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PRODUCT CATALOGUE





















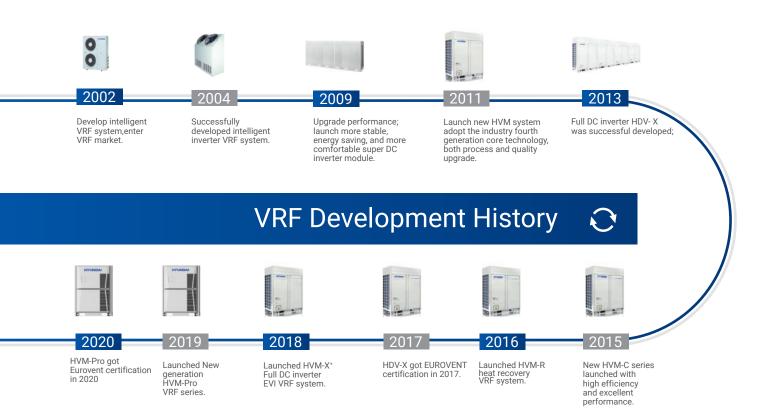


THUNDAY been prover them 200 technical tengineers And carry out technology gollaboration and joint research with postdoctor jese archavork stations ratible salmestime/introducing/senior technical experts from the anto-joint Williams served as senion rechnical goos the nts/HYM pay great attention in R&D and invest 4.5% of annual is come every year to develop new tecti-tology, by sor times a time a time of the times at a blished a applications and our destination and strength temperaturagence structure.electroniarcontrollindustrialdesign and other Delessioners recristation and strength in performance, structure, electronic control, industrial design and other The test centep covers an area of more than 6,000 square meters. It has a series of industry-leading professional taboratories in 2010 strassed the consister one beginn the National Energy Efficiency Label Management Center and obtained per this eater, it 2018, the test coenter obtained QNAS of the Natitifial Energy Efficiency Label Management Center and obtained certificate in 2018, the test center

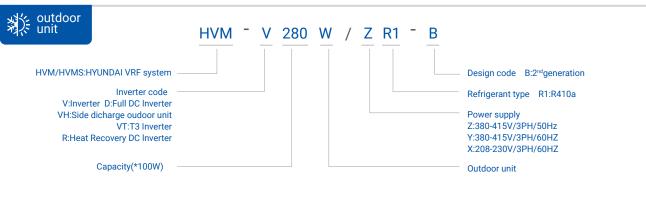
obtained CNAS national certification.

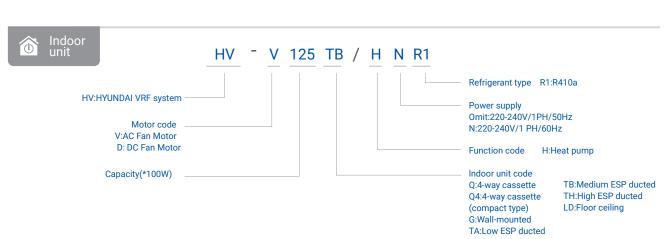
Directory

- 011 Hoverview ead The Model
- 002 Air Soure Heat Pump Unit
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- Air-coole d(Heat Pump)
 Specifications
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How To Read The Model Name







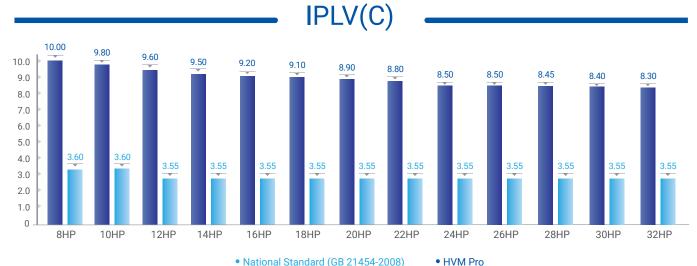
380~415V/3N/50Hz&60Hz New Generation Full DC Inverter EVI VRF



13 Basic Modules

Capacity	8HP	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
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





• National Standard (GB 21454-2008)

Combination Table

НР	Cooling Cap.(kW)	8HP	10HP	12HP	14HP	16HP	18HP	20HP	22HP	24HP	26HP	28HP	30HP	32HP
	Cap.(kw)			×	V	Y	V	~	~		×	<u> </u>	~	<u> </u>
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.

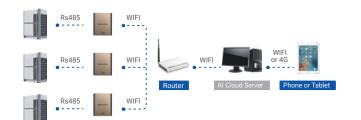
Long Piping & Height Difference

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 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 1 st distributor to indoor unit: 90m
Communication wire length	can be up to 1000m.	

Features

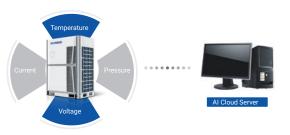
Long Distance Remote Control

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 it stops.



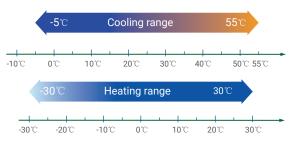
Refrigerant Cooling Design

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



Wide Outdoor Operation Range

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



Power Saving Mode

In the cae of power shortage, HDV PRO can run power saving mode to ease generator's pressure.









Refrigerant Status Detection

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



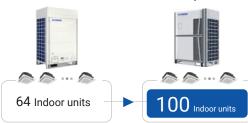
Extremely insufficient Insufficient Slightly insufficient

Normal Slightly excess

Features

More indoor units

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





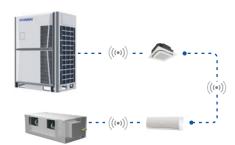


In case of end user doesn't pay as contract, electrical lock function can be used to stop VRF system, and end user can not start the system without permission.

System can be unlock with password by authorized technician.

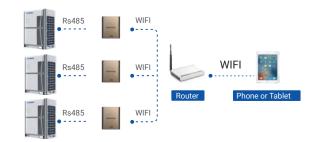
((•)) Wireless Communication(optional)

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



On Site Diagnosis

Technician can do the commissioning & diagnosis by phone or





Service Window On Front Cover

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



Auto Charging Refrigerant(optional)

HDV 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.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.







Advantages



Provide You With Fresh Air

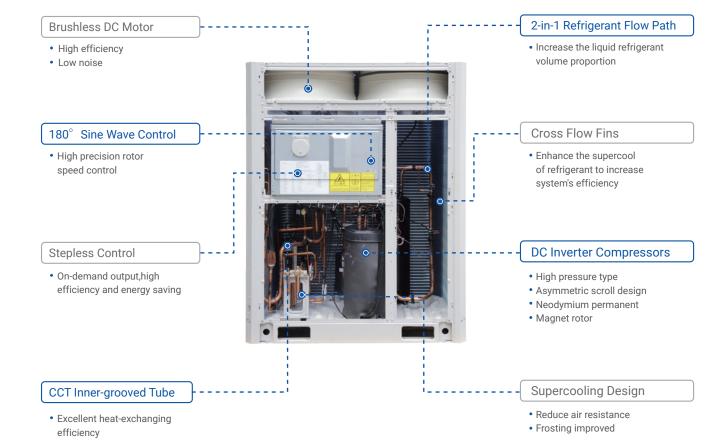


High Efficiency

Low carbon life advocate

HDV always focus on low-carbon energysaving products development, and spare no effort for technological research and development, to become a practitioner and advocate of low-carbon

Core Technologies Make High Efficiency

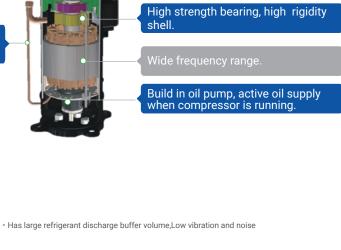


High Efficiency DC Inverter Compressor

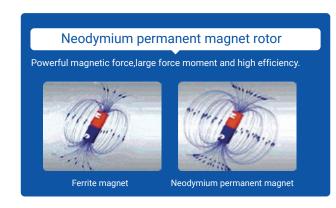
Oil balance design,

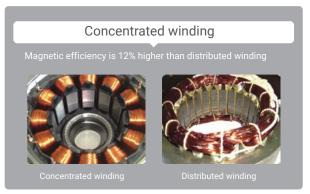
pump extra oil to other compressor

- 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



Vapor injection pipe, better performance in low temperature.





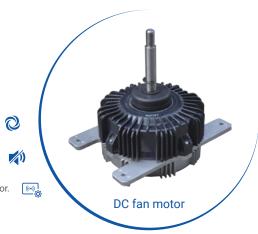


High Efficiency DC Motor

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

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

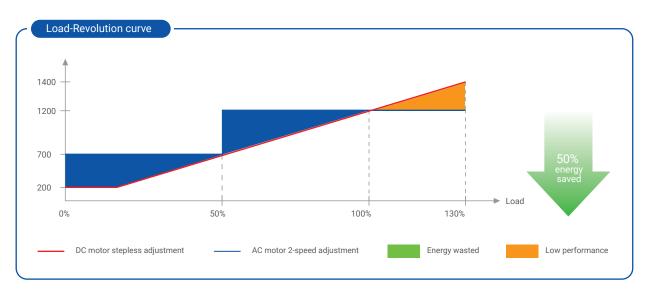
Brushless with built-in sensor.





Stepless Control

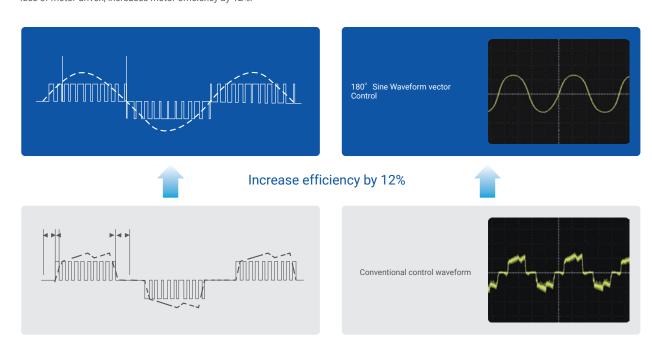
DC fan motor can be stepless contolled by outdoor PCB according to system's operating pressure. And it is able to reduce the energy consumption and maintain the system in the best performance.



180°

180° Sine Waveform Control

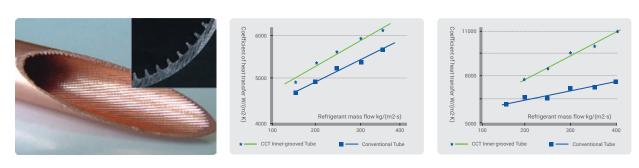
The perfect combination of 180° Sine waveform rotor frequency drive control technology and excellent IPM inverters, reduces the reactive loss of motor-driven, increases motor efficiency by 12%.





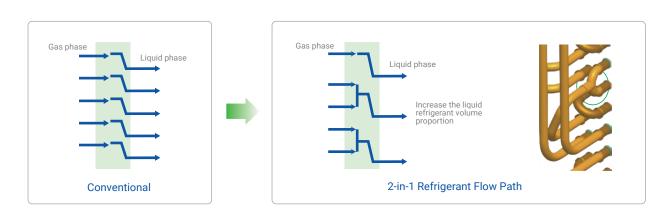
CCT Inner-grooved Tube

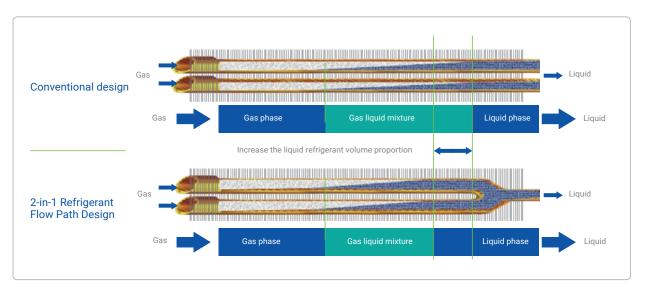
CCT (Continuous Cooling Transformation)inner-grooved copper tube has high thermometic conductivity. This inner-grooved fins break the refrigerant flow boundary layer to enhance refrigerant disturbance to increase heat-exchanging efficiency.



