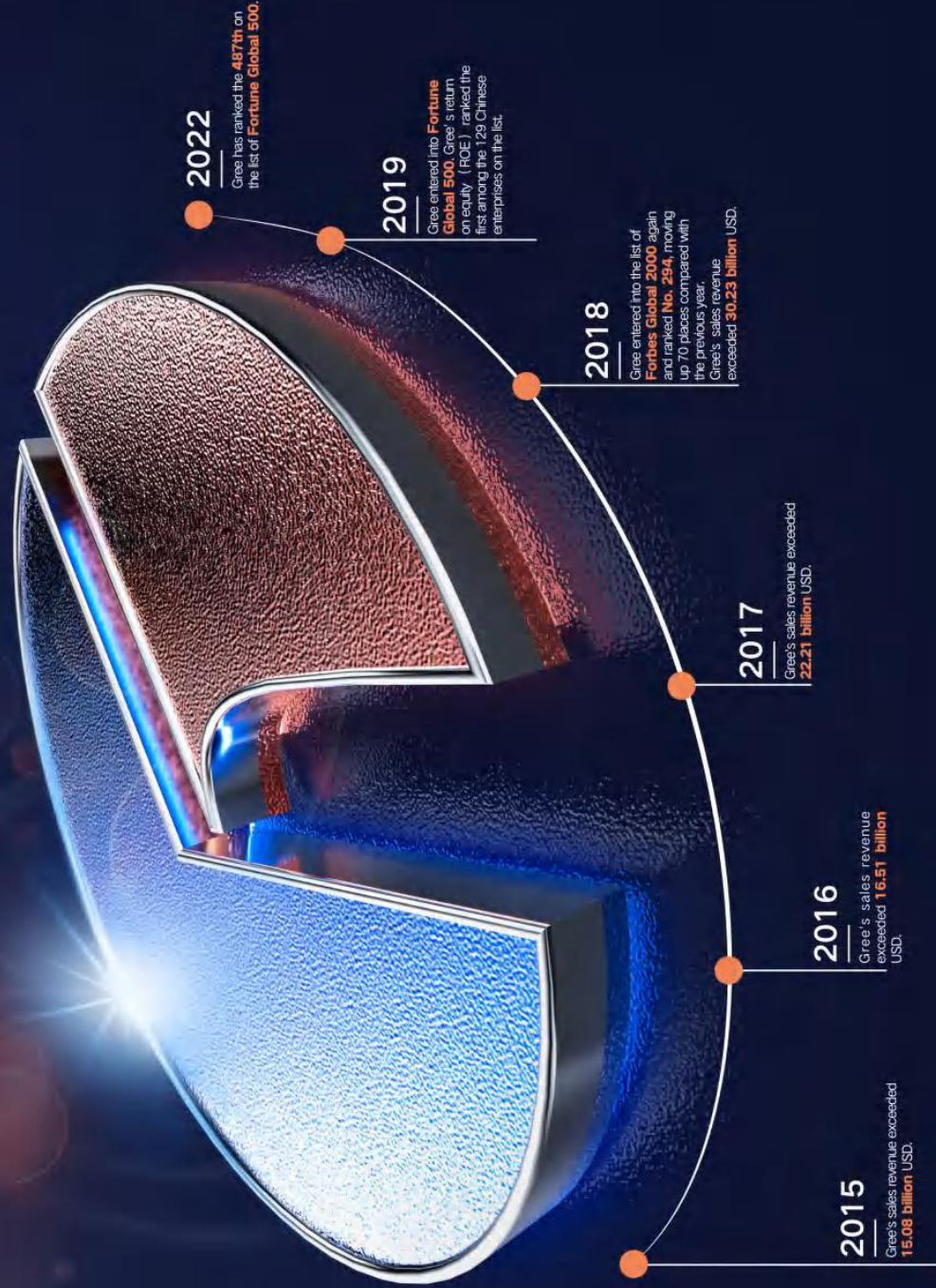


# ABOUT GREE

Gree Electric Appliances, Inc. of Zhuhai was founded in 1991 and was listed on the Shenzhen Stock Exchange in November 1996. At the beginning, Gree was only a company that assembled residential air conditioners. Now it has grown into a diversified global technological industrial group that has expanded its business to air conditioners, home appliances, high-end equipment and communication equipment under three brand names: GREE, KINGHOME and TOSOT. Gree was the number one brand of air conditioners in the world in 2021\*.

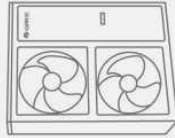
Thanks to 500 million users' choices, Gree brands are sold widely to more than 180 countries and regions. Action makes the future, and innovation makes achievement. Looking forward, Gree will press ahead with its business philosophy of passion, innovation and realization. We aim to build a centenary air conditioning enterprise and create a better life for humankind.



# 35 LEADING TECHNOLOGIES

**2005**

Ultra-low temperature digital VRF



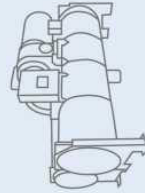
**2011**

1Hz low-frequency control technology



**2009**

High-efficiency centrifugal chiller



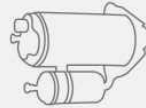
**2011**

R290 environment-friendly air conditioner

**R290**  
New Refrigerant

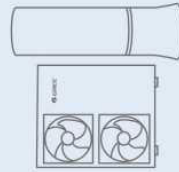
**2010**

Super-high efficiency fixed-speed compressor



**2011**

Multi-functional floor heating type central air conditioner



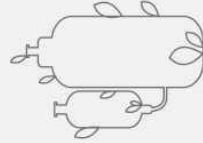
**2010**

The development of air conditioners using G-Matrix low-frequency control technology



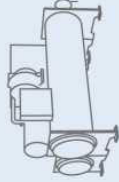
**2011**

Rare earth free magnetic resistance inverter compressor



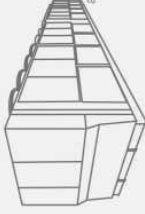
**2016**

High-efficiency permanent-magnet synchronous inverter centrifugal ice-storage chiller



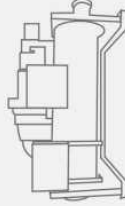
**2016**

Cooling technology at ambient temperature of -40 °C



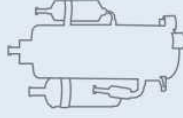
**2014**

Magnetic suspension inverter centrifugal cooling compressor and chiller



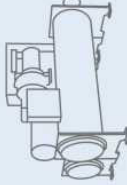
**2016**

Triple-cylinder two-stage rotary compressor of variable volume ratio



**2013**

PV direct-driven inverter centrifugal chiller



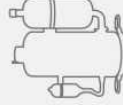
**2017**

Distributed air supply technology in heat pump air conditioners



**2012**

2-stage inverter compressor



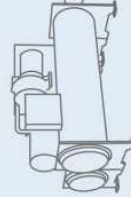
**2017**

CAN+ communication technology for multi VRF

**CAN+**

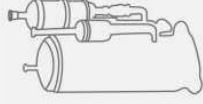
**2011**

Permanent-magnet synchronous inverter centrifugal chiller



**2017**

High-efficiency household multi VRF based on different volume switching compressor technology



# 35 LEADING TECHNOLOGIES

**2019**  
High performance straight line servo motor and driver



**2020**  
The air-cooled screw chiller for nuclear power plants with efficient operation at various loads ranging from 0 to 100% in wide conditions



**2018**  
Cableless-communication VRF system based on G-PLC

**G-PLC**



**2021**  
High efficiency catalytic aldehyde removal technology at room temperature and its application in air purifiers



**2019**  
Rare earth free magnetic resistance master drive motor system for new energy vehicles



**2021**  
Air source heat pump continuous heating efficient hot gas defrosting technology



**2020**  
Research and application of key technologies of high energy efficiency air conditioning system for scientific educational environment



**2021**  
Research and application of key technologies of high safety and large energy storage systems



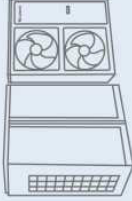
**2020**  
The water-cooled screw chiller for nuclear power plants with efficient operation at various loads ranging from 0 to 100% in wide conditions



**2021**  
Research and application of key technologies of home appliances



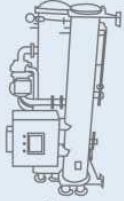
**2018**  
Photovoltaic energy storage direct-current technology for air conditioning unit



**2018**  
Performance indicators such as power density and overload capacity of servo motor for industrial robots



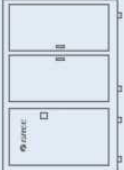
**2019**  
High-efficiency magnetic resistance inverter scroll compressor



**2019**  
High-efficiency dynamic pressure air bearing centrifugal compressor key technologies and applications.



**2017**  
NSJ series vehicle urea intelligent machine



**2018**  
High-efficiency self-adaptive screw compressor under all working conditions



**2018**  
High-efficiency direct-cooling air conditioning unit for subway stations



# COMPANY AWARDS AND CERTIFICATES

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**163**  
Intelligent Control



# Development History

## Development History of Multi VRF Air Conditioner (Heat Pump)

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 friendliness.

operating temperature can be up to 55°C, more suitable to high humidity, high dryness, high altitude and

## Development History of Multi VRF Air Conditioner (Heat Recovery)

Year	Product	Features
May 2006	The first generation heat recovery digital multi VRF air conditioner	Comfortable indoor cooling and heating, digital multi VRF heat recovery technology with independent intellectual property rights, and the five major operating modes can be switched freely, which further promoted energy-saving and environmental protection technologies for commercial air conditioners.
Nov. 2009	The second generation heat recovery multi VRF modular unit	Modular design concept, with DC inverter technology and sectional heat exchanger design, heat recovery energy efficiency improved by 30%, reaching the industrial leading level.
Dec. 2014	The third generation heat recovery multi VRF air conditioner (GMV5 HR)	Upgraded comfort and energy efficiency, heat recovery energy efficiency can be up to 8.0.
Dec. 2019	The fourth generation heat recovery multi VRF air conditioner (GMV6 HR)	Heat recovery energy efficiency can be up to 9.0, integrated with multiple functions such as cooling, heating, water heating, floor heating.

Oct. 2018

GMV6 multi VRF unit

Brand new system design, operating temperature can be up to 55°C, more suitable to high humidity, high dryness, high altitude and foreland environment.

## Technical Support

### VRF Selector

Selection software is an essential tool for the sales of VRF system in overseas market. Gree has provided a smart, rapid and diversified selection software for customers in order to respond the urgent demand for export sales, meet the diversified needs of export market and enhance the competitiveness of Gree products in overseas market.

The software can find the suitable unit and piping through automatic calculation to get the most optimal scheme by combining the factors, such as the ambient temperature, operation site, reliability and comfort, etc. It has greatly improved the efficiency of software modeling by visual modeling and intelligent fast wiring.



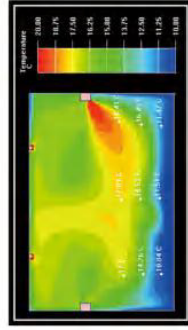
### Simulation

Based on CFD-Fluent, Gree provides wind field/temperature filed simulation computing service for overseas customers. This technology is used to simulate and calculate complex flows that are incompressible to a highly compressible range. CFD-Fluent is based on the finite-volume algorithm of unstructured grids, and it has the gradient algorithm of grid nodes and grid cells at the same time.

Gree can provide customers with professional wind field/temperature filed simulation computing services because it has rich research experience in transition and turbulence, heat transfer and phase transition, chemical reaction and combustion, multiple flow, noise, etc.



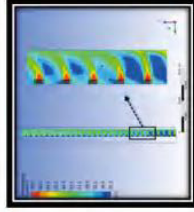
Simulated plane room temperature field distribution in a project



Simulated 3D room temperature field distribution in a project



Airflow simulation diagram



Building airflow simulation

### BIM

Gree Overseas Technical Support Center provides building information modeling technical support in HVAC design for overseas projects and customers, and it is called BIM-revit for short.

At present, this Center has begun to take shape in the research of 3D modeling of HVAC system, unit data information, HVAC system informatization, electromechanical system informatization and system simulation operation in BIM-revit. It can provide a full range of technical support services for the owners on the aspect of visualization, refine and rationalization of HVAC system, production efficiency and cost-saving.

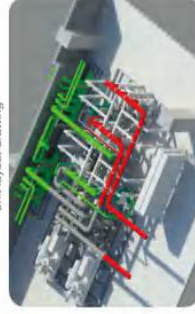
BIM model diagram



Outdoor unit rendering



Unit layout drawing



Installation effect diagram



### Global Technology Service

GTS (Global Technology Service) is a technical support and service platform for overseas global customers. Customers can log in the system at any time to check or download corresponding materials, such as related materials for Gree commercial products, electronic catalogues and selection software. Customers can log in the system and submit project information to get technical support services.

Check and download interface for product materials:



Check and download interface for product catalogues:



GTS system website: <http://gts.gree.com>

## 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.







# GMV X Outdoor Unit Lineup

Series	Certification												Appearance															
GMV X (Heat pump) (380-415V 3N-50/60Hz)	CB																											
														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

### GMV X (Heat pump) :

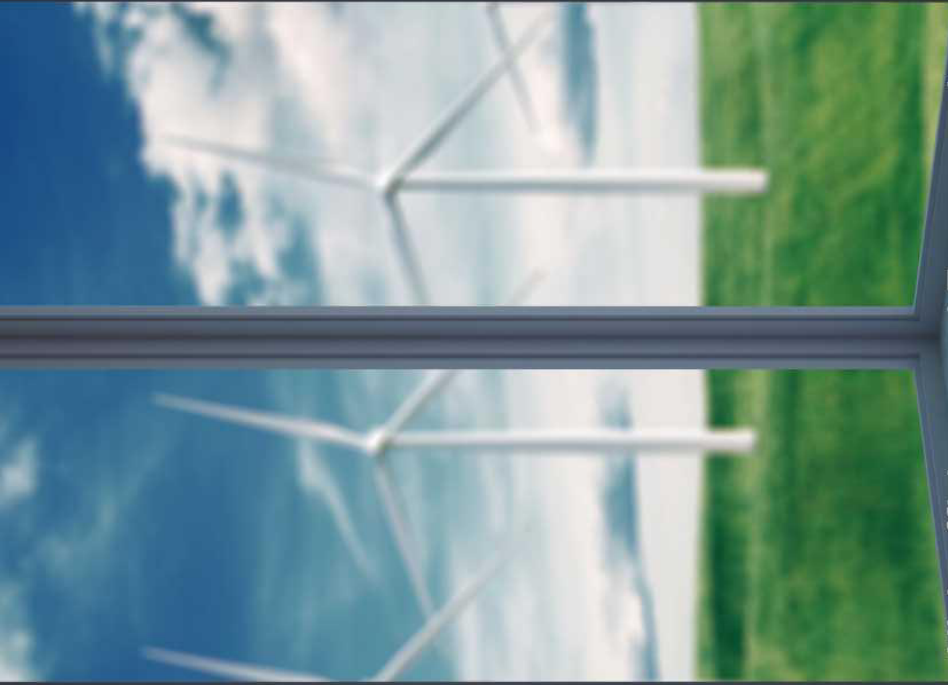
- 1.Large capacity, maximum 36HP for a single unit and 128HP for combination units.
- 2.Adopt high-efficiency low-temperature enthalpy adding technology and new type compressor with big capacity.
- 3.Large high-efficiency G-shape heat exchanger.
- 4.Maximum subcooling degree is up to 35°C .
- 5.Wide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

Series	Certification												Appearance															
GMV X (Cooling only) (380-415V 3N-50/60Hz)	CB																											
														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

### GMV X (Cooling only) :

- 1.Large capacity; max. 36HP for a single unit and 128HP for combination units.
- 2.Adopt brand new high-efficiency DC scroll compressor.
- 3.Adopt integrated G-shape heat exchanger; a heat exchanger is up to 4.2m.
- 4.Self-balancing control without oil balance pipe.
- 5.Maximum static pressure of outdoor unit is 82Pa.



# 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

GW6 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.



## 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.



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.

## Corrosion Prevention

- 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<sup>2</sup>.
- 7** Outer sealing material of the coil adopts stainless steel and electrophoresis<sup>2</sup>.
- 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.

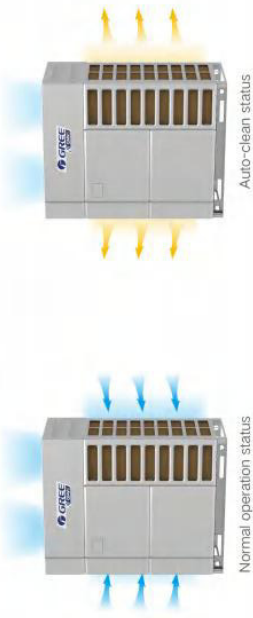


## Corrosion Prevention

## 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.



\*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.



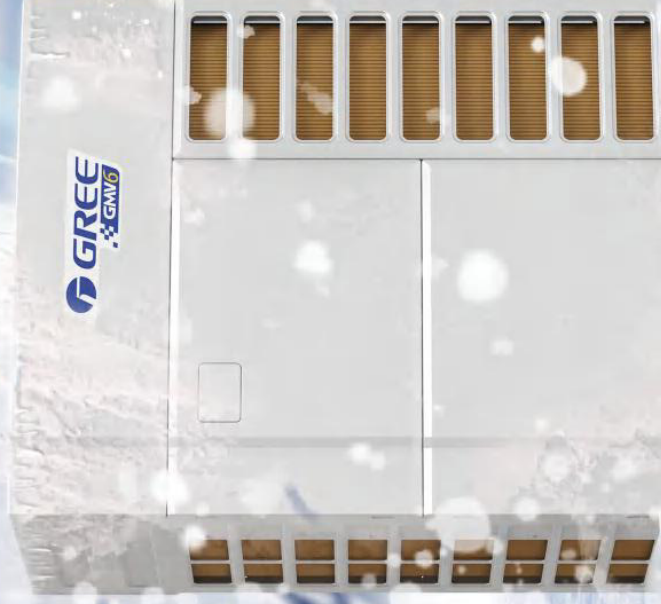
### Lightning Prevention Function

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.

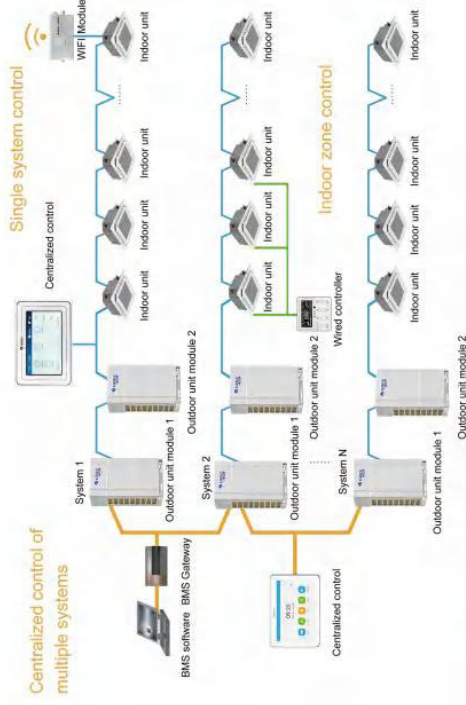


# CAN+ Communication Technology



## 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



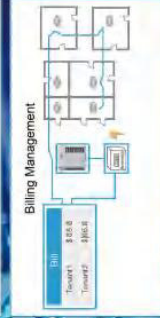
Centralized Controller



One Intelligent Remote Eudemon



Centralized Control



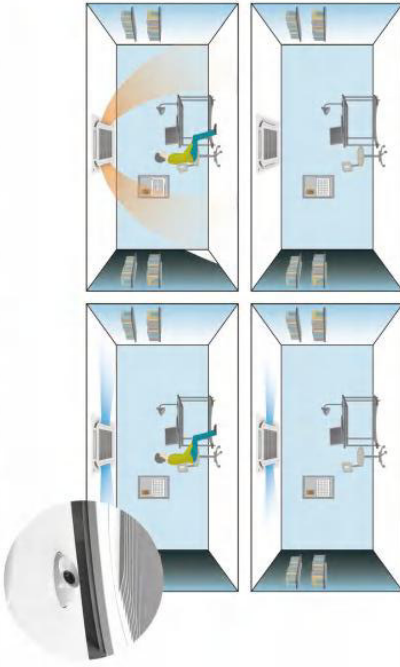
Billing Management



## Intelligent Control and Management

### Intelligent Sensing Function

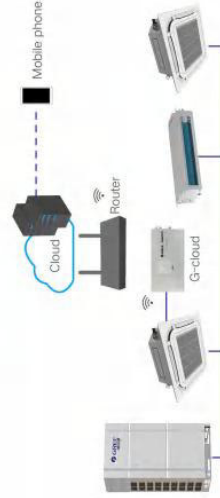
Intelligent sensing function control, 360° panoramic temperature field identification; high precision of temperature field identification, achieving cold air prevention, warm air surrounding; multiple intelligent control, more well-proportioned temperature field, more energy-saving operation.



