



DC INVERTER VRF SYSTEM

Product Catalogue





Enthalpy Difference Lab



Laboratory Control Room



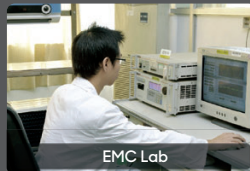
R&D
Strength



200kg Transport Simulation Platform



Professional Engineers



EMC Lab



Noise Test Lab



200HP Long-term Running Lab



Modular Chiller Test Lab



Electromagnetic Vibration Lab

The R&D center of GCHV has more than 200 technical engineers. And 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 GCHV and served as senior technical consultants. GCHV pay great attention in R&D and invest 4.5% of annual income every year to develop new technology, by continuous innovation, GCHV 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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2002

Develop intelligent VRF system, enter VRF market.



2004

Successfully developed intelligent inverter VRF system.



2009

Upgrade performance, launch more stable, energy saving, and more comfortable super DC inverter module.



2011

Launch new CMV system adopt the industry fourth generation core technology, both process and quality upgrade.



2013

Full DC inverter CMV-X was successful developed.

VRF Development History



2020

CHV-Pro got Eurovent certification in 2020



2019

Launched New generation CHV-Pro VRF series.



2018

Launched CMV-X Full DC inverter EVI VRF system.



2017

CMV-X got EUROVENT certification in 2017. Become 2018 Russia World Cup HVAC equipment supplier.



2016

Launched CMV-R heat recovery VRF system.



2015

New CMV-C series launched with high efficiency and excellent performance.

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



26/28/30/32HP



24HP



22HP



18/20HP



14/16HP



8/10/12HP

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

How To Read The Model Name



outdoor unit

DBV - V 280 W / Z R1 - B

CMV/CHV/GCHV VRF system
Inverter code
V: Full DC Inverter
VH: Side discharge outdoor unit
VT: T3 Inverter
R: Heat Recovery DC Inverter

Capacity(*100W)

Design code B: 2nd generation
Refrigerant type R1: R410a
Power supply
Z: 380-415V/3PH/50Hz
Y: 380-415V/3PH/60Hz
X: 208-230V/3PH/60Hz
Outdoor unit



Indoor unit

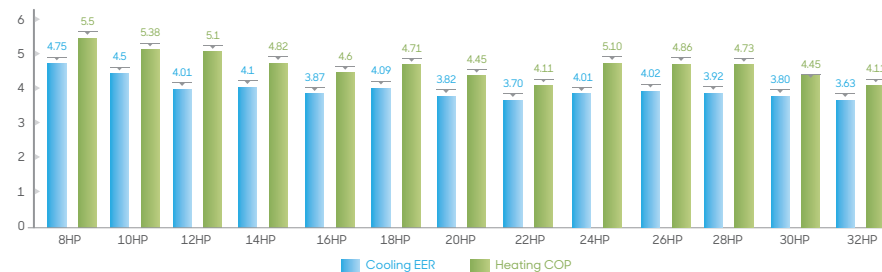
DBV - V 125 TB / H N R1

CMV/CHV/GCHV VRF system
Motor code
V: AC Fan Motor
D: DC Fan Motor

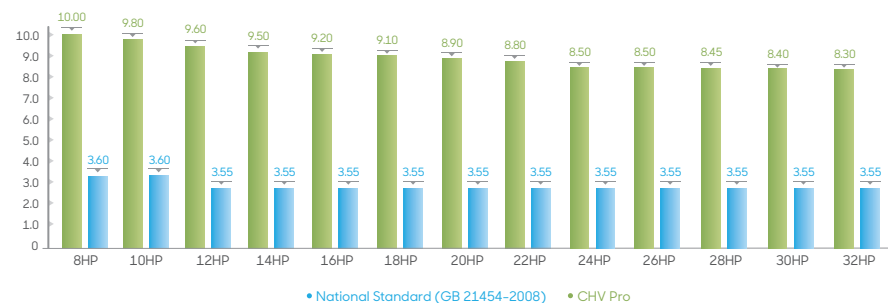
Capacity(*100W)

Refrigerant type R1: R410a
Power supply
O: 220-240V/1PH/50Hz
N: 220-240V/1PH/60Hz
Function code H: Heat pump
Indoor unit code
Q: 4-way cassette
Q4: 4-way cassette (compact type)
G: Wall-mounted
TA: Low ESP ducted
TB: Medium ESP ducted
TH: High ESP ducted
LD: Floor ceiling

EER&COP



IPLV(C)



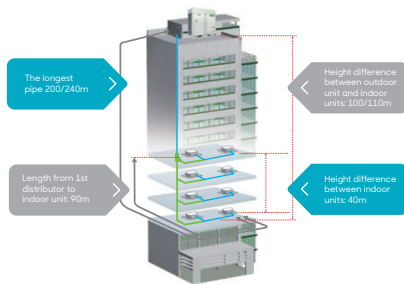
Combination Table

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

*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.

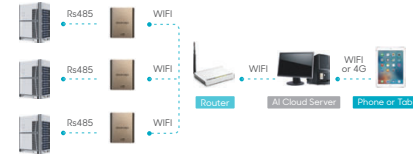
Long Piping & Height Difference

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



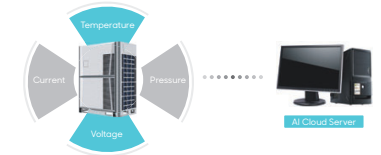
Features

Long Distance Remote Control
Long distance remote control by phone or tablet.



Malfunction Forecasting

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



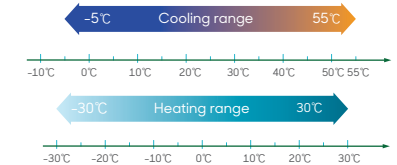
Refrigerant Cooling Design

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



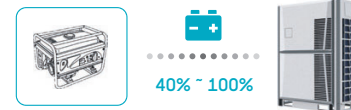
Wide Outdoor Operation Range

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



Power Saving Mode

In the case of power shortage, CHV 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:



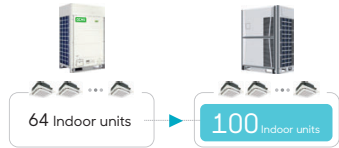
- 4: Extremely insufficient
- 12: Insufficient
- 11: Slightly insufficient
- 0: Normal
- 1: Slightly excess
- 2: Overmuch

Features



More indoor units

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



Electrical Lock Function(optional)



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

System can be unlock with password by authorized technician.



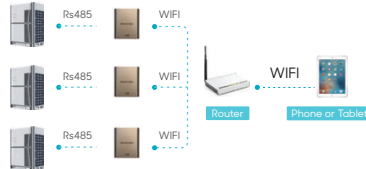
Wireless Communication(optional)

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



On Site Diagnosis

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



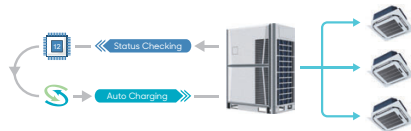
Service Window On Front Cover

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)

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



13 Basic Modules



Maximum 96HP



Max.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.

1

High Efficiency

2

Benefits For Users

3

Benefits For Installers

Advantages



Provide You With Fresh Air



1 High Efficiency

Low carbon life advocate

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

Core Technologies Make High Efficiency

Brushless DC Motor

- High efficiency
- Low noise

180° Sine Wave Control

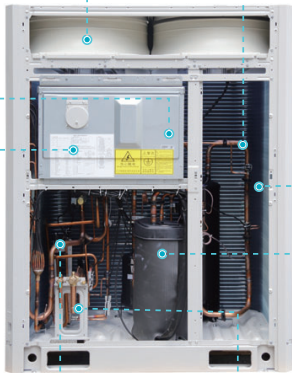
- High precision rotor speed control

Stepless Control

- On-demand output, high efficiency and energy saving

CCT Inner-grooved Tube

- Excellent heat-exchanging efficiency



2-in-1 Refrigerant Flow Path

- Increase the liquid refrigerant volume proportion

Cross Flow Fins

- Enhance the supercool of refrigerant to increase system's efficiency

DC Inverter Compressors

- High pressure type
- Asymmetric scroll design
- Neodymium permanent Magnet rotor

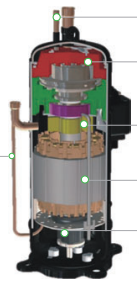
Supercooling Design

- Reduce air resistance
- Frosting improved

High Efficiency DC Inverter Compressor

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

Oil balance design, pump extra oil to other compressor.



- Vapor injection pipe, better performance in low temperature.
- Vapor injection pipe, better performance in low temperature.
- High strength bearing, high rigidity shell.
- Wide frequency range.
- Build in oil pump, active oil supply when compressor is running.

Neodymium permanent magnet rotor

Powerful magnetic force, large force moment and high efficiency.

Ferrite magnet Neodymium permanent magnet

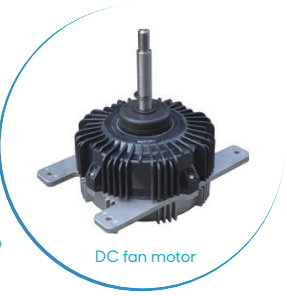
Concentrated winding

Magnetic efficiency is 12% higher than distributed winding

Concentrated winding Distributed winding

High Efficiency DC Motor

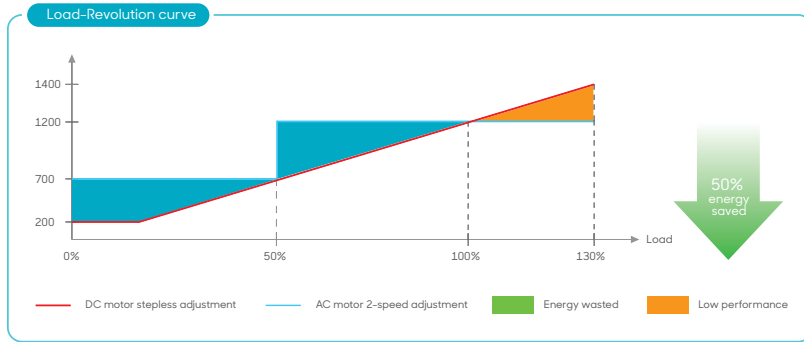
- High efficiency DC fan motor is from well-known brand.
- Low noise and high efficiency because of high-density wire winding engineering.
- Brushless with built-in sensor.





Stepless Control

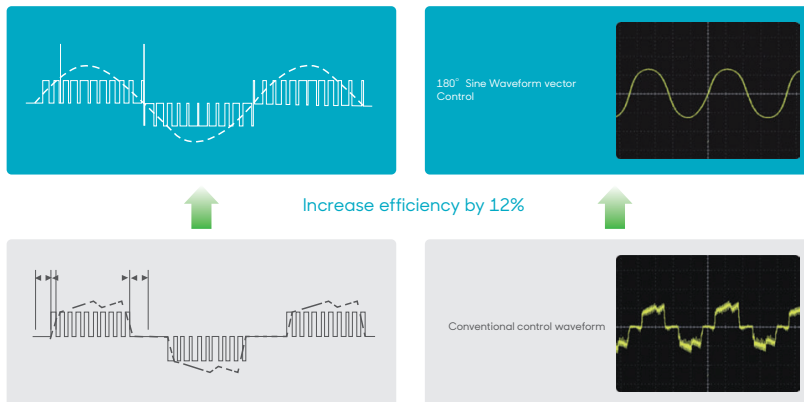
DC fan motor can be stepless controlled by outdoor PCB according to system's operating pressure. And it is able to reduce the energy consumption and maintain the system in the best performance.



180°

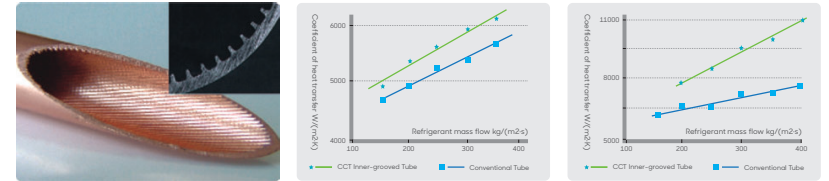
180° Sine Waveform Control

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%.

