Welcome to Condor Electronic Centralized Air Conditioning Solutions

Since its inception in **2006, Condor's Centralized Air Conditioning Business Unit** has been at the forefront of providing state-of-the-art **HVAC systems** that perfectly blend **performance, efficiency**, and **sustainability**.
With a deep-rooted expertise in **sales, engineering, installation**, and **after-sales service**, we pride ourselves on delivering tailored solutions that meet the unique **demands of our clients**.
Our unwavering commitment to **quality and innovation** ensures that we offer **energy-efficient** and **environmentally friendly solutions**, setting new standards in the HVAC industry.

At **Condor**, we don't just meet your expectations—we exceed them.
Explore the future of comfort with us today!

Please Scan the QR Code
To Get Our Office Contacts

Note:
Condor is committed to continuously improving its products to ensure the highest quality and reliability standards, and to meet local regulations and market requirements.
All features and specifications are subject to change without prior notice.
All images provided in this catalogue are used for illustration purposes only.

2025

T1 R410a

VRF Products Catalog

Condor Commercial HVAC Products

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www.condor.dz

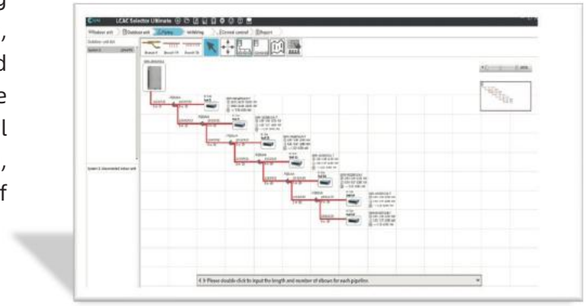
Version: VRF2025-Spring

Index

Technology Support

VRF Selector

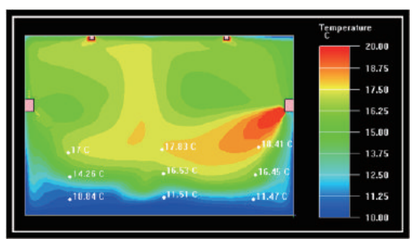
The selection software plays a crucial role in support the accuracy and efficiency of a project design and checking workflow. To meet the urgent demand for from our clients and installers, we have developed a smart, rapid, and versatile selection software for customers. This software automatically calculates and determines the most suitable unit and piping, optimizing the system by considering factors such as ambient temperature, operational site, reliability, and comfort. Additionally, the software enhances efficiency through visual modeling and intelligent fast wiring, significantly improving the speed of system design and setup.



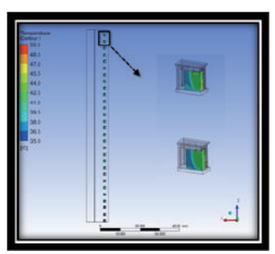
Simulation

We offers wind field and temperature field simulation computing services for our customers, utilizing CFD-Fluent technology. This advanced simulation tool is capable of modeling and calculating complex fluid flows, ranging from incompressible to highly compressible states. Based on the finite-volume algorithm applied to unstructured grids, CFD-Fluent includes gradient algorithms for both grid nodes and grid cells, ensuring precise and efficient simulations. Our expertise in areas such as transition and turbulence, heat transfer and phase transition, chemical reactions and combustion, multi-phase flows, and noise

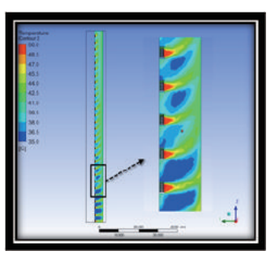
Simulated plane room temperature field distribution in a project



Simulated 3D room temperature field distribution in a project



Airflow simulation diagram

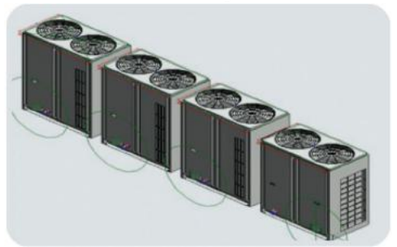


Building airflow simulation

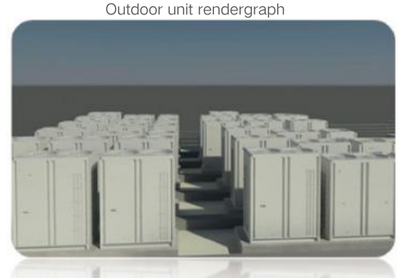
BIM

Our Support Center offers building information modeling (BIM) technical support for HVAC design in overseas projects, known as BIM-Revit. Currently, the Center has made significant progress in the research and development of 3D modeling for HVAC systems, unit data integration, HVAC system informatization, electromechanical system informatization, and system simulation operations using BIM-Revit. This enables the Center to provide comprehensive technical support to project owners, focusing on the visualization, refinement, and optimization of HVAC systems, while also enhancing production efficiency and reducing costs.

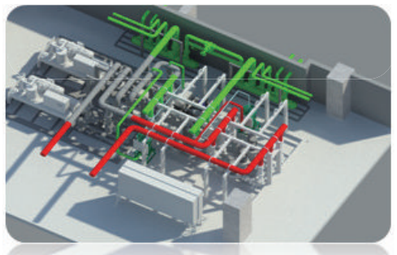
BIM model diagram



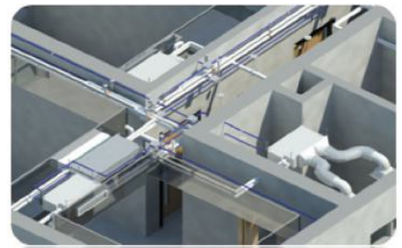
Outdoor unit rendergraph



Unit layout drawing

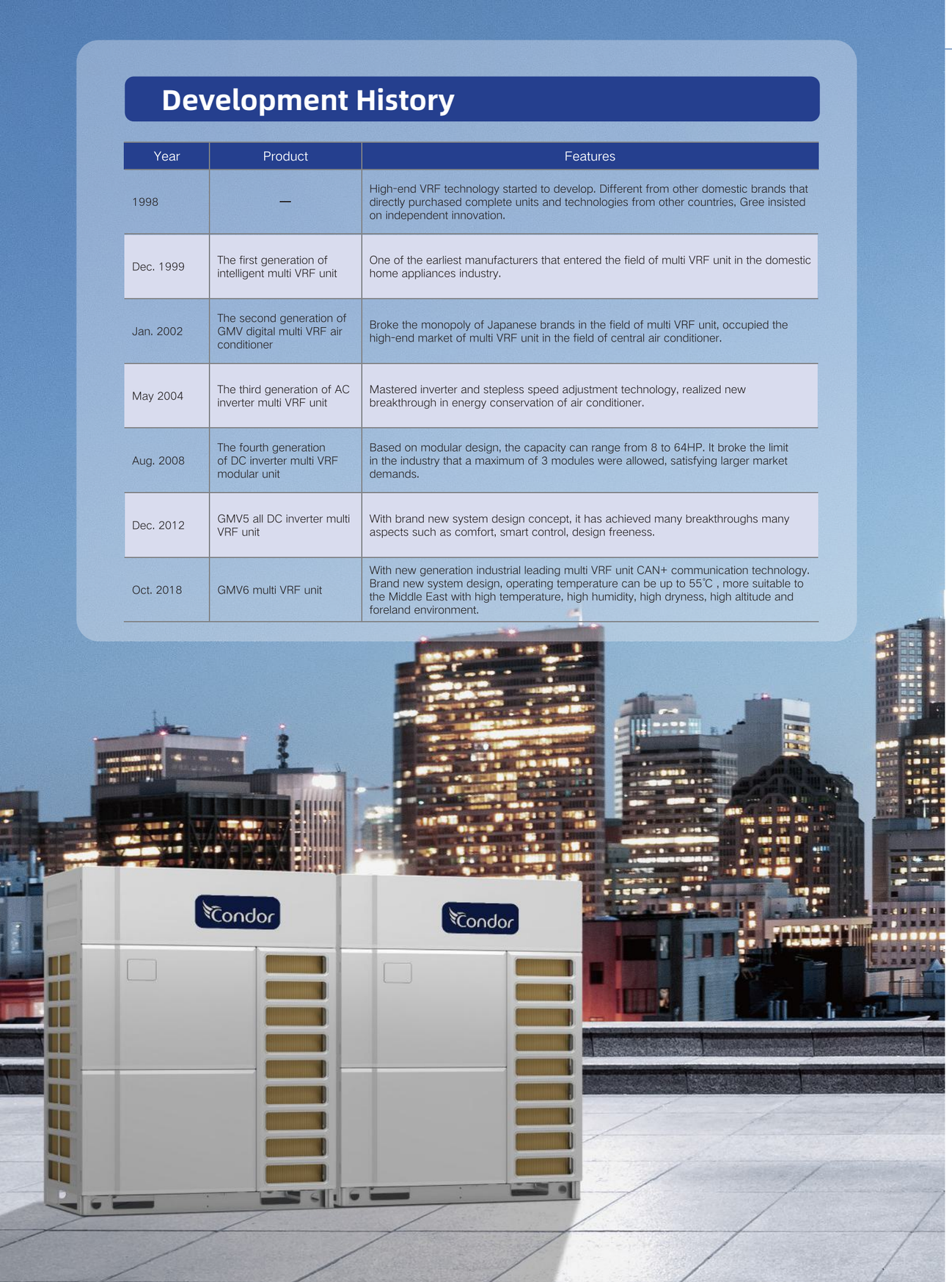


Installation effect diagram



Development History

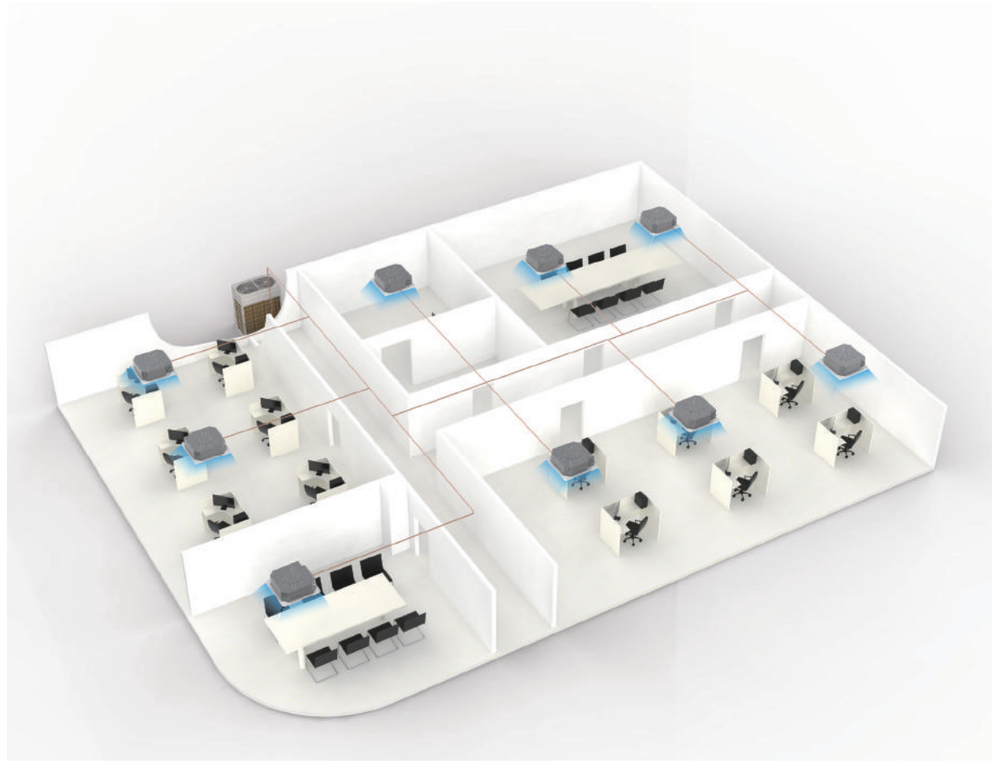
Year	Product	Features
1998	—	High-end VRF technology started to develop. Different from other domestic brands that directly purchased complete units and technologies from other countries, Gree insisted on independent innovation.
Dec. 1999	The first generation of intelligent multi VRF unit	One of the earliest manufacturers that entered the field of multi VRF unit in the domestic home appliances industry.
Jan. 2002	The second generation of GMV digital multi VRF air conditioner	Broke the monopoly of Japanese brands in the field of multi VRF unit, occupied the high-end market of multi VRF unit in the field of central air conditioner.
May 2004	The third generation of AC inverter multi VRF unit	Mastered inverter and stepless speed adjustment technology, realized new breakthrough in energy conservation of air conditioner.
Aug. 2008	The fourth generation of DC inverter multi VRF modular unit	Based on modular design, the capacity can range from 8 to 64HP. It broke the limit in the industry that a maximum of 3 modules were allowed, satisfying larger market demands.
Dec. 2012	GMV5 all DC inverter multi VRF unit	With brand new system design concept, it has achieved many breakthroughs many aspects such as comfort, smart control, design freeness.
Oct. 2018	GMV6 multi VRF unit	With new generation industrial leading multi VRF unit CAN+ communication technology. Brand new system design, operating temperature can be up to 55℃ , more suitable to the Middle East with high temperature, high humidity, high dryness, high altitude and foreland environment.



Why choose VRF Heat Pump System

Demand

In a system without external constraints, if user requires only cooling or heating, then the heat pump system is a good choice.



Low Cost

If there is only cooling or heating demand, a VRF heat pump system is recommended for it is cost-saving and easy to maintain.

Flexible

Because of the characteristics of the VRF system (One outdoor unit can be connected to multiple indoor units), indoor units in different areas can be controlled independently, which is very flexible in use compared to common air conditioners.

GMV6 Outdoor Units Lineup (H-X Series)

Series	Certification	Appearance
GMV6 (Heat Pump) (380-415V, 3N~ 50/60Hz)	EUROVENT CERTIFIED PERFORMANCE, CE	

Capacity Range, in HP								
8	10	12	14	16	18	20	22	24
●	●	●	●	●	●	●	●	●
26	28	30	32	34	36	38	40	42
●	●	●	●	●	●	●	●	●
44	46	48	50	52	54	56	58	60
●	●	●	●	●	●	●	●	●
62	64	66	68	70	72	74	76	78
●	●	●	●	●	●	●	●	●
80	82	84	86	88				
●	●	●	●	●				

● means basic model ● means combination models

* 1HP = 2.8kW = 9553 Btu/h

GMV 6 Features

1. High energy efficiency
2. Large air volume low noise fan blade
3. Multiple prevention technologies (corrosion prevention, lightning prevention, dust prevention, wind prevention, snow
prevention)
4. CAN+ communication technology
5. Intelligent control and management
6. Clean and healthy fresh air

GMV6 Outdoor Units Lineup (G-X Series)

Series	Certification	Appearance
GMV6 (Heat Pump) (380-415V, 3N~ 50/60Hz)	CE	

Capacity Range, in HP								
8	10	12	14	16	18	20	22	24
●	●	●	●	●	●	●	●	●
26	28	30	32	34	36	38	40	42
●	●	●	●	●	●	●	●	●
44	46	48	50	52	54	56	58	60
●	●	●	●	●	●	●	●	●
62	64	66	68	70	72	74	76	78
●	●	●	●	●	●	●	●	●
80	82	84	86	88				
●	●	●	●	●				

● means basic model ● means combination models

* 1HP = 2.8kW = 9553 Btu/h

GMV 6 Features

1. High energy efficiency
2. Large air volume low noise fan blade
3. Multiple prevention technologies (corrosion prevention, lightning prevention, dust prevention, wind prevention, snow
prevention)
4. CAN+ communication technology
5. Intelligent control and management
6. Clean and healthy fresh air

GMV6 Heat Recovery Outdoors (C-X Series)

Series	Certification	Appearance
GMV6 (HR Heat Recovery) (380-415V, 3N~ 50/60Hz)	EUROVENT CERTIFIED PERFORMANCE, CE	

Capacity Range, in HP								
8	10	12	14	16	18	20	22	24
●	●	●	●	●	●	●	●	●
26	28	30	32	34	36	38	40	42
●	●	●	●	●	●	●	●	●
44	46	48	50	52	54	56	58	60
●	●	●	●	●	●	●	●	●
62	64	66	68	70	72	74	76	78
●	●	●	●	●	●	●	●	●
80	82	84	86	88				
●	●	●	●	●				

● means basic model ● means combination models

* 1HP = 2.8kW = 9553 Btu/h

GMV 6 HR Features

1. Simultaneous cooling and heating
2. Hot water and floor heating
3. High energy efficiency -- heat recovery SCHE up to 9.0
4. Continuous heating
5. Clean and healthy fresh air
6. Intelligent control and management

GMV X Outdoor Units Lineup

Series	Certification	Appearance
GMV X (Heat Pump) (380-415V, 3N~ 50/60Hz	CE	

Capacity Range, in HP								
8	10	12	14	16	18	20	22	24
●	●	●	●	●	●	●	●	●
26	28	30	32	34	36	38	40	42
●	●	●	●	●	●	●	●	●
44	46	48	50	52	54	56	58	60
●	●	●	●	●	●	●	●	●
62	64	66	68	70	72	74	76	78
●	●	●	●	●	●	●	●	●
80	82	84	86	88	90	92	94	96
●	●	●	●	●	●	●	●	●
98	100	102	104	106	108	110	112	114
●	●	●	●	●	●	●	●	●
116	118	120	122	124	126	128		
●	●	●	●	●	●	●		

● means basic model ● means combination models

* 1HP = 2.8kW = 9553 Btu/h

GMV X Features

1.Large capacity: maximum 36HP for a single unit and 128HP for combination units.
2.Adopt high-efficiency low-temperature enthalpy adding technology and new type compressor with big capacity.
3.Large high-efficiency G-shape heat exchanger.
4.Maximum subcooling degree is up to 35°C.

High-efficiency and Energy-saving

High-efficiency enthalpy-adding inverter compressor, high-efficiency DC motor and new modular control way are adopted, which greatly improves the operation efficiency of the unit.

High-efficiency and Energy-saving

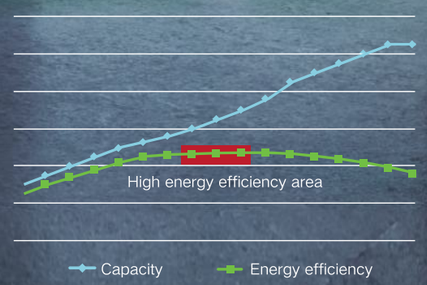
HPAC High-efficiency Alternate Control

GMV6 adopts high-efficiency alternate control method to intelligently adjust the distributing method according to the demand of indoor load, which has ensured the service life of the integrated module, and improved the overall operating energy efficiency at the same time.

The best matching features exist among the compressor, indoor heat exchanger, and outdoor heat exchanger. It can automatically match the capacity of indoor and outdoor heat exchangers, and adjust in real time according to operating situation.

GMV5

GMV6-HPAC control



◦ High-efficiency EVI Compressor

① High-efficiency EVI control technology

High-efficiency EVI compressor, which is developed according to the features of VRF unit, its 0-420Hz adjusting range can perfectly match with the whole unit, so as to excel the performance to the greatest extent.

② Release valve

Improving partial load energy efficiency, adapting to the condition of variable pressure ratio, upgrading compressor performance.

③ Improved asymmetric wrap

New asymmetric wrap is adopted and compressor efficiency is improved by reducing leakage and invalid suction superheat.

④ Dynamic oil balance structure

Advanced oil balance technology, with high reliability and flexible design without installation limit, which can realize parallel connection of compressors with different delivery capacity and revolving speed.

⑤ High speed

0~420Hz stepless inverter operation, wide adjustment range of capacity, precision can be up to 1Hz.

⑥ Oil pump filter

Filtrate the impurities to ensure the supplied oil is clean.

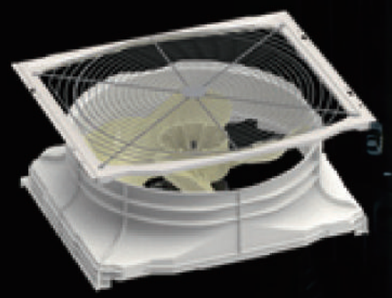
⑦ Positive displacement gear pump

Ensure necessary oil supply under the revolving speed, improve reliability of compressor.

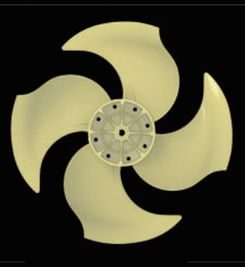
Large Air Volume and Low Noise Fan Blade

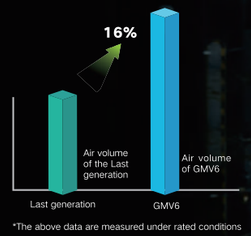
The “Reverse-S shape” tail design can effectively increase the working area of fan blades and greatly improve the air volume. The tail of the blade adopts the aircraft winglet design, which can effectively suppress the tip vortex caused by wing tip pressure difference and reduce noise.

The new air-out grille design increases the air supply area by 7.8%.



The"Reverse-S shape"tail design, with 4-blade control and separate design of blade pressure surface and suction surface, effectively increases the working area of fan blades and greatly improves the air volume.





*The above data are measured under rated conditions

Note: Applicable for some models.

Multiple Prevention Technologies

Multiple prevention technologies: to protect the unit from corrosion, dust, wind, lightning and snow; to prolong the service life of the unit; to suit different environmental conditions.

1. The heat exchanger adopts acid-proof and highly anticorrosive black aluminum fins.
   Neutral salt spray time is up to 2000 hours.

2. The sheet metal of the casing is coated with high weather resistance powder for corrosion prevention.
   Neutral salt spray time is up to 1000 hours.

3. The surface of controller is coated with special protection material, which has good dampproof, mildewproof and anticorrosive performance.

4. The grille received the treatment of phosphating and electrophoresis, and is coated with high weather resistance powder to prevent corrosion.

5. The external part adopts fasteners made of zinc-nickel alloy for better anticorrosive performance.

6. The anti-corrosion motor adopts stainless steel shaft, and electrophoresis for the outer case, with IP55 protection level*[2].

7. Outer sealing material of the coil adopts stainless steel and electrophoresis*[2].

8. The surface of the pressure vessel adopts the treatment of phosphating and is coated with high weather resistance powder to prevent corrosion.

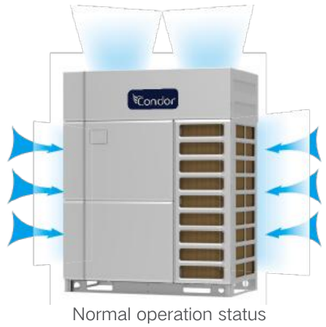
Note:
1. Applicable to GMV6 (GMV-**WM/H1-X) series. For special environments with acid, alkali and salt corrosion, the unit can be customized to provide more comprehensive protection. Please consult our sales representatives for more information.
2. Standard models GMV6(GMV-**WM/H1-X) do not have this anti-corrosion treatment but can be customized if needed.

Corrosion Prevention

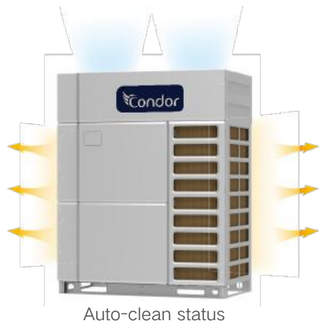
Multiple Prevention Technologies

Dust Prevention Function*

According to operating time of unit and real-time operating parameters, situation of heat exchanger can be estimated. When the accumulative dust of heat exchanger impacts the heat exchange efficiency, activating the backward operating function of fan can effectively remove the dust.



Normal operation status

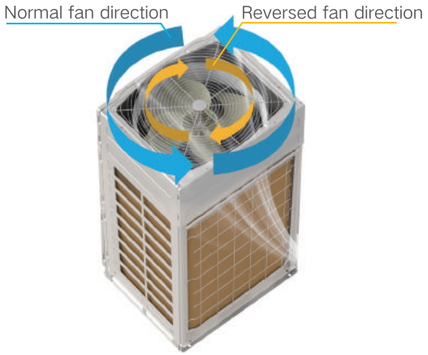


Auto-clean status

*This function should be customized.

Wind Prevention Function

Before the unit is turned on, if the fan conducts backward operation due to adverse wind, it will adopt dynamic braking to stop the backward fan, and then turn on the unit according to normal program.



Lightning Prevention Function

Central air conditioning system has lightning protection and anti-surge function, which can effectively prevent the impact on air conditioning system due to instant overvoltage or overcurrent, so as to protect the personal and property safety of user.

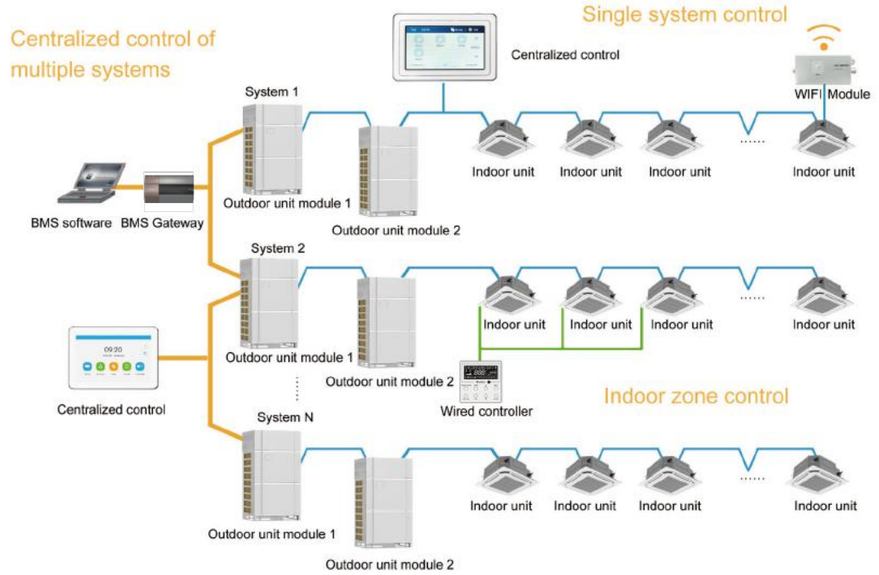
Snow Prevention Function

In order to prevent the influence of snow accumulated on the top of the outdoor fan, the unit will automatically turn on the fan to clear the snow and ensure normal operation.

CAN+ Communication Technology

Innovative Stratification CAN+ Structure with Multiple Master Networks

Considering that the application of an air conditioning system requires multiple nodes, multistep control and intelligent expansion, we originally developed the stratification CAN+ structure with multiple master networks, which makes it possible for the number of nodes in a single system to be increased relatively by 56% and the response time for centralized control to be shortened by hundreds of times.



First Formulated CAN+ Communication Protocol

It is the first time to formulate and standardize CAN+ communication protocol: two-stage network universal design, data can be directly transferred; functional code, network address, data field and related core concepts are developed, realizing grading, classification and real-time transfer of communication data, satisfying the demand of intelligent expansion.

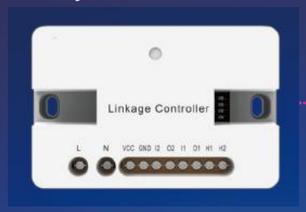
The First Nonpolarity CAN+ Communication Chip

CAN+ self-adaptive networking technology includes single chip automatic nonpolarity technology and all network automatic address distribution technology, which can realize automatic networking for hundreds of nodes of large multi VRF unit within 10 seconds, the newly increased nodes can be activated instantly once it is inserted, greatly improving the networking speed and expansion capability.

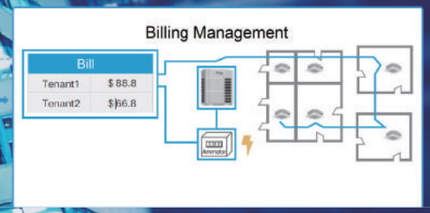
Intelligent Control and Management

New generation intelligent management and control solution, satisfying various demands of users.

Key Card Wired Controller



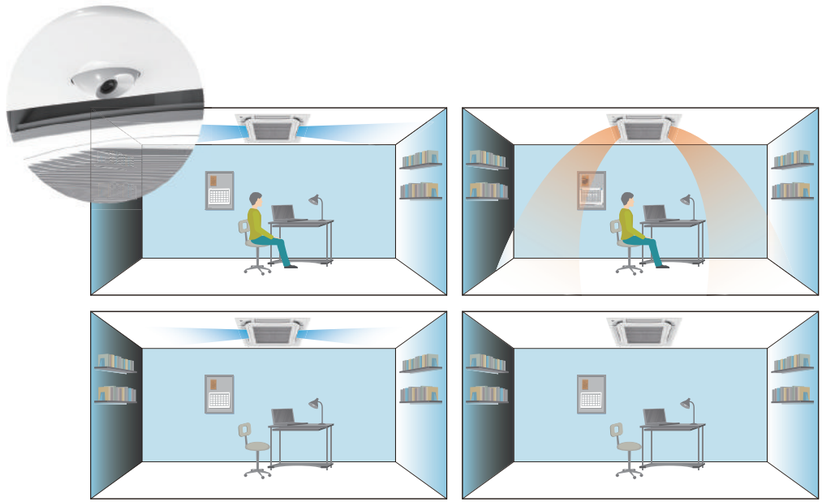
Centralized Controller



Intelligent Control and Management

Intelligent Sensing Function

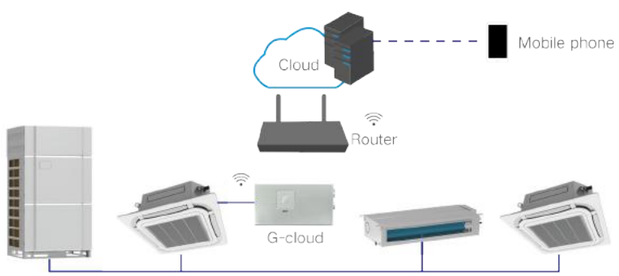
Intelligent sensing function control, 360° panoramic temperature field identification; high precision of temperature field identification, achieving cold air prevention, warm air surrounding; multiple intelligent control, more well-proportioned temperature field, more energy-saving operation.



*This function should be customized.

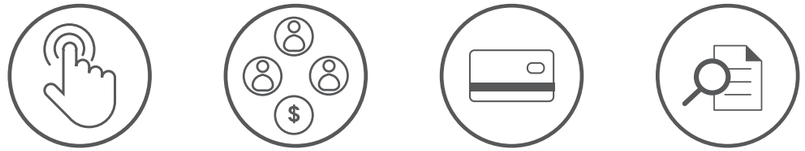
Cloud Control

It is a compact WiFi controller, which connects our cloud server to the corresponding interface of any one of the multi VRF indoor units. Use mobile phone to download the our APP, after simple network configuration, the multi VRF air conditioner can be easily controlled by the mobile phone anytime and anywhere. One set of multi VRF system only requires one sets of device to realize the control of all indoor units under the system via mobile phone.



control up to 80 sets of indoor units within one system

Intelligent Management



Centralized Control: Our Centralized Control System allows for seamless, one-button control of all air conditioners in a building, providing unified management and simplifying operations. This centralized controller streamlines the process, saving both time and energy, while ensuring efficient and convenient control of the building's HVAC systems.

Long-distance Control: Distributed Centralized Control System

Restriction management, reducing waste of energy due to misoperation: restriction management can set restriction on the indoor unit to limit on/off status, temperature range, and modes.

Billing System: Our Billing System ensures a reasonable distribution of electricity charges for multi-VRF units, offering clear management and accurate billing. Through a unique calculation method, the system efficiently allocates energy consumption and electricity fees. To meet the needs of apartment and shop rentals, it features a prepaid automatic withholding mode that helps prevent financial losses for landlords. Additionally, the system can generate exportable accounting bills, energy consumption reports, and energy-saving strategy recommendations. With cloud-based data backup, the system ensures quick restoration of engineering and electricity data when needed.

Clean and Healthy Fresh Air

GMV6 can be matched with fresh air indoor unit and ERV system. Meanwhile, fresh air accessories, high-efficiency filter and other clean and healthy fresh air solutions are optional, to achieve dual functions of air conditioning and fresh air, and improve the indoor air quality obviously.

Clean and Healthy Fresh Air

Fresh Air System

Fresh air system satisfies multiple indoor fresh air supply demands.

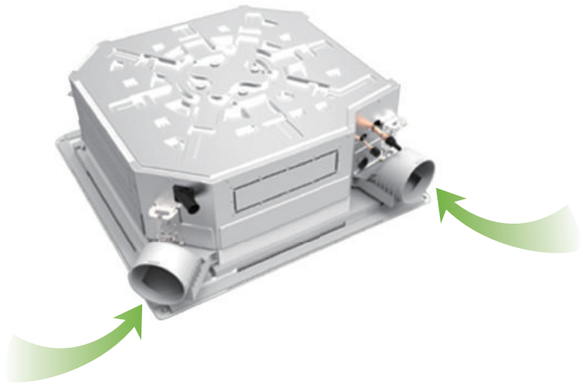
Less investment: Combine air conditioning system and fresh air ventilation system, undertake partial fresh air load and reduce the initial investment of air conditioning equipment.

Less operating cost: By adopting DC inverter technology, output of refrigerant can be adjusted according to actual situation, ensuring stable air supply and avoiding small load and large power.

Less installation space: Indoor unit links with VRF fresh air indoor unit, reducing outdoor installation space.

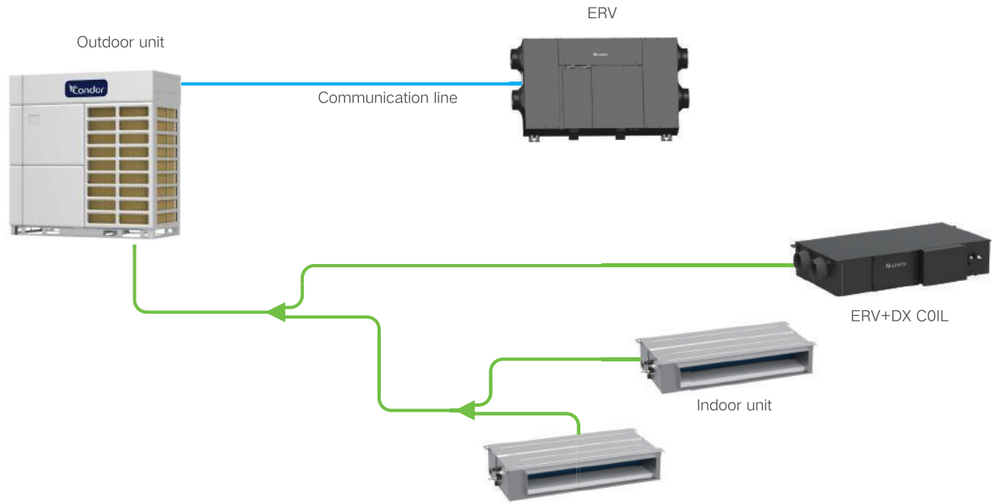
Fresh Air Accessory

The cassette type unit can work with fresh air accessories to efficiently introduce 8%~10% outdoor fresh air.



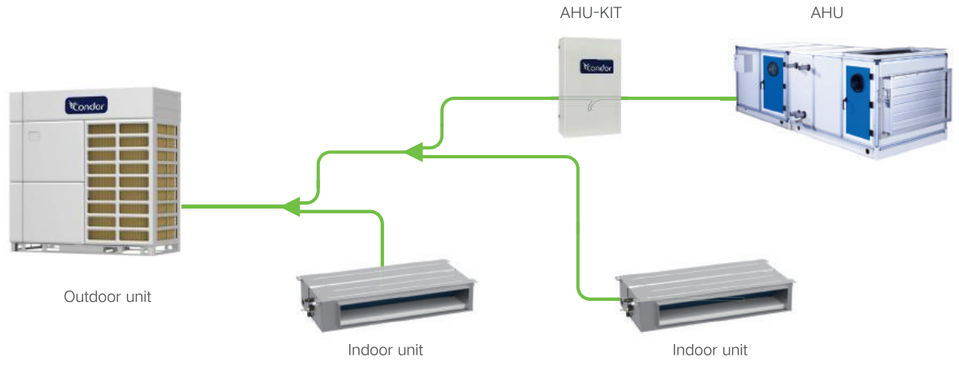
ERV System

GMV6 system can connect to ERV and ERV+DX COIL, which can realize air conditioning with fresh air ventilation.

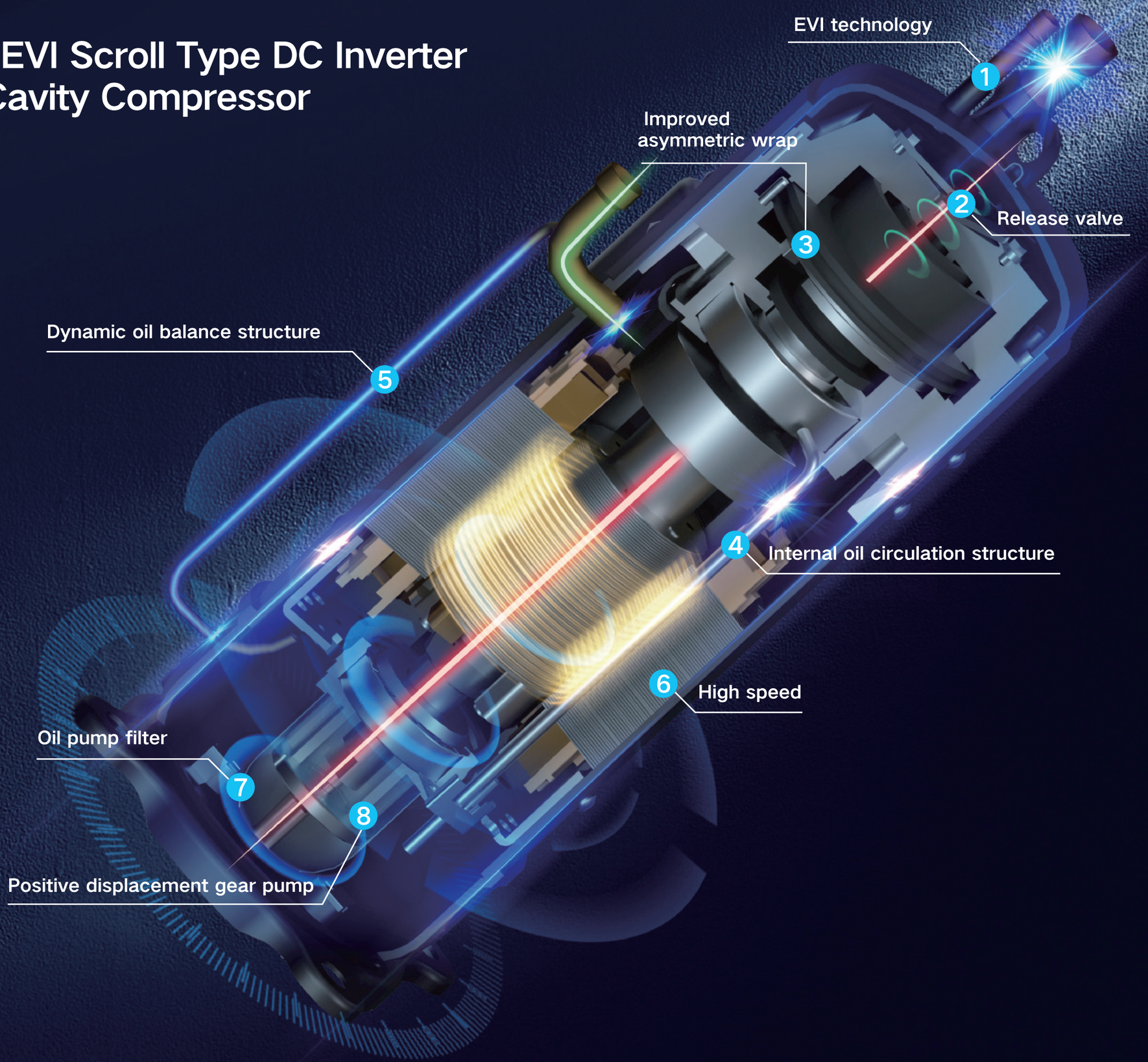


Clean System

Gree direct-expansion air handling unit can be connected to Gree VRF system, so that the air handling unit is with the functions of VRF system and can meet the cooling/heating requirement in large-scale spaces. This air handling unit can be equipped with purification devices with various filter grade for meeting the purification requirements of different occasions.



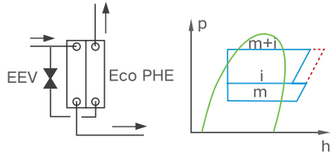
High-efficiency EVI Scroll Type DC Inverter High-pressure Cavity Compressor



High-efficiency Enthalpy Control Technology

High-efficiency Enthalpy Compressor

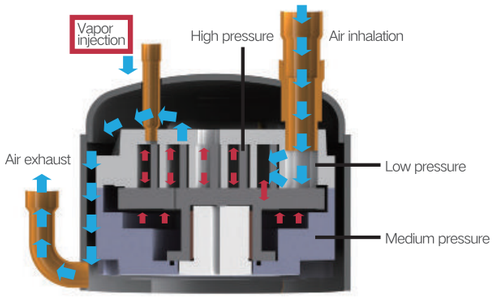
High-efficiency enthalpy compressor is developed according to the features of VRF unit, its 0-420Hz adjusting range can perfectly match with the whole unit; so as to excel the performance to the greatest extent.



High-efficiency EVI Scroll Type DC Inverter High-pressure Cavity Compressor

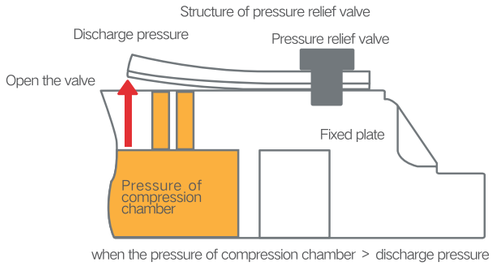
① EVI Technology

Reinforce system capacity, widen operating range and accelerate heating.



② Release valve

Improving partial load energy efficiency, adapting to the condition of variable pressure ratio and upgrading compressor performance.



③ Improved asymmetric wrap

New asymmetric wrap is adopted and compressor efficiency is improved by reducing leakage and invalid suction superheat.

④ Internal oil circulation structure

Internal circulation of lubricating oil to reduce over-heat losses and oil discharge rate and to improve efficiency and reliability.

⑤ Dynamic oil balance structure

Advanced oil balance technology, with high reliability and flexible design without installation limit, which can realize parallel connection of compressors with different delivery capacity and revolving speed.

⑥ High speed

0~420Hz stepless inverter operation, wide adjustment range of capacity and precision can be up to 1Hz.

⑦ Oil pump filter

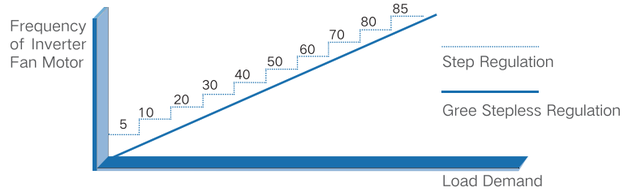
Filtrate the impurities to ensure the supplied oil is clean.

⑧ Positive displacement gear pump

Ensure necessary oil supply under the revolving speed to improve the reliability of compressor.

Sensorless DC Inverter Fan Motor

Adopt the DC inverter motor with high back electromotive force to realize stepless speed adjustment within 5~85Hz, the precision is 1Hz, with low operating current, low motor input power, and high efficiency.

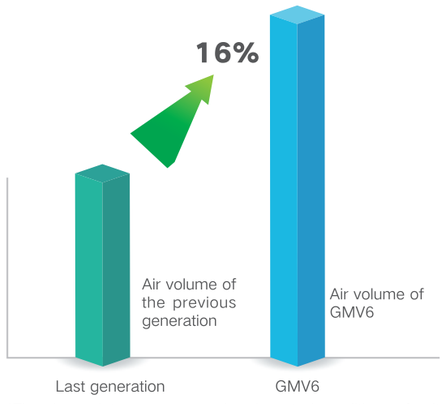


Large Air Volume and Low Noise Air Duct

"Reverse-S shape" tail design can effectively increase the working area of fan blade, greatly improving the air volume. The blade tail adopts winglet design of the aircraft to effectively suppress the blade tip vortex caused by the pressure difference of wing tip and reduce the noise.

*China Patent 201820495665.8 Axial Fan Blade and Air Conditioner

*Applicable for some models.



*The above data are measured under rated conditions of unit

High-efficiency Heat Exchanger Design

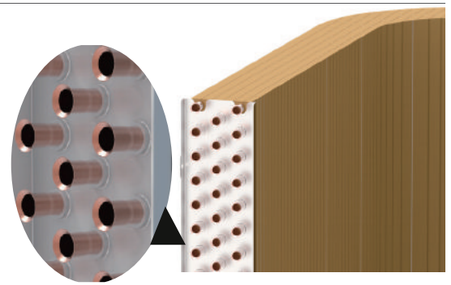
G-shape Integrated Heat Exchanger

Molded at one time, the G shape integrated heat exchanger can improve space utilization and increase heat exchanger area and heat exchange efficiency.

*Note: Applicable for some models.

Multi-row Small Diameter Design

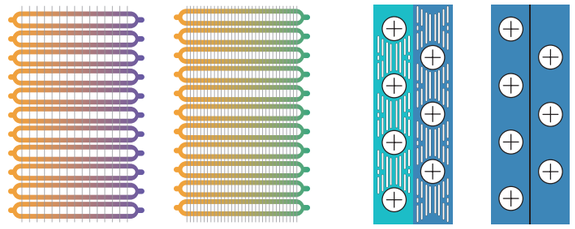
The refrigerant pipe adopts φ7mm and 3-row design, which can reduce the flowing resistance of refrigerant inside the pipe and effectively increase the heat exchange area of refrigerant, so as to optimize and improve the heat exchange efficiency.



*Note: Applicable for some models.

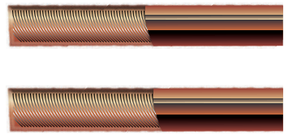
Small Pitch Corrugated Heat Exchanger Fins

Small pitch corrugated fins are used to increase the effective area between fins and the air, for more sufficient heat exchange of refrigerant and higher heat exchange efficiency.



Internal Screw Thread Design of Copper Tube

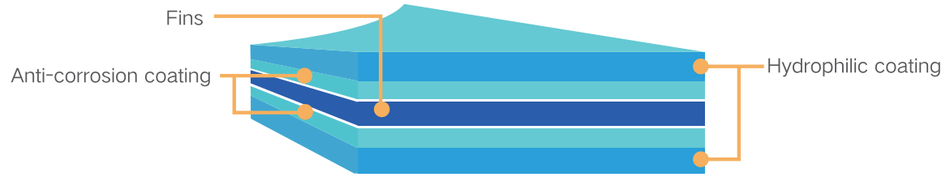
The refrigerant pipe adopts internal screw thread design to increase the contact area with the refrigerant, optimize the turbulent state of refrigerant flow and improve the heat exchange efficiency.



Internal screw thread high-efficiency heat exchange tube

Multi-functional Heat Exchanger Fins

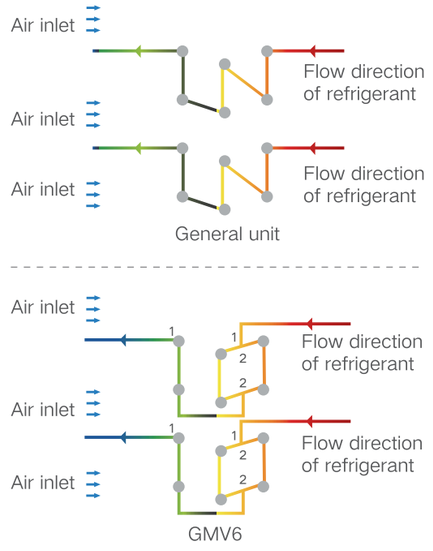
The heat exchanger fins adopt double-sided double-effect coating and hydrophilic membrane design so that the unit is not easy to get frosted and the condensate water or water from defrosting can flow down more quickly; the anti-corrosion coating isolates the pollutants and dust from air to protect the fins, with stronger corrosion resistance and better heat exchange effect.

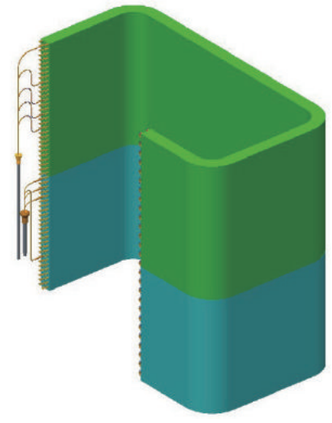


Double coating heat exchange fins structure

Divisional Heat Exchange Flow Path

According to the feature of wind field, the flow path of heat exchanger adopts divisional design for more reasonable flow division. Design according to 1-2-2-1 flow path for higher exchange efficiency.





Multiple Energy-saving Modes

With the deepening of energy conservation and emission reduction, and the increasing requirements for urban electricity consumption, especially during the peak season of electricity consumption in summer, many cities will issue corresponding electricity curtailment measures. GMV6 has a variety of operating modes for users to choose, to meet the city's peak power consumption and power limit requirements.

Capacity Priority Mode

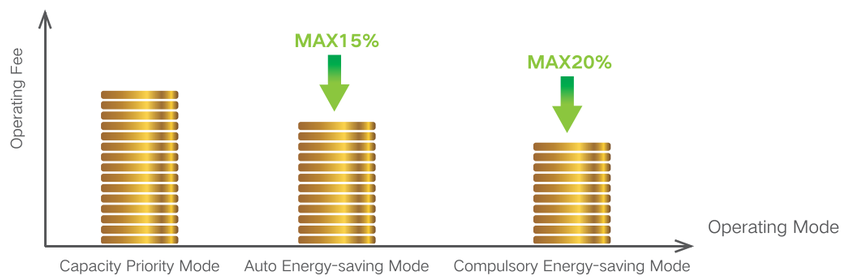
When the power supply is sufficient, it will satisfy the using capacity demand in priority. This mode is default mode.