\*This function should be customized.

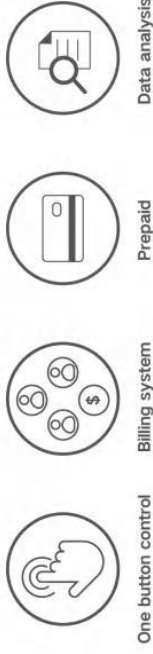
### Cloud Control

G-cloud is a compact WiFi controller, which connects G-cloud to the corresponding interface of any one of the multi VRF indoor units. Use mobile phone to download the "Gree+" 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 G-cloud to realize the control of all indoor units under the system via mobile phone.



One G-cloud can control up to 60 sets of indoor units within one system

### Intelligent Management



One button control

Billing system

Prepaid

Data analysis

### Centralized Control: Centralized Control of Building Terminal

One button control, unified management of air conditioners for a building; Gree centralized controller can achieve unified management of the air conditioners of a whole building via one button, which saves time and power.



### 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: Reasonable Distribution of Electricity Billing

Billing system, clear management: Gree billing system for multi VRF unit can calculate and distribute the electricity via unique calculation mode to reasonably allocate the energy consumption and electricity fee.



### Prepaid Automatic Withholding Mode

Prepaid automatic withholding mode is provided to satisfy the demands for lending of apartment and shops to prevent loss of lesser.

Export accountant bill, energy consumption report and energy-saving strategy push.

Data cloud backup, which can resume the engineering data and electricity data quickly.

## 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.



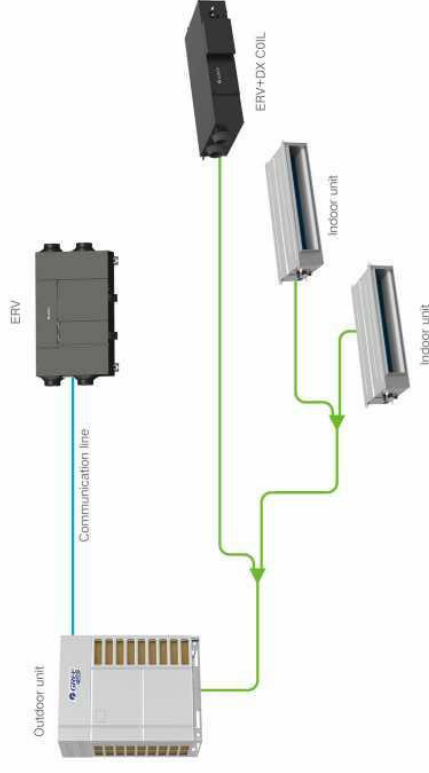
### Fresh Air Accessory

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



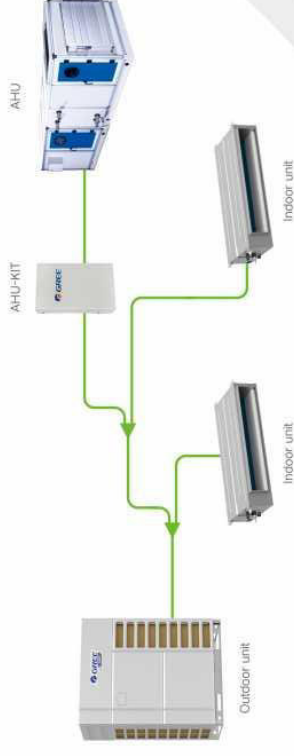
### ERV System

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

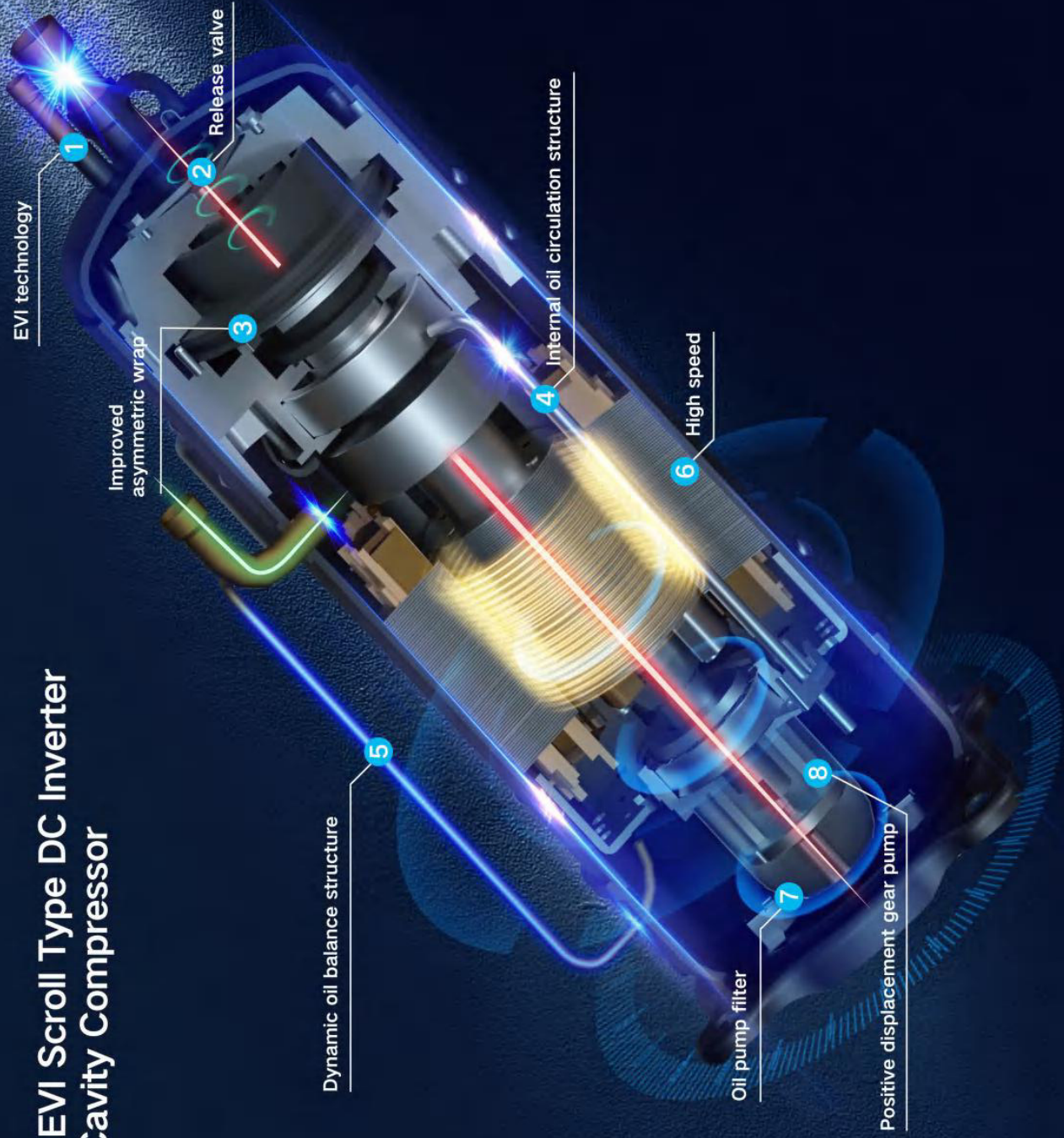


### Clean System

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.



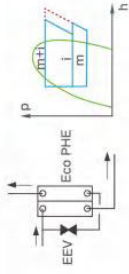
# High-efficiency EVI Scroll Type DC Inverter High-pressure Cavity Compressor



## High-efficiency Enthalpy Control Technology

### High-efficiency Enthalpy Compressor

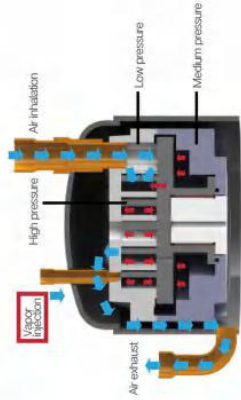
High-efficiency enthalpy compressor is developed according to the features of VRF unit, its 0-420Hz adjusting range can perfectly match with the whole unit, so as to excel the performance to the greatest extent.



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

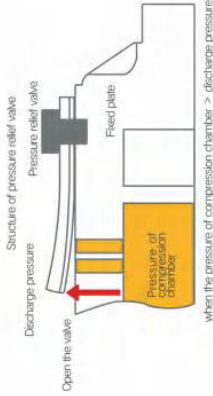
#### ① EVI Technology

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.

#### 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.

#### ⑦ Oil pump filter

Filtrate the impurities to ensure the supplied oil is clean.

#### 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.

#### ⑥ High speed

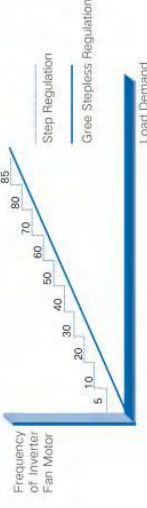
0-420Hz stepless inverter operation, wide adjustment range of capacity and precision can be up to 1Hz.

#### ⑧ Positive displacement gear pump

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

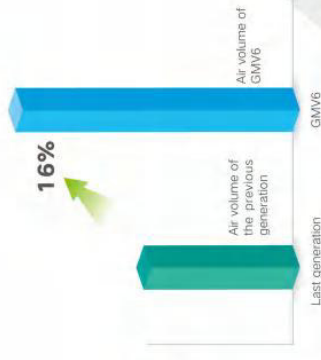
### Sensorless DC Inverter Fan Motor

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

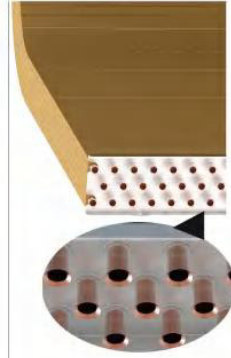


Molded at one time, the G shape integrated heat exchanger can improve space utilization and increase heat exchanger area and heat exchange efficiency.

\*Note: Applicable for some models.

### Multi-row Small Diameter Design

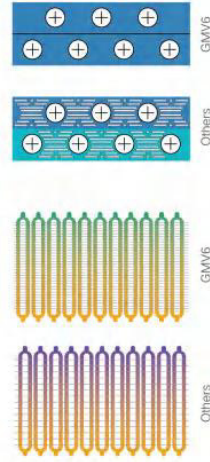
The refrigerant pipe adopts  $\phi 7\text{mm}$  and 3-row design, which can reduce the flowing resistance of refrigerant inside the pipe and effectively increase the heat exchange area of refrigerant, so as to optimize and improve the heat exchange efficiency.



\*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

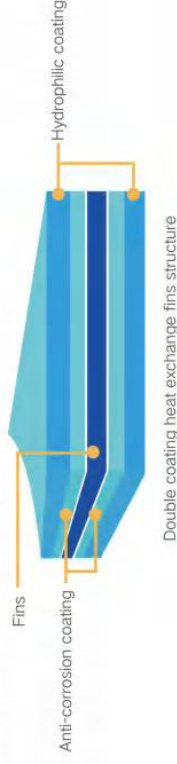
The refrigerant pipe adopts internal screw thread design to increase the contact area with the refrigerant, optimize the turbulent state of refrigerant flow and improve the heat exchange efficiency.



Internal screw thread high-efficiency heat exchange tube

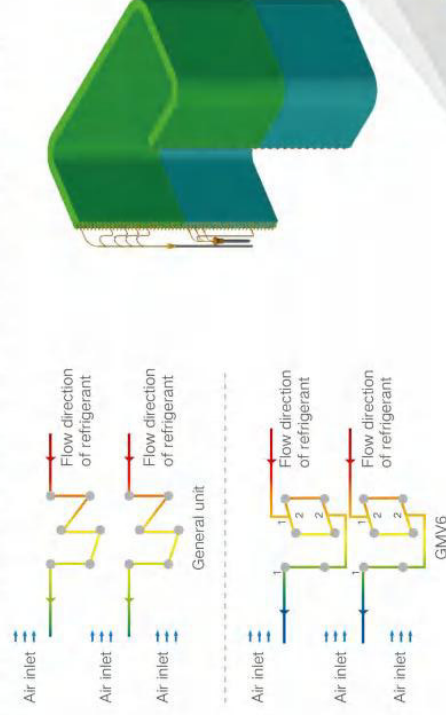
### Multi-functional Heat Exchanger Fins

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.



### 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

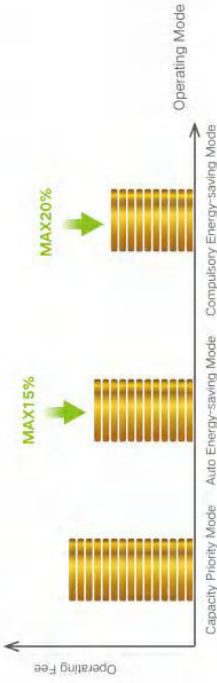
When the power supply is sufficient, it will satisfy the using capacity demand in priority. This mode is default mode.

### 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.



## 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.

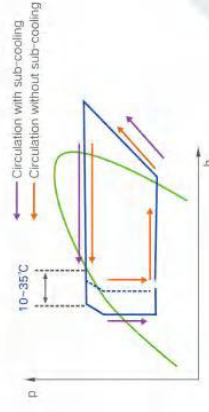


## Variable Sub-cooling Design

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°C, 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:

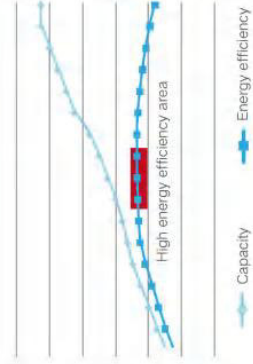
With fixed sub-cooling degree, output of the unit cannot adapt to changes in load. When the system conducts excessive sub-cooling, performance of the whole unit is reduced, degree of superheat for the exhaust of compressor is insufficient, and the reliability is reduced



## HPAC High-efficiency Alternate Control

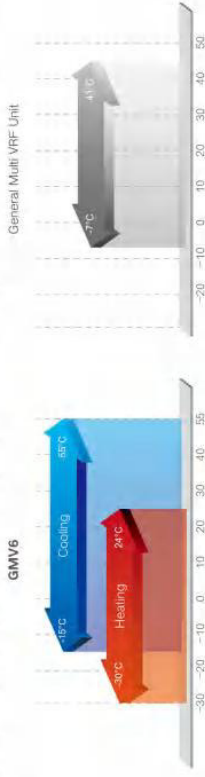
GMV6 adopts high-efficiency alternate control method to intelligently adjust the distributing method according to the demand of indoor load, which has ensured the service life of the integrated module, and improved the overall operating energy efficiency at the same time.

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.



## Wide Operation Range

-30°C~55°C 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°C.



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

## 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—FCT 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.



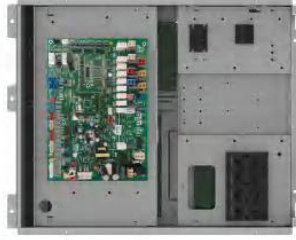
GMV5



GMV6

## Integrated High-efficiency Heat Dissipation Electric Controller

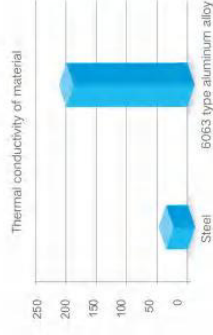
Main body of electric box is made of 6063T5 aluminum alloy material with high thermal conductivity (the heat dissipation capacity is 4.5 times that of conventional steel plates). The integrated structure design reduces the overall volume by 35%. Installation and maintenance are more convenient.



Other (sheet metal structure)

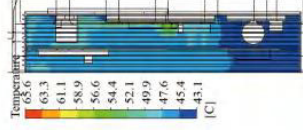


GMV6 (Aluminum alloy)



\*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°C, 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.

# 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.

1



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

3



**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.

5



**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%.

6



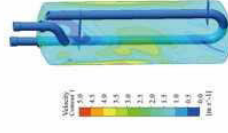
**② New Streamline Grill and Immersed Layout Air Duct**  
The general air duct system of unit goes down to form an immersed layout, which can effectively reduce the fan noise.

2



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

4



**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.

7

**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.

8



Sound absorption material



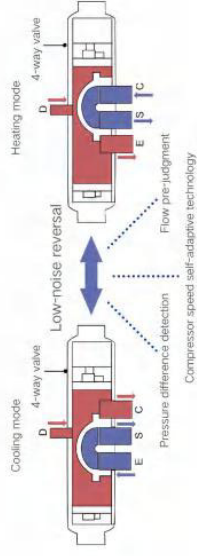
Metal sound insulation cover

\*Configuration of some models

## Low-noise Operating Technology

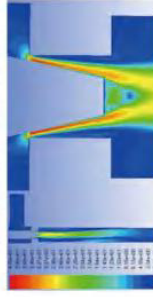
### Low-noise Reversing Control Technology

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.

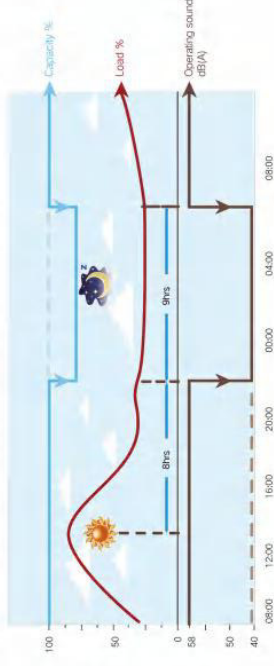


## Quiet Technology

### 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

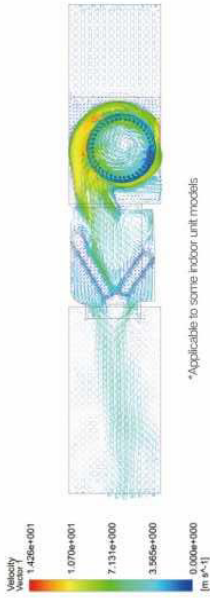
The unit can learn and customize user habits, and at the same time memorize the characteristics of user's habits. According to the user's using habit and actual load, it can automatically determine the output capacity of the system in the next 24 hours to achieve automatic quiet operation.



## Indoor Unit Quiet Technology

### Indoor Quiet Air Duct Design

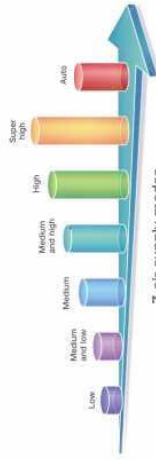
Heat exchanger of indoor unit adopts V-shape design for even and smooth air flow to create a quiet and comfortable environment.



\*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, and low, low) and auto fan speed for selection to satisfy different user demands.

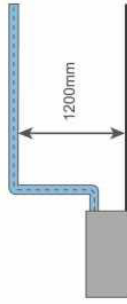


7 air supply modes

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).



# 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.



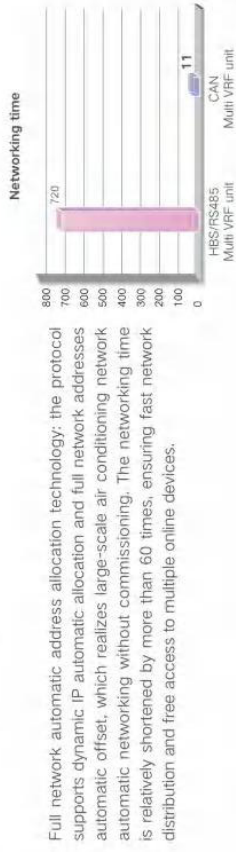
### Innovative Stratification CAN+ Structure with Multiple Master Networks



	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
	Error isolation	Automatic	No
Reliability of interaction	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.