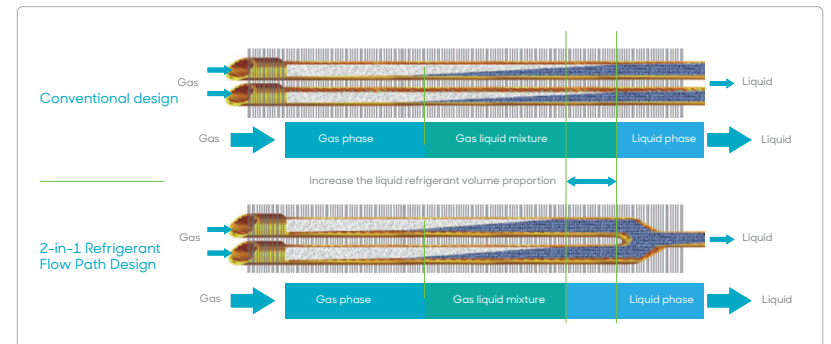
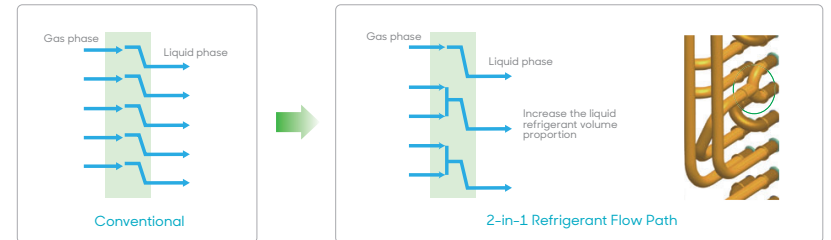


CCT Inner-grooved Tube

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



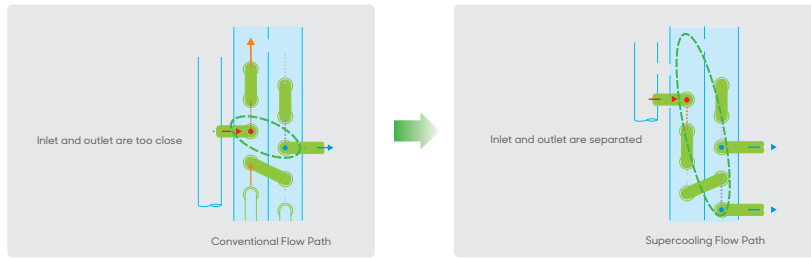
2-in-1 Refrigerant Flow Path Design





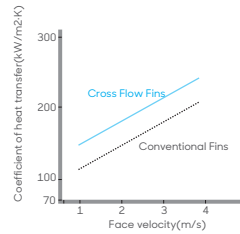
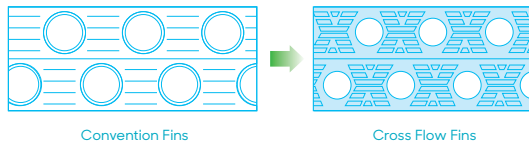
Supercooling Flow Path Design

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



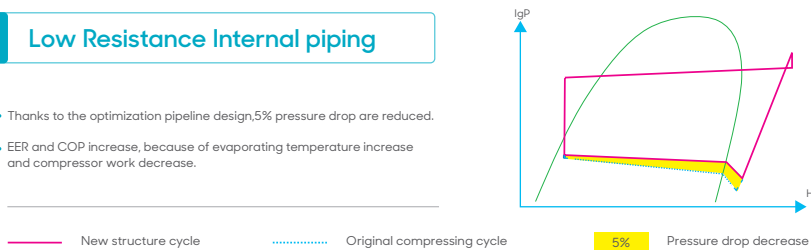
Cross Flow Fins

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



Low Resistance Internal piping

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



2

Benefits For Users

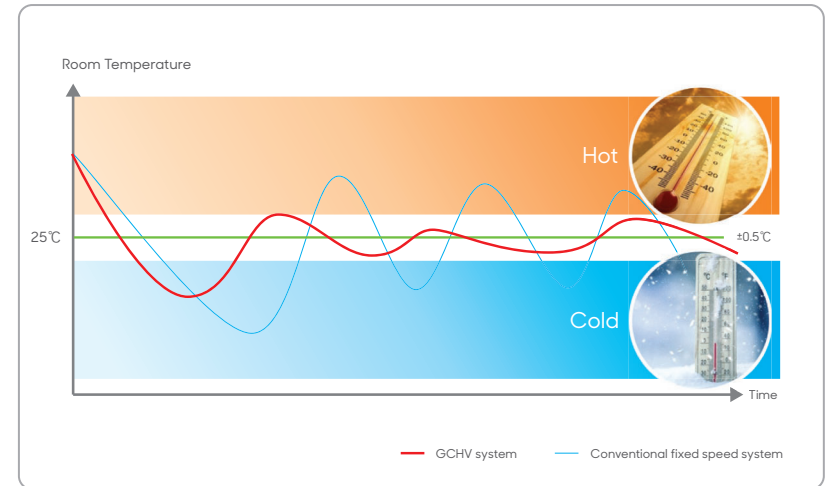
Livable environment creator

GCHV 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

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



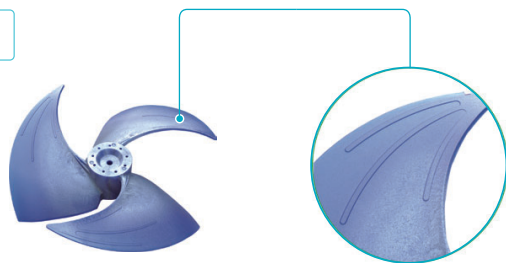
7 Improvements To Reduce Noise

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



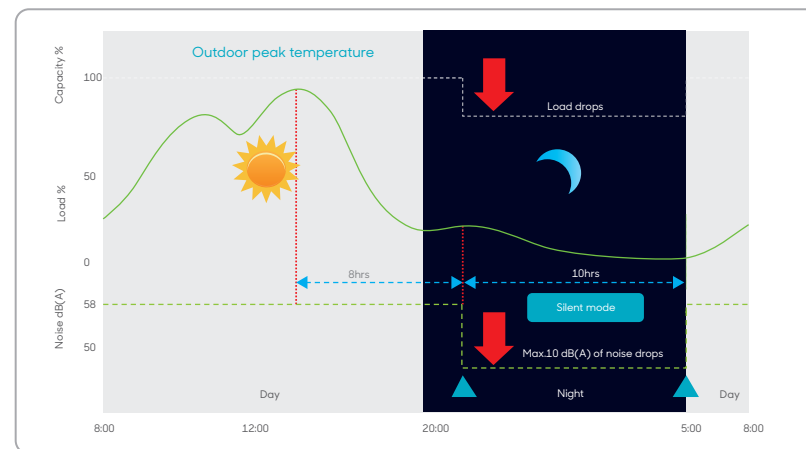
Low Noise Fan Blade

- Anti-vibration forward fan blade.
- Special design to reduce the air vibration and disturbance



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.
- It only start when temperature is lower than 0°C.



The PHE Economizer

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



◀ PHE Economizer

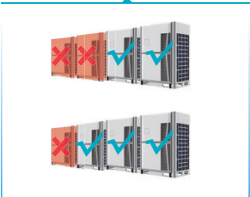
The PHE economizer need customization.



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.

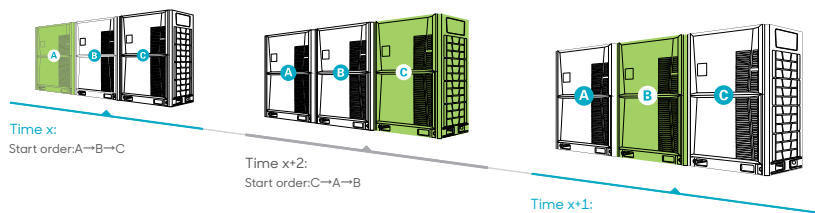


Fan motor back up function.

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



All Outdoor Units Cycle Operation



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

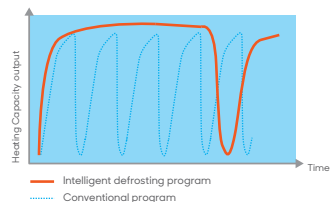


Intelligent Defrosting Program

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

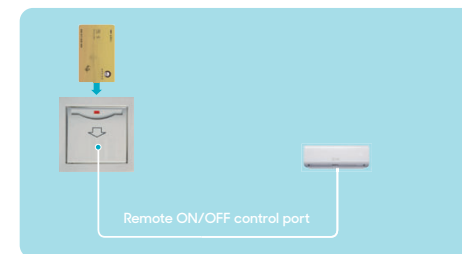
Defrost Curve

- 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 more comfortable



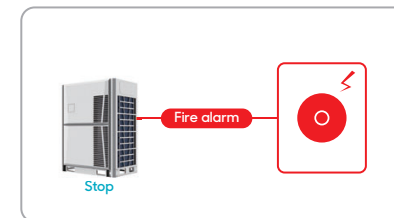
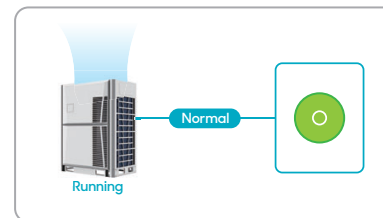
Remote ON/OFF Control Function

- 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.



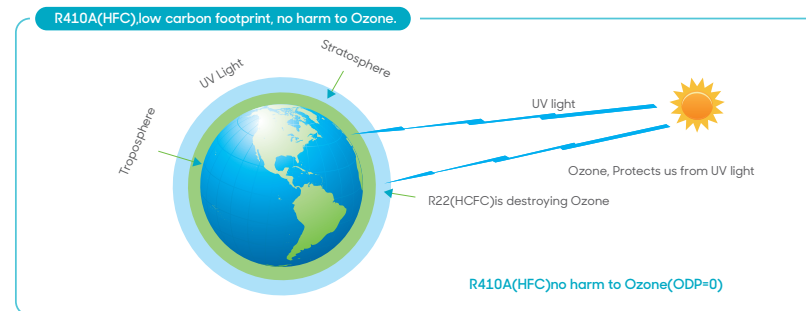
Emergency Stop Operation Function

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.





3 Benefits For Installers

Optimization for designer and installer

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

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.

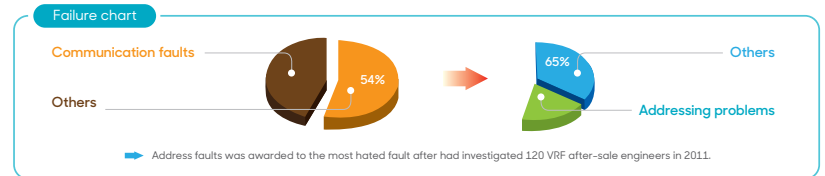
Addressing Methods



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

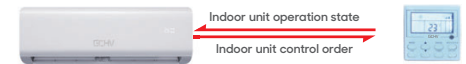
Automatic Addressing

- 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.



Easy
Safe
Convenient

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

LED Display On The PCB

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

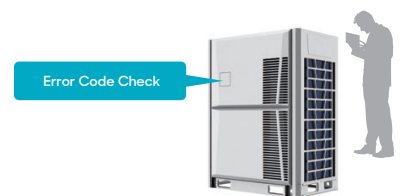


- Record error code list at main PCB chip, easy for service people to check.



Service Window

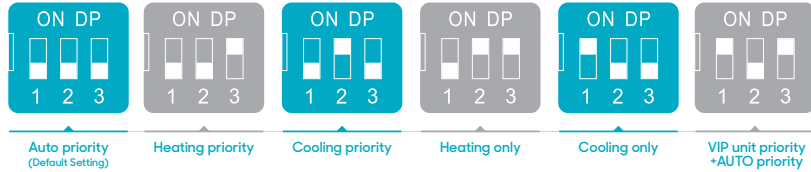
Thanks to the service window, checking outdoor unit's status and setting is now easy, no need to remove the electric control box cover.



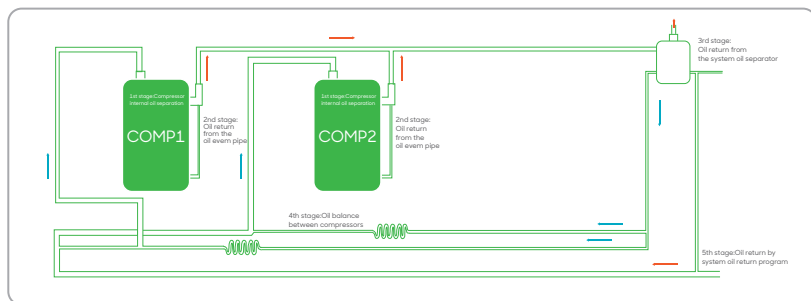
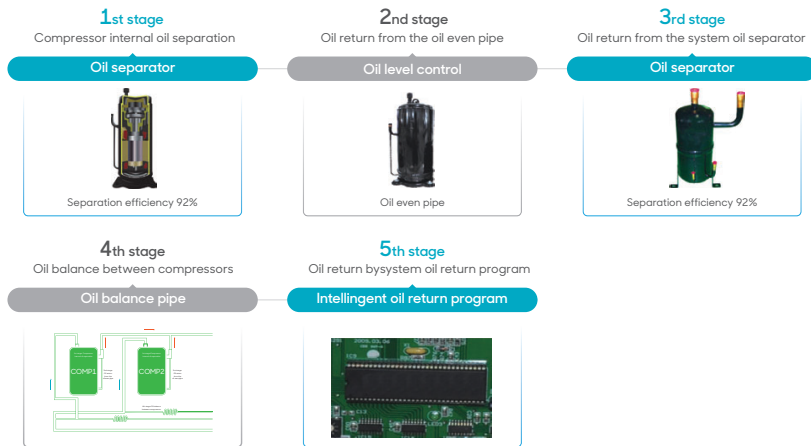


Mode Restriction

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



5-Stage Oil Control



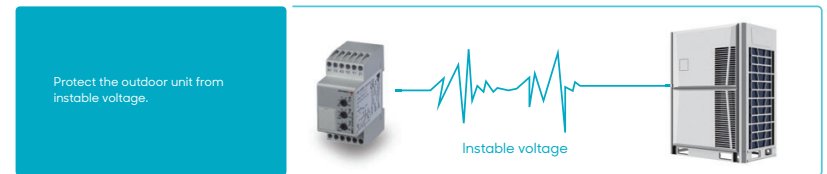
Humanized Internal Structure



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



3-Phase Power Protector (Optional)



Easy Installation



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



Use 2-Core Shielded Wire As Signal Wire



- Save installation cost.
- Reduce manual works.

