HMV-V71QR/HNR1	60Hz	7.1	24.2	8.0	21.2	0.093	1200	700	35~39		x 985	x 900			24	30				
HMV-V80QR/HR1	50Hz	8.0	27.2	8.8	30	0.000	1200	700	35~38		980	900			24	30				
HMV-V80QR/HNR1	60Hz	8.0	21.2	0.0	30										24	30				
HMV-V90QR/HR1	50Hz	9.0	30.7	10.0	34.1										28.5	35				
HMV-V90QR/HNR1	60Hz	9.0	30.7	10.0	34.1								1030	950	28.5	35				
HMV-V100QR/HR1	50Hz	10.0	34.1	11.0	37.5					,			X	X	28.5	35			* 0 =	Remote
HMV-V100QR/HNR1	60Hz	10.0	34.1	11.0	37.0					/			100 X	50 x	20.0	30	Φ 1Ε 00	Ф9.52	Ф25	controller
HMV-V112QR/HR1	50Hz	11.2	38.2	12.5	42.6		1400	820	37~41		920	833	1030	950	28.5	35	Ψ15.00	Ψ9.52		
HMV-V112QR/HNR1	60Hz	11.2	30.2	12.0	42.0	0.160					x 310	x 286			20.0	30				
HMV-V125QR/HR1	50Hz	12.5	42.6	14.0	47.7	0.100					x 985	x 900			28.5	35				
HMV-V125QR/HNR1	60Hz	12.0	42.0	I~+.U	47.7										20.0	35				
HMV-V140QR/HR1	50Hz	14.0	47.7	15.0	51.1										28.5	35				
HMV-V140QR/HNR1	60Hz	14.0	47.7	13.0	31.1		1800	1050	38~46						28.5	35				
HMV-V160QR/HR1	50Hz	16.0	54.5	17.0	58		1000	1050	30~40						28.5	35				
HMV-V160QR/HNR1	60Hz	10.0	54.5	17.0	28										28.5	35				

Notes:

LPower 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.

2.Sound level recovered at a point lamin front of the unit at a bright of 15m During actual proportion those values are purposed.

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

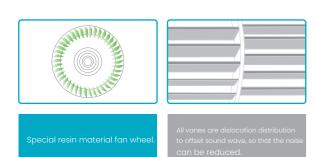
Air return method is optional by actual installation, from rear or from bottom.





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.





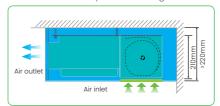






Slim body, easy to install

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











Specification-

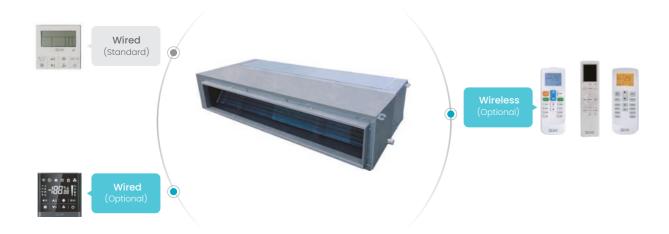
			Сар	acity		Rated	A:	flow	Sound	ESP		Dimensi	ion(WxHxD)		Body	Weight	Со	nnectin	g pipe	
Model name	Power type	Co	oling	Не	ating	input	AII	TIOW	Level	ESP	Packing	Body	Panel packing	Panel	Net	Gross	Gas	Liquid	Drain	Standard controller
· ·		kW	kBtu/h	kW	kBtu/h	kW	M³/h	CFM	DB(A)	Pa	mm	mm	mm	mm	kg	kg	mm	mm	mm	
HMV-V22TA/HRI-C	50Hz	_		_	Ť	_	Ť	Ť							Т					
HMV-V22TA/HNR1-C	60Hz	2.2	7.5	2.5	8.5										16.0	18.5	Ф9.52			
HMV-V28TA/HR1-C	50Hz	2.8	9.5	3.2	10.9	0.08	450	260	24~29		910	814			16.0	18.5	Ψ9.52			
HMV-V28TA/HNR1-C	60Hz	2.0	9.5	3.2	10.8						X	X			10.0	10.0				
HMV-V36TA/HR1-C	50Hz	3.6	12.2	4.0	13.6		550	324	25~32		240 x	210 x			16.5	19.0				
HMV-V36TA/HNR1-C	60Hz	3.0	12.2	4.0	13.0	0.11	550	324	25~52	30	510	467			10.5	19.0		Ф6.35		
HMV-V45TA/HR1-C	50Hz	4.5	15.3	5.0	17	0.11	620	360	32~37	30			/	/	16.5	19.0			ОДФ25	Wired controller
HMV-V45TA/HNR1-C	60Hz	4.5	15.3	5.0	17		020	300	32-37						10.5	19.0	Ф12.7			
HMV-V56TA/HRI-C	50Hz				01.4	010	000	F00	00.00		1110 X 240	1010 X								
HMV-V56A/HNR1-C	60Hz	5.6	19.1	6.3	21.4	0.16	800	520	28~38		240 X 510	210 467			21.0	24.0				
HMV-V7ITA/HRI-C	50Hz	7.1	24.2	8.0	27.2	0.18	1000	640	20.20		1310 X 240	1214 X 210			25.5	28.5	Φ15.00	Ф9.52		
HMV-V71TA/HNR1-C	60Hz		2.7.2	5.0	27.2	0.18	1000	640	30~39		510	467			20.0	20.0	Ψ13.00	Ψ3.52		

