GĩHV

DC INVERTER VRF SYSTEM Product Catalogue

Tl Condition

A 10



Giwee Company

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A Carrier Company

Note: The specifications of this catalog may change for further improvement on quality and performance without prior notice to allow us to incorporate the latest innovations for its customers. The information contained in this catalog is merely informative.

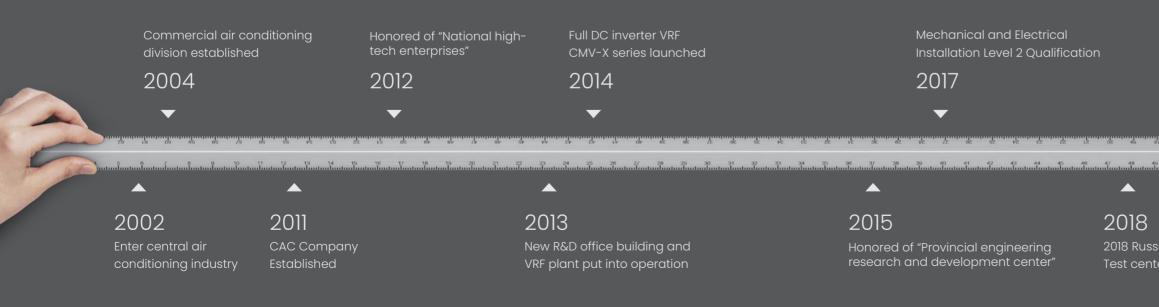






About Giwee Company

cold chain solutions.



Giwee is a global supplier with integrated advantages in R&D, production and sales in the HVAC field, brand name is GCHV. Giwee has been deeply involved in the air-conditioning field for more than ten years with a rich product lineup and excellent market competitiveness, mainly engaged in RAC, CAC, heat pump and ventilation systems. Giwee is a Carrier company, and Carrier is the leading global provider of innovative healthy, safe, sustainable and intelligent building and

Giwee covers an area of 167,000 square meters, with more than 120,000 square meters of plants and 17 modern first class production lines. Annual output exceeds 2.5 million sets, includes VRF, modular chiller, light commercial air conditioners ,air source heat pumps and other products. products are in great demand on 100 more countries and regions and has accomplished thousands of reference projects worldwide.

Giwee Company Established

2020





Test center certificated by CNAS

2018 Russia World Cup HVAC Supplier Giwee company becomes a subsidiary of Carrier Company



Production Capacity

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

Quality Superiority



Giwee has established a strict and scientific quality management system with supplier quality assurance, incoming quality control, process quality control and final quality control to ensure the highest quality of the products.

The industry-leading testing center has been certified by CNAS in 2018, With a full range of professional incoming inspection labs, enthalpy difference labs, EMC labs, 27 national accreditedlabs for testing and verification.

Certification

ISO9001 quality management system, ISO14001 environmental management system, OHSAS18001 occupational health and safety management system, QC080000 electronic and electrical components and products harmful substances process management system certification

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







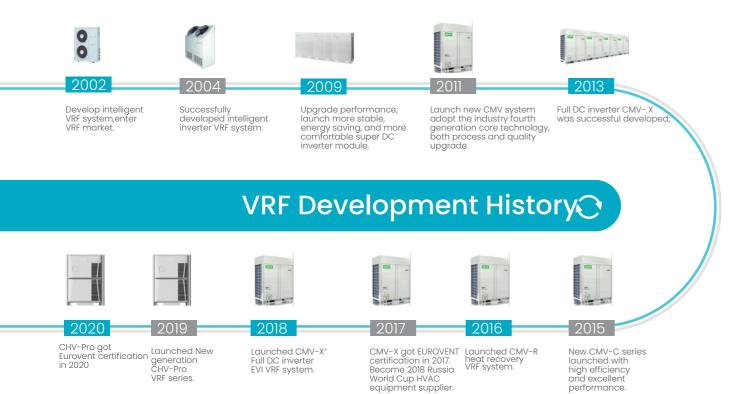


The R&D center of Giwee has more than 200 technical engineers, carry out technology collaboration and joint research with postdoctoral research workstations and Guangdong enterprise workstations, at the same time, introducing senior technical experts from Japan to join Giwee and served as senior technical consultants, Giwee pay great attention in R&D and invest 4.5% of annual income every year to develop new technology,by the continuous innovation, Giwee has established a solid development foundation and strength in performance, structure, electronic control, industrial design and other professional aspects.

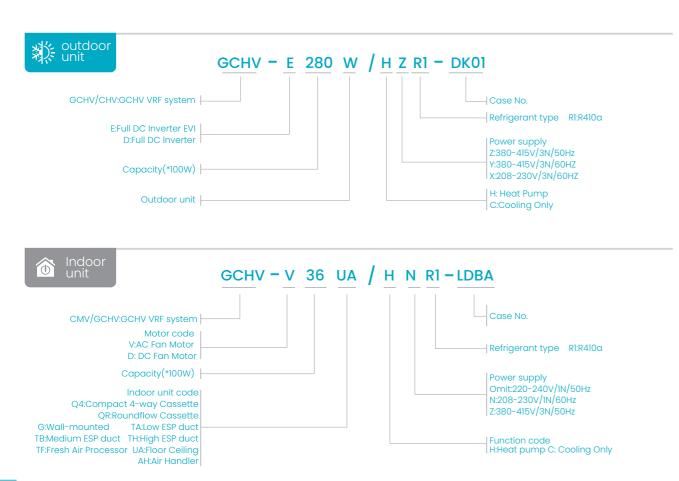
The test center covers an area of more than 6,000 square meters. It has a series of industry-leading professional laboratories. In 2010, it passed the consistency check of the National Energy Efficiency Label Management Center and obtained certificate, in 2018, the test center obtained CNAS national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

Directory

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

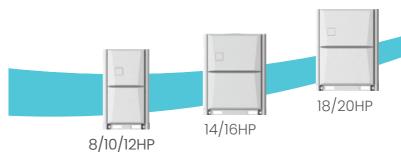


How To Read The Model Name 🖣



CHV Pro

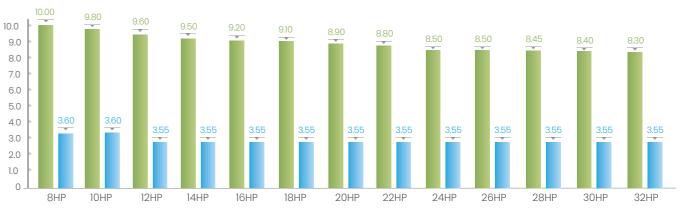
380~415V/3N/50Hz&60Hz 208~230V/3N/60Hz New Generation Full DC Inverter VRF System



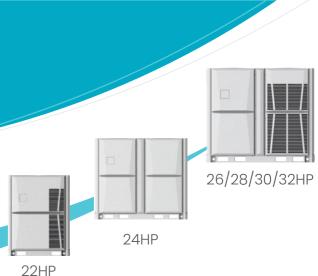
| Capacity | 8HP | 10HP | 12HP | 14HP | 16HP | 18HP | 20HP | 22HP | 24HP | 26HP | 28HP | 30HP | 32HP |
|------------|--------|------|--------|--------|--------|--------|--------|--------------|-------------------|--------------|--------|--------------|-------------------|
| | 25.2kW | 28kW | 33.5kW | 40kW | 45kW | 50kW | 56kW | 61.5kW | 67kW | 73kW | 78.5kW | 85kW | 90kW |
| V | | | V | \sim | \sim | \sim | \sim | \checkmark | $\mathbf{\nabla}$ | \checkmark | V | \checkmark | $\mathbf{\nabla}$ |
| Compressor | DC | DC | DC | DC | DC | DC | DC | DC | DC+DC | DC+DC | DC+DC | DC+DC | DC+DC |
| Fan motor | DC | DC | DC | DC | DC | DC+DC | DC+DC | DC+DC | DC+DC | DC+DC | DC+DC | DC+DC | DC+DC |







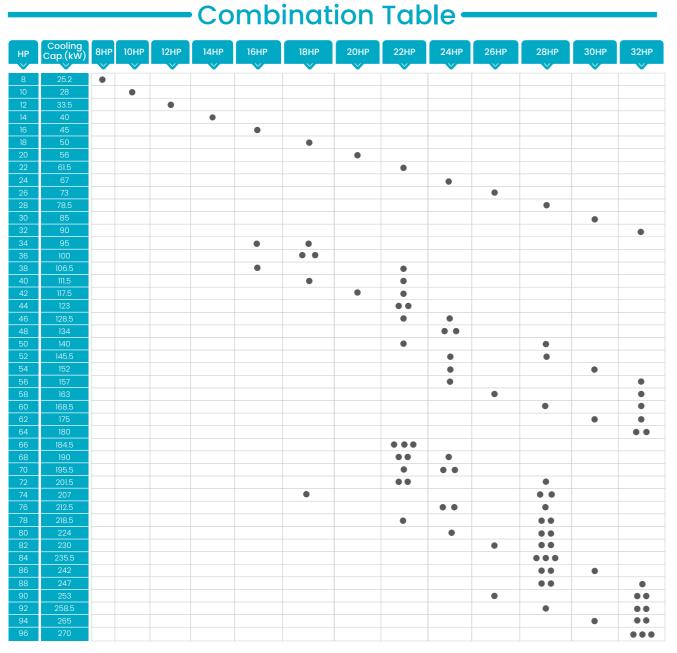
• National Standard (GB 21454-2008) • CHV Pro



13 Basic Modules

EER&COP

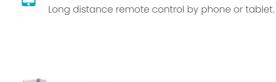
IPLV(C)



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



Refrigerant Piping



Long Distance Remote Control



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℃.



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



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

• Features

Malfunction Forecasting

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

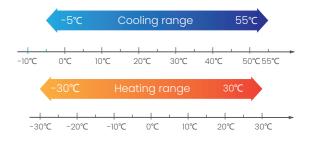




Wide Outdoor Operation Range

• Due to EVI technology, CHV PRO heating performance increased by 35% compare to conventional VRF system.

• Due to EVI technology, CHV PRO still has 85% of rated capacity even in -15°C.



*Based on GCHV internal test report

Refrigerant Status Detection

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

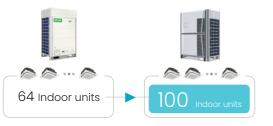


- Extremely insufficient Insufficient
- Slightly insufficient
- Normal
- Slightly excess
- Overmuch



More indoor units

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



Wireless communication between indoor unit and outdoor unit.



Electrical Lock Function(optional)

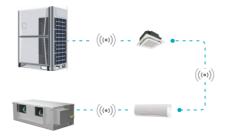


contract, electrical lock function can be used to stop VRF system, and end user can not start the system without

System can be unlock with password by authorized technician.

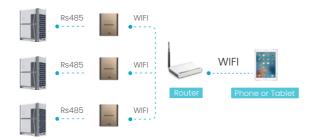
Online Diagnosis

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



((••)) Wireless Communication(optional)

Wireless communication between indoor units.



Service Window On Front Cover





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.







Max.3 outdoor units can be freely combined to become a larger unit. the maximum capacity of single system is 96HP.

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



Provide You With Fresh Air

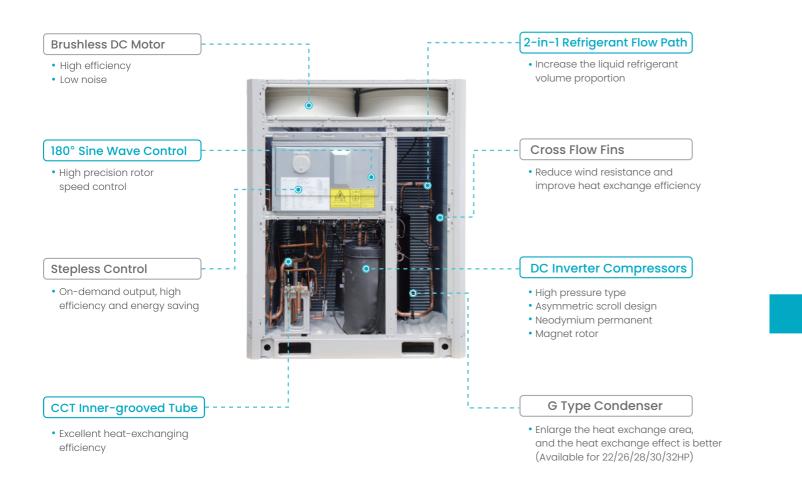


High Efficiency

Low carbon life advocate

Giwee always focus on low-carbon energy-saving technological research and development, to become a practitioner and advocate of low-carbon

Core Technologies Make High Efficiency



High Efficiency DC Inverter Compressor

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

oump extra oil to ther compressor

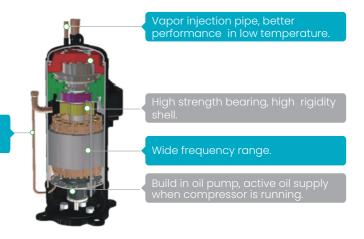
- High pressure chamber

Neodymium permanent magnet rotor

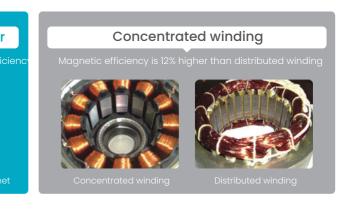
0 **High Efficiency DC Motor**

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

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



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

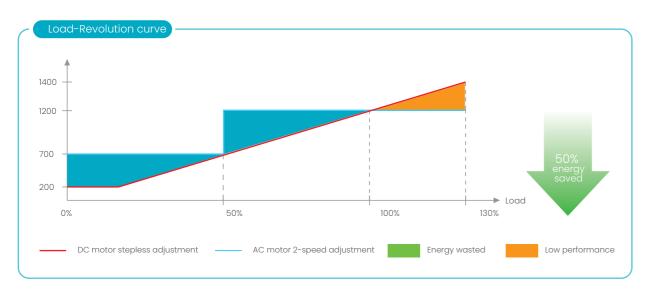






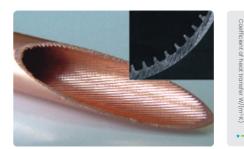
Stepless Control

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





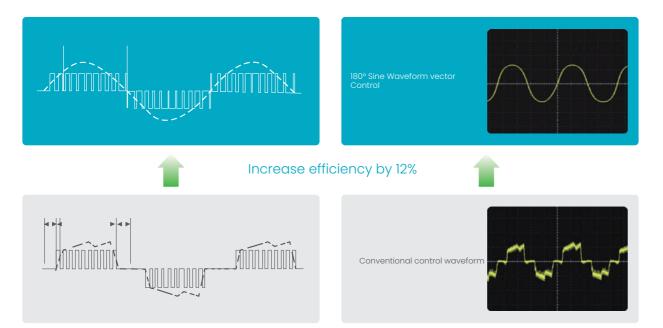
CCT (Continuous Cooling Transformation)inner-grooved copper tube has high thermometic conductivity. This inner-grooved fins break the refrigerant flow boundary layer to enhance refrigerant disturbance to increase heat-exchanging efficiency.