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

Model Name			DBVU-E252W/HZRI-DK01	DBVU-E280W/HZRI-DK01	DBVU-E335W/HZRI-DK01	DBVU-E400W/HZRI-DM01	DBVU-E450W/HZRI-DM01		
Power Supply			380~415V/3N/50&60Hz		380~415V/3N/50&60Hz		380~415V/3N/50&60Hz		
Performance Data									
Cooling	Capacity	HP	8HP		10HP		12HP		
		kW	T1:25.2/T3:22.2		T1:27.9/T3:24.6		T1:33.3/T3:28.2		
		Btu/h	T1:86000/T3:76000		T1:95000/T3:84000		T1:114000/T3:96000		
	Rated current	RT	T1:7.2/T3:6.4		T1:8.0/T3:7.03		T1:9.5/T3:8.06		
		A	T1:10.9/T3:12.0		T1:12.2/T3:13.6		T1:14.7/T3:16.1		
		W/W	T1:3.71/T3:2.97		T1:3.66/T3:2.89		T1:3.63/T3:2.80		
Heating	Capacity	kW	27.4		31.5		37.5		
		Btu/h	93500		107500		128000		
		RT	7.8		9.0		10.7		
	Rated current	A	893		11.25		14.34		
		W/W	4.98		5.86		7.35		
		COP	5.50		5.38		5.10		
Max. input consumption	kW	13.4		14.3		14.8			
Max. Current	A	23.1		24.7		25.5			
Capacity adjustment range			50%~130%						
Compressor Data									
Compressor	Quantity	1							
	Type	Scroll Compressor							
	Brand	HITACHI							
Physical Data									
Refrigerant	Type	R410a							
	Volume	9		11		14			
	Throttle type	EXV							
Dimension (WxHxD)	Net	990x1740x840		1340x1740x840		1990x1740x840			
	Packing	1060x1900x910		1410x1900x910		2060x1900x910			
Weight	Net	228		230		275		480	
	Gross	240		242		293		498	
Outdoor sound level	dB(A)	58		60		60		61	
Max. operating range	Mpa	4.5							
Piping Data									
Pipe size	Liquid pipe	mm		Φ12.7		Φ15.88		Φ22.2	
	Gas pipe	mm		Φ22.2		Φ28.6		Φ35.0	
Max. pipe length	Total pipe length	m		1000		1000		1000	
	ODU to farthest IDU (Actual length)	m		200		200		200	
	ODU to farthest IDU (Equivalent length)	m		240		240		240	
	1st IDU distributor to farthest IDU	m		40/90		40/90		40/90	
Max. vertical length	Between ODU & IDU (ODU above IDU)	m		100		100		100	
	Between ODU & IDU (ODU below IDU)	m		110		110		110	
	Between IDUs	m		40		40		40	
	Between ODUs	m		0		0		0	
Operation Temperature Range									
Cooling	Outdoor side	℃		-5~55		-5~55		-5~55	
	Indoor side	℃		16~32		16~32		16~32	
Heating	Outdoor side	℃		-30~30		-30~30		-30~30	
	Indoor side	℃		16~32		16~32		16~32	

DBVU-E500W/HZRI-DM01	DBVU-E560W/HZRI-DM01	DBVU-E615W/HZRI-DM01	DBVU-E670W/HZRI-DS01	DBVU-E730W/HZRI-DS01	DBVU-E785W/HZRI-DS01	DBVU-E850W/HZRI-DS01	DBVU-E900W/HZRI-DS01		
380~415V/3N/50&60Hz		380~415V/3N/50&60Hz		380~415V/3N/50&60Hz		380~415V/3N/50&60Hz			
Performance Data									
Cooling	Capacity	18HP	20HP		22HP		24HP		
		kW	T1:50/T3:41.5		T1:56/T3:46		T1:67/T3:53.4		
		Btu/h	T1:170000/T3:142000		T1:192000/T3:156000		T1:228600/T3:182000		
	Rated current	RT	T1:14.3/T3:11.6		T1:16/T3:13.1		T1:17.6/T3:14		
		A	T1:22.9/T3:24.6		T1:25.7/T3:27.3		T1:28.2/T3:28.9		
		W/W	T1:3.49/T3:2.68		T1:3.47/T3:2.68		T1:3.47/T3:2.71		
Heating	Capacity	kW	56.0		63.0		69.0		
		Btu/h	191000		214900		235400		
		RT	16.0		18.0		19.7		
	Rated current	A	22.61		25.70		28.40		
		W/W	11.89		14.16		16.80		
		COP	4.71		4.45		4.11		
Max. input consumption	kW	22.0		24.4		25.0			
Max. Current	A	37.4		41.1		42.1			
Capacity adjustment range			50%~130%						
Compressor Data									
Compressor	Quantity	1			2				
	Type	Scroll Compressor			Scroll Compressor				
	Brand	HITACHI			HITACHI				
Physical Data									
Refrigerant	Type	R410a							
	Volume	15		16		20		23	
	Throttle type	EXV							
Dimension (WxHxD)	Net	1340x1740x840		1990x1740x840		2060x1900x910			
	Packing	1410x1900x910		2060x1900x910		2060x1900x910			
Weight	Net	285		290		297		388	
	Gross	303		308		315		406	
Outdoor sound level	dB(A)	62		63		62		63	
Max. operating range	Mpa	4.5							
Piping Data									
Pipe size	Liquid pipe	mm		Φ15.88		Φ22.2		Φ35.0	
	Gas pipe	mm		Φ28.6		Φ35.0		Φ42.4	
Max. pipe length	Total pipe length	m		1000		1000		1000	
	ODU to farthest IDU (Actual length)	m		200		200		200	
	ODU to farthest IDU (Equivalent length)	m		240		240		240	
	1st IDU distributor to farthest IDU	m		40/90		40/90		40/90	
Max. vertical length	Between ODU & IDU (ODU above IDU)	m		100		100		100	
	Between ODU & IDU (ODU below IDU)	m		110		110		110	
	Between IDUs	m		40		40		40	
	Between ODUs	m		0		0		0	
Operation Temperature Range									
Cooling	Outdoor side	℃		-5~55		-5~55		-5~55	
	Indoor side	℃		16~32		16~32		16~32	
Heating	Outdoor side	℃		-30~30		-30~30		-30~30	
	Indoor side	℃		16~32		16~32		16~32	

Note

- 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.
- The cooling conditions: indoor side 27°C (80.6°F) DB, 19°C (66°F) WB outdoor side 35°C (95°F) DB.
- The heating conditions: indoor side 20°C (68°F) DB, 15°C (44.6°F) WB outdoor side 7°C (42.8°F) DB.
- Sound level: measured at a point 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.
- The above data may be changed without notice for future improvement on quality and performance.

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

Model Name			DBVU-D252W/CZRI-DK01	DBVU-D280W/CZRI-DK01	DBVU-D335W/CZRI-DK01	DBVU-D400W/CZRI-DM01	DBVU-D450W/CZRI-DM01							
Power Supply			380~415V/3N/50&60Hz	380~415V/3N/50&60Hz	380~415V/3N/50&60Hz	380~415V/3N/50&60Hz	380~415V/3N/50&60Hz							
Performance Data			8HP		10HP		12HP		14HP		16HP			
Cooling	Capacity	HP	8HP		10HP		12HP		14HP		16HP			
		kW	T1:25.2/T3:21.5	T1:28/T3:23.8	T1:33.5/T3:28.4	T1:40/T3:34.1	T1:45/T3:38.3							
	Btu/h	T1:86000/T3:73106	T1:95500/T3:81229	T1:114000/T3:97184	T1:136500/T3:116041	T1:153500/T3:130546								
	RT	T1:7.2/T3:6.09	T1:8/T3:6.77	T1:9.5/T3:8.10	T1:11.4/T3:9.67	T1:12.8/T3:10.9								
Power input	kW	T1:5.86/T3:6.46	T1:6.79/T3:7.59	T1:9.18/T3:10.01	T1:10.50/T3:11.55	T1:12.20/T3:12.76								
EER	W/W	T1:4.3/T3:3.31	T1:4.12/T3:3.13	T1:3.65/T3:2.85	T1:3.8/T3:2.94	T1:3.68/T3:3.00								
Rated input consumption	kW	13.90	14.10	14.60	17.96	18.34								
Rated current	A	24.0	24.5	25.2	30.2	31.0								
Capacity adjustment range	50%~130%													
Compressor Data			DC /Twin-rotary											
DC Inverter compressor	Quantity	1												
	Type	DC /Twin-rotary												
	Brand	Mitsubishi												
	Frequency range	Hz	20~102	20~106	20~108	20~106	20~108							
Physical Data			R410a											
Refrigerant	Type	R410a												
	Volume	kg	10				12.5							
Dimension (DxHxW)	Net	mm	840x1740x990				840x1740x1340							
	Packing	mm	910x1900x1060				910x1900x1410							
Weight	Net	kg	210				278							
	Gross	kg	220				278							
Outdoor sound level	dB(A)	58			60			61						
Maximum operating pressure	MPa	4.5												
Piping & Wiring Data			Φ12.7										Φ15.9	
Pipe size	Liquid pipe	mm	Φ12.7				Φ15.9							
	Gas pipe	mm	Φ22.2				Φ28.6							
Max. pipe length	Total pipe length	m	1000											
	From OU to farthest IU (Actual length)	m	200											
	From OU to farthest IU (Equivalent length)	m	240											
	From 1st indoor distributor to farthest IU	m	90											
Max. Vertical length	Between OU & IU (OU above IU)	m	100											
	Between OU & IU (OU below IU)	m	110											
	Between IUs	m	40											
	Between Ous	m	0											
Operation Temperature Range			-15~55											
Cooling	Outdoor side	℃	-15~55											
	Indoor side	℃	16~32											

Note

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

Model Name			DBVU-D500W/CZRI-DM01	DBVU-D560W/CZRI-DM01	DBVU-D615W/CZRI-DM01	DBVU-D670/CZRI-DM01	DBVU-D730/CZRI-DS01	DBVU-D800/CZRI-DS01	DBVU-D850/CZRI-DS01									
Power Supply			380~415V/3N/50&60Hz	380~415V/3N/50&60Hz	380~415V/3N/50&60Hz	380~415V/3N/50&60Hz	380~415V/3N/50&60Hz	380~415V/3N/50&60Hz	380~415V/3N/50&60Hz									
Performance Data			18HP		20HP		22HP		24HP		26HP		28HP		30HP			
Cooling	Capacity	HP	18HP		20HP		22HP		24HP		26HP		28HP		30HP			
		kW	T1:50/T3:42.4	T1:56/T3:47.7	T1:61.5/T3:52.28	T1:67/T3:57	T1:73/T3:62	T1:78.5/T3:66.73	T1:85/T3:72.3									
	Btu/h	T1:170600/T3:145051	T1:191000/T3:162457	T1:209800/T3:178413	T1:228600/T3:194369	T1:249100/T3:211775	T1:267800/T3:227730	T1:290000/T3:246587										
	RT	T1:14.2/T3:12.08	T1:16/T3:13.53	T1:17.5/T3:14.86	T1:19.1/T3:16.19	T1:20.8/T3:17.64	T1:22.3/T3:18.97	T1:24.2/T3:20.54										
Power input	kW	T1:15.1/T3:16.37	T1:17.6/T3:18.52	T1:20.36/T3:21.09	T1:20.80/T3:21.60	T1:23.10/T3:23.92	T1:25.49/T3:26.19	T1:29.11/T3:30.07										
EER	W/W	T1:3.31/T3:2.60	T1:3.18/T3:2.57	T1:3.02/T3:2.48	T1:3.22/T3:2.64	T1:3.16/T3:2.59	T1:3.08/T3:2.55	T1:2.92/T3:2.40										
Rated input consumption	kW	18.74	25.90	27.80	29.50	32.00	32.00	36.50										
Rated current	A	32.0	46.6	47.5	51.0	53.00	53.00	63.00										
Capacity adjustment range	50%~130%																	
Compressor Data			DC /Twin-rotary															
DC Inverter compressor	Quantity	1													2			
	Type	DC /Twin-rotary																
	Brand	Mitsubishi																
	Frequency range	Hz	20~110	20~106											20~110			
Physical Data			R410a															
Refrigerant	Type	R410a																
	Volume	kg	12.5	16.5				18.0		20.0				25.0				
Dimension (DxHxW)	Net	mm	840x1740x1340				840x1740x1990				910x1900x2060							
	Packing	mm	910x1900x1410				910x1900x1410				910x1900x2060							
Weight	Net	kg	260	260				306		358				410				
	Gross	kg	278	316				324		376				428				
Outdoor sound level	dB(A)	62	63				65		66				67					
Maximum operating pressure	MPa	4.5																
Piping & Wiring Data			Φ15.9														Φ22.2	
Pipe size	Liquid pipe	mm	Φ15.9												Φ22.2			
	Gas pipe	mm	Φ28.6												Φ35			
Max. pipe length	Total pipe length	m	1000															
	From OU to farthest IU (Actual length)	m	200															
	From OU to farthest IU (Equivalent length)	m	240															
	From 1st indoor distributor to farthest IU	m	90															
Max. Vertical length	Between OU & IU (OU above IU)	m	100															
	Between OU & IU (OU below IU)	m	110															
	Between IUs	m	40															
	Between Ous	m	0															
Operation Temperature Range			-15~55															
Cooling	Outdoor side	℃	-15~55															
	Indoor side	℃	16~32															