Auto Energy-saving Mode

When this mode is activated, the system will automatically adjust the control parameters according to operating status, and automatically balance the capacity and energy consumption to realize the minimization of bilateral impact.

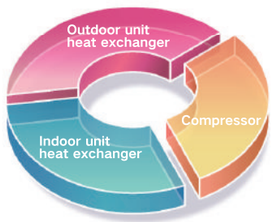
Compulsory Energy-saving Mode

Compulsorily limit the output of outdoor unit to satisfy the using capacity demand in priority. 90% and 80% capacity proportion can be selected to limit the output according to the power consumption of unit and user demand.



HPAC High-efficiency Alternate Control

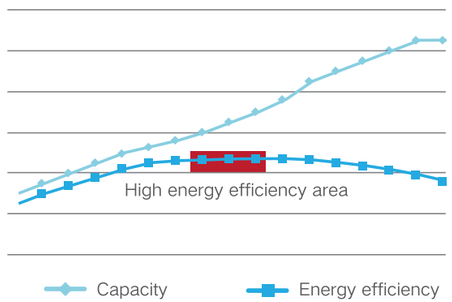
GMV6 adopts high-efficiency alternate control method to intelligently adjust the distributing method according to the demand of indoor load, which has ensured the service life of the integrated module, and improved the overall operating energy efficiency at the same time.



The best matching features exist among the compressor, indoor heat exchanger, and outdoor heat exchanger. It can automatically match the capacity of indoor and outdoor heat exchangers, and adjust in real time according to operating situation.

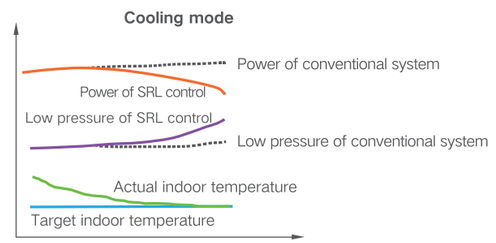
GMV5

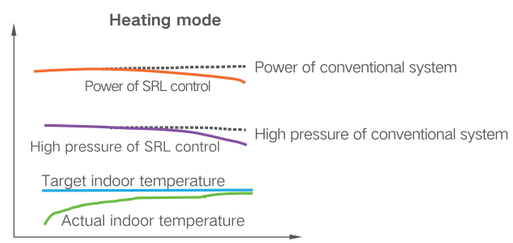
GMV6-HPAC control



SRL(Self-reaction Load)Self-adaptive Control

SRL (Self-reaction Load) can intelligently detect and control pressure and temperature of system refrigerant according to user status and indoor temperature variation, so as to automatically adapt to indoor cold/heat load balance control of energy conservation.



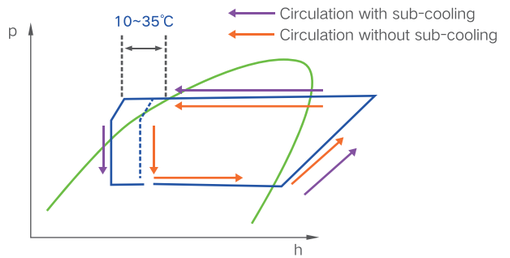


Variable Sub-cooling Design

With new generation of high-efficiency plate type sub-cooler and variable super-cooling degree control method, the maximum sub-cooling degree can reach 35℃ , the unit 's operation and engineering matching are greatly improved, and the effect is more obvious.

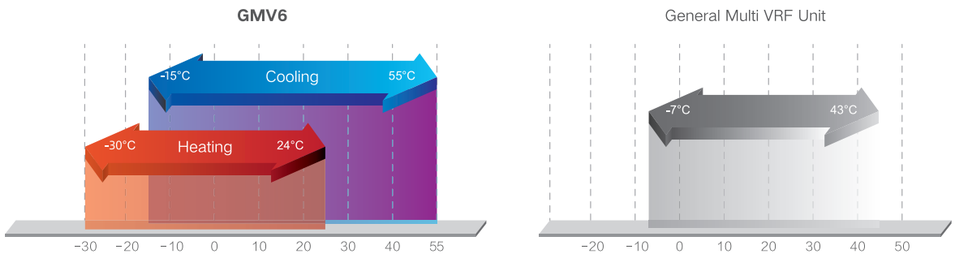
Problems with fixed sub-cooling and excessive sub-cooling:

With fixed sub-cooling degree, output of the unit cannot adapt to changes in load. When the system conducts excessive sub-cooling, performance of the whole unit is reduced, degree of superheat for the exhaust of compressor is insufficient, and the reliability is reduced



Wide Operation Range

-30℃-55℃ stable operation to provide users with comfortable environment in both cold and hot weather, operating ambient temperature for cooling can be as low as -15℃ .



Note:
1. The maximum operating temperature in cooling is 55℃ while the minimum operating temperature in heating is -30℃ . As different series have different operating ranges, please refer to the corresponding technical information.
2. Cooling at -15~-5℃ is conditional. Please inquire our engineers for more information. Generally, the lowest operating temperature for cooling is -5℃ .

Integrated Mainboard

Adopt miniaturized design and new high-efficiency process to reduce the area of main board by 40% and the occupied space, increase the power density of inverter, and realize the diversification of functions.

Intelligent Design

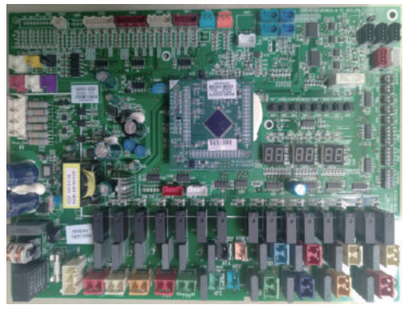
Low power consumption control, auto address allocation, auto commissioning, error memory and inquiry;

High Reliability Design

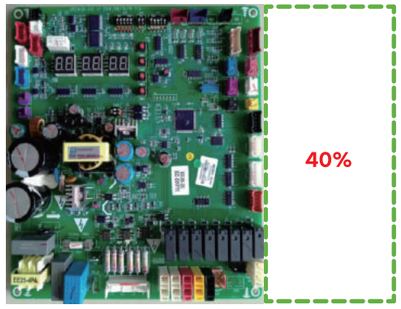
It is designed with wide voltage protection, default phase protection, overload protection, anti-surge protection, anti-static protection and so on. Together with advanced moisture-proof, dust-proof and anti-corrosion design, the system is more stable and reliable.

Advanced Production and Inspection Technology

The controller mainboard undergoes a series of strict production inspection processes such as SMT processing—AOI optical inspection—ICT online inspection—FCI functional test—DCT test and vibration and stress test. The rigorous manufacturing and inspection process ensure that the control mainboard can withstand high temperature and high humidity, abrasion and drop and other harsh environments.



GMV5



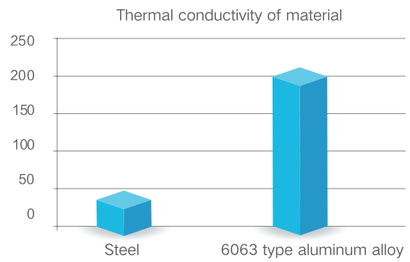
GMV6

Integrated High-efficiency Heat Dissipation Electric Controller

Main body of electric box is made of 6063T5 aluminum alloy material with high thermal conductivity (the heat dissipation capacity is 4.5 times that of conventional steel plates). The integrated structure design reduces the overall volume by 35%. Installation and maintenance are more convenient.

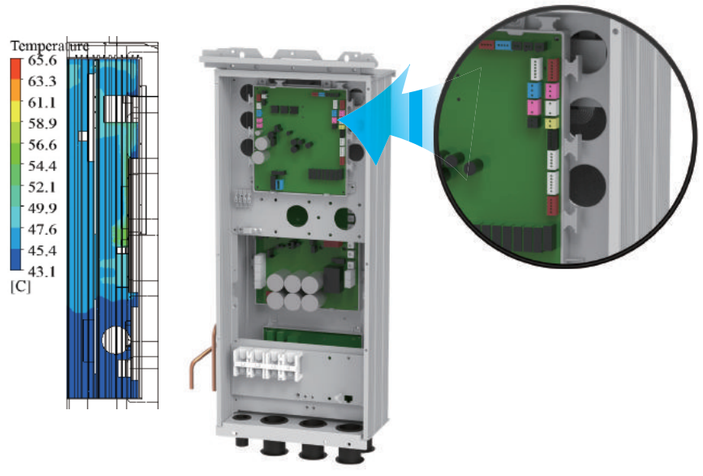
Other (sheet metal structure)

GMV6(Aluminum alloy)



*Chinese Patent for Utility Model No. ZL201720497732.5 Outdoor unit, Electric Box and its Box Subassembly of Air Conditioner.
Note: Aluminum control box is not applicable for GMV6(GMV-**WM/G-F).

The main body of electric box adopts refrigerant for heat dissipation, cooperates with high thermal conductivity aluminum alloy material, and uses thermal simulation design to optimize the layout of inverter power components, thus reducing the internal temperature of inverter electric box by about 8℃ , and improving the reliability of inverter components of large-capacity inverter compressor.



Quiet and Comfortable Experience

GMV6 adopts multiple professional noise-reduction technologies to improve the operation of the unit and create a quiet and comfortable environment.

Condor Commercial Air Conditioners --- VRF GMV6 & X Outdoors

Multiple Professional Noise Reduction Technologies

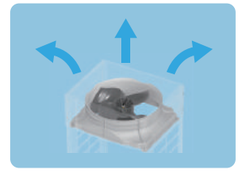
① Large Air Volume and Low Noise Fan Blade
Reverse S-shape tail design and aircraft winglet 4-blade design to achieve large air volume and low noise.

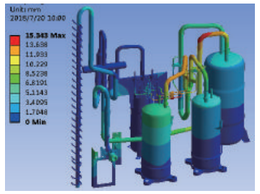
③ Intelligent Noise Reduction Converter
IGBT adopts exciting voltage and control carrier frequency switching technology to actively reduce electromagnetic noise.

⑤ Quiet Throttling Component
The quiet expansion valve with special structural design meets the needs of pressure-reducing flow distribution and can minimize the throttle noise.

⑥ Enthalpy-adding Pulsation Noise Reduction
Design a special buffer to reduce the impact noise of refrigerant pulsation on the pipeline when spraying enthalpy by 90%.

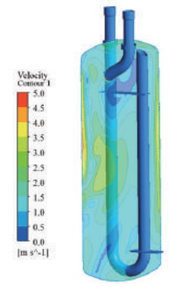
② New Streamline Grill and Immersed Layout Air Duct
The general air duct system of unit goes down to form an immersed layout, which can effectively reduce the fan noise.





④ Pipeline Simulation Shock Absorption Design
Pipeline is designed based on ANSYS to effectively reduce the vibration of pipes.

⑦ Quiet Gas-liquid Separator
It is a special low-noise and large-capacity gas liquid separator. The shape and angle of the gas-in and gas-out tubes are specially designed to reduce noise.



⑧ Sound Absorption and Sound Insulation Design of Compressor
Adopt compound material with high sound absorption and insulation effect to reduce the noise of compressor effectively.

Sound absorption material

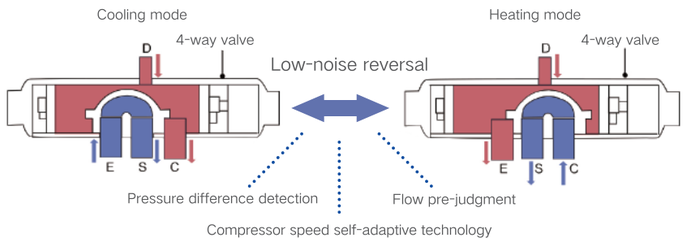
Metal sound insulation cover

*Configuration of some models

Low-noise Operating Technology

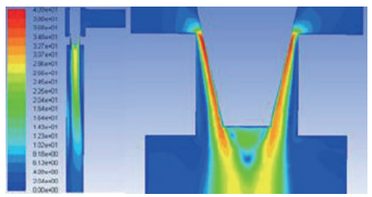
Low-noise Reversing Control Technology

The 4-way valve adopts low-frequency reversing design. Through the detection of reversing pressure difference and the prediction of flow, the compressor speed is adjusted accordingly during reversing, for small pulsation of refrigerant flow and effective noise reduction. The reversing control technology can not only improve the reliability of the 4-way valve action but also improve the comfort degree of the unit.



Refrigerant Flow Noise Reduction Technology

GMV6 adopts three refrigerant flow noise reduction technologies for overall control to further improve the operation. The gas-liquid two-phase refrigerant encounters throttling parts or elbows and abrupt cross-sectional areas of the flow channel during the flow process, turbulence will increase due to pressure changes and vortex shedding, cavitation noise and vortex noise are easily generated in the pipeline, and the abnormal sound of the noise will accelerate and deteriorate with the increase of the two-phase status.



Refrigerant Status Control

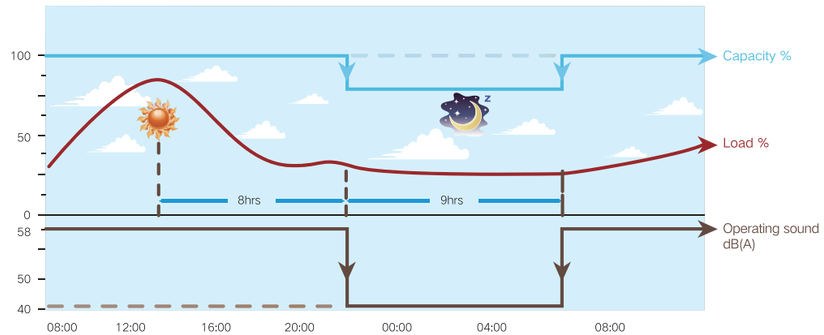
According to the mechanism of refrigerant flow noise, high-efficiency sub-cooling and sub-heating technologies are used in cooling and heating operation to fundamentally control the single-phase state of the refrigerant in the flow process.

Quiet Technology

13 Quiet Modes

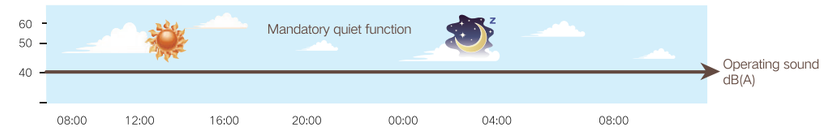
Night Quiet Function

The system can record the highest outdoor temperature. At night, the system will automatically turn to quiet mode. There are 9 quiet modes which can be set according to actual needs. For example, the unit can automatically enter night mode after working for 8 hours, and resume to normal operating mode after 9 hours.



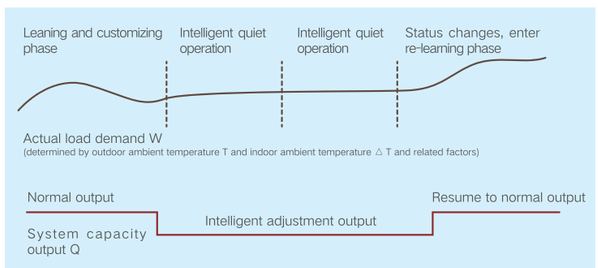
Mandatory Quiet Function

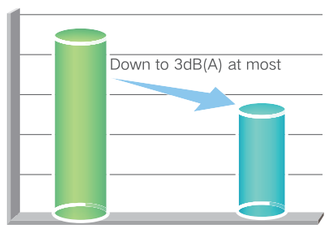
When the unit is installed in an environment with high noise requirements, it needs to operate silently during the day or night. Then you can choose three mandatory settings of quiet modes to ensure that the unit operates in low noise mode at any time, and the noise value can be as low as 40dB (A).



Intelligent Quiet Function

The unit can learn and customize user habits, and at the same time memorize the characteristics of user's habits. According to the user's using habit and actual load, it can automatically determine the output capacity of the system in the next 24 hours to achieve automatic quiet operation.



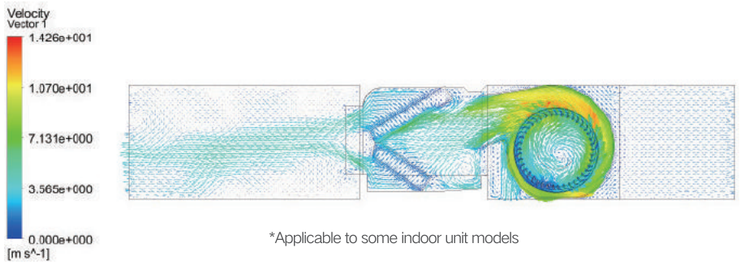


* Internal measurement value.

Indoor Unit Quiet Technology

Indoor Quiet Air Duct Design

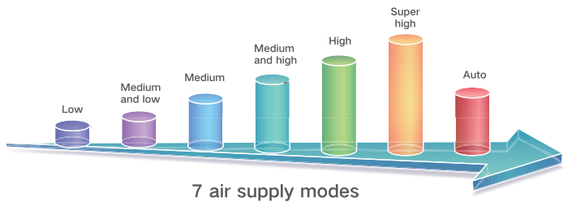
Heat exchanger of indoor unit adopts V-shape design for even and smooth air flow to create a quiet and comfortable environment.



*Applicable to some indoor unit models

7 Fan Speeds for Selection

The indoor unit has 6 fan speeds (super high, high, medium and high, medium, medium and low, low) and auto fan speed for selection to satisfy different user demands.

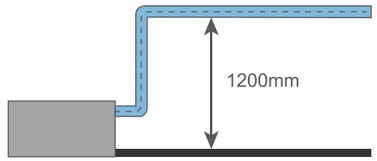


7 air supply modes

Note: applicable to partial DC motor models

Low-noise High Delivery Lift Water Pump Design

The indoor unit is equipped with a quiet water pump with delivery lift up to 1200mm, solving the drain problem of unit in low floors, with high engineering adaptability.



DC Motor Design

The indoor unit of GMV6 adopts DC motor design to realize stepless adjustment of revolving speed for lower noise operation. Auto quiet mode of indoor unit can be set via the wired controller and the unit will activate auto quiet function according to indoor temperature and the activity of occupants. Noise is as low as 22dB(A).

small talk from a distance of 1.5m | during quiet operation | sound regulation room | reading room | office

Stable and Reliable Operation

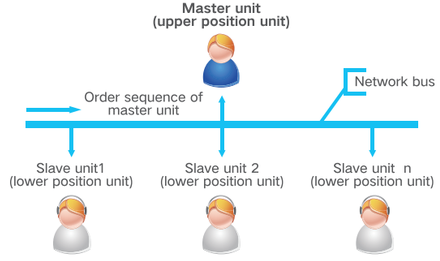
GMV6 adopts CAN+ communication, multiple oil circuits control and other technologies, which greatly improve the stability and reliability of the unit.

CAN+ Communication Technology

Current Situation for Communication Technology of Multi VRF Unit Industry

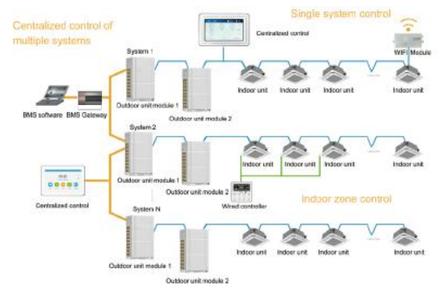
In the field of commercial VRF, as the installed capacity of the system increases, the number of connected indoor units also increases. Thus, the multi-system integrated control requires a highly stable communication network.

The current air conditioning communication technology adopts master-slave polling mechanism, which has the technical bottlenecks with low reliability, poor real-time performance, and poor extendibility, which restrict the development of intelligence; slow response of centralized control and low efficiency of control; communication is susceptible to interference, resulting in abnormal operation; expansion of functions and number of nodes are difficult.



Innovative Stratification CAN+ Structure with Multiple Master Networks

Considering that the application of an air conditioning system requires multiple nodes, multistep control and intelligent expansion, we originally developed the stratification CAN+ structure with multiple master networks, which makes it possible for the number of nodes in a single system to be increased relatively by 56% and the response time for centralized control to be shortened by hundreds of times.

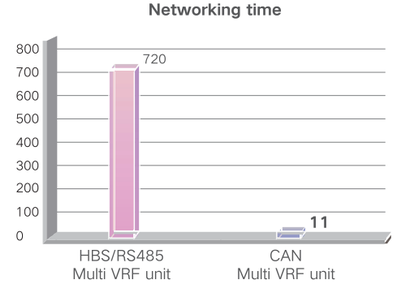


Technical Effect		CAN+ Network Structure	Traditional Network Structure
Real-time capability of interaction	Communication cycle of single system	<500ms	About 5s
	Preferential response	Microseconds	Seconds
	Centralized control response time	6s	10min
Reliability of interaction	Error isolation	Automatic	No
	Impact of node malfunction	Not rely on any node	Totally rely on master unit
	Sub-net scale	80 (it should be customized if over 80, 100 sets can be customized at most)	64
Expansibility	Intelligent equipment	Free access	Require bridge connection

First Formulated CAN+ Communication Protocol

It is the first time to formulate and standardize CAN+ communication protocol: two-stage network universal design, data can be directly transferred; functional code, network address, data field and related core concepts are developed, realizing grading, classification and real-time transfer of communication data, satisfying the demand of intelligent expansion.

Full network automatic address allocation technology: the protocol supports dynamic IP automatic allocation and full network addresses automatic offset, which realizes large-scale air conditioning network automatic networking without commissioning. The networking time is relatively shortened by more than 60 times, ensuring fast network distribution and free access to multiple online devices.



The First Nonpolarity CAN+ Communication Chip

Good Expansibility

- Instant use: new device can be accessed freely, with flexible engineering configuration;
- Centralized control: two-stage CAN+ communication network structure, no bridge device is needed between the systems, and the centralized control equipment can control up to 16 systems.

High-efficiency and Reliable

- Innovatively integrate the air conditioning control business with the bus arbitration mechanism to achieve second-level response of large centralized control system;
- With fault isolation function, the faulty node quits actively, and the network is not affected by the faulty node.

Convenient Installation Commissioning

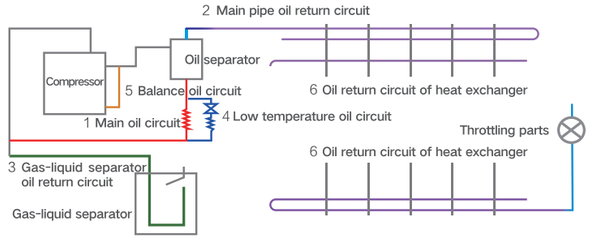
- With automatic addressing function, the system automatically assigns addresses without manual DIP switch setting and networking, saving time and effort;
- The interface adopts non-polar design. Engineering wiring does not need to consider the positive and negative poles, which is safe and reliable.

Precise Oil Control for Stable Operation of Compressor

Oil Return Control Technology

Multiple Oil Circuits Management

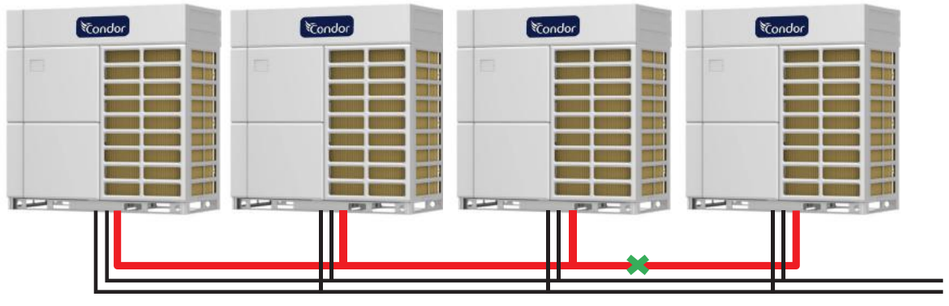
Six oil circuits ensure smooth and reliable oil passage.



*The above data is the test value of our company

Self-balancing Control Without Oil Balancing Tube

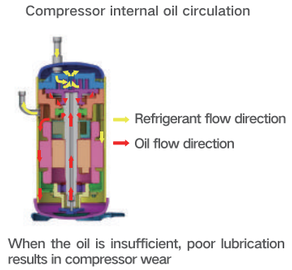
Advanced oil balancing control method, no external oil balancing pipeline is required between modules, and the installation is simple and fast. By collecting and calculating the capacity output and threshold conditions between each module, the distribution of refrigeration oil between the modules is automatically controlled to ensure stable operation of the system.

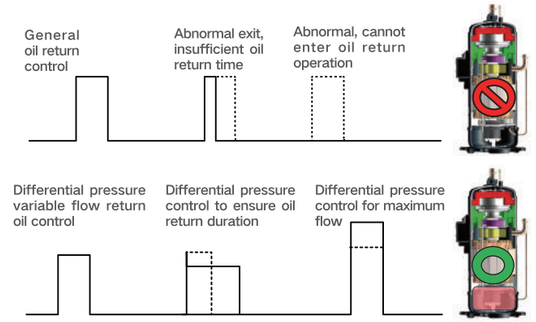


China Patent No. 201510307364.9 “Oil Balancing Control Method of Air Conditioning System”

Pressure Difference Type Variable Flow Oil Return Technology

According to different operating conditions of the unit, on the premise of ensuring the reliability of the unit, the pressure difference control factor is introduced to conduct intelligent variable flow oil return operation according to the real-time operating parameters of the unit, to ensure the maximum return flow rate and duration, and to improve the reliability of unit again.

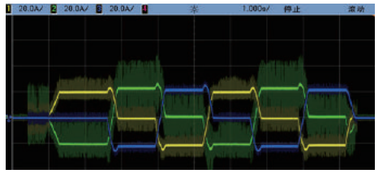


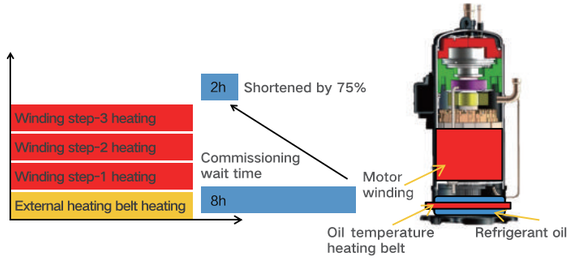


Double Heating Source Oil Temperature Control Technology

Under standby status, the compressor winding and external electric heating belt can independently or simultaneously conduct heating control of the refrigerant oil.

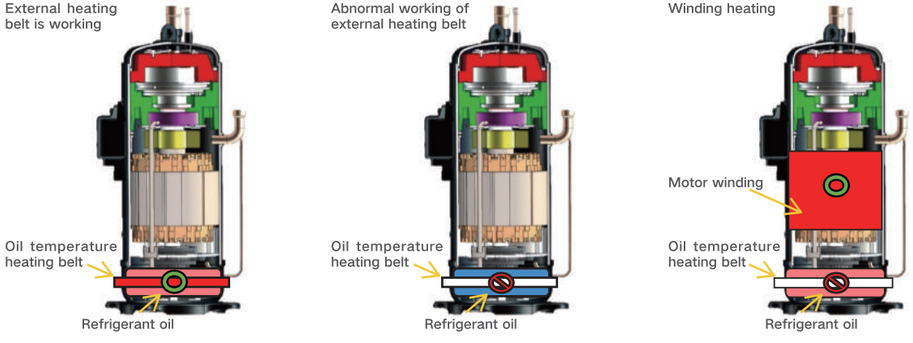
Variable control of motor winding heating power enables fast and safe start-up under different environmental conditions, and the preheating time is shortened from 8 hours to 2 hours.





Backup Heating

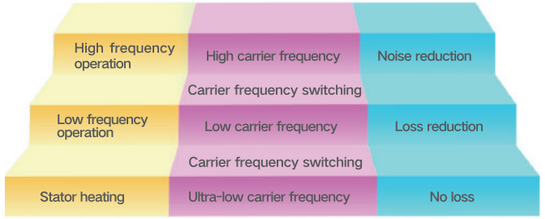
Under the condition that the external heating belt works abnormally in the GMV6 unit, the winding heating can also work normally to ensure the reliability of compressor.
Ordinary units only have external electric heating control. Once the electric heating is faulted, the probability of damage to the compressor is greatly increased.



Self-adaptive Drive Technology

Variable Carrier Frequency Control Technology

According to the operating characteristics of compressor, the carrier frequency is automatically switched, and then high-frequency noise reduction and low-frequency loss reduction are realized, which can maximize the efficiency and reliability.



Strong Torque Start Control

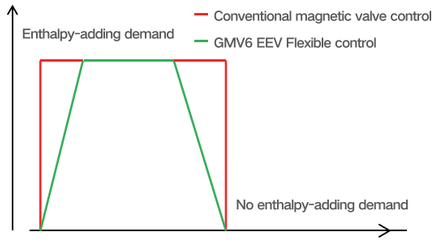
No external balancing device is needed, and the compressor torque self-feedback and adjustment control are adopted. The compressor can be started during the system operation with a high pressure difference, effectively ensuring the continuity and stability of system operation.

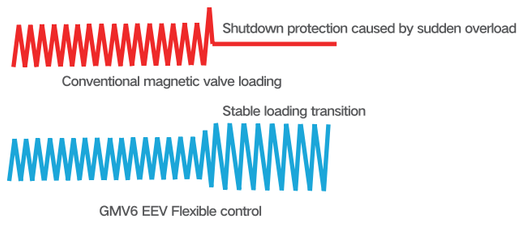
Conventional startup mode

GMV6 startup mode

Flexible Enthalpy Loading Control

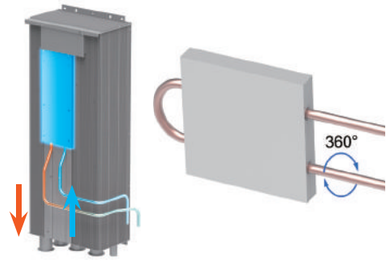
The general enthalpy-adding system adopts “0⟷1” on-off method to switch between enthalpy-adding mode and non-enthalpy-adding mode. This will cause the compressor load to change drastically, which may lead to runaway and shutdown. In serious cases, the compressor may be damaged. The GMV6 unit uses the linear flow change feature of EEV to gradually increase the load during enthalpy-adding control to achieve flexible transition and ensure stable and continuous operation of the system.





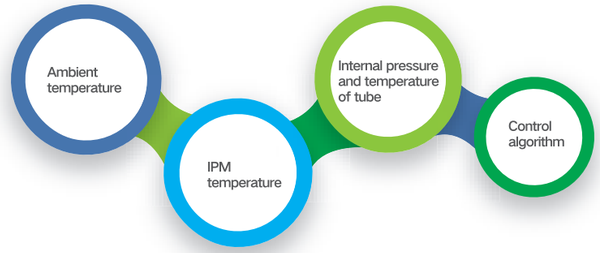
Sub-cooling Module Cooling Technology

The compressor drive IPM high-power device adopts sub-cooling 360 ° ring-shaped heat dissipation structure module cooling technology to ensure that the internal components work under relatively low temperature conditions. Compared with ordinary air-cooled heat dissipation, the internal temperature can be reduced by up to 8℃ , and reliability raised dramatically.



Anti-condensation Control Algorithm for High Humidity Environment

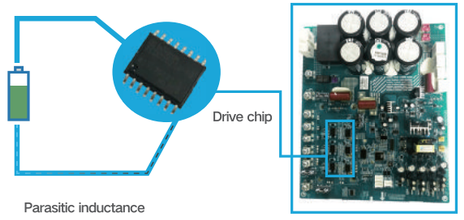
By detecting the ambient temperature, internal pressure and temperature of the tube, IPM temperature, etc., the anti-low temperature control algorithm for the high humidity environment is determined to prevent the condensation of internal components and avoid damage to the devices.

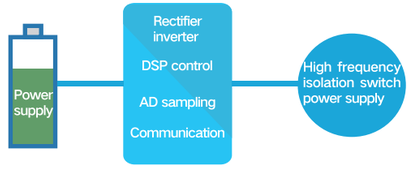


Anti-high Voltage Impact Technology

The greater the compressor capacity is, the greater the unit current will be, and influence of the parasitic inductance of the wiring will also increase; operating reliability of unit will decrease, and even the components will be damaged.

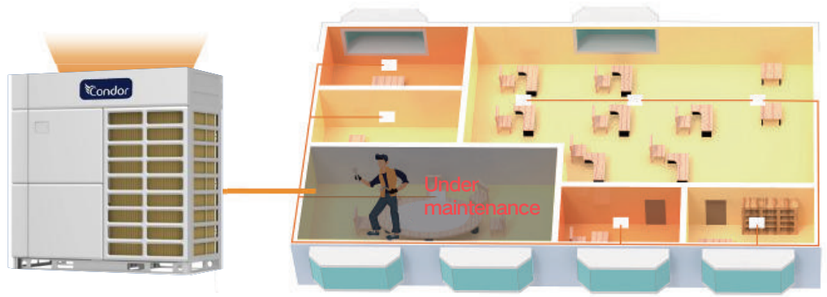
With high-voltage switch power supply and fully isolated drive technology, multiple output electromagnetic isolation is adopted to avoid mutual interference. The circuit protection function is synchronously isolated, and the desat setting can suppress transient peak current. Industrial-grade performance and high-power drive greatly improve safety and reliability.





Indoor Unit Emergency Maintenance Function

When a certain indoor unit of the system needs to be powered down for maintenance, the indoor unit can be turned off separately, while other indoor units can maintain normal operation.



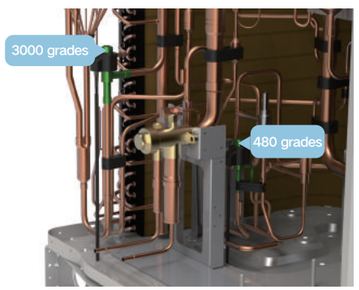
Note: There should be less than 3 indoor units that are powered off at the same time within the same cooling system.

Multi-electronic Expansion Valve Control Technology

Electronic expansion valve is one of the four basic components of the air conditioner. In addition to the throttling function, it can also adjust the refrigerant flow into the evaporator. The wider the adjustment range of the electronic expansion valve is, the higher the accuracy will be.

Outdoor Unit

The outdoor unit adopts double electronic expansion valves, the main electronic expansion valve is 3000 grade, and the subcooled electronic expansion valve is 480 grade, which can accurately control the flow between the modules of indoor unit and outdoor unit.

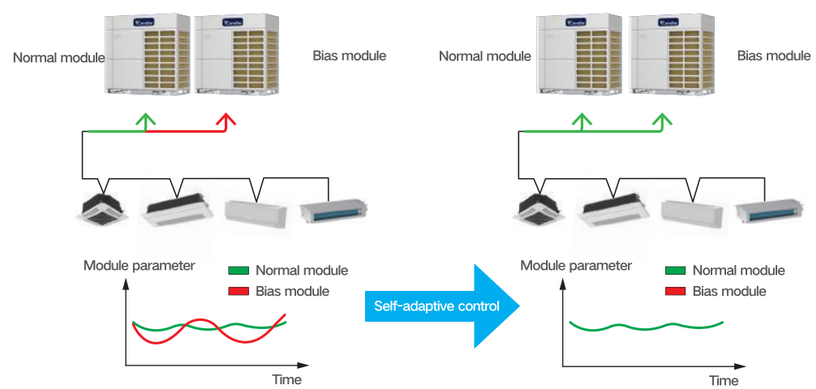


Indoor Unit

The quiet electronic expansion valve is used to accurately control the refrigerant flow, the adjustment is smooth and stable, and the comfort and reliability are improved.

Modular Engineering Piping Self-adaptive Control

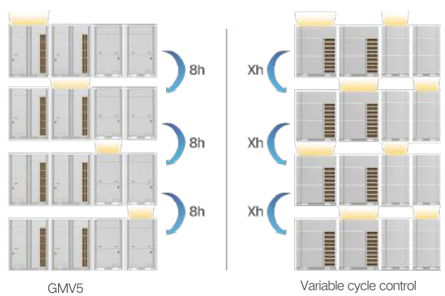
During the modular design of a project, the outdoor unit detects the parameters of each module, the system self-defines the bias current module, and memorizes the operating characteristics of the bias current module. Each module automatically adjusts the control methods and control thresholds of key components according to the difference in characteristics, and memorizes automatically to quickly reach a reliable and efficient operating state when it is restarted next time.



New Generation Intelligent Alternate Control Technology

Variable Cycle Module Alternate Control

GMV6 adopts a new modular control method to ensure the service life of the complete unit and improve the overall operating performance.



X refers to the variable cycle

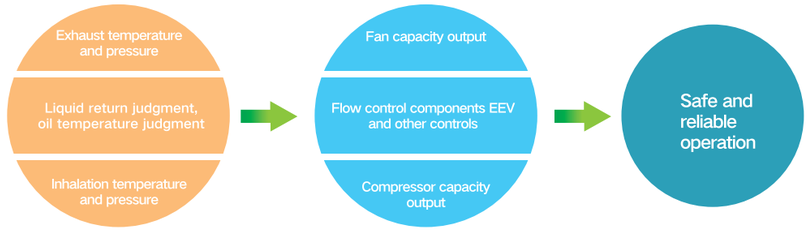
Compressor Alternate Control

As for the system control, not only the overall service life of the modular design is considered, when the module is designed for multiple compressors, the internal compressors will also conduct rotation control to balance the operating service life of each compressor.

*Applicable to partial models.

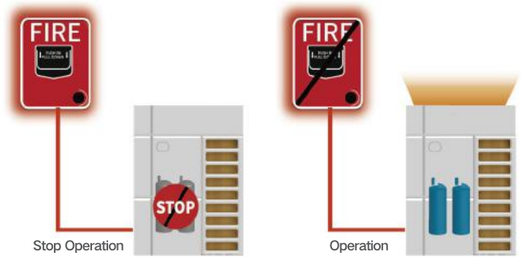
Advanced Anti-liquid Impact Technology

High-efficiency large-capacity gas-liquid separator design for effective separation of refrigerant in gas and liquid state, to avoid large amount of refrigerant be directly inhaled into the compressor. At the same time, the liquid return judgment is combined with the inhalation and exhaust temperature and other parameters. The compressor, EEV and other components are adjusted in real time to effectively prevent the compressor from liquid impact.



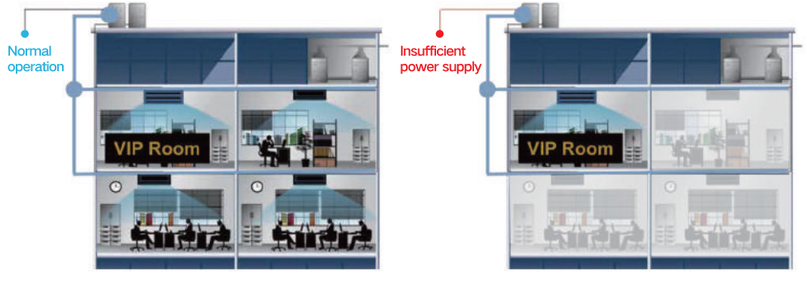
Emergency Stop Function

Without remote monitoring, the outdoor unit can be directly connected to the fire alarm linkage signal to stop the operation of the whole unit immediately in an emergency to avoid greater losses.



VIP Function

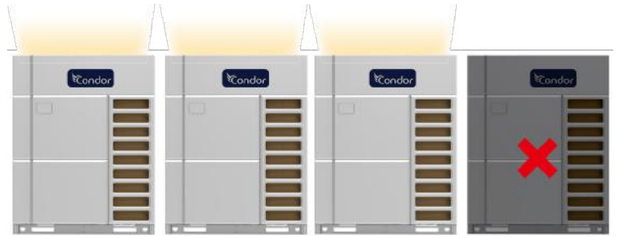
In high-end hotels and other occasions, when the diesel generator is used for power supply temporarily, the outdoor unit can directly connect different power identification signals and send a signal of insufficient power supply to the system. At this time, only rooms set as VIPs such as presidential suites are allowed to use the air conditioner, other rooms are forbidden to use the air conditioner.



Diversified Backup Operation

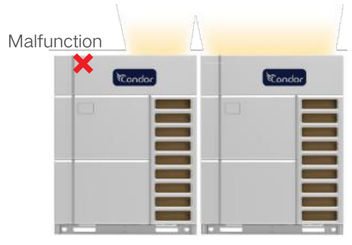
Basic module emergency function

GMV6 can achieve a combination of four independent units. Each unit is a basic module. When a certain basic module is malfunctioning, other basic modules can achieve emergency operation, which reduces the influence of malfunction.



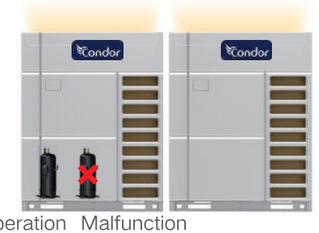
Fan emergency function

Some basic modules are designed with two fans. Gree control logic and optimized system design can ensure that when one of the fans is malfunctioning, the unit can still operate with the other fan, which reduces the influence to users due to sudden stoppage.



Compressor emergency function

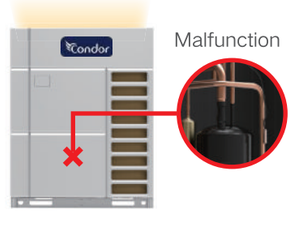
For a basic module with two or more compressors, when one of the compressors is malfunctioning, the unit can still operate with other compressors, which reduces the influence of malfunction.



Sensor malfunction emergency function

The application field of VRF systems is complicated. When a temperature sensor malfunction occurs to the unit, the unit will enter back-up mode, which minimizes the influence of malfunction.

* Only for some temperature sensors.

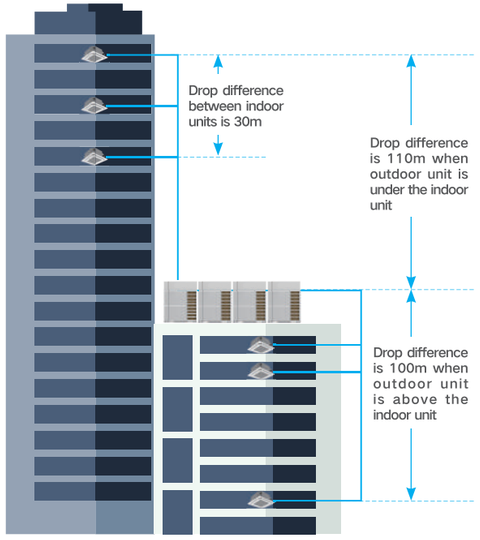


Flexible Engineering Design

Ultra-long connection pipe, convenient maintenance and other designs are adopted. The engineering adaptability of the unit is strong, which satisfies various engineering demands.

Super Long Refrigerant Pipe Design

GMV6 combines high drop pressure control technology, indoor unit drop identification technology, intermediate pressure adjustment technology, tube length self-correction technology, and deep sub-cooling technology to increase the length of piping and improve the air conditioning effect.



- The maximum actual single pipe length is 200m, the maximum equivalent single pipe length is 240m, and the maximum piping length is 1,000m.
- The maximum length after the first branch pipe is 120m *.
- The maximum drop of indoor and outdoor units is 110m * (100m when the outdoor unit is in upper position) *.
- The maximum drop between indoor units is 30m.

*Please consult technical staff for details.

High Static Pressure Design

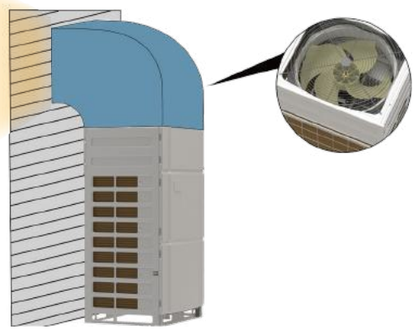
New diversion cover: Effectively coupled with fan blades, the flow field is more uniform.

New diversion cover: effectively coupled with fan blades to make the flow distribution more uniform.

High external static pressure design facilitates engineering application and mechanical floor design.

The air-out grille with vortex streamline distribution, less wind resistance.

High-efficiency motor, powerful output and highest static pressure up to 110Pa (ex-factory standard).



Intelligent Commissioning

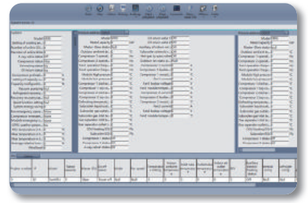
Quick Installation

- Automatic address allocation: the system automatically allocates addresses to the indoor units, no DIP switch is required for commissioning, which is convenient.
- Five-side outlet pipes connection method: pipes can be lead out from five sides--front side, left and right sides, back and lower sides, which is suitable for various installation occasions.
- No external oil balancing pipe: advanced oil balancing control, no need to connect external oil balancing pipe, for fast and convenient installation and higher efficiency.
- Highly versatile design: GMV6 and GMV5 are universal for indoor and outdoor mounting holes, universal for supporting terminal controllers, and universal for commissioning.

Efficient Multiple Commissioning Methods

Diversified commissioning methods to meet different needs of project for higher commissioning efficiency.

One button commissioning
One button to enter commissioning, no other operations, simple and fast



GMV commissioning system
Clear interface, detailed data, and more professional analysis

Multi-functional debugger
Quick connection, no special PC required; data storage space (4GB), no external storage required

Debugging before Installing Wired Controller

Before the completion of the project, in order to avoid damage to the wired controller during the construction process, the system can be debugged without installing the wired controller. After the entire project construction is completed, the wired controller can be installed and put in use, which can reduce unnecessary engineering loss.

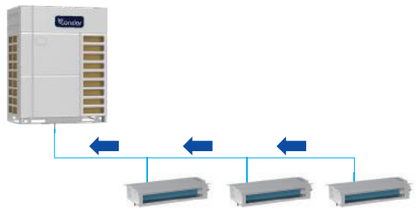
New Generation Refrigerant Automatic Charging *

The new-generation refrigerant automatic charging function can effectively monitor and judge the status of the refrigerant in the system by detecting the high and low pressure, ambient temperature, and other parameters of the system, and strive to achieve the amount of refrigerant that matches the project and improve the efficiency of unit installation and commissioning.

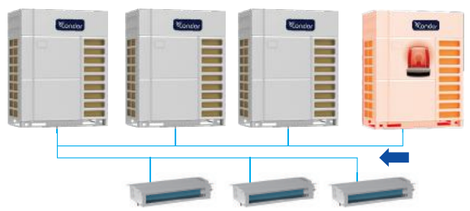
*This function needs to be customized

New Generation Refrigerant Recovery Function

The new generation of indoor unit refrigerant recovery and module refrigerant recovery functions can effectively recover the refrigerant of the indoor unit or the faulted outdoor unit during after-sales maintenance, reducing refrigerant waste and saving maintenance time.



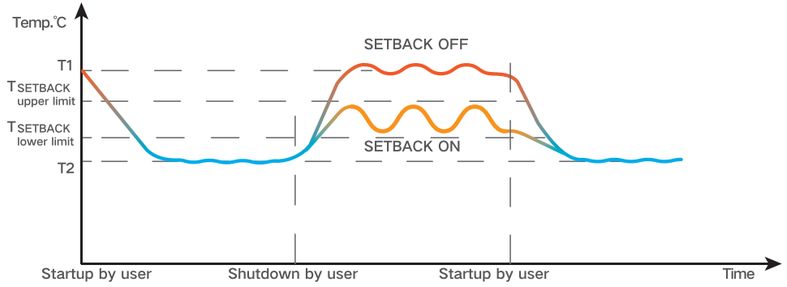
Indoor unit refrigerant recovery



Module refrigerant recovery

SET BACK Function

On occasions with high comfort requirements, such as star-rated hotels, high-end office areas, etc., the unit can start the SET BACK function, even if the unit is turned off, it can also automatically determine the indoor temperature and automatically start operation to ensure the required temperature control under unmanned state, improving the comfort of use.



*Applicable to XK79 wired controller.

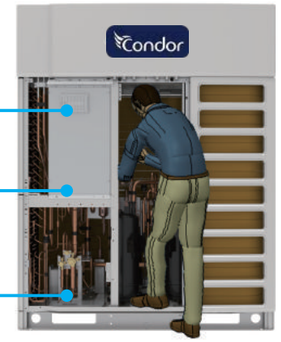
Efficiently Maintained Structural Layout

GMV6 integrated electronic control layout, with reserved maintenance space for higher maintenance efficiency.

Commissioning window, no need to remove the panel, you can conduct commissioning and troubleshooting during operation.

The electronic control components are highly integrated, the component structure is miniaturized, and there is more space for maintenance.

Front-mounted valve assembly design, fast and reliable piping installation.



Large space for convenient maintenance

Four Seasons Operating Function

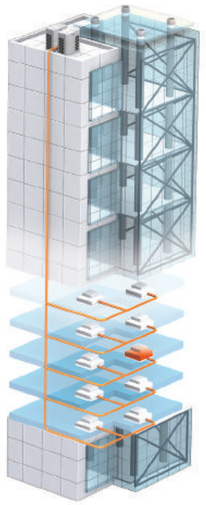
Without additional accessories, operation mode of the whole unit can be set through the outdoor unit to achieve centralized management and reduce energy waste.

Summer lock: cooling is effective

Transition season lock: air supply is effective

Winter lock: heating is effective

Indoor Unit Automatic Positioning Function



When multiple indoor units are installed in large spaces such as exhibition halls, conference rooms, offices, etc., the indoor unit can conduct automatic positioning, the corresponding indoor unit buzzer can automatically respond, and the indoor unit can be quickly positioned by sound to achieve efficient maintenance.

Abnormal unit alarms for positioning

Panel Lifting Function

Ordinary panel cleaning requires the hiring of professionals to clean, and the use of auxiliary tools is required for the operation, which has high maintenance cost and low safety.

Automatic Grille Lifting Technology

Convenient Cleaning Function

Air-in grille adopts two-way suspension lifting technology to realize grille lifting function. Users can clean the filter by themselves.

Grille Lifting Control

Through suspension self-locking technology, two modes — stepless lifting and default lifting are realized, and the maximum descending distance can reach 3.3 meters.

In order to prevent users from entering the cleaning mode by mistake, symmetric encryption technology is adopted to give users a better and comfortable experience.