- 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

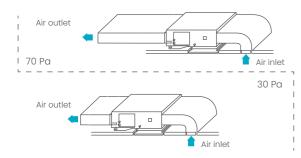
Accessories

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



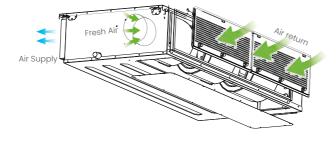
Static pressure

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



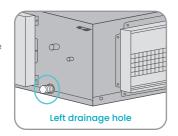
Fresh air intake

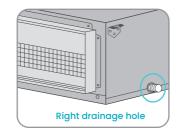
A reserved outside air intake port allows outdoor air to be introduced directly into the unit, no need for a seperate ventilation system.



Convenient in drainage pipe installation

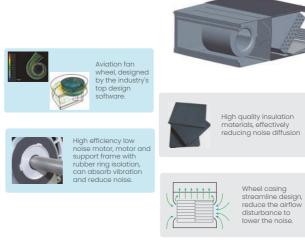
Reserved drainage pipe outlet holes on left side and right side, installer can choose the outlet holes on site as per actual conditions, flexible for drainage pipe installation.

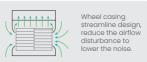




Whole unit low noise design, silent operation

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.



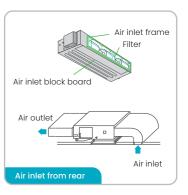


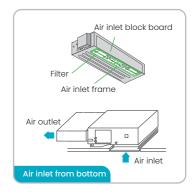
DC fan motor is optional

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
· ·		kW	kBtu/h	kW	kBtu/h	kW	M³/h	CFM	DB(A)	Pa	mm	mm	mm	mm	kg	kg	mm	mm	mm	
an and a complete and	Four	_	_	_	_	_	_	_	_	_	_	_			_	_	_	_	_	_
HMV-V71TB/HR1-B	50Hz	7.1	24.2	8.0	27.2						1255	1209			33	37				
HMV-V7ITB/HNRI-B	60Hz						1220	710	36~41		325	x 260								
HMV-V80TB/HR1-B	50Hz	0.0	07.0	0.0	007		1220	/10	30~41		X 720	x 680			33	37				
HMV-V80TB/HNR1-B	60Hz	8.0	27.2	9.0	30.7						720	080			33	3/				
HMV-V90TB/HR1-B	50Hz														4.0					
HMV-V90TB/HNR1-B	60Hz	9.0	30.7	10.0	34.1	0.40	1850	1080	38~43						46	50	*15.00	* 0 = 0		Wired
HMV-V100TB/HR1-B	50Hz					0.40				70	1490	1445	/	/			Φ15.88	Φ9.52	OD Φ 25	controller
HMV-V100TB/HNR1-B	60Hz	10.0	34.1	11.0	37.5						X	X			46	50				
HMV-V120TB/HR1-B	50Hz						2000	1170	40~44		325 x	260 x								
HMV-V120TB/HNR1-B	60Hz	12.0	40.9	13.0	44.3		2000	11/0	40~44		720	680			46	50				
HMV-VI50TB/HRI-B	50Hz																			
HMV-V150TB/HNR1-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.