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

Model Name			DBVU-D252W/CXRI-DK01	DBVU-D280W/CXRI-DK01	DBVU-D335W/CXRI-DK01	DBVU-D400W/CXRI-DM01
Power Supply			208~230V/3N/60Hz	208~230V/3N/60Hz	208~230V/3N/60Hz	208~230V/3N/60Hz
Performance Data			▼			
Cooling	Capacity	HP	8HP	10HP	12HP	14HP
		kW	25.2	28	33.5	40
		Btu/h	86000	95500	114000	136500
		RT	7.2	8	9.5	11.4
	Power input	kW	5.82	6.83	8.57	10.08
EER	W/W	4.33	4.10	3.91	3.97	
Rated input consumption		kW	13.50	14.10	14.20	16.90
Rated current		A	40.0	42.0	45.0	50.0
Capacity adjustment range			50%~130%			
Compressor Data			▼			
DC Inverter compressor	Quantity		1			
	Type		DC /Twin-rotary			
	Brand		Mitsubishi			
	Frequency range		rps 10~120			
Physical Data			▼			
Refrigerant	Type	R410a				
	Volume	kg	10		12	
Dimension (DxHxW)	Net	mm	840x1740x990		840x1740x1340	
	Packing	mm	910x1900x1060		910x1900x1410	
Weight	Net	kg	208		260	
	Gross	kg	218		278	
Outdoor sound level		dB(A)	58		60	
Maximum operating pressure		MPa	4.5			
Piping & Wiring Data			▼			
Pipe size	Liquid pipe	mm	Φ12.7		Φ15.9	
	Gas pipe	mm	Φ25.4		Φ31.8	
Max. pipe length	Total pipe length		m 1000			
	From OU to farthest IU (Actual length)		m 190			
	From OU to farthest IU (Equivalent length)		m 220			
	From 1st indoor distributor to farthest IU		m 90			
Max. Vertical length	Between OU & IU (OU above IU)		m 90			
	Between OU & IU (OU below IU)		m 110			
	Between IUs		m 30			
	Between Ous		m 0			
Operation Temperature Range			▼			
Cooling	Outdoor side		℃ -5~50			
	Indoor side		℃ 16~32			

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

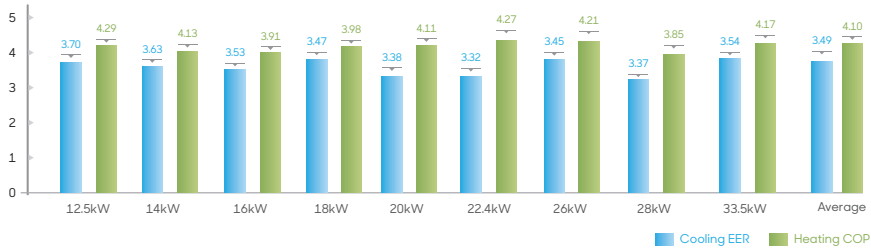
DBVU-D450W/CXRI-DM01	DBVU-D500W/CXRI-DM01	DBVU-D560W/CXRI-DM01	DBVU-D615W/CXRI-DM01	DBVU-D670/CXRI-DM01
208~230V/3N/60Hz	208~230V/3N/60Hz	208~230V/3N/60Hz	208~230V/3N/60Hz	208~230V/3N/60Hz
▼				
16HP	18HP	20HP	22HP	24HP
45	50.0	56.0	61.5	67.0
153500	170600	191000	209800	228600
12.8	14.2	16.0	17.5	19.0
11.75	13.37	15.73	18.25	19.59
3.83	3.74	3.56	3.37	3.42
17.30	24.00	26.50	27.00	27.00
53.0	70.0	78.0	80.0	80.0
50%~130%				
▼				
1		2		
DC /Twin-rotary				
Mitsubishi				
10~120				
▼				
R410a				
12	13	14	14	15
840x1740x1340				
910x1900x1410				
260	288	296	296	306
278	306	314	314	324
61	62	63	63	63
4.5				
▼				
Φ15.9				
Φ31.8				
1000				
190				
220				
90				
90				
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30				
0				
▼				
-5~50				
16~32				

Small Capacity Full DC Inverter VRF Unit

9 Models

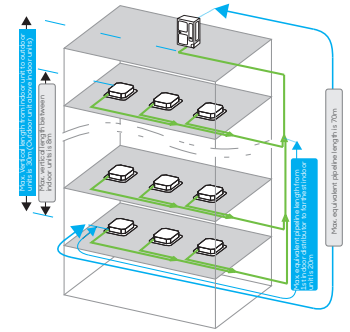
Capacity	12.5kW	14kW	16kW	18kW	20kW	22.4kW	26kW	28kW	33.5kW
Compressor	DC	DC	DC	DC	DC	DC	DC	DC	DC
Fan motor	DC+DC	DC+DC	DC+DC	DC+DC	DC+DC	DC+DC	DC+DC	DC+DC	DC+DC

EER&COP



Long Piping & Height Difference

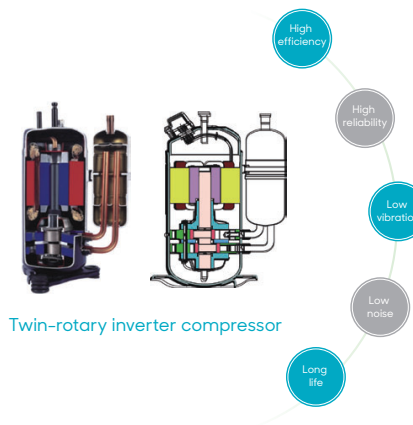
The total pipe length	100m(12.5-18kW),120m(22.4-33.5kW)
The longest pipe length	Actual length 60m Equivalent length 70m
Equivalent length from first indoor distributor to last indoor unit	20m
Height difference between indoor and outdoor unit:	Outdoor unit above+30m Outdoor unit below+20m
Height difference 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 alternative refrigerant which can protect environment.

Low Vibration

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

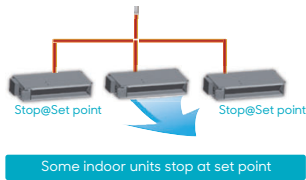
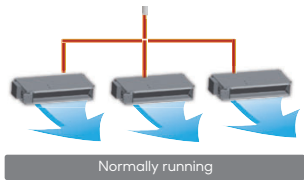
High Efficiency DC Motor



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

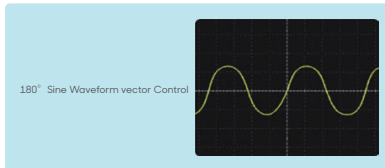
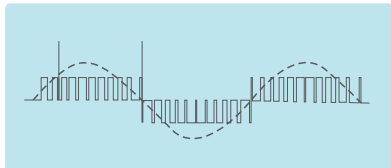
Fast Cooling And Heating

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

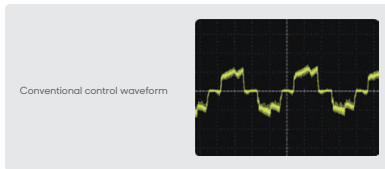
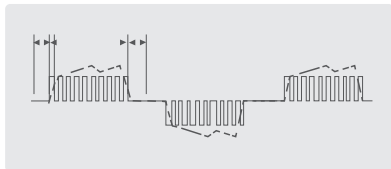


180° Sine Wave Control

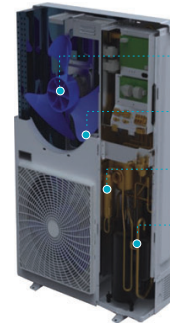
The perfect combination of 180° Sine wave rotor frequency drive control technology and excellent IPM inverters, reduces the reactive loss of motor-driven, increases motor efficiency by 12%.



Increase efficiency by 12%



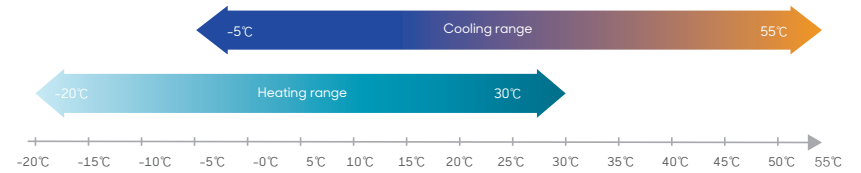
Silent Technology



- Brushless DC motor: Adopting permanent magnet rotor, low vibration and low noise.
- Forward-curve fan blade: Unique design to increase air flow, reducing the return air resistance, reducing vibration.
- Pipeline silencer: To reduce the refrigerant flow noise.
- Optimized design by CFD: To reduce refrigerant flow resistance and vibration.

Wide Outdoor Operation Range

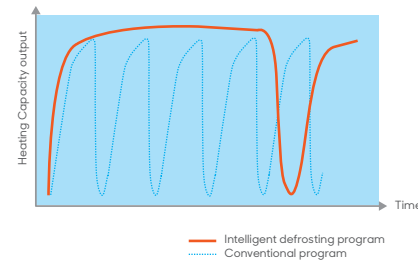
Because global warming is getting worse, Max. cooling operating temperature is designed up to 50°C. Heating operating temperature is down to -20°C. In the cold winter, system can heat the room continuously.



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

Strong Wind

Rotation correct
Can startup



Strong Wind

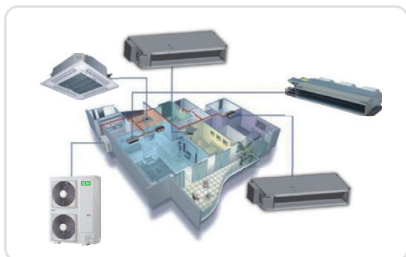
Rotation incorrect
Under protection
Can not start



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



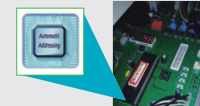
Refrigerant cooling technology for PCB

- 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.
- The outdoor unit has capability to run in max. 55°C ambient temperature.

NEW TECHNOLOGY

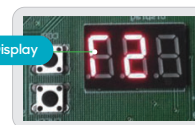
Automatically Addressing

- 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

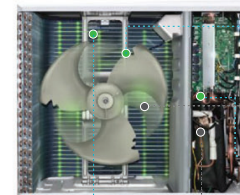


LED display on the PCB, it can show system's operation status and error codes.

Lower Noise

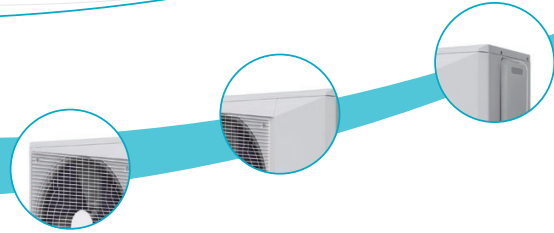
5 Major Technology Leads to Lower Noise

The Min. noise level is 54 dB(A)



- Streamline optimization for fan blade
- CFD simulation improvements to eliminate most of the turbulence
- Silent EXV
- Low noise compressor
- DC motor

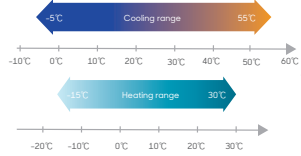
New Generation DBVU-Mini Small Capacity DC Inverter VRF



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

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



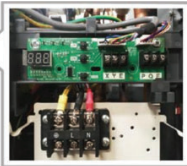
Wide Outdoor Operation Range

Due to global warming, cooling ambient temperature is designed up to 55°C.
Heating ambient temperature is down to -15°C. In cold weather, DBVU 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.