#### Honors

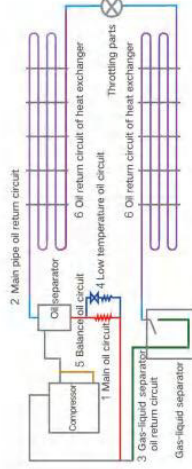
- In 2017, the project "Research and Application of CAN+ Communication Technology Based on Multi VRF Unit" was accredited by the Chinese Association of Refrigeration and reached the "international leading" level;
- In 2018, the project "Research and Application of CAN+ Communication Technology for Multi VRF Unit" won the Gold Medal at the 70th Nuremberg International Invention Exhibition in Germany.
- In 2018, the core patent of CAN+ communication technology "Multi VRF Air Conditioning System ZL201410312939.1" won the Siver Award of China Invention Patent.

## Precise Oil Control for Stable Operation of Compressor

### Oil Return Control Technology

#### Multiple Oil Circuits Management

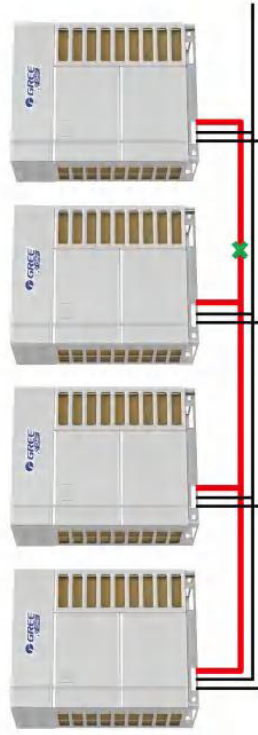
Six oil circuits ensure smooth and reliable oil passage.



\*The above data is the test value of our company

#### Self-balancing Control Without Oil Balancing Tube

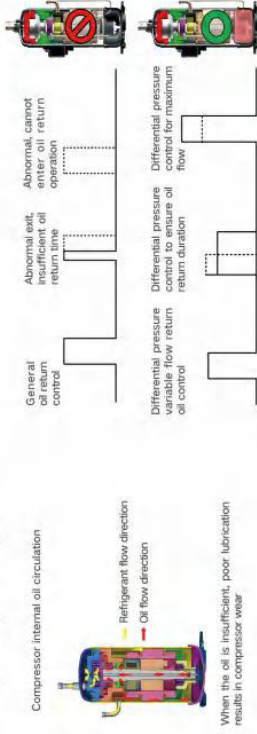
Advanced oil balancing control method, no external oil balancing pipeline is required between modules, and the installation is simple and fast. By collecting and calculating the capacity output and threshold conditions between each module, the distribution of refrigeration oil between the modules is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

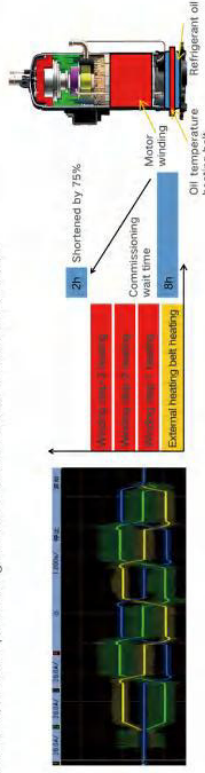
According to different operating conditions of the unit, on the premise of ensuring the reliability of the unit, the pressure difference control factor is introduced to conduct intelligent variable flow oil return operation according to the real-time operating parameters of the unit, to ensure the maximum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

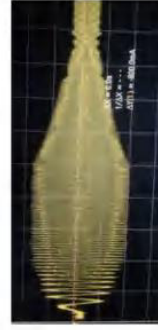
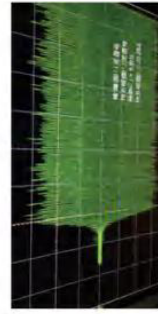
### Variable Carrier Frequency Control Technology

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.



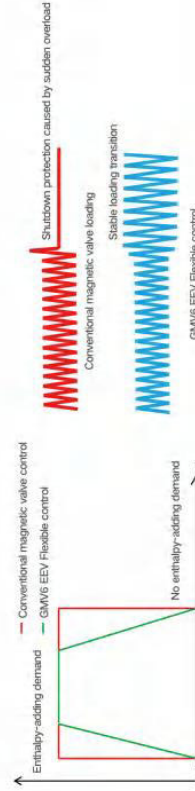
### Strong Torque Start Control

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.



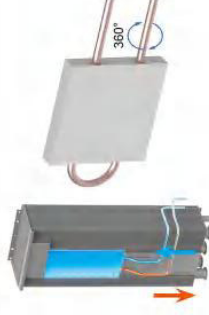
### Flexible Enthalpy Loading Control

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.



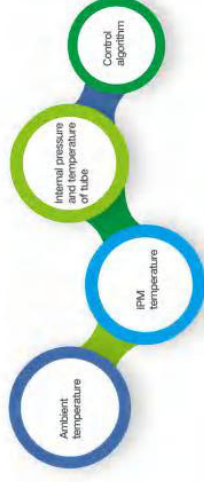
### Sub-cooling Module Cooling Technology

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°C, and reliability raised dramatically.



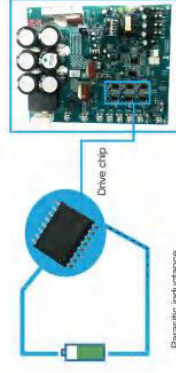
### Anti-condensation Control Algorithm for High Humidity Environment

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.

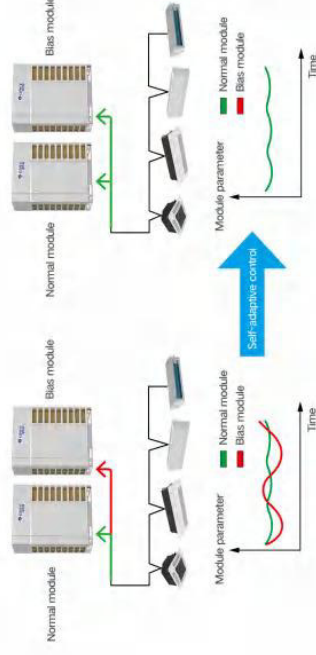


### Indoor Unit

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

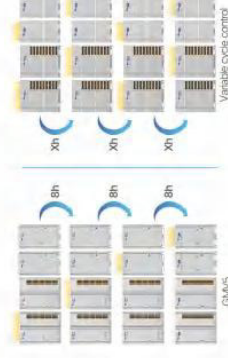
During the modular design of a project, the outdoor unit detects the parameters of each module, the system self-defines the bias current module, and memorizes the operating characteristics of the bias current module. Each module automatically adjusts the control methods and control thresholds of key 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.



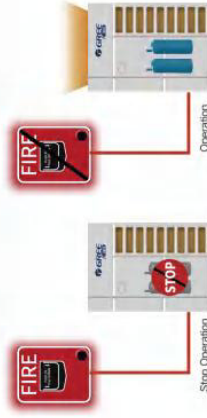
## Advanced Anti-liquid Impact Technology

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 malfunctioning.



### 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 malfunctioning.



### 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 malfunctioning.



\* Only for some temperature sensors.

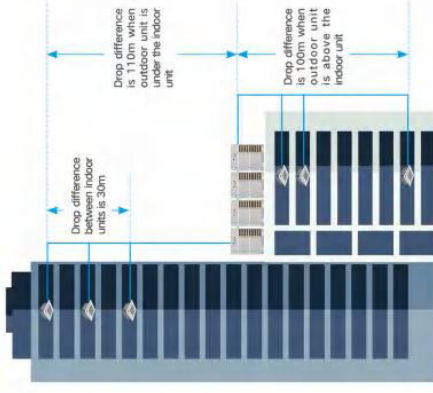
## Flexible Engineering Design

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.

## 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, automatic data storage (ADB), no external storage required.

## High Static Pressure Design

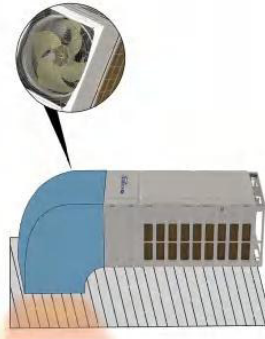
New diversion cover: Effectively coupled with fan blades, the flow field is more uniform.

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).



### 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



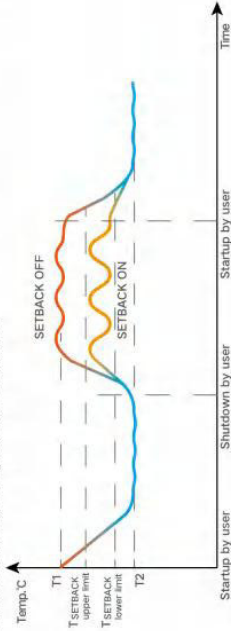
## New Generation Refrigerant Recovery Function

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.



## 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 XK179 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.



## 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.

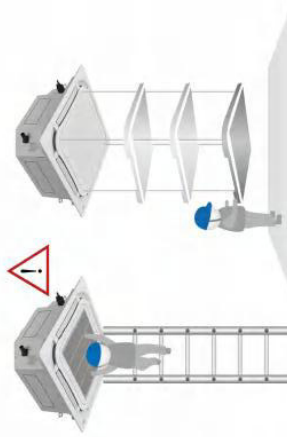
### Automatic Grille Lifting Technology

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.

## GMV6 Outdoor Units Specifications



# ODU Specifications

# ODU Specifications

## GMV6 ( 380-415V 3N~50/60Hz )



Model		GMV-224MM/HHT-X	GMV-280MM/HHT-X	GMV-355MM/HHT-X	GMV-400MM/HHT-X
Capacity range	HP	8	10	12	14
Cooling capacity	Rated *	22.4	28.4	33.5	40.0
	Max.	22.4	28.4	33.5	40.0
Heating capacity	Rated *	22.4	28.0	33.5	40.0
	Max.	25.0	31.5	37.5	45.0
SEER	Ducted *	7.10	6.59	6.31	6.68
	Cassette *	7.80	6.26	6.59	6.68
SCOP	Ducted *	4.62	4.80	4.40	4.44
	Cassette *	4.50	4.75	4.66	4.44
Power supply	V/Ph/Hz	380-415V 3N~50/60Hz			
Min. circuit/Max. fuse current	A	23.5/25	24.1/25	24.1/25	37.5/40
Maximum drive IDU NO.	unit	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
	dB(A)	80	84	86	80
Sound power level (cooling)	dB(A)	82	86	86	88
	dB(A)	86	86	86	88
Connecting pipe	mm	Φ19.05	Φ22.2	Φ25.4	Φ25.4
Gas	mm	Φ19.05	Φ22.2	Φ25.4	Φ25.4
Dimension(W×D×H)	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	240/250	240/250	300/315
Loading quantity	20' GP	12	12	12	10
	40' GP	28	28	28	22
40' HQ	unit	28	28	28	22
	unit	28	28	28	22

Model		GMV-224MM/HHT-X	GMV-280MM/HHT-X	GMV-355MM/HHT-X	GMV-400MM/HHT-X
Capacity range	HP	8	10	12	14
Cooling capacity	Rated *	22.4	28.4	33.5	40.0
	Max.	22.4	28.0	33.5	40.0
Heating capacity	Rated *	22.4	28.0	33.5	40.0
	Max.	25.0	31.5	37.5	45.0
SEER	Ducted *	7.10	6.59	6.31	6.68
	Cassette *	7.80	6.26	6.59	6.68
SCOP	Ducted *	4.62	4.80	4.40	4.44
	Cassette *	4.50	4.75	4.66	4.44
Power supply	V/Ph/Hz	380-415V 3N~50/60Hz			
Min. circuit/Max. fuse current	A	23.5/25	24.1/25	24.1/25	37.5/40
Maximum drive IDU NO.	unit	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
	dB(A)	80	84	86	80
Sound power level (cooling)	dB(A)	82	86	86	88
	dB(A)	86	86	86	88
Connecting pipe	mm	Φ19.05	Φ22.2	Φ25.4	Φ25.4
Gas	mm	Φ19.05	Φ22.2	Φ25.4	Φ25.4
Dimension(W×D×H)	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	240/250	240/250	300/315
Loading quantity	20' GP	12	12	12	10
	40' GP	28	28	28	22
40' HQ	unit	28	28	28	22
	unit	28	28	28	22

Model		GMV-450MM/HHT-X	GMV-504MM/HHT-X	GMV-560MM/HHT-X	GMV-615MM/HHT-X
Capacity range	HP	16	18	20	22
Cooling capacity	Rated *	45.0	50.4	52.0	52.0
	Max.	45.0	50.4	56.0	56.0
Heating capacity	Rated *	45.0	50.4	56.0	61.5
	Max.	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 supply	V/Ph/Hz	380-415V 3N~50/60Hz			
Min. circuit/Max. fuse current	A	33.3/40	47.0/50	48.0/50	48.0/50
Maximum drive IDU NO.	unit	26	29	33	36
Refrigerant charge volume	kg	7.5	8.3	8.3	8.3
Sound pressure level (cooling)	dB(A)	60	61	62	63
	dB(A)	93	93	93	93
Sound power level (cooling)	dB(A)	93	88	94	94
	dB(A)	93	88	94	94
Connecting pipe	mm	Φ12.7	Φ15.9	Φ15.9	Φ26.6
Gas	mm	Φ12.7	Φ15.9	Φ26.6	Φ26.6
Dimension(W×D×H)	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	300/315	350/365	350/365	350/370
Loading quantity	20' GP	10	10	10	10
	40' GP	22	22	22	22
40' HQ	unit	22	22	22	22
	unit	22	22	22	22

Model		GMV-450MM/HHT-X	GMV-504MM/HHT-X	GMV-560MM/HHT-X	GMV-615MM/HHT-X
Capacity range	HP	16	18	20	22
Cooling capacity	Rated *	45.0	50.4	52.0	52.0
	Max.	45.0	50.4	56.0	56.0
Heating capacity	Rated *	45.0	50.4	56.0	61.5
	Max.	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 supply	V/Ph/Hz	380-415V 3N~50/60Hz			
Min. circuit/Max. fuse current	A	33.3/40	47.0/50	48.0/50	48.0/50
Maximum drive IDU NO.	unit	26	29	33	36
Refrigerant charge volume	kg	7.5	8.3	8.3	8.3
Sound pressure level (cooling)	dB(A)	60	61	62	63
	dB(A)	93	93	93	93
Sound power level (cooling)	dB(A)	93	88	94	94
	dB(A)	93	88	94	94
Connecting pipe	mm	Φ12.7	Φ15.9	Φ15.9	Φ26.6
Gas	mm	Φ12.7	Φ15.9	Φ26.6	Φ26.6
Dimension(W×D×H)	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	300/315	350/365	350/365	350/370
Loading quantity	20' GP	10	10	10	10
	40' GP	22	22	22	22
40' HQ	unit	22	22	22	22
	unit	22	22	22	22

Note : The data is Eurovent certified.

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# ODU Specifications

# ODU Specifications



## GMV6 ( 380-415V 3N~50/60Hz )

Model	GMV-224MM/G-G-X	GMV-280MM/G-G-X	GMV-335MM/G-G-X	GMV-400MM/G-G-X	GMV-450MM/G-G-X
Capacity range	8	10	12	14	16
Capacity	HP 22.4 kW 25.0	HP 28.0 kW 31.5	HP 33.5 kW 37.5	HP 40.0 kW 45.0	HP 45.0 kW 50.0
EER	4.78	4.52	4.35	4.35	4.17
COP	5.50	5.34	4.81	4.74	4.67
Power supply	380-415V 3N~50/60Hz				
Max. circuit/Max. fuse current	23.0/25	23.5/25	24.1/25	32.5/40	33.5/40
Power consumption	4.69	6.20	7.70	9.20	10.80
Maximum drive IDU NO.	13	16	19	23	26
Refrigerant charge volume	5.5	5.5	5.7	7.0	7.5
Sound pressure level	56	57	59	59	60
Connecting pipe	φ9.52	φ9.52	φ12.7	φ12.7	φ12.7
Dimension (W×D×H)	930×775×1690	930×775×1690	930×775×1690	1340×775×1690	1340×775×1690
Net weight/Gross weight	1000×830×1855	1000×830×1855	1000×830×1855	1400×830×1855	1400×830×1855
Loading quantity	40 GP 28	28	28	22	22
	40 HQ 28	28	28	22	22



## GMV6 ( 280/230V 3~60Hz )

Model	GMV-224MM/G-G-F	GMV-280MM/G-G-F	GMV-335MM/G-G-F	GMV-400MM/G-G-F
Capacity range	8	10	12	14
Capacity	HP 22.4 kW 25.0	HP 28.0 kW 31.5	HP 33.5 kW 37.5	HP 40.0 kW 45.0
EER	5.11	5.25	4.70	4.65
COP	5.68	5.25	4.87	4.81
Power supply	280/230V 3~60Hz			
Max. circuit/Max. fuse current	29.9/35	38.8/40	43.6/50	50.3/60
Power consumption	4.27	5.48	7.13	8.60
Maximum drive IDU NO.	13	16	19	23
Refrigerant charge volume	5.5	5.5	5.7	7.0
Sound pressure level	58	59	61	61
Connecting pipe	φ9.52	φ9.52	φ12.7	φ12.7
Dimension (W×H×D)	930×775×1690	930×775×1690	930×775×1690	1340×775×1690
Net weight/Gross weight	1000×830×1855	1000×830×1855	1000×830×1855	1400×830×1855
Loading quantity	40 GP 28	28	28	22
	40 HQ 28	28	28	22



## GMV6 ( 380-415V 3N~50/60Hz )

Model	GMV-504MM/G-G-X	GMV-560MM/G-G-X	GMV-615MM/G-G-X	GMV-680MM/G-G-X
Capacity range	18	20	22	24
Capacity	HP 50.4 kW 56.5	HP 56.0 kW 63.0	HP 61.5 kW 68.0	HP 68.0 kW 76.5
EER	4.10	4.06	3.80	3.32
COP	4.38	4.34	4.08	3.81
Power supply	380-415V 3N~50/60Hz			
Max. circuit/Max. fuse current	47.0/50	48.0/50	49.0/50	49.0/50
Power consumption	12.30	13.80	16.20	20.10
Maximum drive IDU NO.	29	33	36	39
Refrigerant charge volume	8.0	8.0	8.3	8.3
Sound pressure level	61	62	63	64
Connecting pipe	φ15.9	φ15.9	φ15.9	φ15.9
Dimension (W×D×H)	1340×775×1690	1340×775×1690	1340×775×1690	1340×775×1690
Net weight/Gross weight	1400×830×1855	1400×830×1855	1400×830×1855	1400×830×1855
Loading quantity	40 GP 22	22	22	22
	40 HQ 22	22	22	22



## GMV6 ( 280/230V 3~60Hz )

Model	GMV-504MM/G-G-F	GMV-560MM/G-G-F	GMV-615MM/G-G-F	GMV-680MM/G-G-F
Capacity range	18	20	22	24
Capacity	HP 50.4 kW 56.5	HP 56.0 kW 63.0	HP 61.5 kW 68.0	HP 68.0 kW 76.5
EER	4.46	4.46	4.15	3.92
COP	4.46	4.15	4.08	3.92
Power supply	280/230V 3~60Hz			
Max. circuit/Max. fuse current	51.2/60	53.9/60	58.4/100	61.3/100
Power consumption	10.10	11.90	13.60	15.60
Maximum drive IDU NO.	26	29	33	36
Refrigerant charge volume	7.5	8.0	8.3	8.3
Sound pressure level	62	63	64	66
Connecting pipe	φ12.7	φ15.9	φ15.9	φ15.9
Dimension (W×H×D)	1340×775×1690	1340×775×1690	1340×775×1690	1340×775×1690
Net weight/Gross weight	1400×830×1855	1400×830×1855	1400×830×1855	1400×830×1855
Loading quantity	40 GP 22	22	22	22
	40 HQ 22	22	22	22