Note: It needs to be customized, and it can be used with 360 ° air discharge cassette type indoor unit.

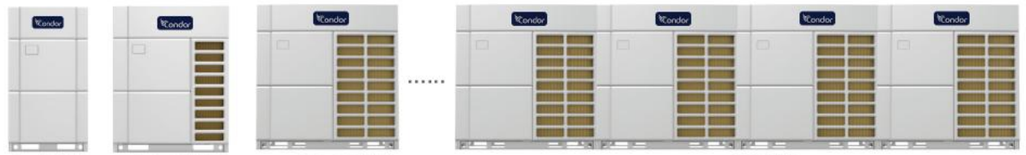
Extra features of GMV X Series

- High-efficiency EVI Compressor
- Multiple Professional Noise Reduction Technologies
- High-efficiency Heat Exchanger Design
- Precise Oil Control for Stable Operation of Compressor
- Multiple Protection Technologies
- Self-adaptive Drive Technology
- CAN+ Communication Technology
- Super Long Refrigerant Pipe Design
- Intelligent Control and Management
- High Static Pressure Design
- Clean and Healthy Fresh Air

GMV X-Heat Pump

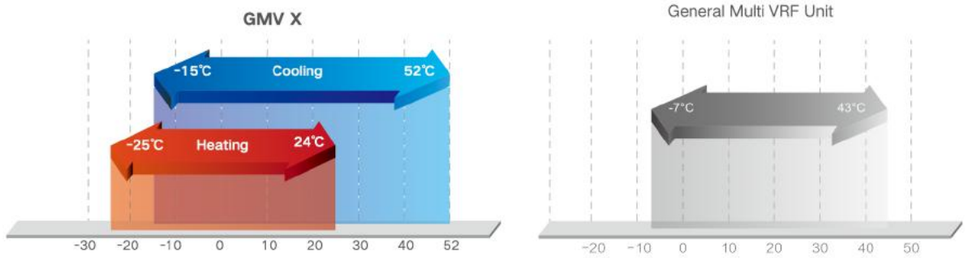
Wide Capacity Range

15 basic models with a capacity range of 8HP~36HP, support 4-module combination. The maximum combination is 128HP for wider cooling capacity range, and the adaptability of engineering capacity design is further improved.



Wide Operation Range

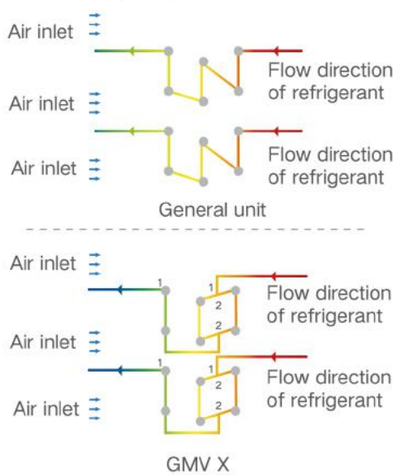
-25℃-52℃ stable operation to provide users with comfortable environment in both cold and hot weather, operating ambient temperature for cooling can be as low as -15℃.



Note:
Cooling at -15~-5℃ is conditional. Please inquire our engineers for more information. Generally, the lowest operating temperature for cooling is -5℃.

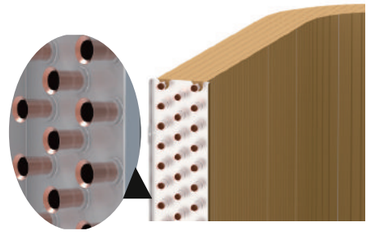
Super-large High-efficiency Heat Exchanger Design

The advanced integrated molding process scheme is adopted. The length of the single heat exchanger is up to 3.6m, which improves the space utilization efficiency, the heat exchanger area and the heat exchange efficiency. The differential partition design of the flow path of the heat exchanger makes the flow more reasonable; combined with the 1-2-2-1 flow path design, the efficiency is higher.



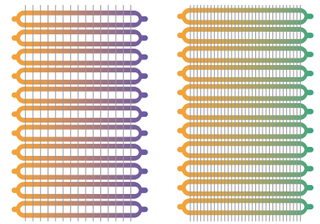
Multi-row Small Diameter Design

High-efficiency multi-row small pipe diameter design is adopted, which improves the heat exchange coefficient and overall heat exchange effect.



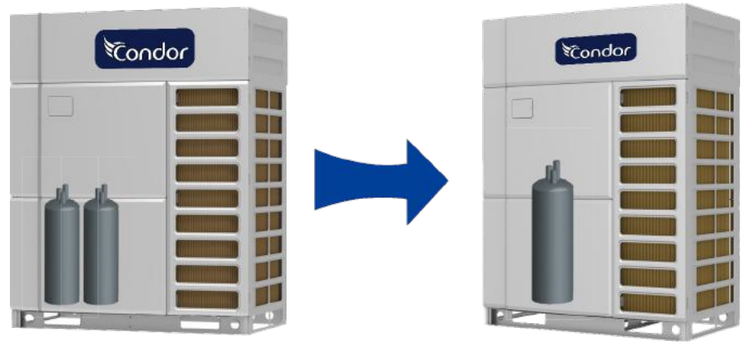
Small Pitch Corrugated Heat Exchanger Fins

Small-spacing corrugated heat exchange fins with hydrophilicity is adopted, so that the overall heat exchange efficiency is higher and the corrosion resistance is stronger for easier defrosting.



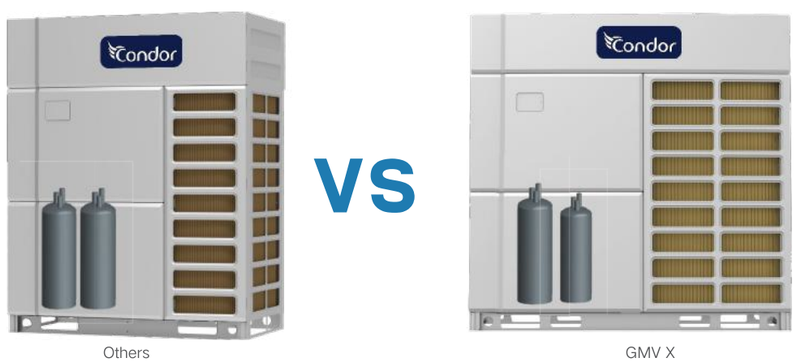
Ultra-large Displacement Compressor Design

Ultra-large displacement compressor is adopted, so that the compressor quantity of the same cooling capacity is less, resulting in higher energy efficiency and more reliable system.



Compressors Combination with Different Capacities

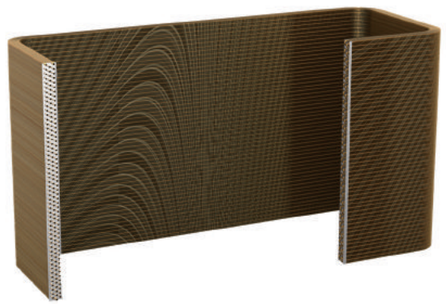
Some units use the combination of a large-capacity compressor and a small-capacity compressor, which greatly improves the adjustment accuracy comparing with two compressors of the same capacity.

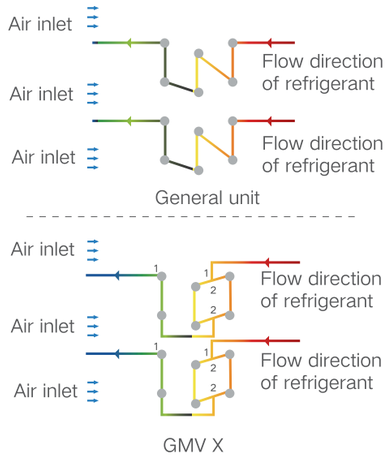


The Largest Overall High-efficiency G-shape Heat Exchanger

G-shape Integrated Heat Exchanger

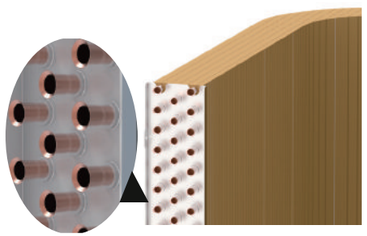
The advanced integrated molding process scheme is adopted. The length of the single heat exchanger is up to 4.2m, which improves the space utilization efficiency, the heat exchanger area and the heat exchange efficiency. The differential partition design of the flow path of the heat exchanger makes the flow more reasonable; combined with the 1-2-2-1 flow path design, the efficiency is higher.





Multi-row Small Diameter Design

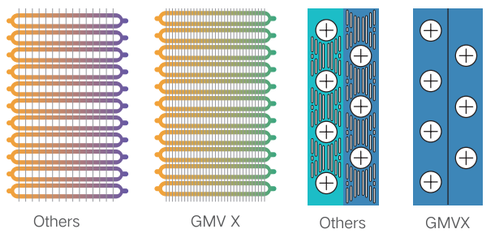
Single pipe of refrigerant pipeline adopts φ7mm and 3-row design, which can reduce the flowing resistance of refrigerant inside the pipe and effectively increase the heat exchange area of refrigerant, so as to optimize and improve the heat exchange efficiency.



*Note: Applicable for some models.

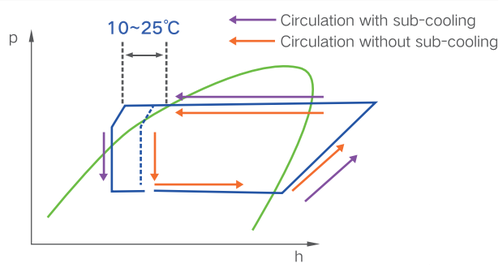
Small Pitch Corrugated Heat Exchanger Fins

Small pitch corrugated fins design to increase effective contact area between fins and the air, for more sufficient heat exchange of refrigerant and higher heat exchange efficiency.



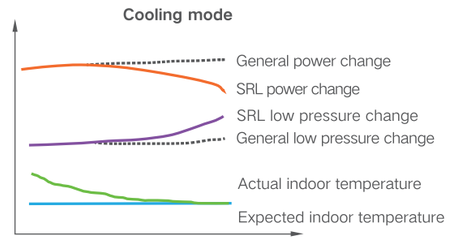
Enhanced Sub-cooling Design

With maximizing sub-cooling technology, maximum sub-cooling reaches 25 ℃ , which can ensure the operating performance under the long connection pipe.



SRL Load Self-adapting Control

SRL(Self-Reaction Load) can intelligently detect and control refrigerant pressure and temperature according to user status and indoor temperature changes, automatically adapt to indoor load and achieve energy-saving balance control.



Double Energy-saving Modes

With the deepening of energy conservation and emission reduction, and the increasing requirements for urban electricity consumption, especially during the peak season of electricity consumption in summer, many cities will issue corresponding electricity curtailment measures. GMV X has a variety of operating modes for users to choose, to meet the city's peak power consumption and power limit requirements.

Capacity Priority Mode

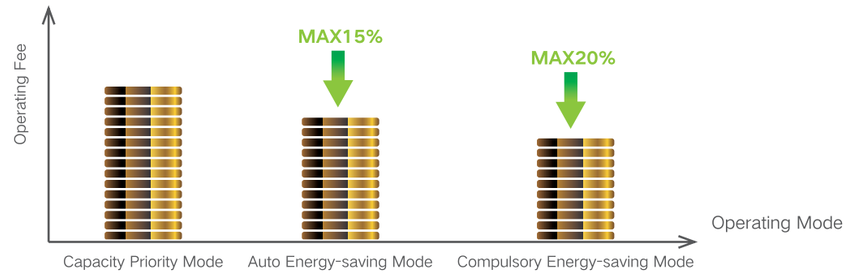
When the power supply is sufficient, it will satisfy the using capacity demand in priority. This mode is default mode.

Auto Energy-saving Mode

When this mode is activated, the system will automatically adjust the control parameters according to operating status, and automatically balance the capacity and energy consumption to realize the minimization of bilateral impact.

Compulsory Energy-saving Mode

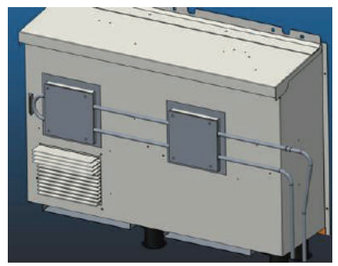
Compulsorily limit the output of outdoor unit to satisfy the using capacity demand in priority. 90% and 80% capacity proportion can be selected to limit the output according to the power consumption of unit and user demand.

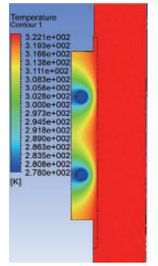


High Reliability

Refrigerant Cooling Technology

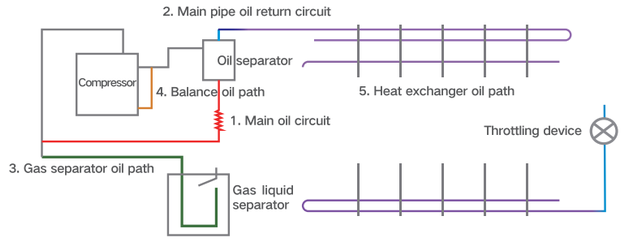
The mainboard uses refrigerant cooling, which improves the operating temperature of the driver components, prolongs the service life, and improves the stability and reliability of the unit.





Multi Oil Circuit Management

5 major oil paths ensure the smooth and reliable oil circuit.

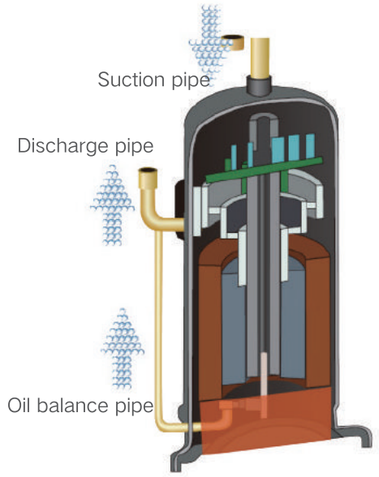


Reliable Oil Circuit Control Technology

GMV X Cooling Only has four advanced refrigerating oil circulation control technologies of oil separation, oil return, oil balance and oil storage, ensuring the safety and reliability of the compressor operation.

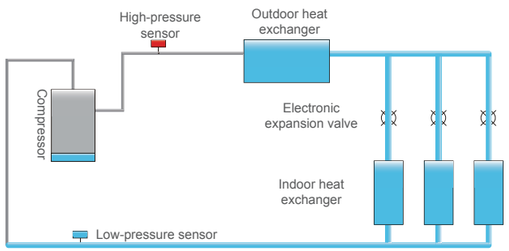
Oil Balance Control Technology

Refrigerant is taken into the compressor by the suction pipe and then runs through the cooling system. It can control the oil level and minimum oil volume required by each compressor so as to realize oil balance between each compressor.

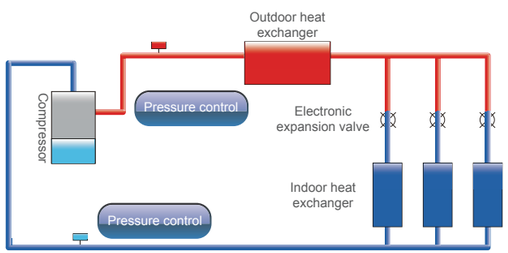


New Oil Return Control

Gree new oil return control technology effectively controls system oil return and oil storage status of each compressor, which greatly improves the operation lifespan of compressor.



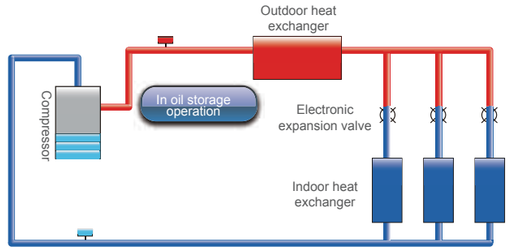
Oil storage status before oil return



Oil return operation

Sepcialized Compressor Oil Storage Control

The system applies specialized compressor oil storage technology, which can control the lowest oil level for compressor operation.



Oil storage operation

Easy Installation and Service

Wide Capacity Range

15 basic models with a capacity range of 8~36HP support up to 4 models combination. The maximum combination is 128HP for wider cooling capacity range, and the adaptability of engineering capacity design is further improved.

15 basic models, capacity range 8HP-36HP


8-12HP


14-18HP


20-24HP


26-36HP

8-24HP combination models: 36
Combination models capacity range: 26HP-96HP
Support up to 4 models combination

2 units: 26 – 48 HP

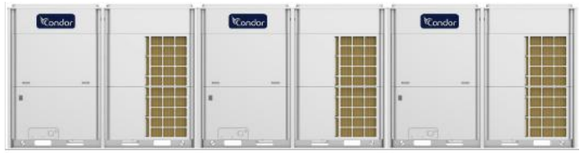
3 units: 50 – 72 HP

4 units: 74 - 96HP

26-36HP combination models: 37
Combination models capacity range: 52HP-128HP
Support up to 4 models combination(Max. 128HP)

2 units: 52 -72 HP

3 units: 78 - 96 HP



4 units: 98 - 128 HP

Smaller Footprint, Saving Installation Space

The new generation 24HP model footprint is 41% lower than the previous generation; 36HP is 6% lower than the previous generation.

24HP

1.74 m^2
GMV5

1.03 m^2
GMV X

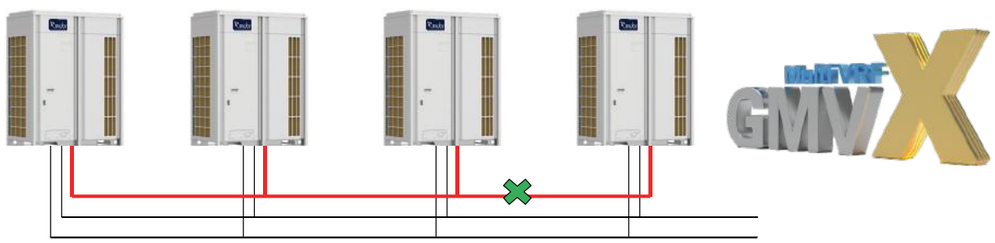
36HP

2.05 m^2
GMV5

1.93 m^2
GMV X

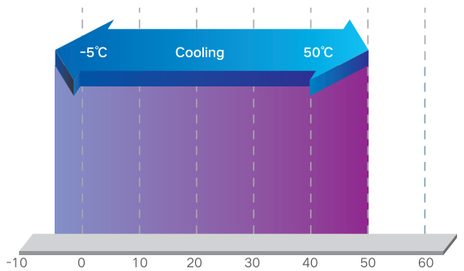
Self-balancing Control without Oil Balance Pipe

There is no need for external oil balance pipe. By collecting and calculating the capacity output and threshold of each module, the distribution of refrigerating oil is automatically controlled to ensure stable operation of the system.



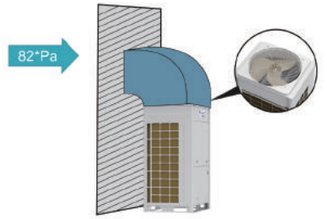
Wider Operating Range

Outdoor operating temperature range is improved to -5℃ ~50 ℃



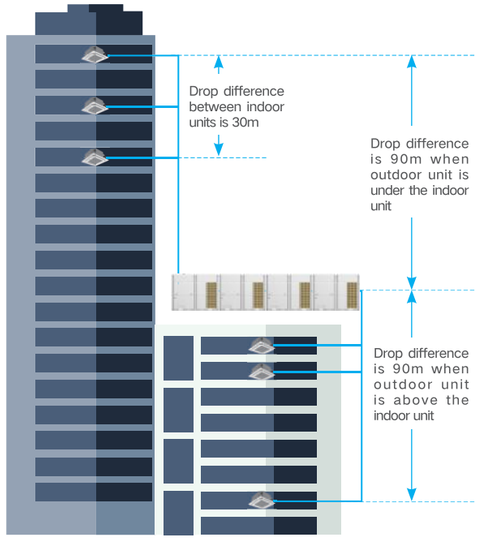
Super-high Static Pressure Design

The unit has four kinds of static pressure (0Pa, 30Pa, 50Pa, 82Pa). You can choose corresponding static pressure according to the building type.



Note: Applicable for some models.

Long Refrigerant Pipe Design



The outdoor unit to the farthest indoor unit:

- The maximum equivalent single pipe length is 190m
- The maximum actual single pipe length is 165m
- The maximum total connection pipe length is 1000m
- The maximum distance from the indoor unit to the first branch pipe is 90*m.

Maximum drop difference between indoor unit and outdoor unit:

- Drop difference is 90m when the outdoor unit is below the indoor unit
- Drop difference is 90m when the outdoor unit is over the indoor unit
- Maximum drop difference between indoor units is 30m.

*Please consult the sales representatives for details.

New Generation Refrigerant Recovery Function

The new generation of indoor unit refrigerant recovery and module refrigerant recovery functions can effectively recover the refrigerant of the indoor unit or the faulted outdoor unit during after-sales maintenance, reducing refrigerant waste and saving maintenance time.

GMV6 Outdoor Specifications (H-X Serires)

GMV6（380-415V 3N~50/60Hz）

Model			GM V-224WM/H-X	GM V-280WM/H-X	GM V-335WM/H-X	GM V-400WM/H-X
Capacity rangeH		P	8	10	12	14
Cooling capacity	Rated *	kW	22.4	28.0	33.5	40.0
	Max.	kW	22.4	28.0	33.5	40.0
Heating capacity	Rated *	kW	22.4	28.0	33.5	40.0
	Max.	kW	25.0	31.5	37.5	45.0
SEER	Ducted *	-	7.10	6.59	6.31	6.68
	Cassette *	-	7.80	6.26	6.58	6.66
SCOP	Ducted *	-	4.62	4.80	4.40	4.80
	Cassette *	-	4.50	4.75	4.66	4.44
Power supplyV		/Ph/Hz	380-415V 3N~ 50/60Hz			
Min. circuit/Max. fuse currentA			23.0/25	23.5/25	24.1/25	37.5/40
Maximum drive IDU NO.u		nit	13	16	19	23
Refrigerant charge volume		kg	5.5	5.5	7.5	7.5
Sound pressure level (cooling)		dB(A)	56	57	59	59
Sound power level (cooling)	Ducted *	dB(A)	80	84	86	90
	Cassette *	dB(A)	82	86	86	88
Connecting pipe	Liquidm	m	Φ9.52	Φ9.52	Φ12.7	Φ12.7
	Gas	mm	Φ19.05	Φ22.2	Φ25.4	Φ25.4
Dimension(W×D×H)	Outline	mm	930×775×1690	930×775×1690	930×775×1690	1340×775×1690
	Package	mm	1000×830×1855	1000×830×1855	1000×830×1855	1400×830×1855
Net weight/Gross weight		kg	220/230	220/230	240/250	300/315
Loading quantity	20'G P	unit	12	12	12	10
	40'G Pu	nit	28	28	28	22
	40'H Qu	nit	28	28	28	22

Model			GM V-450WM/H-X	GM V-504WM/H-X	GM V-560WM/H-X	GM V-615WM/H-X
Capacity rangeH		P	16	18	20	22
Cooling capacity	Rated *	kW	45.0	50.4	52.0	52.0
	Max.	kW	45.0	50.4	56.0	56.0
Heating capacity	Rated *k	W	45.0	50.4	56.0	61.5
	Max.	kW	50.0	56.5	63.0	69.0
SEER	Ducted *	-	6.17	6.06	5.97	5.97
	Cassette *	-	6.34	6.06	5.67	5.67
SCOP	Ducted *	-	4.84	4.19	4.11	4.11
	Cassette *	-	4.44	3.71	3.71	3.71
Power supplyV		/Ph/Hz	380-415V 3N~ 50/60Hz			
Min. circuit/Max. fuse currentA			39.3/40	47.0/50	48.0/50	49.0/50
Maximum drive IDU NO.u		nit	26	29	33	36
Refrigerant charge volumek		g	7.5	8.3	8.3	8.3
Sound pressure level (cooling)		dB(A)	60	61	62	63
Sound power level (cooling)	Ducted *	dB(A)	93	93	93	93
	Cassette *	dB(A)	93	88	94	94
Connecting pipe	Liquidm	m	Φ12.7	Φ15.9	Φ15.9	Φ15.9
	Gas	mm	Φ28.6	Φ28.6	Φ28.6	Φ28.6
Dimension(W×D×H)	Outlinem	m	1340×775×1690	1340×775×1690	1340×775×1690	1340×775×1690
	Package	mm	1400×830×1855	1400×830×1855	1400×830×1855	1400×830×1855
Net weight/Gross weight		kg	300/315	350/365	350/365	355/370
Loading quantity	20' GP	unit	10	10	10	10
	40' GP	unit	22	22	22	22
	40' HQ	unit	22	22	22	22

Note: The data is Eurovent certified.

GMV6 Outdoor Combination Lineup (H-X Series)

GMV6（380-415V 3N~50/60Hz）

HP	Model	GMV-224WM/H-X	GMV-280WM/H-X	GMV-335WM/H-X	GMV-400WM/H-X	GMV-450WM/H-X	GMV-504WM/H-X	GMV-560WM/H-X	GMV-615WM/H-X
8	GMV-224WM/H-X	●							
10	GMV-280WM/H-X		●						
12	GMV-335WM/H-X			●					
14	GMV-400WM/H-X				●				
16	GMV-450WM/H-X					●			
18	GMV-504WM/H-X						●		
20	GMV-560WM/H-X							●	
22	GMV-615WM/H-X								●
24	GMV-680WM/H-X		●		●				
26	GMV-730WM/H-X		●			●			
28	GMV-784WM/H-X		●				●		
30	GMV-840WM/H-X		●					●	
32	GMV-895WM/H-X		●						●
34	GMV-950WM/H-X			●					●
36	GMV-1015WM/H-X				●				●
38	GMV-1065WM/H-X					●			●
40	GMV-1119WM/H-X						●		●
42	GMV-1175WM/H-X							●	●
44	GMV-1230WM/H-X								●●
46	GMV-1290WM/H-X		●			●		●	
48	GMV-1345WM/H-X		●			●			●
50	GMV-1400WM/H-X			●		●			●
52	GMV-1455WM/H-X		●					●	●
54	GMV-1510WM/H-X		●						●●
56	GMV-1565WM/H-X			●					●●
58	GMV-1630WM/H-X				●				●●
60	GMV-1680WM/H-X					●			●●
62	GMV-1734WM/H-X						●		●●
64	GMV-1790WM/H-X							●	●●
66	GMV-1845WM/H-X								●●●
68	GMV-1905WM/H-X		●			●		●	●
70	GMV-1959WM/H-X		●				●	●	●
72	GMV-2015WM/H-X		●					●●	●
74	GMV-2070WM/H-X		●					●	●●
76	GMV-2125WM/H-X		●						●●●
78	GMV-2180WM/H-X			●					●●●
80	GMV-2245WM/H-X				●				●●●
82	GMV-2295WM/H-X					●			●●●
84	GMV-2349WM/H-X						●		●●●
86	GMV-2405WM/H-X							●	●●●
88	GMV-2460WM/H-X								●●●●

GMV6 Outdoor Combination Specifications (H-X Series)

GMV6（380-415V 3N~50/60Hz）

HP	Model	Power Supply	Capacity		Dimension (W×D×H)	Airflow Volume	ESP	Connecting pipe		Min.circuit current	Max.fuse current	Net weight
			Cooling capacity	Heating capacity				Liquid	Gas			
			kW	kW	mm	m³/h	Pa	mm	mm	A	A	kg
24	GMV-680WM/H-X	380-415V 3N~ 50/60Hz	68.0	76.5	930×775×1690 +1340×775×1690	10500+13500	110	Φ15.9	Φ28.6	23.5+37.5	25+40	220+300
26	GMV-730WM/H-X		73.0	81.5	930×775×1690 +1340×775×1690	10500+15400	110	Φ19.05	Φ31.8	23.5+39.3	25+40	220+300
28	GMV-784WM/H-X		78.4	88.0	930×775×1690 +1340×775×1690	10500+16000	110	Φ19.05	Φ31.8	23.5+47	25+50	220+350
30	GMV-840WM/H-X		84.0	94.5	930×775×1690 +1340×775×1690	10500+16500	110	Φ19.05	Φ31.8	23.5+48	25+50	220+350
32	GMV-895WM/H-X		89.5	100.5	930×775×1690 +1340×775×1690	10500+16500	110	Φ19.05	Φ31.8	23.5+49	25+50	220+355
34	GMV-950WM/H-X		95.0	106.5	930×775×1690 +1340×775×1690	11100+16500	110	Φ19.05	Φ31.8	24.1+49	25+50	240+355
36	GMV-1015WM/H-X		101.5	114.0	(1340×775×1690)×2	13500+16500	110	Φ19.05	Φ38.1	37.5+49	40+50	300+355
38	GMV-1065WM/H-X		106.5	119.0	(1340×775×1690)×2	15400+16500	110	Φ19.05	Φ38.1	39.3+49	40+50	300+355
40	GMV-1119WM/H-X		111.9	125.5	(1340×775×1690)×2	16000+16500	110	Φ19.05	Φ38.1	47+49	50+50	350+355
42	GMV-1175WM/H-X		117.5	132.0	(1340×775×1690)×2	16500×2	110	Φ19.05	Φ38.1	48+49	50+50	350+355
44	GMV-1230WM/H-X		123.0	138.0	(1340×775×1690)×2	16500×2	110	Φ19.05	Φ38.1	49+49	50+50	355×2
46	GMV-1290WM/H-X		129.0	144.5	930×775×1690+ (1340×775×1690)×2	10500+ 15400+16500	110	Φ19.05	Φ38.1	23.5+39.3+48	25+40+50	220+300+350
48	GMV-1345WM/H-X		134.5	150.5	930×775×1690+ (1340×775×1690)×2	10500+ 15400+16500	110	Φ19.05	Φ38.1	23.5+39.3+49	25+40+50	220+300+355
50	GMV-1400WM/H-X		140.0	156.5	930×775×1690+ (1340×775×1690)×2	11100+ 15400+16500	110	Φ19.05	Φ41.3	24.1+39.3+49	25+40+50	240+300+355
52	GMV-1455WM/H-X		145.5	163.5	930×775×1690+ (1340×775×1690)×2	10500+16500×2	110	Φ19.05	Φ41.3	23.5+48+49	25+50+50	220+350+355
54	GMV-1510WM/H-X		151.0	169.5	930×775×1690+ (1340×775×1690)×2	10500+16500×2	110	Φ19.05	Φ41.3	23.5+49+49	25+50+50	220+355×2
56	GMV-1565WM/H-X		156.5	175.5	930×775×1690+ (1340×775×1690)×2	11100+16500×2	110	Φ19.05	Φ41.3	24.1+49+49	25+50+50	240+355×2
58	GMV-1630WM/H-X		163.0	183.0	(1340×775×1690)×3	13500+16500×2	110	Φ19.05	Φ41.3	37.5+49+49	40+50+50	300+355×2
60	GMV-1680WM/H-X		168.0	188.0	(1340×775×1690)×3	15400+16500×2	110	Φ19.05	Φ41.3	39.3+49+49	40+50+50	300+355×2
62	GMV-1734WM/H-X		173.4	194.5	(1340×775×1690)×3	16000+16500×2	110	Φ19.05	Φ41.3	47+49+49	50+50+50	350+355×2
64	GMV-1790WM/H-X		179.0	201.0	(1340×775×1690)×3	16500×3	110	Φ19.05	Φ41.3	48+49+49	50+50+50	350+355×2
66	GMV-1845WM/H-X		184.5	207.0	(1340×775×1690)×3	16500×3	110	Φ19.05	Φ41.3	49+49+49	50+50+50	355×3
68	GMV-1905WM/H-X		190.5	213.5	930×775×1690+ (1340×775×1690)×3	10500+15400 +16500×2	110	Φ22.2	Φ44.5	23.5+39.3+48+49	25+40+50+50	220+300+350+355
70	GMV-1959WM/H-X		195.9	220.0	930×775×1690+ (1340×775×1690)×3	10500+16000 +16500×2	110	Φ22.2	Φ44.5	23.5+47+48+49	25+50+50+50	220+350×2+355
72	GMV-2015WM/H-X		201.5	226.5	930×775×1690+ (1340×775×1690)×3	10500+16500×3	110	Φ22.2	Φ44.5	23.5+48+48+49	25+50+50+50	220+350×2+355
74	GMV-2070WM/H-X		207.0	232.5	930×775×1690+ (1340×775×1690)×3	10500+16500×3	110	Φ22.2	Φ44.5	23.5+48+49+49	25+50+50+50	220+350+355×2
76	GMV-2125WM/H-X		212.5	238.5	930×775×1690+ (1340×775×1690)×3	10500+16500×3	110	Φ22.2	Φ44.5	23.5+49+49+49	25+50+50+50	220+355×3
78	GMV-2180WM/H-X		218.0	244.5	930×775×1690+ (1340×775×1690)×3	11100+16500×3	110	Φ22.2	Φ44.5	24.1+49+49+49	25+50+50+50	240+355×3
80	GMV-2245WM/H-X		224.5	252.0	(1340×775×1690)×4	13500+16500×3	110	Φ22.2	Φ44.5	37.5+49+49+49	40+50+50+50	300+355×3
82	GMV-2295WM/H-X		229.5	257.0	(1340×775×1690)×4	15400+16500×3	110	Φ22.2	Φ44.5	39.3+49+49+49	40+50+50+50	300+355×3
84	GMV-2349WM/H-X		234.9	263.5	(1340×775×1690)×4	16000+16500×3	110	Φ22.2	Φ44.5	47+49+49+49	50+50+50+50	350+355×3
86	GMV-2405WM/H-X		240.5	270.0	(1340×775×1690)×4	16500×4	110	Φ22.2	Φ44.5	48+49+49+49	50+50+50+50	350+355×3

GMV6 Outdoor Specifications (G-X Serires)

GMV6（380-415V 3N~50/60Hz）

Model			GMV-224WM/G-X	GMV-280WM/G-X	GMV-335WM/G-X	GMV-400WM/G-X	GMV-450WM/G-X
Capacity range		HP	8	10	12	14	16
Capacity	Cooling	kW	22.4	28.0	33.5	40.0	45.0
	Heating	kW	25.0	31.5	37.5	45.0	50.0
EER		W/W	4.78	4.52	4.35	4.35	4.17
COP		W/W	5.50	5.34	4.81	4.74	4.67
Power supply		V/Ph/Hz	380-415V 3N~ 50/60Hz				
Min. circuit/Max. fuse current		A	23.0/25	23.5/25	24.1/25	32.5/40	33.5/40
Power consumption	Cooling	kW	4.69	6.20	7.70	9.20	10.80
	Heating	kW	4.55	5.90	7.80	9.50	10.70
Maximum drive IDU NO.		unit	13	16	19	23	26
Refrigerant charge volume		kg	5.5	5.5	5.7	7.0	7.5
Sound pressure level		dB(A)	56	57	59	59	60
Connecting pipe	Liquid	mm	Φ9.52	Φ9.52	Φ12.7	Φ12.7	Φ12.7
	Gas	mm	Φ19.05	Φ22.2	Φ25.4	Φ25.4	Φ28.6
Dimension (W× D× H)	Outline	mm	930× 775× 1690	930× 775× 1690	930× 775× 1690	1340× 775× 1690	1340× 775× 1690
	Package	mm	1000× 830× 1855	1000× 830× 1855	1000× 830× 1855	1400× 830× 1855	1400× 830× 1855
Net weight/Gross weight		kg	215/225	215/225	220/230	290/305	290/305
Loading quantity	40' GP	unit	28	28	28	22	22
	40' HQ	unit	28	28	28	22	22

Model			GMV-504WM/G-X	GMV-560WM/G-X	GMV-615WM/G-X	GMV-680WM/G-X
Capacity range		HP	18	20	22	24
Capacity	Cooling	kW	50.4	56.0	61.5	68.0
	Heating	kW	56.5	63.0	69.0	76.5
EER		W/W	4.10	4.06	3.80	3.32
COP		W/W	4.38	4.34	4.08	3.81
Power supply		V/Ph/Hz	380-415V 3N~ 50/60Hz			
Min. circuit/Max. fuse current		A	47.0/50	48.0/50	49.0/50	49.0/50
Power consumption	Cooling	kW	12.30	13.80	16.20	20.50
	Heating	kW	12.90	14.52	16.90	20.10
Maximum drive IDU NO.		unit	29	33	36	39
Refrigerant charge volume		kg	8.0	8.0	8.3	8.3
Sound pressure level		dB(A)	61	62	63	64
Connecting pipe	Liquid	mm	Φ15.9	Φ15.9	Φ15.9	Φ15.9
	Gas	mm	Φ28.6	Φ28.6	Φ28.6	Φ28.6
Dimension (W× D× H)	Outline	mm	1340× 775× 1690	1340× 775× 1690	1340× 775× 1690	1340× 775× 1690
	Package	mm	1400× 830× 1855	1400× 830× 1855	1400× 830× 1855	1400× 830× 1855
Net weight/Gross weight		kg	295/310	350/365	350/365	355/370
Loading quantity	40' GP	unit	22	22	22	22
	40' HQ	unit	22	22	22	22

GMV6 Outdoor Combination Lineup (G-X Series)

GMV6 (380-415V 3N~50/50Hz)

HP	Model	GMV-224WM/G-X	GMV-280WM/G-X	GMV-335WM/G-X	GMV-400WM/G-X	GMV-450WM/G-X	GMV-504WM/G-X	GMV-560WM/G-X	GMV-615WM/G-X	GMV-680WM/G-X
8	GMV-224WM/G-X	●								
10	GMV-280WM/G-X		●							
12	GMV-335WM/G-X			●						
14	GMV-400WM/G-X				●					
16	GMV-450WM/G-X					●				
18	GMV-504WM/G-X						●			
20	GMV-560WM/G-X							●		
22	GMV-615WM/G-X								●	
24	GMV-680WM/G-X									●
26	GMV-735WM/G-X			●	●					
28	GMV-785WM/G-X			●		●				
30	GMV-839WM/G-X			●			●			
32	GMV-895WM/G-X		●						●	
34	GMV-950WM/G-X			●					●	
36	GMV-1015WM/G-X				●				●	
38	GMV-1064WM/G-X						●	●		
40	GMV-1119WM/G-X						●		●	
42	GMV-1175WM/G-X							●	●	
44	GMV-1230WM/G-X								●●	
46	GMV-1295WM/G-X								●	●
48	GMV-1360WM/G-X									●●
50	GMV-1399WM/G-X			●			●	●		
52	GMV-1455WM/G-X		●					●	●	
54	GMV-1510WM/G-X		●						●●	
56	GMV-1565WM/G-X			●					●●	
58	GMV-1623WM/G-X						●●		●	
60	GMV-1679WM/G-X						●	●	●	
62	GMV-1734WM/G-X						●		●●	
64	GMV-1790WM/G-X							●	●●	
66	GMV-1845WM/G-X								●●●	
68	GMV-1910WM/G-X								●●	●
70	GMV-1975WM/G-X								●	●●
72	GMV-2040WM/G-X									●●●
74	GMV-2069WM/G-X			●			●		●●	
76	GMV-2129WM/G-X					●	●	●	●	
78	GMV-2190WM/G-X				●			●	●●	
80	GMV-2245WM/G-X				●				●●●	
82	GMV-2295WM/G-X							●●●	●	
84	GMV-2350WM/G-X							●●	●●	
86	GMV-2414WM/G-X						●		●●	●
88	GMV-2470WM/G-X							●	●●	●
90	GMV-2525WM/G-X								●●●	●
92	GMV-2590WM/G-X								●●	●●
94	GMV-2655WM/G-X								●	●●●
96	GMV-2720WM/G-X									●●●●

GMV6 Outdoor Combination Specifications (G-X Series)

GMV6 (380-415V 3N~50/50Hz)

HP	Model	Power Supply	Capacity		Dimension (W×D×H)	Airflow Volume	ESP	Connecting pipe		Min.circuit current	Max.fuse current	Net weight
			Cooling capacity	Heating capacity				Liquid	Gas			
			kW	kW	mm	m^3/h	Pa	mm	mm	A	A	kg
24	GMV-680WM/H1-X	380-415V 3N~ 50/60Hz	68.0	76.5	930×775×1690 +1340×775×1690	10500+13500	110	Φ15.9	Φ28.6	23.5+37.5	25+40	220+300
26	GMV-730WM/H1-X		73.0	81.5	930×775×1690 +1340×775×1690	10500+15400	110	Φ19.05	Φ31.8	23.5+39.3	25+40	220+300
28	GMV-784WM/H1-X		78.4	88.0	930×775×1690 +1340×775×1690	10500+16000	110	Φ19.05	Φ31.8	23.5+47	25+50	220+350
30	GMV-840WM/H1-X		84.0	94.5	930×775×1690 +1340×775×1690	10500+16500	110	Φ19.05	Φ31.8	23.5+48	25+50	220+350
32	GMV-895WM/H1-X		89.5	100.5	930×775×1690 +1340×775×1690	10500+16500	110	Φ19.05	Φ31.8	23.5+49	25+50	220+355
34	GMV-950WM/H1-X		95.0	106.5	930×775×1690 +1340×775×1690	11100+16500	110	Φ19.05	Φ31.8	24.1+49	25+50	240+355
36	GMV-1015WM/H1-X		101.5	114.0	(1340×775×1690)×2	13500+16500	110	Φ19.05	Φ38.1	37.5+49	40+50	300+355
38	GMV-1065WM/H1-X		106.5	119.0	(1340×775×1690)×2	15400+16500	110	Φ19.05	Φ38.1	39.3+49	40+50	300+355
40	GMV-1119WM/H1-X		111.9	125.5	(1340×775×1690)×2	16000+16500	110	Φ19.05	Φ38.1	47+49	50+50	350+355
42	GMV-1175WM/H1-X		117.5	132.0	(1340×775×1690)×2	16500×2	110	Φ19.05	Φ38.1	48+49	50+50	350+355
44	GMV-1230WM/H1-X		123.0	138.0	(1340×775×1690)×2	16500×2	110	Φ19.05	Φ38.1	49+49	50+50	355×2
46	GMV-1290WM/H1-X		129.0	144.5	930×775×1690+ (1340×775×1690)×2	10500+ 15400+16500	110	Φ19.05	Φ38.1	23.5+39.3+48	25+40+50	220+300+350
48	GMV-1345WM/H1-X		134.5	150.5	930×775×1690+ (1340×775×1690)×2	10500+ 15400+16500	110	Φ19.05	Φ38.1	23.5+39.3+49	25+40+50	220+300+355
50	GMV-1400WM/H1-X		140.0	156.5	930×775×1690+ (1340×775×1690)×2	11100+ 15400+16500	110	Φ19.05	Φ41.3	24.1+39.3+49	25+40+50	240+300+355
52	GMV-1455WM/H1-X		145.5	163.5	930×775×1690+ (1340×775×1690)×2	10500+16500×2	110	Φ19.05	Φ41.3	23.5+48+49	25+50+50	220+350+355
54	GMV-1510WM/H1-X		151.0	169.5	930×775×1690+ (1340×775×1690)×2	10500+16500×2	110	Φ19.05	Φ41.3	23.5+49+49	25+50+50	220+355×2
56	GMV-1565WM/H1-X		156.5	175.5	930×775×1690+ (1340×775×1690)×2	11100+16500×2	110	Φ19.05	Φ41.3	24.1+49+49	25+50+50	240+355×2
58	GMV-1630WM/H1-X		163.0	183.0	(1340×775×1690)×3	13500+16500×2	110	Φ19.05	Φ41.3	37.5+49+49	40+50+50	300+355×2
60	GMV-1680WM/H1-X		168.0	188.0	(1340×775×1690)×3	15400+16500×2	110	Φ19.05	Φ41.3	39.3+49+49	40+50+50	300+355×2
62	GMV-1734WM/H1-X		173.4	194.5	(1340×775×1690)×3	16000+16500×2	110	Φ19.05	Φ41.3	47+49+49	50+50+50	350+355×2
64	GMV-1790WM/H1-X		179.0	201.0	(1340×775×1690)×3	16500×3	110	Φ19.05	Φ41.3	48+49+49	50+50+50	350+355×2
66	GMV-1845WM/H1-X		184.5	207.0	(1340×775×1690)×3	16500×3	110	Φ19.05	Φ41.3	49+49+49	50+50+50	355×3
68	GMV-1905WM/H1-X		190.5	213.5	930×775×1690+ (1340×775×1690)×3	10500+15400 +16500×2	110	Φ22.2	Φ44.5	23.5+39.3+48+49	25+40+50+50	220+300+350+355
70	GMV-1959WM/H1-X		195.9	220.0	930×775×1690+ (1340×775×1690)×3	10500+16000 +16500×2	110	Φ22.2	Φ44.5	23.5+47+48+49	25+50+50+50	220+350×2+355
72	GMV-2015WM/H-X		201.5	226.5	930×775×1690+ (1340×775×1690)×3	10500+16500×3	110	Φ22.2	Φ44.5	23.5+48+48+49	25+50+50+50	220+350×2+355
74	GMV-2070WM/H1-X		207.0	232.5	930×775×1690+ (1340×775×1690)×3	10500+16500×3	110	Φ22.2	Φ44.5	23.5+48+49+49	25+50+50+50	220+350+355×2
76	GMV-2125WM/H1-X		212.5	238.5	930×775×1690+ (1340×775×1690)×3	10500+16500×3	110	Φ22.2	Φ44.5	23.5+49+49+49	25+50+50+50	220+355×3
78	GMV-2180WM/H1-X		218.0	244.5	930×775×1690+ (1340×775×1690)×3	11100+16500×3	110	Φ22.2	Φ44.5	24.1+49+49+49	25+50+50+50	240+355×3
80	GMV-2245WM/H1-X		224.5	252.0	(1340×775×1690)×4	13500+16500×3	110	Φ22.2	Φ44.5	37.5+49+49+49	40+50+50+50	300+355×3
82	GMV-2295WM/H1-X		229.5	257.0	(1340×775×1690)×4	15400+16500×3	110	Φ22.2	Φ44.5	39.3+49+49+49	40+50+50+50	300+355×3
84	GMV-2349WM/H1-X		234.9	263.5	(1340×775×1690)×4	16000+16500×3	110	Φ22.2	Φ44.5	47+49+49+49	50+50+50+50	350+355×3
86	GMV-2405WM/H1-X		240.5	270.0	(1340×775×1690)×4	16500×4	110	Φ22.2	Φ44.5	48+49+49+49	50+50+50+50	350+355×3
88	GMV-2460WM/H1-X		246.0	276.0	(1340×775×1690)×4	16500×4	110	Φ22.2	Φ44.5	49+49+49+49	50+50+50+50	355×4

GMV X Outdoor Specifications

Model			GMV-224WM/B-X(P)	GMV-280WM/B-X(P)	GMV-335WM/B-X(P)	GMV-400WM/B-X(P)	GMV-450WM/B-X(P)
Capacity range		HP	8	10	12	14	16
Cooling capacity		kW	22.4	28.0	33.5	40.0	45.0
Heating capacity		kW	25.0	31.5	37.5	45.0	50.0
EER		W/W	4.55	4.30	4.14	4.14	3.97
COP		W/W	5.23	5.08	4.58	4.51	4.45
Power supply		V/Ph/Hz	380-415V 3N~ 50/60Hz				
Min. circuit/Max. fuse current		A	19.9/20.0	22.4/25.0	23.3/25.0	28.8/32.0	31.0/32.0
Power consumption	Cooling	kW	4.92	6.51	8.09	9.66	11.34
	Heating	kW	4.78	6.20	8.19	9.98	11.24
Airflow volume		m^3/h	9750	10500	11100	13500	15400
ESP		Pa	80	80	80	80	80
Max.drive IDU NO.		unit	13	16	19	23	26
Sound pressure level		dB(A)	58	59	61	61	62
Refrigerant charge volume		kg	5	5	5.2	6.5	7
Connecting pipe	Liquid	mm	Φ9.52	Φ9.52	Φ12.7	Φ12.7	Φ12.7
	Gas	mm	Φ19.05	Φ22.2	Φ25.4	Φ25.4	Φ28.6
Dimension (W × D × H)	Outline	mm	930 × 775 × 1690	930 × 775 × 1690	930 × 775 × 1690	1340 × 775 × 1690	1340 × 775 × 1690
	Package	mm	1000 × 830 × 1855	1000 × 830 × 1855	1000 × 830 × 1855	1400 × 830 × 1855	1400 × 830 × 1855
Net weight/Gross weight		kg	210/220	210/220	215/225	280/295	280/295
Loading quantity	40' GP	unit	28	28	28	22	22
	40' HQ	unit	28	28	28	22	22

Model			GMV-504WM/B-X(P)	GMV-560WM/B-X(P)	GMV-615WM/B-X(P)	GMV-680WM/B-X(P)	GMV-730WM/B-X(P)
Capacity range		HP	18	20	22	24	26
Cooling capacity		kW	50.4	56.0	61.5	68.0	73.0
Heating capacity		kW	56.5	63.0	69.0	76.0	82.5
EER		W/W	3.90	3.86	3.62	3.32	3.42
COP		W/W	4.17	4.13	3.89	3.60	3.78
Power supply		V/Ph/Hz	380-415V 3N~ 50/60Hz				
Min. circuit/Max. fuse current		A	31.5/40.0	39.3/40.0	46.1/50.0	46.1/50.0	49.3/63.0
Power consumption	Cooling	kW	12.92	14.49	17.01	20.50	21.50
	Heating	kW	13.55	15.25	17.75	21.11	21.80
Airflow volume		m^3/h	16000	16500	16500	16500	26000
ESP		Pa	80	80	80	80	50*
Max.drive IDU NO.		unit	29	33	36	39	43
Sound pressure level		dB(A)	63	64	65	66	66
Refrigerant charge volume		kg	7.5	7.5	7.8	7.8	11
Connecting pipe	Liquid	mm	Φ15.9	Φ15.9	Φ15.9	Φ15.9	Φ19.05
	Gas	mm	Φ28.6	Φ28.6	Φ28.6	Φ28.6	Φ31.8
Dimension (W × D × H)	Outline	mm	1340 × 775 × 1690	1340 × 775 × 1690	1340 × 775 × 1690	1340 × 775 × 1690	1760 × 835 × 1795
	Package	mm	1400 × 830 × 1855	1400 × 830 × 1855	1400 × 830 × 1855	1400 × 830 × 1855	1828 × 913 × 1986
Net weight/Gross weight		kg	285/300	325/340	325/340	325/340	425/450
Loading quantity	40' GP	unit	22	22	22	22	13
	40' HQ	unit	22	22	22	22	13

Notes:
1. Cooling Capacity: Indoor temp.: 27℃ DB, 19℃ WB, Outdoor temp.: 35℃ DB, Equivalent piping length: 7.5 m, Level difference: 0 m.
Heating Capacity: Indoor temp.: 20℃ DB, Outdoor temp.: 7℃ DB, 6℃ WB, Equivalent piping length: 7.5 m, Level difference: 0 m.
2. Sound Pressure Level: Anechoic chamber conversion value, measured at a position in front of the unit in a semi-anechoic room.
During actual operation, the value may be higher due to ambient noise and echoes of the installation conditions.
3. For the model of GMV-730~1010WM/B-X(P), customized engineering service is needed if the outdoor static pressure is more than 0Pa.