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2-in-1 Refrigerant Flow Path Design

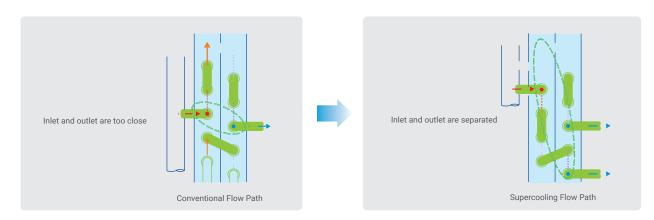






Supercooling Flow Path Design

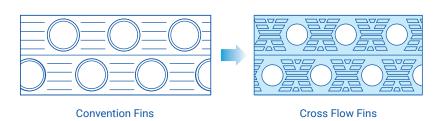
Supercooling flow path design, separates the refrigerant inlet and outlet, increase the supercooling degree, reduce the effect of high temperature inlet gas refrigerant to low temperature outlet liquid refrigerant, therefore, the system efficiency will be greatly increased.

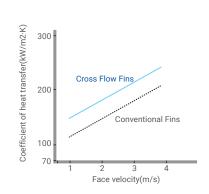




Cross Flow Fins

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



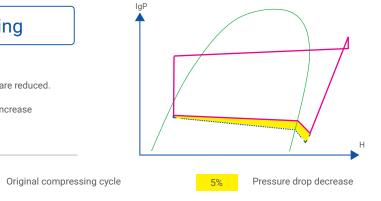


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Low Resistance Internal piping

- 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



Benefits For Users

Livable environment creator

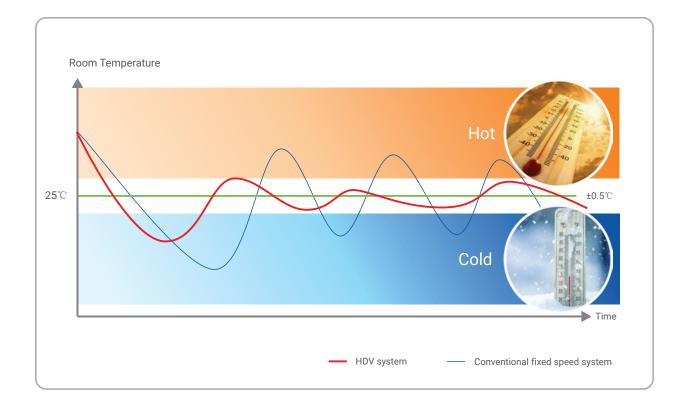
HDV focuses on starting point of CAC system: create a friendly,comfortable and pleasant living environment as always. DC inverter VRF system's comfort technologies include quick cooling and heating, precise temperature control, low noise, use environmental friendly refrigerant and so on, we strive to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



=

Outstanding Comfort Ability

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





Wide Operation Range

- Due to EVI technology, HDV PRO's heating performance increased by 35% compare to conventional VRF system.
- Due to EVI technology, HDV PRO still has 85% of rated capacity even in -15℃.



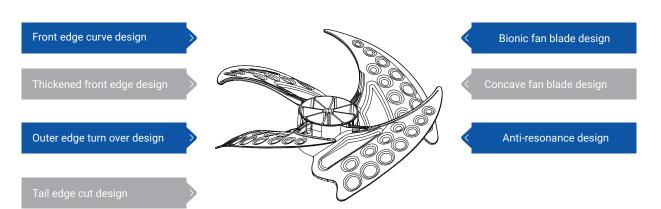
7 Improvements To Reduce Noise

• Maximum 10dB(A) of operating sound decrease.





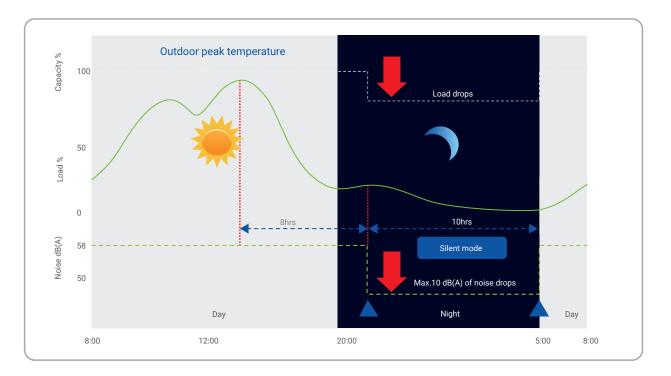
Low Noise Fan Blade





Silent Mode, Night Time Noise Control

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





Snow-proof Function

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





The PHE Economizer

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





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



Fan motor back up function.

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

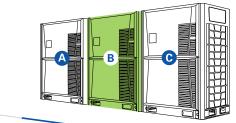


All Outdoor Units Cycle Operation



Time x: Start order:A→B→C

Time x+2: Start order:C→A→B



Time x+1:

Start order:B→C→A

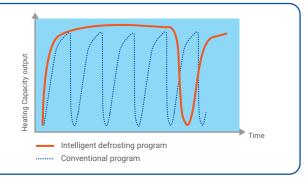
- In one combination system, any outdoor unit can run as master unit.
- Balance the lifespan among outdoor units in one system.

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.

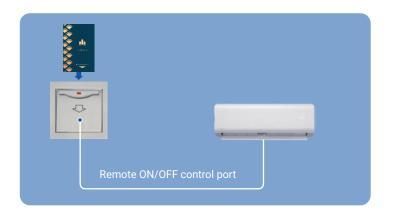
Defrost Curve

- 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 morecomfortable



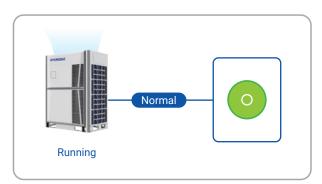
Remote ON/OFF Control Function

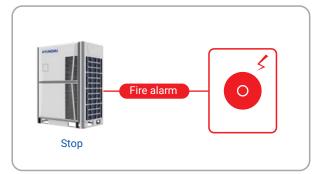
- Indoor units standard build in with ON/OFF control port.
- It can be used for hotel card control and also can be used for long distance remote ON/OFF control. And no need additional hotel VRF indoor unit control module.
- When contactor is open(card pulled out),indoor unit will be off can not be controlled,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



Emergency Stop Operation Function

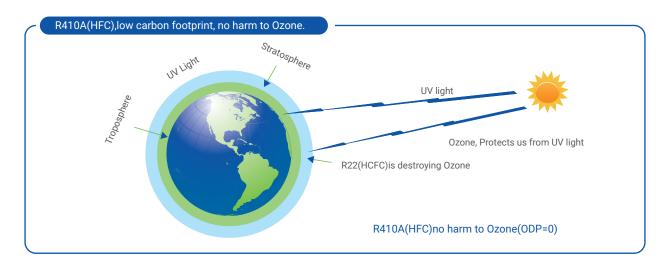
Outdoor unit have a fire alarm linkage signal control function. When emergency situation can stop the whole AC system.





Environment Friendly

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





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 85Pa.

Touch Screen Wired Controller



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

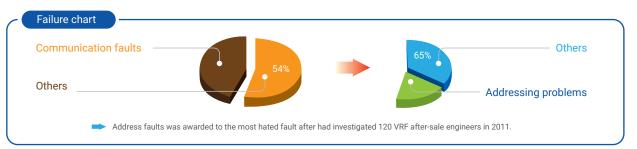
Addressing Methods



- 2 addressing methods
- Automatically addressing: system will distribute address to indoor unit automatically.
- Manually setting by wireless remote controlle
- 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.

LED:

LED Display On The PCB

 LED 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.



17 $\hspace{.1cm}$ 18 $\hspace{.1cm}$



Mode Restriction

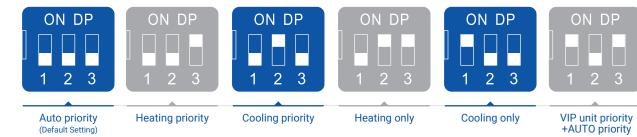
- 6 kinds of mode restriction
- Auto priority(Default Setting)
- g) Cooling(or heating)priority mode.
- Cooling only(or heating only)mode.
- VIP unit priority+AUTO priority mode

3rd stage

Oil separator

Oil return from the system oil separator

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



5-Stage Oil Control

1 st stage Compressor internal oil separation

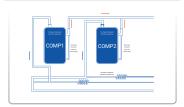
Compressor internal oil separation

Oil separator



4th stage
Oil balance between compressors

Oil balance pipe



2nd stage
Oil return from the oil even pipe

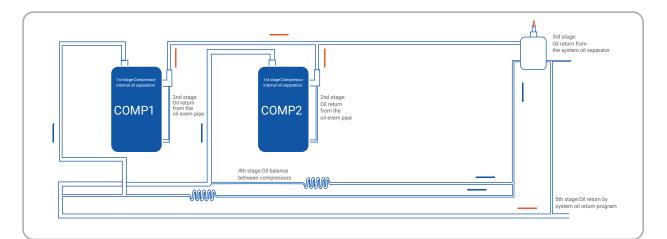
Oil lovel control



5th stage
Oil return bysystem oil return program

Intellingent oil return program





Humanized Internal Structure

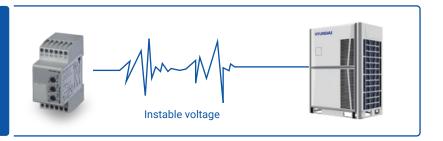


- All key components are designed to close to outside, it is convenient for repair and replacement.
- Thanks to the new balance technology, gas balance pipe does no longer exist, brazing points and leaking risk are decreased.

(7)

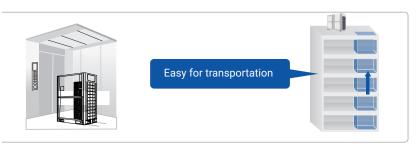
3-Phase Power Protector(Optional)

Protect the outdoor unit from instable voltage.



Easy Installation

- Easy for the outdoor unit to transport to roof floor by elevatordue to its compact size.
- Communication wire length can be up to 1000m.



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Use 2-Core Shielded Wire As Signal Wire

• Save installation cost.

Reduce manual works.







	HP		8	10	12	
(Combination Ur	nit	HVHS08G1Y5	HVHS10G1Y5	HVHS12G1Y5	
Power	supply	V / Ø / Hz	380~415V/3/50	380~415V/3/50	380~415V/3/50	
		kW	25.2	28	33.5	
	Colling	Btu/h	86000	95500	114000	
Capacity		RT	7.2	8	9.5	
Capacity		kW	27.4	31.5	37.5	
	Heating	Btu/h	93500	107500	128000	
		RT	7.8	9	10.7	
	Colling	Α	9.04	11.30	14.51	
Power input	Colling	kW 5.31		6.22	8.35	
Power input	Heating	Α	8.93	11.25	14.34	
	Heating	kW	4.98	5.86	7.35	
		W/W	4.75	4.5	4.01	
Efficiency	Cooling	(kBtu/h)/k W	16.21	15.35	13.65	
EER / COP		W/W	5.5	5.38	5.1	
	Heating	(kBtu/h)/k W	18.77	18.36	17.41	
Compressor	Quantity	-	1	1	1	
Compressor	Туре	-	Scroll - Inverter	Scroll - Inverter	Scroll - Inverter	
Refrigerant	Туре	-	R410a	R410a	R410a	
Kenigerani	Volume	kg	9	9	11	
	Туре	-	DC Inverter	DC Inverter	DC Inverter	
	Quantity	-	1	1	1	
Outdoor	Air flow	m³/h	11000	11000	12000	
Motor Fan	All llow	m³/min	183.3	183.3	200	
	Max Static	Pressure (Pa)	80	80	80	
	Discharge	e Direction	TOP	TOP	TOP	
Dimension	Net (L*H*W)	mm	990*1740*840	990*1740*840	990*1740*840	
weight	Net	kg	228	228	230	
Noise Level		dB(A)	58	58	60	
Dine e!	Liquid pipe	mm	Ø12.7	Ø12.7	Ø12.7	
Pipe size	Gas pipe	mm	Ø22.2	Ø22.2	Ø22.2	
_	Danceronis	2	6*5(L≤20m)	6*5(L≤20m)	6*5(L≤20m)	
Connection	Power wire	mm ²	10*5(20m <l≤50m)< td=""><td>10*5(20m<l≤50m)< td=""><td>10*5(20m<l≤50m)< td=""></l≤50m)<></td></l≤50m)<></td></l≤50m)<>	10*5(20m <l≤50m)< td=""><td>10*5(20m<l≤50m)< td=""></l≤50m)<></td></l≤50m)<>	10*5(20m <l≤50m)< td=""></l≤50m)<>	
wire	Signal	mm ² x cores	0.75 mm x 2c	0.75 mm x 2c	0.75 mm x 2c	
Indoor	Max. (Co	onditional)	13	16	19	
Linita	•	•				