# ODU Combination Lineup

# ODU Combination Lineup



## GMV6 ( 440-460V 3~60Hz )

Model	GMV-224MM/H-X	GMV-280MM/H-X	GMV-335MM/H-X	GMV-400MM/H-X
Capacity range	8	10	12	14
Capacity				
Cooling	22.4	28.0	33.5	40.0
Heating	25.0	31.5	37.5	45.0
EER	kW/kW	5.11	4.70	4.65
COP	kW/kW	5.68	4.87	4.81
Power supply	V/PHz			
Max. circuit/Max. fuse current	440-460V, 3~60Hz			
A	19.6/25	20.0/25	21.0/30	23.9/30
Power consumption				
Cooling	4.27	5.48	7.13	8.60
Heating	4.40	6.00	7.70	9.36
Maximum dthw (DU NO.)	unit	16	19	23
Refrigerant charge volume	kg	5.5	5.7	7.0
Sound pressure level	dB(A)	59	61	61
Liquid	mm	ø9.52	ø12.7	ø12.7
Gas	mm	ø19.05	ø25.4	ø25.4
Dimension (W × H × D)	mm	930 × 775 × 1690		
Package	mm	1000 × 830 × 1855		
Net weight/Gross weight	kg	230/240		
40' GP	set	28	28	22
40' HQ	set	28	28	22

## GMV6 ( 380-415V 3N~50/60Hz )

HP	Model	GMV-224MM/H-X	GMV-280MM/H-X	GMV-335MM/H-X	GMV-400MM/H-X	GMV-450MM/H-X	GMV-504MM/H-X	GMV-560MM/H-X	GMV-615MM/H-X
6	GMV-224MM/H-X	●							
10	GMV-280MM/H-X		●						
12	GMV-335MM/H-X			●					
14	GMV-400MM/H-X				●				
16	GMV-450MM/H-X					●			
18	GMV-504MM/H-X						●		
20	GMV-560MM/H-X							●	
22	GMV-615MM/H-X								●
24	GMV-680MM/H-X		●						
26	GMV-730MM/H-X			●					
28	GMV-794MM/H-X					●			
30	GMV-840MM/H-X							●	
32	GMV-898MM/H-X								●
34	GMV-950MM/H-X			●					
36	GMV-1015MM/H-X				●				
38	GMV-1065MM/H-X					●			
40	GMV-1119MM/H-X							●	
42	GMV-1175MM/H-X								●
44	GMV-1230MM/H-X								●
46	GMV-1280MM/H-X		●						
48	GMV-1345MM/H-X			●					
50	GMV-1400MM/H-X				●				
52	GMV-1455MM/H-X							●	
54	GMV-1510MM/H-X								●
56	GMV-1565MM/H-X			●					●
58	GMV-1630MM/H-X						●		●
60	GMV-1680MM/H-X							●	●
62	GMV-1734MM/H-X								●
64	GMV-1790MM/H-X							●	●
66	GMV-1846MM/H-X								●
68	GMV-1905MM/H-X							●	●
70	GMV-1959MM/H-X								●
72	GMV-2015MM/H-X			●					●
74	GMV-2070MM/H-X							●	●
76	GMV-2125MM/H-X								●
78	GMV-2180MM/H-X								●
80	GMV-2245MM/H-X							●	●
82	GMV-2295MM/H-X								●
84	GMV-2349MM/H-X							●	●
86	GMV-2405MM/H-X								●
88	GMV-2460MM/H-X								●

Note: The combinations of anticorrosion models GMV-\*\*\*MM/HI-X are the same as above.

Model	GMV-450MM/G-U	GMV-504MM/G-U	GMV-560MM/G-U	GMV-615MM/G-U	GMV-680MM/G-U
Capacity range	16	18	20	22	24
Capacity					
Cooling	45.0	50.4	56.0	61.5	68.0
Heating	50.0	56.5	63.0	69.0	76.5
EER	kW/kW	4.46	4.24	4.15	3.89
COP	kW/kW	4.46	4.15	4.10	4.08
Power supply	V/PHz				
Max. circuit/Max. fuse current	440-460V, 3~60Hz				
A	24.2/30	25.0/30	26.2/40	28.0/40	30.9/45
Power consumption					
Cooling	11.90	13.60	15.35	16.90	19.40
Heating	11.20	13.60	15.35	16.90	19.50
Maximum dthw (DU NO.)	unit	29	33	36	39
Refrigerant charge volume	kg	7.5	8.0	8.0	8.3
Sound pressure level	dB(A)	62	63	64	65
Liquid	mm	ø12.7	ø15.9	ø15.9	ø15.9
Gas	mm	ø28.6	ø28.6	ø28.6	ø28.6
Dimension (W × H × D)	mm	1340 × 775 × 1690			
Package	mm	1400 × 830 × 1855			
Net weight/Gross weight	kg	265/310			
40' GP	set	22	22	22	22
40' HQ	set	22	22	22	22



# ODU Combination Lineup

# ODU Combination Lineup

## GMV6 ( 380-415V 3N~50/60Hz )

HP	Model	GMV-224MM/ G-X	GMV-280MM/ G-X	GMV-335MM/ G-X	GMV-400MM/ G-X	GMV-450MM/ G-X	GMV-504MM/ G-X	GMV-550MM/ G-X	GMV-615MM/ G-X	GMV-680MM/ G-X
8	GMV-224MM/G-X	●								
10	GMV-280MM/G-X		●							
12	GMV-335MM/G-X			●						
14	GMV-400MM/G-X				●					
16	GMV-450MM/G-X					●				
18	GMV-504MM/G-X						●			
20	GMV-550MM/G-X							●		
22	GMV-615MM/G-X								●	
24	GMV-680MM/G-X									●
26	GMV-735MM/G-X			●						
28	GMV-789MM/G-X			●	●					
30	GMV-839MM/G-X			●						
32	GMV-895MM/G-X			●						
34	GMV-950MM/G-X			●						
36	GMV-1019MM/G-X				●					
38	GMV-1064MM/G-X					●				
40	GMV-1119MM/G-X						●			
42	GMV-1175MM/G-X							●		
44	GMV-1230MM/G-X								●	
46	GMV-1295MM/G-X									●
48	GMV-1360MM/G-X									●
50	GMV-1399MM/G-X									●
52	GMV-1455MM/G-X									●
54	GMV-1510MM/G-X									●
56	GMV-1565MM/G-X									●
58	GMV-1623MM/G-X									●
60	GMV-1679MM/G-X									●
62	GMV-1734MM/G-X									●
64	GMV-1790MM/G-X									●
66	GMV-1845MM/G-X									●
68	GMV-1910MM/G-X									●
70	GMV-1975MM/G-X									●
72	GMV-2040MM/G-X									●
74	GMV-2099MM/G-X									●
76	GMV-2150MM/G-X									●
78	GMV-2205MM/G-X									●
80	GMV-2255MM/G-X									●
82	GMV-2300MM/G-X									●
84	GMV-2350MM/G-X									●
86	GMV-2414MM/G-X									●
88	GMV-2470MM/G-X									●
90	GMV-2525MM/G-X									●
92	GMV-2580MM/G-X									●
94	GMV-2635MM/G-X									●
96	GMV-2700MM/G-X									●

## GMV6 ( 280/230V 3~60Hz )

HP	Model	GMV-224MM/ G-F	GMV-280MM/ G-F	GMV-335MM/ G-F	GMV-400MM/ G-F	GMV-450MM/ G-F	GMV-504MM/ G-F	GMV-550MM/ G-F	GMV-615MM/ G-F	GMV-680MM/ G-F
8	GMV-224MM/G-F	●								
10	GMV-280MM/G-F		●							
12	GMV-335MM/G-F			●						
14	GMV-400MM/G-F				●					
16	GMV-450MM/G-F					●				
18	GMV-504MM/G-F						●			
20	GMV-550MM/G-F							●		
22	GMV-615MM/G-F								●	
24	GMV-680MM/G-F									●
26	GMV-735MM/G-F									●
28	GMV-785MM/G-F									●
30	GMV-839MM/G-F									●
32	GMV-895MM/G-F									●
34	GMV-950MM/G-F									●
36	GMV-1015MM/G-F									●
38	GMV-1064MM/G-F									●
40	GMV-1119MM/G-F									●
42	GMV-1175MM/G-F									●
44	GMV-1230MM/G-F									●
46	GMV-1295MM/G-F									●
48	GMV-1360MM/G-F									●
50	GMV-1399MM/G-F									●
52	GMV-1455MM/G-F									●
54	GMV-1510MM/G-F									●
56	GMV-1565MM/G-F									●
58	GMV-1623MM/G-F									●
60	GMV-1679MM/G-F									●
62	GMV-1734MM/G-F									●
64	GMV-1790MM/G-F									●
66	GMV-1845MM/G-F									●
68	GMV-1910MM/G-F									●
70	GMV-1975MM/G-F									●
72	GMV-2040MM/G-F									●
74	GMV-2099MM/G-F									●
76	GMV-2150MM/G-F									●
78	GMV-2205MM/G-F									●
80	GMV-2245MM/G-F									●
82	GMV-2295MM/G-F									●
84	GMV-2350MM/G-F									●
86	GMV-2414MM/G-F									●
88	GMV-2470MM/G-F									●
90	GMV-2525MM/G-F									●
92	GMV-2580MM/G-F									●
94	GMV-2635MM/G-F									●
96	GMV-2700MM/G-F									●

# ODU Combination Specifications

# ODU Combination Specifications

## GMV6 ( 440-460V 3~60Hz )

HP	Model	GMV-220VM/G-U	GMV-280VM/G-U	GMV-335VM/G-U	GMV-400VM/G-U	GMV-450VM/G-U	GMV-500VM/G-U	GMV-560VM/G-U	GMV-615VM/G-U	GMV-680VM/G-U
8	GMV-220VM/G-U	•								
10	GMV-280VM/G-U		•							
12	GMV-335VM/G-U			•						
14	GMV-400VM/G-U				•					
16	GMV-450VM/G-U					•				
18	GMV-500VM/G-U						•			
20	GMV-560VM/G-U							•		
22	GMV-615VM/G-U								•	
24	GMV-680VM/G-U									•
26	GMV-735VM/G-U									•
28	GMV-785VM/G-U									•
30	GMV-835VM/G-U									•
32	GMV-895VM/G-U									•
34	GMV-950VM/G-U									•
36	GMV-1015VM/G-U									•
38	GMV-1065VM/G-U									•
40	GMV-1119VM/G-U									•
42	GMV-1175VM/G-U									•
44	GMV-1230VM/G-U									•
46	GMV-1290VM/G-U									•
48	GMV-1350VM/G-U									•
50	GMV-1395VM/G-U									•
52	GMV-1455VM/G-U									•
54	GMV-1510VM/G-U									•
56	GMV-1565VM/G-U									•
58	GMV-1625VM/G-U									•
60	GMV-1679VM/G-U									•
62	GMV-1734VM/G-U									•
64	GMV-1790VM/G-U									•
66	GMV-1845VM/G-U									•
68	GMV-1910VM/G-U									•
70	GMV-1975VM/G-U									•
72	GMV-2040VM/G-U									•
74	GMV-2095VM/G-U									•
76	GMV-2129VM/G-U									•
78	GMV-2190VM/G-U									•
80	GMV-2245VM/G-U									•
82	GMV-2295VM/G-U									•
84	GMV-2350VM/G-U									•
86	GMV-2414VM/G-U									•
88	GMV-2470VM/G-U									•
90	GMV-2525VM/G-U									•
92	GMV-2590VM/G-U									•
94	GMV-2655VM/G-U									•
96	GMV-2720VM/G-U									•

## GMV6 ( 380-415V 3N~50/60Hz )

HP	Model	Power Supply	Capacity		Dimension (W×D×H) mm	Airflow Volume m³/h	ESP Pa	Connecting pipe		Microcut current A	Max. fuse current A	Net weight kg
			Cooling capacity kW	Heating capacity kW				Liquid mm	Gas mm			
24	GMV-680VM/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-730VM/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-784VM/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-840VM/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-895VM/H-X		89.5	106.5	930×775×1690 +1340×775×1690	10500+16500	110	φ19.05	φ31.8	23.5×49	25+50	220×355
34	GMV-950VM/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-1015VM/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-1065VM/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-1119VM/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-1175VM/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-1230VM/H-X		123.0	138.0	1340×775×1690×2	16500×2	110	φ19.05	φ38.1	49+49	50+50	385×2
46	GMV-1290VM/H-X		129.0	144.5	930×775×1690×2 1340×775×1690×2	10500+16500	110	φ19.05	φ38.1	23.5×39.3×48	25+40+50	220×300×350
48	GMV-1345VM/H-X		134.5	159.5	930×775×1690×2 1340×775×1690×2	10500+16500	110	φ19.05	φ38.1	23.5×39.3×49	25+40+50	220×300×355
50	GMV-1400VM/H-X		140.0	156.5	930×775×1690×2 1340×775×1690×2	15400+16500	110	φ19.05	φ41.3	24.1×36.3×49	25+40+50	240×300×355
52	GMV-1455VM/H-X		145.5	163.5	930×775×1690×2 1340×775×1690×2	10500+16500×2	110	φ19.05	φ41.3	23.5×48+49	25+50+50	220×350×355
54	GMV-1510VM/H-X		151.0	169.5	930×775×1690×2 1340×775×1690×2	10500+16500×2	110	φ19.05	φ41.3	23.5×48+49	25+50+50	220×355×2
56	GMV-1565VM/H-X		156.5	178.5	930×775×1690×2 1340×775×1690×2	11000+16500×2	110	φ19.05	φ41.3	24.1×49+49	25+50+50	240×355×2
58	GMV-1630VM/H-X		163.0	183.0	930×775×1690×2 1340×775×1690×2	13500+16500×2	110	φ19.05	φ41.3	37.5×48+49	40+50+50	300×355×2
60	GMV-1680VM/H-X		168.0	188.0	1340×775×1690×3	15400+16500×2	110	φ19.05	φ41.3	39.3×48+49	40+50+50	300×355×2
62	GMV-1734VM/H-X		173.4	194.5	1340×775×1690×3	16000+16500×2	110	φ19.05	φ41.3	47.4×49+49	50+50+50	350×355×2
64	GMV-1790VM/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-1845VM/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-1905VM/H-X		190.5	213.5	930×775×1690×3 1340×775×1690×3	10500+15400 16500×2	110	φ22.2	φ44.5	23.8×39.3×48+49	25+40+50+50	220×300×350×355
70	GMV-1959VM/H-X		195.9	220.0	930×775×1690×3 1340×775×1690×3	10500+16500×3 +16500×2	110	φ22.2	φ44.5	23.5×47×48+49	25+50+50+50	220×350×2×355
72	GMV-2015VM/H-X		201.5	226.5	930×775×1690×3 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-2070VM/H-X		207.0	232.5	930×775×1690×3 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-2125VM/H-X		212.5	238.5	930×775×1690×3 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-2180VM/H-X		218.0	244.5	930×775×1690×3 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-2245VM/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-2295VM/H-X		229.5	257.0	1340×775×1690×4	15400+16500×3	110	φ22.2	φ44.5	38.3×49+49+49	40+50+50+50	300×355×3
84	GMV-2345VM/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-2405VM/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
88	GMV-2465VM/H-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

# ODU Combination Specifications

## GMV6 (380-415V 3N~50/60Hz)

HP	Model	Power Supply	Capacity Cooling capacity kW	Capacity Heating capacity kW	Dimension (W×D×H) mm	Airflow Volume m <sup>3</sup> /h	ESP Pa	Connecting pipe Liquid Gas mm	Microcircuit current A	Maxfuse current A	Net weight kg
24	GMV-800MMH1-X		68.0	76.5	930×775×1690 +1340×775×1690	10500×15000	110	φ19.05	23.5+37.5	25+40	220~300
26	GMV-1000MMH1-X		73.0	81.5	930×775×1690 +1340×775×1690	10500×15000	110	φ19.05	23.5+37.5	25+40	220~300
28	GMV-1200MMH1-X		78.4	86.0	930×775×1690 +1340×775×1690	10500×15000	110	φ19.05	23.5+47	25+50	220~350
30	GMV-1400MMH1-X		84.0	94.5	930×775×1690 +1340×775×1690	10500×15000	110	φ19.05	23.5+48	25+50	220~350
32	GMV-1600MMH1-X		89.5	100.5	930×775×1690 +1340×775×1690	10500×15000	110	φ19.05	23.5+49	25+50	220~350
34	GMV-1800MMH1-X		95.0	106.5	930×775×1690 +1340×775×1690	11100×16500	110	φ19.05	24.1+49	25+50	240~355
36	GMV-1900MMH1-X		101.5	114.0	930×775×1690 +1340×775×1690	13500×16500	110	φ19.05	37.5+49	40+50	300~355
38	GMV-1950MMH1-X		106.5	119.0	930×775×1690 +1340×775×1690	15400×16500	110	φ19.05	39.3+49	40+50	300~355
40	GMV-1990MMH1-X		111.9	123.5	930×775×1690 +1340×775×1690	16000×16500	110	φ19.05	38.1	47+49	350~355
42	GMV-1990MMH1-X		117.5	132.0	930×775×1690 +1340×775×1690	16000×2	110	φ19.05	38.1	48+49	350~355
44	GMV-1990MMH1-X		123.0	138.0	930×775×1690 +1340×775×1690	16500×2	110	φ19.05	38.1	49+49	355×2
46	GMV-1990MMH1-X		129.0	144.5	930×775×1690 +1340×775×1690	16500	110	φ19.05	38.1	23.5+38+48	220~300~350
48	GMV-1990MMH1-X		134.5	150.5	930×775×1690 +1340×775×1690	10500+	110	φ19.05	38.1	23.5+38.3+49	220~300~355
50	GMV-1990MMH1-X		140.0	156.5	930×775×1690 +1340×775×1690	11100+	110	φ19.05	41.3	24.1+38+49	240~300~355
52	GMV-1455MMH1-X	380-415V 3N~50/60Hz	145.5	163.5	930×775×1690 +1340×775×1690	10500+16500×2	110	φ19.05	41.3	23.5+48+49	220~300~355
54	GMV-1510MMH1-X	380-415V 3N~50/60Hz	151.0	169.5	930×775×1690 +1340×775×1690	10500+16500×2	110	φ19.05	41.3	23.5+49+49	220~355×2
56	GMV-1555MMH1-X	380-415V 3N~50/60Hz	156.5	175.5	930×775×1690 +1340×775×1690	11100+16500×2	110	φ19.05	41.3	24.1+48+49	250~355×2
58	GMV-1555MMH1-X	380-415V 3N~50/60Hz	163.0	183.0	930×775×1690 +1340×775×1690	13500+16500×2	110	φ19.05	41.3	37.5+49+49	300~355×2
60	GMV-1600MMH1-X	380-415V 3N~50/60Hz	168.0	188.0	930×775×1690 +1340×775×1690	15000+16500×2	110	φ19.05	41.3	39.3+49+49	300~355×2
62	GMV-1734MMH1-X		173.4	194.5	930×775×1690 +1340×775×1690	16000+16500×2	110	φ19.05	41.3	47+49+49	350~355×2
64	GMV-1790MMH1-X		179.0	201.0	930×775×1690 +1340×775×1690	16500×3	110	φ19.05	41.3	48+49+49	350~355×2
66	GMV-1845MMH1-X		184.5	207.0	930×775×1690 +1340×775×1690	16500×3	110	φ19.05	41.3	48+49+49	355×3
68	GMV-1905MMH1-X		190.5	213.5	930×775×1690 +1340×775×1690	10500+15400	110	φ22.2	44.5	23.5+39.3+48+49	220~300~350+355
69	GMV-1950MMH1-X		195.9	220.0	930×775×1690 +1340×775×1690	10500+16000	110	φ22.2	44.5	23.5+47+48+49	220~350+2+355
70	GMV-2015MMH1-X		201.5	226.5	930×775×1690 +1340×775×1690	10500+16000	110	φ22.2	44.5	23.5+48+48+49	220~350+2+355
72	GMV-2070MMH1-X		207.0	232.5	930×775×1690 +1340×775×1690	10500+16000	110	φ22.2	44.5	23.5+48+48+49	220~350+2+355
74	GMV-2120MMH1-X		212.5	238.5	930×775×1690 +1340×775×1690	10500+16000	110	φ22.2	44.5	23.5+48+48+49	220~350+2+355
76	GMV-2120MMH1-X		218.0	244.5	930×775×1690 +1340×775×1690	10500+16000	110	φ22.2	44.5	23.5+49+48+49	220~355×3
78	GMV-2180MMH1-X		224.5	252.0	930×775×1690 +1340×775×1690	11100+16500×3	110	φ22.2	44.5	24.1+48+48+49	240~355×3
80	GMV-2245MMH1-X		229.5	257.0	930×775×1690 +1340×775×1690	13500+16500×3	110	φ22.2	44.5	37.5+49+48+49	300~355×3
82	GMV-2305MMH1-X		234.9	263.5	930×775×1690 +1340×775×1690	15000+16500×3	110	φ22.2	44.5	47+49+48+49	350~355×3
84	GMV-2365MMH1-X		240.5	270.0	930×775×1690 +1340×775×1690	16000×4	110	φ22.2	44.5	48+49+48+49	350~355×3
86	GMV-2405MMH1-X		246.0	276.0	930×775×1690 +1340×775×1690	16000×4	110	φ22.2	44.5	49+49+48+49	355×4