DBVU-Mini

Model name	Power type (V/N/Hz)	Cooling (T1/T3)						Heating			Refrigerant	Sound pressure level	Unit weight	Net weight	Gross weight	Gas pipe	Liquid pipe	Max. cooling power (kW)					
		Capacity		Power input		EER	Capacity	Power input	COP														
		kW	kBtu/h	kW	kBtu/h					kW									kBtu/h				
DBVU-D125W/HZRL-050D	380-415/3/50	T1:12.5/T3:10	T1:42/T3:33.6	T1:3.38/T3:3.48	T1:3.70/T3:2.87	14	47	3.26	4.29	3.45	R410a	56	1010	975	86.6	96.4	Ø15.88	6					
DBVU-D140W/HZRL-050D	380-415/3/50	T1:14/T3:11.48	T1:47.8/T3:39.2	T1:3.80/T3:4.04	T1:3.68/T3:2.84	16	54	3.97	4.03	3.8									1045	1035	86.6	96.4	7
DBVU-D160W/HZRL-050D	380-415/3/50	T1:16/T3:13.12	T1:54/T3:44.3	T1:4.53/T3:4.69	T1:3.53/T3:2.80	18	61	4.61	3.91	4.2									1145	1135	90.1	100	8
DBVU-D180W/HZRL-050D	380-415/3/50	T1:18/T3:14.76	T1:61/T3:50	T1:5.18/T3:5.37	T1:3.47/T3:2.75	20	68	5.02	3.98	5.3									1245	1235	94.7	104.4	9
DBVU-D200W/HZRL-080	380-415/3/50	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	5.35	4.11	6.1									1095	1085	112.7	126.8	10
DBVU-D224W/HZRL-080	380-415/3/50	T1:22.4/T3:19	T1:76.4/T3:64.8	T1:6.85/T3:7.05	T1:3.27/T3:2.69	24	81.8	5.62	4.27	5.3									1545	1535	112.7	126.8	10
DBVU-D260W/HZRL-100	380-415/3/50	T1:26/T3:21	T1:88.7/T3:70.9	T1:7.72/T3:7.95	T1:3.37/T3:2.72	28.5	97.2	6.77	4.21	6.1									1278	1268	112.7	126.8	12
DBVU-D280W/HZRL-100	380-415/3/50	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	8									1703	1693	154	174	15
DBVU-D335W/HZRL-100	380-415/3/50	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	4.17	8									1550	1540	154	174	18

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

DBVU-Mini

Model name	DBVU-DH080W/R/L	DBVU-DH100W/R/L	DBVU-DH125W/R/L	DBVU-DH140W/R/L	DBVU-DH160W/R/L	DBVU-DH180W/R/L	DBVU-DH200W/R/L																																																																																																																																																																																																																																														
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Power supply	220~240V/1N/50Hz	220~240V/1N/50Hz	220~240V/1N/50Hz	220~240V/1N/50Hz	220~240V/1N/50Hz	220~240V/1N/50Hz	220~240V/1N/50Hz																																																																																																																																																																																																																																														
Performance data	<table border="1"> <thead> <tr> <th>Operation condition</th> <th>T1</th> <th>T3</th> <th>T1</th> <th>T3</th> <th>T1</th> <th>T3</th> <th>T1</th> <th>T3</th> <th>T1</th> <th>T3</th> <th>T1</th> <th>T3</th> <th>T1</th> <th>T3</th> <th>T1</th> <th>T3</th> </tr> </thead> <tbody> <tr> <td>Capacity</td> <td>8</td> <td>7.2</td> <td>10</td> <td>9.0</td> <td>12.5</td> <td>11.3</td> <td>12.5</td> <td>11.3</td> <td>14</td> <td>12.7</td> <td>14</td> <td>12.7</td> <td>16</td> <td>14.5</td> <td>16</td> <td>14.5</td> </tr> <tr> <td>Btu/h</td> <td>27300</td> <td>24570</td> <td>34100</td> <td>30690</td> <td>42600</td> <td>38340</td> <td>42600</td> <td>38340</td> <td>47800</td> <td>43020</td> <td>47800</td> <td>43020</td> <td>54600</td> <td>49140</td> <td>54600</td> <td>49140</td> </tr> <tr> <td>Power input</td> <td>2.60</td> <td>2.81</td> <td>3.00</td> <td>3.25</td> <td>3.20</td> <td>3.46</td> <td>3.20</td> <td>3.46</td> <td>3.75</td> <td>4.06</td> <td>3.75</td> <td>4.06</td> <td>4.75</td> <td>5.14</td> <td>4.75</td> <td>5.14</td> </tr> <tr> <td>Rated current</td> <td>11.8</td> <td>14.2</td> <td>13.6</td> <td>14.4</td> <td>14.5</td> <td>17.5</td> <td>6.0</td> <td>7.2</td> <td>17.0</td> <td>20.5</td> <td>7.0</td> <td>8.4</td> <td>21.8</td> <td>25.96</td> <td>8.8</td> <td>10.5</td> </tr> <tr> <td>EER (T1/T3)</td> <td>3.08</td> <td>2.56</td> <td>3.33</td> <td>2.77</td> <td>3.91</td> <td>3.27</td> <td>3.91</td> <td>3.27</td> <td>3.73</td> <td>3.13</td> <td>3.73</td> <td>3.13</td> <td>3.37</td> <td>2.82</td> <td>3.37</td> <td>2.82</td> </tr> <tr> <td>W/W</td> <td>9</td> <td>11</td> <td>14</td> <td>14</td> <td>14</td> <td>16</td> <td>16</td> <td>17</td> <td>17</td> <td>17</td> <td>17</td> <td>17</td> <td>17</td> <td>17</td> <td>17</td> <td>17</td> </tr> <tr> <td>Capacity</td> <td>30700</td> <td>37500</td> <td>47800</td> <td>47780</td> <td>54600</td> <td>58000</td> <td>58020</td> <td>58020</td> <td>58000</td> <td>58000</td> <td>58000</td> <td>58000</td> <td>58000</td> <td>58000</td> <td>58000</td> <td>58000</td> </tr> <tr> <td>Btu/h</td> <td>10500</td> <td>12700</td> <td>16300</td> <td>16300</td> <td>18700</td> <td>19800</td> <td>19800</td> <td>19800</td> <td>19800</td> <td>19800</td> <td>19800</td> <td>19800</td> <td>19800</td> <td>19800</td> <td>19800</td> <td>19800</td> </tr> <tr> <td>Power input</td> <td>2.65</td> <td>3.1</td> <td>3.52</td> <td>3.52</td> <td>4</td> <td>4.4</td> <td>4.4</td> <td>4.4</td> <td>4.4</td> <td>4.4</td> <td>4.4</td> <td>4.4</td> <td>4.4</td> <td>4.4</td> <td>4.4</td> <td>4.4</td> </tr> <tr> <td>kW</td> <td>12</td> <td>14</td> <td>16.1</td> <td>16.1</td> <td>18.2</td> <td>20</td> <td>20</td> <td>20</td> <td>20</td> <td>20</td> <td>20</td> <td>20</td> <td>20</td> <td>20</td> <td>20</td> <td>20</td> </tr> <tr> <td>A</td> <td>3.40</td> <td>3.55</td> <td>3.98</td> <td>3.98</td> <td>4.00</td> <td>4.00</td> <td>4.00</td> <td>4.00</td> <td>4.00</td> <td>4.00</td> <td>4.00</td> <td>4.00</td> <td>4.00</td> <td>4.00</td> <td>4.00</td> <td>4.00</td> </tr> <tr> <td>W/W</td> <td>11.8</td> <td>14.2</td> <td>13.6</td> <td>14.4</td> <td>14.5</td> <td>17.5</td> <td>6.0</td> <td>7.2</td> <td>17.0</td> <td>20.5</td> <td>7.0</td> <td>8.4</td> <td>21.8</td> <td>25.96</td> <td>8.8</td> <td>10.5</td> </tr> <tr> <td>W/W</td> <td>3.08</td> <td>2.56</td> <td>3.33</td> <td>2.77</td> <td>3.91</td> <td>3.27</td> <td>3.91</td> <td>3.27</td> <td>3.73</td> <td>3.13</td> <td>3.73</td> <td>3.13</td> <td>3.37</td> <td>2.82</td> <td>3.37</td> <td>2.82</td> </tr> </tbody> </table>							Operation condition	T1	T3	T1	T3	T1	T3	T1	T3	T1	T3	T1	T3	T1	T3	T1	T3	Capacity	8	7.2	10	9.0	12.5	11.3	12.5	11.3	14	12.7	14	12.7	16	14.5	16	14.5	Btu/h	27300	24570	34100	30690	42600	38340	42600	38340	47800	43020	47800	43020	54600	49140	54600	49140	Power input	2.60	2.81	3.00	3.25	3.20	3.46	3.20	3.46	3.75	4.06	3.75	4.06	4.75	5.14	4.75	5.14	Rated current	11.8	14.2	13.6	14.4	14.5	17.5	6.0	7.2	17.0	20.5	7.0	8.4	21.8	25.96	8.8	10.5	EER (T1/T3)	3.08	2.56	3.33	2.77	3.91	3.27	3.91	3.27	3.73	3.13	3.73	3.13	3.37	2.82	3.37	2.82	W/W	9	11	14	14	14	16	16	17	17	17	17	17	17	17	17	17	Capacity	30700	37500	47800	47780	54600	58000	58020	58020	58000	58000	58000	58000	58000	58000	58000	58000	Btu/h	10500	12700	16300	16300	18700	19800	19800	19800	19800	19800	19800	19800	19800	19800	19800	19800	Power input	2.65	3.1	3.52	3.52	4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	kW	12	14	16.1	16.1	18.2	20	20	20	20	20	20	20	20	20	20	20	A	3.40	3.55	3.98	3.98	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	W/W	11.8	14.2	13.6	14.4	14.5	17.5	6.0	7.2	17.0	20.5	7.0	8.4	21.8	25.96	8.8	10.5	W/W	3.08	2.56	3.33	2.77	3.91	3.27	3.91	3.27	3.73	3.13	3.73	3.13	3.37	2.82	3.37	2.82
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W/W	9	11	14	14	14	16	16	17	17	17	17	17	17	17	17	17																																																																																																																																																																																																																																					
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kW	12	14	16.1	16.1	18.2	20	20	20	20	20	20	20	20	20	20	20																																																																																																																																																																																																																																					
A	3.40	3.55	3.98	3.98	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00																																																																																																																																																																																																																																					
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Note
1. The cooling conditions: indoor temp:27°C DB(80.6°F), 19°C WB(60°F) outdoor temp:35°C DB(95°F) equivalent pipe length:5m drop length:0m.
2. The heating conditions: indoor temp:20°C DB(68°F), 15°C WB(44.6°F) outdoor temp:7°C DB(42.8°F) equivalent pipe length:5m drop length:0m.
3. Sound level: Anechoic chamber conversion value, measured at point 1 min front of the unit at a height of 1.2m. During actual operation, these values are normally somewhat higher as a result of ambient conditions.
4. The above data may be changed without notice for future improvement on quality at performance.

INDOOR UNITS

Provide you with fresh air



Indoor Units line Up

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

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

1-way Cassette



Features

Accessories

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

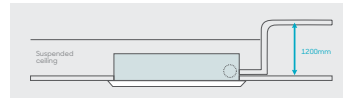
✂ Slim body, easy to install

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.

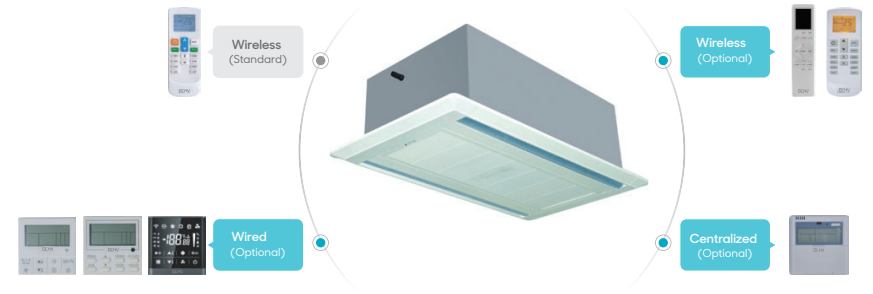


Specification

Model name	Power type	Capacity				Motor Input	Air flow	Sound Level	ESP	Dimension(WxHxD)				Body Weight		Connecting pipe				Standard controller		
		Cooling kW	Heating kW	kW	kW					Packing mm	Body mm	Panel packing mm	Panel mm	Net kg	Gross kg	Gas mm	Liquid mm	Drain mm				
DBVU-V22Q1/HR1-B	50Hz	2.2	7.5	2.5	8.5					1160	994	1090	1070									
DBVU-V28Q1/HR1-B	50Hz	2.8	9.5	3.2	10.9	0.04	520	306	32°36'	275	250	25	50	24/3.6	30/5.0	Φ9.53						
DBVU-V36Q1/HR1-B	50Hz	3.6	12.2	4.0	13.6					655	532	540	520									
DBVU-V45Q1/HR1-B	50Hz	4.5	15.3	5.0	17.0	0.05	610	360	36°41'	1160	994	1090	1070	26/3.6	32/5.0	Φ12.7	Φ6.35				Remote controller	
DBVU-V56Q1/HR1-B	50Hz	5.6	19.1	6.3	21.4	0.07	750	440	35°41'	1160	994	1090	1070	34/3.6	39/5.0	Φ15.9	Φ9.53					
DBVU-V71Q1/HR1-B	50Hz	7.1	24.2	8.0	27.2	0.09	950	550	38°45'	1470	1304	1390	1380									

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.

2-way Cassette



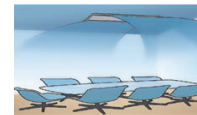
Features

Accessories

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

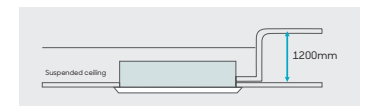
🌀 2 way air direction

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.