GMV X Outdoor Specifications

Model			GMV-785WM/B-X(P)	GMV-850WM/B-X(P)	GMV-900WM/B-X(P)	GMV-952WM/B-X(P)	GMV-1010WM/B-X(P)
Capacity range		HP	28	30	32	34	36
Cooling capacity		kW	78.5	85.0	90.0	95.2	101.0
Heating capacity		kW	87.5	95.0	100.0	106.0	112.0
EER		W/W	3.27	3.20	3.14	3.08	3.01
COP		W/W	3.60	3.52	3.39	3.35	3.27
Power supply		V/Ph/Hz	380-415V 3N~ 50/60Hz				
Min. circuit/Max. fuse current		A	52.2/63.0	57.2/63.0	58.7/63.0	60.1/63.0	61.8/63.0
Power consumption	Cooling	kW	24.00	26.60	28.70	30.90	33.60
	Heating	kW	24.30	27.00	29.50	31.60	34.20
Airflow volume		m^3/h	26000	26000	28000	28000	28000
ESP		Pa	50*	50*	50*	50*	50*
Max.drive IDU NO.		unit	46	50	53	56	59
Sound pressure level		dB(A)	67	67	68	68	69
Refrigerant charge volume		kg	11	11	12	12	12
Connecting pipe	Liquid	mm	Φ19.05	Φ19.05	Φ19.05	Φ19.05	Φ19.05
	Gas	mm	Φ31.8	Φ31.8	Φ31.8	Φ31.8	Φ38.1
Dimension (W × D × H)	Outline	mm	1760 × 835 × 1795	1760 × 835 × 1795	1760 × 835 × 1795	1760 × 835 × 1795	1760 × 835 × 1795
	Package	mm	1828 × 913 × 1986	1828 × 913 × 1986	1828 × 913 × 1986	1828 × 913 × 1986	1828 × 913 × 1986
Net weight/Gross weight		kg	425/450	425/450	455/480	455/480	455/480
Loading quantity	40' GP	unit	13	13	13	13	13
	40' HQ	unit	13	13	13	13	13

Notes:
1. Cooling Capacity: Indoor temp.: 27℃ DB, 19℃ WB, Outdoor temp.: 35℃ DB, Equivalent piping length: 7.5 m, Level difference: 0 m.
Heating Capacity: Indoor temp.: 20℃ DB, Outdoor temp.: 7℃ DB, 6℃ WB, Equivalent piping length: 7.5 m, Level difference: 0 m.
2. Sound Pressure Level: Anechoic chamber conversion value, measured at a position in front of the unit in a semi-anechoic room.
During actual operation, the value may be higher due to ambient noise and echoes of the installation conditions.
3. For the model of GMV-730~1010WM/B-X(P), customized engineering service is needed if the outdoor static pressure is more than 0Pa.

GMV X Outdoor Combination Lineup

HP	Model	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36
8	GMV-224WM/B-X(P)	●														
10	GMV-280WM/B-X(P)		●													
12	GMV-335WM/B-X(P)			●												
14	GMV-400WM/B-X(P)				●											
16	GMV-450WM/B-X(P)					●										
18	GMV-504WM/B-X(P)						●									
20	GMV-560WM/B-X(P)							●								
22	GMV-615WM/B-X(P)								●							
24	GMV-680WM/B-X(P)									●						
26	GMV-730WM/B-X(P)										●					
28	GMV-785WM/B-X(P)											●				
30	GMV-850WM/B-X(P)												●			
32	GMV-900WM/B-X(P)													●		
34	GMV-952WM/B-X(P)														●	
36	GMV-1010WM/B-X(P)															●
38	GMV-1065WM/B-X(P)					●			●							
40	GMV-1119WM/B-X(P)						●		●							
42	GMV-1184WM/B-X(P)						●			●						
44	GMV-1230WM/B-X(P)								●●							
46	GMV-1295WM/B-X(P)								●	●						
48	GMV-1360WM/B-X(P)									●●						
50	GMV-1410WM/B-X(P)							●					●			
52	GMV-1465WM/B-X(P)								●				●			
54	GMV-1530WM/B-X(P)									●			●			
56	GMV-1580WM/B-X(P)									●				●		
58	GMV-1635WM/B-X(P)											●	●			
60	GMV-1700WM/B-X(P)												●●			
62	GMV-1750WM/B-X(P)												●	●		
64	GMV-1795WM/B-X(P)											●				●
66	GMV-1860WM/B-X(P)												●			●
68	GMV-1910WM/B-X(P)													●		●
70	GMV-1962WM/B-X(P)														●	●
72	GMV-2020WM/B-X(P)															●●
74	GMV-2080WM/B-X(P)								●●				●			
76	GMV-2145WM/B-X(P)								●	●			●			
78	GMV-2210WM/B-X(P)									●●			●			
80	GMV-2240WM/B-X(P)								●●							●
82	GMV-2312WM/B-X(P)									●●					●	
84	GMV-2370WM/B-X(P)									●●						●
86	GMV-2430WM/B-X(P)									●			●	●		
88	GMV-2480WM/B-X(P)									●				●●		
90	GMV-2532WM/B-X(P)									●				●	●	
92	GMV-2584WM/B-X(P)									●					●●	
94	GMV-2642WM/B-X(P)									●					●	●
96	GMV-2700WM/B-X(P)									●						●●
98	GMV-2754WM/B-X(P)												●		●●	
100	GMV-2812WM/B-X(P)												●		●	●
102	GMV-2870WM/B-X(P)												●			●●
104	GMV-2920WM/B-X(P)													●		●●
106	GMV-2972WM/B-X(P)														●	●●
108	GMV-3030WM/B-X(P)															●●●
110	GMV-3110WM/B-X(P)									●●			●	●		
112	GMV-3160WM/B-X(P)									●●				●●		
114	GMV-3195WM/B-X(P)							●	●							●●
116	GMV-3250WM/B-X(P)								●●							●●
118	GMV-3315WM/B-X(P)								●	●						●●
120	GMV-3380WM/B-X(P)									●●						●●
122	GMV-3430WM/B-X(P)										●			●●●		
124	GMV-3485WM/B-X(P)											●		●●●		
126	GMV-3550WM/B-X(P)												●	●●●		
128	GMV-3600WM/B-X(P)													●●●●		

GMV X Outdoor Combination Specifications

HP	Model	Power supply	Capacity		Power input		Dimension(W × D × H)	Airflow volume	ESP	Connecting pipe		Min.circuit current	Max. fuse current	Net weight
			Cooling	Heating	Cooling	Heating				Liquid	Gas			
			kW	kW	kW	kW	mm	m^3/h	Pa	mm	mm	A	A	kg
38	GMV-1065WM/B-X(P)	380-415V 3N~ 50/60Hz	106.5	119.0	28.35	28.99	(1340 × 775 × 1690) × 2	15400+16500	50	Φ19.05	Φ38.1	31.0+46.1	32+50	280+325
40	GMV-1119WM/B-X(P)		111.9	125.5	29.93	31.30	(1340 × 775 × 1690) × 2	16000+16500	50	Φ19.05	Φ38.1	31.5+46.1	40+50	285+325
42	GMV-1184WM/B-X(P)		118.4	132.5	33.42	34.66	(1340 × 775 × 1690) × 2	16000+16500	50	Φ19.05	Φ38.1	31.5+46.1	40+50	285+325
44	GMV-1230WM/B-X(P)		123.0	138.0	34.02	35.50	(1340 × 775 × 1690) × 2	16500+16500	50	Φ19.05	Φ38.1	46.1+46.1	50+50	325 × 2
46	GMV-1295WM/B-X(P)		129.5	145.0	37.51	38.86	(1340 × 775 × 1690) × 2	16500 × 2	50	Φ19.05	Φ38.1	46.1+46.1	50+50	325 × 2
48	GMV-1360WM/B-X(P)		136.0	152.0	41.00	42.22	(1340 × 775 × 1690) × 2	16500 × 2	50	Φ19.05	Φ38.1	46.1+46.1	50+50	325 × 2
50	GMV-1410WM/B-X(P)		141.0	158.0	41.09	42.25	(1340 × 775 × 1690) +(1760 × 835 × 1795)	16500+26000	50	Φ19.05	Φ41.3	39.3+57.2	40+63	325+425
52	GMV-1465WM/B-X(P)		146.5	164.0	43.61	44.75	(1340 × 775 × 1690) +(1760 × 835 × 1795)	16500+26000	50	Φ19.05	Φ41.3	46.1+57.2	50+63	325+425
54	GMV-1530WM/B-X(P)		153.0	171.0	47.10	48.11	(1340 × 775 × 1690) +(1760 × 835 × 1795)	16500+26000	50	Φ19.05	Φ41.3	46.1+57.2	50+63	325+425
56	GMV-1580WM/B-X(P)		158.0	176.0	49.20	50.61	(1340 × 775 × 1690) +(1760 × 835 × 1795)	16500+28000	50	Φ19.05	Φ41.3	46.1+58.7	50+63	325+455
58	GMV-1635WM/B-X(P)		163.5	182.5	50.60	51.30	(1760 × 835 × 1795) × 2	26000 × 2	50	Φ19.05	Φ41.3	52.2+57.2	63+63	425 × 2
60	GMV-1700WM/B-X(P)		170.0	190.0	53.20	54.00	(1760 × 835 × 1795) × 2	26000 × 2	50	Φ19.05	Φ41.3	57.2+57.2	63+63	425 × 2
62	GMV-1750WM/B-X(P)		175.0	195.0	55.30	56.50	(1760 × 835 × 1795) × 2	26000+28000	50	Φ19.05	Φ41.3	57.2+58.7	63+63	425+455
64	GMV-1795WM/B-X(P)		179.5	199.5	57.60	58.50	(1760 × 835 × 1795) × 2	26000+28000	50	Φ19.05	Φ41.3	52.2+61.8	63+63	425+455
66	GMV-1860WM/B-X(P)		186.0	207.0	60.20	61.20	(1760 × 835 × 1795) × 2	26000+28000	50	Φ19.05	Φ41.3	57.2+61.8	63+63	425+455
68	GMV-1910WM/B-X(P)		191.0	212.0	62.30	63.70	(1760 × 835 × 1795) × 2	28000 × 2	50	Φ22.2	Φ44.5	58.7+61.8	63+63	455 × 2
70	GMV-1962WM/B-X(P)		196.2	218.0	64.50	65.80	(1760 × 835 × 1795) × 2	28000 × 2	50	Φ22.2	Φ44.5	60.1+61.8	63+63	455 × 2
72	GMV-2020WM/B-X(P)		202.0	224.0	67.20	68.40	(1760 × 835 × 1795) × 2	28000 × 2	50	Φ22.2	Φ44.5	61.8+61.8	63+63	455 × 2
74	GMV-2080WM/B-X(P)		208.0	233.0	60.62	62.50	(1340 × 775 × 1690) × 2+(1760 × 835 × 1795)	16500 × 2+26000	50	Φ22.2	Φ44.5	46.1+46.1 +57.2	50+50+63	325 × 2+425
76	GMV-2145WM/B-X(P)		214.5	240.0	64.11	65.86	(1340 × 775 × 1690) × 2+(1760 × 835 × 1795)	16500 × 2+26000	50	Φ22.2	Φ44.5	46.1+46.1 +57.2	50+50+63	325 × 2+425
78	GMV-2210WM/B-X(P)		221.0	247.0	67.60	69.22	(1340 × 775 × 1690) × 2+(1760 × 835 × 1795)	16500 × 2+26000	50	Φ22.2	Φ44.5	46.1+46.1 +57.2	50+50+63	325 × 2+425
80	GMV-2240WM/B-X(P)		224.0	250.0	67.62	69.70	(1340 × 775 × 1690) × 2+(1760 × 835 × 1795)	16500 × 2+28000	50	Φ22.2	Φ44.5	46.1+46.1 +61.8	50+50+63	325 × 2+455
82	GMV-2312WM/B-X(P)		231.2	258.0	71.90	73.82	(1340 × 775 × 1690) × 2+(1760 × 835 × 1795)	16500 × 2+28000	50	Φ22.2	Φ44.5	46.1+46.1 +60.1	50+50+63	325 × 2+455

GMV X Outdoor Combination Specifications

HP	Model	Power supply	Capacity		Power input		Dimension(W × D × H)	Airflow volume	ESP	Connecting pipe		Min.circuit current	Max. fuse current	Net weight
			Cooling	Heating	Cooling	Heating				Liquid	Gas			
			kW	kW	kW	kW	mm	m^3/h	Pa	mm	mm	A	A	kg
84	GMV-2370WM/B-X(P)	380-415V 3N~ 50/60Hz	237.0	264.0	74.60	76.42	(1340 × 775 × 1690) × 2+(1760 × 835 × 1795)	16500 × 2+28000	50	Φ22.2	Φ44.5	46.1+46.1 +61.8	50+50+63	325 × 2+455
86	GMV-2430WM/B-X(P)		243.0	271.0	75.80	77.61	(1340 × 775 × 1690)+ (1760 × 835 × 1795) × 2	16500+26000 +28000	50	Φ22.2	Φ44.5	46.1+57.2 +58.7	50+63+63	325+425+455
88	GMV-2480WM/B-X(P)		248.0	276.0	77.90	80.11	(1340 × 775 × 1690)+ (1760 × 835 × 1795) × 2	16500+28000 × 2	50	Φ22.2	Φ44.5	46.1+58.7 +58.7	50+63+63	325+455 × 2
90	GMV-2532WM/B-X(P)		253.2	282.0	80.10	82.21	(1340 × 775 × 1690)+ (1760 × 835 × 1795) × 2	16500+28000 × 2	50	Φ22.2	Φ44.5	46.1+58.7 +60.1	50+63+63	325+455 × 2
92	GMV-2584WM/B-X(P)		258.4	288.0	82.30	84.31	(1340 × 775 × 1690)+ (1760 × 835 × 1795) × 2	16500+28000 × 2	50	Φ22.2	Φ44.5	46.1+60.1 +60.1	50+63+63	325+455 × 2
94	GMV-2642WM/B-X(P)		264.2	294.0	85.00	86.91	(1340 × 775 × 1690)+ (1760 × 835 × 1795) × 2	16500+28000 × 2	50	Φ22.2	Φ44.5	46.1+60.1 +61.8	50+63+63	325+455 × 2
96	GMV-2700WM/B-X(P)		270.0	300.0	87.70	89.51	(1340 × 775 × 1690)+ (1760 × 835 × 1795) × 2	16500+28000 × 2	50	Φ22.2	Φ44.5	46.1+61.8+61.8	50+63+63	325+455 × 2
98	GMV-2754WM/B-X(P)		275.4	307.0	88.40	90.20	(1760 × 835 × 1795) × 3	26000+28000 × 2	50	Φ25.4	Φ51.4	57.2+60.1+60.1	63+63+63	425+455 × 2
100	GMV-2812WM/B-X(P)		281.2	313.0	91.10	92.80	(1760 × 835 × 1795) × 3	26000+28000 × 2	50	Φ25.4	Φ51.4	57.2+60.1+61.8	63+63+63	425+455 × 2
102	GMV-2870WM/B-X(P)		287.0	319.0	93.80	95.40	(1760 × 835 × 1795) × 3	26000+28000 × 2	50	Φ25.4	Φ51.4	57.2+61.8+61.8	63+63+63	425+455 × 2
104	GMV-2920WM/B-X(P)		292.0	324.0	95.90	97.90	(1760 × 835 × 1795) × 3	28000 × 3	50	Φ25.4	Φ51.4	58.7+61.8+61.8	63+63+63	455 × 3
106	GMV-2972WM/B-X(P)		297.2	330.0	98.10	100.00	(1760 × 835 × 1795) × 3	28000 × 3	50	Φ25.4	Φ51.4	60.1+61.8+61.8	63+63+63	455 × 3
108	GMV-3030WM/B-X(P)		303.0	336.0	100.80	102.60	(1760 × 835 × 1795) × 3	28000 × 3	50	Φ25.4	Φ51.4	61.8+61.8+61.8	63+63+63	455 × 3
110	GMV-3110WM/B-X(P)		311.0	347.0	96.30	98.72	(1340 × 775 × 1690) × 2 +(1760 × 835 × 1795) × 2	16500 × 2+ 26000+28000	50	Φ25.4	Φ51.4	46.1+46.1 +57.2+58.7	50+50 +63+63	325 × 2 +425+455
112	GMV-3160WM/B-X(P)		316.0	352.0	98.40	101.22	(1340 × 775 × 1690) × 2 +(1760 × 835 × 1795) × 2	16500 × 2 +28000 × 2	50	Φ25.4	Φ51.4	46.1+46.1 +58.7+58.7	50+50 +63+63	325 × 2 +455 × 2
114	GMV-3195WM/B-X(P)		319.5	356.0	98.70	101.40	(1340 × 775 × 1690) × 2 +(1760 × 835 × 1795) × 2	16500 × 2 +28000 × 2	50	Φ25.4	Φ51.4	39.3+46.1 +61.8+61.8	40+50 +63+63	325 × 2 +455 × 2
116	GMV-3250WM/B-X(P)		325.0	362.0	101.22	103.90	(1340 × 775 × 1690) × 2 +(1760 × 835 × 1795) × 2	16500 × 2 +28000 × 2	50	Φ25.4	Φ51.4	46.1+46.1 +61.8+61.8	50+50 +63+63	325 × 2 +455 × 2
118	GMV-3315WM/B-X(P)		331.5	369.0	104.71	107.26	(1340 × 775 × 1690) × 2 +(1760 × 835 × 1795) × 2	16500 × 2 +28000 × 2	50	Φ25.4	Φ51.4	46.1+46.1 +61.8+61.8	50+50 +63+63	325 × 2 +455 × 2
120	GMV-3380WM/B-X(P)		338.0	376.0	108.20	110.62	(1340 × 775 × 1690) × 2 +(1760 × 835 × 1795) × 2	16500 × 2 +28000 × 2	50	Φ25.4	Φ51.4	46.1+46.1 +61.8+61.8	50+50 +63+63	325 × 2 +455 × 2
122	GMV-3430WM/B-X(P)		343.0	382.5	107.60	110.30	(1760 × 835 × 1795) × 4	26000+28000 × 3	50	Φ25.4	Φ51.4	49.3+58.7 +58.7+58.7	63+63 +63+63	425+455 × 3
124	GMV-3485WM/B-X(P)		348.5	387.5	110.10	112.80	(1760 × 835 × 1795) × 4	26000+28000 × 3	50	Φ25.4	Φ51.4	52.2+58.7 +58.7+58.7	63+63 +63+63	425+455 × 3
126	GMV-3550WM/B-X(P)		355.0	395.0	112.70	115.50	(1760 × 835 × 1795) × 4	26000+28000 × 3	50	Φ25.4	Φ51.4	57.2+58.7 +58.7+58.7	63+63 +63+63	425+455 × 3
128	GMV-3600WM/B-X(P)		360.0	400.0	114.80	118.00	(1760 × 835 × 1795) × 4	28000 × 4	50	Φ25.4	Φ51.4	58.7+58.7 +58.7+58.7	63+63 +63+63	455 × 4

GMV Slim(Side Discharge) & Mini Series

Slim & Mini

GMV mini Outdoor Units Lineup

(220-240V/50Hz & 380-415V/50Hz)

Capacity, in HP	Model	Appearance
4	GMV-120WL/C-T	
	GMV-120WL/C-X	
5	GMV-140WL/C-T	
	GMV-140WL/C-X	
6	GMV-160WL/C-T	
	GMV-160WL/C-X	

GMV Slim(Side Discharge) Outdoor Units Lineup

(380-415V, 50Hz)

Capacity, in HP	Model	Appearance
8	GMV-224WL/C-X	
10	GMV-280WL/C-X	
	GMV-280WL/C1-X	
12	GMV-335WL/C1-T	
	GMV-335WL/C-X	

Features of GMV Mini & Slim

Condor *VRF* Key Features

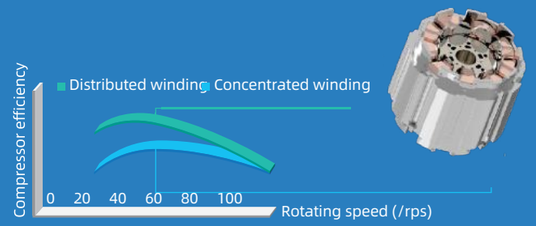
All DC Inverter Technology to Improve Compression Efficiency

All DC inverter compressor and high-performance high pressure chamber are adopted to reduce loss of overheat and improve compression efficiency from direct intake. Compared with low pressure chamber, the compression efficiency is improved. High-efficient permasyn motor is adopted to provide better performance than traditional DC inverter compressor.

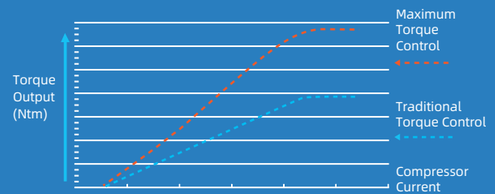
All DC Inverter Compressor

> All DC inverter compressor is used in this system.
It can directly intake gas to reduce loss of overheat and improve efficiency.

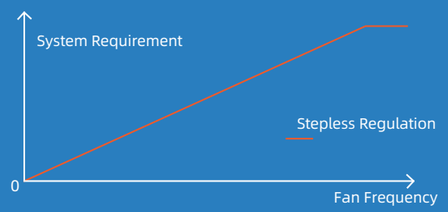
> High-efficient permasyn motor is adopted to provide better performance than traditional DC inverter compressor.



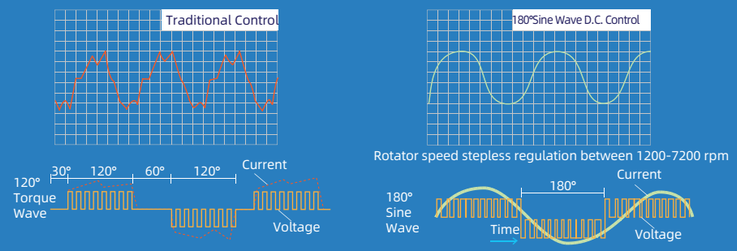
> Technology of Maximum Torque Control with Minimum Current
It can reduce energy loss caused by device winding so as to realize higher efficiency.



> Low-frequency Torque Control
It can directly control motor torque, through which fan motor can run at a low speed. Users will feel more comfortable while requirements of the system are also met.

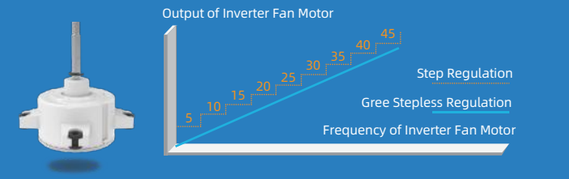


> 180 ° Sine Wave DC Speed Varying Technology.
It can satisfy various places' demands for different temperature and is able to save a great deal of electricity and provide users with utmost comfort at the same time.

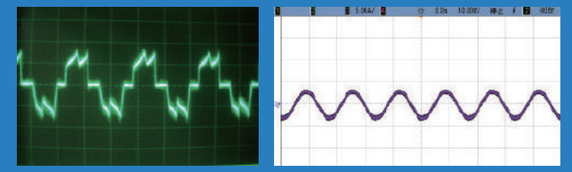


Sensorless DC Inverter Fan Motor

> Stepless speed regulation ranges from 5Hz to 44Hz. Compared with traditional inverter motors, the operation is more energy-saving.

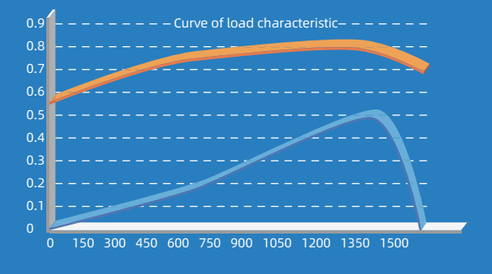


> Sensorless control technology guarantees lower noise, less vibration and steadier operation.



Sensorless DC Inverter Fan Motor

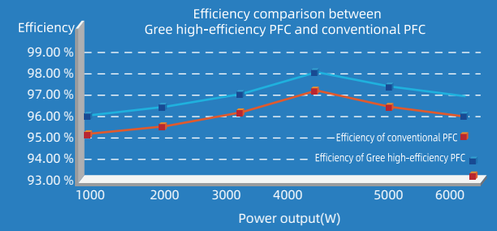
The indoor unit adopts high-efficiency brushless DC motor. Compared with conventional motor, the efficiency of brushless DC motor is improved by more than 30%. Meanwhile, the design of evaporation capacity flow is optimized through emulation software of refrigeration system and the heat exchange amount of evaporator is greatly improved.



High-efficiency Digital PFC Control *

High-efficiency PFC control technology is adopted with efficiency improved by about 1% compared with conventional PFC. For the air conditioner with rated power of 5kW, 50W of electricity can be saved every hour and 1.2kW of electricity can be saved every day.

*This feature is applicable for GMV5 Mini only.



Wider Operation Condition Range

The unit adopts DC motor with more accurate high pressure control, which effectively solves the high pressure control problem in low ambient temperature cooling. So the operation range in cooling is wider.

		
Company A	GMV5 Mini	GMV5 Slim
Cooling:10~48℃ Heating:-20~27℃	Cooling:-5~52℃ Heating:-20~27℃	Cooling:-5~52℃ Heating:-20~27℃

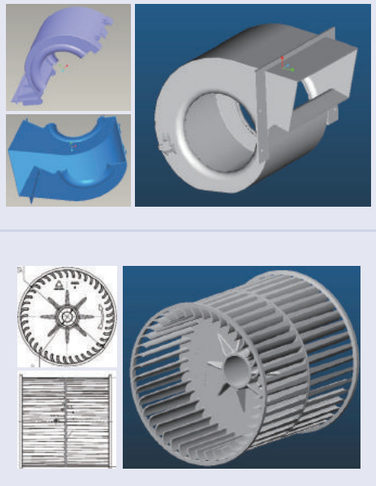
Condor Comfortable and *VRF* Quiet Mode

Low Noise of Outdoor Unit

> The advanced sub-cooling control technology is applied to reduce the liquid flow noise of indoor unit in cooling operation .

> Noise of outdoor unit can be as low as 45dB(A) thanks to noise optimized design or fan system and compressor system, and multiple kinds of quiet modes of outdoor unit .

Low Noise of Indoor Unit



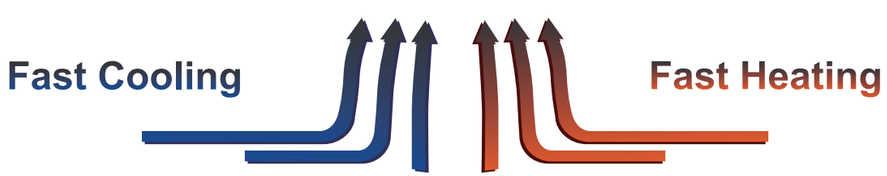
> The pioneering and patented high-efficiency centrifugal fan blade and low-noise volute are adopted. Meanwhile, the imported silent valve is adopted to reduce noise of entire unit as low as 22dB(A) .

> By adopting the optimal inlet angle of centrifugal fan blade and optimal diameter ratio between inte r-nal and external circles of impeller, the air volume is increased and fan noise is decreased greatly.

> The advanced supercooling control technology and the oil-return technology under heating mode has efficiently solved the problem of liquid flow noise of indoor unit , which improved the sound quality of indoor unit .

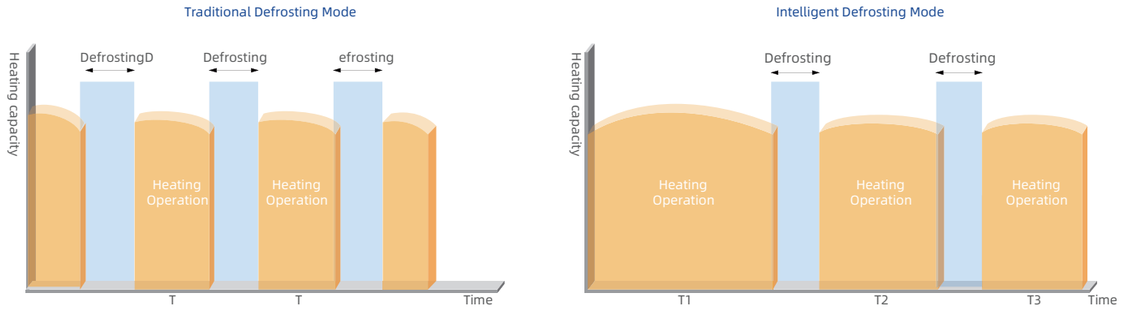
Intelligent Temperature Control Technology

Intelligent temperature control technology is adopted for supe r fast cooling or heating, so that indoor temperature will reach set temperature more quickly .



Intelligent Defrosting Control

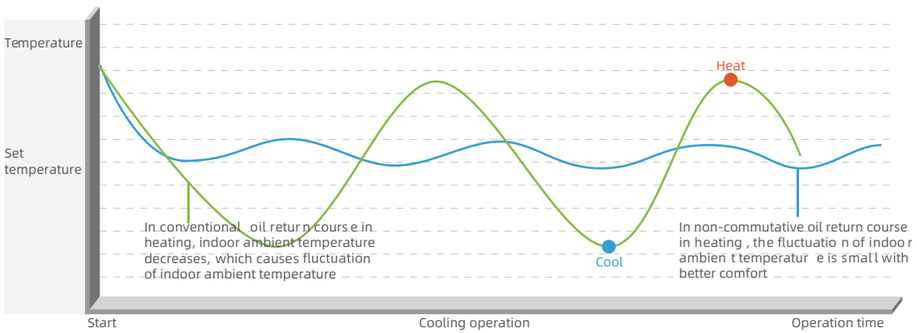
During the heating process, the frost status of the unit will be different after affecting by factors of outdoor ambient temperature, load status and operation time. Through real-time detection of operation parameters of the system, it can decide the defrosting time by intelligently estimating the thickness of frost, high pressure of system and block - age status of heat exchanger.



Note: This feature is fit for heat pump models only.

Non-commutative Oil Return Technology in Heating

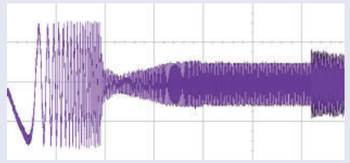
The unit can achieve non-commutative oil return in heating whe n outdoor ambient temperature is within 0~20℃. Thanks to this technology, indoor ambient temperature is more stable and comfort is improved in heating mode.



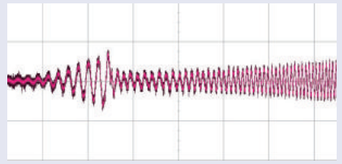
Condor *VRF* Reliable Operation

Compressor Closed-loop Startup Technology with More Reliable Startup

The self-innovative closed-loop startup control technology is a dopted. Thanks to this technology, the startup current is small and startup is more reliable.



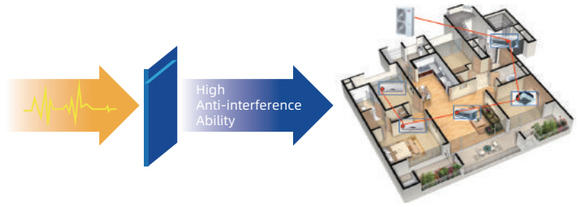
Conventional startup mod eG



ree closed-loop startup mode

High Anti-interference Ability

The latest CAN bus communication technology is ad - opted, with non-polar communication and high a n- ti-interference ability. Common communication wire can meet the communication demand with no need of specialized shielded wire. The customers can buy the communication wire by themselves, greatly reducing installation difficulties.

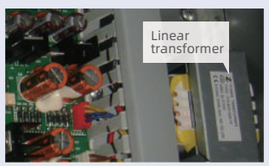


Advanced High-frequency Trans- former with More Stable Voltage

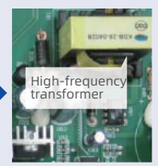
> The advanced switching power supply is adopted with lower power consumption and higher power efficiency.
> Wide voltage-regulation range ensures stable vol- tage output when the voltage of grid fluctuates.
> Compared with conventional transformer, the size of high-frequency transformer is small and the weight is light .

Refrigerant Cooling Technology

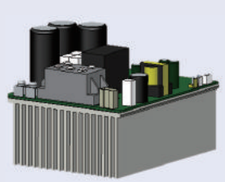
> Usually, air-cooled fins are adopted for heat radia- tion. Due to large size and passive radiation, heat radiating effect is unsatisfactory; with refrigerant cooling technology, heat radiating effect is much better because of compact structure and active rad i- ation. Module temperature is dropped from 80℃ to 65℃, which will increase module life and stability .



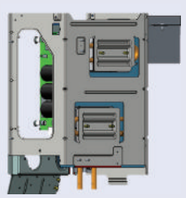
Linear power supply
(linear inverter
+
voltage-regulation chip)



Switching power supply
(high-frequency inverter
+
switching chip)



Common heat radiation



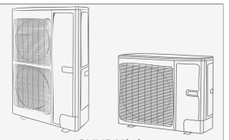
Refrigerant cooling

Note: These units with the cooling capacity of 3~4HP use wind for heat dissipation.

Condor *VRF* Easy Installation and Transportation

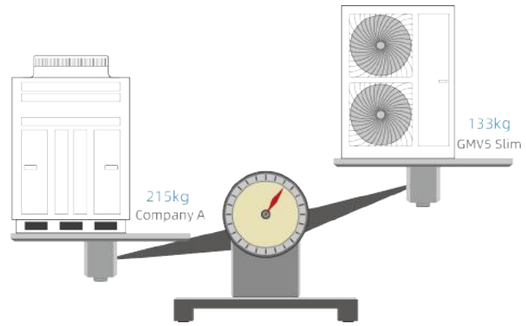
Ultra-long Connecting Pipe for More Convenient Connection

Under the subcooling control technology gained by adding subcooler, the indoor unit and outdoor unit of GMV5 mini can operate reliably with longer con- necting pipe.

	 Company A	 GMV5 Slim	 GMV5 Mini	
Total piping length	150m	300m	300m	250m
Equivalent piping length	70m	150m	150m	120m

Top Advanced Light and Compact Size

GMV5 Slim adopts small and compact size design. The dimension o f the unit is 1430(H)×940(W)×320(D). Compared with the normal product with the same capacity, size and weigh t are reduced a lot.

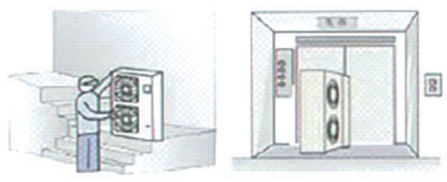


Easy Installation with Lower Construction Cost

The outdoor unit of GMV5 Slim is with small size and light weight. Do not need a fork lifter or crane for transit and installation .

Movement by Stairs and Elevator

The outdoor unit of GMV5 Slim is designed with co m- pact size for space saving and easy transit. It can be carried by an elevator or stairs .



GMV Mini: Technical Specifications
50Hz (220-240V & 208-230V)

Heat Pump

Model			GMV-80WL/C-T	GMV-100WL/C-T
Capacity range		HP	3	3.5
Capacity	Cooling	kW	8	10
	Heating	kW	9	11
EER		W/W	3.90	3.70
COP		W/W	4.74	4.40
Power supply		V/Ph/Hz	220-240V~ 50Hz & 208-230V~ 60Hz	
Max. circuit/Fuse current		A	25	25
Power comsumption	Cooling	kW	2.05	2.7
	Heating	kW	1.9	2.5
Maximum drive IDU NO.		unit	4	5
Refrigerant charge volume		kg	1.8	1.8
Sound pressure level		dB(A)	56	56
Connecting pipe	Liquid	mm	Φ9.52	Φ9.52
	Gas	mm	Φ15.9	Φ15.9
Dimension(W×D×H)	Outline	mm	980×360×790	980×360×790
	Package	mm	1097×477×937	1097×477×937
Net weight/Gros weight		kg	80/90	80/90
Loading quantity	40' GP	unit	96	96
	40' HQ	unit	96	96

Note: The ODU operation temperature range is -5~52 ℃ in cooling and -20~27 ℃ in heating.

Heat Pump

Model			GMV-120WL/C-T*	GMV-140WL/C-T*	GMV-160WL/C-T*
Capacity range		HP	4	5	6
Cooling capacity	Rated	kW	12.1	14.0	16.0
	Max.	kW	12.1	14.0	16.0
Heating capacity	Rated	kW	12.1	14.0	16.0
	Max.	kW	14.0	16.5	18.0
SEER	Ducted	-	6.70	6.88	6.96
	Cassette	-	6.70	6.79	6.55
SCOP	Ducted	-	3.97	4.24	4.04
	Cassette	-	3.93	4.24	4.06
Power supply		V/Ph/Hz	220-240V~ 50Hz & 208-230V~ 60Hz		
Min.circuit/Max.fuse current		A	33.7/40.0	33.7/40.0	36.3/40.0
Maximum drive IDU NO		unit	7	8	9
Refrigerant charge volume		kg	3.3	3.3	3.3
Sound power level(cooing)	Ducted	dB(A)	74	75	75
	Cassette	dB(A)	72	73	76
Connecting pipe	Liquid	mm	Φ9.52	Φ9.52	Φ9.52
	Gas	mm	Φ15.9	Φ15.9	Φ19.05
Dimension(W×D×H)	Outline	mm	900×340×1345	900×340×1345	900×340×1345
	Package	mm	998×458×1500	998×458×1500	998×458×1500
Net weight/Gross weight		kg	112/123	112/123	112/123
Loading quantity	40' GP	unit	57	57	57
	40' HQ	unit	57	57	57

*Note: (1) The ODU operation temperature range is -5~52℃ in cooling and -20~27℃ in heating.
(2) Heating radiation by refrigerant.
(3) The data is Eurovent certified.

GMV Mini: Technical Specifications
50Hz (220-240V & 208-230V)

Heat Pump

Model			GMV-120WL/C-X*	GMV-140WL/C-X*	GMV-160WL/C-X*
Capacity range		HP	4	5	6
Cooling capacity	Rated	kW	12	14	16
	Max.	kW	12	14	16
Heating capacity	Rated	kW	12	14	16
	Max.	kW	14	16.5	18
SEER	Ducted	-	6.70	6.88	6.96
	Cassette	-	6.70	6.79	6.55
SCOP	Ducted	-	3.97	4.24	4.04
	Cassette	-	3.93	4.24	4.06
Power supply		V/Ph/Hz	380-415V 3N~ 50/60Hz		
Min.circuit/Max.fuse current		A	11.1/14.0	12.0/16.0	12.5/16.0
Maximum drive IDU NO		unit	7	8	9
Refrigerant charge volume		kg	3.3	3.3	3.3
Sound power level(cooing)	Ducted	dB(A)	74	75	75
	Cassette	dB(A)	72	73	76
Connecting pipe	Liquid	mm	Φ9.52	Φ9.52	Φ9.52
	Gas	mm	Φ15.9	Φ15.9	Φ19.05
Dimension(W×D×H)	Outline	mm	900×340×1345	900×340×1345	900×340×1345
	Package	mm	998×458×1500	998×458×1500	998×458×1500
Net weight/Gross weight		kg	122/133	122/133	122/133
Loading quantity	40' GP	unit	57	57	57
	40' HQ	unit	57	57	57

*Note: (1) The ODU operation temperature range is -5~52℃ in cooling and -20~27℃ in heating.
(2) The data is Eurovent certified.

GMV Slim: Technical Specifications
50Hz (380V-415V)

Heat Pump

Model			GMV-224WL/C-X*	GMV-280WL/C-X*	GMV-280WL/C1-X*	GMV-335WL/C-X*	GMV-335WL/C1-X*
Capacity range		HP	8	10	10	12	12
Cooling capacity	Ratedk	W	22.4	28.0	28.0	33.5	33.5
	Max.	kW	22.4	28.0	28.0	33.5	33.5
Heating capacity	Rated	kW	22.4	28.0	28.0	33.5	33.5
	Max.	kW	24.0	30.0	28.0	35.0	33.5
SEER	Ducted	-	6.85	6.16	6.36	6.98	7.16
	Cassette	-	6.82	6.15	6.28	6.14	6.29
SCOP	Ducted	-	4.27	4.59	4.68	4.58	4.69
	Cassette	-	4.31	4.43	4.53	4.04	4.16
Power supply		V/Ph/Hz	380-415V 3N~ 50/60Hz				
Min.circuit/Max.fuse current		A	17.2/20	22.4/25	22.5/25	24.5/32	24.5/32
Maximum drive IDU NO		unit	13	17	17	20	20
Refrigerant charge volume		kg	5.5	7.1	7.1	8.0	8.5
Sound power level(cooing)	Ducted	dB(A)	78	80	80	80	80
	Cassette	dB(A)	78	80	80	81	81
Connecting pipe	Liquid	mm	Φ9.52	Φ9.52	Φ9.52	Φ12.7	Φ12.7
	Gas	mm	Φ19.02	Φ22.2	Φ22.2	Φ25.4	Φ25.4
Dimension(W×D×H)	Outline	mm	940×320×1430	940×460×1615	940×460×1615	940×460×1615	940×460×1615
	Package	mm	1038×438×1580	1038×578×1765	1038×578×1765	1038×578×1765	1038×578×1765
Net weight/Gross weight		kg	133/144	166/183	163/17 5	177/194	174/187
Loading quantity	40' GPu	nit	56	44	44	44	44
	40' HQ	unit	56	44	44	44	44

*Note: (1) The ODU operation temperature range is -5~52℃ in cooling and -20~27℃ in heating.
(2) The data is Eurovent certified.

Everything is in
GMV6 Heat Recovery

GMV6 HR

Condor

Simultaneous cooling and heating

Hot water and floor heating

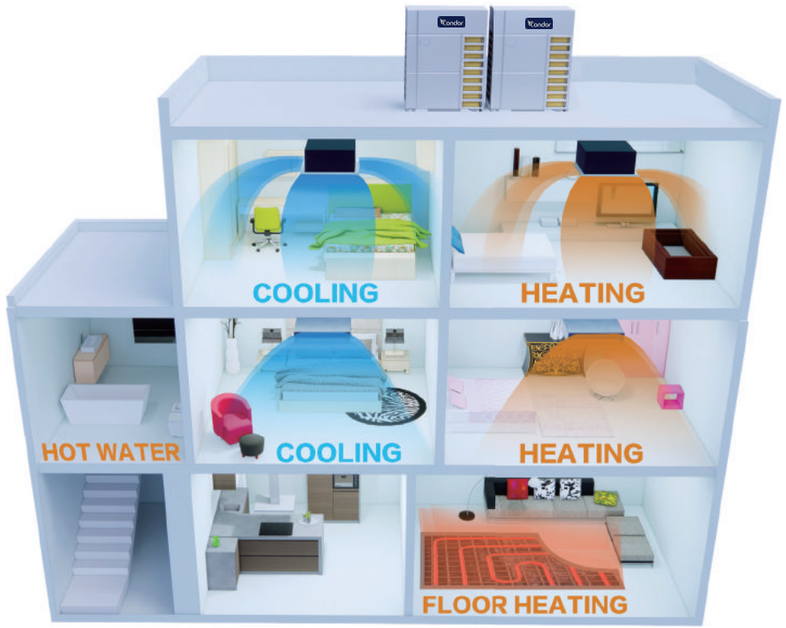
Fresh air

SCHE Max. 9.0

Continuous heating

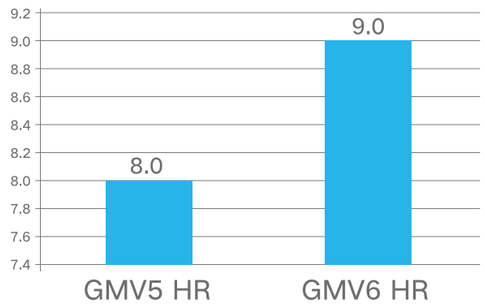
Multiple Functions in One Unit

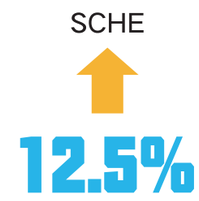
This unit can perform air cooling, air heating, and water heating simultaneously, satisfying customers' various needs for air conditioning, hot water and floor heating. It is a comprehensive solution for customers.



High Energy Efficiency - SCHE up to 9.0

It adopts heat recovery energy-saving control technology, high-efficiency enthalpy-adding DC inverter compressor and high-efficiency DC motor to optimize its capabilities. In the state of heat recovery, its comprehensive energy efficiency (SCHE*) can be 9.0, which is more energy-saving.



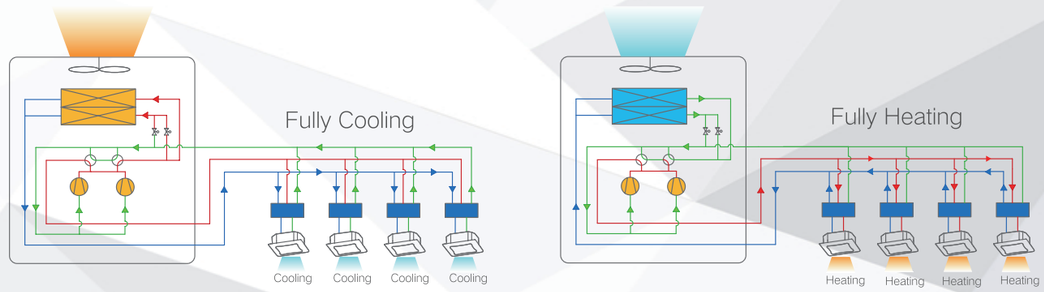


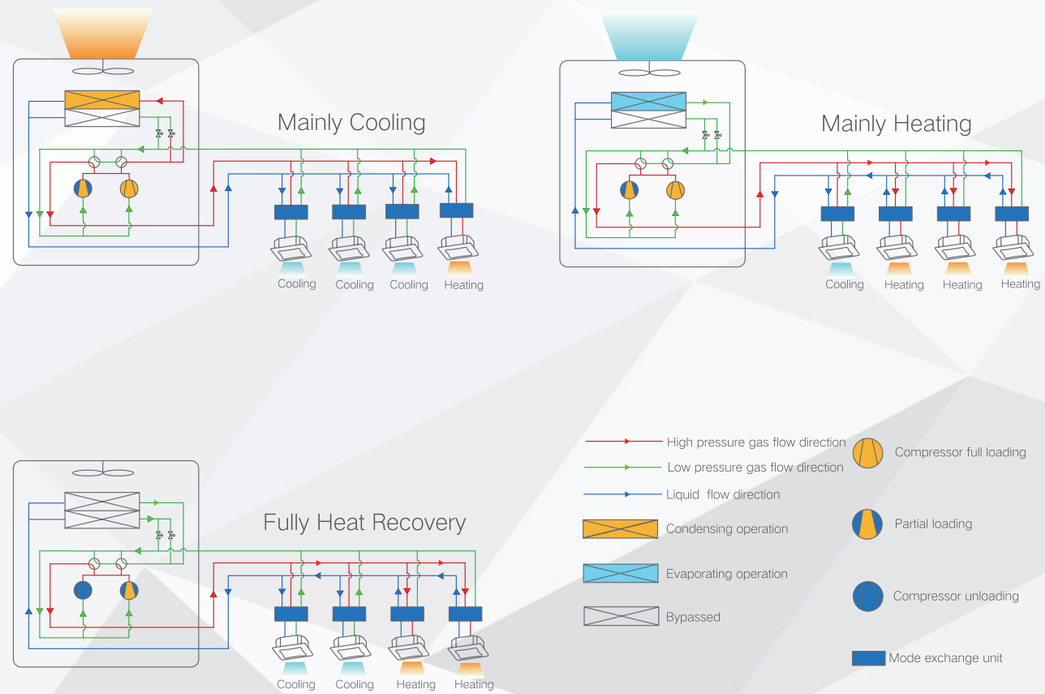
*SCHE (Simultaneous Cooling & Heating Efficiency): the ratio of the total capacity of the system (heating and cooling capacity) to the effective power when operating in heat recovery mode.