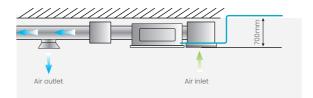
Features•

Accessories

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

S 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





Spiral diffuser







Linear diffuser

High static pressure

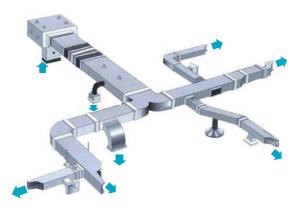
Big air flow with high static pressure, easy for large rooms duct design. Suitable for different shape of rooms.







High static pressure ducted unit



Long distance multi-point air supply

-Specification-

			Cap	acity		Power			Sound	ESP	Dimension	n(WxHxD)	Body	Weight	Col	nnectin	g pipe	
Model name	Power type	Cod	oling	Не	ating	input	Air	flow	Level	ESP	Packing	Body	Net	Gross	Gas	Liquid	Drain	Standard
		kW	kBtu/h	kW	kBtu/h	kW	M³/h	CFM	DB(A)	Ра	mm	mm	kg	kg	mm	mm	mm	
•	. —	_	_	_	_	_	_	•	_	_	_		_	_	_	_	_	_
HMV-V71TH/HR1-B	50Hz	7.1	24.2	7.8	26.6													
HMV-V71TH/HNR1-B	60Hz										1490	1445						
HMV-V80TH/HR1-B	50Hz	8.0	27.2	8.8	30	0.40	1500	880	40~42		x 325	x 260	46	50				
HMV-V80TH/HNR1-B	60Hz			0.0							x 720	x 680						
HMV-V90TH/HR1-B	50Hz	9.0	30.7	10.0	34.1						720	000						
HMV-V90TH/HNR1-B	60Hz	0.0	30.7	10.0	34.1										Φ15.00	Φ0.52	ОДФ25	
HMV-V100TH/HR1-B	50Hz	10.0	34.1	11.0	37.5										Ψ10.00	Ψ 0.02	00420	
HMV-V100TH/HNR1-B	60Hz	10.0	34.1	11.0	37.3						1245	1190						
HMV-V120TH/HR1-B	50Hz	12.0	40.9	13.0	44.3			1050			x 445	x 370	47	51				
HMV-V120TH/HNR1-B	60Hz	12.0	40.9	13.0	44.3	0.50	2300	1350	44~52		X	X	47	31				
HMV-V150TH/HR1-B	50Hz	15.0	F11	17.0	500					150	655	620						Wired
HMV-V150TH/HNR1-B	60Hz	15.0	51.1	17.0	58.0													controller
HMV-V200TH/HR1-B	50Hz	00.0	000	00.0	75.0	170			45.50									
HMV-V200TH/HNR1-B	60Hz	20.0	68.2	22.0	75.0	1.72	4000	2350	45~53		1510x580x870	1465x448x811						
HCHV-D200TH/HRI-F310	50/60Hz	20.0	68.2	22.0	75.0	1.20	3750	2200	45~50		1515x885x580	1440x811x448						
HMV-V250TH/HRI-B	50Hz	05.0	05.0	07.5	000	170	4000	0.470					1					
HMV-V250TH/HNR1-B	60Hz	25.0	85.3	27.5	93.8	1.72	4200	2470	45~54		1510x580x870	1465x448x811	102	113	Ф22.2	Ф12.7	OD Ф 30	
HCHV-D250TH/HRI-F310	50/60Hz	25.0	85.3	27.5	93.8	1.20	3750	2200	46~51		1515x885x580	1440x811x448						
HMV-V280TH/HR1-B	50Hz		05.5		105.0													
HMV-V280TH/HNR1-B	60Hz	28.0	95.5	30.8	105.0	1.72	4400	2580	45~55		1510x580x870	1465x448x811						
HCHV-D280TH/HRI-F3I0	50/60Hz	28.0	95.5	30.8	105.0	1.30	4100	2400	48~52		1515x885x580	1440x811x448						
HMV-V450TH/HZR1-B	50Hz	45.0	1505		1770.5													
HMV-V450TH/HXRI-B	60Hz	45.0	153.5	50.0	170.6	2.60	6000	3520	60		2267 x	2165 x	222	260	D 200	Φ1E 00	ОДФ32	
HMV-V560TH/HZRI-B	50Hz	F0.0	101.0	000	0140					200	840 x	676 x	222	200	Ψ28.0	Ψ10.88	ODΨ32	
HMV-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 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.