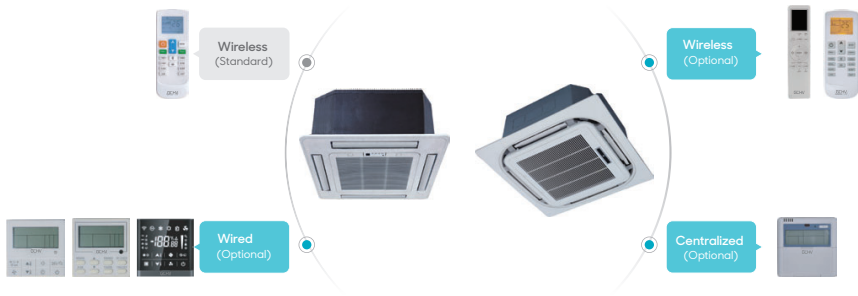


Specification

Model name	Power type	Capacity				Motor Input	Air flow	Sound Level	ESP	Dimension(WxHxD)				Body Weight		Connecting pipe				Standard controller		
		Cooling kW	Heating kW	kW	kW					Packing mm	Body mm	Panel packing mm	Panel mm	Net kg	Gross kg	Gas mm	Liquid mm	Drain mm				
DBVU-V45Q2/HR1-B	50Hz	4.5	15.3	5.0	17					1215	1068	1235	1205									
DBVU-V56Q2/HR1-B	50Hz	5.6	19.1	6.3	21.4	0.07	800	470	36°42'	365	310	70	50	26/3.6	32/5.0	Φ12.7	Φ6.35					
DBVU-V71Q2/HR1-B	50Hz	7.1	24.2	8.0	27.2					1455	1308	1475	1445									
DBVU-V80Q2/HR1-B	50Hz	8.0	27.2	9.0	30.7	0.10	1120	650	40°46'	365	310	70	50	34/3.6	39/5.0	Φ15.9	Φ9.53					

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.

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



Features

Accessories

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

4 way 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.



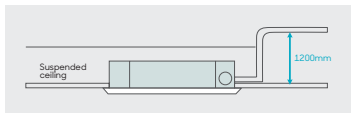
360° round panel is standard.



Built-in with drainage pump

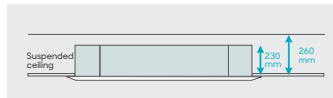
Built-in with low noise long life drainage pump, Pumping head is 1200mm, flexible for drainage pipe design.

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.



DC fan motor is optional

Specification

4-way Cassette Unit (Compact type)

Model name	Power type	Capacity				Motor input kW	Air flow M³/h	Sound Level DB(A)	ESP Pa	Dimension (WxHxD)				Body Weight		Connecting pipe			Standard controller
		Cooling kW	Heat/kWh	Heating kW	Heat/kWh					Packing mm	Body mm	Panel packing mm	Panel mm	Net kg	Gross kg	Gas mm	Liquid mm	Drain mm	
DBVU-V22G/HRL-C	50Hz	2.2	7.5	2.5	8.5	0.038	447	263	22*34	745 x 375 x 675	653 x 267 x 585	750 x 95 x 750	650 x 30 x 650	17.5	25	Φ9.53	Φ6.35	OD-825	Remote controller
DBVU-V22G/HNR1-C	60Hz																		
DBVU-V28G/HRL-C	50Hz	2.8	9.5	3.2	10.9	0.038	447	263	22*34	745 x 375 x 675	653 x 267 x 585	750 x 95 x 750	650 x 30 x 650	17.5	25	Φ9.53	Φ6.35	OD-825	Remote controller
DBVU-V28G/HNR1-C	60Hz																		
DBVU-V36G/HRL-C	50Hz	3.6	12.2	4.0	13.6	0.040	515	303	27*38	745 x 375 x 675	653 x 267 x 585	750 x 95 x 750	650 x 30 x 650	17.5	25	Φ9.53	Φ6.35	OD-825	Remote controller
DBVU-V36G/HNR1-C	60Hz																		
DBVU-V45G/HRL-C	50Hz	4.5	15.3	5.0	17	0.040	515	303	27*38	745 x 375 x 675	653 x 267 x 585	750 x 95 x 750	650 x 30 x 650	17.5	25	Φ9.53	Φ6.35	OD-825	Remote controller
DBVU-V45G/HNR1-C	60Hz																		

Round-flow Cassette

Model name	Power type	Capacity				Motor input kW	Air flow M³/h	Sound Level DB(A)	ESP Pa	Dimension (WxHxD)				Body Weight		Connecting pipe			Standard controller
		Cooling kW	Heat/kWh	Heating kW	Heat/kWh					Packing mm	Body mm	Panel packing mm	Panel mm	Net kg	Gross kg	Gas mm	Liquid mm	Drain mm	
DBVU-V56QR/HRL	50Hz	5.6	19.1	6.3	21.4	0.09	860	500	32*39	920 x 265 x 985	833 x 232 x 900	1030 x 105 x 1030	950 x 50 x 950	24	30	Φ12.7	Φ6.5		Remote controller
DBVU-V56QR/HNR1	60Hz																		
DBVU-V71QR/HRL	50Hz	7.1	24.2	8.0	27.2		1200	700	35*39	920 x 265 x 985	833 x 232 x 900	1030 x 105 x 1030	950 x 50 x 950	24	30	Φ12.7	Φ6.5		Remote controller
DBVU-V71QR/HNR1	60Hz																		
DBVU-V80QR/HRL	50Hz	8.0	27.2	8.8	30					920 x 265 x 985	833 x 232 x 900	1030 x 105 x 1030	950 x 50 x 950	24	30	Φ12.7	Φ6.5		Remote controller
DBVU-V80QR/HNR1	60Hz																		
DBVU-V90QR/HRL	50Hz	9.0	30.7	10	34.1	0.18				920 x 265 x 985	833 x 232 x 900	1030 x 105 x 1030	950 x 50 x 950	28.5	30	Φ12.7	Φ6.5		Remote controller
DBVU-V90QR/HNR1	60Hz																		
DBVU-V100QR/HRL	50Hz	10	34.1	11	37.5		1400	820	37*41	920 x 310 x 985	833 x 286 x 900	1030 x 105 x 1030	950 x 50 x 950	28.5	35	Φ15.9	Φ9.52		Remote controller
DBVU-V100QR/HNR1	60Hz																		
DBVU-V112QR/HRL	50Hz	11.2	38.2	12.5	42.6					920 x 310 x 985	833 x 286 x 900	1030 x 105 x 1030	950 x 50 x 950	28.5	35	Φ15.9	Φ9.52		Remote controller
DBVU-V112QR/HNR1	60Hz																		
DBVU-V125QR/HRL	50Hz	12.5	42.6	14	47.7					920 x 310 x 985	833 x 286 x 900	1030 x 105 x 1030	950 x 50 x 950	28.5	35	Φ15.9	Φ9.52		Remote controller
DBVU-V125QR/HNR1	60Hz																		
DBVU-V140QR/HRL	50Hz	14	47.7	15	51.1					920 x 310 x 985	833 x 286 x 900	1030 x 105 x 1030	950 x 50 x 950	28.5	35	Φ15.9	Φ9.52		Remote controller
DBVU-V140QR/HNR1	60Hz																		
DBVU-V160QR/HRL	50Hz	16	54.5	17	58	0.27	1800	1050	38*42	920 x 310 x 985	833 x 286 x 900	1030 x 105 x 1030	950 x 50 x 950	28.5	35	Φ15.9	Φ9.52		Remote controller
DBVU-V160QR/HNR1	60Hz																		

Notes:

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

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

✂ 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

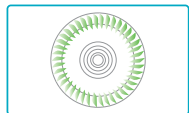
Big air flow low noise centrifugal fan blade with special air tunnel system, and the unique shock absorption measures, making this series ducted units' running noise is as low as 24 dB(A), let users to enjoy the comfort, sleep without any disturbance.



Rustled leaves



Silent reading room



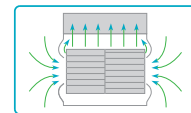
Special resin material fan wheel.



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



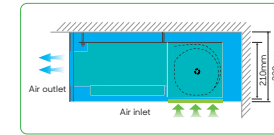
High efficiency low noise motor, motor and support frame with rubber ring isolation, can absorb vibration and reduce noise.



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

✂ Slim body, easy to install

Has slim body with 21.0mm height, it is specially suitable for low suspended ceiling rooms.



🌀 DC fan motor is optional

🔊 Integrated design of motor and motor bracket, lower noise



Specification

Model name	Power type	Capacity				Motor input	Air flow	Sound Level	ESP	Dimension(WxHxD)				Body Weight		Connecting pipe			Standard controller					
		Cooling kW	Cooling kbtu/h	Heating kW	Heating kbtu/h					Packing mm	Body mm	Panel packing mm	Panel mm	Net kg	Gross kg	Gas mm	Liquid mm	Drain mm						
DBVU-V22TA/HR1-C	50Hz	2.2	7.5	2.5	8.5	0.05	450	260	24*29	30	910 x 240 x 510	814 x 210 x 467	/	/	16	18.5	Ø9.53	/	/	/				
DBVU-V22TA/HNR1-C	60Hz														16	18.5								
DBVU-V28TA/HR1-C	50Hz	2.8	9.5	3.2	10.9	0.05	550	324	25*32		30	910 x 240 x 510	814 x 210 x 467	/	/	16.5	19	Ø6.35	Ø6.35	Ø6.35	Wired controller			
DBVU-V28TA/HNR1-C	60Hz															16.5	19							
DBVU-V36TA/HR1-C	50Hz	3.6	12.2	4	13.6	0.07	620	360	32*37			30	910 x 240 x 510	814 x 210 x 467	/	/	16.5	19	Ø12.7	Ø12.7	Ø12.7	Wired controller		
DBVU-V36TA/HNR1-C	60Hz																16.5	19						
DBVU-V45TA/HR1-C	50Hz	4.5	15.3	5	17	0.08	620	360	32*37				30	1110 x 240 x 510	1010 x 210 x 467	/	/	21	24	Ø12.7	Ø12.7	Ø12.7	Wired controller	
DBVU-V45TA/HNR1-C	60Hz																	21	24					
DBVU-V56TA/HR1-C	50Hz	5.6	19.1	6.3	21.4	0.09	800	520	28*38					30	1110 x 240 x 510	1010 x 210 x 467	/	/	25.5	28.5	Ø15.9	Ø9.53	Ø9.53	Wired controller
DBVU-V56TA/HNR1-C	60Hz																		25.5	28.5				
DBVU-V71TA/HR1-C	50Hz	7.1	24.2	8	27.2	0.11	1000	640	30*39	30					1310 x 240 x 510	1214 x 210 x 467	/	/	25.5	28.5	Ø15.9	Ø9.53	Ø9.53	Wired controller
DBVU-V71TA/HNR1-C	60Hz																		25.5	28.5				

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 1m 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 Static Pressure Ducted Unit

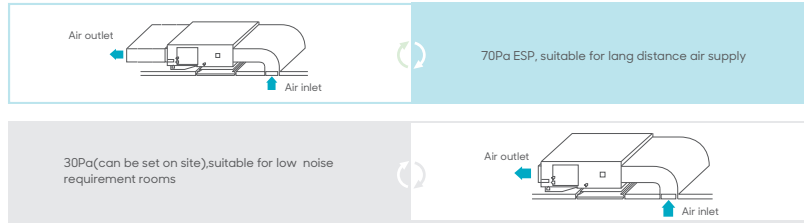


Features

Accessories

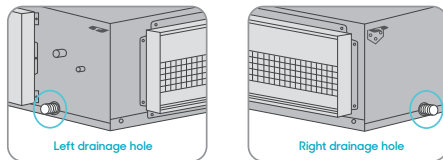
Plenum box	Air filter	EXV	Drain pump	AC motor	DC motor
Standard	Standard	Standard(built-in)	Optional	Standard	Optional

Standard ESP is 70Pa , 30Pa can be customized



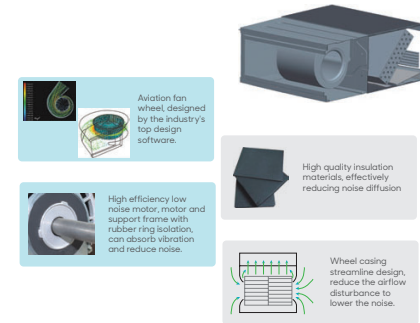
Convenient in drainage pipe install ation

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.



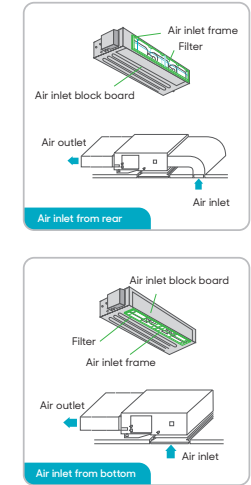
Whole unit low noise design, silent operation

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.