	HP		14	16	18	20	22
C	ombination Ur	nit	HVHS14G1Y5	HVHS16G1Y5	HVHS18G1Y5	HVHS20G1Y5	HVHS22G1Y5
Power	supply	V / Ø / Hz	380~415V/3/50	380~415V/3/50	380~415V/3/50	380~415V/3/50	380~415V/3/50
		kW	40	45	50	56	61.5
	Colling	Btu/h	136500	153500	170600	191000	209800
Capacity		RT	11.4	12.8	14.2	16	17.5
oupdoity		kW	45	50	56	63	69
	Heating	Btu/h	153500	170600	191000	214900	235400
		RT	12.8	14.2	16	18	19.7
	Colling	Α	18.10	21.60	23.29	26.10	29.06
Power input	Coming	kW	9.76	11.63	12.22	14.66	16.62
rowei iliput	Hooting	Α	18.00	20.25	22.61	25.70	28.40
Heating		kW	9.34	10.87	11.89	14.16	16.80
		W/W	4.1	3.87	4.09	3.82	3.70
Efficiency	Cooling	(kBtu/h)/k W	13.99	13.20	13.96	13.03	12.62
EER / COP		W/W	4.82	4.6	4.71	4.45	4.11
	Heating	(kBtu/h)/k W	16.44	15.70	16.06	15.18	14.01
Compressor	Quantity	-	1	1	1	1	1
Complessor	Type	-	Scroll - Inverter	Scroll - Inverter	Scroll - Inverter	Scroll - Inverter	Scroll - Inverter
Refrigerant	Type	-	R410a	R410a	R410a	R410a	R410a
Kenigerant	Volume	kg	14	14	15	16	16
	Туре	-	DC Inverter	DC Inverter	DC Inverter	DC Inverter	DC Inverter
	Quantity	-	1	1	2	2	2
Outdoor	Air flow	m³/h	14000	14000	16000	16000	16000
Motor Fan	All How	m³/min	233.3	233.3	266.7	266.7	266.7
	Max Static I	Pressure (Pa)	80	80	80	80	80
	Discharge	e Direction	TOP	TOP	TOP	TOP	TOP
Dimension	Net (L*H*W)	mm	1340*1740*840	1340*1740*840	1340*1740*840	1340*1740*840	1340*1740*840
weight	Net	kg	275	275	285	290	297
Noise Level		dB(A)	60	61	62	63	63
	Liquid pipe	mm	Ø15.88	Ø15.88	Ø15.88	Ø15.88	Ø15.88
Pipe size	Gas pipe	mm	Ø28.6	Ø28.6	Ø28.6	Ø28.6	Ø28.6
	Danis	2	10*5(L≤20m)	10*5(L≤20m)	16*5(L≤20m)	16*5(L≤20m)	16*5(L≤20m)
Connection	Power wire	mm ²	16*5(20m <l≤50m)< th=""><th>16*5(20m<l≤50m)< th=""><th>25*5(20m<l≤50m)< th=""><th>25*5(20m<l≤50m)< th=""><th>25*5(20m<l≤50m)< th=""></l≤50m)<></th></l≤50m)<></th></l≤50m)<></th></l≤50m)<></th></l≤50m)<>	16*5(20m <l≤50m)< th=""><th>25*5(20m<l≤50m)< th=""><th>25*5(20m<l≤50m)< th=""><th>25*5(20m<l≤50m)< th=""></l≤50m)<></th></l≤50m)<></th></l≤50m)<></th></l≤50m)<>	25*5(20m <l≤50m)< th=""><th>25*5(20m<l≤50m)< th=""><th>25*5(20m<l≤50m)< th=""></l≤50m)<></th></l≤50m)<></th></l≤50m)<>	25*5(20m <l≤50m)< th=""><th>25*5(20m<l≤50m)< th=""></l≤50m)<></th></l≤50m)<>	25*5(20m <l≤50m)< th=""></l≤50m)<>
wire	Signal	mm ² x cores	0.75 mm x 2c	0.75 mm x 2c	0.75 mm x 2c	0.75 mm x 2c	0.75 mm x 2c
ınaoor	_	onditional)	23	26	29	33	36
Unita	. (5.	,		-			

^{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.





	HP		24	26	28	30	32
C	Combination Ur	nit	HVHS24G1Y5	HVHS26G1Y5	HVHS28G1Y5	HVHS30G1Y5	HVHS32G1Y5
Power	supply	V / Ø / Hz	380~415V/3/50	380~415V/3/50	380~415V/3/50	380~415V/3/50	380~415V/3/50
		kW	67	73	78.5	85	90
	Colling	Btu/h	228600	249100	267800	290000	307100
Capacity		RT	19.1	20.8	22.3	24.2	25.6
Сараспу		kW	75	81.5	87.5	95	100
	Heating	Btu/h	255900	278100	298600	324100	341200
		RT	21.3	23.2	24.88	27.0	28.4
	Colling	Α	29.09	32.59	36.13	40.36	44.73
Dower innut	Colling	kW	16.71	18.16	20.03	22.37	24.79
Power input	Heating	Α	28.65	30.28	33.38	38.52	43.90
	Heating		14.72	16.78	18.50	21.35	24.33
		W/W	4.01	4.02	3.92	3.80	3.63
Efficiency	Cooling	(kBtu/h)/k W	13.68	13.72	13.37	12.96	12.39
EER / COP		W/W	5.10	4.86	4.73	4.45	4.11
	Heating	(kBtu/h)/k W	17.38	16.57	16.14	15.18	14.02
Compressor	Quantity	-	2	2	2	2	2
Compressor	Туре	-	Scroll - Inverter	Scroll - Inverter	Scroll - Inverter	Scroll - Inverter	Scroll - Inverter
Refrigerant	Туре	-	R410a	R410a	R410a	R410a	R410a
Kemgerant	Volume	kg	16	20	20	23	23
	Туре	-	DC Inverter	DC Inverter	DC Inverter	DC Inverter	DC Inverter
	Quantity	-	2	2	2	2	2
Outdoor	Air flow	m³/h	25000	25000	25000	24000	24000
Motor Fan	All HOW	m³/min	416.7	416.7	416.7	400	400
	Max Static I	Pressure (Pa)	80	80	80	80	80
	Discharge	e Direction	TOP	TOP	TOP	TOP	TOP
Dimension	Net (L*H*W)	mm	1990*1740*840	1990*1740*840	1990*1740*840	1990*1740*840	1990*1740*840
weight	Net	kg	388	433	433	480	480
Noise Level		dB(A)	62	63	63	64	64
Discosias	Liquid pipe	mm	Ø15.88	Ø22.2	Ø22.2	Ø22.2	Ø22.2
Pipe size	Gas pipe	mm	Ø28.6	Ø35	Ø35	Ø35	Ø35
	Dawas wis-	2	16*5(L≤20m)	16*5(L≤20m)	16*5(L≤20m)	25*5(L≤20m)	25*5(L≤20m)
Connection	Power wire	mm ²	25*5(20m <l≤50m)< td=""><td>25*5(20m<l≤50m)< td=""><td>25*5(20m<l≤50m)< td=""><td>35*5(20m<l≤50m)< td=""><td>35*5(20m<l≤50m)< td=""></l≤50m)<></td></l≤50m)<></td></l≤50m)<></td></l≤50m)<></td></l≤50m)<>	25*5(20m <l≤50m)< td=""><td>25*5(20m<l≤50m)< td=""><td>35*5(20m<l≤50m)< td=""><td>35*5(20m<l≤50m)< td=""></l≤50m)<></td></l≤50m)<></td></l≤50m)<></td></l≤50m)<>	25*5(20m <l≤50m)< td=""><td>35*5(20m<l≤50m)< td=""><td>35*5(20m<l≤50m)< td=""></l≤50m)<></td></l≤50m)<></td></l≤50m)<>	35*5(20m <l≤50m)< td=""><td>35*5(20m<l≤50m)< td=""></l≤50m)<></td></l≤50m)<>	35*5(20m <l≤50m)< td=""></l≤50m)<>
wire	Signal	mm ² x cores	0.75 mm x 2c	0.75 mm x 2c	0.75 mm x 2c	0.75 mm x 2c	0.75 mm x 2c
ınaoor	Max. (Co	onditional)	39	43	46	50	50





	HP		34	36	38	40
C	ombination Uni		HVHS16G1Y5	HVHS18G1Y5	HVHS16G1Y5	HVHS18G1Y5
C	ombination om	L	HVHS18G1Y5	HVHS18G1Y5	HVHS22G1Y5	HVHS22G1Y5
Power	supply	V/Ø/Hz	380~415V/3/50	380~415V/3/50	380~415V/3/50	380~415V/3/50
		kW	95	100	106.5	111.5
	Colling	Btu/h	324100	341200	363300	380400
apacity		RT	27	28.4	30.3	31.7
apacity		kW	106	112	119	125
	Heating	Btu/h	361600	382000	406000	426400
		RT	30.2	32	33.9	35.7
	Colling	Α	44.89	46.58	50.66	52.35
lower input	9	kW	23.85	24.45	28.25	28.85
Power input	Heating	Α	42.86	45.22	48.65	51.01
	пеанну	kW	22.76	23.78	27.67	28.69
	Cooling	W/W	3.98	4.09	3.77	3.87
fficiency		(kBtu/h)/kW	13.59	13.96	12.86	13.19
EER / COP	Llooting	W/W	4.66	4.71	4.30	4.36
	Heating	(kBtu/h)/kW	15.89	16.06	14.67	14.86
ompressor	Quantity	-	1+1	1+1	1+1	1+1
ompressor	Type	-	Scroll - Inverter	Scroll - Inverter	Scroll - Inverter	Scroll - Inverter
lefrigerant	Type	-	R410a	R410a	R410a	R410a
enigerani	Volume	kg	14+15	15+15	14+16	15+16
	Туре	-	DC Inverter	DC Inverter	DC Inverter	DC Inverter
	Quantity	-	1+2	2+2	1+2	2+2
utdoor Iotor Fan	Air flow	m³/h	30000	32000	30000	32000
iotor i aii	Max Static Pr	essure (Pa)	80	80	80	80
	Discharge Dir	rection	TOP	TOP	TOP	TOP
imension	Net (L*H*W)	mm	(990*1740*840)*2	(990*1740*840)*2	(990*1740*840)*2	(990*1740*840)*2
veight	Net	kg	275+285	285+285	275+297	285+297
loise Level		dB(A)	62	62	63	63
Connecting	Signal	mm ² x cores	0.75mm x 2c	0.75mm x 2c	0.75mm x 2c	0.75mm x 2c
ndoor Units	Max. (Co	nditional)	56	59	63	68

^{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.