# ODU Combination Specifications

HP	Model	Power supply	Capacity Cooling kW	Capacity Heating kW	Power input Cooling kW	Power input Heating kW	Dimension (W×D×H) mm	Airflow volume m <sup>3</sup> /h	ESP Pa	Connecting pipe Liquid Gas mm	Microcircuit current A	Max. fuse current A	Net weight kg
26	GMV-735MMH1-X		73.5	82.5	16.90	17.50	930×775×1690 +1340×775×1690	11100+13500	110	φ19.05	24.1+32.5	25+40	220~290
28	GMV-765MMH1-X		78.5	87.5	18.50	19.50	930×775×1690 +1340×775×1690	11100+14000	110	φ19.05	24.1+33.5	25+40	220~290
30	GMV-795MMH1-X		83.9	94.0	20.00	20.70	930×775×1690 +1340×775×1690	11100+16000	110	φ19.05	24.1+47	25+50	220~295
32	GMV-885MMH1-X		89.5	100.5	22.40	22.80	930×775×1690 +1340×775×1690	10500+16500	110	φ19.05	23.5+49	25+50	218~350
34	GMV-950MMH1-X		95.0	106.5	23.90	24.70	930×775×1690 +1340×775×1690	11100+16500	110	φ19.05	24.1+49	25+50	220~350
36	GMV-1015MMH1-X		101.5	114.0	25.40	26.40	930×775×1690 +1340×775×1690	13500+16500	110	φ19.05	32.5+49	40+50	290~350
38	GMV-1065MMH1-X		106.5	119.5	26.10	27.42	930×775×1690 +1340×775×1690	16000+16500	110	φ19.05	38.1	47+48	295~350
40	GMV-1119MMH1-X		111.9	125.5	28.50	29.80	930×775×1690 +1340×775×1690	16000+16500	110	φ19.05	38.1	47+49	295~350
42	GMV-1175MMH1-X		117.5	132.0	30.40	31.42	930×775×1690 +1340×775×1690	1650+16500	110	φ19.05	38.1	48+49	350×2
44	GMV-1230MMH1-X		123.0	138.0	32.40	33.80	930×775×1690 +1340×775×1690	16500+16500	110	φ19.05	38.1	49+49	350×2
46	GMV-1290MMH1-X		129.0	145.5	35.70	37.00	930×775×1690 +1340×775×1690	16500+19350	110	φ19.05	38.1	49+49	350~355
48	GMV-1345MMH1-X		136.0	153.0	41.00	40.20	930×775×1690 +1340×775×1690	18350×2	110	φ19.05	41.3	49+49	385×2
50	GMV-1399MMH1-X		139.9	157.0	33.80	35.22	930×775×1690 +1340×775×1690	11100+	110	φ19.05	41.3	24.1+47+48	250~355~350
52	GMV-1455MMH1-X		145.5	163.5	36.20	37.22	930×775×1690 +1340×775×1690	10500+16500×2	110	φ19.05	41.3	23.5+48+49	250~350×2
54	GMV-1510MMH1-X		151.0	169.5	39.60	39.70	930×775×1690 +1340×775×1690	10500+16500×2	110	φ19.05	41.3	23.5+49+49	215~350×2
56	GMV-1555MMH1-X		156.5	175.5	40.10	41.60	930×775×1690 +1340×775×1690	11100+16500×2	110	φ19.05	41.3	24.1+49+49	220~350×2
58	GMV-1600MMH1-X		162.3	182.0	40.80	42.70	930×775×1690 +1340×775×1690	16000+16500×2	110	φ19.05	41.3	47+47+49	295+2+350
60	GMV-1695MMH1-X	380-415V 3N~50/60Hz	167.9	188.5	42.30	44.32	930×775×1690 +1340×775×1690	16000+16500×2	110	φ19.05	41.3	47+48+49	295~350×2
62	GMV-1734MMH1-X	380-415V 3N~50/60Hz	173.4	194.5	44.70	46.70	930×775×1690 +1340×775×1690	16500+16500×2	110	φ19.05	41.3	48+49+49	295~350×2
64	GMV-1790MMH1-X		184.5	207.0	48.60	50.70	930×775×1690 +1340×775×1690	16500×3	110	φ19.05	41.3	49+49+49	350×3
66	GMV-1845MMH1-X		191.0	214.5	52.90	53.90	930×775×1690 +1340×775×1690	16500×2+16550	110	φ22.2	44.5	49+50+50	350+2+355
68	GMV-1905MMH1-X		197.5	222.0	57.20	57.10	930×775×1690 +1340×775×1690	16500+18350×2	110	φ22.2	44.5	49+49+49	350+355×2
70	GMV-1950MMH1-X		204.0	229.5	61.50	60.30	930×775×1690 +1340×775×1690	18350×3	110	φ22.2	44.5	49+49+49	355×3
72	GMV-2015MMH1-X		209.9	237.0	64.50	64.50	930×775×1690 +1340×775×1690	16000+15500×2	110	φ22.2	44.5	35.5+47+48+49	220+295~350×2
74	GMV-2070MMH1-X		215.9	244.5	67.80	67.80	930×775×1690 +1340×775×1690	16000+16500×3	110	φ22.2	44.5	35.5+48+49+49	290~350×3
76	GMV-2120MMH1-X		224.5	252.0	71.80	71.80	930×775×1690 +1340×775×1690	13500+16500×3	110	φ22.2	44.5	40+50+50+50	290~350×3
78	GMV-2180MMH1-X		229.5	257.0	73.40	73.40	930×775×1690 +1340×775×1690	16500×4	110	φ22.2	44.5	48+48+48+49	350×4
80	GMV-2245MMH1-X		235.0	263.5	76.80	76.80	930×775×1690 +1340×775×1690	16500×4	110	φ22.2	44.5	48+48+48+49	350×4
82	GMV-2305MMH1-X		240.5	270.0	79.80	79.80	930×775×1690 +1340×775×1690	16500×4	110	φ22.2	44.5	48+48+48+49	350×4
84	GMV-2365MMH1-X		246.0	276.0	82.80	82.80	930×775×1690 +1340×775×1690	18350×4	110	φ22.2	44.5	49+49+48+49	355×4

# ODU Combination Specifications

## GMV6 (208/230V 3~60Hz)

HP	Model	Power supply	Capacity Cooling kW	Power input Cooling kW	Heating kW	Dimension(W×D×H) mm		ESP Pa	Airflow volume m³/h	Connecting pipe Liquid mm	MCA A	MCP A	Net weight kg	
						mm	mm							
26	GMV-750MM/G-F		73.5	82.5	15.73	17.06	930×775×1690 +1340×775×1690	110	11000+13500	110	19.05	43.6+50.3	50+60	224+307
28	GMV-785MM/G-F		78.5	87.5	17.23	19.90	930×775×1690 +1340×775×1690	110	11000+15000	110	19.05	43.6+51.2	50+60	224+307
30	GMV-830MM/G-F		83.9	94.0	19.03	21.30	1340×775×1690 +1340×775×1690	110	11100+16000	110	19.05	43.6+53.9	50+60	224+312
32	GMV-895MM/G-F		89.5	106.5	21.28	22.90	1340×775×1690 +1340×775×1690	110	10500+16500	110	19.05	38.1+49.0	40+100	219+355
34	GMV-950MM/G-F		95.0	108.5	22.93	24.60	1340×775×1690 +1340×775×1690	110	11100+16000	110	19.05	43.6+50.2	50+100	224+355
36	GMV-1015MM/G-F		101.5	114.0	24.40	26.26	1340×775×1690 +1340×775×1690	110	13500+16500	110	19.05	53.9+59.4	60+100	307+395
38	GMV-1064MM/G-F		106.4	119.5	25.40	28.95	1340×775×1690 +1340×775×1690	110	16000+16500	110	19.05	53.9+59.4	60+100	312+355
40	GMV-1119MM/G-F		111.9	126.5	27.70	30.50	1340×775×1690 +1340×775×1690	110	16000+16500	110	19.05	53.9+59.4	60+100	312+355
42	GMV-1175MM/G-F		117.5	132.0	29.30	32.25	1340×775×1690 +1340×775×1690	110	1690+16500	110	19.05	38.1+49.0	100+100	355+355
44	GMV-1230MM/G-F		123.0	138.0	31.60	33.80	1340×775×1690 +1340×775×1690	110	16500+16500	110	19.05	38.1+49.0	100+100	355+355
46	GMV-1305MM/G-F		129.5	146.5	35.20	36.40	1340×775×1690 +1340×775×1690	110	18350×2	110	19.05	43.6+50.3	100+100	355+360
48	GMV-1360MM/G-F		136.0	153.0	38.80	39.00	1340×775×1690 +1340×775×1690	110	18350×2	110	19.05	43.6+50.3	100+100	380+360
50	GMV-1399MM/G-F		139.9	157.0	32.53	36.65	930×775×1690 +1340×775×1690	110	11100+16000 +16500	110	19.05	43.6+53.9+89.4	50+60+100	224+312+385
52	GMV-1455MM/G-F		145.5	163.5	34.78	38.25	930×775×1690 +1340×775×1690	110	10500+16500×2	110	19.05	38.1+49.0+90	40+100+100	219+359+395
54	GMV-1510MM/G-F		151.0	169.5	37.08	39.80	930×775×1690 +1340×775×1690	110	10500+16500×2	110	19.05	38.1+49.0+90	40+100+100	219+355+395
56	GMV-1565MM/G-F		156.5	175.5	38.73	41.50	930×775×1690 +1340×775×1690	110	11100+16500×2	110	19.05	43.6+50.3	50+100+100	224+355+385
58	GMV-1623MM/G-F		162.3	182.0	39.60	44.10	930×775×1690 +1340×775×1690	110	16000×2+16500	110	19.05	53.9+53.9+90	50+60+100	312+312+355
60	GMV-1679MM/G-F	440- S-60Hz	167.9	186.5	41.20	45.85	930×775×1690 +1340×775×1690	110	18000+16500×2	110	19.05	53.9+59.4+90	50+100+100	312+355+385
62	GMV-1734MM/G-F		173.4	194.5	43.50	47.40	930×775×1690 +1340×775×1690	110	18000+16500×2	110	19.05	53.9+59.4+90	50+100+100	312+355+385
64	GMV-1790MM/G-F		179.0	201.0	45.10	49.15	930×775×1690 +1340×775×1690	110	16500×3	110	19.05	89.4+90+90	50+100+100	355+355+385
66	GMV-1845MM/G-F		184.5	207.0	47.40	50.70	930×775×1690 +1340×775×1690	110	16500×3	110	19.05	90+90+90	50+100+100	355+355+385
68	GMV-1910MM/G-F		191.0	214.5	51.00	53.30	930×775×1690 +1340×775×1690	110	16500×3+18350	110	22.2	90+90+91.3	100+100+100	355+355+390
70	GMV-1975MM/G-F		197.5	222.0	54.80	56.90	930×775×1690 +1340×775×1690	110	16500×3+18350×2	110	22.2	90+91.3+91.3	100+100+100	355+360+360
72	GMV-2040MM/G-F		204.0	229.5	58.20	58.50	930×775×1690 +1340×775×1690	110	18350×3	110	22.2	91.3+91.3+91.3	100+100+100	360+360+360
74	GMV-2089MM/G-F		208.9	234.0	50.63	55.10	930×775×1690 +1340×775×1690	110	11100+16000 +16500×2	110	22.2	43.6+53.9 +90+90	50+60 +100+100	224+312+ 355+355
76	GMV-2129MM/G-F		212.9	238.5	51.30	57.05	930×775×1690 +1340×775×1690	110	15400+16000 +16500×2	110	22.2	51.0 +90+90	60+100 +100+100	307+355+ 355+355
78	GMV-2190MM/G-F		219.0	246.0	53.70	58.51	930×775×1690 +1340×775×1690	110	13500+16500×3	110	22.2	50.3+89.4 +90+90	60+100 +100+100	307+355+ 355+355
80	GMV-2245MM/G-F		224.5	252.0	56.00	60.06	930×775×1690 +1340×775×1690	110	13500+16500×3	110	22.2	50.3+90 +90+90	60+100 +100+100	307+355+ 355+355
82	GMV-2295MM/G-F		229.5	258.0	56.30	62.95	930×775×1690 +1340×775×1690	110	16500×4	110	22.2	53.9+90 +90+91.3	60+100 +100+100	355+355+ 355+355
84	GMV-2350MM/G-F		235.0	264.0	58.60	64.50	930×775×1690 +1340×775×1690	110	16500×4	110	22.2	53.9+90 +90+91.3	60+100 +100+100	355+355+ 355+355
86	GMV-2414MM/G-F		241.4	271.0	62.90	66.90	930×775×1690 +1340×775×1690	110	16000+16500×2 +18350	110	22.2	53.9+90 +90+91.3	60+100 +100+100	312+355+ 355+360
88	GMV-2470MM/G-F		247.0	277.5	64.50	68.65	930×775×1690 +1340×775×1690	110	16500×3+18350	110	22.2	53.9+90 +90+91.3	60+100 +100+100	355+360 +355+360
90	GMV-2525MM/G-F		252.5	283.5	66.80	70.20	930×775×1690 +1340×775×1690	110	16500×3+18350	110	22.2	53.9+90 +90+91.3	60+100 +100+100	355+360 +355+360
92	GMV-2590MM/G-F		259.0	291.0	70.40	72.80	930×775×1690 +1340×775×1690	110	16500×2+18350×2	110	22.2	53.9+90 +90+91.3	60+100 +100+100	355+355+ 380+360
94	GMV-2655MM/G-F		265.5	298.5	74.00	75.40	930×775×1690 +1340×775×1690	110	16500+18350×3	110	22.2	53.9+90 +90+91.3	60+100 +100+100	355+360+360
96	GMV-2720MM/G-F		272.0	306.0	77.60	78.00	930×775×1690 +1340×775×1690	110	18350×4	110	22.2	53.9+90 +90+91.3	60+100 +100+100	360+360+ 380+360

# ODU Combination Specifications

## GMV6 (440-460V 3~60Hz)

HP	Model	Power supply	Capacity Cooling kW	Power input Cooling kW	Heating kW	Dimension(W×D×H) mm		ESP Pa	Airflow volume m³/h	Connecting pipe Liquid mm	MCA A	MCP A	Net weight kg	
						mm	mm							
26	GMV-750MM/G-U		73.5	82.5	15.73	17.06	930×775×1690 +1340×775×1690	110	11000+13500	110	19.05	21+23.9	30+30	235+295
28	GMV-785MM/G-U		78.5	87.5	17.23	19.90	930×775×1690 +1340×775×1690	110	11000+15000	110	19.05	21+24.2	30+30	235+295
30	GMV-830MM/G-U		83.9	94.0	19.03	21.30	1340×775×1690 +1340×775×1690	110	11100+16000	110	19.05	21+25.2	30+30	235+300
32	GMV-895MM/G-U		89.5	106.5	21.28	22.90	1340×775×1690 +1340×775×1690	110	10500+16500	110	19.05	20+38	25+40	230+355
34	GMV-950MM/G-U		95.0	108.5	22.93	24.60	1340×775×1690 +1340×775×1690	110	11100+16000	110	19.05	21+38	30+40	239+355
36	GMV-1015MM/G-U		101.5	114.0	24.40	26.26	1340×775×1690 +1340×775×1690	110	13500+16500	110	19.05	23.9+38	30+40	295+355
38	GMV-1064MM/G-U		106.4	119.5	25.40	28.95	1340×775×1690 +1340×775×1690	110	16000+16500	110	19.05	23.9+38	30+40	300+355
40	GMV-1119MM/G-U		111.9	126.5	27.70	30.50	1340×775×1690 +1340×775×1690	110	16000+16500	110	19.05	25+38	30+40	300+355
42	GMV-1175MM/G-U		117.5	132.0	29.30	32.25	1340×775×1690 +1340×775×1690	110	1690+16500	110	19.05	38.2+38	40+40	355+355
44	GMV-1230MM/G-U		123.0	138.0	31.60	33.80	1340×775×1690 +1340×775×1690	110	16500+16500	110	19.05	38+38	40+40	355+355
46	GMV-1305MM/G-U		129.5	146.5	35.20	36.40	1340×775×1690 +1340×775×1690	110	18350×2	110	19.05	38.1+39	40+45	355+360
48	GMV-1360MM/G-U		136.0	153.0	38.80	39.00	1340×775×1690 +1340×775×1690	110	18350×2	110	19.05	40.9+40.9	45+45	360+360
50	GMV-1399MM/G-U		139.9	157.0	32.53	36.65	930×775×1690 +1340×775×1690	110	11000+16000 +16500×2	110	19.05	41.3	29+30+40	235+300+355
52	GMV-1455MM/G-U		145.5	163.5	34.78	38.25	930×775×1690 +1340×775×1690	110	10500+16500×2	110	19.05	20+38.2+38	25+40+40	230+354+355
54	GMV-1510MM/G-U		151.0	169.5	37.08	39.80	930×775×1690 +1340×775×1690	110	10500+16500×2	110	19.05	20+38+38	25+40+40	230+354+355
56	GMV-1565MM/G-U		156.5	175.5	38.73	41.50	930×775×1690 +1340×775×1690	110	11100+16500×2	110	19.05	21+38+38	30+40+40	255+355+355
58	GMV-1623MM/G-U		162.3	182.0	39.60	44.10	930×775×1690 +1340×775×1690	110	16000×2+16500	110	19.05	25+29+38	30+30+40	300+300+355
60	GMV-1679MM/G-U	440- S-60Hz	167.9	186.5	41.20	45.85	930×775×1690 +1340×775×1690	110	18000+16500×2	110	19.05	25+36.2+38	30+40+40	300+355+355
62	GMV-1734MM/G-U		173.4	194.5	43.50	47.40	930×775×1690 +1340×775×1690	110	18000+16500×2	110	19.05	25+38+38	30+40+40	300+355+355
64	GMV-1790MM/G-U		179.0	201.0	45.10	49.15	930×775×1690 +1340×775×1690	110	16500×3	110	19.05	36.2+38+38	40+40+40	355+355+355
66	GMV-1845MM/G-U		184.5	207.0	47.40	50.70	930×775×1690 +1340×775×1690	110	16500×3	110	19.05	38+38+38	40+40+40	355+355+355
68	GMV-1910MM/G-U		191.0	214.5	51.00	53.30	930×775×1690 +1340×775×1690	110	16500×3+18350	110	22.2	40.9+38+38	40+40+45	355+355+360
70	GMV-1975MM/G-U		197.5	222.0	54.80	56.90	930×775×1690 +1340×775×1690	110	16500×3+18350×2	110	22.2	40.9+38+38	40+45+45	355+360+360
72	GMV-2040MM/G-U		204.0	229.5	58.20	58.50	930×775×1690 +1340×775×1690	110	18350×3	110	22.2	40.9+40.9 +40.9	45+45+45	360+360+360
74	GMV-2089MM/G-U		208.9	234.0	50.63	55.10	930×775×1690 +1340×775×1690	110	11100+16000 +16500					

# Everything is in GMV6 Heat Recovery

## GMV6 HR



Simultaneous  
cooling and heating



Hot water and floor heating



Fresh air

**SCHE**  
Max. 9.0



Continuous heating

## Why Choose VRF Heat Recovery System

### Demand

In a large open space (such as an office), there may be different demands for cooling and heating due to locations, personal preferences or special requirements (For example, the living area requires heating while the storage room requires constant cooling). The heat recovery system can set up cooling and heating simultaneously in different areas of the same system based on user demands.