Two air return installation methods

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



DC fan motor is optional



Integrated design of motor and motor bracket, lower noise

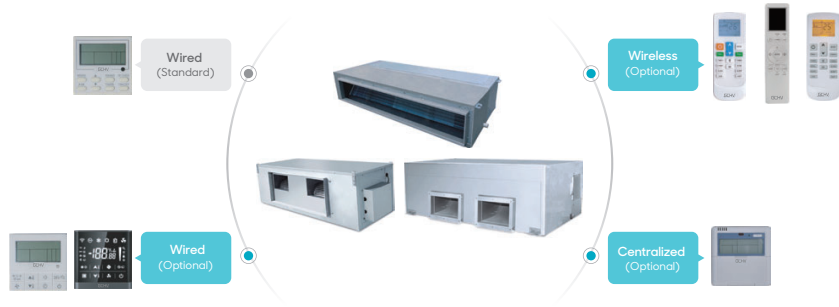
Specification

Model name	Power type	Capacity				Motor input	Air flow			Sound Level	ESP	Dimension(WxHxD)				Body Weight		Connecting pipe				Standard controller			
		Cooling kW	Heating kW	Cooling L/s	Heating L/s		M³/h	CFM	DB(A)			Packing mm	Body mm	Panel packing mm	Panel mm	Net kg	Gross kg	Gas mm	Liquid mm	Drain mm					
DBVU-V71TB/HR1-B	50Hz	7.1	24.2	8.0	27.2	0.30	1220	710	36*41	70	1255 x 260 x 720	1209 x 260 x 680					33	37					Wired controller		
DBVU-V71TB/HR1-B	60Hz																								
DBVU-V80TB/HR1-B	50Hz	8.0	27.2	9.0	30.7	0.34	1850	1080	38*43	70	1490 x 325 x 720	1445 x 260 x 680	/	/			46	50							
DBVU-V80TB/HR1-B	60Hz																								
DBVU-V90TB/HR1-B	50Hz	9.0	30.7	10.0	34.1	0.34	2000	1170	40*44	70	1490 x 325 x 720	1445 x 260 x 680	/	/			46	50							
DBVU-V90TB/HR1-B	60Hz																								
DBVU-V100TB/HR1-B	50Hz	10.0	34.1	11.0	37.5	0.34	2000	1170	40*44	70	1490 x 325 x 720	1445 x 260 x 680	/	/			46	50							
DBVU-V100TB/HR1-B	60Hz																								
DBVU-V120TB/HR1-B	50Hz	12.0	40.9	13.0	44.3	0.34	2000	1170	40*44	70	1490 x 325 x 720	1445 x 260 x 680	/	/			46	50							
DBVU-V120TB/HR1-B	60Hz																								
DBVU-V150TB/HR1-B	50Hz	15.0	51.1	17.0	58	0.34	2000	1170	40*44	70	1490 x 325 x 720	1445 x 260 x 680	/	/			46	50							
DBVU-V150TB/HR1-B	60Hz																								

Notes:

- Power supply: 220V/240V/1N for 50Hz; 200V/230V/1N for 60Hz
- Cooling test condition: indoor side 27°C, DB; 19°C WB; outdoor side 35°C, DB; Heating test condition: indoor side 20°C, DB; 15°C WB; outdoor side 7°C, DB
- Sound level: measured at a point 1 m in front of the unit at a height of 1.5m. During actual operation, these values are normally somewhat higher as a result of ambient conditions.
- The above data may be changed without notice for future improvement on quality and performance.

High Static Pressure Ducted Unit



Features

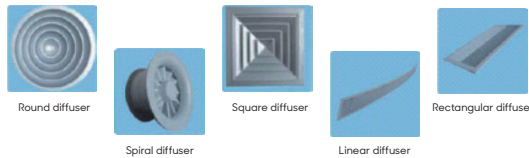
Accessories

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

Slim body, saving suspended ceiling spaces

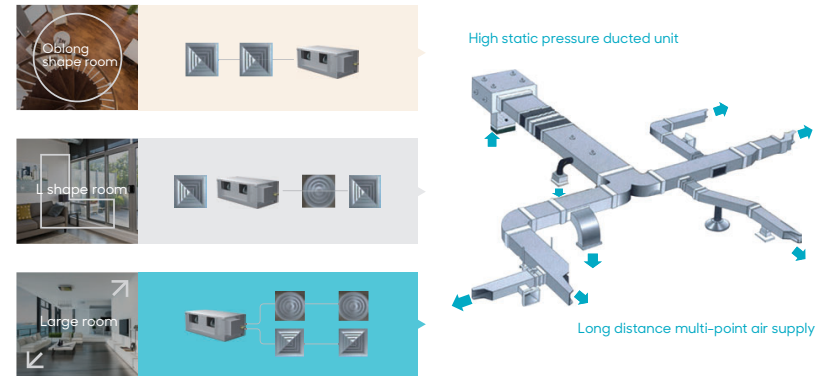


Can be used with various diffusers



High static pressure

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



Specification

Model name	Power type	Capacity				Motor input	Air flow			Sound Level	ESP	Dimension(WxHxD)		Body Weight		Connecting pipe			Standard controller					
		Cooling	Heating	kW	kW		M³/h	CFM	DB(A)			Packing	Body	Net	Gross	Gas	Liquid	Drain						
DBVU-V71TH/HNRL-B	50Hz	7.1	24.2	7.8	26.6		1500	880	40°42	150	1490 x 325 x 720	1445 x 260 x 680	46	50	Ø15.9	Ø9.53	ODØ25	Wired controller						
DBVU-V71TH/HNRL-B	60Hz																							
DBVU-V80TH/HNRL-B	50Hz	8.0	27.2	8.8	30																			
DBVU-V80TH/HNRL-B	60Hz																							
DBVU-V90TH/HNRL-B	50Hz	9.0	30.7	10.0	34.1																			
DBVU-V90TH/HNRL-B	60Hz																							
DBVU-V100TH/HNRL-B	50Hz	10.0	34.1	11.0	37.5																			
DBVU-V100TH/HNRL-B	60Hz																							
DBVU-V120TH/HNRL-B	50Hz	12.0	40.9	13.0	44.3	0.45	2300	1350	44°52															
DBVU-V120TH/HNRL-B	60Hz																							
DBVU-V150TH/HNRL-B	50Hz	15.0	51.1	17.0	58.0																			
DBVU-V150TH/HNRL-B	60Hz																							
DBVU-V200TH/HNRL-B	50Hz	20.0	68.2	22.0	75.0	1.2	4000	2350	45°53															
DBVU-V200TH/HNRL-B	60Hz																							
DBVU-D200TH/HRL-F30	50/60Hz	20.0	68.2	22.0	75.0	1.2	4000	2350	45°50															
DBVU-V250TH/HNRL-B	50Hz	25.0	85.3	27.5	93.8	1.2	4200	2470	45°54															
DBVU-V250TH/HNRL-B	60Hz																							
DBVU-D250TH/HRL-F30	50/60Hz	25.0	85.3	27.5	93.8	1.2	4400	2580	46°51															
DBVU-V280TH/HNRL-B	50Hz	28.0	95.5	30.8	105.2	1.2	4400	2580	45°55															
DBVU-V280TH/HNRL-B	60Hz																							
DBVU-D280TH/HRL-F30	50/60Hz	28.0	95.5	30.8	105.0	1.3	4800	2820	48°52															
DBVU-V450TH/HZRL-B	50Hz	45.0	153.5	50.0	170.6	1.6	6000	3520	60															
DBVU-V450TH/HZRL-B	60Hz																							
DBVU-V560TH/HNRL-B	50Hz	56.0	191.0	63.0	214.9	2.5	8000	4700	64															
DBVU-V560TH/HNRL-B	60Hz																							

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/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

Air supply smoothly

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

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

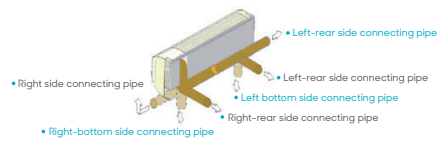
Simple, elegant, stylish, mirror design, suitable for all kinds of decoration style.

Flexible in installation

Refrigerant pipe can be connected from 3 directions.

Wide adjustable angle air supply

65° Wide angle air supply, louver angle can be fixed or set to auto-swing by controller.



Specification

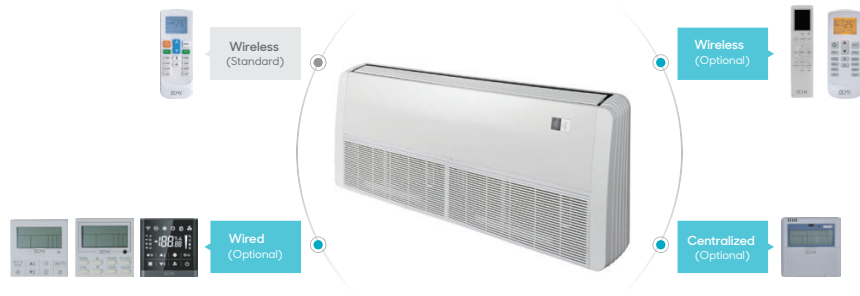
Model	DBVU-D22G/HR1-GSB		DBVU-D28G/HR1-GSB		DBVU-D36G/HR1-GSB		DBVU-D45G/HR1-GSC		DBVU-D56G/HR1-GSC		DBVU-D71G/HR1-GSC	
Power Supply	220-240V/1N/50&60Hz		220-240V/1N/50&60Hz		220-240V/1N/50&60Hz		220-240V/1N/50&60Hz		220-240V/1N/50&60Hz		220-240V/1N/50&60Hz	
Capacity	Cooling	kW	2.2	2.8	3.6	4.5	5.6	7.1				
	Heating	kW	2.5	3.2	4.0	5.0	6.3	8.0				
Power input	W		15	15	18	20	23	35				
Fan motor	Type		DC		DC		DC		DC		DC	
	Speed (Hi/Med/Low)	r/min	1000/900/870/850		1000/900/870/850		1100/1000/950/900		1050/950/900/850		1100/1000/950/900	
Air flow	m ³ /h		440/380/360/350		440/380/360/350		500/440/415/380		655/610/565/525		720/645/580/540	
Sound Pressure level		dB(A)	24~33		24~33		27~36		29~38		32~42	
			35~43		35~43		35~43		35~43		35~43	
Body dimension (WxHxD)	Net	mm	864x300x200		864x300x200		864x300x200		972x320x215		972x320x215	
	Packing	mm	945x375x290		945x375x290		945x375x290		1060x400x310		1060x400x310	
Body weight	Net/Gross	kg	9.5/12		9.5/12		11.5/14		11.5/14		11.5/14	
Refrigerant type			R410A		R410A		R410A		R410A		R410A	
Throttle type			EXV		EXV		EXV		EXV		EXV	
Liquid pipe/Gas pipe	mm		Φ6.35/Φ9.53		Φ6.35/Φ9.53		Φ6.35/Φ12.7		Φ6.35/Φ12.7		Φ9.52/Φ15.88	
Drainage water pipe (Outer diameter)	mm		Φ20		Φ20		Φ20		Φ20		Φ20	
Operation temperature	°C		16~32		16~32		16~32		16~32		16~32	

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

Wall Mounted Unit



Floor Ceiling Unit



Features

Accessories

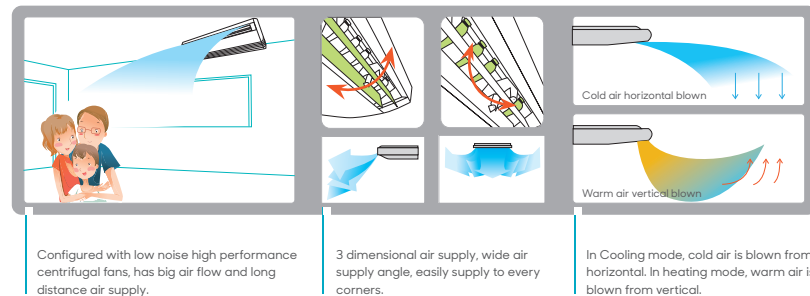
Plenum box	Air filter	EXV	Drain pump	AC motor	DC motor
/	Standard	Standard(built-in)	Optional	Standard	/

Suspended installation, saves valuable floor space

- The use of ark effect: need to take up valuable floor position.
- The use of a hanging type indoor machine effect: Due to the adoption of a suspended installation, without occupying the ground position, will be valuable floor space to save up to add a set of dining table.



Wide angle air supply

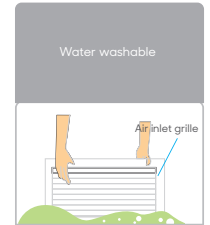
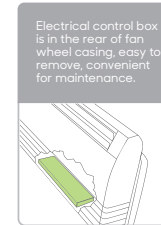
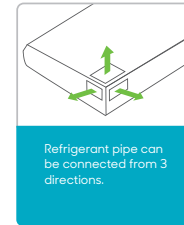


Configured with low noise high performance centrifugal fans, has big air flow and long distance air supply.