	HP		42	44	46	48
Ca	mbination Uni		HVHS20G1Y5	HVHS22G1Y5	HVHS24G1Y5	HVHS24G1Y5
CC	onibiliation one		HVHS22G1Y5	HVHS22G1Y5	HVHS22G1Y5	HVHS24G1Y5
Power s	supply	V/Ø/Hz	380~415V/3/50	380~415V/3/50	380~415V/3/50	380~415V/3/50
		kW	117.5	123	128.5	134
	Colling	Btu/h	400800	419600	438400	457200
Capacity		RT	33.5	35	36.6	38.2
oupucity		kW	132	138	144	150
	Heating	Btu/h	450300	470800	491300	511800
		RT	37.7	39.4	41	42.6
	Colling	Α	55.16	58.12	58.15	58.18
Power input	Colling	kW	31.28	33.24	33.33	33.42
Power input	Heating	Α	54.1	56.8	57.05	57.30
	Heating	kW	30.96	33.60	31.52	29.44
	Cooling	W/W	3.76	3.70	3.86	4.01
Efficiency	Cooling	(kBtu/h)/kW	12.81	12.62	13.15	13.68
EER / COP	Heating	W/W	4.26	4.11	4.57	5.10
	пеанну	(kBtu/h)/kW	14.55	14.01	15.59	17.38
Compressor	Quantity	-	1+1	1+1	2+1	2+2
Dompressor	Type	-	Scroll - Inverter	Scroll - Inverter	Scroll - Inverter	Scroll - Inverter
Refrigerant	Type	-	R410a	R410a	R410a	R410a
Kenigerani	Volume	kg	16+16	16+16	16+16	16+16
	Туре	-	DC Inverter	DC Inverter	DC Inverter	DC Inverter
	Quantity	-	2+2	2+2	2+2	2+2
Outdoor Motor Fan	Air flow	m³/h	32000	32000	41000	50000
violoi Faii	Max Static Pr	essure (Pa)	80	80	80	80
	Discharge Dir	ection	TOP	TOP	TOP	TOP
Dimension	Net (L*H*W)	mm	(990*1740*840)*2	(990*1740*840)*2	1990*1740*840 1340*1740*840	(1990*1740*840)*2
weight	Net	kg	290+297	297+297	388+297	388+388
Noise Level		dB(A)	63	63	63	63
Connecting	Signal	mm ² x cores	0.75mm x 2c	0.75mm x 2c	0.75mm x 2c	0.75mm x 2c
Indoor Units	Max. (Co	nditional)	71	74	78	81





	HP		50	52	54	56
C	ombination Uni		HVHS22G1Y5	HVHS24G1Y5	HVHS24G1Y5	HVHS24G1Y5
			HVHS28G1Y5	HVHS28G1Y5	HVHS30G1Y5	HVHS32G1Y5
Power	supply	V/Ø/Hz	380~415V/3/50	380~415V/3/50	380~415V/3/50	380~415V/3/50
		kW	140	145.5	152	157
	Colling	Btu/h	477600	496400	518600	535700
Capacity		RT	39.8	41.4	43.3	44.7
опристу		kW	156.5	162.5	170	175
	Heating	Btu/h	534000	554500	580000	597100
		RT	44.58	46.18	48.3	49.7
	Colling	Α	65.19	65.22	69.45	73.82
Power input	Colling	kW	36.65	36.73	39.08	41.50
r ower input	Heating	Α	61.78	62.03	67.17	72.55
	пеанну	kW	35.30	33.22	36.07	39.05
	Cooling	W/W	3.82	3.96	3.89	3.78
Efficiency	Cooling	(kBtu/h)/kW	13.03	13.51	13.27	12.91
EER / COP	Heating	W/W	4.43	4.89	4.71	4.48
	пеанну	(kBtu/h)/kW	15.13	16.69	16.08	15.29
Compressor	Quantity	-	1+2	2+2	2+2	2+2
Compressor	Туре	-	Scroll - Inverter	Scroll - Inverter	Scroll - Inverter	Scroll - Inverter
Refrigerant	Туре	-	R410a	R410a	R410a	R410a
Remgerant	Volume	kg	16+20	16+20	16+23	16+23
	Туре	-	DC Inverter	DC Inverter	DC Inverter	DC Inverter
	Quantity	-	2+2	2+2	2+2	2+2
Outdoor Motor Fan	Air flow	m³/h	41000	50000	49000	49000
Wiotor Fair	Max Static Pr	essure (Pa)	80	80	80	80
	Discharge Dir	ection	TOP	TOP	TOP	TOP
Dimension	Net (L*H*W)	mm	1340*1740*840 1990*1740*840	(1990*1740*840)*2	(1990*1740*840)*2	(1990*1740*840)*2
weight	Net	kg	297+433	388+433	388+480	388+480
Noise Level		dB(A)	64	64	64	64
Connecting	Signal	mm ² x cores	0.75mm x 2c	0.75mm x 2c	0.75mm x 2c	0.75mm x 2c
Indoor Units	Max. (Co	nditional)	84	87	91	94

^{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.





	HP		58	60	62	64
C	ombination Uni		HVHS26G1Y5	HVHS28G1Y5	HVHS30G1Y5	HVHS32G1Y5
·	ombination om		HVHS32G1Y5	HVHS32G1Y5	HVHS32G1Y5	HVHS32G1Y5
Power	supply	V / Ø / Hz	380~415V/3/50	380~415V/3/50	380~415V/3/50	380~415V/3/50
		kW	163	168.5	175	180
	Colling	Btu/h	556200	574900	597100	614200
Capacity		RT	46.4	47.9	49.8	51.2
Сарасну		kW	181.5	187.5	195	200
	Heating	Btu/h	619300	639800	665300	682400
		RT	51.6	53.28	55.4	56.8
	Colling	Α	77.32	80.86	85.09	89.46
Power input	Colling	kW	42.95	44.82	47.16	49.59
Power Input	l la atima	Α	74.18	77.28	82.42	87.80
	Heating	kW	41.11	42.83	45.68	48.66
	Cooling	W/W	3.79	3.76	3.71	3.63
Efficiency	Cooling	(kBtu/h)/kW	12.95	12.83	12.66	12.39
EER / COP	I I a a tim a	W/W	4.41	4.38	4.27	4.11
	Heating	(kBtu/h)/kW	15.06	14.94	14.56	14.02
Compressor	Quantity	-	2+2	2+2	2+2	2+2
Compressor	Туре	-	Scroll - Inverter	Scroll - Inverter	Scroll - Inverter	Scroll - Inverter
Refrigerant	Туре	-	R410a	R410a	R410a	R410a
Reingerant	Volume	kg	23+23	23+23	23+23	23+23
	Туре	-	DC Inverter	DC Inverter	DC Inverter	DC Inverter
	Quantity	-	2+2	2+2	2+2	2+2
Outdoor Motor Fan	Air flow	m³/h	49000	49000	48000	48000
WOOLOI I all	Max Static Pr	essure (Pa)	80	80	80	80
	Discharge Dir	ection	TOP	TOP	TOP	TOP
Dimension	Net (L*H*W)	mm	(1990*1740*840)*2	(1990*1740*840)*2	(1990*1740*840)*2	(1990*1740*840)*2
weight	Net	kg	433+480	433+480	480+480	480+480
Noise Level		dB(A)	64	64	64	64
Connecting	Signal	mm ² x cores	0.75mm x 2c	0.75mm x 2c	0.75mm x 2c	0.75mm x 2c
Indoor Units	Max. (Co	nditional)	97	100	100	100





	HP		66	68	70	72
			HVHS22G1Y5	HVHS22G1Y5	HVHS22G1Y5	HVHS22G1Y5
C	ombination Uni	it	HVHS22G1Y5	HVHS22G1Y5	HVHS24G1Y5	HVHS22G1Y5
_			HVHS22G1Y5	HVHS24G1Y5	HVHS24G1Y5	HVHS28G1Y5
Power	supply	V / Ø / Hz	380~415V/3/50	380~415V/3/50	380~415V/3/50	380~415V/3/50
	0 11:	kW	184.5	190	195.5	201.5
	Colling	Btu/h	629400	648200	667000	687400
Capacity		RT	52.5	54.1	55.7	57.3
		kW	207	213	219	225.5
	Heating	Btu/h	706200	726700	747200	769400
		RT	59.1	60.7	62.3	64.28
	Colling	Α	87.18	87.21	87.24	94.25
Power input	Coming	kW	49.86	49.95	50.04	53.27
. over input	Heating	Α	85.2	85.45	85.7	90.18
	ricating	kW	50.40	48.32	46.24	52.10
	Cooling	W/W	3.70	3.80	3.91	3.78
Efficiency	Cooling	(kBtu/h)/kW	12.62	12.98	13.33	12.90
EER / COP	Heating	W/W	4.11	4.41	4.74	4.33
	rieating	(kBtu/h)/kW	14.01	15.04	16.16	14.77
Compressor	Quantity	-	1+1+1	1+1+2	1+2+2	1+1+1
Compressor	Type	-	Scroll - Inverter	Scroll - Inverter	Scroll - Inverter	Scroll - Inverter
Refrigerant	Туре	-	R410a	R410a	R410a	R410a
Reingerant	Volume	kg	14+15	15+15	14+16	15+16
	Туре	-	DC Inverter	DC Inverter	DC Inverter	DC Inverter
	Quantity	-	2+2+2	2+2+2	2+2+2	2+2+2
Outdoor	Air flow	m³/h	48000	57000	66000	75000
Motor Fan	Max Static I	Pressure (Pa)	80	80	80	80
	Discharge	e Direction	TOP	TOP	TOP	TOP
			(990*1740*840)*3	(990*1740*840)*3	(990*1740*840)*3	(990*1740*840)*3
Dimension	Net (L*H*W)	mm			(1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
weight	Net	kg	891	982	1073	1027
Noise Level		dB(A)	70	70	70	70
Connecting	Signal mm ² x cores		0.75mm x 2c	0.75mm x 2c	0.75mm x 2c	0.75mm x 2c
Indoor Units	Max. (Co	onditional)	100	100	100	100

^{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.





	HP		74	76	78	80
			HVHS18G1Y5	HVHS24G1Y5	HVHS22G1Y5	HVHS24G1Y5
С	ombination Uni	it	HVHS28G1Y5	HVHS24G1Y5	HVHS28G1Y5	HVHS28G1Y5
D	1	V / G / III-	HVHS28G1Y5	HVHS28G1Y5	HVHS28G1Y5	HVHS28G1Y5
Power	suppiy	V / Ø / Hz kW	380~415V/3/50 207	380~415V/3/50	380~415V/3/50	380~415V/3/50 224
	Calling			212.5 725000	218.5 745400	764200
	Colling	Btu/h	706200			
Capacity		RT	58.8	60.5	62.1	63.7
		kW	231	237.5	244	250
	Heating	Btu/h	788200	810400	832600	853100
		RT	65.76	67.48	69.46	71.06
	Colling	Α	95.55	94.31	101.32	101.35
Power input		kW	52.28	53.44	56.67	56.76
	Heating	Α	89.37	90.68	95.16	95.41
	ricating	kW	48.89	47.94	53.80	51.72
	Cooling	W/W	3.96	3.98	3.86	3.95
Efficiency	Cooming	(kBtu/h)/kW	13.51	13.57	13.15	13.46
EER / COP	Heating	W/W	4.72	4.95	4.54	4.83
	rieating	(kBtu/h)/kW	16.12	16.90	15.48	16.49
Compressor	Quantity	-	1+2+2	2+2+2	2+2+2	2+2+2
Compressor	Type	-	Scroll - Inverter	Scroll - Inverter	Scroll - Inverter	Scroll - Inverter
Refrigerant	Туре	-	R410a	R410a	R410a	R410a
Remgerant	Volume	kg	16+16	16+16	16+16	16+16
	Туре	-	DC Inverter	DC Inverter	DC Inverter	DC Inverter
	Quantity	-	2+2+2	2+2+2	2+2+2	2+2+2
Outdoor Motor Fan	Air flow	m³/h	66000	32000	41000	75000
WIOLOI FAII	Max Static	Pressure (Pa)	80	80	80	80
	Discharge	e Direction	TOP	TOP	TOP	TOP
			(990*1740*840)*3	(990*1740*840)*3	(990*1740*840)*3	(1990*1740*840)*2
Dimension	Net (L*H*W)	mm		,	1340*1740*840	,
weight	Net	kg	1151	1209	1163	1254
Noise Level		dB(A)	70	70	70	70
Connecting	Signal mm ² x cores		0.75mm x 2c	0.75mm x 2c	0.75mm x 2c	0.75mm x 2c
Indoor Units	Max. (Conditional)		100	100	100	100