### Energy Saving

The heat recovery system has multiple operating modes, among which the main unit cooling, main unit heating and total heat recovery can realize the heat recovery function. Under heat recovery mode, the system will provide the cooling energy absorbed by the heating side directly to the cooling side, which can reduce the capacity output of the outdoor unit and greatly improve the energy saving effect. Under total heat recovery mode, the system can achieve the optimal energy-saving performance and the energy efficiency of the system will be 3~4 times higher compared to other conventional operating modes.

### Flexible

The heat recovery system is designed to have the features of a heat pump system with unique heat recovery function. It can run in cooling, heating or other operating modes flexibly according to a specific installation location, environmental changes and comfort requirements, so as to meet user demands in real time.

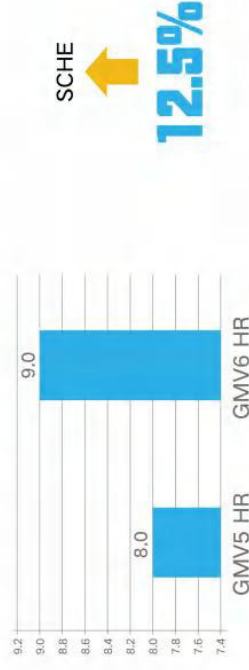
## Multiple Functions in One Unit

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.

# Continuous Heating

GMV6 HR is designed with a continuous heating system. In case of modular combination, different modules can defrost in turn to reduce indoor temperature fluctuation, which will further improve the level of heating comfort.



# Clean and Healthy Fresh Air

## Fresh Air System

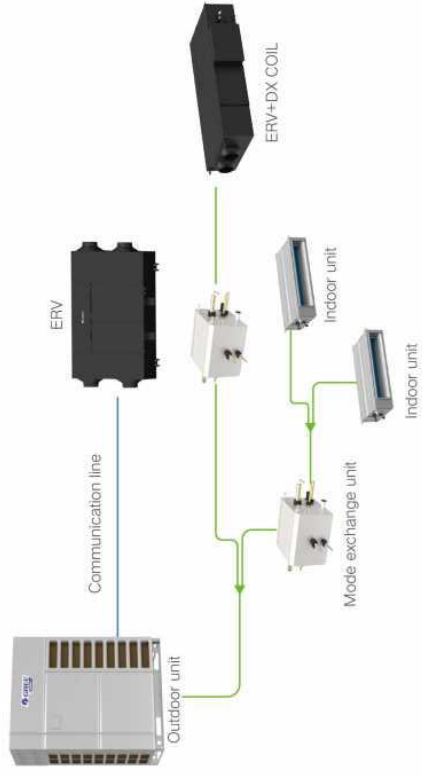
GMV6 HR can cooperate with the VRF fresh air unit so that the air conditioning system and the fresh air system are combined as a whole. The fresh air unit will share some of the fresh air load to satisfy different demands for indoor fresh air supply.



# GMV6 HR All DC Inverter VRF

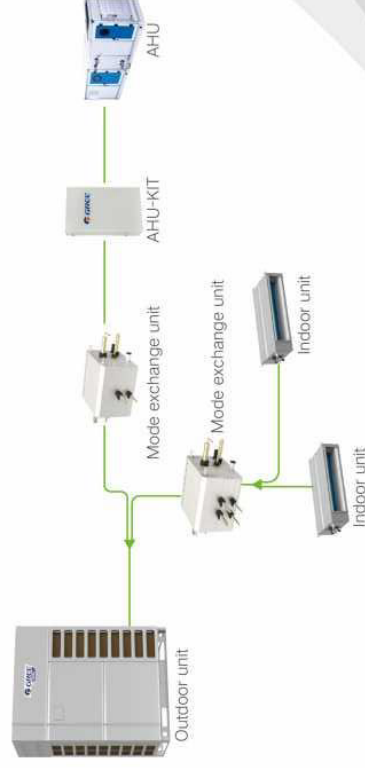
## ERV System

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



## Purification System

Gree DX AHU (direct-expansion air handling unit) can be connected to Gree VRF system, so that the air handling unit is with the functions of the VRF system and can meet the cooling/heating requirement in large places. This air handling unit can be equipped with purification devices with various filter grades to meet the purification requirements in different applications.

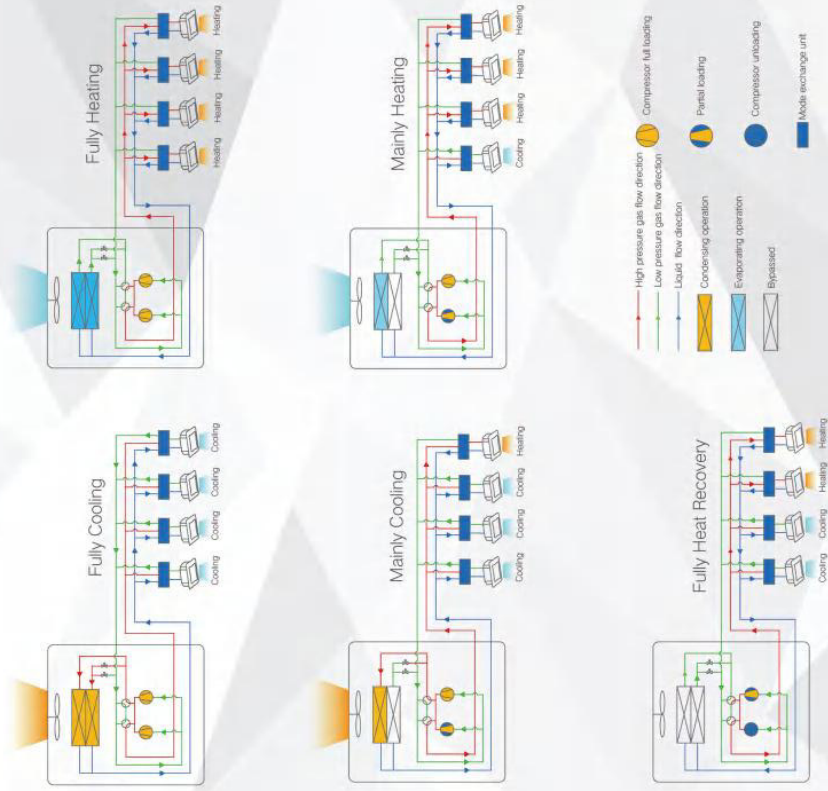




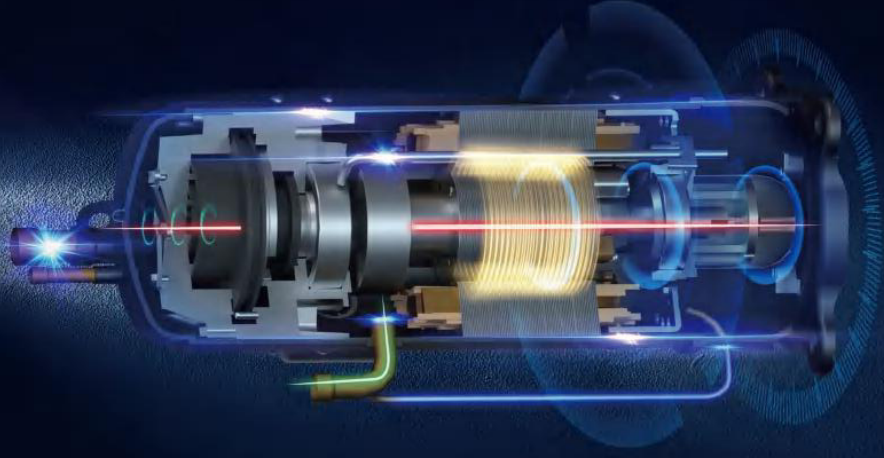
# High Energy Efficiency

## 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.



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

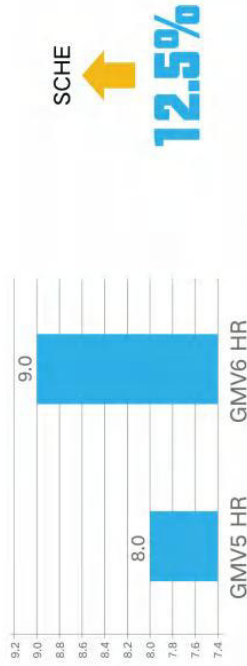


Low-temperature enthalpy-adding compressor is developed according to the features of VRF units. With a regulation range of 0-420Hz, it can perfectly coordinate with the machine so as to excel the performance to the greatest extent.

Dual EEV enthalpy-adding control: Compressor enthalpy increase can be controlled flexibly to realize the maximum enthalpy increase.

### 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.

### G-shape Integrated Heat Exchanger



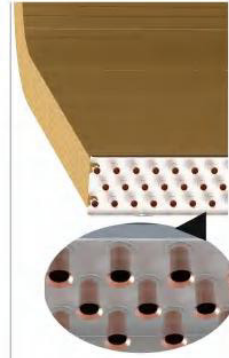
Molded at one time, the G-shape integrated heat exchanger can improve space utilization, and increase heat exchange area and heat exchange efficiency.

\*Note: Applicable for some models.

### Multi-row Small Diameter Design

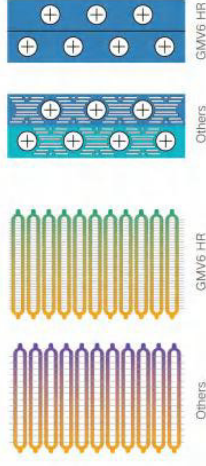
The refrigerant pipe adopts  $\varnothing 7\text{mm}$  and 3-row design, which can reduce the flowing resistance of refrigerant inside the pipe and effectively increase the heat exchange area of refrigerant, so as to optimize and improve the heat exchange efficiency.

\*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.



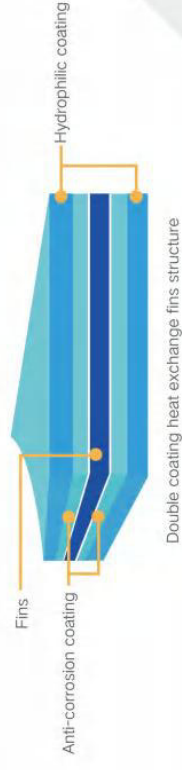
### Internal Screw Thread Design of Copper Tube

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.



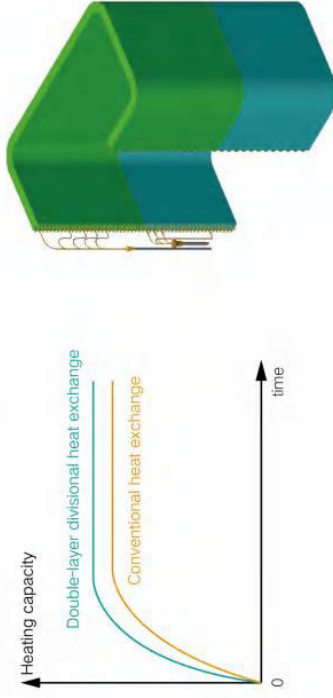
### Multi-functional Heat Exchanger Fins

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, thus stronger corrosion resistance and better heat exchange effect.



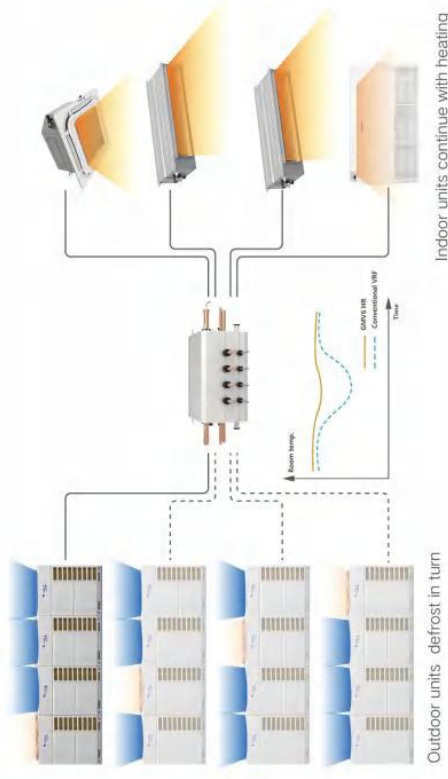
### Double-layer Independent Divisional Control for Heat Exchanger

According to the features of the wind field, the heat exchanger has a divisional design for the flow paths. The upper and lower heat exchangers are designed with independent EEV control to realize more reasonable flow distribution, which can optimize the heat exchange performance.



### Continuous Heating

GMV6 HR is designed with a continuous heating system. In case of modular combination, different modules can defrost in turn to reduce indoor temperature fluctuation, which will further improve the level of heating comfort.



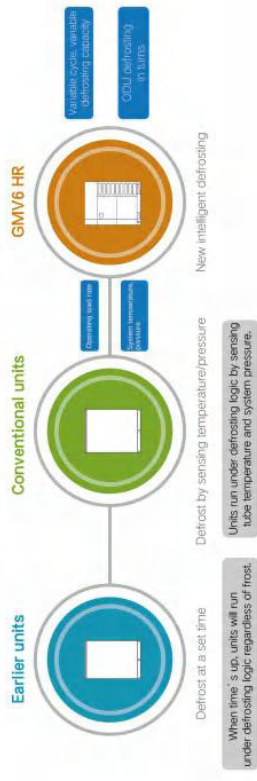
\*Applicable to partial models

\*This function must be set in the field. When this function is set, continuous heating will be activated under certain ambient temperature conditions.

### Multi-dimensional Intelligent Defrosting

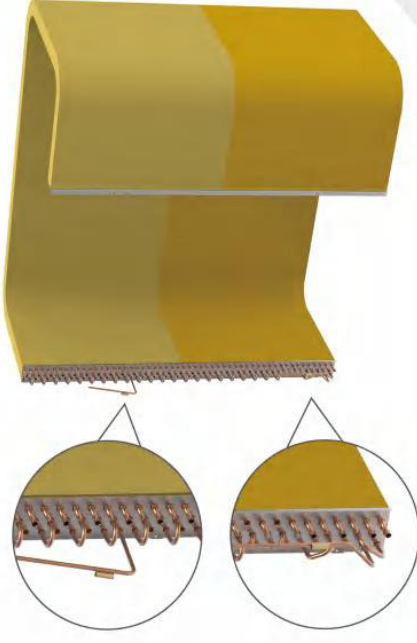
GMV6 HR is equipped with multiple defrosting technologies. It adopts the control method of variable temperature difference and variable load rate to achieve efficient and rapid defrosting. Under certain conditions, the outdoor units can defrost in turn to make sure the indoor units can continue with heating.

#### Development of Defrosting Technology



### Two Temperature Sensors for Upper and Lower Heat Exchangers

The upper and lower heat exchangers are independently controlled by two defrosting temperature sensors, which can accurately judge the thickness of frost on heat exchangers so as to carry out thorough defrosting.



## Project Self-adaptive Control

### Variable Defrosting Cycle Control

The unit can define the frost degree according to the defrosting time change under different circumstances and then adjust the defrosting cycle automatically to improve the accuracy of defrosting.

### Variable Defrosting Capacity Control

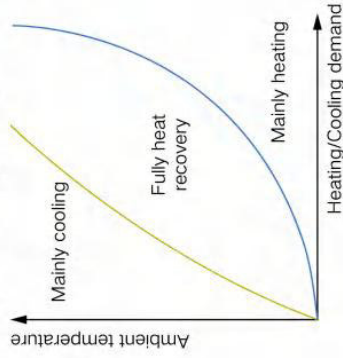
The speed of defrosting is closely related to the output of compressor. Generally, when the unit is defrosting, the output capacity of compressor is fixed, which may lead to long defrosting time or failure to defrost normally in actual use.

In order to realize stable and rapid defrosting, GMV6 HR can automatically change the output capacity during defrosting through real-time parameter learning and judgment.



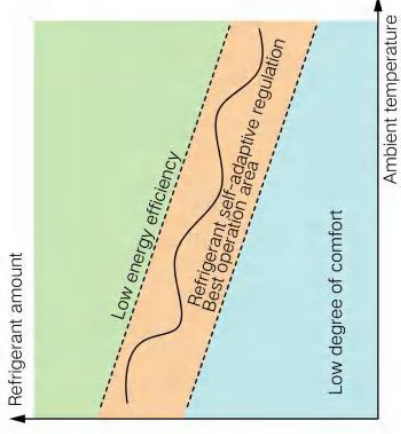
### Intelligent Heat Recovery Control

GMV6 HR adopts intelligent heat recovery control technology. Under heat recovery mode, it can intelligently switch among mainly cooling mode, fully heat recovery mode and mainly heating mode according to the operating condition and load. Under high temperature, the operation of indoor units in cooling mode will be given priority, under low temperatures, the operation of indoor units in heating mode will be given priority. This is to achieve the best energy efficiency while ensuring user comfort.



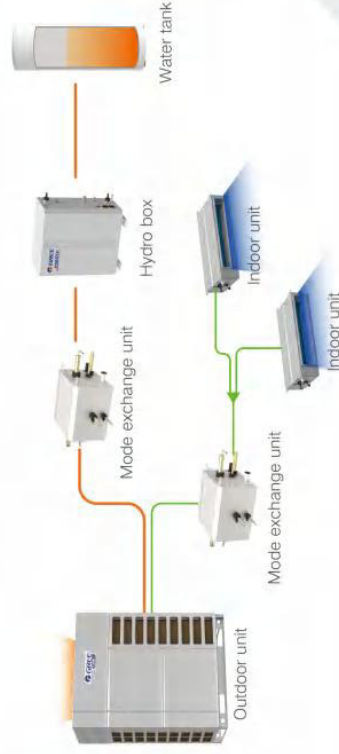
### Refrigerant Self-adaptive Regulation Technology

GMV6 HR adopts refrigerant self-adaptive regulation technology. When the ambient temperature or the load of indoor unit changes, it will automatically adjust the amount of system refrigerant circulation according to the output demand of outdoor units. This technology can prevent energy efficiency decrease in cooling caused by excess refrigerant and maintain the comfort degree in heating by preventing refrigerant insufficiency so that the unit can always run in a healthy, energy-saving and comfortable state.



### 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.



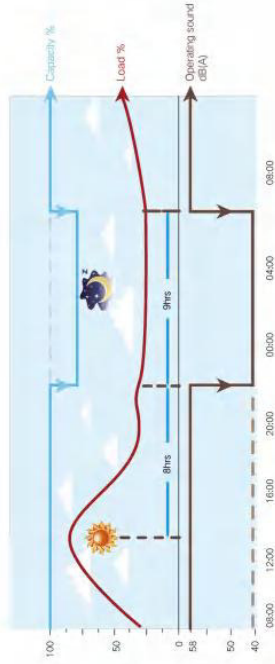
Note: This function defaults to be on before ex-factory. It can be turned off in setting.

## 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.



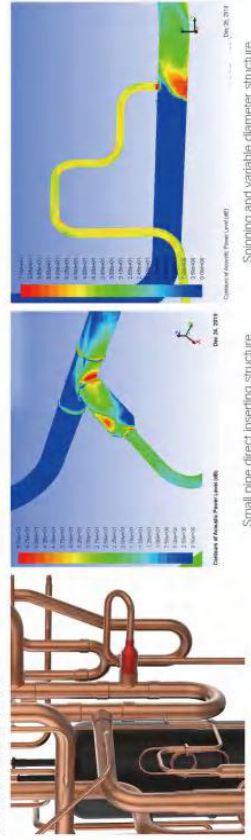
#### Mandatory Quiet Function

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).



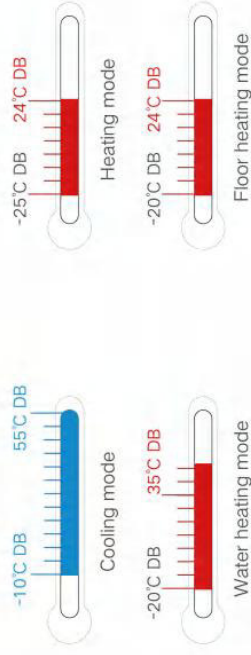
### Spinning and Variable Pipe Diameter Design for Noise Reduction

The inlet pipe from sub-cooler to gas separator adopts a spinning structure with variable diameter, which can slow down the refrigerant flow in the pipeline, greatly reduce the flow noise of the pipe, and significantly lower the broadband noise.