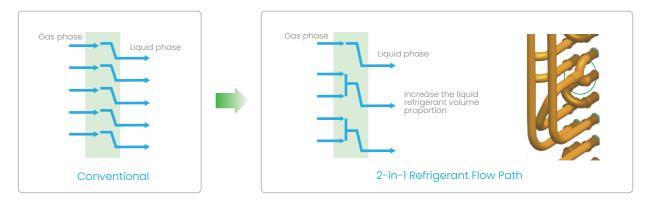


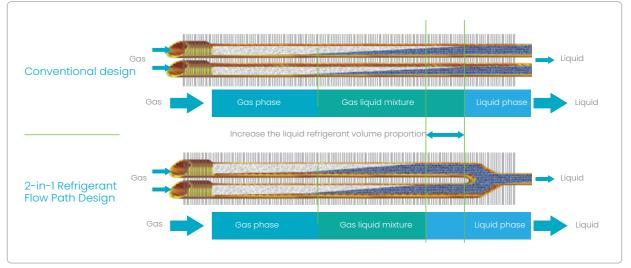
貅 2-in-1 Refrigerant Flow Path Design

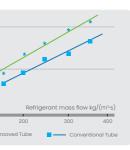


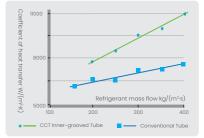
The perfect combination of 180° Sine waveform rotor frequency drive control technology and excellent IPM inverters, reduces the reactive loss of motor-driven, increases motor efficiency by 12%.





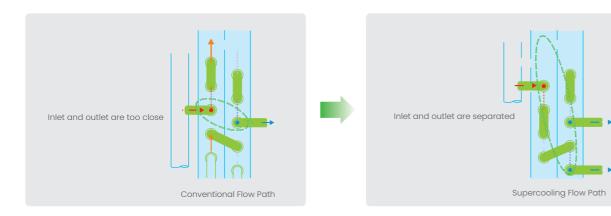






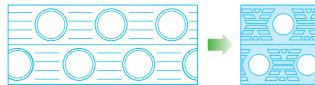
Supercooling Flow Path Design

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.



M **Cross Flow Fins**

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



Convention Fins

Cross Flow Fins

Cross Flow Fins 200 Conventional Fins 100 70

Face velocity(m/s)

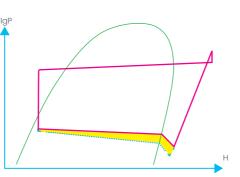
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Low Resistance Internal piping

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

New structure cycle

Original compressing cycle



Pressure drop decrease 5%

The PHE Economizer

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



Benefits For Users

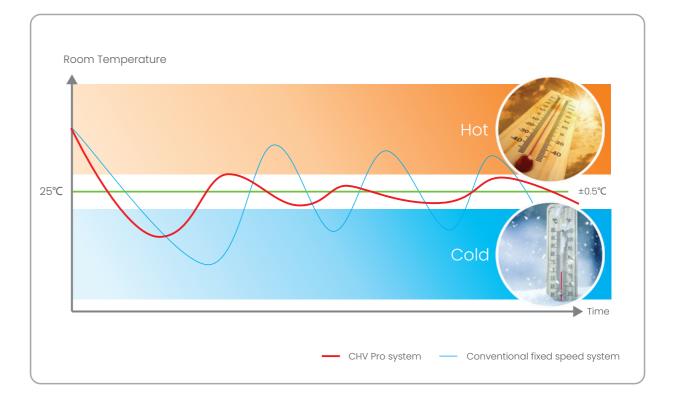
Livable environment creator

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,

P **Outstanding Comfort Ability**

refrigerant flow control logic.

outstanding comfort ability.



-+

PHE



• CHV Pro VRF system have excellent cooling&heating performance, thanks to the high efficiency DC fan motor, DC compressor and optimized

• Precisely room temperature control by adopting 2000 pulse EXV. Indoor temperature fluctuation can be maintain within 0.5°C, offers

Wide Operation Range

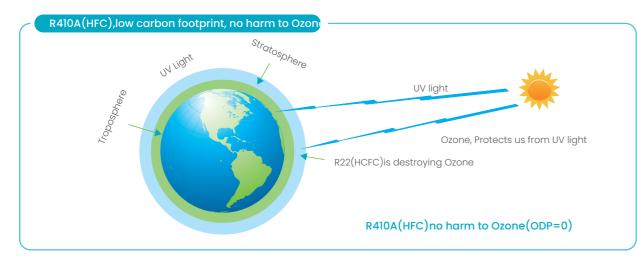
*

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



ક્રિ **Environment Friendly**

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



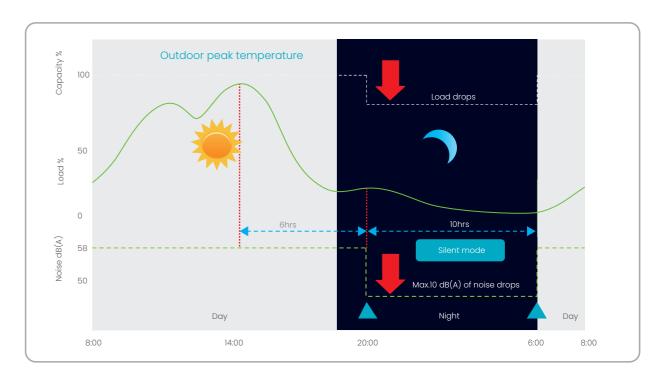
* **Snow-proof Function**

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



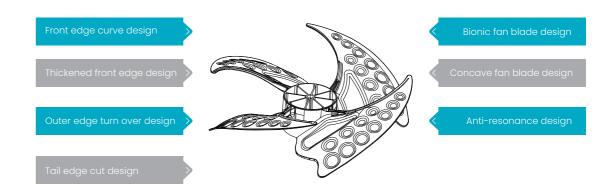
Silent Mode, Night Time Noise Control

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





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



3-stage Back Up Function

Module back up function.

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





Compressor back up function

When one compressor is failure, the

other one can keep running by simply

settings.



Fan motor back up function.

When one fan motor is failure,

the other one can keep running

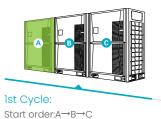
by simply settings.

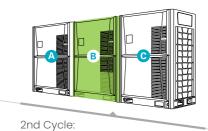
Remote ON/OFF Control Function

- 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.

78 A-E

All Outdoor Units Cycle Operation





Start order:B→C→A



Start order:C→A→B

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

IDU and ODU Positioning Function

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

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



Intelligent Defrosting Program

5 special defrosting mechanisms

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

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

Defrost Curve

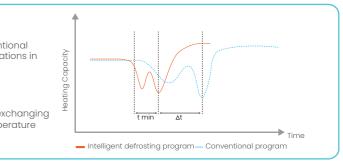
*

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

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



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



| • | | | | |
|---|---------------|--|---|---|
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | Failure chart | | | |
| | | | | |
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New Wired Controller

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





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• Air filter cleaning reminding function.

• Maximum ESP 80 Pa.

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

• 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.

LED

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





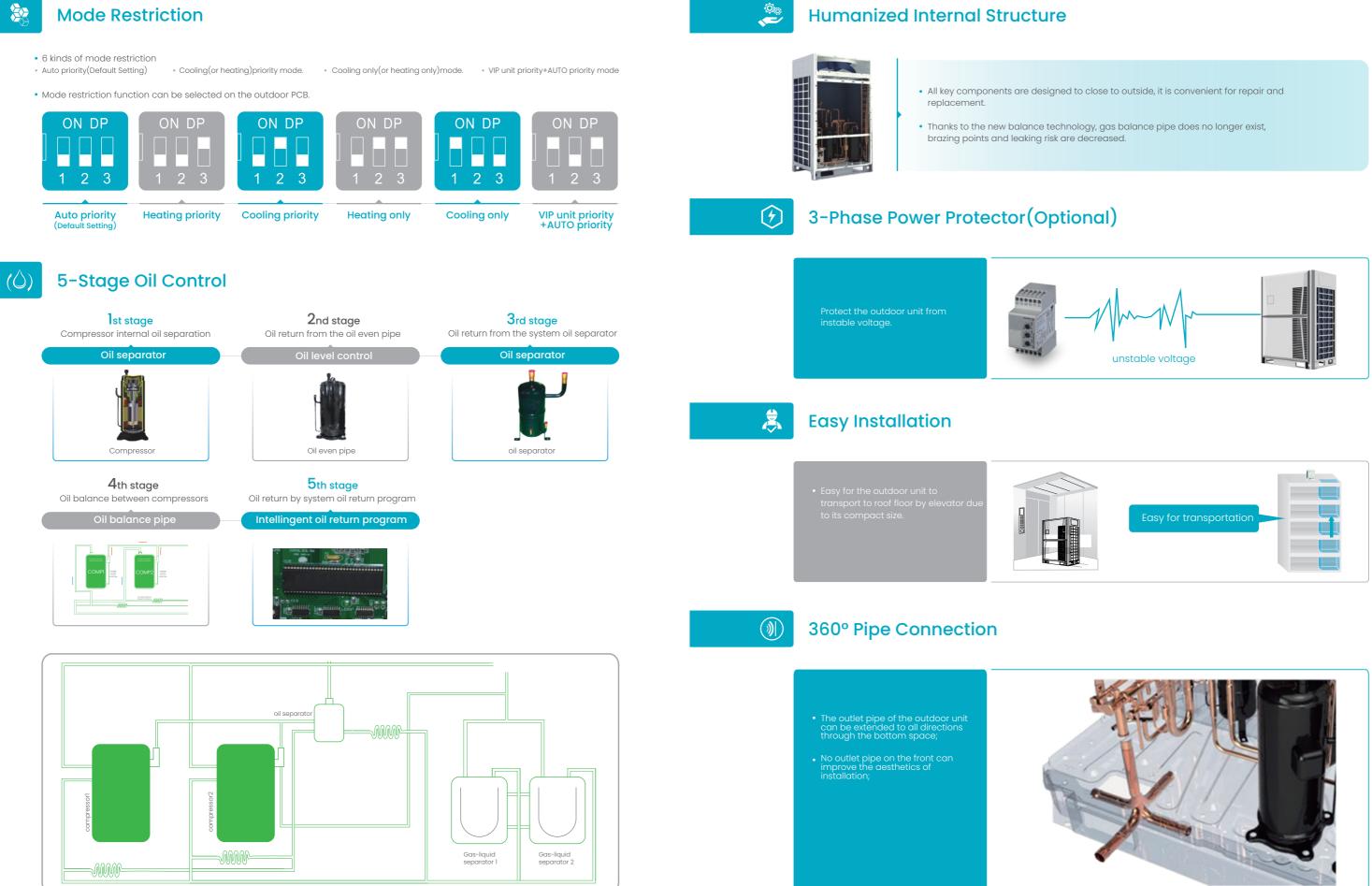
- 2 addressing methods:
- Automatically addressing: system will distribute address to indoor unit automatically. * Manually setting by wired controller or wireless remote controller.
- Addressing method can be selected easily by adjusting the switch on outdoor PCB.

(]

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

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

Error Code Check



Mode Restriction





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

| Mod | lel Name | | GCHV-E252W/HZRI-DK01 | GCHV-E280W/HZRI-DK01 | GCHV-E335W/HZRI-DK01 | GCHV-E400W/HZR1-DM01 | GCHV-E450W/HZRI-DM01 | |
|-------------------------|--|-------|----------------------|----------------------|----------------------|----------------------|----------------------|--|
| Pow | er 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 | • | | • | • | • | • | • | |
| Penormance Data | | LID | ~ | ~ | ~ | | 10110 | |
| | | HP | 8HP | 10HP | 12HP | 14HP | 16HP | |
| | Capacity | kW | 25.2 | 28.0 | 33.5 | 40.0 | 45.0 | |
| O a a lia a | | Btu/h | 86000 | 95500 | 114000 | 136500 | 153500 | |
| Cooling | | RT | 7.2 | 8.0 | 9.5 | 11.4 | 12.8 | |
| | Rated current | A | 9.04 | 11.30 | 14.51 | 18.10 | 21.60 | |
| | Power input | kW | 5.31 | 6.22 | 8.35 | 9.76 | 11.63 | |
| | EER | w/w | 4.75 | 4.50 | 4.01 | 4.10 | 3.87 | |
| | | kW | 27.4 | 31.5 | 37.5 | 45.0 | 50.0 | |
| | Capacity | Btu/h | 93500 | 107500 | 128000 | 153500 | 170600 | |
| | | RT | 7.8 | 9.0 | 10.7 | 12.8 | 14.2 | |
| Heating | Rated current | А | 8.93 | 11.25 | 14.34 | 18.00 | 20.25 | |
| | Power input | kW | 4.98 | 5.86 | 7.35 | 9.34 | 10.87 | |
| | COP | w/w | 5.50 | 5.38 | 5.10 | 4.82 | 4.60 | |
| Max. input consumpt | tion | kW | 13.4 | 14.3 | 14.8 | 18.3 | 18.8 | |
| Max. Current | | А | 23.1 | 24.7 | 25.5 | 30.8 | 31.7 | |
| Capacity adjustmen | t range | | | | 50%~130% | | | |
| Compressor Data | | | \sim | | | | | |
| | Quantity | | | | 1 | | | |
| Compressor | Туре | | | | Scroll Compressor | | | |
| | Brand | | | | HITACHI | | | |
| Physical Data | | | \sim | | | | | |
| | Туре | | | | R410a | | | |
| Refrigerant | Volume | Kg | ç | 9 | 11 | 14 | | |
| | Throttle type | | | | EXV | | | |
| Dimension | Net | mm | | 990x1740x840 | | 1340x1740 | 0x840 | |
| (WxHxD) | Packing | mm | | 1060x1900x910 | | 1410x1900 | 0x910 | |
| Weight | Net | Kg | 22 | 28 | 230 | 275 | 5 | |
| Wolght | Gross | Kg | 24 | 40 | 242 | 293 | 3 | |
| Outdoor sound level | | dB(A) | 5 | 8 | 60 | 60 | 61 | |
| Max. operating range | e | Мра | | | 4.5 | | | |
| Piping Data | | | | | | | | |
| Pipe size | Liquid pipe | mm | | Φ12.7 | | Φ1 | 5.88 | |
| 1100 3120 | Gas pipe | mm | | Φ22.2 | | Φ. | 28.6 | |
| | Total pipe length | m | | 1000 | | 10 | 000 | |
| | ODU to farthest IDU (Acual length) | m | | 200 | | 2 | 200 | |
| Max. pipe length | ODU to farthest IDU (Equivalent length) | | | 240 | | 2 | 240 | |
| | 1st IDU distributor to farthest IDU | m | | 40/90 | | 40 |)/90 | |
| | Between ODU & IDU (ODU above IDU) | m | | 100 | | 1 | 00 | |
| Max. vertical length | Between ODU & IDU (ODU below IDU) | m | | 110 | | | 110 | |
| | Between IDUs | m | | 40 | | | 40 | |
| | Between ODUs | m | | 0 | | | 0 | |
| Operation Temperat | ure Range | | \sim | | | | | |
| | Outdoor side | °C | | -5~55 | | -5 | ~55 | |
| Cooling | Indoor side | °C | | 16~32 | 16~32 | | | |
| | Outdoor side | °C | | -30~30 | -30~30 | | | |
| Heating | Indoor side | °C | | 16~32 | | 16 | ~32 | |
| | | | | | | | | |