High Energy Efficiency

Five Operating Modes

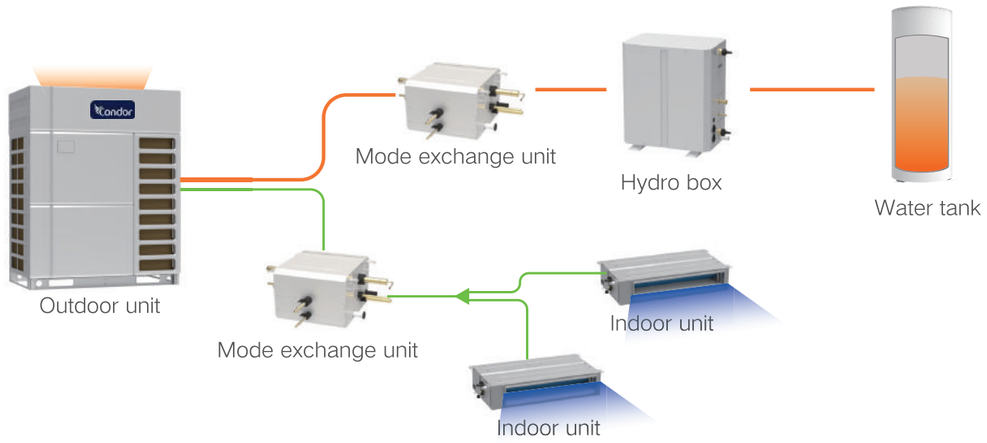
GMV6 heat recovery system enables multiple operation modes for meeting various needs of users. Among them, mainly cooling, mainly heating and fully heat recovery modes include heat recovery function. Under the heat recovery mode, the system can directly offer the cooling capacity absorbed at the heating side to the cooling side for reducing outdoor unit's capacity output to greatly improve the energy-saving effect.





Auto Heat Recovery Function of Cooling

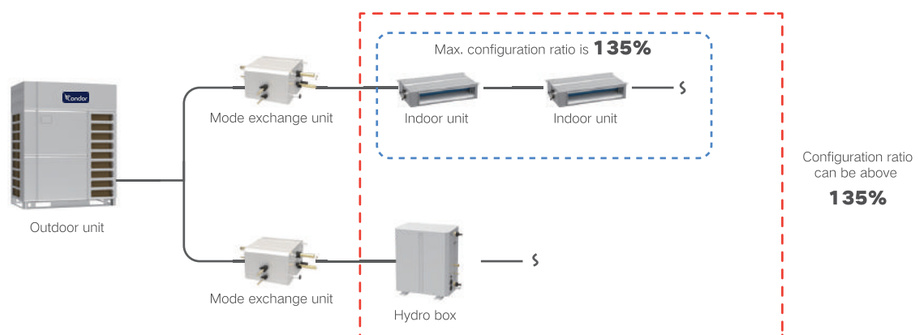
In summer, when the unit is in cooling mode, even if the hydro box is shut down, it can still recover waste heat according to the water temperature of the water tank, and transfer the heat to the water rather than discharge it into the atmosphere. In summer, you can enjoy not only cool air but also free hot water.



Note: This function defaults to be on before ex-factory. It can be turned off in setting.

High Configuration Ratio

Conventionally, we use the total capacity of indoor units and the hydro box to calculate the indoor and outdoor unit configuration ratio, without taking the use mode into consideration. In summer, users need air conditioners for cooling and hot water for bathing; while in winter, floor heating is also needed. GMV6 HR is designed in an unconventional way, for it has optimized the capacity allocation method in different modes and the hydro box can calculate the configuration ratio independently. The configuration ratio of indoor units is not counted and the cost of outdoor units is reduced.



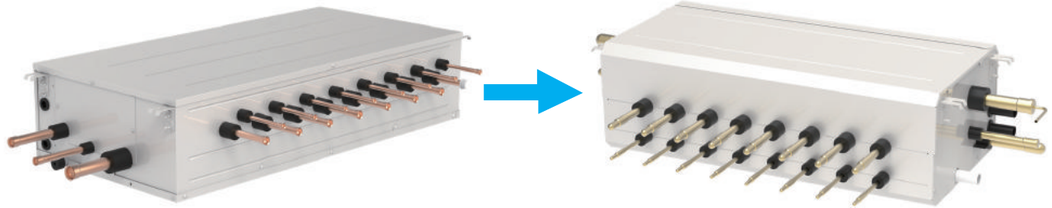
Note: If indoor units and hydro box run in heating at the same time, heating performance will be affected.

Mode Exchange Unit

Wide Capacity Range

The new generation mode exchange unit adopts high refrigerant flow design and the connectable indoor unit capacity is significantly increased. A maximum of 16kW can be connected to a single branch, which is 13% higher than before; and the maximum capacity connected to multiple branches is 85kW, which is 25% higher.

An increase of 13% in capacity allowed for a single branch; an increase of 25% in capacity allowed for a single mode exchange unit



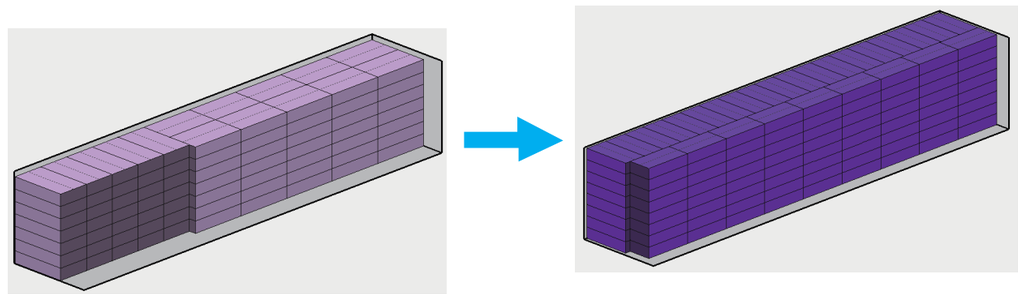
Note: For two branches in parallel, the maximum capacity of connectable indoor units is 28kW.

High-efficiency Sub-cooling Design

In a heat recovery system, refrigerant flow between indoor units may produce noise due to insufficient sub-cooling degree, which will affect the cooling performance. For our new generation mode exchange unit, it adopts a noise reduction design and the solenoid valve and electronic expansion valve are combined to realize intelligent control, which can provide sufficient sub-cooling degree for refrigerant in indoor units, ensuring the high-efficiency and low-noise operation of indoor units.

Compact Design

The new generation mode exchange unit has a brand new pipe structure, for which its size is 15% smaller, saving more installation space. The loading quantity is up by 70%.



Loading quantity (last generation)

Loading quantity (new generation)

Note: Limited to some models.

Mode Exchange Unit

Model	Product Appearance
NCHS1D	
NCHS2D	

Model	Product Appearance
NCHS4D	
NCHS8D	

Hydro Box

Model	Product Appearance
NRQR16L/A-T	
NRQR30L/A-T	

Outdoor Unit

Model			GMV-VQ224WM/C-X	GMV-VQ280WM/C-X	GMV-VQ335WM/C-X	GMV-VQ400WM/C-X	GMV-VQ450WM/C-X	GMV-VQ504WM/C-X	GMV-VQ560WM/C-X	GMV-VQ615WM/C-X
Capacity range		HP	8	10	12	14	16	18	20	22
Cooling capacity	Rated *	kW	22.4	28.0	33.5	40.0	45.0	50.4	52.0	52.0
	Max.	kW	22.4	28.0	33.5	40.0	45.0	50.4	56.0	61.5
Heating capacity	Rated *	kW	22.4	28.0	33.5	40.0	45.0	50.4	56.0	56.0
	Max.	kW	25.0	31.5	37.5	45.0	50.0	56.5	63.0	69.0
SEER	Ducted *	-	7.00	6.70	6.55	6.90	6.46	6.48	6.32	6.32
	Cassette *	-	7.24	6.45	6.66	6.18	6.15	6.68	6.35	6.35
SCOP	Ducted *	-	4.32	4.57	4.74	4.44	4.41	4.25	4.15	4.15
	Cassette *	-	4.29	4.43	4.37	4.44	4.50	4.34	4.34	4.34
Power supply		V/Ph/Hz	380~415V 3N~ 50/60Hz							
Min.circuit/Max. fuse current		A	23.0/25	23.5/25	24.1/25	37.5/40	39.3/40	47.0/50	48.0/50	49.0/50
Max. drive IDU NO.		unit	13	16	19	23	26	29	33	36
Refrigerant charge volume		kg	8.2	8.5	9.6	11.1	11.6	12.8	12.8	13.3
Sound pressure level(Cooling)		dB(A)	60	61	63	63	63	63	63	64
Sound power level(Cooling)	Ducted*	dB(A)	80	82	84	91	91	88	88	88
	Cassette*	dB(A)	80	84	86	87	94	87	89	89
Connecting pipe	Liquid	mm	Φ9.52	Φ9.52	Φ12.7	Φ12.7	Φ12.7	Φ15.9	Φ15.9	Φ15.9
	High pressure gas	mm	Φ15.9	Φ19.05	Φ19.05	Φ22.2	Φ22.2	Φ25.4	Φ25.4	Φ25.4
	Low pressure gas	mm	Φ19.05	Φ22.2	Φ25.4	Φ25.4	Φ28.6	Φ28.6	Φ28.6	Φ28.6
Dimension (W×D×H)	Outline	mm	930×775×1690	930×775×1690	930×775×1690	1340×775×1690	1340×775×1690	1340×775×1690	1340×775×1690	1340×775×1690
	Package	mm	1000×830×1855	1000×830×1855	1000×830×1855	1400×830×1855	1400×830×1855	1400×830×1855	1400×830×1855	1400×830×1855
Net weight/Gross weight		kg	243/253	243/253	256/266	325/340	325/340	385/400	385/400	385/400
Loading quantity	40' GP	set	28	28	28	22	22	22	22	22
	40' HQ	set	28	28	28	22	22	22	22	22

Note: The data is Eurovent certified.

Mode Exchange Unit

Model				NCHS1D	NCHS2D	NCHS4D	NCHS8D
Number of branches			unit	1	2	4	8
Max. number of connectable IDUs		Per branch	unit	8	8	8	8
		Total	unit	8	16	32	64
Max. capacity of connectable IDUs		Per branch	kW	16	16	16	16
		Total	kW	16	28	45	85
Power supply			V/Ph/Hz	220-240V ~ 50/60Hz			
Power comsumption		Cooling	W	14	25	32	90
		Heating	W	14	25	32	90
Piping connections	ODU	Liquid	mm	Φ9.52	Φ9.52	Φ12.7	Φ15.9
		High pressure gas	mm	Φ19.05	Φ19.05	Φ22.2	Φ22.2
		Low pressure gas	mm	Φ22.2	Φ22.2	Φ28.6	Φ28.6
	IDU	Liquid	mm	Φ6.35/9.52	Φ6.35/9.52	Φ6.35/9.52	Φ6.35/9.52
		Gas	mm	Φ12.7/15.9	Φ12.7/15.9	Φ12.7/15.9	Φ12.7/15.9
Dimension(W×D×H)		Outline	mm	340×388×250	340×388×250	460×388×250	784×388×250
		Package	mm	863×624×298	863×624×298	979×624×303	1300×624×288
Net weight/Gross weight			kg	12/17.5	14.5/20.5	20.6/27	33/42

Hydro Box

Model				NRQR16L/A-T	NRQR30L/A-T
Hot water heating capacity			kW	4.5(3.6~16)	4.5(3.6~30)
Max setting temperature of domestic hot water			°C	55(35~55)	55(35~55)
Floor heating capacity			kW	16	30
Max setting temperature of floor heating			°C	45(25~45)	45(25~45)
Power supply			V/Ph/Hz	220~240V-1ph-50Hz	220~240V-1ph-50Hz
				208~230V-1ph-60Hz	208~230V-1ph-60Hz
Heat exchanger		Type	-	Plate heat exchanger	Plate heat exchanger
		Quantity	-	1	1
		Rated water flow	L/min	46	86
		Pressure drop	kPa	27.5	38.5
Water system connection	Diameter of inlet/outlet water pipe		mm	Φ25	Φ25
	Thread specification		-	G1	G1
Refrigerant system connection	Gas pipe		mm	Φ15.9	Φ22.2
	Liquid pipe		mm	Φ9.52	Φ9.52
Outline dimension(W×D×H)			mm	515×330×606	515×330×606
Net weight			kg	36	40

GMV6 HR Outdoor Units Lineup

Model	GMV-VQ224WM/C-X	GMV-VQ280WM/C-X	GMV-VQ335WM/C-X	GMV-VQ400WM/C-X	GMV-VQ450WM/C-X	GMV-VQ504WM/C-X	GMV-VQ560WM/C-X	GMV-VQ615WM/C-X
GMV-VQ224WM/C-X	●							
GMV-VQ280WM/C-X		●						
GMV-VQ335WM/C-X			●					
GMV-VQ400WM/C-X				●				
GMV-VQ450WM/C-X					●			
GMV-VQ504WM/C-X						●		
GMV-VQ560WM/C-X							●	
GMV-VQ615WM/C-X								●
GMV-VQ680WM/C-X		●		●				
GMV-VQ730WM/C-X		●			●			
GMV-VQ784WM/C-X		●				●		
GMV-VQ840WM/C-X		●					●	
GMV-VQ895WM/C-X		●						●
GMV-VQ950WM/C-X			●					●
GMV-VQ1015WM/C-X				●				●
GMV-VQ1065WM/C-X					●			●
GMV-VQ1119WM/C-X						●		●
GMV-VQ1175WM/C-X							●	●
GMV-VQ1230WM/C-X								●●
GMV-VQ1290WM/C-X		●			●		●	
GMV-VQ1345WM/C-X		●			●			●
GMV-VQ1400WM/C-X			●		●			●
GMV-VQ1455WM/C-X		●					●	●
GMV-VQ1510WM/C-X		●						●●
GMV-VQ1565WM/C-X			●					●●
GMV-VQ1630WM/C-X				●				●●
GMV-VQ1680WM/C-X					●			●●
GMV-VQ1734WM/C-X						●		●●
GMV-VQ1790WM/C-X							●	●●
GMV-VQ1845WM/C-X								●●●
GMV-VQ1905WM/C-X		●			●		●	●
GMV-VQ1959WM/C-X		●				●	●	●
GMV-VQ2015WM/C-X		●					●●	●
GMV-VQ2070WM/C-X		●					●	●●
GMV-VQ2125WM/C-X		●						●●●
GMV-VQ2180WM/C-X			●					●●●
GMV-VQ2245WM/C-X				●				●●●
GMV-VQ2295WM/C-X					●			●●●
GMV-VQ2349WM/C-X						●		●●●
GMV-VQ2405WM/C-X							●	●●●
GMV-VQ2460WM/C-X								●●●●

Specifications of ODU Combination

GMV6 HR（380-415V 3N~50/60Hz）

HP	Model	Power supply	Capacity		Dimension (W×D×H)	Airflow volume	ESP	Connecting pipe			Min. circuit current	Max. fuse current	Net weight
			Cooling capacity	Heating capacity				Liquid	HP gas	LP gas			
			kW	kW	mm	m^3/h	Pa	mm	mm	mm	A	A	kg
24	GMV-VQ680WM/C-X	380-415V 3N~ 50/60 Hz	68.0	76.5	930×775×1690+ 1340×775×1690	10500+13500	110	Φ15.9	Φ25.4	Φ28.6	23.5+37.5	25+40	243+325
26	GMV-VQ730WM/C-X		73.0	81.5	930×775×1690+ 1340×775×1690	10500+15400	110	Φ19.05	Φ28.6	Φ31.8	23.5+39.3	25+40	243+325
28	GMV-VQ784WM/C-X		78.4	88.0	930×775×1690+ 1340×775×1690	10500+16000	110	Φ19.05	Φ28.6	Φ31.8	23.5+47	25+50	243+385
30	GMV-VQ840WM/C-X		84.0	94.5	930×775×1690+ 1340×775×1690	10500+16500	110	Φ19.05	Φ28.6	Φ31.8	23.5+48	25+50	243+385
32	GMV-VQ895WM/C-X		89.5	100.5	930×775×1690+ 1340×775×1690	10500+16500	110	Φ19.05	Φ28.6	Φ31.8	23.5+49	25+50	243+385
34	GMV-VQ950WM/C-X		95.0	106.5	930×775×1690+ 1340×775×1690	11100+16500	110	Φ19.05	Φ28.6	Φ31.8	24.1+49	25+50	256+385
36	GMV-VQ1015WM/C-X		101.5	114.0	(1340×775×1690)×2	13500+16500	110	Φ19.05	Φ31.8	Φ38.1	37.5+49	40+50	325+385
38	GMV-VQ1065WM/C-X		106.5	119.0	(1340×775×1690)×2	15400+16500	110	Φ19.05	Φ31.8	Φ38.1	39.3+49	40+50	325+385
40	GMV-VQ1119WM/C-X		111.9	125.5	(1340×775×1690)×2	16000+16500	110	Φ19.05	Φ31.8	Φ38.1	47+49	50+50	385×2
42	GMV-VQ1175WM/C-X		117.5	132.0	(1340×775×1690)×2	16500×2	110	Φ19.05	Φ31.8	Φ38.1	48+49	50+50	385×2
44	GMV-VQ1230WM/C-X		123.0	138.0	(1340×775×1690)×2	16500×2	110	Φ19.05	Φ31.8	Φ38.1	49+49	50+50	385×2
46	GMV-VQ1290WM/C-X		129.0	144.5	930×775×1690+ (1340×775×1690)×2	10500+15400 +16500	110	Φ19.05	Φ31.8	Φ38.1	23.5+39.3+48	25+40+50	243+325+385
48	GMV-VQ1345WM/C-X		134.5	150.5	930×775×1690+ (1340×775×1690)×2	10500+15400 +16500	110	Φ19.05	Φ31.8	Φ38.1	23.5+39.3+49	25+40+50	243+325+385
50	GMV-VQ1400WM/C-X		140.0	156.5	930×775×1690+ (1340×775×1690)×2	11100+15400+16500	110	Φ19.05	Φ38.1	Φ41.3	24.1+39.3+49	25+40+50	256+325+385
52	GMV-VQ1455WM/C-X		145.5	163.5	930×775×1690+ (1340×775×1690)×2	10500+16500×2	110	Φ19.05	Φ38.1	Φ41.3	23.5+48+49	25+50+50	243+385×2
54	GMV-VQ1510WM/C-X		151.0	169.5	930×775×1690+ (1340×775×1690)×2	10500+16500×2	110	Φ19.05	Φ38.1	Φ41.3	23.5+49+49	25+50+50	243+385×2
56	GMV-VQ1565WM/C-X		156.5	175.5	930×775×1690+ (1340×775×1690)×2	11100+16500×2	110	Φ19.05	Φ38.1	Φ41.3	24.1+49+49	25+50+50	256+385×2
58	GMV-VQ1630WM/C-X		163.0	183.0	(1340×775×1690)×3	13500+16500×2	110	Φ19.05	Φ38.1	Φ41.3	37.5+49+49	40+50+50	325+385×2
60	GMV-VQ1680WM/C-X		168.0	188.0	(1340×775×1690)×3	15400+16500×2	110	Φ19.05	Φ38.1	Φ41.3	39.3+49+49	40+50+50	325+385×2
62	GMV-VQ1734WM/C-X		173.4	194.5	(1340×775×1690)×3	16000+16500×2	110	Φ19.05	Φ38.1	Φ41.3	47+49+49	50+50+50	385×3
64	GMV-VQ1790WM/C-X		179.0	201.0	(1340×775×1690)×3	16500×3	110	Φ19.05	Φ38.1	Φ41.3	48+49+49	50+50+50	385×3
66	GMV-VQ1845WM/C-X		184.5	207.0	(1340×775×1690)×3	16500×3	110	Φ19.05	Φ38.1	Φ41.3	49+49+49	50+50+50	385×3
68	GMV-VQ1905WM/C-X		190.5	213.5	930×775×1690+ (1340×775×1690)×3	10500+15400 +16500×2	110	Φ22.2	Φ41.3	Φ44.5	23.5+39.3+48+49	25+40+50+50	243+325 +385×2
70	GMV-VQ1959WM/C-X		195.9	220.0	930×775×1690+ (1340×775×1690)×3	10500+16000 +16500×2	110	Φ22.2	Φ41.3	Φ44.5	23.5+47+48+49	25+50+50+50	243+385×3
72	GMV-VQ2015WM/C-X		201.5	226.5	930×775×1690+ (1340×775×1690)×3	10500+16500×3	110	Φ22.2	Φ41.3	Φ44.5	23.5+48+48+49	25+50+50+50	243+385×3
74	GMV-VQ2070WM/C-X		207.0	232.5	930×775×1690+ (1340×775×1690)×3	10500+16500×3	110	Φ22.2	Φ41.3	Φ44.5	23.5+48+49+49	25+50+50+50	243+385×3
76	GMV-VQ2125WM/C-X		212.5	238.5	930×775×1690+ (1340×775×1690)×3	10500+16500×3	110	Φ22.2	Φ41.3	Φ44.5	23.5+49+49+49	25+50+50+50	243+385×3
78	GMV-VQ2180WM/C-X		218.0	244.5	930×775×1690+ (1340×775×1690)×3	11100+16500×3	110	Φ22.2	Φ41.3	Φ44.5	24.1+49+49+49	25+50+50+50	256+385×3
80	GMV-VQ2245WM/C-X		224.5	252.0	(1340×775×1690)×4	13500+16500×3	110	Φ22.2	Φ41.3	Φ44.5	37.5+49+49+49	40+50+50+50	325+385×3
82	GMV-VQ2295WM/C-X		229.5	257.0	(1340×775×1690)×4	15400+16500×3	110	Φ22.2	Φ41.3	Φ44.5	39.3+49+49+49	40+50+50+50	325+385×3
84	GMV-VQ2349WM/C-X		234.9	263.5	(1340×775×1690)×4	16000+16500×3	110	Φ22.2	Φ41.3	Φ44.5	47+49+49+49	50+50+50+50	385×4
86	GMV-VQ2405WM/C-X		240.5	270.0	(1340×775×1690)×4	16500×4	110	Φ22.2	Φ41.3	Φ44.5	48+49+49+49	50+50+50+50	385×4
88	GMV-VQ2460WM/C-X		246.0	276.0	(1340×775×1690)×4	16500×4	110	Φ22.2	Φ41.3	Φ44.5	49+49+49+49	50+50+50+50	385×4

Note: The combination models of the outdoor units are not Eurovent certified.

VRF Indoor Units

Indoor Unit Lineup

Type			1.5	1.8	2.2	2.5	2.8	3.2	3.6	4.0	4.5	5.0	5.6	6.3	7.1	8.0	9.0	10.0	11.2	12.5	14.0	16.0	18.0	22.4	25.0	28.0	40.0	45.0	56.0
Duct Type Unit	High Static Pressure				●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		●	●	●	●
	General Static Pressure			●	●	●	●	●	●	●	●	●	●	●	●	●													
																●	●	●	●	●	●								
Cassette Unit	360°Air Discharge				●		●		●		●	●	●	●	●	●	●	●	●	●	●	●							
	360°Air Discharge Compact		●	●	●		●		●		●	●	●																
	2-way						●		●		●	●	●	●	●	●													
	1-way				●		●		●		●	●	●	●	●	●													
Fresh Air Processing Indoor Unit																				●	●			●	●	●		●	
Wall-mounted Type Unit			●	●	●		●		●		●	●	●	●	●	●	●	●											
Floor Ceiling Type Indoor Unit							●		●			●	●	●	●		●		●	●	●	●							
Floor Standing Type Indoor Unit																		●			●								
Console Indoor Unit					●		●		●		●	●																	
Concealed Floor Standing Type Indoor Unit					●		●		●		●		●	●	●														
AHU KIT									●							●					●					●			●

Quick Review of IDU Functions

Types of Indoor Unit		Indoor Tempe -rature Detection Point (Optional)	Indoor Temperature Detection and Revision	Static Pressure Adjustment	Fresh Air Device (Optional)	PM2.5 Filter (Optional)	Filter Washing Reminding	Intelligent Sensing Air Supply (Optional)	Auto Add -ressing	CAN+ Commu -nication	Singe/ Parallel Connection	Power-off Memory	Low-temp Anti-frost	SET BACK	Manage -ment of schedule	Intelligent Billing System
Duct Type Unit	High Static Pressure	●	●	●		●	●		●	●	●	●	●	●	●	●
	General Static Pressure	●	●	●			●		●	●	●	●	●	●	●	●
Cassette Unit	360°Air Discharge	●	●		●		●	●	●	●	●	●	●	●	●	●
	360°Air Discharge Compact	●	●				●		●	●	●	●	●	●	●	●
	2-way	●	●				●		●	●	●	●	●	●	●	●
	1-way	●	●				●		●	●	●	●	●	●	●	●
Fresh Air Processing Indoor Unit		●	●	●			●		●	●	●	●	●	●	●	●
Wall-mounted Type Unit		●	●				●		●	●	●	●	●	●	●	●
Floor Ceiling Type Indoor Unit		●	●				●		●	●	●	●	●	●	●	●
Floor Standing Type Indoor Unit		●	●				●		●	●	●	●	●	●	●	●
Console Indoor Unit		●	●				●		●	●	●	●	●	●	●	●
Concealed Floor Standing Type Indoor Unit		●	●	●			●		●	●	●	●	●	●	●	●

Duct Type Indoor Unit

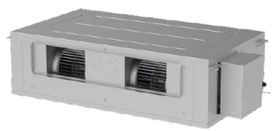
General Static Pressure Duct Type Indoor Unit

- Capacity range 1.8-14kW
- External static pressure can be up to 80Pa
- Standard fitting condensate pump lift; maximum lifting height can be up to 1.2m
- Multiple protections: anti-freezing protection, temperature sensor faulted protection and other multiple guarantees

High Static Pressure Duct Type Unit

- External static pressure can be up to 250Pa
- Standard fitting condensate water pump lift; lifting height can be up to 1.2m
- Optional PM2.5 electrostatic fiber filter
- 9-stage static pressure for adjustment, convenient for engineering application

Fresh Air Processing Indoor Unit



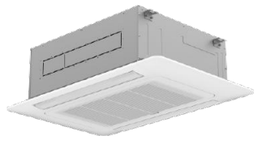
- DC inverter technology
- Direct evaporative cooling
- Air conditioner and fresh air function are linked

Cassette Type Indoor Unit

1-way Cassette Unit

- 178mm ultra-thin unit body
- Removable grille, with long life filter
- Standard fitting 1.2m condensate pump lift
- High ceiling function; highest corresponding height is 3.5m

2-way Cassette Indoor Unit



- 2-way air flow design, suitable to narrow rooms
- Standard fitting 1.2m condensate water pump lift
- Streamline panel design, elegant and decent

360° Air Discharge Cassette Indoor Unit

- 360°air supply
- Smart sensor technology for smart air flow adjustment*
- Standard fitting 1.2m pump lift

*This function is optional.

360° Air Discharge Compact Cassette Indoor Unit

- Independent Swing Control
- 360°air supply
- DC quiet condensate pump
- DC motor design for more energy-saving operation
- Multiple protection functions for safe and reliable operation
- Brand new designed air duct and fan blade for lower operating noise
- Compact design for more convenient installation

Wall-mounted Type Indoor Unit

- High-efficiency and energy-saving DC motor
- Long-life filter, removable and washable panel and filter for easy maintenance
- Wall-mounted installation, beautiful panel, uniform air flow and up&down 2-way air supply

Floor Ceiling Type Indoor Unit

- Streamlined appearance design, bright white color, pleasing to the eye
- Floor mounted or ceiling mounted, flexible installation
- Compact structural design, saving installation space
- Optional fresh air intake, to meet your high quality living standard

Console Indoor Unit

- Uniform temperature distribution, high level of comfort
- Easy installation without suspended ceiling; arrangement of refrigerant pipe is flexible
- Two-way air supply, upper and lower two air outlets respectively at the upper and lower 3D air supply

Floor Standing Type

- Up and down swing, long air supply distance
- long-life filter, removable and washable panel and filter for easy maintenance
- With I-feel function, it can detect the temperature at the user's position in real time to improve comfort (Remote controller YAP1F is required.)

Concealed Floor Standing Type

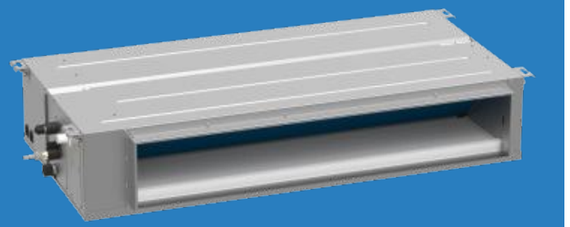
- Capacity range: 2.2~7.1kW
- Compact structure, ultra-thin unit body, only 200mm thickness in vertical installation
- Different stages of static pressure for adjustment; highest static pressure can be up to 60Pa
- Flexible installation, supporting feet design to suit different heights, flexible switch of lower return and side air return

AHU-KIT

- Independent design, convenient for installation
- Can connect to the third party controller
- Malfunction signal access, safe and reliable

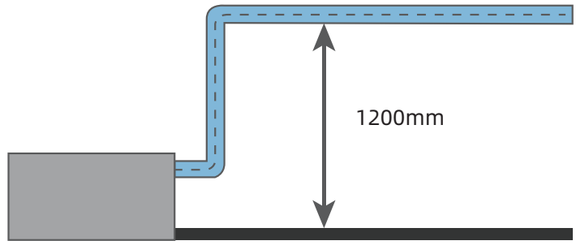
General Static Pressure Duct Type Indoor Unit

General static pressure duct type indoor unit adopts DC motor, multi-stage air volume and static pressure adjustable design, free choices of air supply and return modes, flexible and convenient installation, meeting requirements for different locations such as hotels, office buildings, shopping malls, apartments, villas, families, etc.



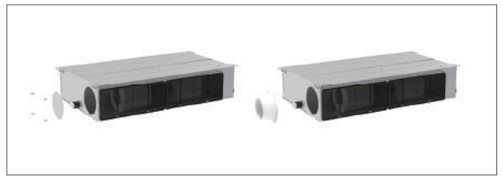
● Standard Fitting 1,200mm Condensate Water Lift Pump

Pump drainage height can be up to 1,200mm; vertical installation height of the unit can be flexibly adjusted, with high engineering adaptability.



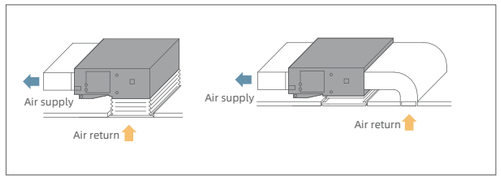
● Fresh Air Introduction Function

It can be connected to the fresh air duct to introduce fresh air from outside to ensure fresh indoor air.



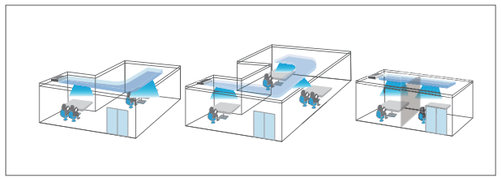
● Flexible Installation

According to the construction and use requirements, flexibly choose different return air ways and supply static pressure.



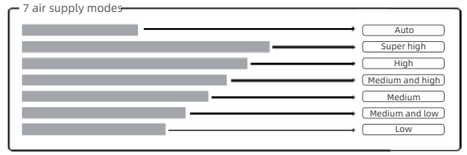
● 80Pa High Static Pressure Design, Multi-stage Static Pressure for Adjustment

The highest static pressure can be up to 80Pa, which is applicable to different installation locations to ensure cooling and heating effect. With wide static pressure range and 5 stages of adjustable external static pressure, the engineering design and application is more convenient and fast.



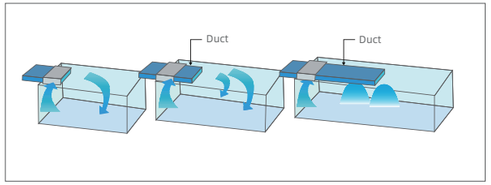
● 7-speed Air Volume Setting to Meet Diverse Needs

The DC motor can adjust up to 7 steps of air volume, accurately divide the air volume interval, reduce the noise value, and can set automatic quiet mode of indoor unit through wired controller, and enable the automatic quiet function according to the indoor temperature and personnel activities. Super high step and strong air volume, cooperating with outdoor compressor operation, it can enter strong cooling/heating mode; indoor unit motor can be adjusted to the highest step for rapid cool ing/heating to reach the required temperature.



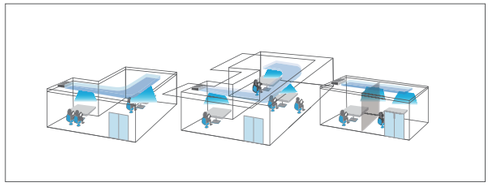
High Static Pressure Duct Type Unit

High static pressure duct type unit, with large air volume, wide static pressure adjustment range and maximum static pressure, can be up to 250Pa; long air supply distance can be widely used in places where it is necessary to connect air pipes to achieve long-distance air supply, such as hotels, office buildings, shopping malls, factories.



● High Static Pressure Design, Multi-stage Static Pressure to Adjust

There are 9-stage adjustable external static pressure. The highest static pressure can reach 200Pa. Engineering design and engineering application is more convenient and fast.



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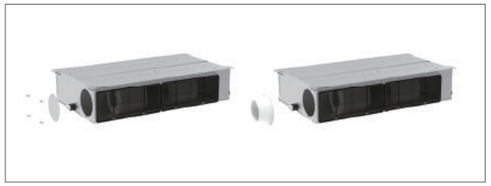
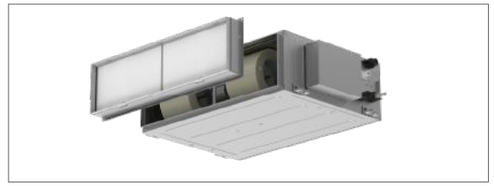


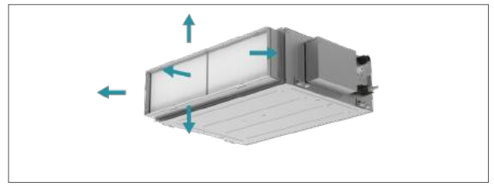
● Long-distance Air Supply

There are 9-stage adjustable external static pressure. The highest static pressure can reach 200Pa. Engineering design and engineering application is more convenient and fast.



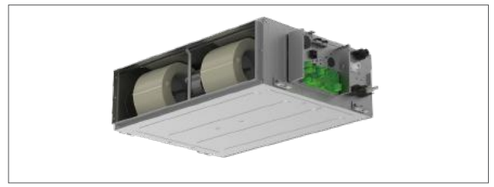
● Fresh Air Introduction Function

It can be connected to the fresh air duct to introduce fresh air from outside to ensure fresh indoor air.



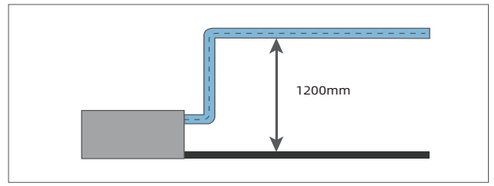
● High Efficiency Filtration

Optional high-efficiency filter device can effectively filtrate PM2.5, with small performance attenuation.



● Convenient Maintenance

External hanging electric box design for convenient maintenance.

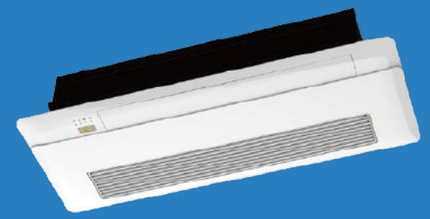


● Standard Fitting 1,200mm Condensate Water Lift Pump

The pump drainage height can be up to 1,200mm, and the vertical installation height of the unit can be flexibly adjusted, with high engineering adaptability.

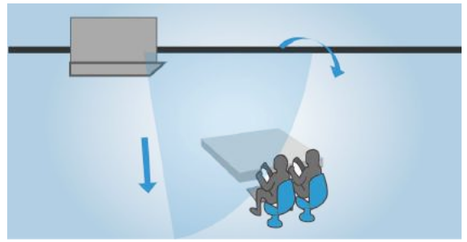
1-way Cassette Unit

The 1-way cassette unit, with ultra-thin and compact body, effectively saves installation space, meeting the air supply requirements of narrow rooms, walk-ways and other applications. It can be applied to households, hotels, small offices and other delicate and compact spaces.



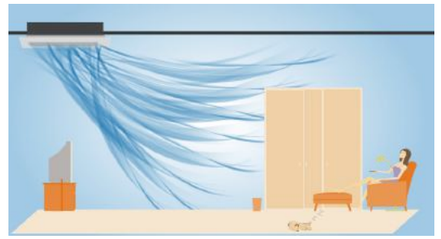
Ultra Wide Angle Air Supply

The left and right swing angles can be up to 75 degree, covering a wide range of air-conditioning spaces and providing a comfortable environment.

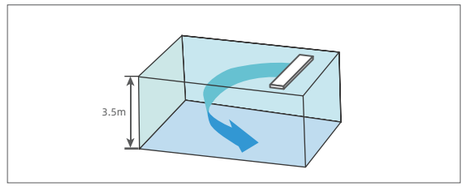


Uniform Temperature Distribution and High Level of Comfort

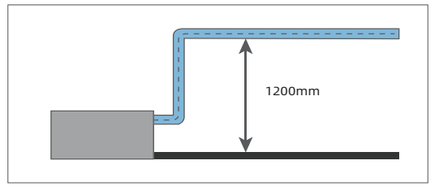
The temperature field is evenly and reasonably-distributed, and the heating airflow directly reaches the ground, warming the entire room and greatly improving user comfort.



High Ceiling Design, up to 3.5 Meters Space



Standard Fitting 1,200mm Condensate Water Lift Pump



Ultra-slim Design

Thickness of the main body is only 178mm, which meets the requirements of delicate and compact space.

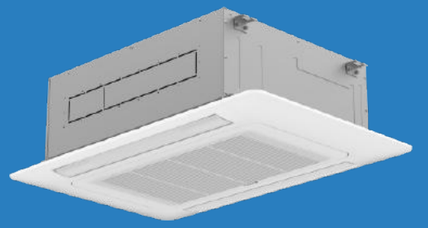
Evaporator Auto-drying Operation

After the cooling mode is stopped, the fan will delay the shutdown time and run for a while to dry the condensate water on the surface of the evaporator to keep the inside of the unit dry, so as not to breed bacteria and mold.

Anti-fouling Design

By adjusting the angle of the air deflector, it can avoid affecting the ceiling near the air outlet.

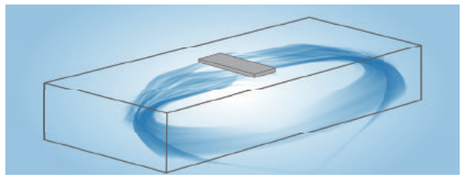
2-way Cassette Indoor Unit



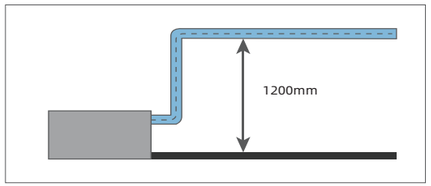
2-way cassette indoor unit features a high-efficiency DC brushless motor and a stylish design. It offers middle air return and double-sided air supply for strong, even air distribution. Ideal for hotels, office buildings, shopping malls, apartments, villas, and homes.

Two-way Air Supply

The double-sided air outlet lengthens the air supply distance to solve the problem of difficult air supply in narrow and long rooms.



Standard Fitting 1,200mm Condensate Water Lift Pump



New Streamlined Appearance Design

The new generation of two-way cassette unit adopts a brand new front panel design, making it visually pleasing and perfectly fit into indoor decoration.

Quiet Fan Blade Design, Low Noise Operation

By adopting DC motor and large diameter centrifugal fan blade design, low revolving speed can achieve large air volume, uniform air supply, and lower noise, providing quiet and comfortable space.

Independent Swing Control

There are two air deflectors that can be controlled independently to adjust the air supply direction. They can make different combinations of air swing angles to avoid direct airflow to people.
*It must be used with the wired controller (XE70-33/H).

Compact Body Design

The new generation of two-way cassette unit has a very thin body(280mm), which is 11.1% thinner than the last generation. Therefore, it requires less installation space and is more practical in engineering.

Automatic Louver Control

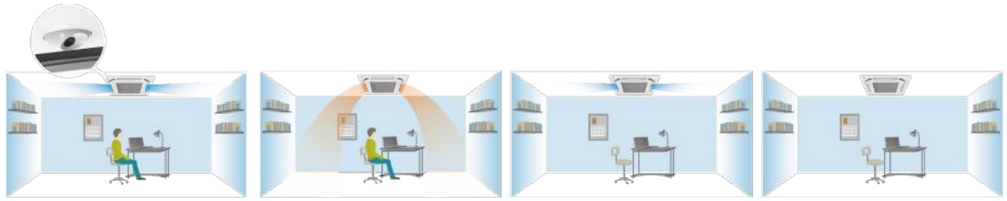
The front panel adopts an arc design for the end of air deflectors. With structural simulation analysis, the best air supply angle was simulated. In cooling mode, the unit can achieve horizontal air supply to avoid cold air draft to people. In heating mode, it can achieve vertical air supply to improve the degree of heating comfort.

360°Air Discharge Cassette Indoor Unit

360° air discharge cassette, with 360°air discharge, which is suitable for different places such as hotels, office buildings, shopping malls, apartments, villas, and families. The all-round discharge cassette type indoor unit's air louver can be independently controlled to realize a new air flow form. The air supply range is wide and temperature distribution is more uniform, bringing a com fortable environment experience. With optional human sensory function, the control is more intelli gent and user-friendly.

360° Overall Temperature Field Identification

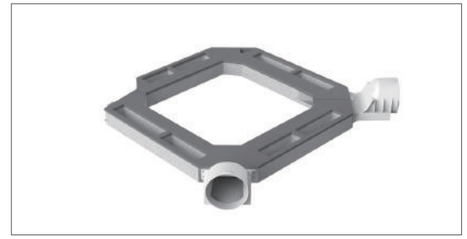
Intelligent sensory function control and high temperature field recognition accuracy can avoid cold wind blowing people, make warm wind follow people and prevent direct blowing to the human body; when it detects that no one is indoors, it automatically adjusts the set temperature; if there is no one indoors for long, the unit will be automatically shut off.



360° Surrounding Airflow

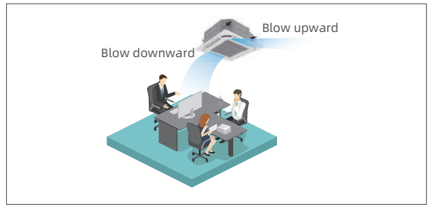
Wide air supply range, more uniform temperature distribution and more comfortable experience.

Optional fresh air fitting can effectively introduce 8 ~ 10% of outdoor fresh air and improve indoor comfort.



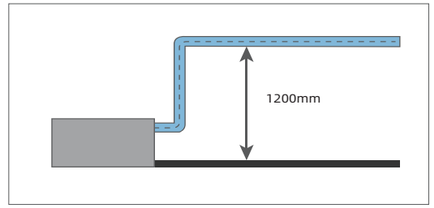
Independent Swing Control

The four air louvers can be controlled independently, and the air supply direction can be adjusted independently to achieve different angle combina tions to avoid direct air blowing.



DC Quiet Condensate Pump

The pump drainage lifting height can be up to 1,200mm, and vertical installation height of the unit can be flexibly adjusted, with high engineering adaptability.



Optional intelligent voice control module, far-field (5m) voice recognition technology, intelligent status broadcast, leading a new intelligent interaction experience.

* This accessory should be customized.

Optional lifting panel, and the inlet grille adopts two-way suspension lifting technolo- gy to realize the lifting function of the grille. User can clean the filter by himself thanks to convenient maintenance.

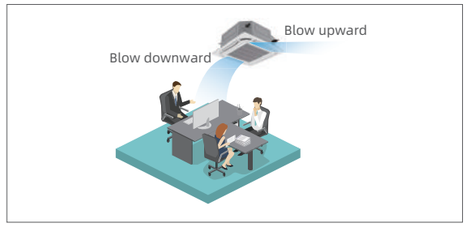
*Optional fitting, please consult engineering and technical personnel.

360 ° Air Discharge Compact Cassette Indoor Unit

360 ° air discharge compact cassette, 8 models in the whole series, capacity range: 1.5kW ~ 5.6kW. Newly designed 360 ° air outlet panel can achieve 360 ° surrounding airflow, for wider air supply range, more uniform air distribution and temperature field, and more comfortable user experience. It can be widely used in households, hotels, restaurants, offices, meeting rooms and other places.

360° Surrounding Airflow

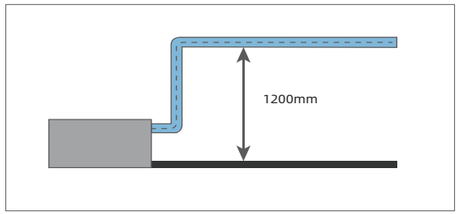
The newly designed 36 surrounding airflow has a wide air supply range, more uniform airflow organization and temperature distribution, avoiding partial hot and cold, and providing a more comfortable user experience.



Independent Swing Control

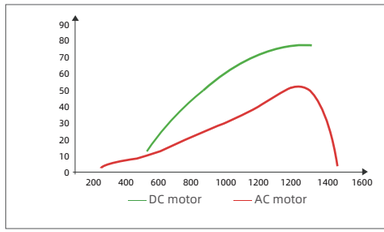
The four air louvers can be controlled independently, and direction of air supply can be regulated independently to achieve different angles of air supply and avoid direct wind blowing to people.

* This function needs to be used with wired controller XE70-33/H.



DC Quiet Condensate Pump

The high-lift DC quiet condensate pump is adopted, which has lower operating power and better sound quality. The maximum lifting height is 1,200mm, the installation design is more flexible, and it is convenient for the layout of engineering drain pipe.



DC Motor Design

The fan adopts high-efficiency DC motor to realize stepless speed regulation. Compared with ordinary AC motor, it can achieve effective energy conservation of about 30%.

Newly Designed Air Ducts and Blades for Lower Operating Noise

Internal air ducts and blades adopt new fluid simulation design, which allows lower operating n
Noise is as low as 25dB(A).

Compact Design

With compact structural design, unit body is smaller than the previous generation, and the installation area is smaller.

Multiple Protection Functions

The unit is designed with multiple protection functions to achieve safe and reliable long-term operation, including water full protection, anti-freezing protection, fan error protection, etc.

Wall-mounted Type Indoor Unit

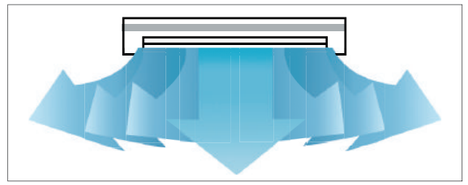
The whole series adopt high-efficiency DC motor, stylish design, simple and easy panel disas sembly, convenient cleaning design, uniform air flow distribution, and wide air supply range. It can blow the wind to every corner of the room. It is widely used in various places such as houses, hotels, apartments, offices and meeting rooms.

Easy Installation

It adopts wall-mounted installation, no need occupying floor space and no need to suspend the ceiling. Refrigerant pipe can be installed flexiblely.

Automatic Up and Down Swing Design

With up and down swing function, air louver can realize automatic control, air supply range is increased and air supply is uniform, creating a comfortable working and living environment.



Wide Air Supply

The wind can be naturally and evenly distributed to all corners of the room.

Quiet Design

Using high-efficiency cross-flow fan blades, noise of the whole unit is greatly reduced.

Uniform Temperature Distribution and High Comfort

The temperature field is evenly and reasonably distribut ed, the heating airflow can directly reach the ground, warming the entire room, greatly improving human comfort.

Washable Filter

With long-term filter, which can be disassembled and cleaned for easy maintenance.

Removable Panel

Panel of the indoor unit can be easily slid in or out, disassembly is simple and easy, which is easy to clean and the appearance of indoor unit can be kept clean and new.

Powerful and Fast

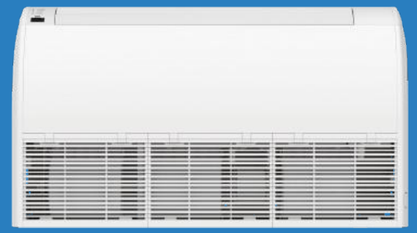
Using intelligent temperature control technology, with powerful and rapid cooling/heating function, can make the indoor temperature quickly reach the set temperature.

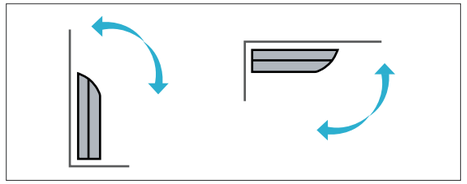
Multiple Protection Functions

Multiple Protection Functions Anti-freezing protection, fan motor built-in overload protection, temperature sensor error protection.

Floor Ceiling Type Indoor Unit

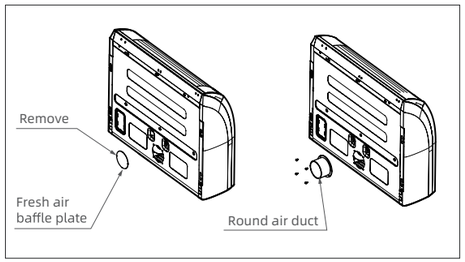
Floor ceiling type indoor unit has two installation methods: floor mounted and ceiling mounted which is decent without hoisting installation. It is suitable to multiple applications such as hotels, office buildings, shopping malls, apartments, villas, households, etc.





Flexible Installation

The unit Can be floor mounted or ceiling mounted; the flexible and convenient installation method Can give customers more installation choices. When floor mounted, the installa tion is more convenient.

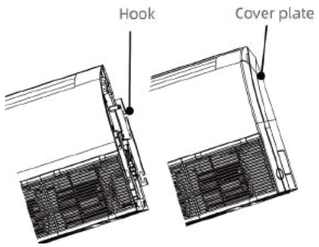


Fresh Air Intake

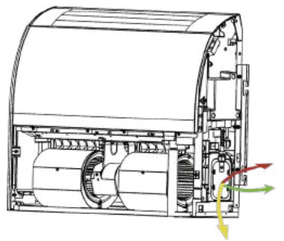
Fresh air duct can be connected to introduce fresh air into the room from the outside.

Easy Installation

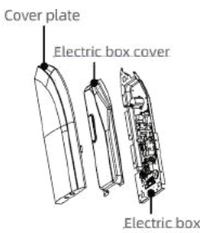
Adjust the angle of the air deflector to avoid affecting the ceiling near the air outlet.