Wall Mounted Unit





Features •

Accessories

Plenum box	Air filter	EXV	Drain pump	AC motor	DC motor
1	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.



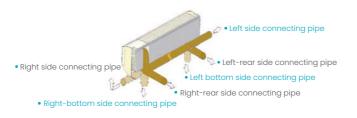
Flexible in installation

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			HCHV-D22G/HR1-GSB	HCHV-D28G/HR1-GSB	HCHV-D36G/HR1-GSB	HCHV-D45G/HR1-GSC	HCHV-D56G/HR1-GSC	HCHV-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
Capacity	Cooling	kW	2.2	2.8	3.6	4.5	5.6	7.1
Сириску	Heating	kW	2.5	3.2	4.0	5.0	6.3	8.0
Power input		W	15	15	18	20	23	35
	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	Φ9.52/Φ15.88
Drainage water pi (Outer diameter)	pe	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.

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

Wall Mounted Unit



Floor Ceiling Unit





Features•

Accessories

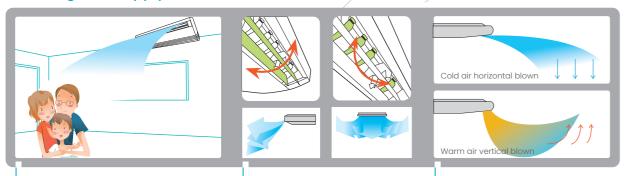
Plenum box	Air filter	EXV	Drain pump	AC motor	DC motor
1	Standard	Standard(built-in)	Optional	Standard	Optional



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



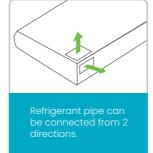
Wide angle air supply



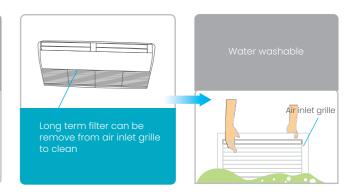
Configured with low noise high performance centrifugal fans, has big air flow and long distance air supply.

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		Dimension	n(WxHxD)	Body '	Weight	Co	nnectin	g pipe	
Model name	Power type	Со	oling	He	ating	Power input	All	IIOW	Sound Level	Packing	Body	Net	Gross	Gas	Liquid	Drain	Standard controller
V	v	kW	kBtu/h	kW	kBtu/h	kW	M³/h	CFM	DB(A)	mm	mm	kg	kg ~	mm	mm	mm	Controller
HCHV-V36UA/HR1-LDBA	50Hz	3.6	12.3	4.0	13.7												
HCHV-V36UA/HNR1-LDBA	60Hz	3.0	12.3	4.0	13.7	0.085	620	360	37~42	1130	1050						
HCHV-V45UA/HRI-LDBA	50Hz	4.5	15.3	5.0	17	0.000	020	300	3/~42	x 765	x 675	26.5	31.0	Ф12.7	Φ6.35	DN20	
HCHV-V45UA/HNR1-LDBA	60Hz	4.0	10.0	5.0	17					/65 X	0/5 X	26.5	31.0	Ψ12.7	Ψ0.33	DNZU	
HCHV-V56UA/HRI-LDBA	50Hz	5.6	19.1	6.3	21.4	0.110	800	470	37~47	330	235						
HCHV-V56UA/HNR1-LDBA	60Hz	5.0	10.1	0.5	21.4	0.110	800	4/0	3/~4/								
HCHV-V71UA/HR1-LDBB	50Hz	7.1	24.2	8.0	27.2					1380	1300						
HCHV-V71UA/HNR1-LDBB	60Hz	7.1	24.2	0.0	21.2	0.095	1200	706	45~51	x 765	x 675	32.0	37.0				
HCHV-V80UA/HRI-LDBB	50Hz	8.0	27.2	8.8	30	0.085	1200	700	45~51	X	X	32.0	37.0				
HCHV-V80UA/HNR1-LDBB	60Hz	0.0	21.2	0.0	30					325	235						Remote
HCHV-V90UA/HR1-LDBC	50Hz	9.0	30.7	10.0	34.1									Φ1E 00	Φ9.52	DN20	controller
HCHV-V90UA/HNR1-LDBC	60Hz	5.0	30.7	10.0	34.1	0.160	1600	940	45~50					Ψ15.88	Ψ9.52	DNZU	
HCHV-V112UA/HR1-LDBC	50Hz	11.2	38.2	12.5	42.6	0.100	1000	040	40 00	1750	1670						
HCHV-V112UA/HNR1-LDBC	60Hz	11.2	30.2	12.0	42.0					x 765	x 675	41.0	47.0				
HCHV-V140UA/HR1-LDBC	50Hz	14.0	47.7	15.0	51.1					X	X	41.0	47.0				
HCHV-V140UA/HNR1-LDBC	60Hz	14.0	47.7	13.0	31.1	0.200	2000	1177	45~54	325	235						
HCHV-V160UA/HR1-LDBC	50Hz	16.0	54.5	17.0	58	0.200	2000	11//	45~54								
HCHV-V160UA/HNR1-LDBC	60Hz	10.0	54.5	17.0	38												