| GCHV-E500W/HZRI-DM01 | GCHV-E560W/HZR1-DM01 | GCHV-E615W/HZRI-DM01 | GCHV-E670W/HZRI-DS01 | GCHV-E730W/HZRI-DS01 | GCHV-E785W/HZRI-DS01 | GCHV-E850W/HZRI-DS01 | GCHV-E900W/HZRI-DS01 |
|----------------------|----------------------|----------------------|----------------------|----------------------|--------------------------|--------------------------|----------------------|
| | | | | | | | |
| 380~415V/3N/50&60Hz | 380~415∨/3N/50&60Hz | 380~415V/3N/50&60Hz | 380~415V/3N/50&60Hz | 380~415V/3N/50&60Hz | 380~415V/3N/50&60Hz ∽ | 380~415∨/3N/50&60Hz ∽ | 380~415V/3N/50&60Hz |
| | | | | | | | |
| 18HP | 20HP | 22HP | 24HP | 26HP | 28HP | 30HP | 32HP |
| 50.0 | 56.0 | 61.5 | 67.0 | 73.0 | 78.5 | 85.0 | 90.0 |
| 170600 | 191000 | 209800 | 228600 | 249100 | 267800 | 290000 | 307100 |
| 14.2 | 16.0 | 17.5 | 19.1 | 20.8 | 22.3 | 24.2 | 25.6 |
| 23.29 | 26.10 | 29.06 | 29.09 | 32.59 | 36.13 | 40.36 | 44.73 |
| 12.22 | 14.66 | 16.62 | 16.71 | 18.18 | 20.03 | 22.37 | 24.79 |
| 4.09 | 3.82 | 3.70 | 4.01 | 4.02 | 3.92 | 3.80 | 3.63 |
| 56.0 | 63.0 | 69.0 | 75.0 | 81.5 | 87.5 | 95.0 | 100.0 |
| 191000 | 214900 | 235400 | 255900 | 278100 | 298600 | 324100 | 341200 |
| 16.0 | 18.0 | 19.7 | 21.3 | 23.2 | 24.88 | 27.0 | 28.4 |
| 22.61 | 25.70 | 28.40 | 28.65 | 30.28 | 33.38 | 38.52 | 43.9 |
| 11.89 | 14.16 | 16.80 | 14.72 | 16.78 | 18.50 | 21.35 | 24.33 |
| 4.71 | 4.45 | 4.11 | 5.10 | 4.86 | 4.73 | 4.45 | 4.11 |
| 22.0 | 24.4 | 25.0 | 26.2 | 30.1 | 30.7 | 35.8 | 37.7 |
| 37.4 | 41.1 | 42.1 | 43.2 | 50.8 | 51.8 | 60.4 | 63.6 |
| | | | 50%~ | | | | |
| | | | | | | | |
| | 1 | | | | 2 | | |
| | Scroll Compressor | | | | Scroll Compressor | | |
| | HITACHI | | | | HITACHI | | |
| | | | | | | | |
| | | | R4 | 410a | | | |
| 15 | | 16 | | 2 | 0 | | 23 |
| | EXV | | | | EXV | | |
| | 1340x1740x840 | | | | 1990x1740x840 | | |
| | 1410x1900x910 | | | | 2060x1900x910 | | |
| 285 | 290 | 297 | 388 | 4 | 33 | | 180 |
| 303 | 308 | 315 | 406 | 4 | 52 | | 198 |
| 62 | 6 | 3 | 62 | 6 | 33 | | 64 |
| | | | 4. | | | | |
| | | | | | | | |
| | | 5.88 | | | | 22.2 | |
| | Φ2 | 8.6 | | | | 35.0 | |
| | 10 | 00 | | | 10 | 000 | |
| | 20 | 00 | | | 2 | 00 | |
| | 24 | 40 | | | 2 | 40 | |
| | 40, | /90 | | | 40 | /90 | |
| | 10 | 00 | | |] | 00 | |
| | ן | 10 | | | 1 | 10 | |
| | Δ | 10 | | | | 40 | |
| | | 0 | | | | 0 | |
| | | ~ | | | | · · | |
| | -5- | | | | | ~55 | |
| | 16/ | -32 | | | 16 | ~32 | |
| | -30 | ~30 | | | -30 |)~30 | |
| | | -32 | | | | ~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 (60 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.



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

| Model Na | me | | GCHV-D252W/CZR1-DK01 | GCHV-D280W/CZR1-DK01 | GCHV-D335W/CZR1-DK01 | GCHV-D400W/CZR1-DM01 | GCHV-D450W/CZR1-DM01 |
|----------------------|---|-------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Power Sup | oply | | 380~415V/3N/50&60Hz | 380~415V/3N/50&60Hz | 380~415V/3N/50&60Hz | 380~415V/3N/50&60Hz | 380~415V/3N/50&60Hz |
| Performance | e Data | | ~ | ~ | ~ | ~ | ~ |
| | | HP | 8HP | 10HP | 12HP | 14HP | 16HP |
| | O erre er eite e | kW | 25.2 | 28 | 33.5 | 40 | 45 |
| O a alla a | Capacity | Btu/h | 86000 | 95500 | 114000 | 136500 | 153500 |
| Cooling | | RT | 7.2 | 8 | 9.5 | 11.4 | 12.8 |
| | Power input | kW | 5.86 | 6.79 | 9.18 | 10.50 | 12.20 |
| | EER | w/w | 4.30 | 4.12 | 3.65 | 3.80 | 3.68 |
| Rated. input o | consumption | kW | 13.90 | 14.10 | 14.60 | 17.96 | 18.34 |
| Rated. curren | t | А | 24.0 | 24.5 | 25.2 | 30.2 | 31.0 |
| Capacity adj | ustment range | | | | 50%~130% | | |
| Compresso | Data | | \sim | | | | \sim |
| | Quantity | | | | 1 | | |
| DC Inverter | Туре | | | | DC /Twin-rotary | | |
| compressor | Brand | | | | Mitsubishi | | |
| | Frequency range | Hz | | | 10~120 | | |
| Physical Dat | a | | \sim | | | | \sim |
| | Туре | | | | R410a | | |
| Refrigerant | Volume | Kg | | 10 | | 12. | 5 |
| Dimension | Net | mm | | 840x1740x990 | | 840x174 | 0x1340 |
| Dimension (DxHxW) | Packing | mm | | 910x1900x1060 | | 910x190 | 0x1410 |
| | Net | Kg | | 210 | | 26 | 0 |
| Weight | Gross | Kg | | 220 | | 27 | 8 |
| Outdoor sour | | dB(A) | | 58 | 6 | 60 | 61 |
| | erating pressure | MPa | | | 4.5 | | |
| Piping & Wi | U 1 | | \sim | | | | \sim |
| | Liquid pipe | mm | | Φ12.7 | | ΦÌ | 5.9 |
| Pipe size | Gas pipe | mm | | Φ22.2 | | | 8.6 |
| | Total pipe length | m | | Ψ.ΕΕ | 1000 | | |
| Max. | From OU to farthest IU(Actual | | | | 200 | | |
| pipe length | length) From OU to farthest IU (Equivalent length) | m | | | 240 | | |
| | From 1st indoor distributor to farthest IU | m | | | 90 | | |
| | Between OU & IU (OU above IU) | m | | | 100 | | |
| Max. Vertical | Between OU & IU (OU below IU) | m | | | 110 | | |
| length | Between IUs | m | | | 40 | | |
| | Between Ous | m | | | 0 | | |
| Operation | Temperature Rang | е | \sim | | | | \sim |
| | Outdoor side | °C | | | -5~55 | | |
| Cooling | Indoor side | °C | | | 16~32 | | |
| | | 0 | | | 10-32 | | |

| GCHV-D500W/CZRI-DM01 | I GCHV-D560W/CZRI-DM01 | GCHV-D615W/CZR1-DM01 | GCHV-D670/CZR1-DM01 | GCHV-D730/CZR1-DS01 | GCHV-D800/CZR1-DS01 | GCHV-D850/CZR1-DS01 |
|----------------------|------------------------|----------------------|---------------------|---------------------|---------------------|---------------------|
| 380~415V/3N/50&60Hz | 380~415V/3N/50&60Hz | 380~415V/3N/50&60Hz | 380~415V/3N/50&60Hz | 380~415V/3N/50&60Hz | 380~415V/3N/50&60Hz | 380~415V/3N/50&60Hz |
| ▼ ↓ | · · · | ~ | ~ | · · · | ~ | ~ |
| 18HP | 20HP | 22HP | 24HP | 26HP | 28HP | 30HP |
| 50.0 | 56.0 | 61.5 | 67.0 | 73.0 | 80.0 | 85.0 |
| 170600 | 191000 | 209800 | 228600 | 249100 | 273038 | 290000 |
| 14.2 | 16.0 | 17.5 | 19.1 | 20.8 | 22.75 | 24.2 |
| 15.10 | 17.60 | 20.36 | 20.81 | 23.10 | 25.97 | 29.11 |
| 3.31 | 3.18 | 3.02 | 3.22 | 3.16 | 3.08 | 2.92 |
| 18.74 | 25.90 | 27.80 | 29.50 | 32.00 | 32.00 | 36.50 |
| 32.0 | 46.6 | 47.5 | 51.0 | 53.00 | 53.00 | 63.00 |
| | | | 50%~130% | | | |
| | | | | | | |
| 1 | | | | 2 | | |
| | | | DC /Twin-rotary | | | |
| | | | Mitsubishi | | | |
| | | | 10~120 | | | |
| | | | | | | |
| | | | R410a | | | |
| 12.5 | 16 | 0.5 | 18.0 | 2 | 0.0 | 25.0 |
| | | 40x1340 | | | 840x1740x1990 | |
| | | 00x1410 | | | 910x1900x2060 | |
| 260 | | 98 | 306 | | 358 | 410 |
| 278 | | 16 | 324 | | | |
| | | | 65 | | 376 | 428 |
| 62 | 0 | 3 | | | 66 | 67 |
| | | | 4.5 | | | |
| | | ~ | ~ | | | ~ |
| | | Ø15 | | | | Φ22.2 |
| | | Φ28 | | | | Φ35 |
| | | | 1000 | | | |
| | | | 200 | | | |
| | | | 240 | | | |
| | | | 90 | | | |
| | | | 100 | | | |
| | | | | | | |
| | | | 110 | | | |
| | | | 40 | | | |
| | | | 0 | | | |
| | | | | | | |
| | | | -5~55 | | | |
| | | | 16~32 | | | |

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



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

| Model Na | me | | GCHV-D252W/CXR1-DK01 | GCHV-D280W/CXR1-DK01 | GGCHV-D335W/CXR1-DK01 | GCHV-D400W/CXR1-DM01 |
|----------------------|--|---------|----------------------|----------------------|-----------------------|----------------------|
| Power Sup | oply | | 208~230V/3N/60Hz | 208~230V/3N/60Hz | 208~230V/3N/60Hz | 208~230V/3N/60Hz |
| Performanc | e Data | | ▼ | ~ | ~ | ~ |
| | | HP | 8HP | 10HP | 12HP | 14HP |
| | | kW | 25.2 | 28.0 | 33.5 | 40.0 |
| | Capacity | Btu/h | 86000 | 95500 | 114000 | 136500 |
| Cooling | | RT | 7.2 | 8.0 | 9.5 | 11.4 |
| | Power input | kW | 5.82 | 6.81 | 9.05 | 10.47 |
| | EER | w/w | 4.33 | 4.11 | 3.70 | 3.82 |
| Rated. input o | | kW | 13.50 | 14.10 | 14.20 | 16.90 |
| Rated. currer | | А | 40.0 | 42.0 | 45.0 | 50.0 |
| Capacity adj | ustment range | | 1010 | 50%~ | | |
| Compresso | r Data | | \checkmark | | | |
| | Quantity | | | 1 | | |
| DC Inverter | Туре | | | DC /Twir | | |
| compressor | Brand | | | Mitsu | , | |
| | Frequency range | rps | | 10-1 | 20 | |
| Physical Dat | | L | \sim | | | |
| | Туре | | | R41 | 0a | |
| Refrigerant | Volume | Kg | | 8 | | 12 |
| Disconsion | Net | mm | | 840x1740x990 | | 840x1740x1340 |
| Dimension (DxHxW) | Packing | mm | | 910x1900x1060 | | 910x1900x1410 |
| | Net | | | 208 | | 260 |
| Weight | Gross | Kg | | | | |
| Out de services | | Kg | | 218 | | 278 |
| Outdoor sour | | dB(A) | 5 | 8 | | 60 |
| | erating pressure | MPa | | 4. | | |
| Piping & Wi | | 100.100 | \sim | ~ | | ~ |
| Pipe size | Liquid pipe | mm | | Φ12.7 | | Φ15.9 |
| | Gas pipe | mm | | Φ25.4 | | Ф31.8 |
| | Total pipe length | m | | 10 | 00 | |
| Max. | From OU to farthest IU(Actual length) | m | | 19 | 0 | |
| pipe length | From OU to farthest IU (Equivalent length) | m | | 22 | 20 | |
| | From 1st indoor distributor to farthest IU | m | | 9 | 0 | |
| | Between OU & IU (OU above IU) | m | | 9 | 0 | |
| Max. Vertical | Between OU & IU (OU below IU) | m | | 11 | 0 | |
| length | Between IUs | m | | 3 | 0 | |
| | Between Ous | m | | (|) | |
| Operation | Temperature Rang | | \sim | | | |
| | Outdoor side | C | | | -50 | |
| Cooling | Indoor side | C | | 16- | | |
| | | 0 | | 10* | ~~ ~ | |

| GCHV-D450W/CXR1-DM01 | GCHV-D500W/CXR1-DM01 | GCHV-D560W/CXRI-DM01 | GCHV-D615W/CXR1-DM01 | GCHV-D670/CXR1-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 |
| 45.0 | 50.0 | 56.0 | 61.5 | 67.0 |
| 153500 | 170600 | 191000 | 209800 | 228600 |
| 12.8 | 14.2 | 16.0 | 17.5 | 19.0 |
| 12.13 | 14.62 | 17.13 | 19.84 | 22.11 |
| 3.71 | 3.42 | 3.27 | 3.10 | 3.03 |
| 17.30 | 24.00 | 26.50 | 27.00 | 27.00 |
| 53.0 | 70.0 | 78.0 | 80.0 | 80.0 |
| | | 50%~130% | | |
| | | | | |
| 1 | | 2 | 2 | |
| | 1 | 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 |
| | 52 | 4.5 | | |
| | | ~ | | |
| | | Φ15.9 | | |
| | | Φ31.8 | | |
| | | 1000 | | |
| | | 1000 | | |
| | | 190 | | |
| | | 220 | | |
| | | 90 | | |
| | | 90 | | |
| | | 110 | | |
| | | 30 | | |
| | | 0 | | |
| | | U ~ | | |
| | | | | |
| | | -5~50 | | |
| | | 16~32 | | |