	HP		82	84	86	88		
			HVHS26G1Y5	HVHS28G1Y5	HVHS30G1Y5	HVHS32G1Y5		
Co	ombination Uni	t	HVHS28G1Y5	HVHS28G1Y5	HVHS28G1Y5	HVHS28G1Y5		
Power s	supply	V / Ø / Hz	HVHS28G1Y5 380~415V/3/50	HVHS28G1Y5 380~415V/3/50	HVHS28G1Y5 380~415V/3/50	HVHS28G1Y5 380~415V/3/50		
rowers	suppry	kW	230	235.5	242	247		
	Colling	Btu/h	784700	803400	825600	842700		
	Coming	RT	65.4	66.9	68.8	70.2		
Capacity		kW	256.5	262.5	270	275		
	Heating	Btu/h	875300	895800	921300	938400		
	ricating	RT	72.96	74.64	76.76	78.2		
		A	104.85	108.39	112.62	116.99		
	Colling	kW	58.21	60.08	62.42	64.84		
Power input		A	97.04	100.14	105.28	110.66		
	Heating	kW	53.78	55.50	58.35	61.33		
		W/W	3.95	3.92	3.88	3.81		
Efficiency	Cooling	(kBtu/h)/kW	13.48	13.37	13.23	13.00		
EER / COP		W/W	4.77	4.73	4.63	4.48		
	Heating	(kBtu/h)/kW	16.28	16.14	15.79	15.30		
	Quantity	-	2+2+2	2+2+2	2+2+2	2+2+2		
Compressor	Type	-	Scroll - Inverter	Scroll - Inverter	Scroll - Inverter	Scroll - Inverter		
	Type	-	R410a	R410a	R410a	R410a		
Refrigerant	Volume	kg	16+20	16+20	16+23	16+23		
	Туре	-	DC Inverter	DC Inverter	DC Inverter	DC Inverter		
	Quantity	-	2+2+2	2+2+2	2+2+2	2+2+2		
Outdoor Motor Fan	Air flow	m³/h	75000	75000	74000	74000		
wotor ran	Max Static F	Pressure (Pa)	80	80	80	80		
	Discharge	Direction	TOP	TOP	TOP	TOP		
			1340*1740*840	(1990*1740*840)*3	(1990*1740*840)*3	(1990*1740*840)*3		
Dimension	Net (L*H*W)	mm	1990*1740*840	,	. ,	,		
weight	Net	kg	1299	1299	1346	1346		
Noise Level		dB(A)	70	70	70	70		
Connecting	Signal	mm ² x cores	0.75mm x 2c	0.75mm x 2c	0.75mm x 2c	0.75mm x 2c		
Indoor Units	Max. (Co	nditional)	100	100	100	100		

^{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.



380-415V/3N/50&60Hz HYPER INVERTER HEATING VRF SYSTEM



	HP		90	92	94	96		
			HVHS26G1Y5	HVHS28G1Y5	HVHS30G1Y5	HVHS32G1Y5		
С	ombination Uni	it	HVHS32G1Y5	HVHS32G1Y5	HVHS32G1Y5	HVHS32G1Y5		
			HVHS32G1Y5	HVHS32G1Y5	HVHS32G1Y5	HVHS32G1Y5		
Power	supply	V/Ø/Hz	380~415V/3/50	380~415V/3/50	380~415V/3/50	380~415V/3/50		
		kW	253	258.5	265	270		
	Colling	Btu/h	863300	882000	904200	921300		
Capacity		RT	72	73.5	75.4	76.8		
		kW	281.5	287.5	295	300		
	Heating	Btu/h	960500	981000	1006500	1023600		
		RT	80	81.68	83.8	85.2		
	Colling	Α	122.05	125.59	129.82	134.19		
Power input	Colling	kW	67.75	69.61	71.96	74.38		
rowei iliput	Heating	Α	118.08	121.18	126.32	131.70		
	пеанну	kW	65.44	67.16	70.01	72.99		
	O a a lima	W/W	3.73	3.71	3.68	3.63		
Efficiency	Cooling	(kBtu/h)/kW	12.74	12.67	12.57	12.39		
EER / COP	Heating	W/W	4.30	4.28	4.21	4.11		
	пеанну	(kBtu/h)/kW	14.68	14.61	14.38	14.02		
Compressor	Quantity	-	2+2+2	2+2+2	2+2+2	2+2+2		
Compressor	Туре	-	Scroll - Inverter	Scroll - Inverter	Scroll - Inverter	Scroll - Inverter		
Refrigerant	Туре	-	R410a	R410a	R410a	R410a		
Reingerani	Volume	kg	23+23	23+23	23+23	23+23		
	Туре	-	DC Inverter	DC Inverter	DC Inverter	DC Inverter		
	Quantity	-	2+2+2	2+2+2	2+2+2	2+2+2		
Outdoor Motor Fan	Air flow	m³/h	73000	73000	72000	72000		
MOTOR Fall	Max Static	Pressure (Pa)	80	80	80	80		
	Discharge	e Direction	TOP	TOP	TOP	TOP		
			(1990*1740*840)*3	(1990*1740*840)*3	(1990*1740*840)*3	(1990*1740*840)*3		
Dimension	Net (L*H*W)	mm				,		
weight	Net	kg	1393	1393	1440	1440		
Noise Level		dB(A)	70	70	70	70		
Connecting	Signal	mm ² x cores	0.75mm x 2c	0.75mm x 2c	0.75mm x 2c	0.75mm x 2c		
Indoor Units	Max. (Co	onditional)	100	100	100			



8/10/12HP











14/16HP 18/20HP 22HP 24HP 26/28/30/32HP





• 14HP/16HP





• 22HP















12.5/14/16/18kW

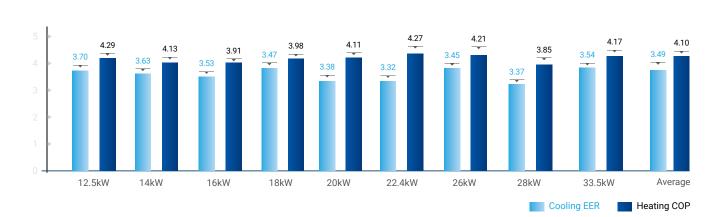
20/22.4kW

26/28/33.5kW

9 Models

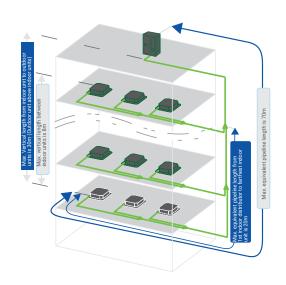
Ca	apacity	12.5kW	14kW	16kW	18kW	20kW	22.4kW	26kW	28kW	33.5kW
Com	pressor	DC	DC	DC	DC	DC	DC	DC	DC	DC
Fai	n motor	DC+DC	DC+DC	DC+DC	DC+DC	DC+DC	DC+DC	DC+DC	DC+DC	DC+DC

EER&COP



Long Piping & Height Difference

The total pipe length	100m(12.5-18kW),120m(22.4-33.5kW)
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

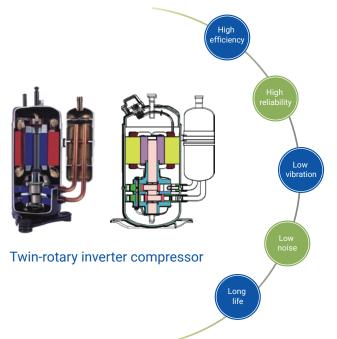


Advantage -





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

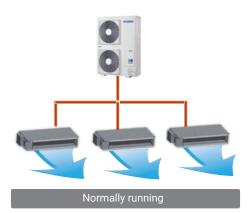


- ◆ High efficiency DC fan motor
- ◆ Low noise and high efficiency because of high-density wire winding engineering
- ◆ Brushless with built-in sensor



Fast Cooling And Heating

Every rooms meet set point most quickly and comfortably by optimized refrigerant control.



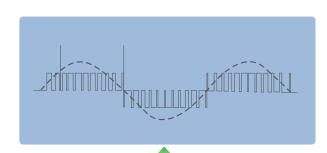


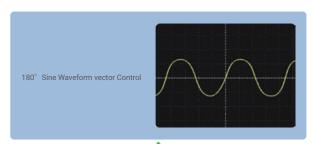
Some indoor units stop at set point

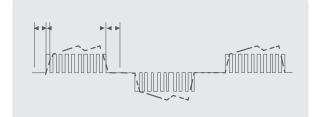


180° Sine Wave Control

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%.



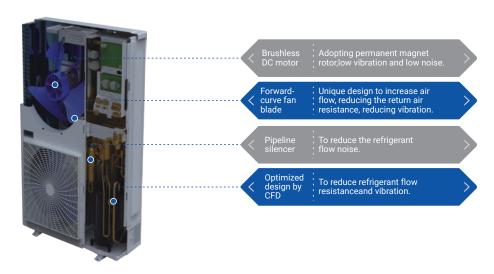






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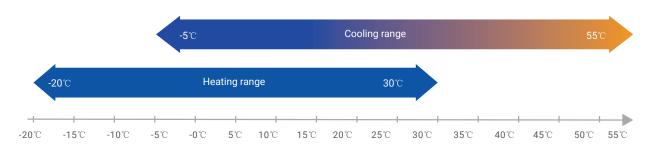
Silent Technology



淡

Wide Outdoor Operation Range

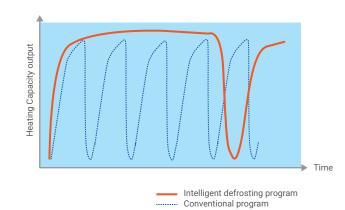
Because global warming is getting worse, Max. cooling operating temperature is designed up to 50° C. Heating operating temperature is down to -20 $^{\circ}$ C. In the cold winter, system can heat the room continuously.



Outdoor unit running at temperature above 50°C need customized in factory, please consult to sales engineer.

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





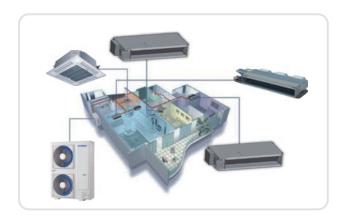
Rotation incorrect Under protection Can not start



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 slow down.

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.







High Efficiency



Refrigerant cooling technology for PCB

1) 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 manual works.





LED Display On PCB



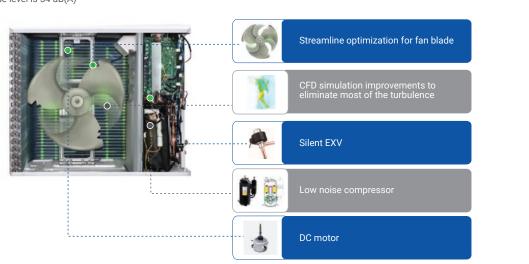
LED display on the PCB, it can show system's operation status and error codes.