## Stable and Reliable Operation

### Super Wide Operating Range



### 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.

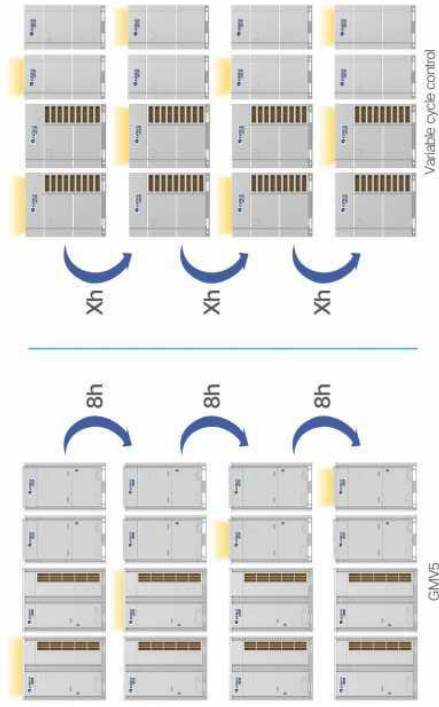


Note: If indoor units and hydro box run in heating at the same time, heating performance will be affected.

### 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.



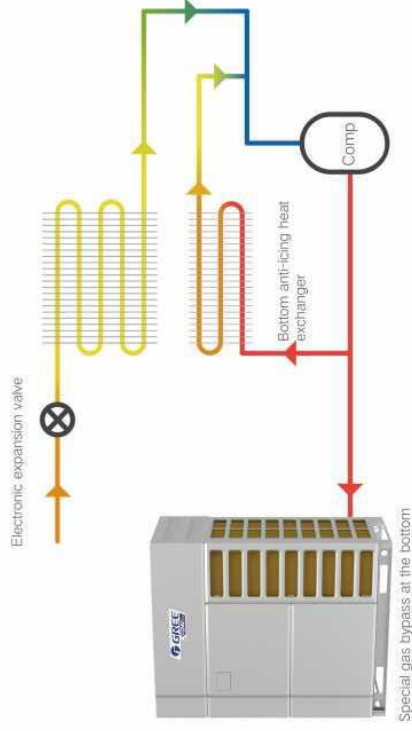
GMV5

Variable cycle control

X refers to the variable cycle

### Low-temperature Anti-freezing Control

To ensure smooth water drainage and reliable operation under low temperatures, a special bypass is added at the bottom of the heat exchanger for anti-freezing control.



### 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.



### Compressor Alternate Control

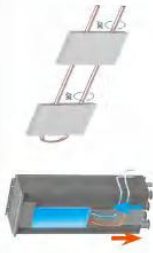
As for the system control, not only the overall service life of the modular design is considered, when the module is designed for multiple compressors, the internal compressors will also conduct rotation control to balance the operating service life of each compressor.



\*Applicable to some models.

### 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°C, and reliability raised dramatically.



### Diversified Backup Operation

#### Basic module emergency function

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



Malfunction

#### Fan emergency function

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



Malfunction

#### Compressor emergency function

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



Operation 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.

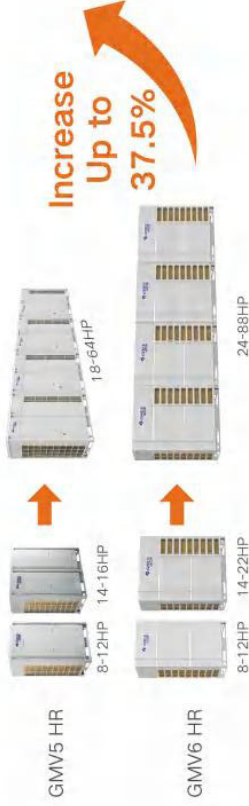


Malfunction

### Flexible Engineering Design

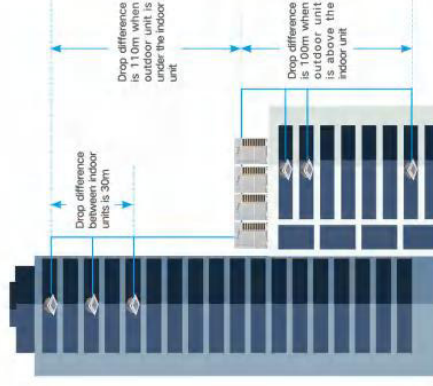
#### Wide Capacity Range

Basic modules are designed with large capacity. The maximum capacity is further improved, which can satisfy various engineering needs and increase the construction efficiency.



### Super Long Refrigerant Pipe Design

GMV6 HR 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.



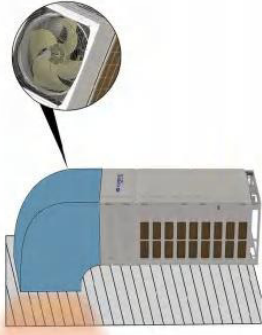
- The maximum actual single pipe length is 200m; the maximum equivalent single pipe length is 240m, and the maximum piping length is 1,000m.
- The maximum length after the first branch pipe is 120m \*.
- The maximum drop of indoor and outdoor units is 110m \* (100m when the outdoor unit is in upper position)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

\*Please consult the sales representatives 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).



### Efficiently Maintained Structural Layout

GMV6 HR 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.

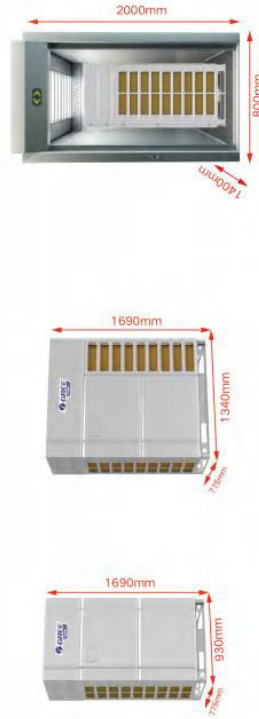
The solenoid valve is neatly fitted into a small space. It can be disassembled without removing the electric box, which has greatly improved the maintenance efficiency.



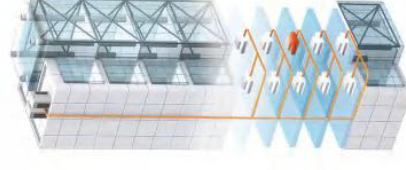
### Compact Design

	GMV5 HR	GMV6 HR	Floor Space Reduction	Effect
335			29% ↓	Less requirement in engineering application, more efficient in space utilization
615			40% ↓	

The whole series of units from 8HP to 22HP can easily enter common residential elevators without specialized equipment, which has greatly reduced the construction cost.



### 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



## 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.



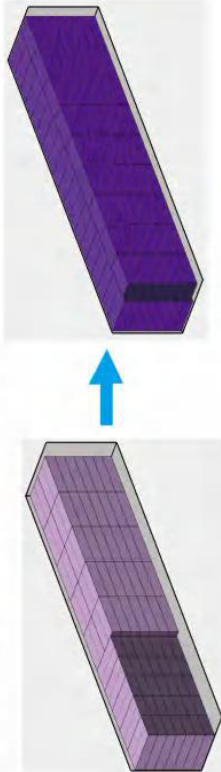
Note: For two branches in parallel, the maximum capacity of connectable indoor units is 28kW.

### 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%.



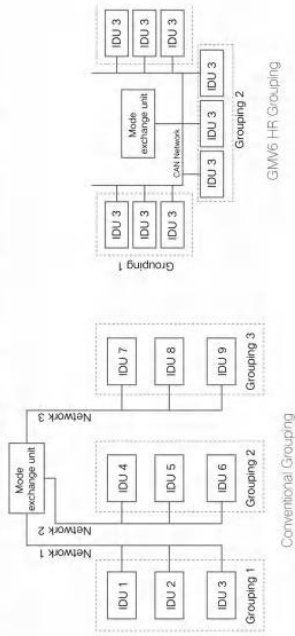
Loading quantity (last generation)

Loading quantity (new generation)

Note: Limited to some models.

## Indoor Unit Network Auto Grouping Control

GMV6 HR can realize auto intelligent identification through a built-in algorithm. It can automatically set groups for indoor units, which has improved the installation and debugging efficiency.



Conventional Grouping

GMV6 HR Grouping

## 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, while other rooms are forbidden to use the air conditioner.



## Priority Setting for Air Heating, Hot Water and Floor Heating

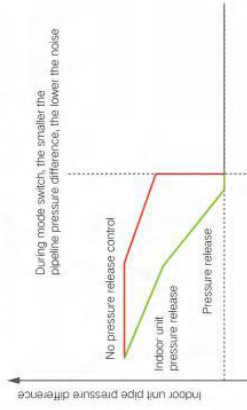
GMV6 HR is with multiple mode setting functions. System will give priority to air heating, hot water or floor heating mode according to the priority setting. User can set air heating priority, hot water priority or floor heating priority based on local weather conditions and application scenarios.

Priority setting	Code	Notes
Air heating	01	Air heating takes priority
Water heating	02	Water heating takes priority
Floor heating	03	Floor heating takes priority
.....	.....	.....

Note: This function must be set in the field.

### Noise Reduction Design of Mode Exchange Unit

The noise of mode exchange unit is mostly caused by the large pressure difference between the indoor unit pipeline and the outdoor unit pipeline during mode switch. The new generation mode exchange unit adopts preliminary pressure release control technology. By combining preliminary indoor unit pressure release control with preliminary bypass pressure release control, the indoor unit pipeline pressure can be quickly balanced during the mode switch of indoor units, avoiding the noise caused by the switching pressure difference and ensuring the quiet and rapid mode switch of indoor units.



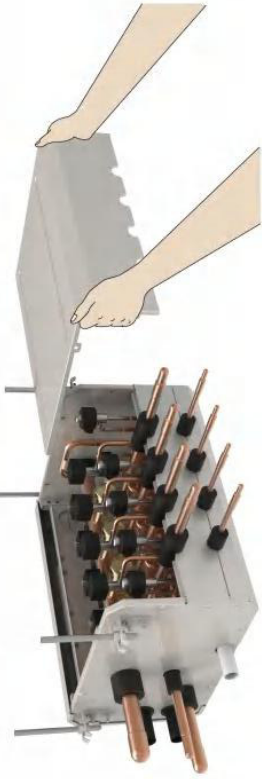
### One-piece Connection Pipe Design, Efficient and Safe

The connection pipe is designed with a variable diameter spinning sealing, for easy installation and less installation time. It can satisfy requirements for different pipe size in engineering pipe connection. There's no need to remove the sealing cap through welding, which is safer. Less oxide is produced, and the system is cleaner.



### Structure for Efficient Maintenance

The L-shape integrated upper cover plate is designed so that there's a better view and enough operation space for the inspection and maintenance of pipes and valves when the upper cover plate is removed.



### Hydro Box

#### Wide Capacity Range

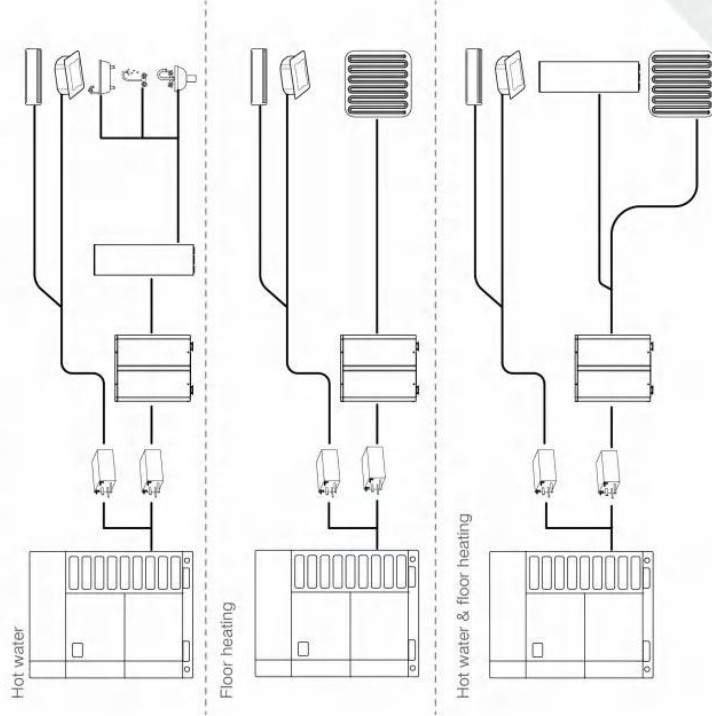
There are two capacity options for a single unit: 16/30kWm, which can satisfy different engineering requirements.



16/30kW

#### Double Functions

The hydro box can be connected to the water tank and floor heating independently or simultaneously. It is equipped with a new generation matrix wired controller, through which you can set hot water function or floor heating function. Two functions in one machine, satisfying customers' various needs.



\*Note: Wired controller model: XE70-11/H.

### New Type Wired Controller as Standard Supply

It is a brand new matrix type wired controller of touch control. It is designed with a new interaction logic, which makes the controller easy to use; the matrix screen allows the display to be more visually pleasing and rich, concise but not simple.

- ◆ Touch buttons with rich functions
- ◆ Simple appearance
- ◆ With weekly timer, easy to use



Wired controller model: XE70-11/H

### Flexible Model Selection

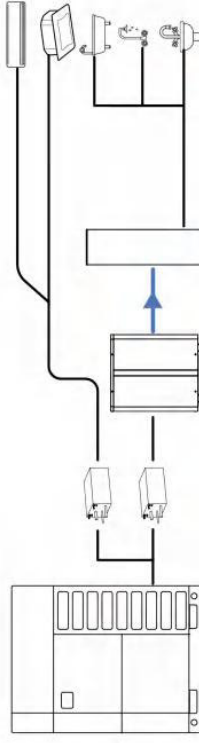
You can connect the hydro box to Gree water tank or inner coil water tank purchased separately. User can design his/her own inner coil water tank according to the engineering characteristics, to make the engineering design more flexible.

\*Note: The separately purchased water tank must be a inner coil water tank.

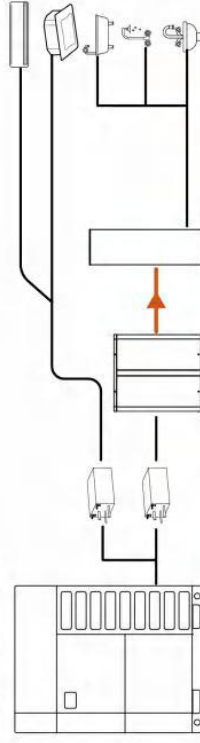
### Intelligent Hydro Box Anti-freezing Design

When the hydro box is stopped and water temperature is below 0°C, the plate heat exchanger may be freezing and broken, which will affect the safe operation of the entire system. In GMV6 HR, we adopt an intelligent step-by-step anti-freezing strategy so that the hydro box will implement different anti-freezing control logics according to its actual status, running time and water side temperature, providing safe and anti-freezing protection while maintaining the level of comfort indoors.

Without anti-freezing design



With anti-freezing design



### High-temperature Sterilization Function

This product is with high-temperature sterilization function. When it is activated, it can effectively remove bacteria. The water tank temperature can be heated to 70°C. High-efficiency sterilization is included to care for the health of users.

### Sunflower Function

This product is with sunflower function. The algorithm of the new sunflower function can automatically track and collect the temperature data of the daytime hour by hour so as to predict high temperature periods in the daytime and heat up water correspondingly, which is efficient and energy-saving.



### Solar Power Function

It is equipped with a solar power water pump interface, a solar power temperature sensor interface and a solar power temperature sensor and can be connected to a solar power water tank. It can intelligently control the solar power water pump according to outdoor temperature and the solar power water temperature so as to heat up the water tank.



\*Note: A dual inner coil water tank solar power water tank must be used.

## Mode Exchange Unit

Model	Product Appearance	Model	Product Appearance
NCH-S1D		NCH-S4D	
NCH-S2D		NCH-S8D	

## Hydro Box

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

## Outdoor Unit

Model	GMV-VQ22RWM/ C-X	GMV-VQ35RWM/ C-X	GMV-VQ40RWM/ C-X	GMV-VQ45RWM/ C-X	GMV-VQ50RWM/ C-X	GMV-VQ55RWM/ C-X	GMV-VQ60RWM/ C-X
Capacity range	8	10	12	14	18	20	22
Cooling capacity	22.4	29.0	33.5	40.0	45.0	50.4	52.0
Heating capacity	22.4	28.0	33.5	40.0	45.0	50.4	51.5
SEER	7.00	6.10	6.05	6.00	6.08	6.08	6.32
SCOP	4.58	4.37	4.14	4.24	4.23	4.15	4.15
Power supply	380-415V 3N-50/60Hz						
Max. circuit/phase current	23.0/25	24.1/25	24.1/25	24.1/25	29.3/30	47.0/50	48.0/50
Max. pipe (DU) NO.	13	16	19	23	26	33	36
Refrigerant charge volume	8.2	8.5	9.6	11.1	11.6	12.8	12.8
Sound power level(Cooling)	63	61	63	63	63	63	64
Sound power level(Heating)	80	82	84	91	91	88	88
Sound power level(Cooling)	80	84	86	87	94	87	89
High pressure gas	Φ15.0	Φ19.05	Φ19.05	Φ12.7	Φ12.7	Φ15.9	Φ15.9
Low pressure gas	Φ19.05	Φ22.2	Φ25.4	Φ25.4	Φ25.4	Φ25.4	Φ25.4
Thread (W×D×H)	1/2"×7/8×1600	3/4"×7/8×1600	1"×7/8×1600	1 1/8"×7/8×1600	1 1/2"×7/8×1600	1 3/4"×7/8×1600	1 3/4"×7/8×1600
Net weight/gross weight	1000×1300×1855	1000×1300×1855	1000×1300×1855	1400×1300×1855	1400×1300×1855	1400×1300×1855	1400×1300×1855
Loading quantity	28	28	28	22	22	22	22
40°HQ quantity	28	28	28	22	22	22	22

Note: The data is Eurovent certified.



## Mode Exchange Unit

Model	NCH-S1D	NCH-S2D	NCH-S4D	NCH-S8D
Number of branches	1	2	4	8
Max. number of connectable IDUs	8	8	8	8
Max. capacity of connectable IDUs	16	16	32	64
Power supply	V/Ph/Hz			
Power consumption	14	25	32	90
Piping connections	ODU	Φ9.52	Φ12.7	Φ15.9
	IDU	Φ19.05	Φ22.2	Φ28.6
Dimension (W×D×H)	340×388×250	340×388×250	460×388×250	784×388×250
	863×624×298	863×624×298	979×624×303	1300×624×288
Net weight/Gross weight	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)
Max setting temperature of domestic hot water	°C	55(35~55)
Floor heating capacity	KW	16
Max setting temperature of floor heating	°C	45(25~45)
Power supply	-	220-240V-1ph-50Hz 208-230V-1ph-60Hz
Heat exchanger	Type	Plate heat exchanger
	Quantity	1
Water system connection	Rated water flow	L/min
	Pressure drop	KPa
Refrigerant system connection	Thread specification	G1
	Liquid pipe	Φ9.52
Outline dimension (W×D×H)	mm	515×330×606
	kg	36



# Gree Multi VRF GMV X



GMV X-Heat Pump



GMV X-Cooling Only

## GMV X Heat Pump

- High-efficiency EVI Compressor
- High-efficiency Heat Exchanger Design
- Multiple Protection Technologies
- CAN+ Communication Technology
- Intelligent Control and Management
- Clean and Healthy Fresh Air

- Multiple Professional Noise Reduction Technologies
- Precise Oil Control for Stable Operation of Compressor
- Self-adaptive Drive Technology
- Super Long Refrigerant Pipe Design
- High Static Pressure Design



**Gree Multi VRF**  
**GMV X**

## GMV X All DC Inverter VRF

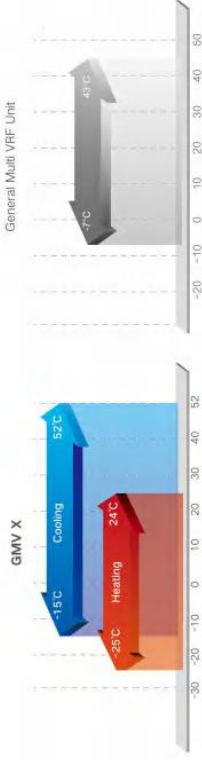
### Wide Capacity Range

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

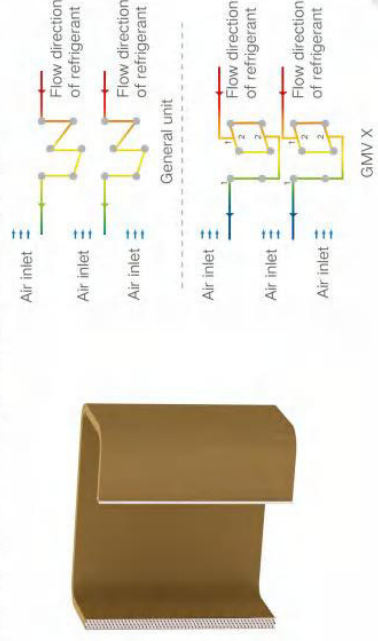
-25°C~52°C stable operation to provide users with comfortable environment in both cold and hot weather, operating ambient temperature for cooling can be as low as -15°C.