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

Refrigerant Piping -

| The total pipe length | 100m(12.5-22.4kW),120m(| 26- |
|---|--|-----|
| 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≤30n Outdoor unit below≤20n | |
| Height difference between indoor units | 8m | |

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



26/28/33.5kW



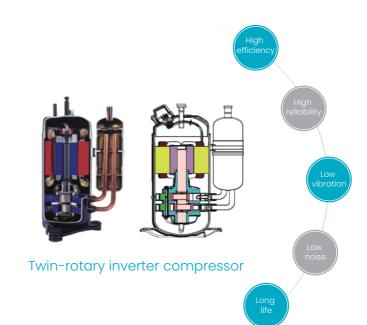
12.5/14/16/18kW

GCHV-Mini) Small Capacity Full DC Inverter VRF Unit

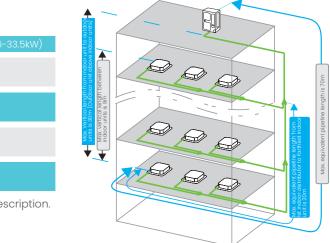
9 Models

| Capacity | 12.5kW | 14kW | 16kW | 18kW | 20kW | 22.4kW | 26kW | 28kW | 33.5kW |
|------------|--------|-------|-------|-------|-------|--------|-------|-------|--------|
| V | | | | | | \sim | | V | V |
| 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 |

High Efficiency DC Inverter Compressor Ċ,









Twin-rotary DC inverter compressor

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

High Efficiency, Low Noise

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

Environmental Protection

• Developed the compressor with alternativere frigerant which can protect environment.

Low Vibration

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



High Efficiency DC Motor



• High efficiency DC fan motor

- Low noise and high efficiency because of high-density

Space Saving Installation

• Multiple indoor units can be connected to 1 outdoor unit, and long piping connection is also possible.

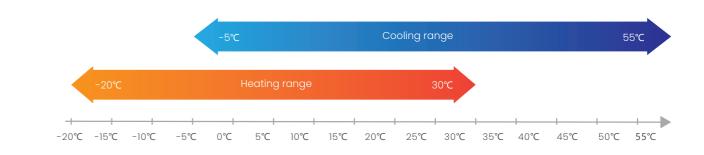
· Compare to one-drive-one type, the outdoor unit can be installed in various places to realize the space-saving installation.





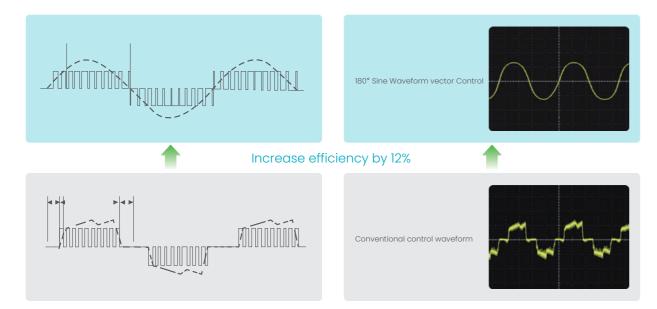
* Wide Outdoor Operation Range

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



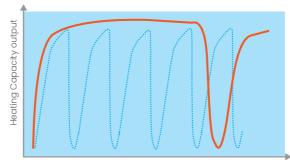
180 180° Sine Wave Control

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





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



Intelligent defrosting program

 \bigcirc

Silent Technology

Ø



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.

Time



Fan Reversal Protection





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. Autom

Automatically Addressing

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

Independent Display Board

Mode Restriction

• 7 kinds of mode restriction

- Auto priority(Default Setting)
 Cooling priority mode
- Cooling only mode
 Heating only mode
- Mode restriction function can be selected on the outdoor PCB.
- Heating priority mode.VIP unit priority+AUTO priority mode
 - First start mode
- ON DP
 ON DP

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Auto priority (Default Setting)

- Cooling priority Heating priority
- First start Cooling only





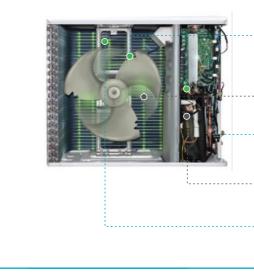
Lower Noise

Digital displa

5 Major Technology Leads to Lower Noise The Min. noise level is 54 dB(A)

G High Efficiency







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



X

CHV-mini Small Capacity DC Inverter VRF

GCHV-Mini-

| | | | | Cooling | | | Н | eating | | Comp | ressor | Мо | tor | Refrig | jerant | Sound pressure | Dime (WxH | | We | ight | Conne | ecting | Max Conn- |
|----------------------|--------------|------|--------|-------------|------|------|--------|-------------|------|-------------|---------|--------------|-----|--------|--------|----------------|----------------|----------------|-------|-------|--------|--------|------------------|
| Model name | Power type | Co | pacity | Power input | | Ca | pacity | Power input | СОР | Turne | | Turne | | | Volume | Level | Packing | Body | Net | Gross | Gas | Liquid | ected |
| | (v/n/Hz) | kW | Btu/h | kW | EER | kW | Btu/h | kW | COP | Type | Quy | Туре | Qty | Туре | kg | DB(A) | mm | mm | kg | kg | mm | mm | units quantit |
| • | • | × | • | • | • | × | • | | • | • | • | · · | | × . | | • | | • | × | × | ×. | × | |
| GCHV-D125W/HZR1-050D | 380-415/3/50 | 12.5 | 42000 | 3.38 | 3.70 | 14 | 47000 | 3.26 | 4.29 | | | | | | 3.45 | 56 | 1010 | 975 | 86.6 | 96.4 | | | 7 |
| GCHV-D140W/HZR1-050D | 380-415/3/50 | 14 | 47800 | 3.80 | 3.68 | 16 | 54000 | 3.97 | 4.03 | | | | | | 3.8 | 55 | x 1445 | x 1335 | 86.6 | 96.4 | Ф15.88 | | 8 |
| GCHV-D160W/HZR1-050D | 380-415/3/50 | 16 | 54000 | 4.53 | 3.53 | 18 | 61000 | 4.61 | 3.91 | | | | | | 3.8 | | x 415 | x 400 | 90.1 | 100 | | | 9 |
| GCHV-D180W/HZR1-050D | 380-415/3/50 | 18 | 61000 | 5.18 | 3.47 | 20 | 68000 | 5.02 | 3.98 | DC/ Twin | | DC/ | | | 4.2 | 58 | 410 | 400 | 94.7 | 104.4 | | Φ9.52 | 10 |
| GCHV-D200W/HZRI-080 | 380-415/3/50 | 20 | 68200 | 5.92 | 3.38 | 22 | 75000 | 5.35 | 4.11 | - | 1 | fan motor | 2 | R410a | 5.3 | 00 | 1095x 1545x | 1015x 1430x | 112.7 | 126.8 | Φ19.05 | | 11 |
| GCHV-D224W/HZRI-080 | 380-415/3/50 | 22.4 | 76400 | 6.75 | 3.32 | 24 | 81800 | 5.62 | 4.27 | rotary | | motor | | | 5.3 | | 485 | 450 | 112.7 | 126.8 | | | 13 |
| GCHV-D260W/HZR1-100 | 380-415/3/50 | 26 | 88700 | 7.54 | 3.45 | 28.5 | 97200 | 6.77 | 4.21 | | | | | | 6.1 | | 1278 | 1120 | 142 | 162 | | | 15 |
| GCHV-D280W/HZR1-100 | 380-415/3/50 | 28 | 95500 | 8.31 | 3.37 | 31.5 | 107500 | 8.18 | 3.85 | | | | | | 8.0 | 60 | 1703 | x 1549 | 154 | 174 | Φ22.2 | Φ12.7 | 16 |
| GCHV-D335W/HZR1-100 | 380-415/3/50 | 33.5 | 114300 | 9.46 | 3.54 | 37.5 | 128000 | 8.99 | 4.17 | | | | | | 8.0 | | 560 | x 528 | 154 | 174 | | ₩12.7 | 19 |

I.Cooling Operation Conditions: Indoor Air Inlet Temperature: 27°C DB / 19°C WB,TI: Outdoor Air Inlet Temperature: 35°C DB lote

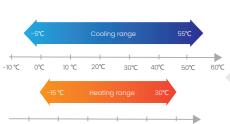
2. Heating Operation Conditions: Indoor Air Inlet Temperature: 7°C DB / 6°C WB $\,$

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



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





-20°C -10 °C 0°C 10 °C 20°C 30°C

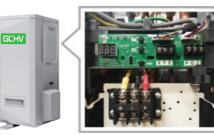
appearance.

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



Wide Outdoor Operation Range

Heating ambient temperature is down to -15 °C, in cold weather, • CHV Mini VRF has capability to heat the room continuously.



*

| | | | CHV-DH080W/R1 | CHV-DH100W/R1 | CHV-DH125W/R1 | GCHV-D125W/HZR1-D01 | CHV-DH140W/R1 | GCHV-D140W/HZR1-F01 | CHV-DH160W/R1 | GCHV-D160W/HZR1-F01 |
|---------------------------------------|----------------|-------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|
| Model | name | | CHV-DH080W/NR1 | CHV-DH100W/NR1 | CHV-DH125W/NR1 | GCHV-D125W/HYR1-D01 | CHV-DH140W/NR1 | GCHV-D140W/HYR1-F01 | CHV-DH160W/NR1 | GCHV-D160W/HYR1-F01 |
| | | | 220~240V/1N/50Hz | 220~240V/1N/50Hz | 220~240V/1N/50Hz | 380~415V/3N/50Hz | 220~240V/1N/50Hz | 380~415V/3N/50Hz | 220~240V/1N/50Hz | 380~415V/3N/50Hz |
| Power | supply | | 208~230V/1N/60Hz | 208~230V/1N/60Hz | 208~230V/1N/60Hz | 380~415V/3N/60Hz | 208~230V/1N/60Hz | 380~415V/3N/60Hz | 208~230V/1N/60Hz | 380~415V/3N/60Hz |
| | \checkmark | | ~ | \sim | \sim | | \sim | \sim | \sim | \checkmark |
| Performa | ince data | | \sim | | | | | | | \sim |
| | | kW | 8 | 10 | 12.5 | 12.5 | 14 | 14 | 16 | 16 |
| | Capacity | Btu/h | 27300 | 34100 | 42600 | 42600 | 47800 | 47800 | 54600 | 54600 |
| Cooling | Power input | kW | 2.60 | 3.00 | 3.20 | 3.20 | 3.75 | 3.75 | 4.75 | 4.75 |
| | Rated current | А | 11.8 | 13.6 | 14.5 | 6.0 | 17.0 | 7.0 | 21.8 | 8.8 |
| | EER | w/w | 3.08 | 3.33 | 3.91 | 3.91 | 3.73 | 3.73 | 3.37 | 3.37 |
| | | kW | 9 | 11 | 14 | 14 | 16 | 16 | 17 | 17 |
| | Capacity | Btu/h | 30700 | 37500 | 47800 | 47800 | 54600 | 54600 | 58000 | 58000 |
| Heating | Power input | kW | 2.65 | 3.1 | 3.52 | 3.52 | 4 | 4 | 4.4 | 4.4 |
| | Rated current | А | 12 | 14 | 16.1 | 6.6 | 18.2 | 7.5 | 20 | 8.2 |
| | COP | w/w | 3.40 | 3.55 | 3.98 | 3.98 | 4.00 | 4.00 | 3.86 | 3.86 |
| Compres | sor data | | \sim | | | | | | | \sim |
| DO | Quantity | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| DC Inverter compressor Fan data | Туре | | Twin-rotary |
| | Brand | | Mitsubishi | GMCC | Mitsubishi | Highly | Mitsubishi | Highly | Mitsubishi | Mitsubishi |
| Fan data | | | | | | | | | | |
| | Туре | | DC |
| Fan motor | Quantity | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | Power output | W | 75 | 90 | 180 | 90 | 180 | 170 | 180 | 170 |
| Fan blade | Fan Quantity | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 1 di i bidde | Air flow | m³/h | 3300 | 4000 | 5500 | 4000 | 5500 | 5500 | 5500 | 5500 |
| Physical | data | | | | | | | | | |
| | Fin type | | Hydrophilic Foil |
| Outdoor coil | Number of rows | | 3 | 2 | 2 | 2.5 | 3 | 3 | 3 | 3 |
| | Tube type | | Inner-grooved copper tube |
| Refrigerant | Туре | | R410a |
| nonigorani | Volume | kg | 2.00 | 2.60 | 3.00 | 3.00 | 3.80 | 3.45 | 3.80 | 3.80 |
| Dimension | Net | mm | 935x702x383 | 1032x810x445 | 1100x870x528 | 1032×810×445 | 1100x870x528 | 1100x870x528 | 1100x870x528 | 1100x870x528 |
| (WxHxD) | Packing | mm | 975x770x420 | 1075x875x495 | 1140x965x540 | 1075×875×495 | 1140x965x540 | 1140x965x540 | 1140x965x540 | 1140x965x540 |
| Weight | Net | kg | 47 | 60 | 85 | 67.4 | 90 | 87.5 | 90 | 90 |
| | Gross | kg | 50 | 65 | 95 | 72.2 | 100 | 97.4 | 100 | 100 |
| ODU sound lev | el | dB(A) | ≤54 | ≤56 | ≤56 | ≤56 | ≤57 | ≤57 | ≤57 | ≤57 |
| Operatio | n temp. range | | | | | | | | | |
| Cooling | Outdoor side | °C | -5~55 | -5~55 | -5~55 | -5~55 | -5~55 | -5~55 | -5~55 | -5~55 |
| Heating | Outdoor side | °C | -15~30 | -15~30 | -15~30 | -15~30 | -15~30 | -15~30 | -15~30 | -15~30 |

Note

The cooling conditions: indoor temp:27°C DB(80.8°F), 19°C WB(60°F), outdoor temp: 35°C DB(95°F) equivalent pipe length:5m drop length:0m.
 The heating conditions: indoor temp:20°C DB(68°F), 15°C WB(44.8°F), outdoor temp:7°C DB(42.8°F) equivalent pipe length:5m drop length:0m.
 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.
 The above data may be changed without notice for future improvement on quality at performance.