Lower Noise

5 Major Technology Leads to Lower Noise •

The Min. noise level is 54 dB(A)



- 37 \cdot 38

HVMS-Mini

3.97

5.02

5.35

5.62

6.77

4 03

3.98

4.27

4.21

3.73 3.13

3.73

3.13

3.37

4.11 R410a 5.3

3.8

4.2

5.3

6.1

х 1445 х 1335 86.6 96.4 ф15.88

1278 1120 142 162

x x 415 400

90.1 100

94.7 104.4

1015x 112.7 126.8 φ19.05 1430x 450 112.7 126.8

X X 1703 1549 154 174 022.2 012.7 15

8.8

10.5

x 528 154 174

T1:47.8/T3:39.2 T1:3.80/T3:4.04 T1:3.68/T3:2.84 16 54

T1:76.4/T3:64.8 T1:6.85/T3:7.05 T1:3.27/T3:2.69 24 81.8

T1:33.5/T3:27.5 T1:114.3/T3:93.3 T1:9.77/T3:10.05 T1:3.43/T3:2.75 37.5 128 8.99

T1:28/T3:23.4 T1:95.5/T3:79.3 T1:8.54/T3:8.66 T1:3.28/T3:2.70 31.5 107.5 8.18 3.85

T1:20/T3:16.4 T1:68.2/T3:55.9 T1:5.92/T3:6.13 T1:3.38/T3:2.70 22 75

T1:4.53/T3:4.69 T1:3.53/T3:2.80 18 61

T1:5.18/T3:5.37 T1:3.47/T3:2.75 20 68







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



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

HVM-Multi ——

Rated current(T1/T3) A

EER (T1/T3) W/W

380-415/3/50

380-415/3/50

380-415/3/50

380-415/3/50

380-415/3/50

380-415/3/50

380-415/3/50

380-415/3/50

2.Heating Operation Conditions

HVMS06HG1Y2

HVMS07HG1Y2

HVMS08HG1Y2

HVMS09HG1Y2

Note

T1:14/T3:11.48

Γ1:16/T3:13.12

T1:18/T3:14.76

T1:22.4/T3:19

T1:26/T3:21

ndoor Air Inlet Temperature: 20.0°C DB,Outdoor Air Inlet Temperature: 7°C DB / 6°C WB

11.8 14.2 13.6

3.08 2.56 3.33 2.77 3.91 3.27

T1:54/T3:44.3

T1:61/T3:50

Indoor Air Inlet Temperature: 27°C DB / 19°C WB,T1: Outdoor Air Inlet Temperature: 35°C DB,T3: Outdoor Air Inlet Temperature: 46°C DB



	Capacity	Btu/h	30700	37500	47800	47780	54600	54600	58000	58020
leating	Power input	kW	2.65	3.1	3.52	3.52	4	4	4.4	4.4
	Rated current	Α	12	14	16.1	16.1	18.2	18.2	20	20
	COP	W/W	3.40	3.55	3.98	3.98	4.00	4.00	3.86	3.86
Compresso	r data									
C Inverter	Quantity		1	1	1	1	1	1	1	1
ompressor	Туре		Twin-rotary							
	Brand		Mitsubishi	GMCC	Mitsubishi	Highly	Mitsubishi	Highly	Mitsubishi	Mitsubishi
an data										
	Туре		DC							
an motor	Quantity		1	1	1	1	1	1	1	1

3.91 3.27

			7.0	20	100	70	100	100	100	100
Fan blade	Fan Quantity		1	1	1	1	1	1	1	1
i ali biade	Air flow	m³/h	3300	4000	5500	5500	5500	5500	5500	5500
Physical da	ata									
	Fin type		Hydrophilic Foil							
Outdoor coil	Number of rows		3	2	2	3	3	3	3	3
	Tube type		Inner-grooved copper tube							
Refrigerant	Туре		R410a							
nongoran	Volume	kg	2.00	2.60	3.00	3.00	3.45	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
Weight	Net	kg	47	60	85	67.4	90	90	90	90
· · · · · · · · · · · · · · · · · · ·	Gross	kg	50	65	95	72.2	100	100	100	100
ODU sound level		dB(A)	≤54	≤56	≤56	≤56	≤57	≤57	≤57	≤57
Operation t	emperature rang	ge								
Cooling	Outdoor side	r	-5~55	-5~55	-5~55	-5~55	-5~55	-5~55	-5~55	-5~55

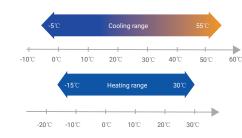
Note

- . The cooling conditions: indoor temp.:27 $^{\circ}$ DB(80.6 $^{\circ}$ F),19 $^{\circ}$ WB(60 $^{\circ}$ F)outdoor temp.:35 $^{\circ}$ DB(95 $^{\circ}$ 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(68°F),15°C WB(44.6°F),15°C WB(44.6°F),

Compact appearance

- The center of gravity has been reduced
- The vibration level is smaller
- It is suitable to be installed on terrace due to its compact appearance





Wide Outdoor Operation Range

Due to global warming, cooling ambient temperature • is designed up to 55℃.



Heating ambient temperature is down to -15 $^{\circ}$ C. In cold weather, • HDV 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.





Refrigerant cooling tech. for PCB

- Good performance with enhanced refrigerant cooling solution
- Intelligent refrigerant control technology to protect PCB
- Quick action speed to make the main PCB working at suitable temperature range
- High reliability



Indoor Units line Up



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

Capacity	Wall-mounted	Floor Ceiling	Short ceiling concealed ducted unit	Medium ESP ducted unit	High ESP ducted unit	Fresh air processor
(kW)	200					nn.
	•		•			
2.2						
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					•	•

2-way Cassette



Features

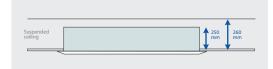
Accessories

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



Slim body, easy to install

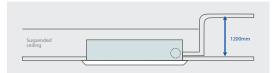
Has slim body with 250mm height, it is specially suitable for low suspended ceiling rooms.





Built-in with drainage pump

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



Specification

			Capa	city		Motor	Air	flow.	Sound	ESP		Dimensi	on(WxHxD)		Body V	Veight	Con			
Model name	Power type	Co	oling	Hea	ating	input	All	ilow	Level	ESP	Packing	Body	Panel packing	Panel	Net	Gross	Gas	Liquid	Drain	Standard controller
N/		kW	kBtu/h	kW	kBtu/h	kW	M³/h	CFM	DB(A)	Pa	mm	mm	mm	mm	kg	kg	mm	mm	mm	
	_	•	•	•	•		•	•	•	•			•		•	•	•			
HV-CS22Q1ACV	50Hz	2.2	7.5	2.5	8.5						1160	994	1090	1070						
HV-CS28Q1ACV	50Hz	2.8	9.5	3.2	10.9	0.04	520	306	32~36		275 X	250 X	65 X	X 50 X	24/3.6	30/5.0	Φ9.53			
HV-CS36Q1ACV	50Hz	3.6	12.2	4.0	13.6						655	532	540	520						
HV-CS45Q1ACV	50Hz	4.5	15.3	5.0	17.0	0.05	610	360	36~41	/	1160 X 315 X 655	994 X 290 X 532	1090 X 65 X 540	1070 X 50 X 520	26/3.6	32/5.0	Ф12.7	Φ6.35	ОДФ25	Remote controller
HV-CS56Q1ACV	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				
HV-CS71Q1ACV	50Hz	7.1	24.2	8.0	27.2	0.09	950	550	38~45		X 690	X 572	X 560	X 520			Ф15.9	Ф9.53		

Notes:

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

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

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

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



Features

Accessories

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



2 way air direction

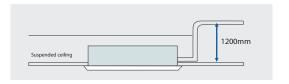
Two direction air flow, flexibly install in various rooms or hallway





Built-in with drainage pump

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



Specification

			Capa	city		Motor	Air f	law.	Sound	ESP	Dimension(WxHxD)				Body Weight		Connecting pipe				
Model name	Power type	Coc	ling	Hea	iting	input	All I	iow	Level	ESP	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)	Pa	mm	mm	mm	mm	kg	kg	mm	mm	mm		
		•	•	•	•	•	•	•	•	_	_	•			_	•	•	•	•	_	
HV-CS45Q2ACV	50Hz	4.5	15.3	5.0	17	0.07	800	900	470	36~42		1215 x 365	1068 x 310	1235 x 70	1205 X 50	33/6.5	36/8.5	412.7	AC 25		
HV-CS56Q2ACV	50Hz	5.6	19.1	6.3	21.4	0.07		470	30~42		X 630	x 517	x 655	X 630	33/0.5	30/8.5	Ф12.7	Ф6.35	ОДФ25	Remote controller	
HV-CS71Q2ACV	50Hz	7.1	24.2	8.0	27.2	0.10	1120	650	40~46	′	1455 x	1308 X	1475 X	1445 X	40/75	47/400	Ф15.9	Ф9,53	Ουψ25		
HV-CS80Q2ACV	50Hz	8.0	27.2	9.0	30.7	0.10	1120	650 4	40~40		365 x 630	310 x 517	70 x 655	50 x 630	40/7.5	47/10.0	Ψ13.9	Ψ9.55			

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

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

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



Features

Accessories

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



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



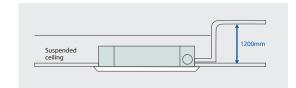




Built-in with drainage pump

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

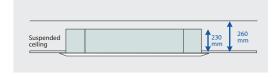
Note: The pumping head of 4-way cassette unit (compact type) is 700mm.





Slim body, easy to install

Has slim body with 230mm height, it is specially suitable for low suspended ceiling rooms.





Specification

4-way Cassette Unit(Compact type)

			Capa	city		Motor	Air		Sound	ESP		Dimensio	n(WxHxD)		Body V	Veight	Con	necting	oipe	2
Model name	Power type	Cod	oling	Hea	ting	input	AIF	iow	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	
	_	•	•		•		•	•		•	•	•		•	•					•
HV-CS22Q4ACV	50Hz	2.2	7.5	2.5	8.5	0.038	447	263	22~34						17.5	25	Ф9.53			
HV-CS28Q4ACV	50Hz	2.8	9.5	3.2	10.9	0.038	447	263	22~34		745 x 375	653 x 267	750 x 95	650 x 30	17.5	25	Ψ9.33	46.35	00435	Remote
HV-CS36Q4ACV	50Hz	3.6	12.2	4.0	13.6	0.040	515	303	27~38	,	X 675	x 585	x 750	x 650	17.5	25		Φ6.35	ОДФ25	controller
HV-CS45Q4ACV	50Hz	4.5	15.3	5.0	17	0.040	515	303	27~38					17.5	25	Φ12.7				

Round-flow Cassette

			Capa	city		Motor	Air	flow	Sound	ESP		Dimensio	n(WxHxD)		Body \	Veight	Cor	nnecting	oipe	
Model name	Power type	Coc	oling	Hea	ting	input	All	ilow	Level	ESP	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)	Pa ~	mm	mm	mm	mm	kg ~	kg ~	mm	mm	mm	V
HV-CS56QRACV	50Hz	5.6	19.1	6.3	21.4	0.09	860	500	32~39		920	833			24	30	Ф12.7	Ф6.5		
HV-CS71QRACV	50Hz	7.1	24.2	8.0	27.2		1200	1200 700 3	35~39		x 265 x	x 232 x			24	30				
HV-CS80QRACV	50Hz	8.0	27.2	8.8	30		1200		33~39		985	900			24	30				
HV-CS90QRACV	50Hz	9.0	30.7	10	34.1	0.18							4000	050	28.5	30				
HV-CS100QRACV	50Hz	10	34.1	11	37.5	0.16				/			1030 x 105 x	950 x 50 x	28.5	35	Φ15.9	Φ9.52	Ф25	Remote controller
HV-CS112QRACV	50Hz	11.2	38.2	12.5	42.6		1400	820	37~41		920 x 310	833 x 286	1030	950	28.5	35	Ψ15.9	Ψ9.52		
HV-CS125QRACV	50Hz	12.5	42.6	14	47.7			00 1050 38~42		x 985	x 900			28.5	35					
HV-CS140QRACV	50Hz	14	47.7	15	51.1	0.27	1900							28.5	35					
HV-CS160QRACV	50Hz	16	54.5	17	58	0.27	1800	1050	38~42					28.5	35					

1.5 Devier supply: 220°240V/1N for 50Hz;208°230V/1N for 60Hz
2.Cooling test condition: indoor side 27°C DB.19°C WB outdoor side 35°C DB.Heating test condition: indoor side 20°C DB.15°C WB outdoor side 7°C DB
3.Sound level: measured at a point 1 m in front of the unit at a height of 1.5m. During actual operation, these values are normally somewhat higher as a result of ambient conditions.

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

Short Ceiling Concealed Ducted Unit



Features

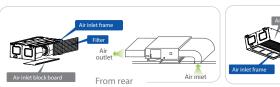
Accessories

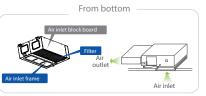
Plenum box	Air filter	EXV	Drain pump	AC motor	DC motor
Standard	Optional	Standard(built-in)	Optional	Standard	Optional



Flexible installation

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







Short body, easy to install.

Has short body, minimum 700mm width, It is specially suitable for installation location in entrance ceiling of hotel room. Low noise and light Weight.



Drain pump is optional

Pumping head is 700mm.



\$ 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.