1) Concealed hook design, beautiful appearance,



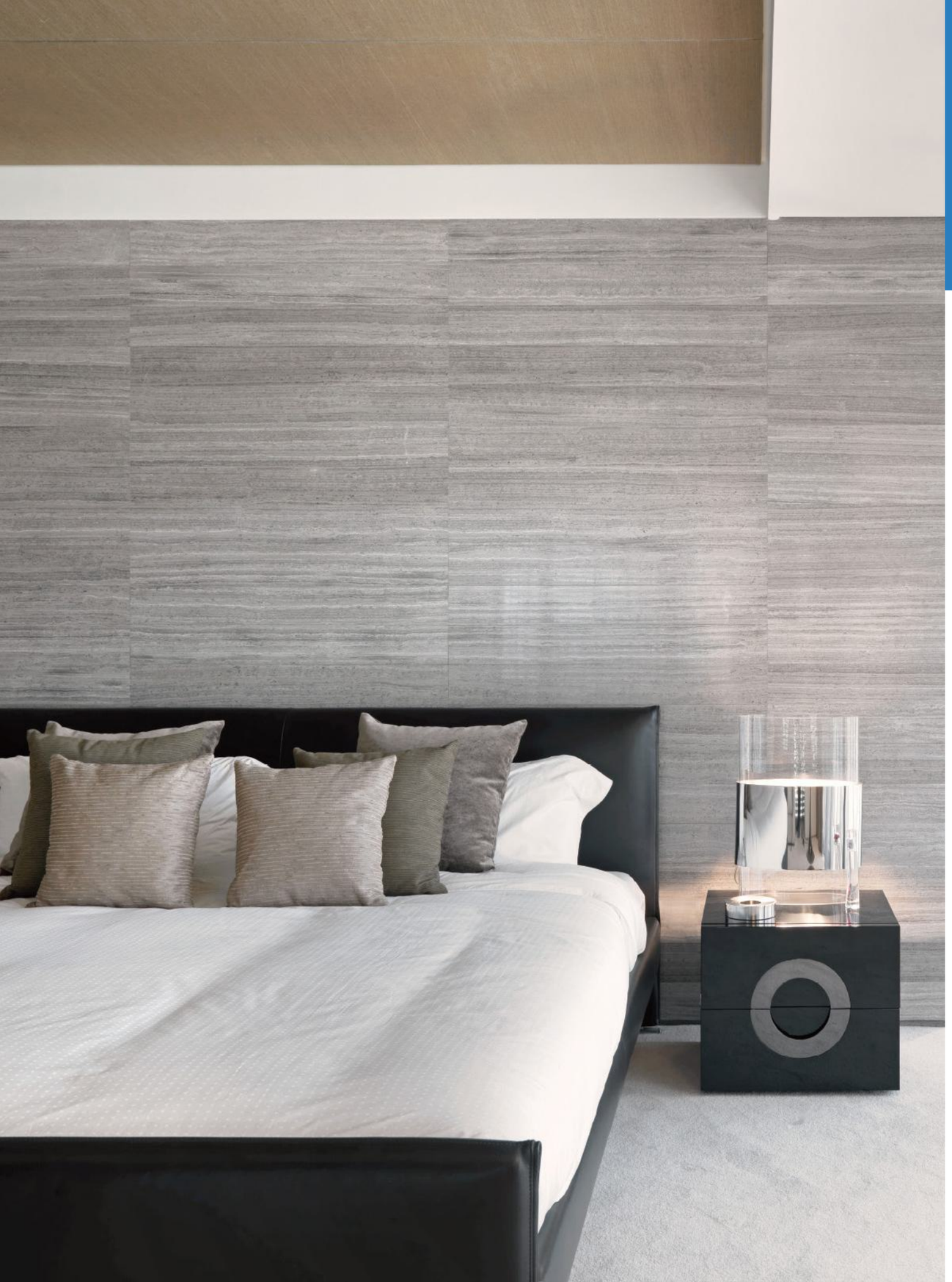
2) Multi-directional outlet



3) The concealed design of the side electrical box, Wire can be connected by disassembling the cover.

Quiet Design

The new low-noise fan blade cooperates with the DC motor and excellent soundproof air distribution structure to ensure that the air supply is even and smooth, creating a quiet and comfortable environment.



Console Indoor Unit

Console indoor unit features easy installation without suspended ceiling, which will not affect the integrated indoor decoration. It can be widely applied in villas, offices, meeting rooms, etc., providing users with a comfortable living and working environment.

Quiet Fan Blade Design, Low Noise Operation

By adopting DC motor and large diameter centrifugal fan blade design, low speed can achieve large air volume, uniform air distribution and low noise, providing quiet and comfortable space.

Uniform Temperature Distribution and High Level of Comfort

The temperature field is evenly and reasonably distributed, and the heating airflow directly reaches the ground, warm ing the entire room to greatly improve user comfort.

Removable Panel

Panel of the indoor unit can be easily slid in or out for easy disassembly and convenient cleaning; the appearance of indoor unit can be kept clean and new.

Multiple Protection Functions

Anti-freezing protection, fan motor built-in overload protection and temperature sensor error protection.

Strong and Fast

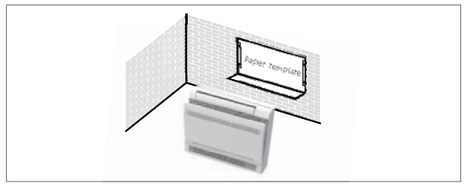
By adopting intelligent temperature control technology, with powerful and rapid cooling/heating function, it can make indoor temperature quickly reach the set temperature.

Washable Filter

The long-life filter can be disassembled and cleaned, for easier maintenance.

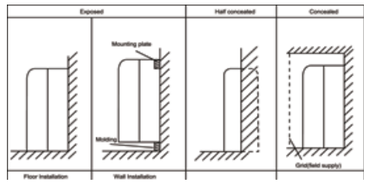
Two-way Air Supply

With the upper and lower air outlets, the unit can realize 3D air supply, which means the air will flow naturally and evenly to every corner of the room.



Easy Installation

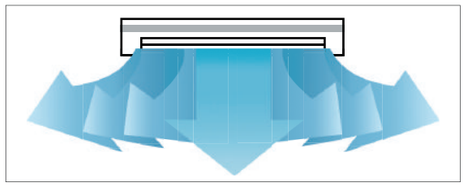
It can be installed on the floor without the need to cooperate with ceiling, and arrangement of refrigerant pipe is flexible and free.



Floor Standing Type

With large cooling capacity and a space-saving vertical structure, it is widely applied in houses, hotels, restaurants, chain stores, offices, and meeting rooms to provide users with a comfortable and pleasant living and working environment.

Up and Down Swing, Long Air Supply Distance



Washable Filter

The long-term filter can be disassembled and cleaned, for easier maintenance.

Quiet Design

By adopting high-efficiency centrifugal fan blades and quiet valves, noise of the complete unit is greatly reduced.
* Work with remote control YAP1F

Strong and Fast

By adopting intelligent temperature control technology, with powerful and rapid cooling/heating function, it can make indoor temperature quickly reach the set temperature.

i Feel Function

After the user turns on this function, the unit can detect the temperature of user's location in real time and adjust to improve user comfort.
* Work with remote control YAP1F

Anti-freezing protection

Anti-freezing protection, fan motor built-in overload protection and temperature sensor error protection.

Concealed Floor Standing Type

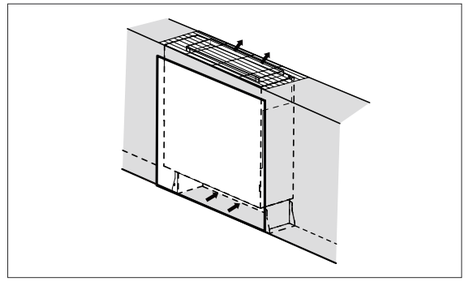
This unit adopts floor standing concealed installation method. With small occupation space, it will not impact the integrated indoor decoration. Cooling capacity ranges from 2.2kW to 7.1kW. It can be widely used in hotels, schools, villas, offices and meeting rooms, providing users with a comfortable living and working environment.

DC Motor Design, Low Noise Operation

The brushless DC motor realizes stepless speed adjustment, and can set the automatic quiet mode through wired controller to make the opera tion quieter.

Ultra-thin Body Design, Saving Installation Space

The structure is compact, thickness of the unit body is only 200mm, and the installation space and decoration space are greatly saved when adopting seated installation.

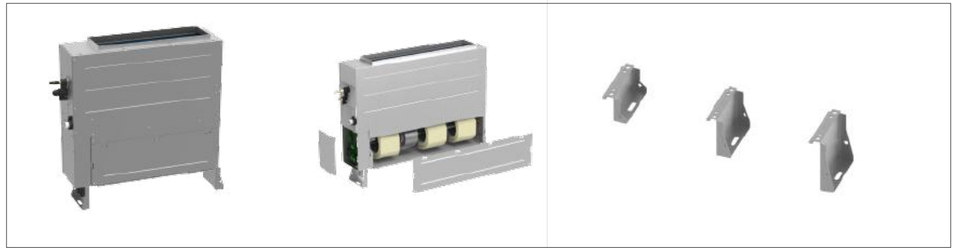


High Static Pressure Design, Multi-stage Static Pressure for Adjustment

On the basis of the limited vertical return air space structure, the 5-stage external static pressure can be adjusted, and the maximum static pressure can reach 60Pa. It meets the engineering design and application of air duct installation require ments, which is more convenient and fast.

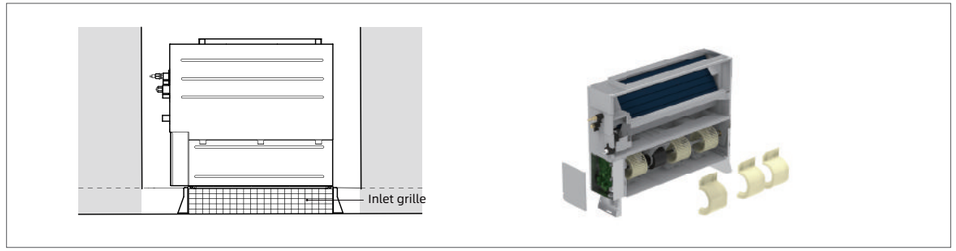
Flexible installation

The front detachable air return structure can realize the flexible switch between side air return and the bottom air return. Different height support foot designs to meet the users choice of different air volume and different decoration space.



Convenient Maintenance Design

Convenient front-side disassembly maintenance design; only maintenance port in the decorative wall is reserved, so that all the internal parts can be disassembled from the front side.



Safe and Reliable Operation

The unit adopts multiple internal wiring, water-return elbows and anti-overflow structure, which has perfectly solved the hidden danger of water penetration of electric box due to ultra-thin design.

AHU-KIT

[Constitution]: Electronic expansion valve components, control components.

[Function]: Connect the direct-expansion air handling unit (Condor's or third-party's direct-expansion air handling unit) to the Condor multi VRF system, so that the air handling unit has the functional advantages of multi VRF unit.

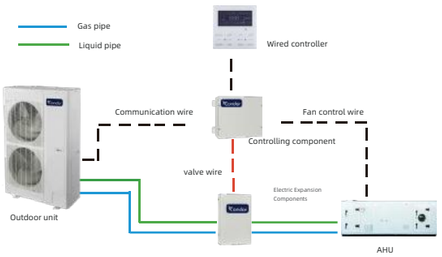
Connection

The AHU-KIT with the air handling unit can be used as a multi VRF indoor unit to connect to a multi VRF outdoor unit.

One to One

The AHU-KIT with the air handling unit can be connected with multi VRF outdoor units in one-to-one way.

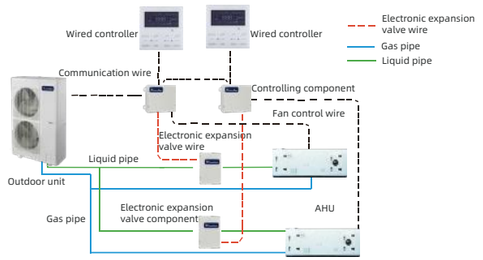
Total capacity of the AHU-KIT should be between 50% and 110% of the outdoor unit's capacity.



AHU-KIT one to one （single unit） connection （7.1kwscapacity≤84kW）

>> One to Many (Only DX AHU Unit)

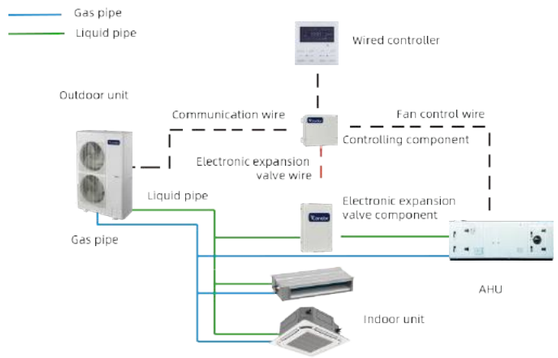
Multiple sets of AHU-KIT-air handling units can be connected to one multi VRF outdoor unit. Total capacity of the AHU-KIT should be between 50% and 110% of the outdoor unit capacity. (Take one for two as an example)



*2.8~28KW units can be connected in the same system;
22.4~84kw units can be connected in the same system.

>> One to Many （DX AHU Unit + GMV Indoor Unit）

The AHU-KIT and ordinary multi VRF indoor unit can be connected into the same multi VRF outdoor unit. Total capacity of the AHU-KIT and the ordinary multi VRF indoor unit is between 50% and 110% of the outdoor units capacity, and total capacity of the AHU-KIT cannot exceed 30% of the outdoor unit capacity.



AHU-KIT one to more (mixed) connection (2.8kW<capacity≤28kW)

Features

1) The two components are designed independently, and the installation is convenient. The con - trol component is installed indoors and electronic expansion valve can be installed indoors or outdoors, with flexible engineering design.

2) A variety of model combinations can expand the capacity range to meet the requirements in most occasions. With fault signal to ensure safe and reliable o peration.

3) The outdoor unit is used as cooling and heating sources, no additional cooling and heating sources are required.

4) Access to variable refrigerant control system, using DC inver ter control technology.

5) Can connect to the third party's controller to set on/off, modes, temperature and related parameters of the units.

Fresh Air Processing Indoor Unit

Increase Indoor Air Quality without bring into extra heat load. Structure and set points that optimized for fresh air processing.

- **Air volume: 1000-4000m3/h**

  The brushless DC motor realizes stepless speed adjustment, and can set the automatic quiet mode through wired controller to make the opera tion quieter.

- **Air conditioner and fresh air linkage**

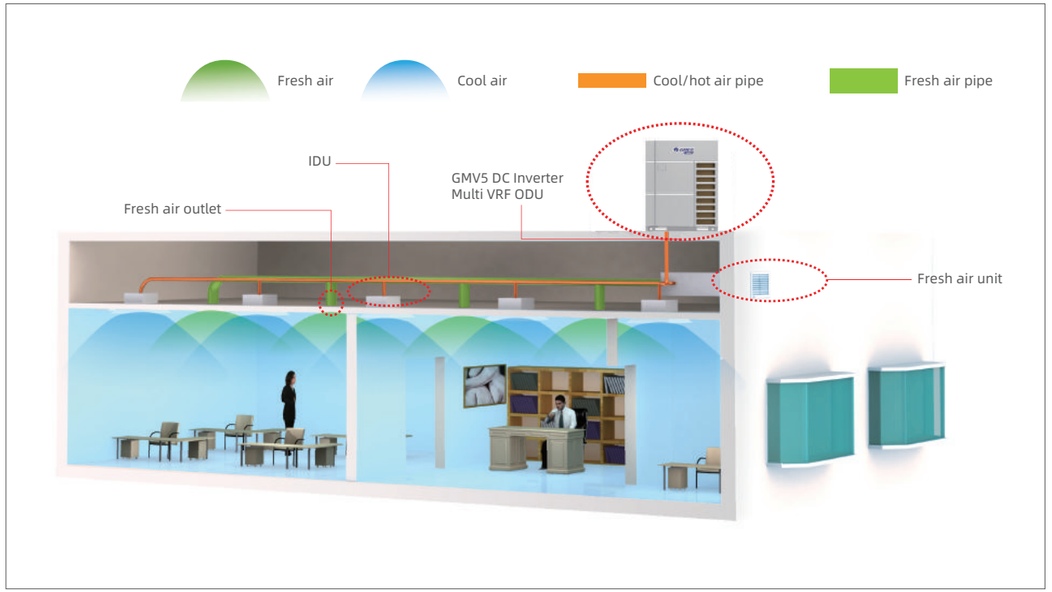
  achieve simultaneous air conditioning and fresh air treatment in the same system. When the VRF unit is turned on, the fresh air unit is linked at the same time, worry-free and energy-saving.

- **Dc inverter technology**

  adjust the capacity output according to actual needs to ensure stable humidity and reduce power consumption.

- **Direct evaporative cooling**

  treat outdoor air to the state which is required indoors to achieve the dual effect of air conditioning and fresh air.



Specifications of Indoor Units

High Static Pressure Duct Type Indoor Unit

Model			GMV-ND22PHS/B-T	GMV-ND25PHS/B-T	GMV-ND28PHS/B-T	GMV-ND32PHS/B-T	GMV-ND36PHS/B-T
Capacity	Cooling	kW	2.2	2.5	2.8	3.2	3.6
	Heating	kW	2.5	2.8	3.2	3.6	4.0
Power supply		V/Ph/Hz	220-240V~ 50Hz & 208-230V~ 60Hz				
Power consumption		W	55	55	55	65	65
Airflow volume(H/M/L)		m^3/h	550/480/400	550/480/400	550/480/400	600/500/420	600/500/420
Rated Current	Cooling	A	0.5	0.5	0.5	0.5	0.5
	Heating	A	0.5	0.5	0.5	0.5	0.5
ESP		Pa	60/0 ~ 150	60/0 ~ 150	60/0 ~ 150	60/0 ~ 150	60/0 ~ 150
Sound pressure level(H/M/L)		dB(A)	33/30/28	33/30/28	33/30/28	33/31/29	33/31/29
Connecting pipe	Liquid	mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35
	Gas	mm	Φ9.52	Φ9.52	Φ9.52	Φ12.7	Φ12.7
Drain pipe	External dia.	mm	Φ25	Φ25	Φ25	Φ25	Φ25
	Thickness	mm	2.5	2.5	2.5	2.5	2.5
Dimension (W×D×H)	Outline	mm	700×700×300	700×700×300	700×700×300	700×700×300	700×700×300
	Package	mm	897×808×360	897×808×360	897×808×360	897×808×360	897×808×360
Net weight/Gross weight		kg	32/38	32/38	32/38	32/38	32/38
Loading quantity	40'GP	unit	168	168	168	168	168
	40'HQ	unit	196	196	196	196	196

Model			GMV-ND40PHS/B-T	GMV-ND45PHS/B-T	GMV-ND50PHS/B-T	GMV-ND56PHS/B-T	GMV-ND63PHS/B-T
Capacity	Cooling	kW	4.0	4.5	5.0	5.6	6.3
	Heating	kW	4.5	5.0	5.6	6.3	7.1
Power supply		V/Ph/Hz	220-240V~ 50Hz & 208-230V~ 60Hz				
Power consumption		W	85	85	85	90	90
Airflow volume(H/M/L)		m^3/h	850/700/600	850/700/600	850/700/600	1000/800/700	1000/800/700
Rated Current	Cooling	A	0.5	0.5	0.5	0.8	0.8
	Heating	A	0.5	0.5	0.5	0.8	0.8
ESP		Pa	60/0 ~ 150	60/0 ~ 150	60/0 ~ 150	90/0 ~ 200	90/0 ~ 200
Sound pressure level(H/M/L)		dB(A)	36/34/32	36/34/32	36/34/32	37/35/33	37/35/33
Connecting pipe	Liquid	mm	Φ6.35	Φ6.35	Φ6.35	Φ9.52	Φ9.52
	Gas	mm	Φ12.7	Φ12.7	Φ12.7	Φ15.9	Φ15.9
Drain pipe	External dia.	mm	Φ25	Φ25	Φ25	Φ25	Φ25
	Thickness	mm	2.5	2.5	2.5	2.5	2.5
Dimension (W×D×H)	Outline	mm	700×700×300	700×700×300	700×700×300	1000×700×300	1000×700×300
	Package	mm	897×808×360	897×808×360	897×808×360	1205×813×360	1205×813×360
Net weight/Gross weight		kg	34/40	34/40	34/40	43/49	43/49
Loading quantity	40'GP	unit	168	168	168	138	138
	40'HQ	unit	196	196	196	161	161

Model			GMV-ND71PHS/B-T	GMV-ND80PHS/B-T	GMV-ND90PHS/B-T	GMV-ND100PHS/B-T	GMV-ND112PHS/B-T
Capacity	Cooling	kW	7.1	8.0	9.0	10.0	11.2
	Heating	kW	8.0	9.0	10.0	11.2	12.5
Power supply		V/Ph/Hz	220-240V~ 50Hz & 208-230V~ 60Hz				
Power consumption		W	100	100	140	140	160
Airflow volume(H/M/L)		m^3/h	1250/1050/950	1250/1050/950	1800/1450/1250	1800/1450/1250	2000/1600/1400
Rated Current	Cooling	A	0.8	0.8	1.1	1.1	1.1
	Heating	A	0.8	0.8	1.1	1.1	1.1
ESP		Pa	90/0 ~ 200	90/0 ~ 200	90/0 ~ 200	90/0 ~ 200	90/0 ~ 200
Sound pressure level(H/M/L)		dB(A)	38/36/34	38/36/34	40/37/35	40/37/35	40/38/36
Connecting pipe	Liquid	mm	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52
	Gas	mm	Φ15.9	Φ15.9	Φ15.9	Φ15.9	Φ15.9
Drain pipe	External dia.	mm	Φ25	Φ25	Φ25	Φ25	Φ25
	Thickness	mm	2.5	2.5	2.5	2.5	2.5
Dimension (W×D×H)	Outline	mm	1000×700×300	1000×700×300	1400×700×300	1400×700×300	1400×700×300
	Package	mm	1205×813×360	1205×813×360	1601×813×365	1601×813×365	1601×813×365
Net weight/Gross weight		kg	43/49	43/49	57/64	57/64	57/64
Loading quantity	40'GP	unit	138	138	84	84	84
	40'HQ	unit	161	161	98	98	98

Model			GMV-ND125PHS/B-T	GMV-ND140PHS/B-T	GMV-ND160PHS/B-T	GMV-ND180PHS/B-T	GMV-ND224PH/A-T*
Capacity	Cooling	kW	12.5	14.0	16.0	18.0	22.4
	Heating	kW	14.0	16.0	18.0	20.0	25.0
Power supply		V/Ph/Hz	220-240V~ 50Hz & 208-230V~ 60Hz				
Power consumption		W	160	220	230	350	800
Airflow volume(H/M/L)		m^3/h	2000/1600/1400	2350/1900/1650	2500/2000/1750	3000/2600/2000	4000/3600/3200
Rated Current	Cooling	A	1.1	1.5	1.5	2.0	3.7
	Heating	A	1.1	1.5	1.5	2.0	3.7
ESP		Pa	90/0 ~ 200	90/0 ~ 200	90/0 ~ 200	90/0 ~ 170	100/50 ~ 200
Sound pressure level(H/M/L)		dB(A)	40/38/36	42/39/37	44/41/38	49/47/44	54/52/49
Connecting pipe	Liquid	mm	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52
	Gas	mm	Φ15.9	Φ15.9	Φ19.05	Φ19.05	Φ19.05
Drain pipe	External dia.	mm	Φ25	Φ25	Φ25	Φ25	Φ25
	Thickness	mm	2.5	2.5	2.5	2.5	2.0
Dimension (W×D×H)	Outline	mm	1400×700×300	1400×700×300	1400×700×300	1400×700×300	1483×791×385
	Package	mm	1601×813×365	1678×808×365	1678×808×365	1678×808×365	1578×883×472
Net weight/Gross weight		kg	57/64	58/67	58/67	58/67	82/104
Loading quantity	40'GP	unit	84	84	84	84	60
	40'HQ	unit	98	98	98	98	75

Model			GMV-ND280PH/A-T *	GMV-ND400PH/AR-X *	GMV-ND450PH/AR-X *	GMV-N560PH/AR-M*
Capacity	Cooling	kW	28.0	40.0	45.0	56.0
	Heating	kW	31.0	45.0	50.0	63.0
Power supply		V/Ph/Hz	220-240V~ 50Hz & 208-230V~ 60Hz	380-415V 3N~ 50/60Hz	380-415V 3N~ 50/60Hz	380V 3N~ 50Hz
Power consumption		W	900	2500	2550	2700
Airflow volume(H/M/L)		m^3/h	4400/4000/3600	8000/6100/5050	8200/6600/5550	10000
Rated Current	Cooling	A	4.1	2.7	4.1	5.5
	Heating	A	4.1	2.7	4.1	5.5
ESP		Pa	100/50 ~ 200	200/50~250	200/50~250	200
Sound pressure level(H/M/L)		dB(A)	55/52/50	61/59/56	62/60/57	63
Connecting pipe	Liquid	mm	Φ9.52	Φ12.7	Φ12.7	Φ15.9
	Gas	mm	Φ22.2	Φ25.4	Φ28.6	Φ28.6
Drain pipe	External dia.	mm	Φ25	Φ25	Φ25	Φ25
	Thickness	mm	2.0	1.2	1.2	1.2
Dimension (W×D×H)	Outline	mm	1686×870×450	1680×900×650	1900×1100×700	1900×1100×850
	Package	mm	1788×988×580	1923×1153×850	2123×1463×905	2123×1463×1060
Net weight/Gross weight		kg	105/140	170/220	236/317	282/364
Loading quantity	40'GP	unit	52	24	16	16
	40'HQ	unit	52	36	16	16

* This model is without water pump.

High Static Pressure Duct Type Indoor Unit

Model			GMV-ND22PHS/D-T	GMV-ND25PHS/D-T	GMV-ND28PHS/D-T	GMV-ND32PHS/D-T	GMV-ND36PHS/D-T
Capacity	Cooling	kW	2.2	2.5	2.8	3.2	3.6
	Heating	kW	2.5	2.8	3.2	3.6	4.0
Power supply		V/Ph/Hz	220-240V~ 50Hz & 208-230V~ 60Hz				
Power consumption		W	50	50	50	50	50
Airflow volume(H/M/L)		m^3/h	550/480/400	550/480/400	550/480/400	600/500/420	600/500/420
Rated current	Cooling	A	0.4	0.4	0.4	0.4	0.4
	Heating	A	0.4	0.4	0.4	0.4	0.4
ESP		Pa	50/0~80	50/0~80	50/0~80	50/0~80	50/0~80
Sound pressure level(H/M/L)		dB(A)	35/31/29	35/31/29	35/31/29	36/33/30	36/33/30
Connecting pipe	Liquid	mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35
	Gas	mm	Φ9.52	Φ9.52	Φ9.52	Φ12.7	Φ12.7
Drain pipe	External dia.	mm	Φ25	Φ25	Φ25	Φ25	Φ25
	Thickness	mm	2.5	2.5	2.5	2.5	2.5
Dimension (W×D×H)	Outline	mm	700×700×300	700×700×300	700×700×300	700×700×300	700×700×300
	Package	mm	897×808×360	897×808×360	897×808×360	897×808×360	897×808×360
Net weight / Gross weight		kg	30.5/36	30.5/36	30.5/36	30.5/36	30.5/36
Loading quantity	40'GP	unit	168	168	168	168	168
	40'HQ	unit	196	196	196	196	196

Model			GMV-ND40PHS/D-T	GMV-ND45PHS/D-T	GMV-ND50PHS/D-T	GMV-ND56PHS/D-T	GMV-ND63PHS/D-T
Capacity	Cooling	kW	4.0	4.5	5.0	5.6	6.3
	Heating	kW	4.5	5.0	5.6	6.3	7.1
Power supply		V/Ph/Hz	220-240V~ 50Hz & 208-230V~ 60Hz				
Power consumption		W	100	100	100	105	105
Airflow volume(H/M/L)		m^3/h	850/700/600	850/700/600	850/700/600	1000/800/700	1000/800/700
Rated current	Cooling	A	0.8	0.8	0.8	0.8	0.8
	Heating	A	0.8	0.8	0.8	0.8	0.8
ESP		Pa	50/0~80	50/0~80	50/0~80	90/0~200	90/0~200
Sound pressure level(H/M/L)		dB(A)	40/36/32	40/36/32	40/36/32	40/36/32	40/36/32
Connecting pipe	Liquid	mm	Φ6.35	Φ6.35	Φ6.35	Φ9.52	Φ9.52
	Gas	mm	Φ12.7	Φ12.7	Φ12.7	Φ15.9	Φ15.9
Drain pipe	External dia.	mm	Φ25	Φ25	Φ25	Φ25	Φ25
	Thickness	mm	2.5	2.5	2.5	2.5	2.5
Dimension (W×D×H)	Outline	mm	700×700×300	700×700×300	700×700×300	1000×700×300	1000×700×300
	Package	mm	897×808×360	897×808×360	897×808×360	1205×813×360	1205×813×360
Net weight / Gross weight		kg	31.5/37	31.5/37	31.5/37	40.5/46.5	40.5/46.5
Loading quantity	40'GP	unit	168	168	168	138	138
	40'HQ	unit	196	196	196	161	161

*Note: This GMV-ND**PHS/D-T series model is not suitable for EU market.

Model			GMV-ND71PHS/D-T	GMV-ND80PHS/D-T	GMV-ND90PHS/D-T	GMV-ND100PHS/D-T	GMV-ND112PHS/D-T
Capacity	Cooling	kW	7.1	8.0	9.0	10.0	11.2
	Heating	kW	8.0	9.0	10.0	11.2	12.5
Power supply		V/Ph/Hz	220-240V~ 50Hz & 208-230V~ 60Hz				
Power consumption		W	110	110	170	170	170
Airflow volume(H/M/L)		m^3/h	1250/1050/950	1250/1050/950	1800/1450/1250	1800/1450/1250	2000/1600/1400
Rated current	Cooling	A	0.9	0.9	1.4	1.4	1.4
	Heating	A	0.9	0.9	1.4	1.4	1.4
ESP		Pa	90/0~200	90/0~200	90/0~200	90/0~200	90/0~200
Sound pressure level(H/M/L)		dB(A)	40/36/32	40/36/32	42/38/34	42/38/34	43/39/36
Connecting pipe	Liquid	mm	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52
	Gas	mm	Φ15.9	Φ15.9	Φ15.9	Φ15.9	Φ15.9
Drain pipe	External dia.	mm	Φ25	Φ25	Φ25	Φ25	Φ25
	Thickness	mm	2.5	2.5	2.5	2.5	2.5
Dimension (W×D×H)	Outline	mm	1000×700×300	1000×700×300	1400×700×300	1400×700×300	1400×700×300
	Package	mm	1205×813×360	1205×813×360	1601×813×365	1601×813×365	1601×813×365
Net weight / Gross weight		kg	41/47	41/47	54/61	54/61	54/61
Loading quantity	40'GP	unit	138	138	84	84	84
	40'HQ	unit	161	161	98	98	98

Model			GMV-ND125PHS/D-T	GMV-ND140PHS/D-T	GMV-ND160PHS/D-T	GMV-ND180PHS/D-T
Capacity	Cooling	kW	12.5	14.0	16.0	18.0
	Heating	kW	14.0	16.0	18.0	20.0
Power supply		V/Ph/Hz	220-240V~ 50Hz & 208-230V~ 60Hz			
Power consumption		W	170	240	240	350
Airflow volume(H/M/L)		m^3/h	2000/1600/1400	2350/1900/1650	2500/2000/1750	3000/2600/2000
Rated current	Cooling	A	1.4	1.8	1.8	2.0
	Heating	A	1.4	1.8	1.8	2.0
ESP		Pa	90/0~200	90/0~200	90/0~200	90/0-170
Sound pressure level(H/M/L)		dB(A)	44/40/37	44/41/38	45/43/40	49/47/44
Connecting pipe	Liquid	mm	Φ9.52	Φ9.52	Φ9.52	Φ9.52
	Gas	mm	Φ15.9	Φ15.9	Φ19.05	Φ19.05
Drain pipe	External dia.	mm	Φ25	Φ25	Φ25	Φ25
	Thickness	mm	2.5	2.5	2.5	2.5
Dimension (W×D×H)	Outline	mm	1400×700×300	1400×700×300	1400×700×300	1400×700×300
	Package	mm	1601×813×365	1601×813×365	1601×813×365	1678×808×365
Net weight / Gross weight		kg	54/61	54.5/61.5	54.5/61.5	58/67
Loading quantity	40'GP	unit	84	84	84	84
	40'HQ	unit	98	98	98	98

*Note: This GMV-ND**PHS/D-T series model is not suitable for EU market.

Condor Commercial Air Conditioners --- VRF Indoor Units

General Static Pressure Duct Type Indoor Unit

Model			GMV-ND18PLS/C1-T	GMV-ND22PLS/C1-T	GMV-ND25PLS/C1-T	GMV-ND28PLS/C1-T	GMV-ND32PLS/C1-T
Capacity	Cooling	kW	1.80	2.20	2.50	2.80	3.20
	Heating	kW	2.20	2.50	2.80	3.20	3.60
Power supply		V/Ph/Hz	220-240V~ 50Hz & 208-230V~ 60Hz				
Power consumption		W	28	28	28	28	37
Airflow volume(H/M/L)		m^3/h	450/350/200	450/350/200	450/350/200	450/350/200	550/400/300
Rated Current	Cooling	A	0.2	0.2	0.2	0.2	0.3
	Heating	A	0.2	0.2	0.2	0.2	0.3
ESP		Pa	15/0 ～ 30	15/0 ～ 30	15/0 ～ 30	15/0 ～ 30	15/0 ～ 30
Sound pressure level (H/M/L)		dB(A)	30/25/22	30/25/22	30/25/22	30/25/22	31/27/25
Connecting pipe	Liquid	mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35
	Gas	mm	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ12.7
Drain pipe	External dia.	mm	25	25	25	25	25
	Thickness	mm	2.5	2.5	2.5	2.5	2.5
Dimension (W×D×H)	Outline	mm	710×462×200	710×462×200	710×462×200	710×462×200	710×462×200
	Package	mm	1008×568×275	1008×568×275	1008×568×275	1008×568×275	1008×568×275
Net weight/Gross weight		kg	18.5/23.5	18.5/23.5	18.5/23.5	18.5/23.5	19/24
Loading quantity	40'GP	unit	386	386	386	386	386
	40'HQ	unit	430	430	430	430	430

Model			GMV-ND36PLS/C1-T	GMV-ND40PLS/C1-T	GMV-ND45PLS/C1-T	GMV-ND50PLS/C1-T	GMV-ND56PLS/C1-T
Capacity	Cooling	kW	3.60	4.00	4.50	5.00	5.60
	Heating	kW	4.00	4.50	5.00	5.60	6.30
Power supply		V/Ph/Hz	220-240V~ 50Hz & 208-230V~ 60Hz				
Power consumption		W	37	40	40	40	55
Airflow volume(H/M/L)		m^3/h	550/400/300	750/550/400	750/550/400	750/550/400	850/700/550
Rated Current	Cooling	A	0.3	0.3	0.3	0.3	0.4
	Heating	A	0.3	0.3	0.3	0.3	0.4
ESP		Pa	15/0 ～ 30	15/0 ～ 30	15/0 ～ 30	15/0~30	15/0~30
Sound pressure level (H/M/L)		dB(A)	31/27/25	33/29/27	33/29/27	33/29/27	35/31/29
Connecting pipe	Liquid	mm	Φ6.35	Φ12.7	Φ12.7	Φ12.7	Φ15.9
	Gas	mm	Φ12.7	Φ6.35	Φ6.35	Φ6.35	Φ9.52
Drain pipe	External dia.	mm	25	25	25	25	25
	Thickness	mm	2.5	2.5	2.5	2.5	2.5
Dimension (W×D×H)	Outline	mm	710×462×200	1010×462×200	1010×462×200	1010×462×200	1010×462×200
	Package	mm	1008×568×275	1308×568×275	1308×568×275	1308×568×275	1308×568×275
Net weight/Gross weight		kg	19/24	24/30	24/30	24/30	25/31
Loading quantity	40'GP	unit	386	288	288	288	288
	40'HQ	unit	430	340	340	340	340

Model			GMV-ND63PLS/C1-T	GMV-ND71PLS/C1-T	GMV-ND80PLS/C1-T	GMV-ND80PLS/C-T	GMV-ND90PLS/C-T
Capacity	Cooling	kW	6.30	7.10	8.00	8.0	9.0
	Heating	kW	7.10	8.00	9.00	9.0	10.0
Power supply		V/Ph/Hz	220-240V~ 50Hz & 208-230V~ 60Hz				
Power consumption		W	55	55	55	110	130
Airflow volume(H/M/L)		m^3/h	850/700/550	1100/850/650	1200/950/700	1250/1100/900	1500/1250/900
Rated Current	Cooling	A	0.4	0.5	0.5	0.53	0.63
	Heating	A	0.4	0.5	0.5	0.53	0.63
ESP		Pa	15/0~30	15/0~30	15/0~30	50/0 ～ 80	50/0 ～ 80
Sound pressure level (H/M/L)		dB(A)	35/31/29	37/32/30	40/35/31	37/34/31	40/36/32
Connecting pipe	Liquid	mm	Φ15.9	Φ15.9	Φ15.9	Φ9.52	Φ9.52
	Gas	mm	Φ9.52	Φ9.52	Φ9.52	Φ15.9	Φ15.9
Drain pipe	External dia.	mm	25	25	25	Φ25	Φ25
	Thickness	mm	2.5	2.5	2.5	2.5	2.5
Dimension (W×D×H)	Outline	mm	1010×462×200	1310×462×200	1310×462×200	1200×655×260	1340×655×260
	Package	mm	1308×568×275	1608×568×275	1608×568×275	1448×858×315	1588×858×315
Net weight/Gross weight		kg	25/31	31/37.5	31/37.5	39.0/48.0	45.5/54.5
Loading quantity	40'GP	unit	288	229	229	154	105
	40'HQ	unit	340	257	257	176	120

Model			GMV-ND100PLS/C-T	GMV-ND112PLS/C-T	GMV-ND125PLS/C-T	GMV-ND140PLS/C-T
Capacity	Cooling	kW	10.0	11.2	12.5	14.0
	Heating	kW	11.2	12.5	14.0	16.0
Power supply		V/Ph/Hz	220-240V~ 50Hz & 208-230V~ 60Hz			
Power consumption		W	130	130	170	170
Airflow volume(H/M/L)		m^3/h	1500/1350/1000	1700/1500/1100	2000/1700/1400	2000/1700/1400
Rated Current	Cooling	A	0.63	0.63	0.8	0.8
	Heating	A	0.63	0.63	0.8	0.8
ESP		Pa	50/0 ～ 80	50/0 ～ 80	50/0 ～ 80	50/0 ～ 80
Sound pressure level (H/M/L)		dB(A)	40/36/32	40/36/32	42/40/37	42/40/37
Connecting pipe	Liquid	mm	Φ9.52	Φ9.52	Φ9.52	Φ9.52
	Gas	mm	Φ15.9	Φ15.9	Φ15.9	Φ15.9
Drain pipe	External dia.	mm	Φ25	Φ25	Φ25	Φ25
	Thickness	mm	2.5	2.5	2.5	2.5
Dimension (W×D×H)	Outline	mm	1340×655×260	1340×655×260	1340×655×260	1340×655×260
	Package	mm	1588×858×315	1588×858×315	1588×858×315	1588×858×315
Net weight/Gross weight		kg	45.5/54.5	45.5/54.5	46.5/55.5	46.5/55.5
Loading quantity	40'GP	unit	105	105	105	105
	40'HQ	unit	120	120	120	120

360° Air Discharge Cassette Indoor Unit

Model				GMV-ND22T/C-T	GMV-ND28T/C-T	GMV-ND36T/C-T	GMV-ND45T/C-T	GMV-ND50T/C-T
Capacity		Cooling	kW	2.2	2.8	3.6	4.5	5.0
		Heating	kW	2.5	3.2	4.0	5.0	5.6
Power supply			V/Ph/Hz	220-240V~ 50Hz & 208-230V~ 60Hz				
Power consumption			W	26	26	26	26	28
Airflow volume(H/M/L)			m^3/h	800/700/600	800/700/600	800/700/600	800/700/600	900/800/700
Rated current		Cooling	A	0.2	0.2	0.2	0.2	0.2
		Heating	A	0.2	0.2	0.2	0.2	0.2
Sound pressure level(H/M/L)			dB(A)	33/30/28	33/30/28	33/30/28	34/30/28	35/32/29
Connecting pipe		Liquid	mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35
		Gas	mm	Φ9.52	Φ9.52	Φ12.7	Φ12.7	Φ12.7
Drain pipe		External dia.	mm	Φ25	Φ25	Φ25	Φ25	Φ25
		Thickness	mm	2.5	2.5	2.5	2.5	2.5
Main body	Dimension (W×D×H)	Outline	mm	840×840×240	840×840×240	840×840×240	840×840×240	840×840×240
		Package	mm	963×963×325	963×963×325	963×963×325	963×963×325	963×963×325
	Net weight/Gross weight		kg	27.0/35.0	27.0/35.0	27.0/35.0	27.0/35.0	28.0/36.0
Panel	Model			TF06	TF06	TF06	TF06	TF06
	Dimension (W×D×H)	Outline	mm	950×950×65	950×950×65	950×950×65	950×950×65	950×950×65
		Package	mm	1033×1020×110	1033×1020×110	1033×1020×110	1033×1020×110	1033×1020×110
	Net weight/Gross weight		kg	6.0/9.5	6.0/9.5	6.0/9.5	6.0/9.5	6.0/9.5
Loading quantity		40'GP	unit	126	126	126	126	126
		40'HQ	unit	144	144	144	144	144

Model				GMV-ND56T/C-T	GMV-ND63T/C-T	GMV-ND71T/C-T	GMV-ND80T/C-T	GMV-ND90T/C-T
Capacity		Cooling	kW	5.6	6.3	7.1	8.0	9.0
		Heating	kW	6.3	7.1	8.0	9.0	10.0
Power supply			V/Ph/Hz	220-240V~ 50Hz & 208-230V~ 60Hz				
Power consumption			W	35	60	60	85	85
Airflow volume(H/M/L)			m^3/h	950/850/750	1150/950/850	1150/950/850	1250/1000/900	1250/1000/900
Rated current		Cooling	A	0.2	0.4	0.4	0.4	0.4
		Heating	A	0.2	0.4	0.4	0.4	0.4
Sound pressure level(H/M/L)			dB(A)	37/33/30	37/34/31	37/34/31	39/37/34	39/37/34
Connecting pipe		Liquid	mm	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52
		Gas	mm	Φ15.9	Φ15.9	Φ15.9	Φ15.9	Φ15.9
Drain pipe		External dia.	mm	Φ25	Φ25	Φ25	Φ25	Φ25
		Thickness	mm	2.5	2.5	2.5	2.5	2.5
Main body	Dimension (W×D×H)	Outline	mm	840×840×240	840×840×240	840×840×240	840×840×240	840×840×240
		Package	mm	963×963×325	963×963×325	963×963×325	963×963×325	963×963×325
	Net weight/Gross weight		kg	28.0/36.0	28.0/36.0	28.0/36.0	29.0/37.0	29.0/37.0
Panel	Model			TF06	TF06	TF06	TF06	TF06
	Dimension (W×D×H)	Outline	mm	950×950×65	950×950×65	950×950×65	950×950×65	950×950×65
		Package	mm	1033×1020×110	1033×1020×110	1033×1020×110	1033×1020×110	1033×1020×110
	Net weight/Gross weight		kg	6.0/9.5	6.0/9.5	6.0/9.5	6.0/9.5	6.0/9.5
Loading quantity		40'GP	unit	126	126	126	126	126
		40'HQ	unit	144	144	144	144	144

Model				GMV-ND100T/C-T	GMV-ND112T/C-T	GMV-ND125T/C-T	GMV-ND140T/C-T	GMV-ND160T/C-T
Capacity		Cooling	kW	10.0	11.2	12.5	14.0	16.0
		Heating	kW	11.2	12.5	14.0	16.0	18.0
Power supply			V/Ph/Hz	220-240V~ 50Hz & 208-230V~ 60Hz				
Power consumption			W	85	115	115	115	170
Airflow volume(H/M/L)			m^3/h	1250/1000/900	1650/1300/1100	1650/1300/1100	1650/1300/1100	2000/1800/1430
Rated current		Cooling	A	0.4	0.6	0.6	0.6	1.2
		Heating	A	0.4	0.6	0.6	0.6	1.2
Sound pressure level(H/M/L)			dB(A)	39/37/34	43/41/39	43/41/39	43/41/39	51/48/42
Connecting pipe		Liquid	mm	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52
		Gas	mm	Φ15.9	Φ15.9	Φ15.9	Φ15.9	Φ19.05
Drain pipe		External dia.	mm	Φ25	Φ25	Φ25	Φ25	Φ25
		Thickness	mm	2.5	2.5	2.5	2.5	2.5
Main body	Dimension (W×D×H)	Outline	mm	840×840×240	840×840×290	840×840×290	840×840×290	840×840×290
		Package	mm	963×963×325	963×963×379	963×963×379	963×963×379	963×963×379
	Net weight/Gross weight		kg	29.0/37.0	33.0/42.0	33.0/42.0	33.0/42.0	36.0/44.0
Panel	Model			TF06	TF06	TF06	TF06	TF06
	Dimension (W×D×H)	Outline	mm	950×950×65	950×950×65	950×950×65	950×950×65	950×950×65
		Package	mm	1033×1020×110	1033×1020×110	1033×1020×110	1033×1020×110	1033×1020×110
	Net weight/Gross weight		kg	6.0/9.5	6.0/9.5	6.0/9.5	6.0/9.5	6.0/9.5
Loading quantity		40'GP	unit	126	113	113	113	113
		40'HQ	unit	144	124	124	124	124

Model				GMV-ND22T/D1-T*	GMV-ND28T/D1-T*	GMV-ND36T/D1-T*	GMV-ND45T/D1-T*	GMV-ND50T/D1-T*
Capacity		Cooling	kW	2.2	2.8	3.6	4.5	5.0
		Heating	kW	2.5	3.2	4.0	5.0	5.6
Power supply			V/Ph/Hz	220-240V~ 50Hz & 208-230V~ 60Hz				
Power consumption			W	40	40	40	50	50
Airflow volume(H/M/L)			m^3/h	800/700/600	800/700/600	800/700/600	900/800/700	900/800/700
Rated current		Cooling	A	0.35	0.35	0.35	0.44	0.44
		Heating	A	0.35	0.35	0.35	0.44	0.44
Sound pressure level(H/M/L)			dB(A)	32/29/27	32/29/27	32/29/27	35/30/27	35/30/27
Connecting pipe		Liquid	mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35
		Gas	mm	Φ9.52	Φ9.52	Φ12.7	Φ12.7	Φ12.7
Drain pipe		External dia.	mm	Φ25	Φ25	Φ25	Φ25	Φ25
		Thickness	mm	2.5	2.5	2.5	2.5	2.5
Main body	Dimension (W×D×H)	Outline	mm	840×840×200	840×840×200	840×840×200	840×840×200	840×840×200
		Package	mm	933×933×255	933×933×255	933×933×255	933×933×255	933×933×255
	Net weight/Gross weight		kg	19/23	19/23	19/23	19/23	19/23
Panel	Dimension (W×D×H)	Outline	mm	950×950×65	950×950×65	950×950×65	950×950×65	950×950×65
		Package	mm	1033×1020×110	1033×1020×110	1033×1020×110	1033×1020×110	1033×1020×110
	Net weight/Gross weight		kg	6.0/9.5	6.0/9.5	6.0/9.5	6.0/9.5	6.0/9.5
Loading quantity		40'GP	unit	152	152	152	152	152
		40'HQ	unit	169	169	169	169	169

Model				GMV-ND56T/D1-T*	GMV-ND63T/D1-T*	GMV-ND71T/D1-T*	GMV-ND80T/D1-T*	GMV-ND90T/D1-T*
Capacity		Cooling	kW	5.6	6.3	7.1	8.0	9.0
		Heating	kW	6.3	7.1	8.0	9.0	10.0
Power supply			V/Ph/Hz	220-240V~ 50Hz & 208-230V~ 60Hz				
Power consumption			W	60	60	60	75	75
Airflow volume(H/M/L)			m^3/h	1100/935/850	1100/935/850	1100/935/850	1400/1000/900	1400/1000/900
Rated current		Cooling	A	0.49	0.49	0.49	0.60	0.60
		Heating	A	0.49	0.49	0.49	0.60	0.60
Sound pressure level(H/M/L)			dB(A)	37/35/32	37/35/32	37/35/32	40/36/31	40/36/31
Connecting pipe		Liquid	mm	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52
		Gas	mm	Φ15.9	Φ15.9	Φ15.9	Φ15.9	Φ15.9
Drain pipe		External dia.	mm	Φ25	Φ25	Φ25	Φ25	Φ25
		Thickness	mm	2.5	2.5	2.5	2.5	2.5
Main body	Dimension (W×D×H)	Outline	mm	840×840×200	840×840×200	840×840×200	840×840×240	840×840×240
		Package	mm	933×933×255	933×933×255	933×933×255	933×933×292	933×933×292
	Net weight/Gross weight		kg	21/25	21/25	21/25	22.5/27.5	22.5/27.5
Panel	Dimension (W×D×H)	Outline	mm	950×950×65	950×950×65	950×950×65	950×950×65	950×950×65
		Package	mm	1033×1020×110	1033×1020×110	1033×1020×110	1033×1020×110	1033×1020×110
	Net weight/Gross weight		kg	6.0/9.5	6.0/9.5	6.0/9.5	6.0/9.5	6.0/9.5
Loading quantity		40'GP	unit	152	152	152	139	139
		40'HQ	unit	169	169	169	157	157

Model				GMV-ND100T/D1-T*	GMV-ND112T/D1-T*	GMV-ND125T/D1-T*	GMV-ND140T/D1-T*
Capacity		Cooling	kW	10.0	11.2	12.5	14.0
		Heating	kW	11.2	12.5	14.0	16.0
Power supply			V/Ph/Hz	220-240V~ 50Hz & 208-230V~ 60Hz			
Power consumption			W	100	100	160	160
Airflow volume(H/M/L)			m^3/h	1550/1200/1000	1550/1200/1000	1800/1450/1150	1800/1450/1150
Rated current		Cooling	A	0.76	0.76	0.85	0.85
		Heating	A	0.76	0.76	0.85	0.85
Sound pressure level(H/M/L)			dB(A)	43/39/35	43/39/35	46/41/35	46/41/35
Connecting pipe		Liquid	mm	Φ9.52	Φ9.52	Φ9.52	Φ9.52
		Gas	mm	Φ15.9	Φ15.9	Φ15.9	Φ15.9
Drain pipe		External dia.	mm	Φ25	Φ25	Φ25	Φ25
		Thickness	mm	2.5	2.5	2.5	2.5
Main body	Dimension (W×D×H)	Outline	mm	840×840×240	840×840×240	840×840×290	840×840×290
		Package	mm	933×933×292	933×933×292	933×933×345	933×933×345
	Net weight/Gross weight		kg	22.5/27.5	22.5/27.5	25/30.5	25/30.5
Panel	Dimension (W×D×H)	Outline	mm	950×950×65	950×950×65	950×950×65	950×950×65
		Package	mm	1033×1020×110	1033×1020×110	1033×1020×110	1033×1020×110
	Net weight/Gross weight		kg	6.0/9.5	6.0/9.5	6.0/9.5	6.0/9.5
Loading quantity		40'GP	unit	139	139	117	117
		40'HQ	unit	157	157	135	135

*Note: This model is not suitable for EU market.