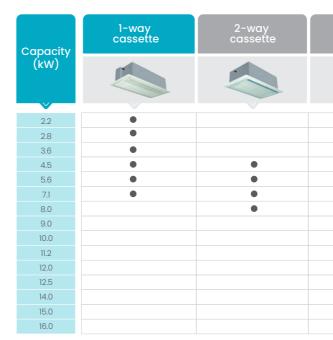
CHV-Mini

INDOOR UNITS

Provide you with fresh air

Indoor Units line Up

-





| Round flow cassette | 4-way cassette (Compact type) | Air Handler |
|------------------------|----------------------------------|----------------|
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| eiling d ducted | Medium ESP ducted unit | High ESP ducted unit | Fresh air |
|--------------------|---------------------------|-------------------------|-----------|
| it auctea | ducted unit | ducted unit | processor |
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1-way Cassette

2-way Cassette





Features.

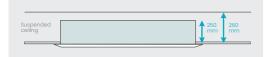
Accessories

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



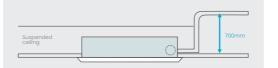
Slim body, easy to install

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



Built-in with drainage pump

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



Specification

| | | | Capo | acity | | Motor | | flow | Sound | ESP | | Dimens | sion(WxHxD) | | Body | Weight | Cor | nnecting | g pipe | | |
|-----------------|---------------|-----|--------|-------|--------|-------|------|--------|----------|-------|------------------------------|------------------------|-----------------------------|-----------------------------|----------|--------------|-------|----------|--------|----------------------|--|
| Model name | Power type | Co | oling | Hee | ating | input | AII | now | Level | ESP | Packing | Body | Panel packing | Panel | Net | Gross | Gas | Liquid | Drain | Standard controller | |
| | | kW | kBtu/h | kW | kBtu/h | kW | M³/h | CFM | DB(A) | Pa | mm | mm | mm | mm | kg | kg | mm | mm | mm | | |
| × | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ~ | × | ~ | ~ | \mathbf{v} | V | ~ | ~ | ~ | |
| CMV-V22Q1/HR1-B | 50Hz | 2.2 | 7.5 | 2.5 | 8.5 | | | | | | 1160 | 994 | 1090 | 1070 | | | | | | | |
| CMV-V28Q1/HR1-B | 50Hz | 2.8 | 9.5 | 3.2 | 10.9 | 0.04 | 520 | 306 | 32~36 | | 275 | 250 | 65 | 50 x | 24/3.6 | 30/5.0 | Φ9.53 | | | | |
| CMV-V36Q1/HR1-B | 50Hz | 3.6 | 12.2 | 4.0 | 13.6 | | | | | | 655 | 532 | 540 | 520 | | | | | | | |
| CMV-V45Q1/HR1-B | 50Hz | 4.5 | 15.3 | 5.0 | 17.0 | 0.05 | 610 | 360 | 60 36~41 | / | 1160 x 315 x 655 | 994 290 x 532 | 1090 × 65 × 540 | 1070 x 50 x 520 | 26/3.6 | 32/5.0 | Φ12.7 | Φ6.35 | ODΦ25 | Remote controller | |
| CMV-V56Q1/HR1-B | 50Hz | 5.6 | 19.1 | 6.3 | 21.4 | 0.07 | 750 | 440 | 35~41 | | 1470 305 | 1304 290 | 1390 x 70 | 1380 x 50 | 34/3.6 | 39/5.0 | | | | | |
| CMV-V71Q1/HR1-B | 50Hz | 7.1 | 24.2 | 8.0 | 27.2 | 0.09 | 950 | 60 550 | 38~45 | 38~45 | | 690 | 290 X 572 | 560 | x 520 | | | Φ15.9 | Φ9.53 | | |

Notes

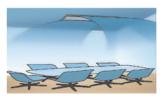
1.Power supply: 220~240V/IN for 50Hz, the above data is for AC motor model.

2.Cooling test condition: indoor side 27°C DB, I9C WB outdoor side 35°C DB. Heating test condition: indoor side 20°C DB, I5C 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.

| | | - Feat | tures — | | |
|-------------|------------|--------------------|--------------------|----------|----------|
| Accessories | | | | | |
| Plenum box | Air filter | EXV | Drain pump | AC motor | DC motor |
| / | Standard | Standard(built-in) | Standard(built-in) | Standard | / |

S 2 way air direction

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



Specification -

| 1 | | | | Cap | acity | | Motor | Air | flow | Sound | ESP | | Dimensi | ion(WxHxD) | | Body | / Weight | Cor | nnecting | pipe | | | |
|---|-----------------|---------------|-----|--------|-------|--------|-------|---------|------|-------|-------|------------------|------------------|------------------|------------------|-----------------|-----------------|-------------|----------|----------------|------------------------|-------|------------|
| | | Power type | Co | oling | He | ating | input | All | IOW | Level | EOF | Packing | Body | Panel packing | Panel | Net | Gross | Gas | Liquid | Drain | Standard controller | | |
| | | | kW | kBtu/h | kW | kBtu/h | kW | M³/h | CFM | DB(A) | Pa | mm | mm | mm | mm | kg | kg | mm | mm | mm | | | |
| | • | . • | • | × . | • | × . | • | × | × | · · | • | • | • | • | • | × | • | × | × | • | • | | |
| | CMV-V45Q2/HR1-B | 50Hz | 4.5 | 15.3 | 5.0 | 17 | 0.07 | 800 | 470 | 36~42 | | 1215 x 365 | 1068 x 310 | 1235 x 70 | 1205 x 50 | 33/6.5 | 36/8.5 | Φ12.7 | Φ6.35 | | | | |
| | CMV-V56Q2/HRI-B | 50Hz | 5.6 | 19.1 | 6.3 | 21.4 | 0.07 | 000 | 470 | 00 42 | / | 630 | x 517 | 655 | x 630 | 33/0.5 | 30/0.3 | Ψ12.7 | Ψ0.55 | OD Φ 25 | Remote | | |
| | CMV-V71Q2/HR1-B | 50Hz | 7.1 | 24.2 | 8.0 | 27.2 | 0.10 | 1120 | 650 | 40-46 | 40~46 | / | / | 1455 x 365 | 1308 x 310 | 1475 x 70 | 1445 x 50 | 40/75 | 47/10.0 | Φ15.9 | Φ9.53 | 00023 | controller |
| | CMV-V80Q2/HR1-B | 50Hz | 8.0 | 27.2 | 9.0 | 30.7 | 0.10 | 10 1120 | 030 | 40.40 | | 305 X 630 | x 517 | 655 | x 630 | 40/7.5 | 47/10.0 | 10.0 | \$0.00 | | | | |

1.Power supply: 220~240V/IN for 50Hz, the above data is for AC motor model. 2.Cooling test condition: indoor side 7^oC DB, 19^oCWB outdoor side 35^oC DB. Heating test condition: indoor side 20^oC DB, 15^oC WB outdoor side 7^oC 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.



Built-in with drainage pump

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





Features-

Accessories

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

Wide air delivering

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



<u>ه</u>ه، ا Built-in with drainage pump

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

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



Space saving installation

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

| Suspended 230 mm | | 260 |
|------------------|----------------------|-----|
| | Suspended ceiling | |

Fresh air intake

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





4-way Cassette Unit(Compact type)

| | | | Cap | acity | | Power | | flow | Sound | ESP | | Dimensi | ion(WxHxD) | | Body | Weight | Co | nnectin | g pipe | | | |
|------------------|---------------|-----|---------|-------|--------|-------|-------|-------|--------|-------|----------|----------|---------------|---------|----------|----------|-------|---------|----------------|------------------------|-------|------------|
| Model name | Power type | Co | oling | He | ating | input | AIr | now | Level | ESP | Packing | Body | Panel packing | Panel | Net | Gross | Gas | Liquid | Drain | Standard controller | | |
| | | kW | kBtu/h | kW | kBtu/h | kW | M³/h | CFM | DB(A) | Pa | mm | mm | mm | mm | kg | kg | mm | mm | mm | | | |
| × | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ~ | × | × | × | ~ | ~ | ~ | ~ | ~ | ~ | × | | |
| CMV-V22Q4/HRI-C | 50Hz | 2.2 | 7.5 | 0.5 | 0.5 | 0.000 | 4.47 | | 00.04 | | | | | | 17.5 | 23 | | | | | | |
| CMV-V22Q4/HNR1-C | 60Hz | 2.2 | 7.5 | 2.5 | 8.5 | 0.038 | 447 | 263 | 22~34 | | | | | | 17.5 | 23 | Φ9.52 | | | | | |
| CMV-V28Q4/HRI-C | 50Hz | 0.0 | 2.8 9.5 | 3.2 | 10.9 | 0.038 | 447 | 263 | 22~34 | | 755 | 653 | 750 | 650 | 17.5 | 23 | Ψ9.52 | | | | | |
| CMV-V28Q4/HNR1-C | 60Hz | 2.8 | 9.5 | 3.2 | 10.9 | 0.038 | 447 | 203 | 22~34 | , | x 375 | x 267 | x 95 | x 30 | 17.5 | 23 | | Φ6.35 | OD Φ 25 | Remote | | |
| CMV-V36Q4/HR1-C | 50Hz | 3.6 | 10.0 | 10.0 | 12.2 | 4.0 | 13.6 | 0.040 | 515 | 303 | 27~38 | / | x 680 | х | x 750 | x 650 | 17.5 | 23 | | Ψ0.35 | 00025 | controller |
| CMV-V36Q4/HNR1-C | 60Hz | 3.0 | 12.2 | 4.0 | 13.0 | 0.040 | 515 | 303 | 2/~30 | | 680 | 585 | /50 | 650 | 17.5 | 23 | | | | | | |
| CMV-V45Q4/HR1-C | 50Hz | 45 | Z | 15.3 | 5.0 | 17 | 0.040 | 515 | 303 | 27~38 | | | | | | 17.5 | 23 | Φ12.7 | | | | |
| CMV-V45Q4/HNR1-C | 60Hz | 4.5 | 13.5 | 3.0 | 17 | 0.040 | 515 | 303 | 21.030 | | | | | | 17.5 | 23 | | | | | | |

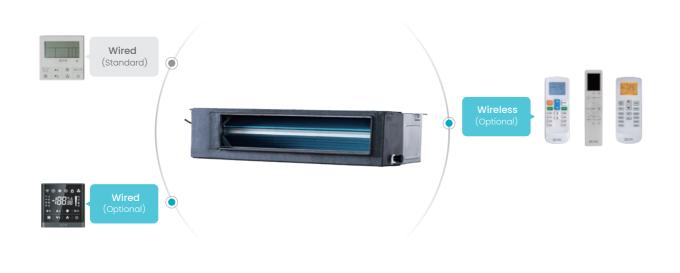
Round-flow Cassette

| | | | Cap | acity | | Power | Air | flow | Sound | ESP | | Dimensi | on(WxHxD) | | Body | Weight | Co | nnectin | g pipe | |
|-----------------|---------------|------|--------|-------|--------|-------|------|------|-------|-----|----------|----------|---------------|----------|------|--------|--------|--------------|--------|---------------------|
| Model name | Power type | Co | oling | Heo | ating | input | Air | now | Level | ESP | Packing | Body | Panel packing | Panel | Net | Gross | Gas | Liquid | Drain | Standard controller |
| | | kW | kBtu/h | kW | kBtu/h | kW | M³/h | CFM | DB(A) | Pa | mm | mm | mm | mm | kg | kg | mm | mm | mm | |
| | | • | · · | • | · · | • | · · | · · | · · | · · | - | · · | · · | - | · · | · · | · · | - | • | |
| CMV-V56QR/HR1 | 50Hz | 5.6 | 19.1 | 6.3 | 21.4 | 0.043 | 860 | 500 | 32~39 | | | | | | 24 | 30 | Φ12.7 | Φ6.35 | | |
| CMV-V56QR/HNR1 | 60Hz | | | | | | | | | | 920 | 833 | | | | | | | | |
| CMV-V71QR/HR1 | 50Hz | 7.1 | 24.2 | 8.0 | 27.2 | | | | | | x 265 | x 232 | | | 24 | 30 | | | | |
| CMV-V71QR/HNR1 | 60Hz | 7.1 | 2.1.2 | 0.0 | 27.2 | 0.093 | 1200 | 700 | 35~39 | | x 985 | x 900 | | | 2. | | | | | |
| CMV-V80QR/HR1 | 50Hz | 8.0 | 27.2 | 8.8 | 30 | 0.000 | 1200 | ,00 | 00 00 | | 305 | 300 | | | 24 | 30 | | | | |
| CMV-V80QR/HNR1 | 60Hz | 8.0 | 27.2 | 8.8 | 30 | | | | | | | | | | 24 | 30 | | | | |
| CMV-V90QR/HR1 | 50Hz | 0.0 | 00.7 | 10.0 | 0.41 | | | | | | | | | | 00.5 | 0.5 | | | | |
| CMV-V90QR/HNR1 | 60Hz | 9.0 | 30.7 | 10.0 | 34.1 | | | | | | | | 1000 | 050 | 28.5 | 35 | | | | |
| CMV-V100QR/HR1 | 50Hz | 10.0 | 34.1 | 11.0 | 37.5 | | | | | , | | | 1030 x | 950 x | 00.5 | 35 | | | | Remote |
| CMV-V100QR/HNR1 | 60Hz | 10.0 | 34.1 | 11.0 | 37.5 | | | | | / | | | 100 x | 50 x | 28.5 | 35 | Φ15.88 | 0 050 | Φ25 | controller |
| CMV-V112QR/HR1 | 50Hz | 11.2 | 38.2 | 12.5 | 42.6 | | 1400 | 820 | 37~41 | | 920 | 833 | 1030 | 950 | 28.5 | 35 | Ψ15.88 | Ψ9.52 | | |
| CMV-V112QR/HNR1 | 60Hz | 11.2 | 30.2 | 12.0 | 42.0 | 0.160 | | | | | x 310 | x 286 | | | 20.0 | 30 | | | | |
| CMV-V125QR/HR1 | 50Hz | 12.5 | 42.6 | 14.0 | 47.7 | 0.160 | | | | | x 985 | x 900 | | | 28.5 | 35 | | | | |
| CMV-V125QR/HNR1 | 60Hz | 12.5 | 42.0 | 14.0 | 47.7 | | | | | | 000 | 000 | | | 28.5 | 35 | | | | |
| CMV-V140QR/HR1 | 50Hz | 14.0 | 47.7 | 15.0 | | | | | | | | | | | | | | | | |
| CMV-V140QR/HNR1 | 60Hz | 14.0 | 47.7 | 15.0 | 51.1 | | 1000 | 1050 | 00.40 | | | | | | 28.5 | 35 | | | | |
| CMV-V160QR/HR1 | 50Hz | 10.0 | 545 | 17.0 | 50 | | 1800 | 1050 | 38~46 | | | | | | 00.5 | 05 | | | | |
| CMV-V160QR/HNR1 | 60Hz | 16.0 | 54.5 | 17.0 | 58 | | | | | | | | | | 28.5 | 35 | | | | |

1.Power supply: 220-240V/IN for 50Hz; 208-230V/IN for 60Hz, the above data is for AC motor model. 2.Cooling test condition: indoor side 2^{oo} 2⁻⁰⁰ (PM B outdoor side 3^o CD B, Heating test condition: indoor side 2^{oo} CD B, 15^o CW B outdoor side 3^{oo} CD B, 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.