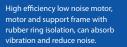


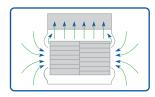






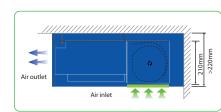






Slim body, easy to install

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









Specification

			Capa	city		Motor	Aire	flow	Sound	ESP		Dimension	n(WxHxD)		Body V	Weight	Cor	necting	pipe	
Model name	Power type	Coc	oling	Hea	iting	input	AIF	now	Level	ESP	Packing	Body	Panel packing	Panel	Net	Gross	Gas	Liquid	Drain	Standard controller
<u> </u>		kW	kBtu/h	kW	kBtu/h	kW	M³/h	CFM	DB(A)	Pa	mm	mm	mm	mm	kg	kg	mm	mm	mm	
HV-DL22ACV	50Hz	2.2	7.5	2.5	8.5	0.05	450	260	24.20	24~29					16	18.5	Ф9.53			
HV-DL28ACV	50Hz	2.8	9.5	3.2	10.9	0.03	450	200	24~29		910 x	814 x			16	18.5	Ψ3.55			
HV-DL36ACV	50Hz	3.6	12.2	4	13.6	0.07	550	324	25~32	30	240 x 510	210 x 467			16.5	19		Ф6.35		
HV-DL45ACV	50Hz	4.5	15.3	5	17	0.08	620	360	32~37	30			/	/	16.5	19	Ф12.7		ОДФ25	Wired controller
HV-DL56ACV	50Hz	5.6	19.1	6.3	21.4	0.09	800	520	28~38		1110	1010 X 210 X 467			21	24				
HV-DL71ACV	50Hz	7.1	24.2	8	27.2	0.11	1000	640	30~39		1310 X 240 X 510	1214 X 210 X 467			25.5	28.5	Ф15.9	Ф9.53		

- 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 impr

Medium Static Pressure Ducted Unit



Features

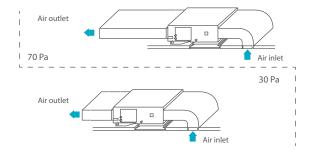
Accessories

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



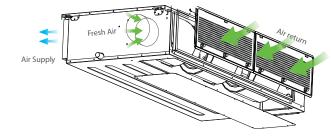
Static pressure

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



Fresh air intake

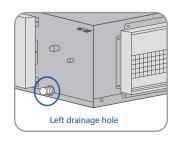
A reserved outside air intake port allows outdoor air to be introduced directly into the unit, no need for a seperate ventilation

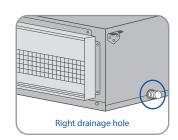




Convenient in drainage pipe install ation

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.

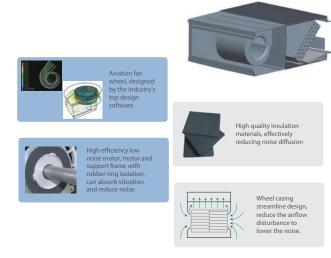




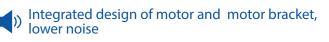


Low noise design

Using multiple noise reduction technology, including the design of high efficiency $% \left(1\right) =\left(1\right) \left(1\right$ 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.



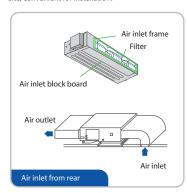


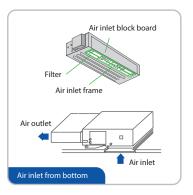




Two air return installation methods

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





Specification

			Capa	city		Motor			Sound	ESP		Dimensio	n(WxHxD)		Body V	Veight	Cor	necting	oipe	
Model name	Power type	Cod	oling	Hea	ating	input	Airt	low	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	
		_		_	_	_	_	_	_				_				_			_
HV-DM71ACV	50Hz	7.1	24.2	8.0	27.2	0.30	1220	710	36~41		1255 x 325	1209 x 260			33	37				
HV-DM80ACV	50Hz	8.0	27.2	9.0	30.7	0.50	1220	710	30 41		x 720	x 680			33	37				
HV-DM90ACV	50Hz	9.0	30.7	10.0	34.1		1850	1080	38~43	70					46	50	****	40.50	00.00	Wired
HV-DM100ACV	50Hz	10.0	34.1	11.0	37.5	0.34				70	1490 x 325	1445 X	/	/	46	50	Φ15.9	Φ9.53	ОДФ25	controller
HV-DM120ACV	50Hz	12.0	40.9	13.0	44.3	0.34	2000	00 1170	40~44		325 X 720	260 x 680			46	50				
HV-DM150ACV	50Hz	15.0	51.1	17.0	58										46	50				

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

2.Cooling test condition: indoor side 27°C DB,19°C WB outdoor side 35°C DB.Heating test condition: indoor side 20°C DB,15°C WB outdoor side 7°C DB
3.Sound level: measured at a point 1 m in front of the unit at a height of 1.5m. During actual operation, these values are normally somewhat higher as a result of ambient conditions

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

High Static Pressure Ducted Unit



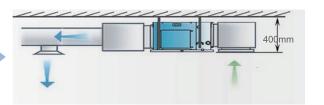
Features

Accessories

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

Slim body, saving suspended ceiling spaces

Slim body, saving suspended ceiling spaces.





Can be used with various diffusers











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

High static pressure

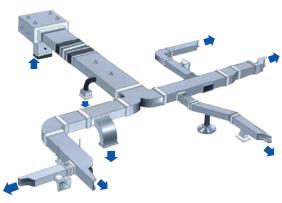
Big air flow with high static pressure, easy for large rooms duct design. Suitable for different shape of rooms.







High static pressure ducted unit



Long distance multi-point air supply

Specification

			Capa	icity		Motor			Sound	550	Dimension(WxHxD)	Body V	Veight	Cor	nnecting	pipe	
Model name	Power type	Coc	ling	He	ating	input	Air	low	Level	ESP	Packing	Body	Net	Gross	Gas	Liquid	Drain	Standard controller
~		kW	kBtu/h	kW	kBtu/h	kW	M³/h	CFM	DB(A)	Pa	mm	mm	kg ~	kg ~	mm	mm	mm	V
HV-DH71ACV-A	50Hz	7.1	24.2	7.8	26.6						1490	1445	46	50				
HV-DH80ACV-A	50Hz	8.0	27.2	8.8	30	0.34	1500	880	40~42		x 325 x	260 X	46	50				
HV-DH90ACV-A	50Hz	9.0	30.7	10.0	34.1						720	680	46	50	Ф15.9	Φ9.53	ΟDΦ25	
HV-DH100ACV-B	50Hz	10.0	34.1	11.0	37.5						1245	1190	47	51	Ψ15.9	Ψ9.53	ΟυΦ25	
HV-DH120ACV-B	50Hz	12.0	40.9	13.0	44.3	0.45	2300	1350	44~52		x 445 x	370 X	47	51				
HV-DH150ACV-B	50Hz	15.0	51.1	17.0	58.0					150	655	620	47	51				Wired controller
HV-DH200ACV-B	50Hz	20.0	68.2	22.0	75.0	1.2	4000	2350	45~53		1510x580x870	1465x448x811						
HV-DH250ACV-B	50Hz	25.0	85.3	27.5	93.8	1.2	4200	2470	45~54		1510x580x870	1465x448x811	400	443	****	440.7	00400	
HV-DH280ACV-B	50Hz	28.0	95.5	30.8	105.0	1.2	4400	2580	45~55	_	1510x580x870	1465x448x811	102	113	Ф22.2	Ф12.7	ОДФ30	
HV-DH450ACY	50Hz	45.0	153.5	50.0	170.6	1.6	6000	3520	60	200	2267 x	2165 x	222	260	Ф28.6	Ф15.9	ΟDΦ32	
HV-DH560ACY	50Hz	56.0	191.0	63.0	214.9	2.5	8000	4700	64	200	840 x 1050	676 x 916			\$20.0	4.3.3	00402	

- 1.Power supply: 220~240V/1N for 50Hz;208~230V/1N for 60Hz
 2.Cooling test condition: indoor side 27°C DB,19°C WB outdoor side 35°C DB.Heating test condition: indoor side 20°C DB,15°C WB outdoor side 7°C DB
 3.Sound level: measured at a point 1 m in front of the unit at a height of 1.5m. During actual operation, these values are normally somewhat higher as a result of ambient conditions.
- 4.The above data may be changed without notice for future improvement on quality and performance.

Wall Mounted Unit



Features

Accessories

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



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

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

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



Flexible in installation

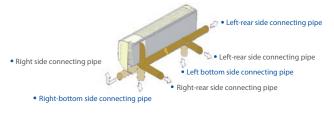
Refrigerant pipe can be connected from 3 directions.



Wide adjustable angle air supply

 $65^{\circ}~$ Wide angle air supply, louver angle can be fixed or set to auto-swing by controller.





Specification

Model			HV-WM22GDCVA	HV-WM28GDCVA	HV-WM36GDCVA	HV-WM45GDCVB	HV-WM56GDCVB	HV-WM71GDCVB
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
Сарасну	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	n motor Speed (Hi/Med/Low)		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	972x320x215	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 pipe	2	mm	Ф6.35/Ф9.53	Ф6.35/Ф9.53	Φ6.35/Φ12.7	Ф6.35/Ф12.7	Φ6.35/Φ12.7	Ф9.52/Ф15.88
Drainage water pipe (Outer diameter)		mm	Ф20	Ф20	Ф20	Ф20	Ф20	Ф20
Operation temperat	ure	°C	16~32	16~32	16~32	16~32	16~32	16~32

- Notes:
 1.Power supply: 220~240V/1N for 50Hz;208~230V/1N for 60Hz
 2.Cooling test condition: indoor side 27°C DB,19°C WB outdoor side 35°C DB.Heating test condition: indoor side 20°C DB,15°C WB outdoor side 7°C DB
 3.Sound level: measured at a point 1 m in front of the unit at a height of 1.5m. During actual operation, these values are normally somewhat higher as a result of ambient conditions.
 4.The above data may be changed without notice for future improvement on quality and performance.

Wall Mounted Unit



Floor Ceiling Unit



Features

Accessories

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



Flexible installation

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



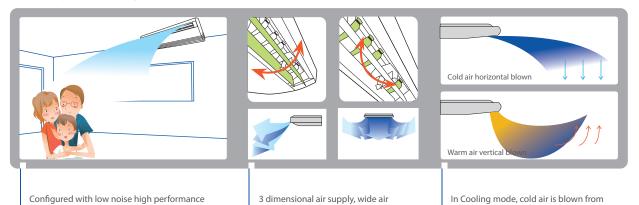
horizontal. In heating mode, warm air is

blown from vertical.

Wide angle air supply

centrifugal fans, has big air flow and long

distance air supply.



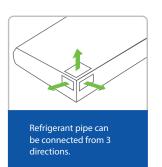
supply angle, easily supply to every

corners.

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

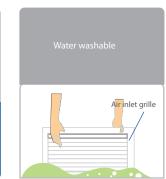
2.Cooling test condition: indoor side 27°C DB,19°C WB outdoor side 35°C DB.Heating test condition: indoor side 20°C DB, 15°C WB outdoor side 7°C DB

Easy for installtion















Specification

		Capacity			Motor input	Air	flow		Dimensio	n(WxHxD)	Body W	eight	Connecting pipe					
Model name	Power type	Co	oling	Hea	ating	Motor Input	AII	IIOW	Sound Level	Packing	Body	Net	Gross	Gas Liqui		Drain	Standard controller	
		kW	kBtu/h	kW	kBtu/h	kW	M³/h	CFM	DB(A)	mm	mm	kg	kg	mm	mm	mm	v v	
HV-CF36ACVA	50Hz	3.6	12.3	4.0	13.7													
HV-CF45ACVA	50Hz	4.5	15.3	5.0	17	0.09	800	470	32~46	1130 x 765 x	1050 x 675 x	26.5	31.5	Ф12.7	Ф6.35	DN20		
HV-CF56ACVA	50Hz	5.6	19.1	6.3	21.4					330	235							
HV-CF71ACVB	50Hz	7.1	24.2	8.0	27.2	0.10	1200	706	41~48	1380 x 765	1300 x 675	32.5	37.5			DN20		
HV-CF80ACVB	50Hz	8.0	27.2	8.8	30					x 330	x 235						Remote	
HV-CF90ACVC	50Hz	9.0	30.7	10.0	34.1									Ф15.9	Ф9.52		controller	
HV-CF112ACVC	50Hz	11.2	38.2	12.5	42.6	0.20	2000	1177	38~53	1750 x 765	1670 x 675		47.0					
HV-CF140ACVC	50Hz	14.0	47.7	15	51.1		2500	1177	30.53	x 330	x 235	71.0						
HV-CF160ACVC	50Hz	16.0	54.5	17	58													

3. 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. 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(built-in)	Optional	Standard	/



Healthy and comfortable

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



100% Fresh air processing unit

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

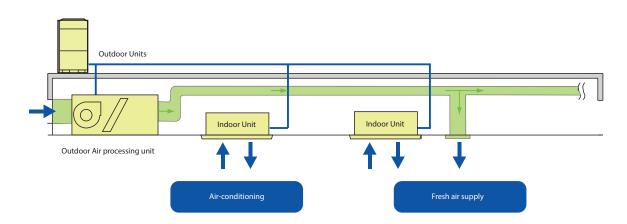


High external static pressure

External static pressure can be up to 300Pa for more flexible duct applications. The maximum distance of air supply is about 20m and the maximum height of air supply is about 6.5m.