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.

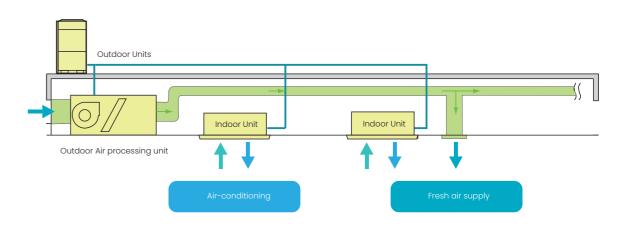


High external static pressure

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

Model name	Power type	Capacity			Power	Air flow		Sound Level	ESP	Dimension(WxHxD)				Body Weigh		Connecting pipe				
		Co	oling	Hed	ating	input	All How		Level	ESF	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	~
HMV-VI40TF/HRI-B	50Hz	14.0	47.7	7 9.0	30.7	0.45	1400	820	42~48	220	1245 x 445	1190 x		1	47	51	Ф15.88	9.52	OD Φ 25	
HMV-V140TF/HNR1-B	60Hz	14.0	47.7								X 655	X X								
HMV-V224TF/HRI-B	50Hz	22.4	76.4	16.0	54.5	1.20	2000	1170	45~52	220	1510 x 490	X			102	106		Ф12.7	ОФ30	
HMV-V224TF/HNRI-B	60Hz										X	X								
HMV-V280TF/HRI-B	50Hz	28.0	95.5	20.0	68.2	1.20	2800	1640	45~52	220	1510 x 490	1465 x 448 x 811	,		102	106	Ф22.2			
HMV-V280TF/HNR1-B	60Hz										x 870									
HMV-V450TF/HZRI	50Hz	45.0	153.5	3.5 31.4	107.1	1.60	4000	3520	58	300	2200 x 710	2165		222	260					
HMV-V450TF/HXRI	60Hz										X 1018						A 222	A 15.00		
HMV-V560TF/HZRI	50Hz	56.0	191.0	0 39.0	133.0	2.50	6000	4700	62	300	2200 x 710	2165 x 676			222	260	Ψ28.5	Ψ15.88	3 OD \$ 32	
HMV-V560TF/HXRI	60Hz										X 1018	X 916								

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

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

^{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 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.