Specification -

Short Ceiling Concealed Ducted Unit



 Slim body, easy to install Ara slim body with 210mm height, it is specially uitable for low suspended ceiling rooms.

 Image: Slim body with 210mm height, it is specially uitable for low suspended ceiling rooms.

 Image: Slim body with 210mm height, it is specially uitable for low suspended ceiling rooms.

 Image: Slim body with 210mm height, it is specially uitable for low suspended ceiling rooms.

 Image: Slim body with 210mm height, it is specially uitable for low suspended ceiling rooms.

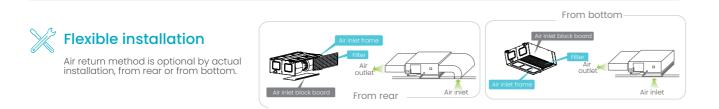
 Image: Slim body with 210mm height, it is specially uitable for low suspended ceiling rooms.

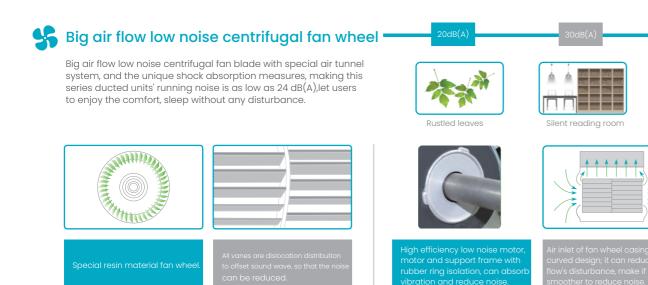
 Image: Slim body with 210mm height, it is specially uitable for low suspended ceiling rooms.

Features

Accessories

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





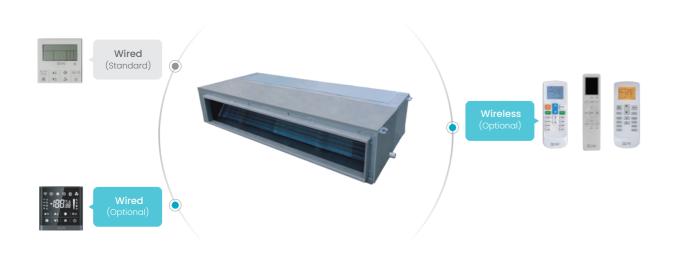
| | | | Cap | acity | | Rated | A | flow | Sound | ESP | | Dimens | sion(WxHxD) | | Body | Weight | Co | nnectin | g pipe | |
|------------------|---------------|---------|--------|---------|--------|---------|------|------|-----------|------|------------------|------------------|---------------|---------|---------|---------|---------|---------|---------|--------------------|
| Model name | Power type | Co | oling | Не | ating | input | AIr | now | Level | ESP | Packing | Body | Panel packing | Panel | Net | Gross | Gas | Liquid | Drain | Standa controll |
| V | | kW V | kBtu/h | kW V | kBtu/h | k₩ Ƴ | M²/h | CFM | DB(A) | Pa | mm V | mm V | mm | mm V | kg ❤ | kg V | mm V | mm V | mm V | |
| CMV-V22TA/HRI-C | 50Hz | 2.2 | 7.5 | 2.5 | 8.5 | | | | | | | | | | 16.0 | 18.5 | | | | |
| CMV-V22TA/HNR1-C | 60Hz | 2.2 | 7.5 | 2.5 | 8.9 | 0.08 | 450 | 260 | 24~29 | | | | | | 10.0 | 18.5 | Φ9.52 | | | |
| CMV-V28TA/HR1-C | 50Hz | 2.8 | 9.5 | 3.2 | 10.9 | 0.08 | 450 | 200 | 24~29 | | 910 | 814 | | | 16.0 | 18.5 | Ψ0.02 | | | |
| CMV-V28TA/HNR1-C | 60Hz | 2.0 | 3.5 | 0.2 | 10.5 | | | | | | х | Х | | | 10.0 | 10.0 | | | | |
| CMV-V36TA/HRI-C | 50Hz | 3.6 | 12.2 | 4.0 | 13.6 | | 550 | 324 | 25~32 | | 240 x | 210 x | | | 16.5 | 19.0 | | | | |
| CMV-V36TA/HNR1-C | 60Hz | 3.0 | 12.2 | 4.0 | 13.0 | 0.11 | | 024 | 20 02 | 30 | 510 | 467 | | | 10.5 | 13.0 | | Φ6.35 | | |
| CMV-V45TA/HR1-C | 50Hz | 4.5 | 15.3 | 5.0 | 17 | | 620 | 360 | 32~37 | 50 | 00 | | / | / | 16.5 | 19.0 | +10 - | | ODΦ25 | Wired |
| CMV-V45TA/HNR1-C | 60Hz | 4.0 | 10.0 | 0.0 | 17 | | 020 | 000 | 02 07 | | | | | | 10.5 | 13.0 | Φ12.7 | | | |
| CMV-V56TA/HRI-C | 50Hz | | | | | | | | | | 1110 240 | | | | | | | | | |
| CMV-V56A/HNR1-C | 60Hz | 5.6 | 19.1 | 6.3 | 21.4 | 0.16 | 800 | 520 | 520 28~38 | | 240 X 510 | 210 X 467 | | | 21.0 | 24.0 | | | | |
| CMV-V71TA/HR1-C | 50Hz | 7.1 | 24.2 | 8.0 | 27.2 | 0.18 | 1000 | 640 | 30~39 | 1310 | 1310 X 240 | 1214 x 210 | 4 | | 25.5 | 28.5 | Φ15.88 | Φ9.52 | | |
| CMV-V71TA/HNR1-C | 60Hz | | | | | 0.10 | 1000 | 640 | 30~39 | | 240 X 510 | 467 | | | 20.0 | 20.0 | + .0.00 | + 0.02 | | |

Notes:

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



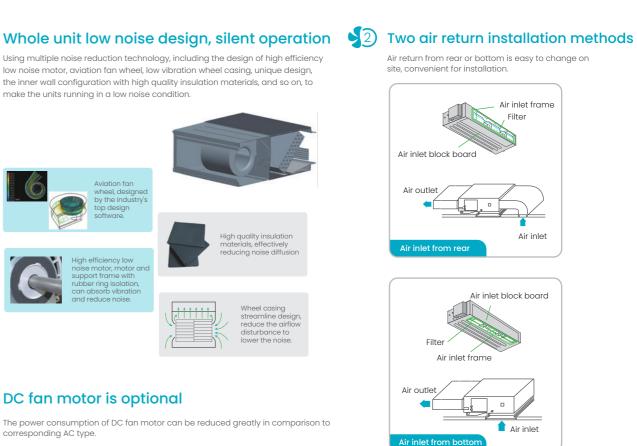
-Specification-



Whole unit low noise design, silent operation

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

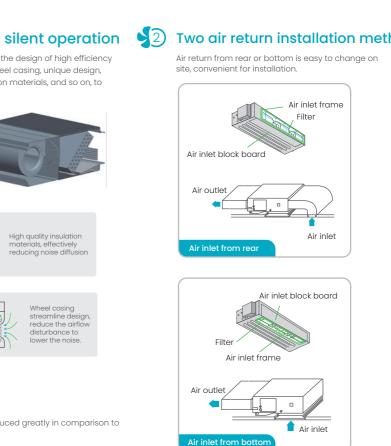






DC fan motor is optional

corresponding AC type.



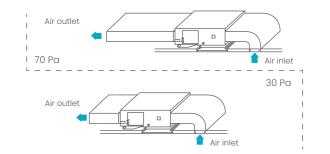
Features

Accessories

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

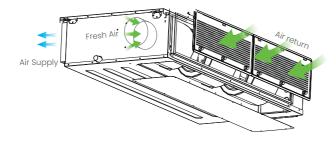
Static pressure

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



SFresh air intake

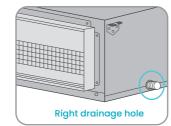
A reserved outside air intake port allows outdoor air to be introduced directly into the unit, no need for a seperate ventilation system.

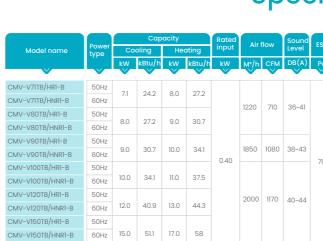


Convenient in drainage pipe installation

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







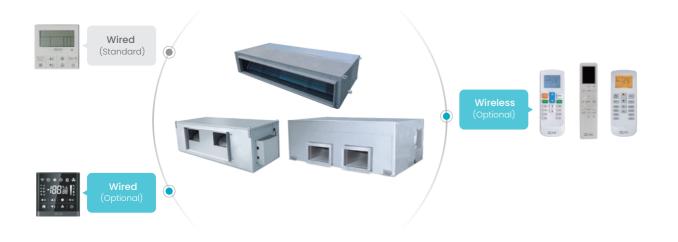
Notes

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

Specification -

| SP | | Dimen | sion(WxHxD) | | Body | Weight | Co | nnectin | g pipe | |
|----|------------------|------------------|---------------|-------|------|--------|---------|---------|----------------|------------------------|
| 35 | Packing | Body | Panel packing | Panel | Net | Gross | Gas | Liquid | Drain | Standard controller |
| Pa | mm | mm | mm | mm | kg | kg | mm | mm | mm | |
| ~ | ~ | • | • | ~ | · · | × | × | • | • | • |
| | 1255 x 325 | 1209 x 260 | | | 33 | 37 | | | | |
| | x 720 | x 680 | | | 33 | 37 | | | | |
| 70 | | | | | 46 | 50 | ΦIE 0.0 | Φ9.52 | OD Φ 25 | Wired |
| /0 | 1490 x 325 | 1445 x 260 | / | / | 46 | 50 | Ψ15.88 | Ψ9.52 | ΟDΦ25 | controller |
| | x 720 | x 680 | | | 46 | 50 | | | | |
| | | | | | 46 | 50 | | | | |