Innovative air supply technology for excellent room temperature control

Fresh air unit can be connected with other type indoor units(only for 14/22.4/28kw fresh air unit). Layout Example:



Specification

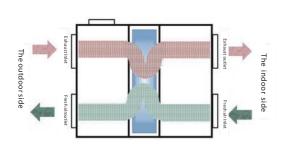
			Capa	icity		Motor	Air f	low	Sound	ESP		Dimensio	n(WxHxD)		Body	Weight	Cor	necting	pipe	
Model name	Power type	Cod	oling	Hea	iting	input	All I	IOW	Level	LSF	Packing	Body	Panel packing	Panel	Net	Gross	Gas	Liquid	Drain	Standard controller
~	×	kW	kBtu/h	kW	kBtu/h	kW	M³/h	CFM	DB(A)	Pa	mm	mm	mm	mm	kg ~	kg ~	mm	mm	mm	V
HV-DFAP140ACV-A	50Hz	14.0	47.7	9.0	30.7	0.45	1400	820	42~48	220	1245 x 445 x 655	1190 x 370 x 620			47	51	Ф15.9	Ф9.53		
HV-DFAP224ACV-B	50Hz	22.4	76.4	16.0	54.5	1.2	2000	1170	45~52	220	1510 x 580 x 870	1465 x 448 x 811			100	111			OD Φ25	
HV-DFAP280ACV-B	50Hz	28.0	95.5	20.0	68.2	1.2	2800	1640	45~52	220	1510 x 580 x 870	1465 x 448 x 811	/	/	100	111	Ф 22.2	Ф12.7		Wired controller
HV-DFAP450ACY-C	50Hz	45.0	153.5	31.4	107.1	1.6	4000	3520	58	300	2267 x 840 x 1050	2165 x 676 x 916			222	260				
HV-DFAP560ACY-C	50Hz	56.0	191.0	39.0	133.0	2.5	6000	4700	62	300	2267 x 840 x 1050	2165 x 676 x 916			222	260		Ф15.9	OD Φ32	

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

- 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
- 3.5 ound 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

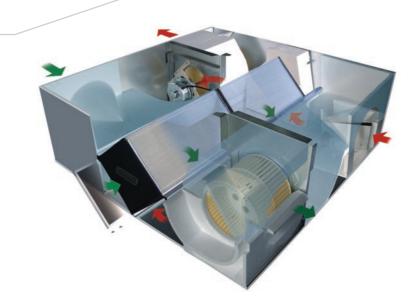


How it works

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

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

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

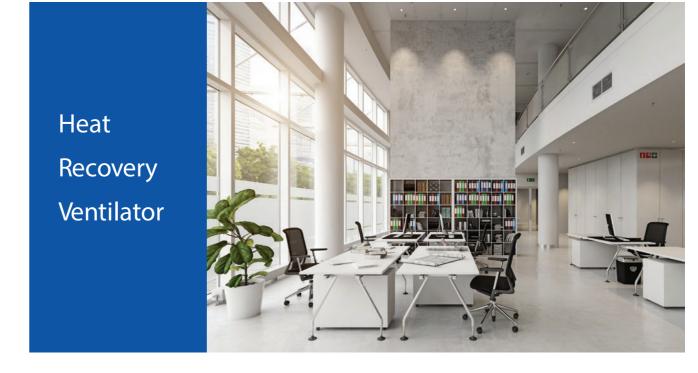


Specification

Supspended type specification

Model name	Air flow	ESP	Power input	Power suppy	Temperature efficier		Enthalpy e		Noise	Body dimension (WxDxH)	Weight
	M³/h	Pa	w	(V)	Cooling	Heating	Cooling	Heating	dB(A)	mm	kg
	•					•					
HRV-02D	200	75	65		60.0	65.0	50.0	55.0	30	666x580x264	25
HRV-03D	300	75	130		60.0	65.0	50.0	55.0	33	744x599x270	27
HRV-04D	400	80	200		60.0	65.0	50.0	55.0	35	744x804x270	30
HRV-05D	500	80	220	220V/1N/50Hz	60.0	65.0	50.0	55.0	38	824x904x270	41
HRV-06D	600	90	242		60.0	65.0	50.0	55.0	40	824x904x270	42
HRV-08D	800	100	410		60.0	65.0	50.0	55.0	42	1116x884x388	68
HRV-10D	1000	150	510		60.0	65.0	50.0	55.0	43	1116x1134x388	82
HRV-13D	1300	150	530		60.0	65.0	50.0	55.0	45	1116x1134x388	82
HRV-15DS	1500	160	1000		60.0	65.0	50.0	55.0	51	1600x1200x540	200
HRV-20DS	2000	170	1200		60.0	65.0	50.0	55.0	53	1650x1400x540	225
HRV-25DS	2500	180	2000		60.0	65.0	50.0	55.0	55	1430x1610x600	240
HRV-30DS	3000	200	2100		60.0	65.0	50.0	55.0	57	1600x1700x640	270
HRV-40DS	4000	220	2400	380V/3N/50Hz	60.0	65.0	50.0	55.0	60	1330x1725x1050	265
HRV-50DS	5000	240	3000	3600/310/30012	60.0	65.0	50.0	55.0	61	1660x1820x1050	280
HRV-60WS	6000	290	3600		60.0	65.0	50.0	55.0	70	1660x1820x1050	310
HRV-70WS	7000	310	4200		60.0	65.0	50.0	55.0	73	2060x1660x1168	360
HRV-80WS	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 $^{\circ}$ DB, 19.5 $_{\circ}$ WB $_{\circ}$ outdoor fresh air 35 $^{\circ}$ DB, 28 $^{\circ}$ C; 2.Heating test condition: indoor side 21 $^{\circ}$ DB, 13 $_{\circ}$ WB outdoor fresh air 5 $^{\circ}$ DB, 2 $^{\circ}$ C; 3.The above data may be changed without notice for future improvement on quality and performance.



Air Handler Unit

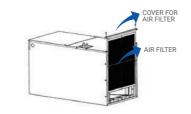


Features





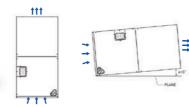
Detachable air filter for cleaning or renewal.





Multi-position installation

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



 ${}^\star \text{Note:} \text{Installation of vertical up airflow and horizontal right airflow needs to be customized.}$

Specification -

		Capacity			Power	Air flow Sound		ESP	Dimension(WxHxD)			Body Weight		Connecting pipe				
Model name	Power type	Co	oling	Hea	ating	input	All	IUW	Level E		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	
	_	•	•	•	~	~	~	~	~	•	•	•	•	~	~	~	•	•
HV-V71AH/HNR1	60Hz	7.1	24.1	8.0	27.2	290	1500	882.3	51~54	25	774x520x460	834x520x565	36	39	Ø15.88	Ø9.52	Ø20	Wired Controller
HV-V105AH/HNR1	60Hz	10.5	35.7	11.5	39.1	290	1500	882.3	51~54	37	774x520x460	834x520x565	36	39	Ø15.88	Ø9.52	Ø20	Wired Controller
HV-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 $^{\circ}$ C DB, 19 $^{\circ}$ C WB,outdoor side 35 $^{\circ}$ C DB. Heating test condition: Indoor side 20 $^{\circ}$ C DB, 15 $^{\circ}$ C WB,outdoor side 7 $^{\circ}$ 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 Remote Controllers -



Wired Controllers



Touch Screen Wired Controller



Simple Centralized Controller



- Easy to install. Controller connects to outdoor units only.
- Able to install this controller after building decoration.
- 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 —

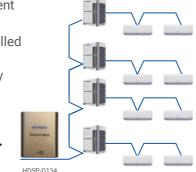
Available on iOS and Android



· Remote control via cloud server



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



Touch Screen Centralized Controller



















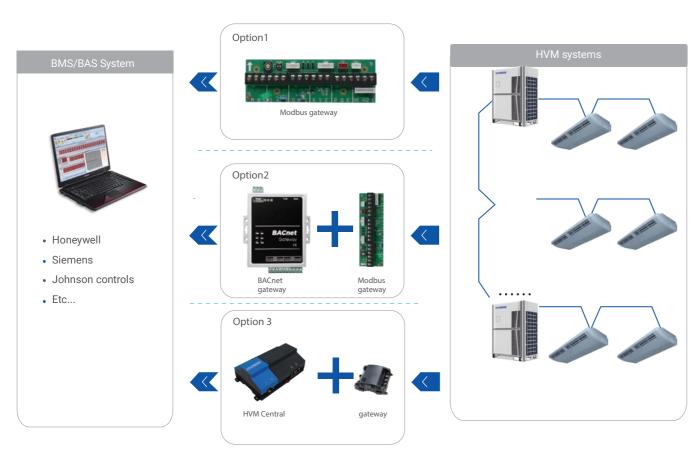
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BMS Gateway

Modbus gateway

Outdoor unit built in with Modbus gateway can be customized

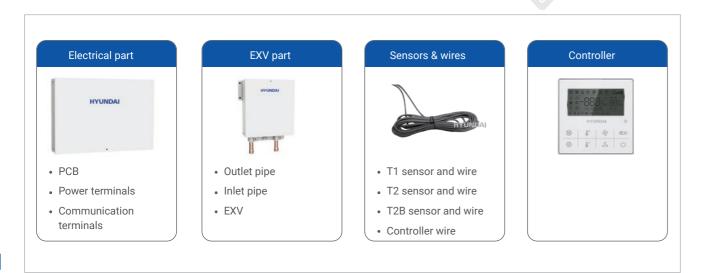
BACnet gateway | Verified by BACnet International, fully compatible with all BACnet protocol product

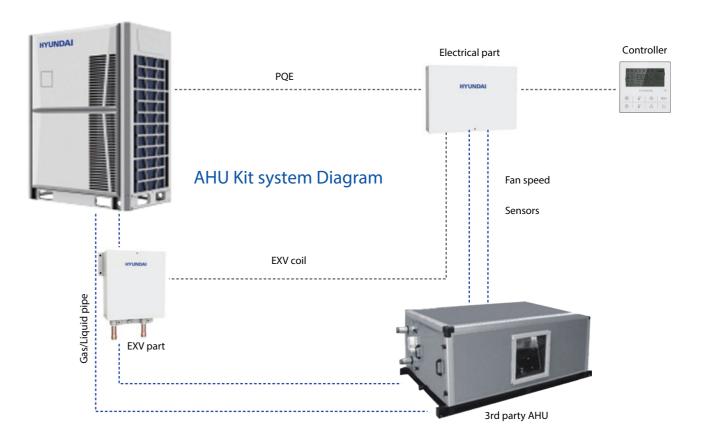


AHU Connection Kit -

- HYUNDAI AHU kit is an interface that allows 3rd party manufacturer's AHU connecting to HYUNDAI 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.

HYUNDAI AHU Connection Kit





VRF Selection Software Pro