360° Air Discharge Compact Cassette Indoor Unit

Model				GMV-ND15T/E-T	GMV-ND18T/E-T	GMV-ND22T/E-T	GMV-ND28T/E-T
Capacity		Cooling	kW	1.5	1.8	2.2	2.8
		Heating	kW	1.8	2.2	2.5	3.2
Power supply			V/Ph/Hz	220-240V~ 50Hz & 208-230V~ 60Hz			
Power consumption			W	30	30	30	30
Airflow volume(H/M/L)			m^3/h	460/420/370	460/420/370	500/460/370	570/480/420
Rated current		Cooling	A	0.15	0.15	0.15	0.15
		Heating	A	0.15	0.15	0.15	0.15
Sound pressure level(H/M/L)			dB(A)	33/30/25	33/30/25	36/31/25	36/33/28
Connecting pipe		Liquid	mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35
		Gas	mm	Φ9.52	Φ9.52	Φ9.52	Φ9.52
Drain pipe		External dia.	mm	Φ25	Φ25	Φ25	Φ25
		Thickness	mm	2.5	2.5	2.5	2.5
Main body	Dimension (W×D×H)	Outline	mm	570×570×265	570×570×265	570×570×265	570×570×265
		Package	mm	698×653×295	698×653×295	698×653×295	698×653×295
	Net weight/Gross weight		kg	17.5/22.5	17.5/22.5	17.5/22.5	17.5/22.5
Panel	Model			TF05	TF05	TF05	TF05
	Dimension (W×D×H)	Outline	mm	620×620×47.5	620×620×47.5	620×620×47.5	620×620×47.5
		Package	mm	701×701×125	701×701×125	701×701×125	701×701×125
	Net weight/Gross weight		kg	3.0/4.5	3.0/4.5	3.0/4.5	3.0/4.5
Loading quantity		40'GP	unit	378	378	378	378
		40'HQ	unit	432	432	432	432

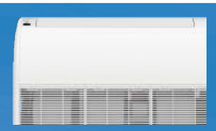
Model				GMV-ND36T/E-T	GMV-ND45T/E-T	GMV-ND50T/E-T	GMV-ND56T/E-T
Capacity		Cooling	kW	3.6	4.5	5.0	5.6
		Heating	kW	4.0	5.0	5.6	6.3
Power supply			V/Ph/Hz	220-240V~ 50Hz & 208-230V~ 60Hz			
Power consumption			W	30	45	45	45
Airflow volume(H/M/L)			m^3/h	620/550/480	730/650/560	730/650/560	730/650/560
Rated current		Cooling	A	0.15	0.23	0.23	0.23
		Heating	A	0.15	0.23	0.23	0.23
Sound pressure level(H/M/L)			dB(A)	39/37/35	43/41/39	43/41/39	43/41/39
Connecting pipe		Liquid	mm	Φ6.35	Φ6.35	Φ6.35	Φ9.52
		Gas	mm	Φ12.7	Φ12.7	Φ12.7	Φ15.9
Drain pipe		External dia.	mm	Φ25	Φ25	Φ25	Φ25
		Thickness	mm	2.5	2.5	2.5	2.5
Main body	Dimension (W×D×H)	Outline	mm	570×570×265	570×570×265	570×570×265	570×570×265
		Package	mm	698×653×295	698×653×295	698×653×295	698×653×295
	Net weight/Gross weight		kg	17.5/22.5	17.5/22.5	17.5/22.5	17.5/22.5
Panel	Model			TF05	TF05	TF05	TF05
	Dimension (W×D×H)	Outline	mm	620×620×47.5	620×620×47.5	620×620×47.5	620×620×47.5
		Package	mm	701×701×125	701×701×125	701×701×125	701×701×125
	Net weight/Gross weight		kg	3.0/4.5	3.0/4.5	3.0/4.5	3.0/4.5
Loading quantity		40'GP	unit	378	378	378	378
		40'HQ	unit	432	432	432	432

2-way Cassette Indoor Unit

Model				GMV-ND28TS/B-T	GMV-ND36TS/B-T	GMV-ND45TS/B-T	GMV-ND50TS/B-T	GMV-ND56TS/B-T	GMV-ND63TS/B-T	GMV-ND71TS/B-T	GMV-ND80TS/B-T
Capacity		Cooling	kW	2.8	3.6	4.5	5.0	5.6	6.3	7.1	8.0
		Heating	kW	3.2	4.0	5.0	5.6	6.3	7.1	8.0	9.0
Power supply			V/Ph/Hz	220-240V~ 50Hz & 208-230V~ 60Hz							
Power consumption			W	20	20	30	30	30	30	55	55
Airflow volume(H/M/L)			m^3/h	671/616/513	671/616/513	715/616/513	715/616/513	764/709/676	764/709/676	816/745/660	816/745/660
Rated current		Cooling	A	0.25	0.25	0.30	0.30	0.30	0.30	0.49	0.49
		Heating	A	0.25	0.25	0.30	0.30	0.30	0.30	0.49	0.49
Sound pressure level(H/M/L)			dB(A)	33/31/28	33/31/28	35/31/28	35/31/28	37/35/32	37/35/32	39/37/34	39/37/34
Connecting pipe		Liquid	mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ9.52	Φ9.52	Φ9.52	Φ9.52
		Gas	mm	Φ9.52	Φ12.7	Φ12.7	Φ12.7	Φ15.9	Φ15.9	Φ15.9	Φ15.9
Drain pipe		External dia.	mm	Φ25	Φ25	Φ25	Φ25	Φ25	Φ25	Φ25	Φ25
		Thickness	mm	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
Main body	Dimension (W×D×H)	Outline	mm	790×630×280	790×630×280	790×630×280	790×630×280	790×630×280	790×630×280	790×630×280	790×630×280
		Package	mm	1033×740×365	1033×740×365	1033×740×365	1033×740×365	1033×740×365	1033×740×365	1033×740×365	1033×740×365
	Net weight/Gross weight		kg	25.5/33.0	25.5/33.0	25.5/33.0	25.5/33.0	26.0/33.5	26.0/33.5	26.0/33.5	26.0/33.5
Panel	Model			TE03	TE03	TE03	TE03	TE03	TE03	TE03	TE03
	Dimension (W×D×H)	Outline	mm	1100×710×28	1100×710×28	1100×710×28	1100×710×28	1100×710×28	1100×710×28	1100×710×28	1100×710×28
		Package	mm	1230×843×130	1230×843×130	1230×843×130	1230×843×130	1230×843×130	1230×843×130	1230×843×130	1230×843×130
	Net weight/Gross weight		kg	6.0/10.5	6.0/10.5	6.0/10.5	6.0/10.5	6.0/10.5	6.0/10.5	6.0/10.5	6.0/10.5
Loading quantity		40'GP	unit	144	144	144	144	144	144	144	144
		40'HQ	unit	166	166	166	166	166	166	166	166

1-way Cassette Indoor Unit

Model				GMV-ND22TD/A-T	GMV-ND28TD/A-T	GMV-ND36TD/A-T	GMV-ND45TD/A-T	GMV-ND50TD/A-T	GMV-ND56TD/A-T
Capacity		Cooling	kW	2.2	2.8	3.6	4.5	5.0	5.6
		Heating	kW	2.5	3.2	4.0	5.0	5.6	6.3
Power supply			V/Ph/Hz	220-240V~ 50Hz & 208-230V~ 60Hz					
Power consumption			W	30	30	30	45	45	45
Airflow volume(H/M/L£Š			m^3/h	600/500/450	600/500/450	600/500/450	830/600/500	830/600/500	890/667/564
Rated current		Cooling	A	0.2	0.2	0.2	0.3	0.3	0.3
		Heating	A	0.2	0.2	0.2	0.3	0.3	0.3
Sound pressure level(H/M/L)			dB(A)	36/32/28	36/32/28	36/32/28	40/35/30	40/35/30	41/38/35
Connecting pipe		Liquid	mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ9.52
		Gas	mm	Φ9.52	Φ9.52	Φ12.7	Φ12.7	Φ12.7	Φ15.9
Drain pipe		External dia.	mm	Φ25	Φ25	Φ25	Φ25	Φ25	Φ25
		Thickness	mm	2.5	2.5	2.5	2.5	2.5	2.5
Main body	Dimension (W×D×H)	Outline	mm	987×385×178	987×385×178	987×385×178	987×385×178	987×385×178	987×385×178
		Package	mm	1307×501×310	1307×501×310	1307×501×310	1307×501×310	1307×501×310	1307×501×310
	Net weight/Gross weight		kg	20/27	20/27	20/27	21/28.5	21/28.5	21/28.5
Panel	Model			TD01	TD01	TD01	TD01	TD01	TD01
	Dimension (W×D×H)	Outline	mm	1200×460×55	1200×460×55	1200×460×55	1200×460×55	1200×460×55	1200×460×55
		Package	mm	1265×536×121	1265×536×121	1265×536×121	1265×536×121	1265×536×121	1265×536×121
	Net weight/Gross weight		kg	4.2/6	4.2/6	4.2/6	4.2/6	4.2/6	4.2/6
Loading quantity		40'GP	unit	215	215	215	215	215	215
		40'HQ	unit	242	242	242	242	242	242



Model			GMV-ND63TD/B-T	GMV-ND71TD/B-T	GMV-ND80TD/B-T
Capacity	Cooling	kW	6.3	7.1	8.0
	Heating	kW	7.1	8.0	9.0
Power supply		V/Ph/Hz	220-240V~ 50Hz & 208-230V~ 60Hz		
Power consumption		W	57	83	83
Airflow volume(H/M/L£Š		m^3/h	880/680/600	1000/680/600	1000/680/600
Rated current	Cooling	A	0.55	0.86	0.86
	Heating	A	0.55	0.86	0.86
Sound pressure level(H/M/L)		dB(A)	42/39/36	44/39/36	44/39/36
Connecting pipe	Liquid	mm	Φ9.52	Φ9.52	Φ9.52
	Gas	mm	Φ15.9	Φ15.9	Φ15.9
Drain pipe	External dia.	mm	Φ25	Φ25	Φ25
	Thickness	mm	2.50	2.50	2.50
Main body	Dimension (W×D×H) Outline	mm	1200×470×200	1200×470×200	1200×470×200
	Dimension (W×D×H) Package	mm	1438×548×255	1438×548×255	1438×548×255
	Net weight/Gross weight	kg	26/31.5	26/31.5	26/31.5
Panel	Model		TD03	TD03	TD03
	Dimension (W×D×H) Outline	mm	1350×555×64	1350×555×64	1350×555×64
	Dimension (W×D×H) Package	mm	1443×648×155	1443×648×155	1443×648×155
	Net weight/Gross weight	kg	7.8/13.5	7.8/13.5	7.8/13.5
Loading quantity	40'GP	unit	170	170	170
	40'HQ	unit	189	189	189

Floor Ceiling Type Indoor Unit

Model			GMV-ND28ZD/B-T	GMV-ND36ZD/B-T	GMV-ND50ZD/B-T	GMV-ND56ZD/B-T	GMV-ND63ZD/B-T	GMV-ND71ZD/B-T
Capacity	Cooling	kW	2.8	3.6	5.0	5.6	6.3	7.1
	Heating	kW	3.2	4.0	5.6	6.3	7.1	8.0
Power supply		V/Ph/Hz	220-240V~ 50Hz & 208-230V~ 60Hz					
Power consumption		W	35	35	55	55	80	80
Airflow volume(H/M/L)		m^3/h	600/500/450	600/500/450	750/650/600	750/650/600	1350/1200/1050	1350/1200/1050
Rated current	Cooling	A	0.2	0.2	0.3	0.3	0.4	0.4
	Heating	A	0.2	0.2	0.3	0.3	0.4	0.4
Sound pressure level(H/M/L)		dB(A)	36/32/29	36/32/29	42/39/36	42/39/36	44/41/38	44/41/38
Connecting pipe	Liquid	mm	Φ6.35	Φ6.35	Φ6.35	Φ9.52	Φ9.52	Φ9.52
	Gas	mm	Φ9.52	Φ12.7	Φ12.7	Φ15.9	Φ15.9	Φ15.9
Drain pipe	External dia.	mm	Φ17	Φ17	Φ17	Φ17	Φ17	Φ17
	Thickness	mm	1.75	1.75	1.75	1.75	1.75	1.75
Dimension (W×D×H)	Outline	mm	870×665×235	870×665×235	870×665×235	870×665×235	1200×665×235	1200×665×235
	Package	mm	973×770×300	973×770×300	973×770×300	973×770×300	1303×770×300	1303×770×300
Net weight/Gross weight		kg	24/29	24/29	25/30	25/30	32/38	32/38
Loading quantity	40'GP	unit	252	252	252	252	189	189
	40'HQ	unit	288	288	288	288	216	216

Model			GMV-ND90ZD/B-T	GMV-ND112ZD/B-T	GMV-ND125ZD/B-T	GMV-ND140ZD/B-T	GMV-ND160ZD/B-T
Capacity	Cooling	kW	9.0	11.2	12.5	14.0	16.0
	Heating	kW	10.0	12.5	14.0	16.0	18.0
Power supply		V/Ph/Hz	220-240V~ 50Hz & 208-230V~ 60Hz				
Power consumption		W	120	120	120	150	175
Airflow volume(H/M/L)		m^3/h	1550/1400/1250	1800/1600/1400	1800/1600/1400	2000/1750/1600	2150/1850/1650
Rated current	Cooling	A	0.7	0.7	0.7	0.8	0.9
	Heating	A	0.7	0.7	0.7	0.8	0.9
Sound pressure level(H/M/L)		dB(A)	47/44/41	47/44/42	47/44/42	49/45/43	52/48/45
Connecting pipe	Liquid	mm	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52
	Gas	mm	Φ15.9	Φ15.9	Φ15.9	Φ15.9	Φ19.05
Drain pipe	External dia.	mm	Φ17	Φ17	Φ17	Φ17	Φ17
	Thickness	mm	1.75	1.75	1.75	1.75	1.75
Dimension (W×D×H)	Outline	mm	1200×665×235	1570×665×235	1570×665×235	1570×665×235	1570×665×235
	Package	mm	1303×770×300	1669×770×300	1669×770×300	1669×770×300	1669×770×300
Net weight/Gross weight		kg	33/39	41/48	41/48	43/50	43/50
Loading quantity	40'GP	unit	189	147	147	147	147
	40'HQ	unit	216	168	168	168	168

Wall-mounted Type Indoor Unit

Model			GMV-ND15G/B4B-T	GMV-ND18G/B4B-T	GMV-ND22G/B4B-T	GMV-ND28G/B4B-T	GMV-ND36G/B4B-T	GMV-ND45G/B4B-T	GMV-ND50G/B4B-T
Capacity	Cooling	kW	1.5	1.8	2.2	2.8	3.6	4.5	5.0
	Heating	kW	1.8	2.2	2.5	3.2	4.0	5.0	5.6
Power supply		V/Ph/Hz	220-240V~ 50Hz & 208-230V~ 60Hz						
Power consumption		W	20	20	20	20	25	35	35
Airflow volume(H/M/L)		m^3/h	500/440/300	500/440/300	500/440/300	500/440/300	630/460/320	850/580/500	850/580/500
Rated current	Cooling	A	0.1	0.1	0.1	0.1	0.12	0.17	0.17
	Heating	A	0.1	0.1	0.1	0.1	0.12	0.17	0.17
Sound pressure level(H/M/L)		dB(A)	35/33/30	35/33/30	35/33/30	35/33/30	38/35/31	43/40/37	43/40/37
Connecting pipe	Liquid	mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35
	Gas	mm	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ12.7	Φ12.7	Φ12.7
Drain pipe	External dia.	mm	Φ20	Φ20	Φ20	Φ20	Φ20	Φ20	Φ20
	Thickness	mm	1.5	1.5	1.5	1.5	1.5	1.5	1.5
Dimension (W×D×H)	Outline	mm	845×209×289	845×209×289	845×209×289	845×209×289	845×209×289	970×224×300	970×224×300
	Package	mm	976×281×379	976×281×379	976×281×379	976×281×379	976×281×379	1096×308×395	1096×308×395
Net weight/Gross weight		kg	10.5/12.5	10.5/12.5	10.5/12.5	10.5/12.5	10.5/12.5	12.5/15.5	12.5/15.5
Loading quantity	40'GP	unit	576	576	576	576	576	448	448
	40'HQ	unit	576	576	576	576	576	512	512

Model			GMV-ND56G/B4B-T	GMV-ND63G/B4B-T	GMV-ND71G/B4B-T	GMV-ND80G/B4B-T	GMV-ND90G/B4B-T	GMV-ND100G/B4B-T
Capacity	Cooling	kW	5.6	6.3	7.1	8.0	9.0	9.5
	Heating	kW	6.3	7.1	7.5	9.0	10.0	10.5
Power supply		V/Ph/Hz	220-240V~ 50Hz & 208-230V~ 60Hz					
Power consumption		W	50	50	65	80	80	100
Airflow volume(H/M/L)		m^3/h	1100/850/650	1100/850/650	1200/850/650	1550/1050/800	1550/1050/800	1650/1100/900
Rated current	Cooling	A	0.24	0.24	0.31	0.41	0.41	0.41
	Heating	A	0.24	0.24	0.31	0.41	0.41	0.41
Sound pressure level(H/M/L)		dB(A)	43/41/37	43/41/37	44/41/37	49/46/40	49/46/40	52/48/40
Connecting pipe	Liquid	mm	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52
	Gas	mm	Φ15.9	Φ15.9	Φ15.9	Φ15.9	Φ15.9	Φ15.9
Drain pipe	External dia.	mm	Φ20	Φ20	Φ20	Φ20	Φ20	Φ20
	Thickness	mm	1.5	1.5	1.5	1.5	1.5	1.5
Dimension (W×D×H)	Outline	mm	1078×246×325	1078×246×325	1078×246×325	1350×258×326	1350×258×326	1350×258×326
	Package	mm	1203×338×425	1203×338×425	1203×338×425	1496×357×433	1496×357×433	1496×357×433
Net weight/Gross weight		kg	16/19	16/19	16/19	20/24	20/24	20/24
Loading quantity	40'GP	unit	282	282	282	228	228	228
	40'HQ	unit	329	329	329	266	266	266

Console Indoor Unit

Model			GMV-ND22C/A-T	GMV-ND28C/A-T	GMV-ND36C/A-T	GMV-ND45C/A-T	GMV-ND50C/A-T
Capacity	Cooling	kW	2.2	2.8	3.6	4.5	5.0
	Heating	kW	2.5	3.2	4.0	5.0	5.5
Power supply		V/Ph/Hz	220-240V~ 50Hz & 208-230V~ 60Hz				
Power consumption		W	15	15	20	40	40
Airflow volume(H/M/L)		m^3/h	400/320/270	400/320/270	480/400/310	680/600/500	680/600/500
Rated current	Cooling	A	0.17	0.17	0.25	0.4	0.4
	Heating	A	0.17	0.17	0.25	0.4	0.4
Sound pressure level(H/M/L)		dB(A)	38/33/27	38/33/27	40/37/32	46/43/39	46/43/39
Connecting pipe	Liquid	mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35
	Gas	mm	Φ9.52	Φ9.52	Φ12.7	Φ12.7	Φ12.7
Drain pipe	External dia.	mm	Φ28	Φ28	Φ28	Φ28	Φ28
	Thickness	mm	1	1	1	1	1
Dimension (W×D×H)	Outline	mm	700×215×600	700×215×600	700×215×600	700×215×600	700×215×600
	Package	mm	788×283×777	788×283×777	788×283×777	788×283×777	788×283×777
Net weight/Gross weight		kg	16/19	16/19	16/19	16/19	16/19
Loading quantity	40'GP	unit	348	348	348	348	348
	40'HQ	unit	348	348	348	348	348

Floor Standing Type

Model			GMV-ND100L/A-T	GMV-ND140L/A-T
Capacity	Cooling	kW	10.0	14.0
	Heating	kW	11.0	15.0
Power supply		V/Ph/Hz	220-240V~ 50Hz & 208-230V~ 60Hz	
Power consumption		W	200	200
Airflow volume(H/M/L)		m^3/h	1850/1600/1400	1850/1600/1400
Sound pressure level(H/M/L)		dB(A)	50/48/46	50/48/46
Connecting pipe	Liquid	mm	Φ9.52	Φ9.52
	Gas	mm	Φ15.9	Φ15.9
Drain pipe	External dia.	mm	Φ31	Φ31
	Thickness	mm	4.5	4.5
Dimension (W×D×H)	Outline	mm	580×400×1870	580×400×1870
	Package	mm	738×545×2083	738×545×2083
Net weight/Gross weight		kg	54.0/74.0	57.0/77.0
Loading quantity	40'GP	unit	67	67
	40'HQ	unit	67	67

Concealed Floor Standing Type

Model			GMV-ND22ZA/A-T	GMV-ND28ZA/A-T	GMV-ND36ZA/A-T	GMV-ND45ZA/A-T	GMV-ND56ZA/A-T	GMV-ND63ZA/A-T	GMV-ND71ZA/A-T
Capacity	Cooling	kW	2.2	2.8	3.6	4.5	5.6	6.3	7.1
	Heating	kW	2.5	3.2	4.0	5.0	6.3	7.1	8.0
Power supply		V/Ph/Hz	220-240V~ 50Hz & 208-230V~ 60Hz						
Power consumption		W	35	35	43	45	80	80	90
Airflow volume(H/M/L)		m^3/h	450/350/250	450/350/250	550/450/350	650/500/400	900/750/600	900/750/600	1100/900/700
Rated current	Cooling	A	0.18	0.18	0.22	0.23	0.41	0.41	0.46
	Heating	A	0.18	0.18	0.22	0.23	0.41	0.41	0.46
ESP		Pa	10/0 ～ 40	10/0 ～ 40	10/0 ～ 40	15/0 ～ 60	15/0 ～ 60	15/0 ～ 60	15/0 ～ 60
Sound pressure level(H/M/L)		dB(A)	30/28/25	30/28/25	33/31/28	33/31/28	35/33/30	35/33/30	37/35/33
Connecting pipe	Liquid	mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ9.52	Φ9.52	Φ9.52
	Gas	mm	Φ9.52	Φ9.52	Φ12.7	Φ12.7	Φ15.9	Φ15.9	Φ15.9
Drain pipe	External dia.	mm	Φ25	Φ25	Φ25	Φ25	Φ25	Φ25	Φ25
	Thickness	mm	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Dimension (W×D×H)	Outline	mm	700×200×615	700×200×615	700×200×615	900×200×615	1100×200×615	1100×200×615	1100×200×615
	Package	mm	893×305×743	893×305×743	893×305×743	1123×305×743	1323×305×743	1323×305×743	1323×305×743
Net weight/Gross weight		kg	23/30	23/30	23/30	27/36	32/41	32/41	32/41
Loading quantity	40'GP	unit	273	273	273	217	175	175	175
	40'HQ	unit	312	312	312	248	200	200	200

AHU-KIT

Model			GMV-N36U/C-T	GMV-N71U/C-T			GMV-N140U/C-T				GMV-N280U/C-T						GMV-N560U/C-T		
Defaulted capacity of ex-factory	Capacity		36	71			140				280						560		
	Cooling	kW	3.6	7.1			14.0				28.0						56.0		
	Heating	kW	4.0	8.0			16.0				31.5						63.0		
Adjustable capacity	Capacity		28	36	45	56	71	90	112	140	224	280	335	400	450	504	560	840	
	Cooling	kW	2.8	3.6	4.5	5.6	7.1	9.0	11.2	14.0	22.4	28.0	33.5	40.0	45.0	50.4	56.0	84.0	
	Heating	kW	3.2	4.0	5.0	6.3	8.0	10.0	12.5	16.0	25.0	31.5	37.5	45.0	50.0	56.5	63.0	94.5	
Power input		W	8		8			8			8						8		
Power supply		V/Ph/Hz	220-240V~ 50Hz & 208-230V~ 60Hz																
Size of connection pipe	AHU-KIT (ex-factory pipe size)	mm	Φ6.35	Φ6.35	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ15.9	Φ15.9	Φ15.9	
	Air handling unit Liquid pipe	mm	Φ6.35	Φ6.35	Φ6.35	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ12.7	Φ12.7	Φ12.7	Φ15.9	Φ15.9	Φ19.05	
	Air handling unit Gas pipe	mm	Φ9.52	Φ12.7	Φ12.7	Φ15.9	Φ15.9	Φ15.9	Φ15.9	Φ15.9	Φ19.05	Φ22.2	Φ25.4	Φ25.4	Φ28.6	Φ28.6	Φ28.6	Φ31.8	
	Connection method		Brazing Connection																
Outline dimension (W×D×H)	EXV box	mm	203×326×85		203×326×85			203×326×85			203×326×85					246×500×120			
	Control box		334×284×111		334×284×111			334×284×111			334×284×111					334×284×111			
Package dimension(W×D×H)		mm	539×461×247		539×461×247			539×461×247			539×461×247					759×645×180			
Net weight		kg	10.0		10.5			10.5			10.5					13.0			
Gross weight		kg	13.0		13.5			13.5			13.5					17.5			
Loading	40'GP	unit	990		990			990			990					702			
	40'HP	unit	1100		1100			1100			1100					756			

Model			GMV-N560U/C-T +GMV-N140U/C-T	GMV-N560U/C-T +GMV-N280U/C-T	GMV-N560U/C-T +GMV-N560U/C-T		GMV-N560U/C-T +GMV-N560U/C-T +GMV-N140U/C-T	GMV-N560U/C-T +GMV-N560U/C-T +GMV-N280U/C-T	GMV-N560U/C-T +GMV-N560U/C-T +GMV-N560U/C-T	
Defaulted capacity of ex-factory	Capacity		840+140	840+280	840+560	840+840	840+840+140	840+840+280	840+840+560	840+840+840
	Cooling	kW	98.0	112.0	140.0	168.0	182.0	196.0	224.0	252.0
	Heating	kW	110.5	126.0	157.5	189.0	204.5	220.5	252.0	283.5
Power input		W	8+8	8+8	8+8		8+8+8	8+8+8	8+8+8	
Power supply		V/Ph/Hz	220-240V~ 50Hz & 208-230V~ 60Hz							
Size of connection pipe	Air handling unit Liquid pipe	mm	Φ19.05	Φ19.05	Φ19.05	Φ19.05	Φ19.05	Φ22.2	Φ22.2	Φ22.2
	Air handling unit Gas pipe	mm	Φ38.1	Φ38.1	Φ41.3	Φ41.3	Φ41.3	Φ44.5	Φ44.5	Φ44.5
	Connection method		Brazing Connection							
Outline dimension (W×D×H)	EXV box	mm	246×500×120 +203×326×85	246×500×120 +203×326×85	(246×500×120)×2		(246×500×120)×2 +203×326×85	(246×500×120)×2 +203×326×85	(246×500×120)×3	
	Control box		(334×284×111)×2	(334×284×111)×2	(334×284×111)×2		(334×284×111)×3	(334×284×111)×3	(334×284×111)×3	
Package dimension(W×D×H)		mm	759×645×180+ 539×461×247	759×645×180+ 539×461×247	(759×645×180)×2		(759×645×180)×2 +539×461×247	(759×645×180)×2 +539×461×247	(759×645×180)×3	
Net weight		kg	13.0+10.5	13.0+10.5	13.0+13.0		13.0+13.0+10.5	13.0+13.0+10.5	13.0+13.0+10.5	
Gross weight		kg	17.5+13.5	17.5+13.5	17.5+17.5		17.5+17.5+13.5	17.5+17.5+13.5	17.5+17.5+17.5	

Fresh Air Processing Indoor Unit

Model			GMV-NDX125P/A-T	GMV-NDX140P/A-T	GMV-NDX224P/A-T	GMV-NDX250P/A-T	GMV-NDX280P/A-T	GMV-NX450P/A(X4.0)-M
Capacity	Cooling[1]	kW	12.5	14.0	22.4	25.0	28.0	45.0
	Heating[2]	kW	8.5	10.0	16.0	18.0	20.0	32.0
	Heating[3]	kW	10.5	12.0	20.0	20.0	22.0	35.0
Power supply		V/Ph/Hz	220-240V~ 50Hz & 208-230V~ 60Hz					380-415V 3N~ 50Hz
Power consumption[4]		W	200/350	200/350	400/760	520/860	520/860	1240
ESP[*5]		Pa	150/50~200	150/50~200	200/50 ～ 300	200/50 ～ 300	200/50 ～ 300	200
Airflow volume (Default/Range[6])		m^3/h	1200/1000~2000	1200/1000~2000	2000/1500~3000	2500/2000~3500	2500/2000~3500	4000
Rated current[7]	Cooling	A	1.5/2.0	1.5/2.0	2.5/4.3	3.1/4.9	3.1/4.9	3.4
	Heating	A	1.5/2.0	1.5/2.0	2.5/4.3	3.1/4.9	3.1/4.9	3.4
Sound pressure level (Default/Range[8])		dB(A)	46/40~50	46/40~50	45/45~54	47/47~54	47/47~54	58
Connecting pipe	Liquid	mm	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ12.7
	Gas	mm	Φ15.9	Φ15.9	Φ19.05	Φ22.2	Φ22.2	Φ28.6
Drain pipe	External dia.	mm	Φ25	Φ25	Φ25	Φ25	Φ25	Φ33
	Thickness	mm	2.5	2.5	2.0	2.0	2.0	3.0
Dimension (W×D×H)	Outline	mm	1400×700×300	1400×700×300	1483×791×385	1483×791×385	1483×791×385	1700x1100x650
	Package	mm	1601×813×365	1601×813×365	1578×883×472	1578×883×472	1578×883×472	1893x1463x838
Net weight/Gross weight		kg	54/61	54/61	82/104	82/104	82/104	208/266
Loading quantity	40'GP	unit	84	84	52	52	52	16
	40'HQ	unit	98	98	65	65	65	16

Note:

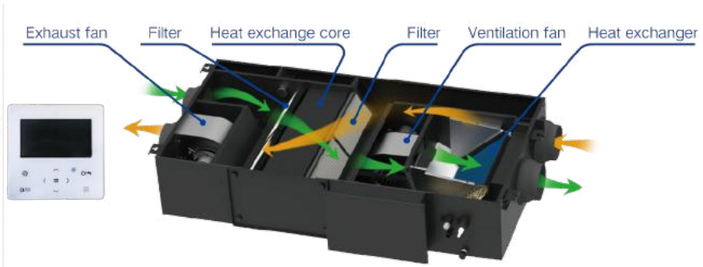
1. Rated cooling capacity test conditions: indoor 35°C DB/28°C WB, outdoor 35°C DB.
2. Rated heating capacity test conditions: indoor 7'C DB, outdoor 7'C DB/6°C WB.
3. Rated heating capacity test conditions: indoor -7°C DB, outdoor O°C DB / -2.9°C WB.
4. As for power consumption column, the left side of "/" is the rated power, and the right side is the max.power.
5. External static pressure: the left side of "/" is the static pressure of a standard unit while the right side is the static pressure option of a non-standard unit.
6. Air volume: the left side of "/" is the rated air volume while the right side is the adjustable fresh air volume.
7. Input current: the left side of "/ " is the rated current while the right side is the maximum current.
8. As to noise: the left side of " / " is the noise value under rated static pressure while the right side is the noise range with the change of static pressure.

Healthy ERVs

(Indoor Air Quality Products)

ERV + DX Coil

This series are fresh air units with evaporators, which means they have total heat exchangers and evaporators. When it's used with outdoor units, it can deliver fresh air without increasing the indoor load. They have multiple operation modes and are widely applicable.



Memory function

Easier maintenance

℃/℉ switch

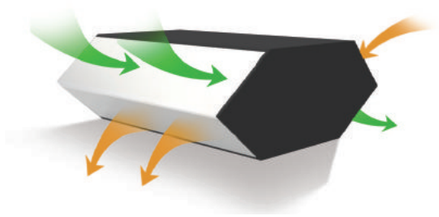
Centralized control

Weekly timer

Child lock

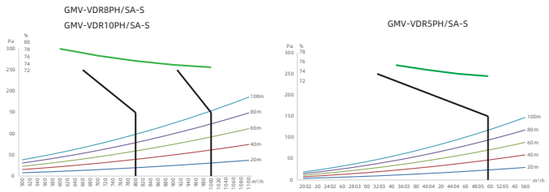
● High-efficiency HR module

They are built with heat exchange chips for efficient energy recovery on the air discharge side. When they are in use, other air conditioning equipment will consume less power.



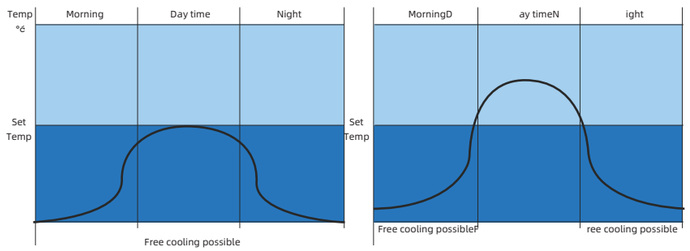
● Constant air volume

Units adopt constant air volume control technology so that they can maintain constant air volume within a specific range of pipeline resistance.



● Free Cooling

When outdoor temperature is lower than the set temperature, units can automatically introduce the fresh outdoor air to make the room cooler. In transition season, free cooling can always be valid; under large temperature difference of day and night in summer, the free cooling mode can also be activated to cool down the indoor temperature.



Example of cooling during transition season

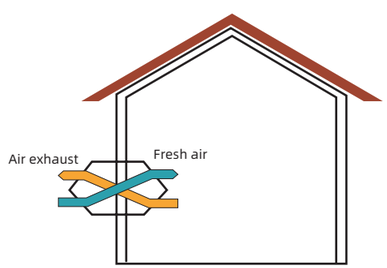
Example of cooling during summer

● Multiple air supply modes:

>> Positive pressure air supply: Different air flow volume can be set for the fresh air side and air discharge side to keep the indoor side under minor posi tive pressure, which will help guarantee room cleanness;

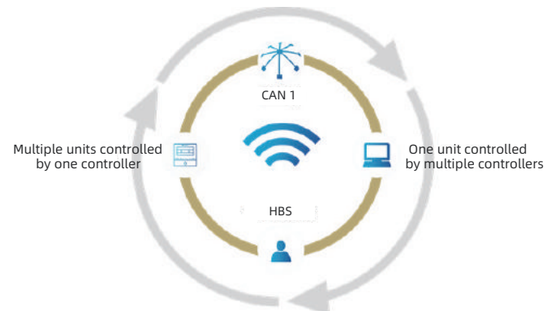
>> Negative pressure air supply: Different air flow volume can be set for the fresh air side and air discharge side to keep the indoor side under minor negative pressure, which will help prevent leakage of indoor pollutants.

>> Balanced air supply: The fresh air side and air discharge side can be set with the same air flow volume (default).



● Linked control:

Units can be connected to other indoor units in the same CAN and HBS networks for linked control.



● Cooling & Heating functions:

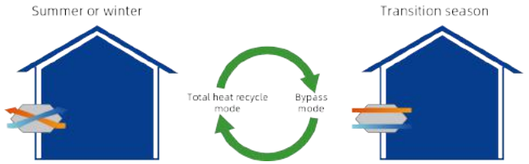
With fan coils, they have cooling and heating functions like common air conditioners. For example: Under the condition of 35℃ (RH60%) for out door temperature, 27℃ (RH50%) for indoor temperature and 73% of heat exchanger efficiency, when the fresh air passes through the core heat exchanger, and it reaches about 29℃, and then the fresh air is further cooled down and dehumidified by the evaporator, so that the fresh air reaches the appro priate temperature before entering the room.

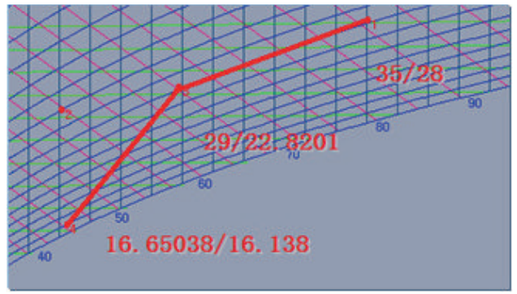
● Multiple operation modes:

>> Total heat exchange mode: There is heat exchange at the fresh air side and air discharge side for efficiency energy recovery.

>> By-pass mode: Ventilation without heat exchange

>> Air discharge mode: Only air discharge side is turned on for ventilation.

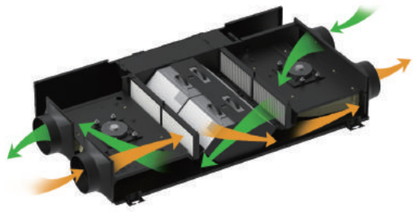




ModelG				MV-VDR5PH/SA-S	GMV-VDR8PH/SA-S	GMV-VDR10PH/SA-S
Rated voltage			V	220-240		
Rated frequency			Hz	50/60		
Cooling capacity			kW	8.5	12.0	14.5
Heating capacity			kW	4.0	10.6	12.0
Power input			kW	0.27	0.44	0.64
Current input			A	1.65	2.73	3.86
Indoor unit	Airflow volume		CFM	294	471	589
			m³/h	500	800	1000
	ESP	Rated	Pa	150	150	150
	Thermal exchange efficiency		%	73	74	73
	Sound power level		dB	55	59	62
	Dimension (W×D×H)	Outline	mm	1700×880×340	1800×1185×390	1800×1185×390
		Package	mm	1988×1138×535	2110×1440×567	2110×1440×567
	Net weight/Gross weight		kg	120/175	158/225	158/225
Ventiduct	Outer diameter		mm	200	250	250
Loading quantity		20'GP/40'GP/40'HQ	unit	20/44/44	16/32/32	16/32/32
Standard wired controller				XE70-33/H		

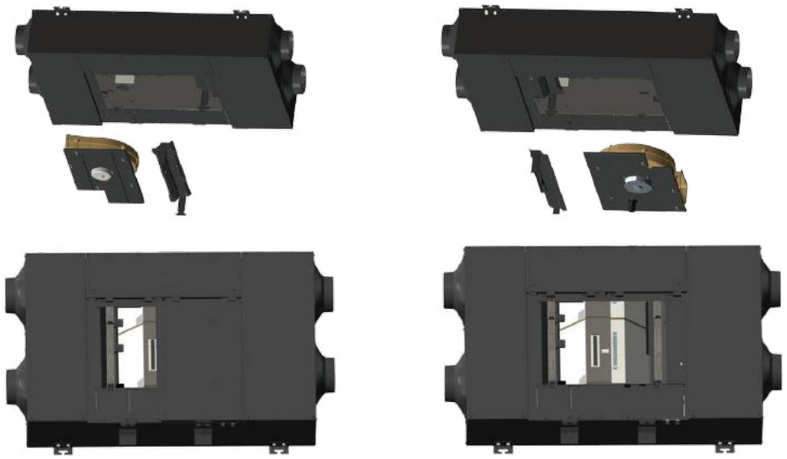
ERV

ERV unit is an air terminal that can purify fresh outdoor air and exchange energy with indoor exhaust air. The unit consists of filters, heat exchangers and fan motors. The fresh outdoor air will pass through the filter and then exchange energy with the exhaust air in the total heat exchanger before entering the room. Through pre-cooling/pre-heating of the outdoor air, it can effectively reduce the fresh air load and achieve ventilation, air filtration and energy conservation.



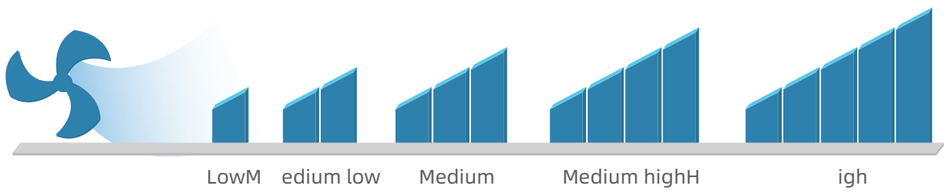
Ultra-thin Body, Convenient Maintenance

The unit is 220mm/240mm thick, which makes it easier to be installed into a narrow ceiling space; the lower service access port is convenient for maintenance.



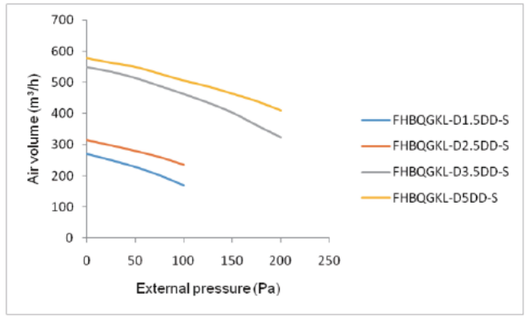
Multi-step Air Volume Control

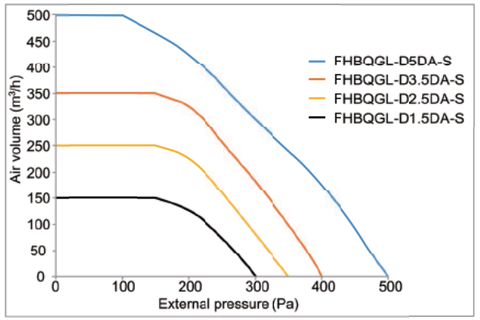
The unit has five-step air speed for adjustment to meet the fresh air require ments of different houses and different piping sizes.



Constant Air Volume Control Technology*

The unit adopts brushless DC motor stepless speed regulation and constant air volume control technology. Within a certain range of external static pressure, the unit judges through independent operation to keep the fresh air volume output constant.



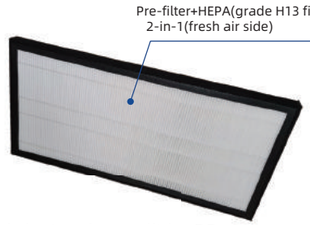


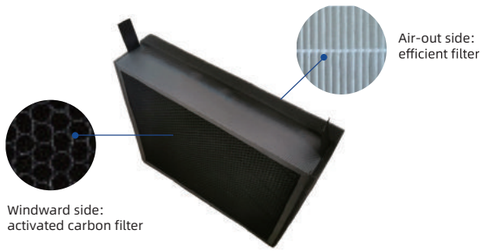
*Note: This feature is only fit for DA series.

Efficient Filtration*

>> There are 2 layers of filters at the front of the core in fresh air side--Pre-filter+HEPA(grade H13 filter material) 2-in-1 filter, which can effectively filter the outdoor air and filter efficiency is up to 99%.

>> The user can install the efficient reinforced filter (Activated carbon filter+efficient filter) at fresh air outlet side. One pass purification efficiency for PM2.5 is up to 99.9%.





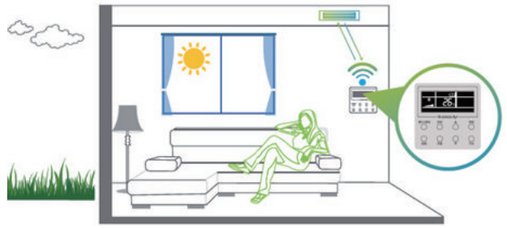
*Note: This feature is only fit for DD series.

Multiple Control Method

The unit can realize linkage control with multi VRF indoor unit (Connection with the multi VRF system is required).

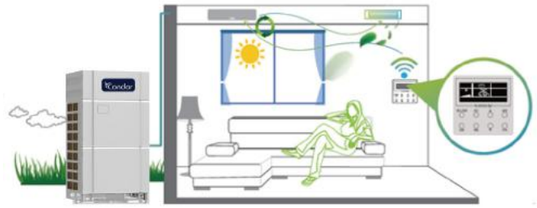
» Manual Control

By using the standard wired controller, users can manually control the start and stop of the fresh air unit.



» Linkage Control

After connecting the fresh air unit to our multi VRF indoor unit through communication wire, set the wired controller of fresh air unit to linkage control mode. When the multi VRF air conditioning system is turned on, the fresh air unit automatically turns on to purify the indoor air; when the multi VRF air conditioning system is turned off, the fresh air unit automatically turns off, worry-free and ener-gy-saving.



Two-way Flow Heat Recovery

The unit brings outdoor fresh air into the room, and at the same time exhausts the indoor dirty air. The fresh air flow and the exhaust air flow conduct counter-flow heat exchange inside the total heat exchanger to efficiently recover the exhaust energy, reduce the fresh air load, and save energy.

DA Series

Model			FHBQGL-D1.5DA-S	FHBQGL-D2.5DA-S	FHBQGL-D3.5DA-S	FHBQGL-D5DA-S
Air flow volume		m^3/h	150	250	350	500
ESP		Pa	100	100	100	100
Temperature exchange efficiency		%	78	75	65	75
Power supply		V/Ph/Hz	220-240 /1/ 50/60	220-240 /1/ 50/60	220-240 /1/ 50/60	220-240 /1/ 50/60
Power input		kW	0.05	0.1	0.15	0.3
Sound power level		dB	39	44	49	55
Dimension (W×D×H)	Outline	mm	1160×700×220	1160×700×220	1200×785×240	1385×785×240
	Package	mm	1468×873×285	1468×873×285	1528×973×305	1711×973×305
Net weight/Gross weight		kg	50/58.5	50/58.5	60/70.5	71.5/82.5
Loading quantity	20' GP/40' GP/40' HQ	unit	82/172/195	82/172/195	57/121/140	54/117/131

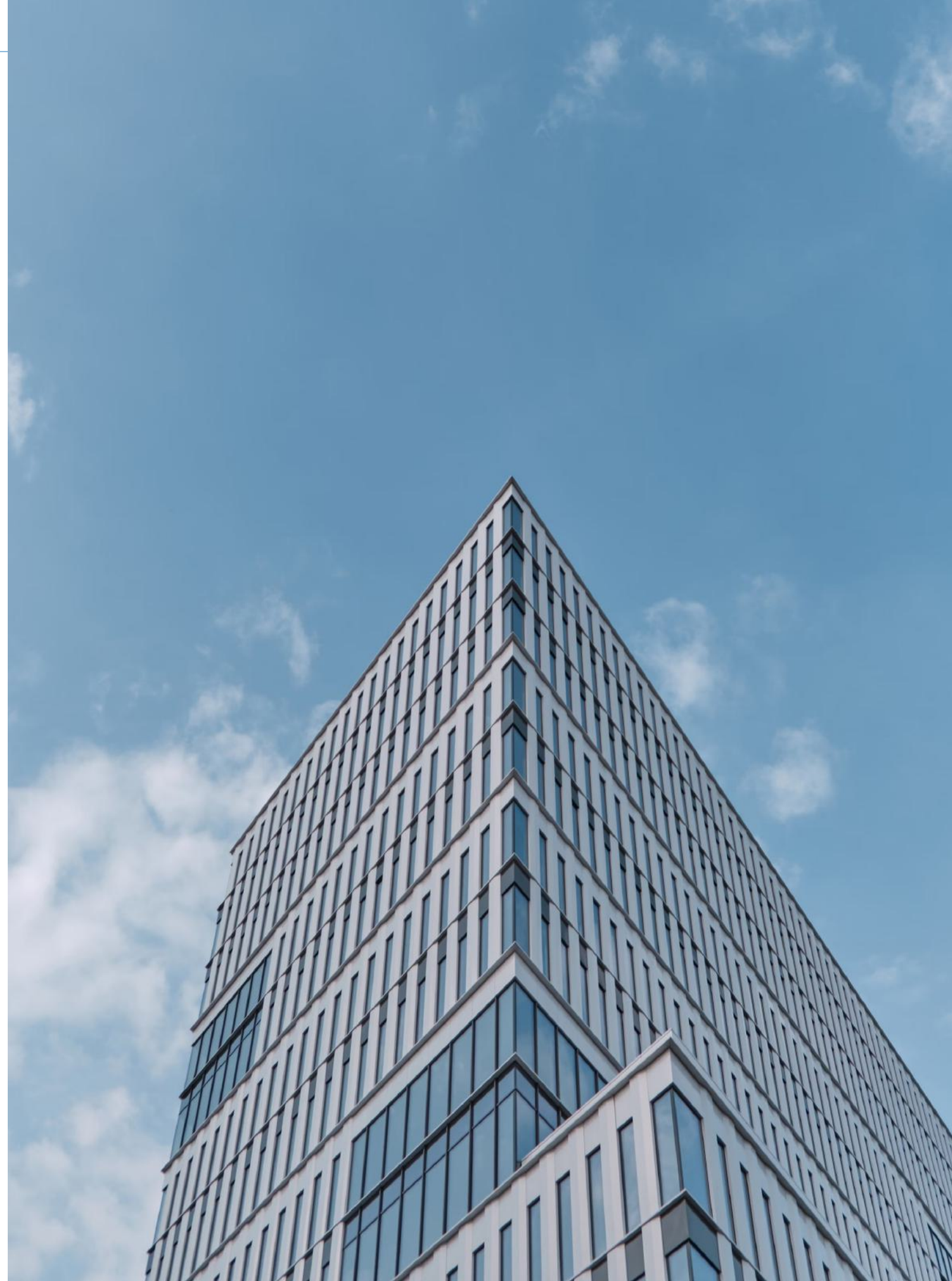
Note: The above products don't have EUROVENT certification and can't be sold to the EU markets.