High ESP Ducted Unit



Features-

Accessories

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

S Optional water pump



Can be used with various diffusers









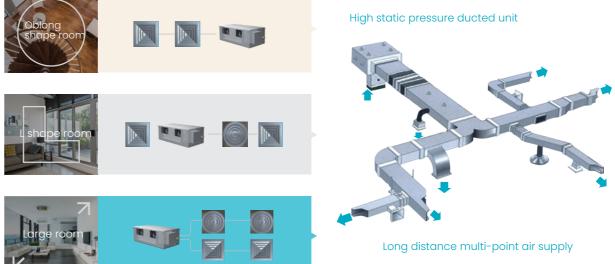


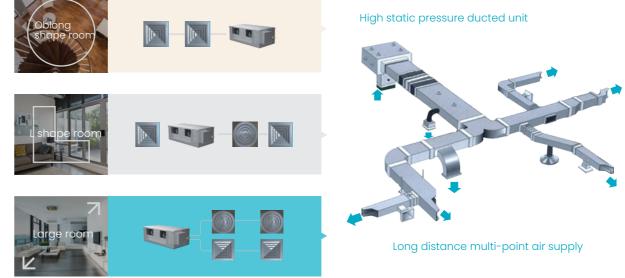
Rectangular diffuser

W High static pressure

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







| | | | Cap | acity | | Power | | | Sound | | Dimensio | n(WxHxD) | Body | Weight | Co | nnectin | g pipe | |
|----------------------|---------------|---------|--------|---------|--------|---------|-----------|------|-------|---------|--------------|------------------|---------|---------|---------|---------------|----------------|---------------------|
| Model name | Power type | Co | oling | He | ating | input | Air | flow | Level | ESP | Packing | Body | Net | Gross | Gas | Liquid | Drain | Standard controller |
| V | ~ | kW V | kBtu/h | kW V | kBtu/h | k₩ ❤ | M²/h ❤ | CFM | DB(A) | Pa V | mm V | mm V | kg ❤ | kg ❤ | mm V | mm V | mm V | ~ |
| CMV-V71TH/HR1-B | 50Hz | 71 | | 7.0 | 00.0 | | | | | | | | | | | | | |
| CMV-V71TH/HNR1-B | 60Hz | 7.1 | 24.2 | 7.8 | 26.6 | | | | | | 1490 | 1445 | | | | | | |
| CMV-V80TH/HRI-B | 50Hz | 8.0 | 27.2 | 8.8 | 30 | 0.40 | 1500 | 880 | 40~42 | | x 325 | x 260 | 46 | 50 | | | | |
| CMV-V80TH/HNR1-B | 60Hz | 8.0 | 21.2 | 8.8 | 30 | 0.40 | 1500 | 880 | 40~42 | | x 720 | X | 40 | 50 | | | | |
| CMV-V90TH/HRI-B | 50Hz | 9.0 | 30.7 | 10.0 | 34.1 | | | | | | /20 | 680 | | | | | | |
| CMV-V90TH/HNR1-B | 60Hz | 9.0 | 30.7 | 10.0 | 34.1 | | | | | | | | | | Φ15.88 | M Q 52 | OD Φ 25 | |
| CMV-V100TH/HR1-B | 50Hz | 10.0 | 34.1 | 11.0 | 37.5 | | | | | | | | | | Ψ13.00 | Ψ9.52 | 00425 | |
| CMV-V100TH/HNR1-B | 60Hz | 10.0 | 34.1 | 11.0 | 37.0 | | | | | | 1245 | 1190 | | | | | | |
| CMV-V120TH/HR1-B | 50Hz | 12.0 | 40.9 | 13.0 | 44.3 | 0.50 | 2300 | 1350 | 44~52 | | x 445 | x 370 | 47 | 51 | | | | |
| CMV-V120TH/HNR1-B | 60Hz | 12.0 | 40.5 | 13.0 | 44.5 | 0.50 | 2300 | 1350 | 44~52 | | x 655 | x 620 | 47 | 51 | | | | |
| CMV-V150TH/HR1-B | 50Hz | 15.0 | 51.1 | 17.0 | 58.0 | | | | | 150 | 655 | 620 | | | | | | Wired |
| CMV-V150TH/HNR1-B | 60Hz | 10.0 | 51.1 | 17.0 | 50.0 | | | | | | | | | | | | | controller |
| CMV-V200TH/HR1-B | 50Hz | 20.0 | 68.2 | 22.0 | 75.0 | 1.72 | 4000 | 2350 | 45~53 | | 1510-500-070 | 1405-440-01 | | | | | | |
| CMV-V200TH/HNRI-B | 60Hz | 20.0 | 00.2 | 22.0 | 75.0 | 1.72 | 4000 | 2330 | 40~03 | | 1510x580x870 | 1465x448x811 | | | | | | |
| GCHV-D200TH/HRI-F310 | 50/60Hz | 20.0 | 68.2 | 22.0 | 75.0 | 1.20 | 3750 | 2200 | 45~50 | | 1515x885x580 | 1440x811x448 | | | | | | |
| CMV-V250TH/HR1-B | 50Hz | 25.0 | 85.3 | 27.5 | 93.8 | 1.72 | 4200 | 2470 | 45~54 | | 1510x580x870 | 1465x448x811 | 102 | 113 | Φ22.2 | ¢10.7 | OD Φ 30 | |
| CMV-V250TH/HNRI-B | 60Hz | 20.0 | 00.0 | 27.5 | 33.0 | 1.72 | 4200 | 2470 | 40~04 | | 1510X580X870 | 1403X448X811 | 102 | 113 | Ψ22.2 | ΨΙΖ.7 | 00430 | |
| GCHV-D250TH/HRI-F310 | 50/60Hz | 25.0 | 85.3 | 27.5 | 93.8 | 1.20 | 3750 | 2200 | 46~51 | | 1515x885x580 | 1440x811x448 | | | | | | |
| CMV-V280TH/HRI-B | 50Hz | 28.0 | 95.5 | 30.8 | 105.0 | 1.72 | 4400 | 2590 | 45~55 | | 1510-500-070 | 1405-440-01 | | | | | | |
| CMV-V280TH/HNR1-B | 60Hz | 20.0 | 00.0 | 00.0 | 100.0 | 1.72 | 4400 | 2000 | 45-55 | | 1510x580x870 | 1465x448x811 | | | | | | |
| GCHV-D280TH/HRI-F310 | 50/60Hz | 28.0 | 95.5 | 30.8 | 105.0 | 1.30 | 4100 | 2400 | 48~52 | | 1515x885x580 | 1440x811x448 | | | | | | |
| CMV-V450TH/HZR1-B | 50Hz | 45.0 | 153.5 | 50.0 | 170.6 | 2.60 | 6000 | 3520 | 60 | | 2267 | 2165 | | | | | | |
| CMV-V450TH/HXR1-B | 60Hz | 40.0 | 100.0 | 00.0 | 170.0 | 2.00 | 3000 | 3020 | 00 | 200 | х | 2165 X 676 | 222 | 260 | Φ28.6 | Φ15.88 | OD Φ 32 | |
| CMV-V560TH/HRI-B | 50Hz | 56.0 | 191.0 | 63.0 | 214.9 | 3.40 | 8000 | 4700 | 64 | 200 | X | Х | | | | | | |
| CMV-V560TH/HXR1-B | 60Hz | 50.0 | 101.0 | 00.0 | 21-1.0 | 3.40 | 3000 | 4700 | 04 | | 1050 | 916 | | | | | | |

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.

Spiral diffuser



Linear diffuser

-Specification-

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.



Refrigerant pipe can be connected from 3 directions.

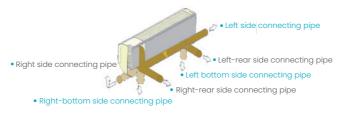
2 panels can be chosen, suitable for all kinds of decoration style

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

Hotel card function

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





GCHV-D22G/HR1-GS Cooling 2.8 2.2 kW Capacity Heating 2.5 3.2 Power input 15 15 Туре DC DC Fan motor Speed (Hi/Med/Low) r/m 1000/900/870/850 1000/900/870/850 Air flow 440/380/360/350 440/380/360/350 Sound Pressure level 24~33 24~33 864x300x200 864x300x200 Body dimensior (WxHxD) 945x375x290 945x375x290 Packina 9.5/12 9.5/12 Body weight Net/Gross kc Refrigerant type R410A R410A Throttle type EXV EXV Liquid pipe/Gas pipe Φ6.35/Φ9.52 Φ6.35/Φ9.52

Φ20

16~32

Drainage water pipe (Outer diameter)

Operation tempera

Notes: 1.Power supply: 220-240V/IN for 50Hz;208-230V/IN for 60Hz.

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

Φ20

16~32



Specification -

| GCHV-D36G/HR1-GSB | GCHV-D45G/HR1-GSC | GCHV-D56G/HR1-GSC | GCHV-D71G/HR1-GSC |
|---------------------|---------------------|---------------------|---------------------|
| 220-240V/1N/50&60Hz | 220-240V/IN/50&60Hz | 220-240V/1N/50&60Hz | 220-240V/1N/50&60Hz |
| \checkmark | \sim | \checkmark | \checkmark |
| 3.6 | 4.5 | 5.6 | 7.1 |
| 4.0 | 5.0 | 6.3 | 8.0 |
| 18 | 20 | 23 | 35 |
| DC | DC | DC | DC |
| 1100/1000/950/900 | 1050/950/900/850 | 1100/1000/950/900 | 1300/1200/1100/1000 |
| 500/440/415/380 | 655/610/565/525 | 720/645/580/560 | 890/805/720/645 |
| 27~36 | 29~38 | 32~42 | 35~43 |
| 864x300x200 | 972x320x215 | 972x320x215 | 972x320x215 |
| 945x375x290 | 1060x400x310 | 1060x400x310 | 1060x400x310 |
| 9.5/12 | 11.5/14 | 11.5/14 | 11.5/14 |
| R410A | R410A | R410A | R410A |
| EXV | EXV | EXV | EXV |
| Φ6.35/Φ12.7 | Φ6.35/Φ12.7 | Φ6.35/Φ12.7 | Φ9.52/Φ15.88 |
| Φ20 | Φ20 | Φ20 | Φ20 |
| 16~32 | 16~32 | 16~32 | 16~32 |



Floor Ceiling Unit



• Features •

Accessories

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

Flexible installation

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

送 Wide angle air supply

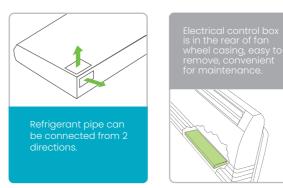


centrifugal fans, has big air flow and long distance air supply.

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 installtion



Two kinds of grilles for selection

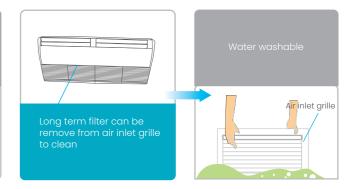




Honeycomb Type Grill (Optional)

| | | | Cap | acity | | Power input | Air | flow | | Dimensior | n(WxHxD) | Body | Weight | Cor | nnecting | g pipe | |
|-----------------------|------------|---------|--------|---------|--------|-------------|------|----------|-------------|-----------|----------|---------|---------|---------|----------|--------|---------------------|
| Model name | Power type | Co | oling | Не | ating | Power input | Alf | now | Sound Level | Packing | Body | Net | Gross | Gas | Liquid | Drain | Standard controller |
| V | V | k₩ ❤ | kBtu/h | kW V | kBtu/h | kW V | M³/h | CFM V | DB(A) | mm V | mm V | kg Ƴ | kg Ƴ | mm V | mm V | mm | |
| GCHV-V36UA/HR1-LDBA | 50Hz | 3.6 | 12.3 | 4.0 | 13.7 | | | | | | | | | | | | |
| GCHV-V36UA/HNRI-LDBA | 60Hz | 3.0 | 12.3 | 4.0 | 13.7 | 0.085 | 620 | 360 | 37~42 | 1130 | 1050 | | | | | | |
| GCHV-V45UA/HR1-LDBA | 50Hz | 4.5 | 15.3 | 5.0 | 17 | 0.085 | 620 | 360 | 37~42 | X | X | | | +10.7 | + | | |
| GCHV-V45UA/HNR1-LDBA | 60Hz | 4.5 | 10.3 | 5.0 | 17 | | | | | 765 x | 675 x | 26.5 | 31.0 | Φ12.7 | Φ6.35 | DN20 | |
| GCHV-V56UA/HR1-LDBA | 50Hz | 5.6 | 19.1 | 6.3 | 21.4 | 0.110 | | | 07.47 | 330 | 235 | | | | | | |
| GCHV-V56UA/HNR1-LDBA | 60Hz | 0.0 | 19.1 | 0.3 | 21.4 | 0.110 | 800 | 470 | 37~47 | | | | | | | | |
| GCHV-V71UA/HR1-LDBB | 50Hz | 7.1 | 24.2 | 8.0 | 27.2 | | | | | 1380 | 1300 | | | | | | |
| GCHV-V71UA/HNR1-LDBB | 60Hz | 7.1 | 24.2 | 8.0 | 21.2 | 0.005 | 1000 | 706 | 45 51 | X | X | 00.0 | 37.0 | | | | |
| GCHV-V80UA/HR1-LDBB | 50Hz | 8.0 | 27.2 | 8.8 | 30 | 0.095 | 1200 | 706 | 45~51 | 765 x | 675 x | 32.0 | 37.0 | | | | |
| GCHV-V80UA/HNR1-LDBB | 60Hz | 8.0 | 21.2 | 8.8 | 30 | | | | | 325 | 235 | | | | | | Remote |
| GCHV-V90UA/HR1-LDBC | 50Hz | 9.0 | 30.7 | 10.0 | 34,1 | | | | | | | | | +15.00 | + | | controller |
| GCHV-V90UA/HNR1-LDBC | 60Hz | 9.0 | 30.7 | 10.0 | 34.1 | 0.160 | 1600 | 940 | 45~50 | | | | | Φ15.88 | Φ9.52 | DN20 | |
| GCHV-V112UA/HR1-LDBC | 50Hz | 11.2 | 38.2 | 12.5 | 42.6 | 0.100 | 1000 | 540 | 40~50 | 1750 | 1670 | | | | | | |
| GCHV-V112UA/HNR1-LDBC | 60Hz | 11.2 | 38.2 | 12.0 | 42.0 | | | | | x 765 | x 675 | 41.0 | 47.0 | | | | |
| GCHV-V140UA/HR1-LDBC | 50Hz | 14.0 | 47.7 | 15.0 | 51.1 | | | | | /65 X | 675 X | 41.0 | 47.0 | | | | |
| GCHV-V140UA/HNR1-LDBC | 60Hz | 14.0 | 4/./ | 13.0 | 01.1 | 0.000 | 0000 | | 45 5 4 | 325 | 235 | | | | | | |
| GCHV-V160UA/HR1-LDBC | 50Hz | 16.0 | 54.5 | 17.0 | 58 | 0.200 | 2000 | 1177 | 45~54 | | | | | | | | |
| GCHV-V160UA/HNR1-LDBC | 60Hz | 10.0 | 54.5 | 17.0 | 58 | | | | | | | | | | | | |

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



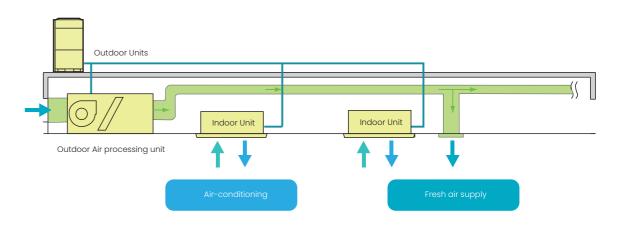


-Specification-

Fresh Air Processor



Innovative air supply technology for excellent room temperature control Fresh air unit can be connected with other type indoor units. Layout Example:



Notes: Note: Note:

Features

Accessories

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

Healthy and comfortable

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

100% Fresh air processing unit

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

0 High external static pressure

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

Specification

| | | | Cap | acity | | Power | Air f | | Sound | ESP | | Dimensi | on(WxHxD) | | Body | Weight | Co | nnectin | g pipe | |
|-------------------|---------------|------|--------|-------|--------|--------|-------|-------|-------|-----|------------------|------------------|---------------|---------|---------|---------|--------|---------|----------------|---------------------|
| Model name | Power type | Co | oling | Heo | ating | input | AIF | low | Level | ESP | Packing | Body | Panel packing | Panel | Net | Gross | Gas | Liquid | | Standard controller |
| ~ | ~~ | kW | kBtu/h | k₩ | kBtu/h | k₩ | M³/h | CFM | DB(A) | Pa | mm V | mm V | mm V | mm V | kg Ƴ | kg Ƴ | mm | mm | mm | |
| CMV-V140TF/HR1-B | 50Hz | 14.0 | 47.7 | 9.0 | 30.7 | 0.45 | 1400 | 820 | 42~48 | 220 | 1245 x 445 | 1190 x 370 | | | 47 | 51 | Φ15.88 | Φ9.52 | OD Φ 25 | |
| CMV-V140TF/HNR1-B | 60Hz | | | 0.0 | | 0.10 | | 020 | 12 10 | | x 655 | x 620 | | | | | | | | |
| CMV-V224TF/HRI-B | 50Hz | 22.4 | 76.4 | 16.0 | 54.5 | 1.20 | 2000 | 1170 | 45~52 | 220 | 1510 x 490 | 1465 x 448 | | | 102 | 106 | | | | |
| CMV-V224TF/HNRI-B | 60Hz | 22.4 | 70.4 | 10.0 | 04.0 | 1.20 | | 1170 | 40 02 | 220 | 490 x 870 | 448 x 811 | | | | | | | | |
| CMV-V280TF/HRI-B | 50Hz | 28.0 | 95.5 | 20.0 | 68.2 | 1.20 | 2800 | 1640 | 45~52 | 220 | 1510 x | 1465 X | | / | 102 | 106 | Φ22.2 | Φ12.7 | OD Φ 30 | Wired |
| CMV-V280TF/HNRI-B | 60Hz | 20.0 | 00.0 | 20.0 | 00.2 | ii.L.O | | 10 10 | 10 02 | 220 | 490 x 870 | 448 x 811 | | 1 | | | | | | controller |
| CMV-V450TF/HZRI | 50Hz | 45.0 | 153.5 | 31.4 | 107.1 | 1.60 | 4000 | 3520 | 58 | 300 | 2200 x | 2165 x | | | 222 | 260 | | | | |
| CMV-V450TF/HXRI | 60Hz | 10.0 | 100.0 | 0.11 | 107.1 | 1.00 | | 0020 | | 000 | 710 x 1018 | 676 x 916 | | | | | | | | |
| CMV-V560TF/HZRI | 50Hz | 56.0 | 191.0 | 39.0 | 133.0 | 2.50 | 6000 | 4700 | 62 | 300 | 2200 x | 2165 × | | | 222 | 260 | Φ28.6 | Φ15.88 | OD Φ 32 | |
| CMV-V560TF/HXRI | 60Hz | 00.0 | .01.0 | 00.0 | .00.0 | 2 | | | 52 | 200 | 710 x 1018 | 676 x 916 | | | | | | | | |

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

-Specification-

Supspended type specification

| Model name | Air flow | ESP | Power input | Power suppy | Temperatur efficier | re exhanging ncy(%) | | exhanging ncy(%) | Noise | Body dimension (WxDxH) | Weight |
|------------|----------|-----|-------------|--------------|------------------------|------------------------|--------------|---------------------|--------|---------------------------|--------|
| modermanne | M³/h | Pa | w | (v) | Cooling | Heating | Cooling | Heating | dB(A) | mm | kg |
| × | | V | \sim | × | \sim | \sim | \checkmark | \checkmark | \sim | \sim | |
| QR-X02D | 200 | 75 | 65 | | 60.0 | 65.0 | 50.0 | 55.0 | 30 | 666x580x264 | 25 |
| QR-X03D | 300 | 75 | 130 | | 60.0 | 65.0 | 50.0 | 55.0 | 33 | 744x599x270 | 27 |
| QR-X04D | 400 | 80 | 200 | | 60.0 | 65.0 | 50.0 | 55.0 | 35 | 744x804x270 | 30 |
| QR-X05D | 500 | 80 | 220 | 220V/1N/50Hz | 60.0 | 65.0 | 50.0 | 55.0 | 38 | 824x904x270 | 41 |
| QR-X06D | 600 | 90 | 242 | | 60.0 | 65.0 | 50.0 | 55.0 | 40 | 824x904x270 | 42 |
| QR-X08D | 800 | 100 | 410 | | 60.0 | 65.0 | 50.0 | 55.0 | 42 | 1116x884x388 | 68 |
| QR-X10D | 1000 | 150 | 510 | | 60.0 | 65.0 | 50.0 | 55.0 | 43 | 1116x1134x388 | 82 |
| QR-X13D | 1300 | 150 | 530 | | 60.0 | 65.0 | 50.0 | 55.0 | 45 | 1116x1134x388 | 82 |
| QR-X15DS | 1500 | 160 | 1000 | | 60.0 | 65.0 | 50.0 | 55.0 | 51 | 1600x1200x540 | 200 |
| QR-X20DS | 2000 | 170 | 1200 | | 60.0 | 65.0 | 50.0 | 55.0 | 53 | 1650x1400x540 | 225 |
| QR-X25DS | 2500 | 180 | 2000 | | 60.0 | 65.0 | 50.0 | 55.0 | 55 | 1430x1610x600 | 240 |
| QR-X30DS | 3000 | 200 | 2100 | | 60.0 | 65.0 | 50.0 | 55.0 | 57 | 1600x1700x640 | 270 |
| QR-X40DS | 4000 | 220 | 2400 | 380V/3N/50Hz | 60.0 | 65.0 | 50.0 | 55.0 | 60 | 1330x1725x1050 | 265 |
| QR-X50DS | 5000 | 240 | 3000 | 380V/3N/50HZ | 60.0 | 65.0 | 50.0 | 55.0 | 61 | 1660x1820x1050 | 280 |
| QR-X60WS | 6000 | 290 | 3600 | | 60.0 | 65.0 | 50.0 | 55.0 | 70 | 1660x1820x1050 | 310 |
| QR-X70WS | 7000 | 310 | 4200 | | 60.0 | 65.0 | 50.0 | 55.0 | 73 | 2060x1660x1168 | 360 |
| QR-X80WS | 8000 | 320 | 6000 | | 60.0 | 65.0 | 50.0 | 55.0 | 74 | 2060x1660x1168 | 382 |
| QR-X90WS | 9000 | 340 | 7500 | | 60.0 | 65.0 | 50.0 | 55.0 | 77 | 2310x1900x1200 | 500 |
| QR-X100WS | 10000 | 400 | 8000 | | 60.0 | 65.0 | 50.0 | 55.0 | 78 | 2310x1900x1200 | 534 |

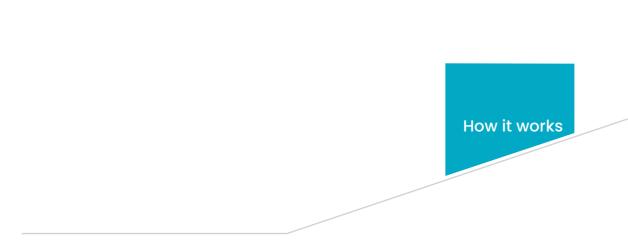
Notes: 1.Cooling test condition: indoor side 27°C DB, 19.5, WB; outdoor fresh air 35°C DB, 28°C; 2.Heating test condition: indoor side 21°C DB, 13, WB outdoor fresh air 5°C DB, 2°C; 3.The above data may be changed without notice for future improvement on quality and performance.

Heat

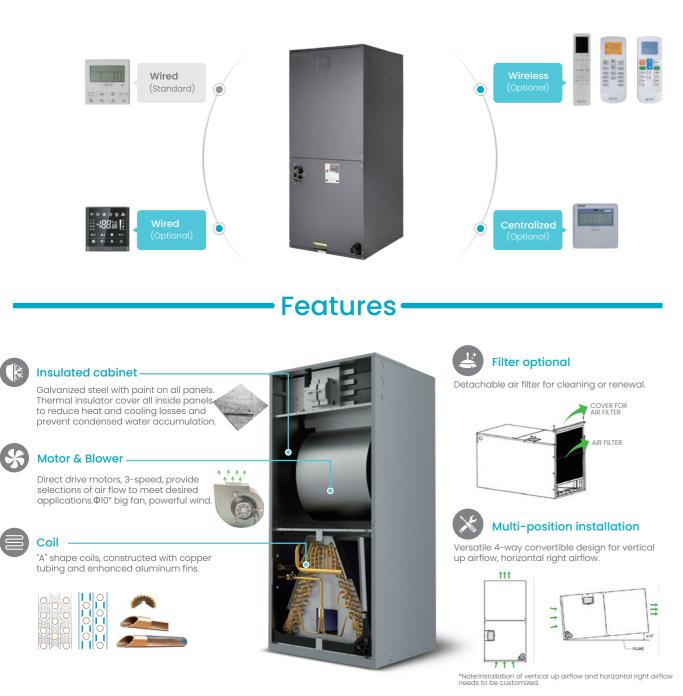




- Features -



Air Handler Unit



Specification -

| | | | Cap | acity | | Power | | flow | Sound | ESP | Dimensio | on(WxHxD) | Body | Weight | Cor | nnecting | g pipe | |
|-----------------|---------------|------|--------|-------|--------|-------|-------------------|--------|-------|-----|-------------|--------------|------|--------|--------|----------|--------|------------------------|
| Model name | Power type | Co | oling | Не | ating | input | All | now | Level | ESP | Body | Packing | Net | Gross | Gas | Liquid | Drain | Standard controller |
| | | kW | kBtu/h | kW | kBtu/h | w | M ³ /h | CFM | DB(A) | Ρα | mm | mm | kg | kg | mm | mm | mm | |
| V | ~ | | | ~ | ~ | ~ | ~ | ~ | ~ | ~ | V | V | ~ | × | ~ | ~ | | ~ |
| CMV-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 |
| CMV-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 |
| CMV-V160AH/HNR1 | 60Hz | 16.0 | 54.4 | 18.0 | 61.2 | 517 | 2500 | 1470.6 | 57~60 | 50 | 970x550x500 | 1030x560x595 | 48 | 52 | Ø15.88 | Ø9.52 | Ø20 | Wired Controller |

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

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

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

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





Wireless Controllers





Wired Controllers



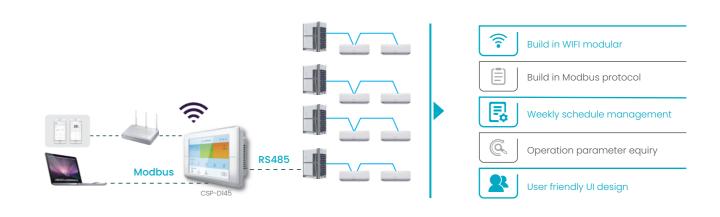
Touch Screen Wired Controller



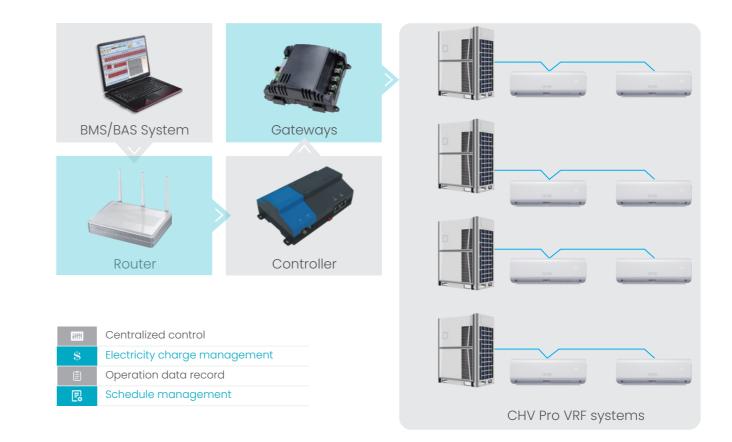
Simple Centralized Controller



Touch Screen Centralized Controller



CHV-NET(Centralized Control System)



Smart Manager

• Available on iOS and Android

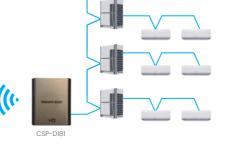


• Remote control via cloud server



Single unit controller or group control

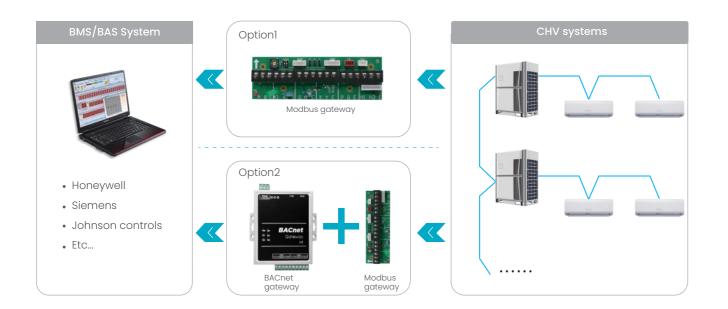
- Weekly schedule management
- 100 indoor units can be controlled
- Operation parameter enquiry



BMS Gateway

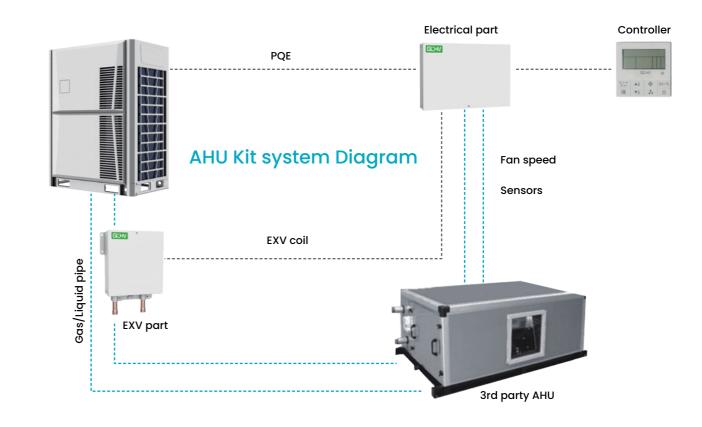
 Modbus gateway
 Independent Modbus Box or built-in with outdoor unit.

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



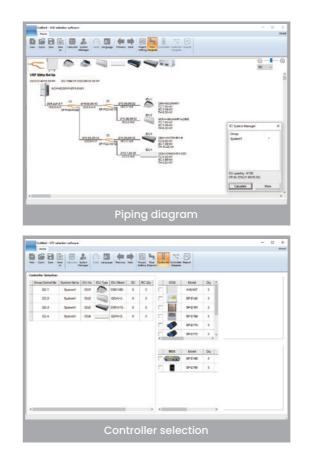
AHU Connection Kit

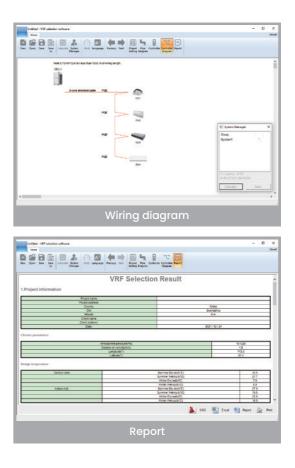




VRF Selection Software

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





PROJECTS



Volgograd Arena ,Important venue of the 2018 Russia World Cup, total VRF capacity 2400KW.



Nizhny Novgorod Stadium, Important venue of the 2018 Russian World Cup, total VRF capacity 1600KW.







PROJECTS



Main venue of the Universiade in Shenzhen, total VRF capacity 8000kW.