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

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

Easy for installation



Two kinds of grilles for selection



Specification

Model name	Power type	Capacity				Motor input	Air flow	Sound Level	Dimension(WxHxD)		Body Weight		Connecting pipe			Standard controller	
		Cooling	Heating						Packing	Body	Net	Gross	Gas	Liquid	Drain		
		kW	kBtu/h	kW	kBtu/h	kW	M ³ /h	CFM	dB(A)	mm	mm	kg	kg	mm	mm	mm	
DBVU-V36UA/HR1-LDBA	50Hz																Remote controller
DBVU-V36UA/HR1-LDBA	60Hz	3.6	12.3	4.0	13.7					1130	1050	26.5	31.5	Φ12.7	Φ6.35	DN20	
DBVU-V45UA/HR1-LDBA	50Hz					0.09	800	470	32*46	765	675						
DBVU-V45UA/HR1-LDBA	60Hz	4.5	15.3	5.0	17					x 330	x 235						
DBVU-V54UA/HR1-LDBA	50Hz																
DBVU-V54UA/HR1-LDBA	60Hz	5.6	19.1	6.3	21.4					1380	1300						
DBVU-V71UA/HR1-LDBB	50Hz					0.10	1200	706	41*48	765	675	32.5	37.5				
DBVU-V71UA/HR1-LDBB	60Hz	7.1	24.2	8.0	27.2					x 330	x 235						
DBVU-V80UA/HR1-LDBB	50Hz																
DBVU-V80UA/HR1-LDBB	60Hz	8.0	27.2	8.8	30												
DBVU-V90UA/HR1-LDBC	50Hz													Φ15.9	Φ9.52	DN20	
DBVU-V90UA/HR1-LDBC	60Hz	9.0	30.7	10.0	34.1												
DBVU-V112UA/HR1-LDBC	50Hz									1750	1670	41.0	47.0				
DBVU-V112UA/HR1-LDBC	60Hz	11.2	38.2	12.5	42.6					x 765	x 675						
DBVU-V140UA/HR1-LDBC	50Hz					0.20	2000	1177	38*53	x 330	x 235						
DBVU-V140UA/HR1-LDBC	60Hz	14.0	47.7	15	51.1												
DBVU-V160UA/HR1-LDBC	50Hz																
DBVU-V160UA/HR1-LDBC	60Hz	16.0	54.5	17	58												

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.

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

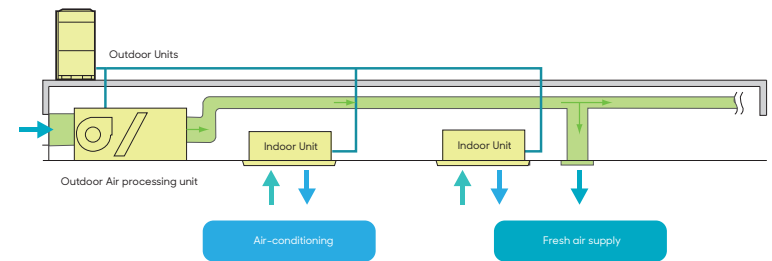
Both fresh air filtration and heating/cooling can be achieved in a single system. Indoor units and fresh air processing unit can be connected to the same refrigerant system, increase design flexibility and greatly reduce total system costs.

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:



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

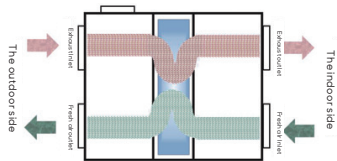
Model name	Power Type	Capacity				Motor input kW	Air flow M ³ /h	Sound Level dB(A)	ESP Pa	Dimension(WxHxD)			Body Weight		Connecting pipe			Standard controller		
		Cooling kW	Heating kW	Motor kW	CFM					Packing mm	Body mm	Panel packing mm	Panel mm	Net kg	Gross kg	Gas mm	Liquid mm		Drain mm	
DBVU-V140TF/HRL-B	50Hz	14.0	47.7	9.0	30.7	0.45	1400	820	42"48"	220	1245 x 445 x 655	1190 x 370 x 620			47	51	Φ15.9	Φ9.53		
DBVU-V140TF/HNRL-B	60Hz																			
DBVU-V224TF/HRL-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			ODΦ25	
DBVU-V224TF/HNRL-B	60Hz																			
DBVU-V280TF/HRL-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	Φ22.2	Φ12.7		Wired controller
DBVU-V280TF/HNRL-B	60Hz																			
DBVU-V450TF/HZBL-B	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				
DBVU-V450TF/HXR1-B	60Hz																			
DBVU-V560TF/HZBL-B	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	Φ28.6	Φ15.9	ODΦ32	
DBVU-V560TF/HXR1-B	60Hz																			

Notes:1.45kW & 56kW units' power supply are 380"415V/3N for 50Hz and 208"230V/3N for 60Hz, the others' power supply is 220"240V/1N for 50Hz and 208"230V/1N for 60Hz
2.Cooling test condition: Indoor and outdoor side 33°C DB, 28°C WB.Heating test condition: Indoor and outdoor side 0°CDB, -2.9°C WB
3.Sound level: measured at a point 1 min front of the unit at a height of 1.5m. During actual operation, these values are normally somewhat higher as a result of ambient conditions.
4.The above data may be changed without notice for future improvement on quality and performance.

Heat Recovery Ventilator



Features

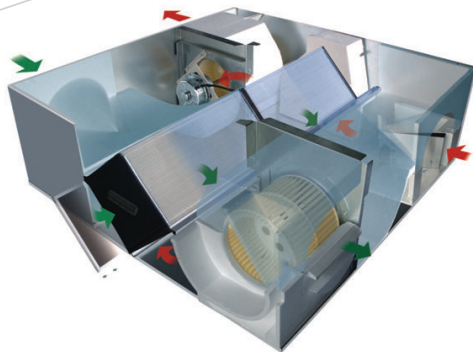


How it works

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

Suspended type specification

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

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

Heat Recovery Ventilator



Air Handler Unit



Features

Insulated cabinet

Galvanized steel with paint on all panels. Thermal insulator cover all inside panels to reduce heat and cooling losses and prevent condensed water accumulation.

Motor & Blower

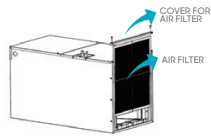
Direct drive motors, 3-speed, provide selections of air flow to meet desired applications. Φ10" big fan, powerful wind.

Coil

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

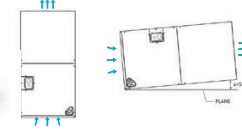
Filter optional

Detachable air filter for cleaning or renewal.



Multi-position installation

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



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

Specification

Model name	Power type	Capacity				Power input	Air flow	Sound Level	ESP	Dimension(WxHxD)		Body Weight		Connecting pipe			Standard Controller	
		Cooling kW	Cooling kJ/hr	Heating kW	Heating kJ/hr					Body mm	Packing mm	Net kg	Gross kg	Gas mm	Liquid mm	Drain mm		
DBVU-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
DBVU-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
DBVU-V160AH/HNR1	60Hz	16.0	54.4	18.0	61.2	517	2500	1470.6	57"60	50	970x550x500	1030x560x595	48	52	Ø15.88	Ø9.52	Ø20	Wired Controller

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

2. Cooling test condition: Indoor side 27°C DB, 19°C WB; outdoor side 35°C DB, 15°C WB. 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 1.5 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.



Controllers & Software

Wireless Remote Controllers



Wired Controllers



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

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.



Simple Centralized Controller



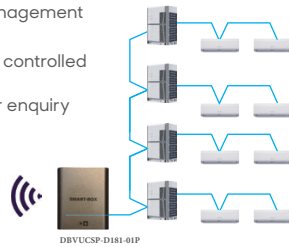
- Easy to install. Controller connects to outdoor units only.
- Able to install this controller after building decoration.
- 1 Controller can control max. 100 indoor units.
- Mode lock function, user can lock the running mode of indoor unit.
- Build in Modbus protocol.

Smart Manager

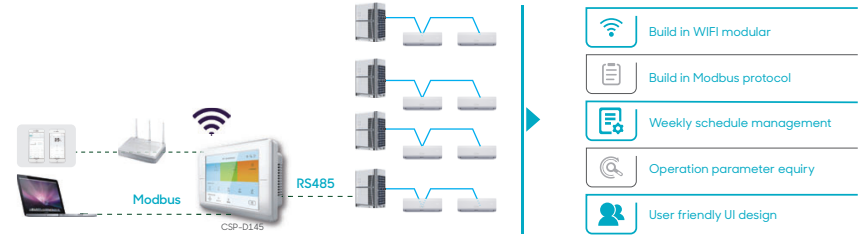
- Available on iOS and Android
- Remote control via cloud server



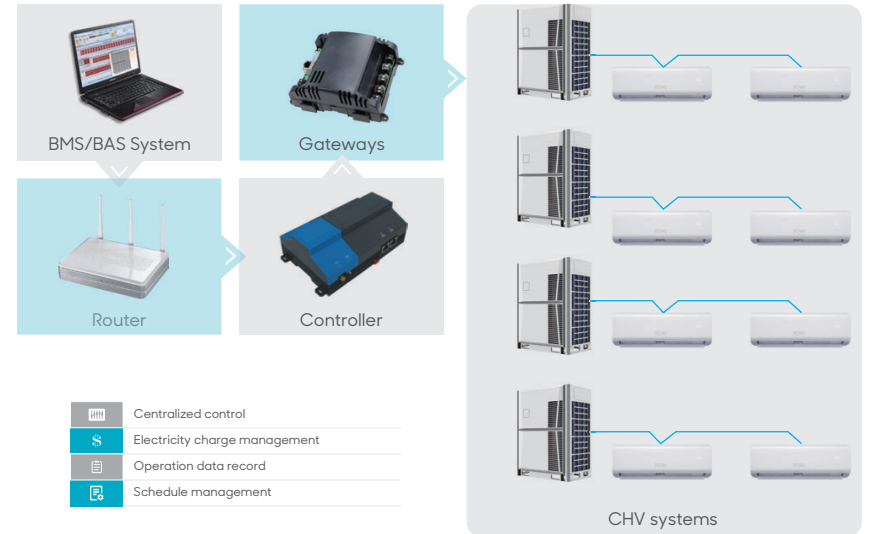
- Single unit controller or group control
- Weekly schedule management
- 64 indoor unit can be controlled
- Operation parameter enquiry



Touch Screen Centralized Controller

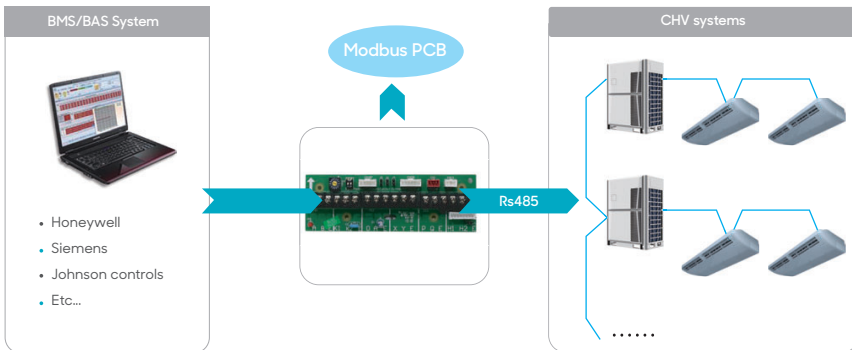


DBV-NET (Centralized Control System)



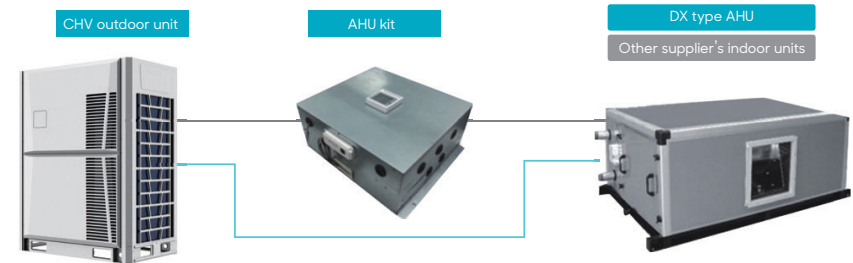
BMS Gateway

- 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



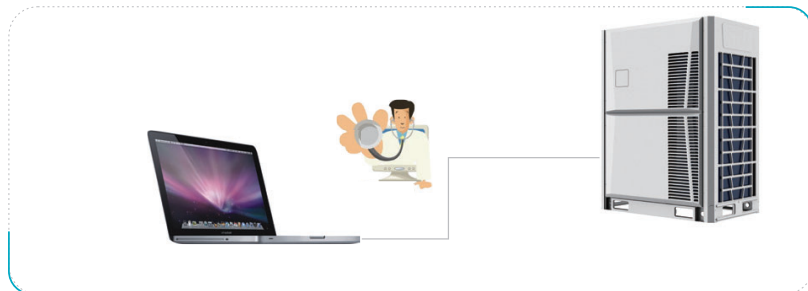
AHU Connection Kit

- GCHV AHU connection kit is an interface to allow 3rd party manufacturer's AHU connecting to GCHV VRF outdoor units.
- 4 basic modules: 5HP/10HP/20HP/30HP
- Can be combined into bigger capacity.



Doctor Kit Pro

- Fast to install, easy to use
- All indoor/outdoor units data can be enquired
- Using the computer to check the parameters



VRF Selection Software Pro