Model			FHBQGL-D1.5DA-T	FHBQGL-D2.5DA-T	FHBQGL-D3.5DA-T	FHBQGL-D5DA-T
Air flow volume		m^3/h	150	250	350	500
ESP		Pa	100	100	100	100
Temperature exchange efficiency		%	80	75	76	73
Power supply		V/Ph/Hz	208-230/1/60 220-240/1/50	208-230/1/60 220-240/1/50	208-230/1/60 220-240/1/50	208-230/1/60 220-240/1/50
Power input		kW	0.050	0.105	0.155	0.250
Sound power level		dB	43	50	55	57
Dimension (W×D×H)	Outline	mm	1160×700×220	1160×700×220	1200×785×240	1385×785×240
	Package	mm	1468×873×285	1468×873×285	1528×973×305	1711×973×305
Net weight/Gross weight		kg	50/58.5	50/58.5	60/70.5	71.5/82.5
Loading quantity	40' GP/40' HQ	unit	172/195	172/195	121/140	117/131
SEC class		-	A	B	-	-

DD Series

Model			FHBQGKL-D1.5DD-S	FHBQGKL-D2.5DD-S	FHBQGKL-D3.5DD-S	FHBQGKL-D5DD-S
Air flow volume		m^3/h	150	250	350	500
ESP		Pa	100	100	100	100
Enthalpy exchange efficiency	Heating	%	71	62	60	60
	Cooling	%	55	55	55	55
Power supply		V/Ph/Hz	220-240 /1/ 50/60	220-240 /1/ 50/60	220-240 /1/ 50/60	220-240 /1/ 50/60
Power input		kW	0.095	0.135	0.180	0.360
Sound pressure level		dB(A)	33	37	38	44
Dimension (W×D×H)	Outline	mm	660×850×220	660×850×220	900×920×240	900×920×240
	Package	mm	1045×893×285	1045×893×285	1045×893×285	1045×893×285
Net weight/Gross weight		kg	34/41	34/41	48/59	48/59
Loading quantity	20' GP/40' GP/40' HQ	unit	96/208/234	96/208/234	72/160/180	72/160/180

Note: The above products can only be sold to the areas without ceritification requirements.



VRF Controlling Systems

Controllers Functions

Function	Classic wired controller		Large matrix wired controller	Remote controller		Remote Signal Receiving Panel	Linkage Controller
	XE7A-24/H	XE7A-24/HC	XE70-33/H	YAP1F	YAP1F7	JS13	LE60-24/H1
Dimensions (mm)	112×112	112×112	112×112	/	/	86×86	95×63
Display	Positive segment LCD	Positive segment LCD	Matrix LCD	Positive segment LCD	Positive segment LCD	LED	LED
Backlight	✓	✓	✓	×	×	/	/
One controller for multiple units / group control (One controller controls 16 IDUs at most)	✓	✓	✓	×	×	✓	✓
One unit with not only one controller / subsidiary controller (one IDU can be controlled by two wired controllers)	✓	✓	✓	×	×	✓ (It can operate with the master wired controller as an auxiliary device)	✓ (It can operate with the master wired controller as an auxiliary device)
Mode	✓ (auto, cooling, drying, fan only, heating, floor heating, 3D heating, space heating)	✓ (auto, cooling, drying, fan only, heating, floor heating, 3D heating, space heating)	✓ (auto, cooling, drying, fan only, heating, floor heating, 3D heating, space heating)	✓ (auto, cooling, drying, fan only, heating)	✓ (auto, cooling, drying, fan only, heating)	×	×
Fan speed	✓ (7 speeds: auto, low, medium-low, medium, medium-high, high, turbo)	✓ (7 speeds: auto, low, medium-low, medium, medium-high, high, turbo)	✓ (7 speeds: auto, low, medium-low, medium, medium-high, high, turbo)	✓ (7 speeds: auto, low, medium-low, medium, medium-high, high, turbo)	✓ (7 speeds: auto, low, medium-low, medium, medium-high, high, turbo)	×	×
Clock display and setting	✓	✓	✓	✓	✓	×	×
Countdown timer	✓	✓	✓	×	×	×	×
Clock timer	✓	✓	✓	✓	✓	×	×
Weekly timer	×	×	✓	×	×	×	×
Child lock (buttons lock)	✓	✓	✓	✓	✓	×	×
Up&Down swing	✓	✓	✓	✓	✓	×	×
Left&Right swing	✓	✓	✓	✓	✓	×	×
Sleep	✓	✓	✓	✓	✓	×	×
Filter cleaning indication	✓	✓	✓	×	✓	×	×
Save	✓	✓	✓	×	×	×	×
X-Fan	✓	✓	✓	✓	✓	×	×
Quiet	✓	✓	✓	×	✓	×	×
Absence (8℃ heating)	✓	✓	✓	✓	✓	×	×
Low-temperature drying	✓	✓	✓	×	✓	×	×
Access detection	×	×	×	×	×	×	✓
Unit parameters query	✓	✓	✓	×	×	×	×
Unit parameters setting	✓	✓	✓	×	×	×	×
Error display	✓	✓	✓	×	×	✓	×
Remote signal	✓	✓	✓	×	×	✓	✓
Power-off recovery (default to be effective for overseas models and ineffective for domestic models)	✓	✓	✓ ✓	×	×	✓	✓
Indoor temperature query	✓	✓	✓	×	×	×	×
I-Feel	×	×	/	✓	✓	×	×
Set back	✓	✓	×	×	×	×	×
Independent swing for cassette units	×	×	✓	×	×	×	×
APP control	×	✓	×	×	×	×	×
Temperature control with a precision of 0.5℃	✓	✓	×	×	×	×	×

Note: ✓ means available; × means not available; / means not applicable

Controllers Functions

Function	Centralized controller CE52-24/F(C)	E-Smart zone controller CE54-24/F(C)
Maximum number of controllable indoor units	255	32
Maximum number of controllable systems1	61	6
Screen size	7 inch	4.3 inch
Screen resolution	1280×800	480×272
Touch mode	Capacitor touch	Capacitor touch
Power supply	100-240V AC	100-240V AC
Dimensions (WxHxD) (mm)	185×128×11	128×86×11
On/Off setting	✓	✓
Mode setting	✓	✓
Temperature setting	✓	✓
Fan speed setting7	fan speeds7	fan speeds
Swing setting	✓	✓
Shield setting	✓	✓
Ambient temperature display	✓	✓
℃/℉ display	✓	✓
DST	✓	×
Clock display	✓	✓
Authority management	✓	✓
Group management	✓	✓
Schedule management	✓	✓
Special schedule	✓	×
Emergency stop	✓	×
Parameter query	✓	✓
Engineering setting	✓	✓
Error records	✓	✓
IDU sort	✓	×
Name and icon setting	✓	✓
Run time	✓	×
Data export	Support TF card export	×
Language	• English • Simplified Chinese • Traditional Chinese • Spanish • French • Portuguese • German • Turkish • Russian • Italian • Dutch	• English • Simplified Chinese • Traditional Chinese • German
Applicable units	Air conditioner Water heating units Floor heating units Fresh air units	Air conditioner

Note: ✓ means available; × means not available; / means not applicable

Controllers

Controller YAP1F

- Can be switched in auto, cooling, dry, fan and heating modes;
- Besides turbo mode, 6 fan speeds can be set;
- Up & down swing and left & right swing;
- Available functions: child lock, drying, health, turbo, sleep, light, absence, I-feel and timer;
- Clock display and indoor/outdoor ambient temperature viewing functions;
- I-feel function can be set for the unit. When I-feel is turned on, the unit can monitor the temperature at the location of user (around the remote controller) at real time to adjust indoor temperature for improving the comfort.

Remote controller YAP1F7

- Switch among auto, cooling, dry, fan and heating modes;
- Except turbo fan, six fan speeds can be adjusted;
- Set up&down swing and left&right swing;
- With child lock, X-fan, health, turbo, sleep, light, absence, I-FEEL, clock timer and auto clean functions;
- With clock time display and indoor/outdoor ambient temperature check functions£[a]
- Set temperature is adjustable under auto mode (set temperature under auto mode of multi VRF unit is fixed and can't be adjusted by the remote controller)

Note: Auto clean function is available for some models.

Wired Controllers XE7A-24/H and XE7A-24/HC

- Large screen, moisture-proof flat base structure, simple design for flexible installation;
- With LCD backlight display and touch buttons;
- Clock can be displayed and set, with 24h timer ON/OFF function (countdown and clock timer);
- 7 fan speeds, up & down swing and left & right swing;
- Working modes include auto, cooling dry, fan, heating floor Heating, 3D heating and space heating;
- Functions include sleep, quiet/auto quiet, energy-saving, x-fan, low-temperature dehumidifiying absence in heating, filter cleaning reminder, auto cleaning, etc;
- Engineering parameters can be viewed and set;
- Hidden infrared remote control receiving device works with the infrared remote controller;
- Set temperature precision down to 0.5°ć;
- Up to 2 wired controllers for 16 units, which is more flexible for use; a maximum of 16 indoor units can be controlled simultaneously via one master controller and one slave controller;
- WiFi function and APP remote control: after networking, user can control units remotely through an APP in a smart phone. (This function is available only in XE7A-24/HC.)

Wired Controller XE70-33/H

- Elegant and concise appearance;
- Touch buttons with back lighting LCD;
- Detect ambient temperature precisely;
- Chinese and English display can be switched;
- With project parameters viewing and setting functions;
- 7 fan speeds, up & down swing and left & right swing;
- Applicable to multi VRF air conditioner and fresh air unit with evaporator;
- With service hotline inquiry and after-sales phone number record functions;
- With weekly timer function, multiple weekly timer can be set; under weekly timer function, mode, temperature and fan speed can be preset;
- Master and slave wired controllers can be set; simultaneous control over several IDUs is available; can simultaneously control 16 sets of IDUs at most;
- Sleep, quiet/auto quiet, light, energy saving, drying, memory, low-temperature dehumidifying, absence in heating, and filter cleaning reminder functions can be set.

Controllers

Commissioning Tool CE42-24/F(C) (Debugger)

- Built-in 4GB storage space;
- 4.3-inch color touch screen LCD;
- Simulate indoor and outdoor unit;
- With complete unit debugging function;
- With indoor unit control and engineering setting function;
- Outdoor unit program upgrade, indoor unit program upgrade;
- Communication data can be saved and exported by connecting to PC;
- With system status viewing, outdoor unit status viewing, indoor unit status viewing function;
- The single interface is compatible with CAN and RS485 communication, which can automatically identify the communication type.

Centralized Controller CE52-24/F(C)

- Elegant and fashionable appearance;
- Color LCD, fine display and true color;
- 7-inch capacitive touch screen for easy operation;
- Up to 255 units can be centrally controlled;
- Connectable with network of indoor units or outdoor units;
- Independent power supply in 100~240V wide voltage range;
- Embedded installation in wall with projecting thickness only of 11mm;
- With project setting, parameter viewing, malfunction record and access management functions;
- Shielding function of single unit, group and all IDUs (shielding on/off, mode, temp setting, etc.), long-distance control at will;
- Provide naming of indoor units, selection of icons and personalized settings of centralized controller (setting background, backlight, etc.);
- With various functions: centralized control (control all indoor units), group management (support DIY grouping), schedule management (setting of several schedules, support special schedule setting such as holiday) and single

E-Smart Zone Controller CE54-24/F(C)

- Colorful LCD;
- Elegant and fashionable appearance;
- 4.3-inch capacitive touch screen for easy operation;
- Support maximum 32 indoor units, with powerful function;
- Indoor or outdoor unit network can be connected, simple and flexible;
- Embedded installation in wall with projecting thickness only of 11mm;
- 100~240V super wide voltage for independent power supply, stable and reliable;
- Support naming for indoor units, and icon selection, realizing individuation management;
- With long-distance shield function (shield on/off, mode, temperature, etc.) for single unit, group and all indoor units;
- With functions of engineering setting, parameters view, malfunction view and authority management, easy for debugging and maintenance;
- With single indoor unit control (including general functions and advanced functions), group indoor units control (including general functions and advanced functions), group management (supporting DIY group), single indoor unit and group indoor units timer functions; (general functions: ON/OFF, Mode, Temperature, Fan, Swing, etc; advanced functions: Save, Sleep, Absence, Quiet, Turbo, etc.).

Linkage Controller LE60-24/H1

The linkage controller LC60-24/H1 is generally used with wired controllers to control AC units; when needed, it can also be individually connected to control the units. It has the following features:

- Flexibility to be installed in most places indoors, with no impact on indoor decoration;
- Access control detection, with two types of power input: AC 100-240V~50/60Hz or DC 5-24V;
- Dry contact signal detection, with two groups of dry contacts, which can be used to switch on/off indoor units via passive signals such as fire alarm and the opening and closing of windows;
- Up to 2 controllers for 16 units, which is more flexible for use; a maximum of 16 indoor units can be controlled simultaneously via one master controller and one slave controller.

Remote Signal Receiving Panel JS13

- Receive common remote controller functions;
- Simple appearance and integrated design;
- Precise set temperature control with the precision down to 0.5°C(remote controllers with a temperature control precision of 0.5°C are required);
- Up to 2 controllers for 16 units, which is more flexible for use; a maximum of 16 indoor units can be controlled simultaneously via one master controller and one slave controller;
- Hidden infrared remote control receiving device works with the infrared remote controller.

Key Card Interface Modules

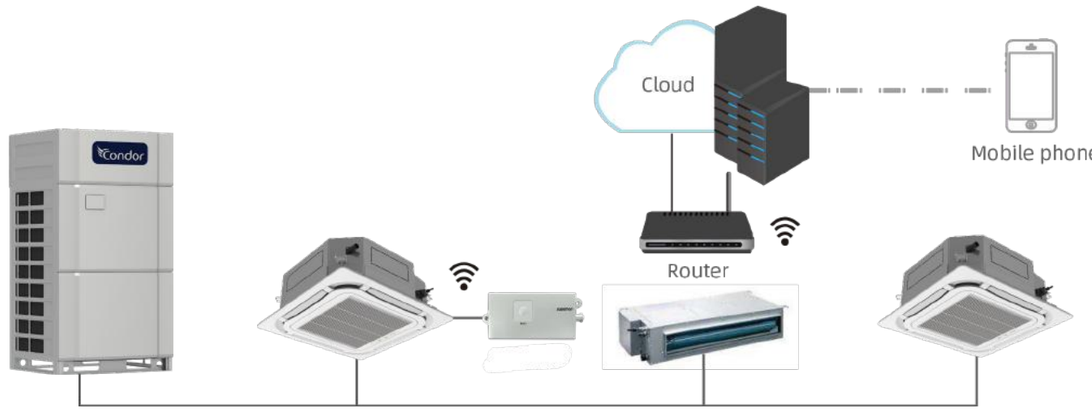
Indoor unit connects access control system through linkage controller LE60-24/H1 to realize unit off by removing the access card or unit on by inserting the access card, which is suitable for occasions such as hotels, where the access control linkage is needed to control the air conditioner.
Moreover, linkage controller LE60-24/H1 provides two groups of dry contacts, which can be used to switch on/off indoor units via signals such as fire alarm and window closing/opening.

ModelL	inkage Controller LE60-24/H1
Appearance	
Wiring diagram	 Note: It s used with different models of wired controller or independently connects indoor unit for operation.
Access control interface	AC100-240V/DC5-24V
Dry contact interface2	groups
Dimensions(H×W×D)(mm)	63×94.5×29
Power supply	18V DC(supply power by indoor unit)
Applicable rangeA	ll series of VRF

Condor-Clouds

Condor-cloud is a compact WiFi controller, which connects Condor-cloud to the corresponding interface of any one of the multi VRF indoor units. Use mobile phone to download the "Condor+" APP; after simple network configuration, the multi VRF air conditioner can be easily controlled by the mobile phone anytime and anywhere. One set of multi VRF system only requires one Condor-cloud to realize the control of all indoor units under the system via mobile phone.

- Easy control of on-off, mode and temperature.
- 8-step fan speed control (quiet, automatic, low, medium and low, medium, medium and high, high, turbo).
- Ventilation, drying, sleep, energy saving functions can be set.
- 10 on/off preset appointments are available, support weekly timer function.



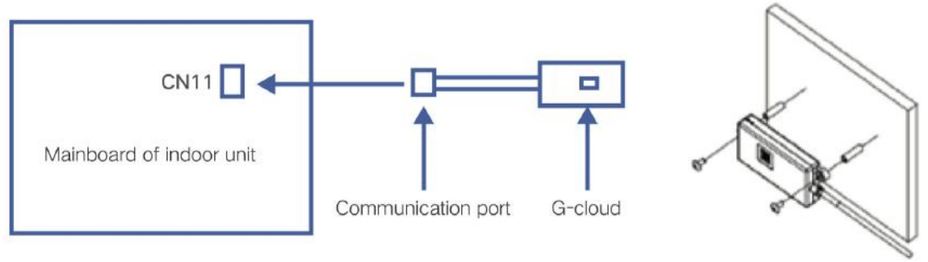
One Condor-could can realize the control of up to 80 sets of indoor units in a system

>> "Condor +" APP Control

The " Condor + " APP of mobile phone can easily control the air conditioner anytime and anywhere. It can be controlled in the house or remotely when going out. You are no longer worried about where to find the remote controller or forgetting to turn off the air conditioner when you go out.

>> Small Size and Convenient Installation

Condor-cloud is small in size and flexible in installation. You can connect the Condor-cloud to the CAN interface of any indoor unit in the multi VRF system (it is recommended to be close to the router) and fix it.



VRF Selector

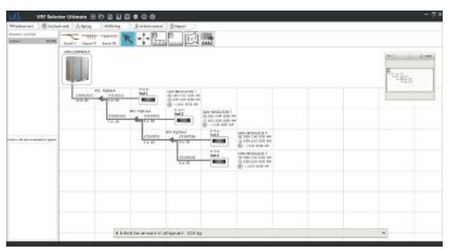
A model selection system is a useful tool for the selection and accurate design of a VRF system. We provides clients with intelligent, fast and multivariate model selection systems.

>> Intelligent Model Selection

1） The system will take multiple aspects into consideration to provide clients with the optima plan by combining performance, noise, comfort, reliability, cost, etc.
2） It can calculate according to user demand, ambient temperature, using location, static pressure, etc.to recommend the suitable IDU, ODU and pipe arrangement. It will check by combining the collocation rate, pipe arrange-ment, etc. of the whole system, and automatically adjust the unit model to get the optimal model selection plan.
3） Using habit and using standard differ in different regions. The intelligent model selection system will conduct a special process according to metric/inch system, unit parameters, different language systems in different regions.
4） It will conduct automatic checking for the whole system. If anyone of the conditions cannot satisfy the user demand, the software will automatically calculate to find a suitable unit and pipe arrangement.

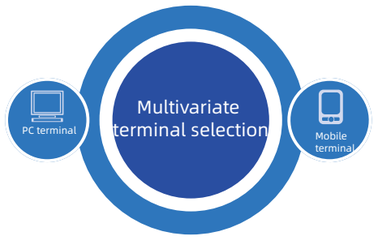
>> Fast Model Selection

The software can provide users with audio-visual model building experience via a visible modeling method. Through the intelligent fast connection, multiple parts of VRF can be correctly and fast linked, which can greatly improve the modeling efficiency.



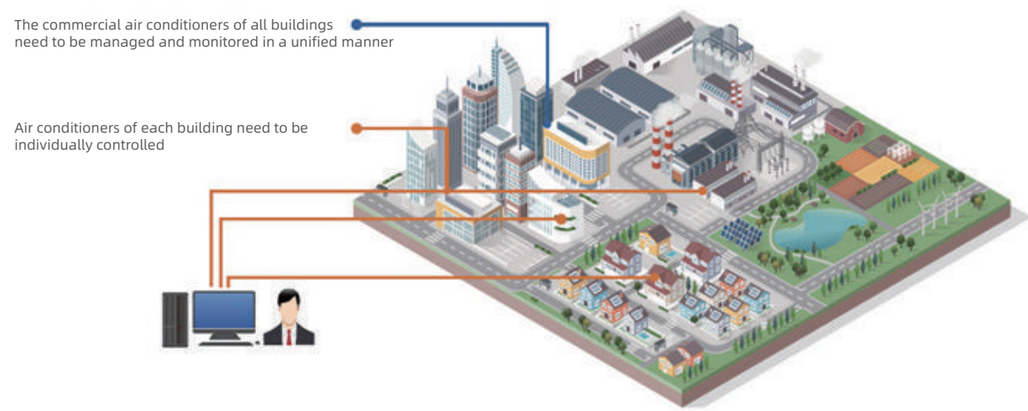
>> Multivariate Model Selection

The model selection system will launch multiple model selection terminal applications around the core of model selection parameter data according to different user groups. The model selection data can achieve data resource sharing on the basis of a cloud server, which can provide different terminal users with standard and professional model selection service.

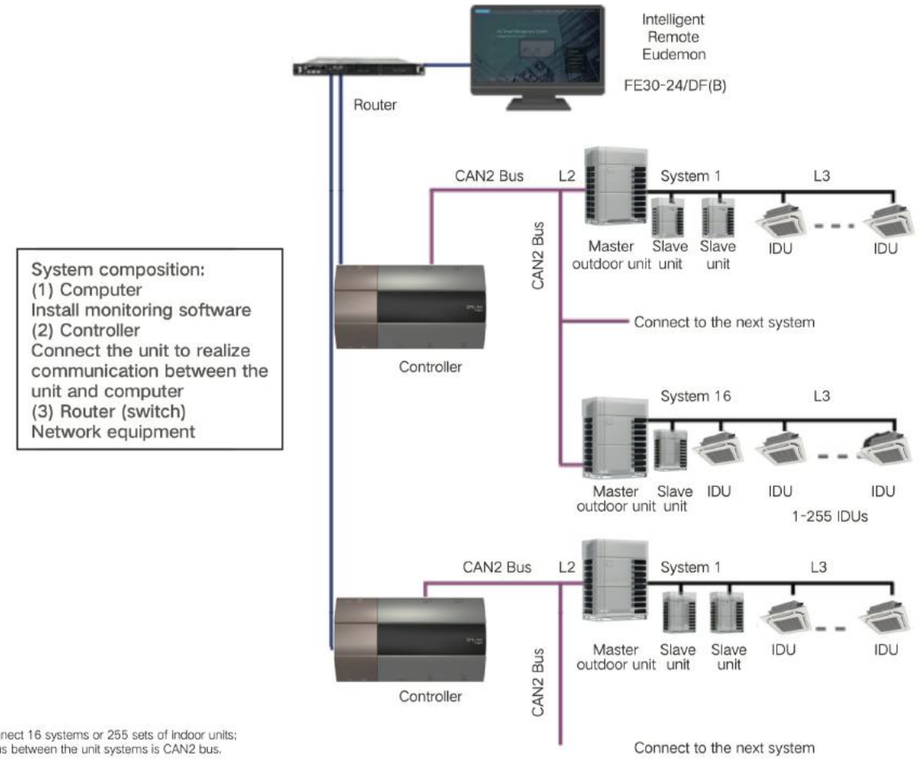


Intelligent Remote Eudemon

Intelligent Remote Eudemon provides intelligent operation and maintenance services based on the cloud platform, meeting the demands of integrated monitoring of equipment in multiple locations.



Intelligent Remote Eudemon adopts world-leading CAN + multi VRF unit' s communication technology and combines with distributed processing methods to ensure that the system has the characteristics of high availability, easy expansion, and easy networking, and can meet the air conditioning monitoring requirements in multiple scenes.



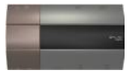
Notes:
(1) One controller can connect 16 systems or 255 sets of indoor units;
(2) The communication bus between the unit systems is CAN2 bus.

Intelligent Assistant

>> One-stop Debugging

Support automatic one-stop debugging methods such as one-button debugging and code scanning debugging to achieve automatic synchronization matching, reduce debugging difficulty, and improve efficiency and accuracy.

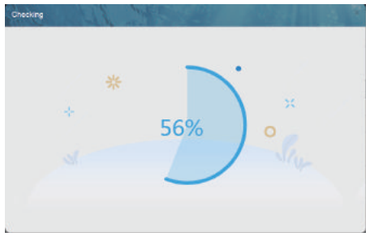
Unit



Controller

>> Intelligent Physical Examination

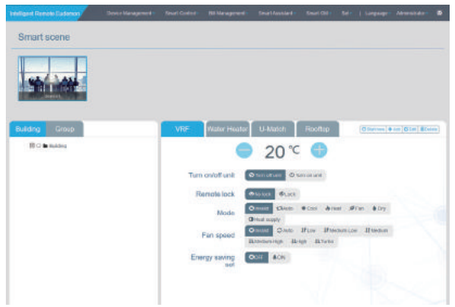
The equipment status can be understood directly and the user can control the health of the unit by them-selves.



Intelligent Control

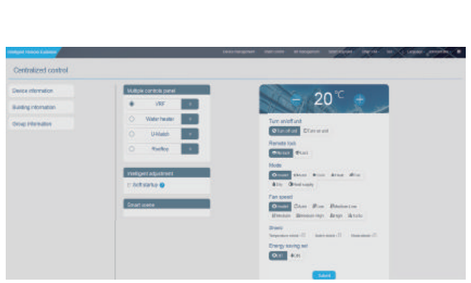
>> Smart Sense

The user can preset a set of parameters according to the needs of life and work (similar to the scene mode of a mobile phone), and then the user can enable and switch with one key, without setting parameters one by one.



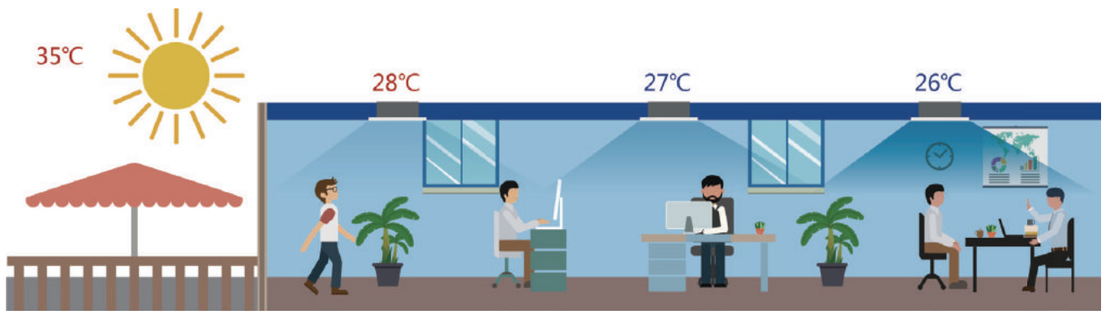
>> Soft Start

The user can preset a set of parameters according to the needs of life and work (similar to the scene mode of a mobile phone), and then the user can enable and switch with one key, without setting parameters one by one.



>> Temperature Filed

Realize stepped temperature field, gradually adjust the temperature area, prevent sudden cooling or heating, and stay away from air conditioning sickness.



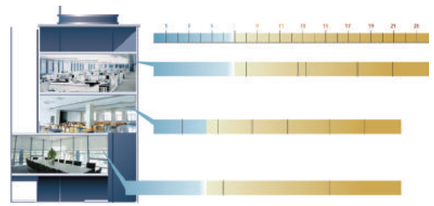
Smart Operation & Maintenance

>> VIP Exclusive Service

Independent VIP group professional customized service to avoid misoperation and provide a more comfortable environment for the VIP.

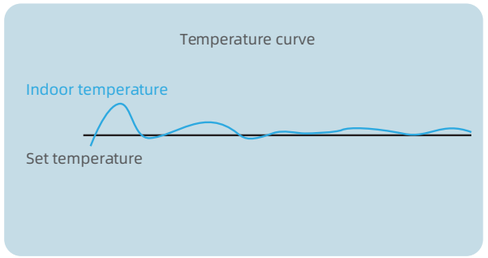
>> Schedule Management

Set schedules for different regions and different equipment, execute preset commands automatically, and reduce waste of time caused by repeated operations.



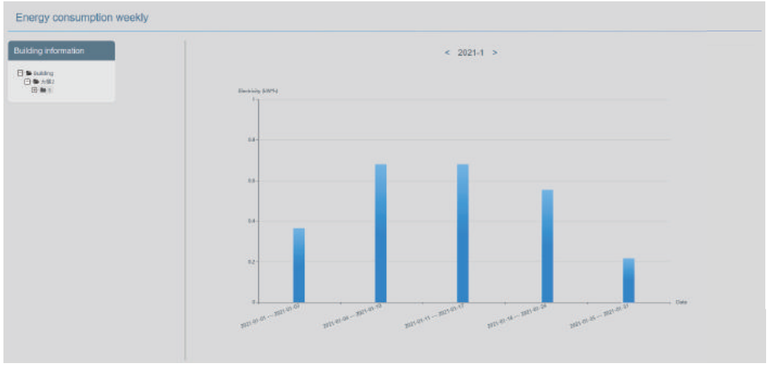
>> Green Assistantw

Perform statistical analysis on the operating time, set temperature, and indoor temperature, and acquire the actual running status of the equipment in time.



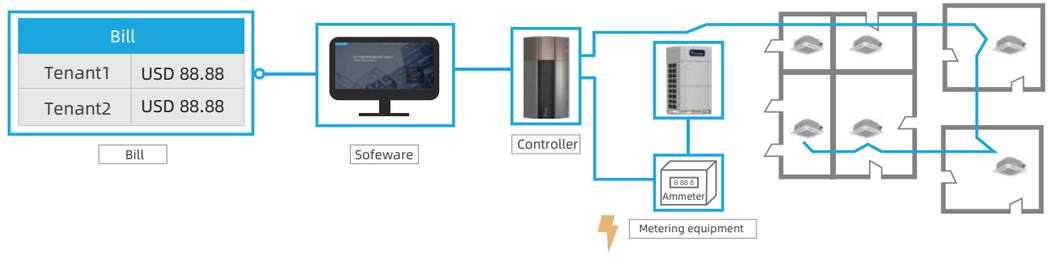
>> Weekly Energy Consumption Report

Electricity statistics are carried out on a weekly and monthly basis. The background color is used to reflect the electricity consumption, and the user can accurately control the power consumption of the unit.



>> Intelligent Billing

Intelligent Billing is a solution to power consumption calculation and billing specialized for VRF units. This system adopts our unique calculation method that makes the billing more reasonable. In design, it' s tailored to the features of engineering construction, making the installation less difficult. It can be widely applied in shopping centers, apartment blocks, villa clusters or other commercial or residential occasions in different sizes and for different purposes.



>> Billing Management

Properly distribute the electricity automatically according to ON/OFF time, mode, set temperature, indoor ambient temperature, outdoor ambient temperature etc.; provide detailed bill, operational details, etc.

>>Flexible Bill Export

Provide a variety of bill export modes to achieve free choices and convenient management of bill cycle, distribution mode and bill type.

Bill for Air Conditioner				
Room	601			
Time	2016/08/01-2016/08/31			
No.	Equipment	Operation/KWH	Standby/KWH	Subtotal
1	IDU 1	12.5	0.55	13.05
2	IDU 2	11.6	0.21	11.81
3	IDU 3	13.2	0.36	13.56
Total				38.42

Compatible to Different Electric Meters

No.	Manufacturer	Electric Meter Model	Country of Origin	Satisfactory Regions (Reference)
1	ENTES	EPR-04S-96	Turkey	Turkey, Middle East
2	WattNode	WNC-3D-240-MB	America	North America, Latin America
3	Siemens	PAC3200	Germany	Russia, Europe, Asia Pacific
4	Schneider	iEM3255	France	Australia, Europe
5	Wasion	DTS343	China	China

Building Protocal Gateway

Name	Model	Key ParametersA	pplication	Photo
VRF Protocol Gateway	ME30-24/D1(BM)	Capacity: 255 sets of indoor unit (within 16 systems) Protocol: Modbus RTU°¢ Modbus TCP	It is generally used in large buildings such as office buildings, commercial streets, hospitals, and rail transits to connect to BAS to achieve centralized management of air conditioner.	
Modbus Gateway £®Mini£Š	ME30-24/E6(M)	Capacity: 128 sets of indoor units (within 16 systems) Expansion port: No Protocol: Modbus RTU	It is generally used for small and medium-sized projects such as villas and apartment buildings. It is used for docking with BAS systems or smart home systems. Since there is no I/O interface, the capacity is small, and it is a low-cost solution.	
H2M Gateway	ME31-33/EH1(M)	Capacity: 1-16 sets of indoor units Expansion port: No Protocol: Modbus RTU	Generally, it is an intelligent solution for hotel and household environment. The indoor unit directly connects to the controller of the hotel room RCU or the residential smart home system.	

BACnet Gateway

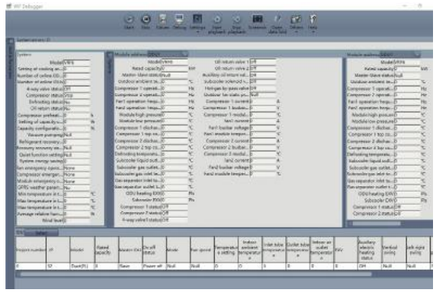
BACnet features high communication efficiency, flexible protocol and convenient debugging.
Our BACnet gateway can realize the conversion of multi VRF unit's CAN protocol data into BACnet protocol data, as a bridge for data exchange between air conditioner and BAS.

Name	Model	Key ParametersA	pplication	Photo
VRF Protocol Gateway	ME30-24/D1(BM)	Capacity: 255 sets of indoor unit Protocol: BACnet	Mainly used in the docking of medium and large building automatic control projects.	

Intelligent Debugging Software

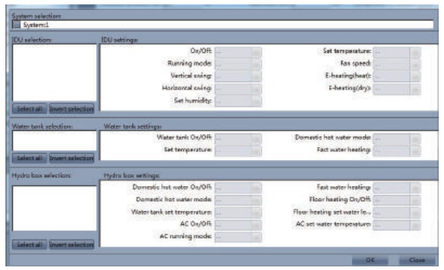
● Monitoring Functions

>> Fully control the operation status of each device of the system;
>> Hover the mouse over the parameter to display its remarks.
>> The online devices will be displayed in a tree structure;
>> Display the information of air conditioner in divided regions;
>> Each display region can be moved or concealed;
>> Display updated status of units in real time.



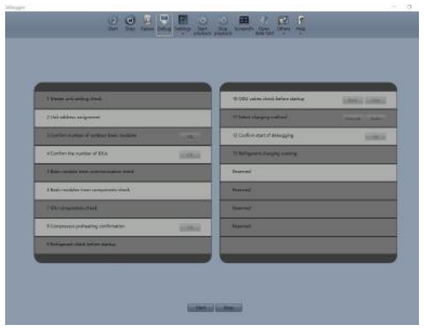
● Control Functions

>> Control the operation of unit as you like;
>> Comprehensive control of outdoor unit, indoor unit, water tank, hydro box, etc.;
>> Real-time display of current status or status after being controlled;
>> Both single control and group control are available.



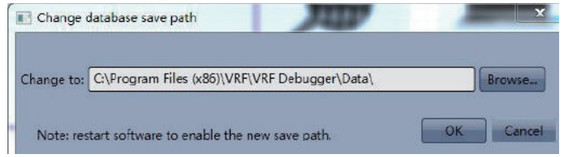
● Project Debugging Functions

>> One-click and automatic project debugging;
>> Project debugging is arranged step by step from left to right;
>> Manual intervention and skipping of some debugging phases are available.
>> Green icons will be displayed for the items finishing debugging; red icons will be displayed for the items having debugging errors; light yellow icons display debugging information.

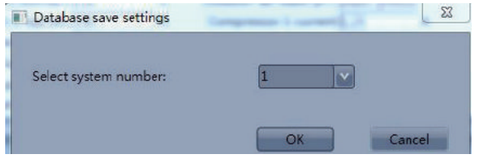


● Auto Data Saving Function

>> Data will be saved automatically. Database saving path can be changed or data document can be generated repeatedly.



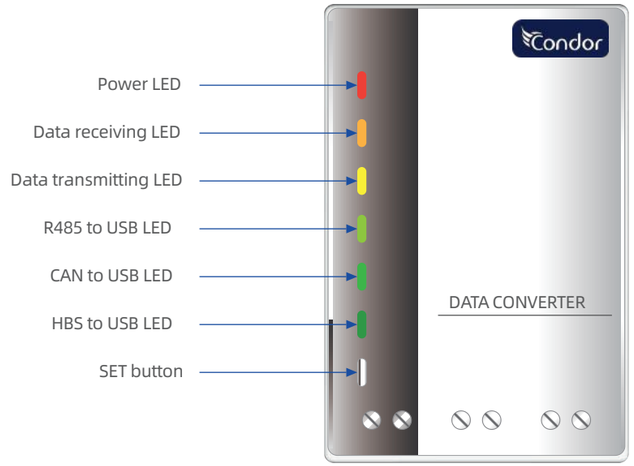
Step 1£ºChange Database Saving Path



Step 2:D atabase Save Setting

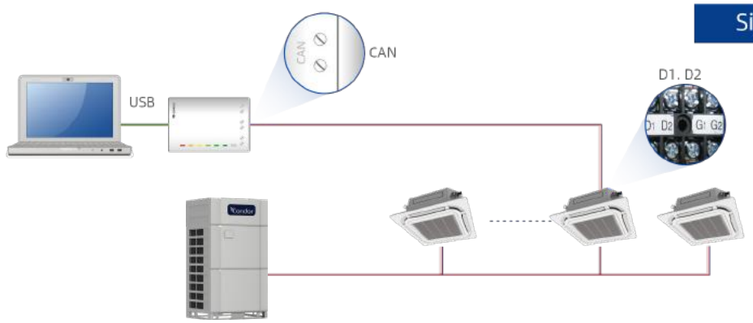
● USB Data Converter

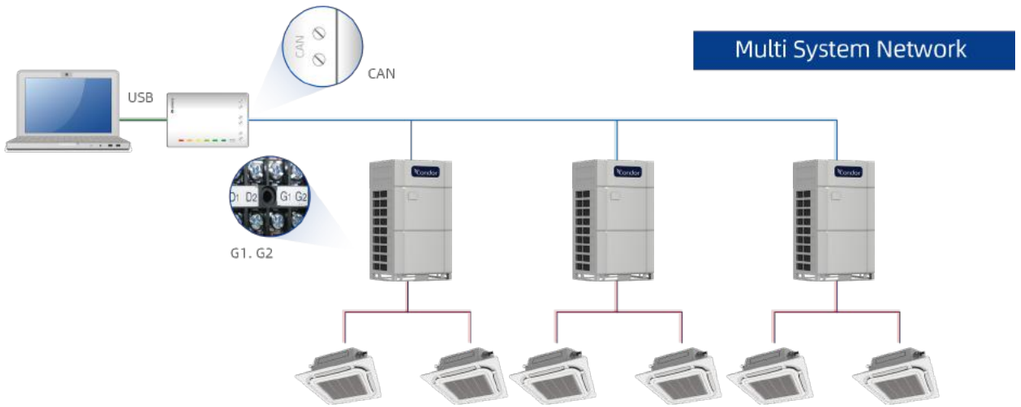
>> Users can use USB data converter to freely convert CAN/HBS/RS485 data into USB data, achieving data interchange between computer and air conditioner.



● Auto Direction of Connection Way

>> The wiring diagram will direct connection way automatically, so that the user can get the connection way quickly.

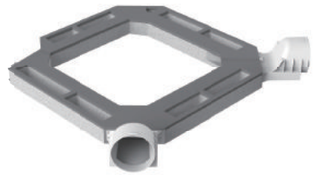




VRF Accessories

Fresh Air Intake Kit

- It can effectively bring in 8%~10% fresh outdoor air.
- All-foam design, light and durable, used with 360° air discharge cassette type indoor unit, simple and convenient to install; double air inlets, using pressure difference principle, can automatically introduce fresh air without a motor, improving indoor unit air quality.



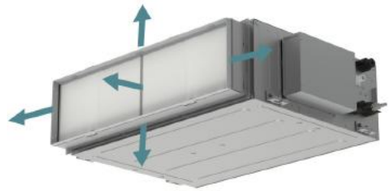
Model			XF150A-T
Fresh air intake volume%			10
Dimension (W×D×H)	Outline	mm	834×834×60
	Package	mm	873×873×180
Dimension of the connection		mm	150
		Pcs	2
Net weight/Gross weight		kg	2.7/7.7

Note: This unit should be used with 360 Air Discharge Cassette Indoor Unit.

High-efficiency Filter

- The high-efficiency filter can effectively remove PM2.5. One pass purification efficiency≥90%
- Small air resistance and less volume attenuation.
- With 5 disassembly directions for convenient replacement and installation.

Filter model	Applicable for the following high static pressure duct typel DU
FKH01A(H)- T	GMV-ND22～50PHS/B-T GMV-ND22～50PHS/D-T
FKH02A(H)- T	GMV-ND56～80PHS/B-T GMV-ND56～80PHS/D-T
FKH03A(H)- T	GMV-ND90～180PHS/B-T GMV-ND90～180PHS/D-T



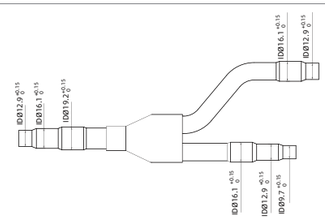
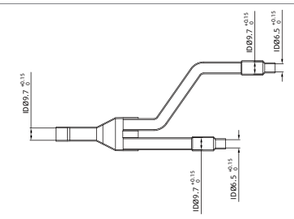
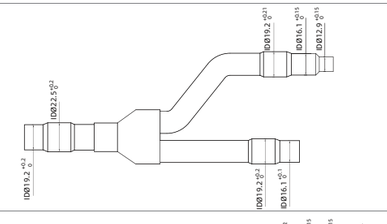
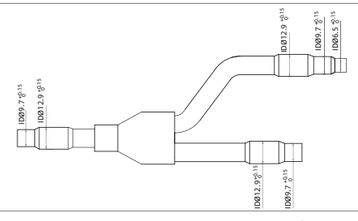
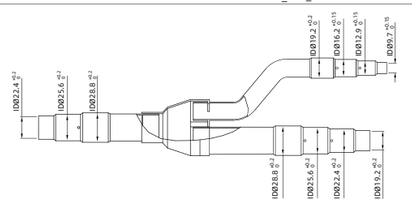
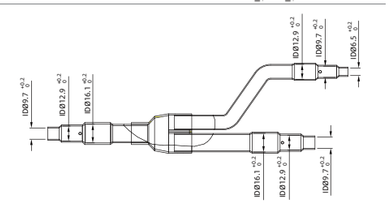
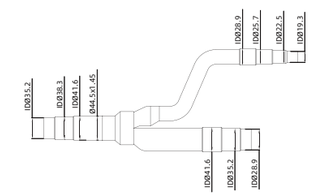
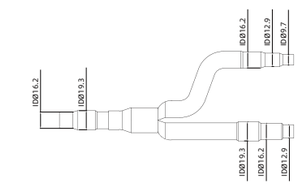
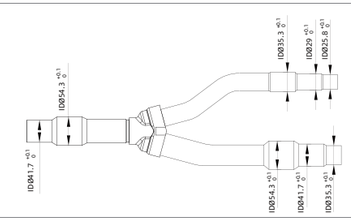
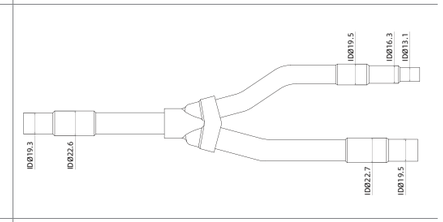
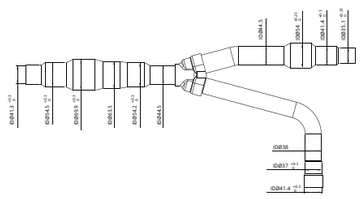
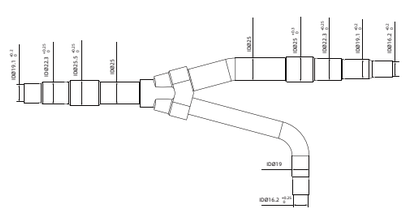
Outdoor Unit Protective Kit Against Snowstorm and Hail

In order to improve the adaptability of the unit in different environments, and ensure normal operation under harsh weather conditions like high winds, snowstorm and hail, the unit can be equipped with the following protective kit, including the air guide assembly at the top and the condenser protective assembly. Models for selection are:

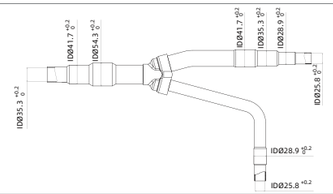
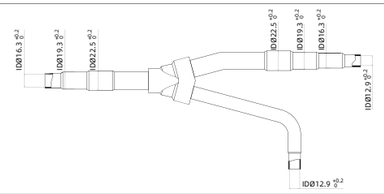
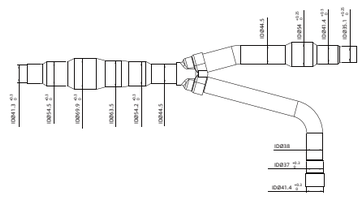
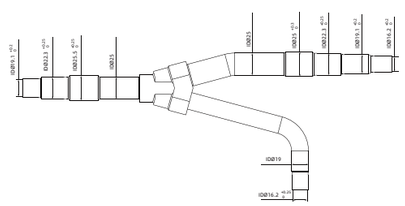
ModelC	F898	CF899
Number of parts4		5
Applicable model	GMV-224~335WM/ ** GMV-VQ224~335WM/ **	GMV-400~680WM/ ** GMV-VQ400~615WM/ **

Note: The protective kit will affect the unit's performance to some extent depending on the environment. The actual performance of the unit after installation may vary.

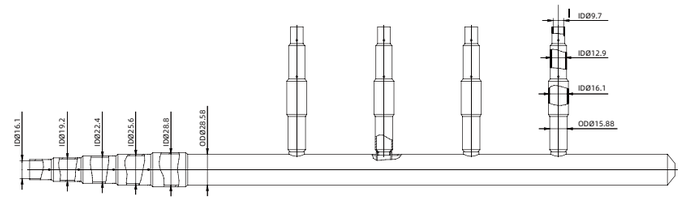
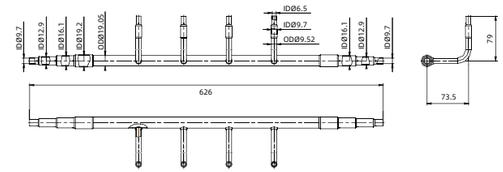
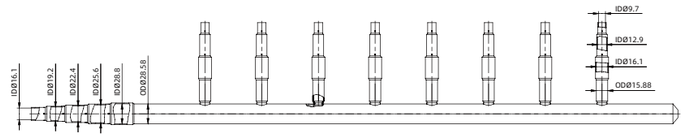
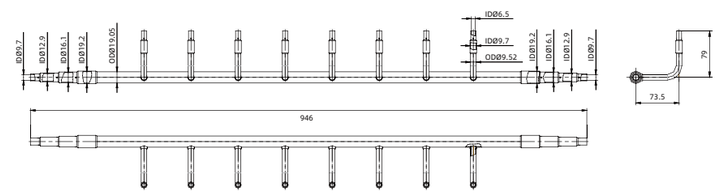
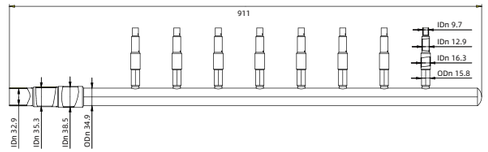
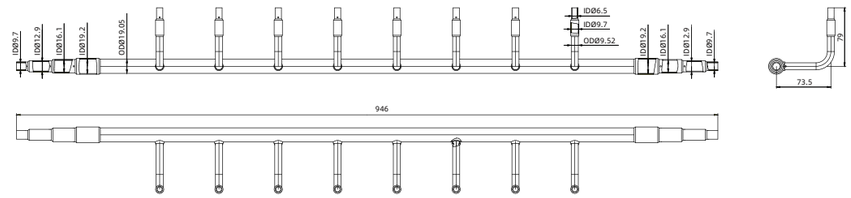
Branching Joint, Refnets (For GMV6 and GMV X units)

For Indoor & Outdoor Units			
Model	Total capacity X(kW)	Appearance	
		Gas pipe	Liquid pipe
FQ01A/A	X £°20		
FQ01B/A	20 X 30		
FQ02/A	30 £°X 70		
FQ03/A	70<X 136		
FQ04/A	136£°X 272		
FQ05/A	X £ž272		

For Outdoor Units

Model	Appearance	
	Gas pipe	Liquid pipe
ML01/A		
ML02/A		

For Indoor Units

Model	Sort	blueprint
FQ14/H1	Gas pipe	
	Liquid pipe	
FQ18/H1	Gas pipe	
	Liquid pipe	
FQ18/H2	Gas pipe	
	Liquid pipe	

Total rated capacity of downstream indoor units X(kW)	Gas pipe(mm)	Liquid pipe(mm)	Model of manifold pipe
X 40.0	≤Φ25.4	≤Φ12.7	FQ14/H1
X 68.0	≤Φ28.6	≤Φ15.9	FQ18/H1
68.0£ºX	≥Φ31.8	≥Φ19.05	FQ18/H2