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

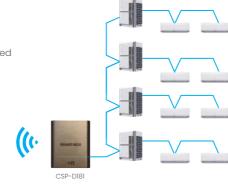
• Available on iOS and Android



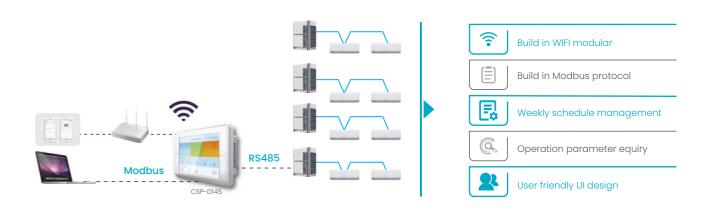
• Remote control via cloud server



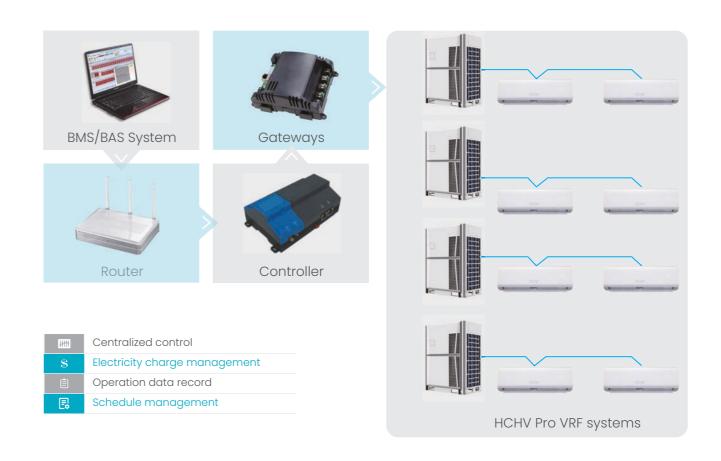
- Single unit controller or group control
- Weekly schedule management
- 100 indoor units can be controlled
- Operation parameter enquiry



Touch Screen Centralized Controller



HCHV-NET(Centralized Control System)



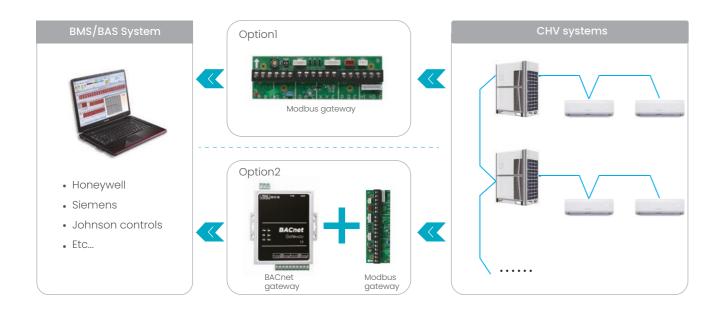
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BMS Gateway

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

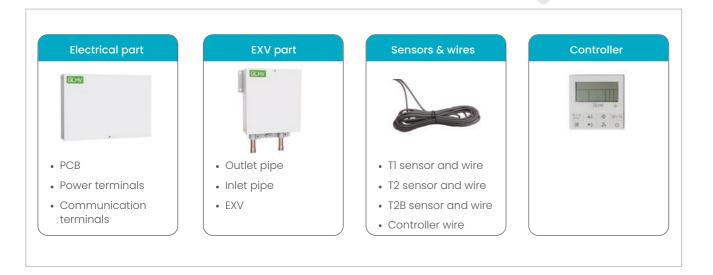
BACnet gateway | Connect with Modbus gateway, use BACnet IP protocol.

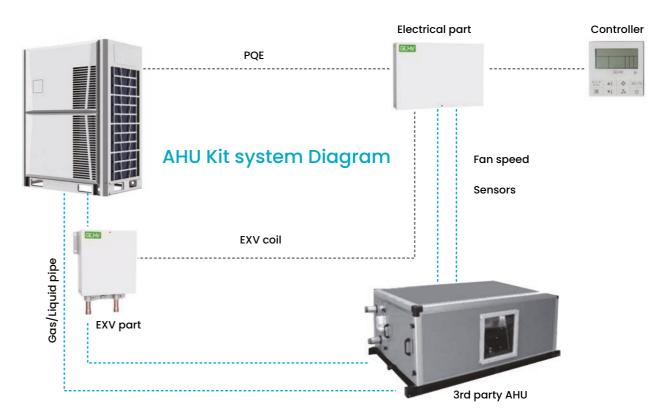


AHU Connection Kit

- HCHV 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.

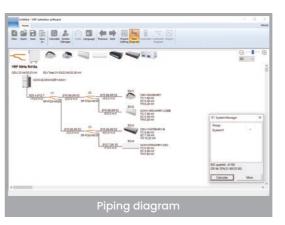
HCHV AHU Kit

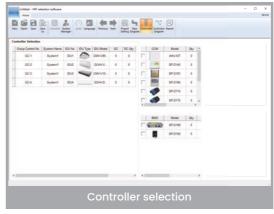


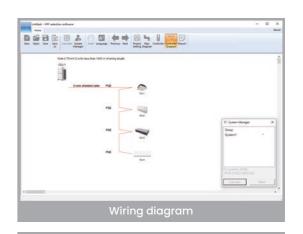


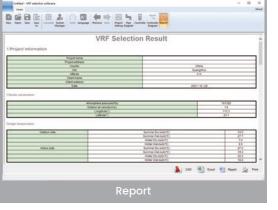
VRF Selection Software

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.









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