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

### 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 1-2-1 flow path design, the efficiency is higher.



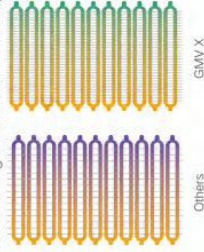
### Multi-row Small Diameter Design

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.



VS



## Comfortable and Healthy Experience

### 360° Surrounding Airflow

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



### Independent Swing Control

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

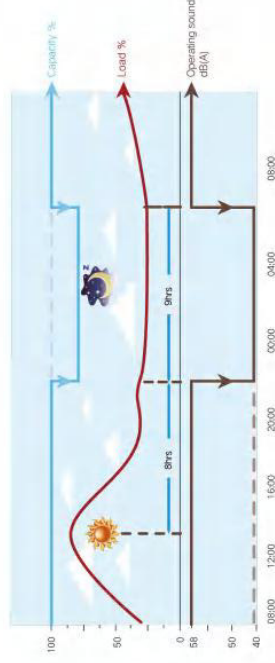


\* This function needs to be used with wired controller XE70-33HA.

## Noise Control Technology

### Quiet at Night

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.



### Quiet in Compulsion

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).





## Clean and Healthy Fresh Air

### Fresh Air System

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

Fresh Air System satisfies multiple indoor fresh air supply demands.



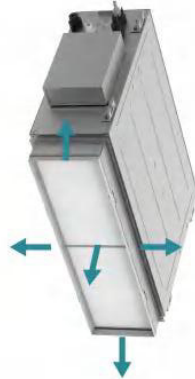
### Fresh Air Accessory

The Cassette type unit can be work with fresh air accessory to efficiently introduce 8%~10% of outdoor fresh air.



### High-efficiency Filter

The high-efficiency filter can effectively remove PM2.5. One pass purification efficiency  $\geq 90\%$ .



# ODU Specifications

Model	GMV-224MM/B-X(P)	GMV-280MM/B-X(P)	GMV-335MM/B-X(P)	GMV-390MM/B-X(P)	GMV-400MM/B-X(P)	GMV-450MM/B-X(P)
Capacity range	8	10	12	14	14	16
Cooling capacity	22.4	28.0	33.5	40.0	40.0	45.0
Heating capacity	25.0	31.5	37.5	45.0	45.0	50.0
EER	4.55	4.30	4.14	4.14	4.14	3.97
COP	5.23	5.08	4.68	4.51	4.51	4.45
Power supply	380-415V/3N - 50/60Hz					
Min. circuit/Max. fuse current	19.9/20.0	22.4/25.0	23.3/25.0	28.8/32.0	28.8/32.0	31.0/32.0
Power consumption	4.92	6.51	8.09	9.86	9.86	11.34
Heating consumption	4.78	6.20	8.19	9.98	9.98	11.24
Airflow volume	9750	10500	11100	13500	13500	15400
ESP	80	80	80	80	80	80
Max.drive IDU NO.	13	16	19	23	23	26
Sound pressure level	58	59	61	61	61	62
Refrigerant charge volume	5	5	5.2	6.5	6.5	7
Connecting pipe	φ9.52	φ9.52	φ12.7	φ12.7	φ12.7	φ12.7
Liquid	φ19.05	φ22.2	φ25.4	φ25.4	φ25.4	φ28.6
Gas	930×775×1690	930×775×1690	930×775×1690	1340×775×1690	1340×775×1690	1340×775×1690
Outline (W×D×H)	1000×830×1855	1000×830×1855	1000×830×1855	1400×830×1855	1400×830×1855	1400×830×1855
Package	210/220	210/220	215/225	280/295	280/295	280/295
Net weight/Gross weight	28	28	28	28	28	22
Loading quantity	40' GP	28	28	22	22	22
40' HQ	28	28	28	22	22	22

Model	GMV-504MM/B-X(P)	GMV-560MM/B-X(P)	GMV-615MM/B-X(P)	GMV-690MM/B-X(P)	GMV-730MM/B-X(P)
Capacity range	18	20	22	24	26
Cooling capacity	50.4	56.0	61.5	68.0	73.0
Heating capacity	56.5	63.0	69.0	76.0	82.5
EER	3.90	3.86	3.62	3.32	3.42
COP	4.17	4.13	3.89	3.60	3.78
Power supply	380-415V/3N - 50/60Hz				
Min. circuit/Max. fuse current	31.5/40.0	39.3/40.0	46.1/50.0	46.1/50.0	49.3/53.0
Power consumption	12.92	14.49	17.01	20.50	21.50
Heating consumption	13.55	15.25	17.75	21.11	21.80
Airflow volume	16000	16500	16500	16500	26000
ESP	80	80	80	80	50*
Max.drive IDU NO.	29	33	36	39	43
Sound pressure level	63	64	65	66	66
Refrigerant charge volume	7.5	7.5	7.8	7.8	11
Connecting pipe	φ15.9	φ15.9	φ15.9	φ15.9	φ19.05
Liquid	φ28.6	φ28.6	φ28.6	φ28.6	φ31.8
Gas	1340×775×1690	1340×775×1690	1340×775×1690	1340×775×1690	1760×835×1795
Outline (W×D×H)	1400×830×1855	1400×830×1855	1400×830×1855	1400×830×1855	1628×913×1986
Package	285/300	325/340	325/340	325/340	425/450
Net weight/Gross weight	22	22	22	22	13
Loading quantity	40' GP	22	22	22	22
40' HQ	22	22	22	22	13

Notes:

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

# ODU Specifications

# ODU Combination Lineup

Model	GMV-785MM/B-X(P)	GMV-850MM/B-X(P)	GMV-900MM/B-X(P)	GMV-952MM/B-X(P)	GMV-1010MM/B-X(P)
Capacity range	28	30	32	34	36
Cooling capacity	78.5	85.0	90.0	95.2	101.0
Heating capacity	87.5	95.0	100.0	106.0	112.0
EER	3.20	3.20	3.14	3.08	3.01
COP	3.60	3.52	3.39	3.35	3.27
Power supply	380-415V 3N - 50/60Hz				
Min. circuit/Max. fuse current	52.2/63.0	57.2/63.0	58.7/63.0	60.1/63.0	61.8/63.0
Power consumption	Cooling 24.00	26.60	28.70	30.90	33.60
Heating	24.30	27.00	29.50	31.60	34.20
Airflow volume	26000	26000	26000	28000	28000
ESP	50*	50*	50*	50*	50*
Max. IDU NO.	46	50	53	56	59
Sound pressure level	67	67	68	68	69
Refrigerant charge volume	11	11	12	12	12
Connecting pipe	Liquid φ19.05	φ19.05	φ19.05	φ19.05	φ19.05
Gas	φ31.8	φ31.8	φ31.8	φ31.8	φ38.1
Dimension (W×D×H)	Outline	1760×835×1795	1760×835×1795	1760×835×1795	1760×835×1795
Package	1828×913×1986	1828×913×1986	1828×913×1986	1828×913×1986	1828×913×1986
Net weight/Gross weight	425/450	425/450	455/480	455/480	455/480
Loading quantity	40' GP 13	13	13	13	13
40' HQ	13	13	13	13	13

### Notes:

- Cooling Capacity: Indoor temp.: 27°C DB, 19°C WB, Outdoor temp.: 35°C DB, Equivalent piping length: 7.5 m, Level difference: 0 m.
- Heating Capacity: Indoor temp.: 20°C DB, Outdoor temp.: 7°C DB, 6°C WB, Equivalent piping length: 7.5 m, Level difference: 0 m.
- 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.
- For the model of GMV-730-1010MM/B-X(P), customized engineering service is needed if the outdoor static pressure is more than 0Pa.

HP	Model	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36
8	GMV-224MM/B-X(P)	●														
10	GMV-280MM/B-X(P)		●													
12	GMV-335MM/B-X(P)			●												
14	GMV-400MM/B-X(P)				●											
16	GMV-450MM/B-X(P)					●										
18	GMV-504MM/B-X(P)						●									
20	GMV-560MM/B-X(P)							●								
22	GMV-615MM/B-X(P)								●							
24	GMV-680MM/B-X(P)									●						
26	GMV-730MM/B-X(P)										●					
28	GMV-785MM/B-X(P)											●				
30	GMV-850MM/B-X(P)												●			
32	GMV-900MM/B-X(P)													●		
34	GMV-952MM/B-X(P)														●	
36	GMV-1010MM/B-X(P)															●
38	GMV-1065MM/B-X(P)						●									
40	GMV-1119MM/B-X(P)						●									
42	GMV-1184MM/B-X(P)						●									
44	GMV-1230MM/B-X(P)						●									
46	GMV-1295MM/B-X(P)							●								
48	GMV-1360MM/B-X(P)								●							
50	GMV-1410MM/B-X(P)									●						
52	GMV-1465MM/B-X(P)										●					
54	GMV-1530MM/B-X(P)											●				
56	GMV-1585MM/B-X(P)												●			
58	GMV-1635MM/B-X(P)													●		
60	GMV-1700MM/B-X(P)														●	
62	GMV-1750MM/B-X(P)															●
64	GMV-1795MM/B-X(P)															●
66	GMV-1860MM/B-X(P)															●
68	GMV-1910MM/B-X(P)															●
70	GMV-1962MM/B-X(P)															●
72	GMV-2020MM/B-X(P)															●
74	GMV-2080MM/B-X(P)															●
76	GMV-2145MM/B-X(P)															●
78	GMV-2210MM/B-X(P)															●
80	GMV-2240MM/B-X(P)															●
82	GMV-2310MM/B-X(P)															●
84	GMV-2370MM/B-X(P)															●
86	GMV-2430MM/B-X(P)															●
88	GMV-2480MM/B-X(P)															●
90	GMV-2532MM/B-X(P)															●
92	GMV-2584MM/B-X(P)															●
94	GMV-2642MM/B-X(P)															●
96	GMV-2700MM/B-X(P)															●
98	GMV-2754MM/B-X(P)															●
100	GMV-2812MM/B-X(P)															●
102	GMV-2870MM/B-X(P)															●
104	GMV-2920MM/B-X(P)															●
106	GMV-2972MM/B-X(P)															●
108	GMV-3030MM/B-X(P)															●
110	GMV-3110MM/B-X(P)															●
112	GMV-3160MM/B-X(P)															●
114	GMV-3195MM/B-X(P)															●
116	GMV-3250MM/B-X(P)															●
118	GMV-3315MM/B-X(P)															●
120	GMV-3390MM/B-X(P)															●
122	GMV-3430MM/B-X(P)															●
124	GMV-3485MM/B-X(P)															●
126	GMV-3550MM/B-X(P)															●
128	GMV-3600MM/B-X(P)															●

# ODU Combination Lineup

HP	Model	Power supply	Capacity		Power input		Dimension(W × D × H)	Airflow volume	Connecting pipe		Microcircuit current	Max. line current	Net weight	
			Coating	Heating	Coating	Heating			Liquid	Gas				
			kW	kW	kW	kW	mm	m <sup>3</sup> /h	Pa	mm	mm	A	kg	
38	GMV-1065WMB-XP	380-415V 3N	106.5	119.0	28.35	29.99	(1340 × 775 × 1690) × 2	15400 × 16500	50	Φ19.05	Φ38.1	31.0 ± 46.1	32 × 50	280 × 329
40	GMV-1119WMB-XP	380-415V 3N	111.9	126.5	29.93	31.30	(1340 × 775 × 1690) × 2	16000 × 16500	50	Φ19.05	Φ38.1	31.6 ± 46.1	40 × 50	285 × 326
42	GMV-1184WMB-XP	380-415V 3N	118.4	132.6	33.42	34.66	(1340 × 775 × 1690) × 2	16000 × 16500	50	Φ19.05	Φ38.1	31.6 ± 46.1	40 × 50	295 × 326
44	GMV-1230WMB-XP	380-415V 3N	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	329 × 2
46	GMV-1250WMB-XP	380-415V 3N	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	329 × 2
48	GMV-1300WMB-XP	380-415V 3N	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	329 × 2
50	GMV-1410WMB-XP	380-415V 3N	141.0	169.0	41.09	42.26	(1340 × 775 × 1690) × 2 (11760 × 835 × 1795)	16500 × 26000	50	Φ19.05	Φ41.3	39.3 ± 57.2	40 × 63	325 × 425
52	GMV-1465WMB-XP	380-415V 3N	146.5	164.0	43.61	44.76	(1340 × 775 × 1690) × 2 (11760 × 835 × 1795)	16500 × 26000	50	Φ19.05	Φ41.3	46.1 ± 57.2	50 × 63	325 × 425
54	GMV-1550WMB-XP	380-415V 3N	153.0	171.0	47.0	48.11	(1340 × 775 × 1690) × 2 (11760 × 835 × 1795)	16500 × 26000	50	Φ19.05	Φ41.3	46.1 ± 57.2	50 × 63	325 × 425
56	GMV-1580WMB-XP	380-415V 3N	159.0	176.0	49.20	50.61	(1340 × 775 × 1690) × 2 (11760 × 835 × 1795)	16500 × 26000	50	Φ19.05	Φ41.3	46.1 ± 58.7	50 × 63	325 × 425
58	GMV-1635WMB-XP	380-415V 3N	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-1700WMB-XP	380-415V 3N	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-1750WMB-XP	380-415V 3N	175.0	195.0	55.30	56.50	(1760 × 835 × 1795) × 2	26000 × 26000	50	Φ19.05	Φ41.3	57.2 ± 58.7	63 × 63	425 × 465
64	GMV-1795WMB-XP	380-415V 3N	179.5	199.5	57.00	58.50	(1760 × 835 × 1795) × 2	26000 × 26000	50	Φ19.05	Φ41.3	52.2 ± 61.8	63 × 63	425 × 465
66	GMV-1800WMB-XP	380-415V 3N	186.0	207.0	60.20	61.20	(1760 × 835 × 1795) × 2	26000 × 26000	50	Φ19.05	Φ41.3	57.2 ± 61.8	63 × 63	425 × 465
68	GMV-1910WMB-XP	380-415V 3N	191.0	212.0	62.30	63.70	(1760 × 835 × 1795) × 2	28000 × 2	50	Φ22.2	Φ44.5	83.7 ± 61.8	63 × 63	485 × 2
70	GMV-1962WMB-XP	380-415V 3N	196.2	218.0	64.50	66.80	(1760 × 835 × 1795) × 2	28000 × 2	50	Φ22.2	Φ44.5	80.1 ± 61.8	63 × 63	485 × 2
72	GMV-2020WMB-XP	380-415V 3N	202.0	224.0	67.20	68.40	(1760 × 835 × 1795) × 2	28000 × 2	50	Φ22.2	Φ44.5	81.8 ± 61.8	63 × 63	485 × 2
74	GMV-2080WMB-XP	380-415V 3N	208.0	235.0	69.60	70.90	(1340 × 775 × 1690) × 2 (11760 × 835 × 1795)	16500 × 2 × 26000	50	Φ22.2	Φ44.5	46.1 ± 46.1 +57.2	50 × 50 ± 63	325 × 2 × 425
76	GMV-2165WMB-XP	380-415V 3N	214.5	240.0	64.11	66.86	(1340 × 775 × 1690) × 2 (11760 × 835 × 1795)	16500 × 2 × 26000	50	Φ22.2	Φ44.5	46.1 ± 46.1 +57.2	50 × 50 ± 63	325 × 2 × 425
78	GMV-2210WMB-XP	380-415V 3N	221.0	247.0	67.60	69.22	(1340 × 775 × 1690) × 2 (11760 × 835 × 1795)	16500 × 2 × 26000	50	Φ22.2	Φ44.5	46.1 ± 46.1 +57.2	50 × 50 ± 63	325 × 2 × 425
80	GMV-2240WMB-XP	380-415V 3N	224.0	250.0	67.62	69.70	(1340 × 775 × 1690) × 2 (11760 × 835 × 1795)	16500 × 2 × 28000	50	Φ22.2	Φ44.5	46.1 ± 46.1 +57.2	50 × 50 ± 63	325 × 2 × 455
82	GMV-2312WMB-XP	380-415V 3N	231.2	258.0	71.90	73.82	(1340 × 775 × 1690) × 2 (11760 × 835 × 1795)	16500 × 2 × 28000	50	Φ22.2	Φ44.5	46.1 ± 46.1 +50.1	50 × 50 ± 63	325 × 2 × 465

# ODU Combination Specifications

HP	Model	Power supply	Capacity		Power input		Dimension(W × D × H)	Airflow volume	Connecting pipe		Microcircuit current	Max. line current	Net weight	
			Coating	Heating	Coating	Heating			Liquid	Gas				
			kW	kW	kW	kW	mm	m <sup>3</sup> /h	Pa	mm	mm	A	kg	
84	GMV-2370WMB-XP	380-415V 3N	237.0	264.0	74.80	76.42	(1340 × 775 × 1690) × 2 (11760 × 835 × 1795)	16500 × 2 × 28000	50	Φ22.2	Φ44.5	46.1 ± 46.1 +61.8	50 × 50 ± 63	325 × 2 × 465
86	GMV-2430WMB-XP	380-415V 3N	243.0	271.0	76.80	77.61	(1340 × 775 × 1690) × 2 (11760 × 835 × 1795) × 2	16500 × 26000 +28000	50	Φ22.2	Φ44.5	46.1 ± 45.2 +58.7	50 × 63 ± 63	325 × 425 × 465
88	GMV-2480WMB-XP	380-415V 3N	248.0	276.0	77.90	80.11	(1340 × 775 × 1690) × 2 (11760 × 835 × 1795) × 2	16500 × 28000 × 2	50	Φ22.2	Φ44.5	46.1 ± 46.1 +58.7	50 × 63 ± 63	325 × 465 × 2
90	GMV-2520WMB-XP	380-415V 3N	253.2	282.0	80.10	82.21	(1340 × 775 × 1690) × 2 (11760 × 835 × 1795) × 2	16500 × 28000 × 2	50	Φ22.2	Φ44.5	46.1 ± 46.1 +60.1	50 × 63 ± 63	325 × 465 × 2
92	GMV-2584WMB-XP	380-415V 3N	258.4	288.0	82.30	84.31	(1340 × 775 × 1690) × 2 (11760 × 835 × 1795) × 2	16500 × 28000 × 2	50	Φ22.2	Φ44.5	46.1 ± 60.1	50 × 63 ± 63	325 × 465 × 2
94	GMV-2642WMB-XP	380-415V 3N	264.2	294.0	85.00	86.91	(1340 × 775 × 1690) × 2 (11760 × 835 × 1795) × 2	16500 × 28000 × 2	50	Φ22.2	Φ44.5	46.1 ± 60.1 +61.8	50 × 63 ± 63	325 × 465 × 2
96	GMV-2700WMB-XP	380-415V 3N	270.0	300.0	87.70	89.51	(1340 × 775 × 1690) × 2 (11760 × 835 × 1795) × 2	16500 × 28000 × 2	50	Φ22.2	Φ44.5	46.1 ± 60.1 +61.8	50 × 63 ± 63	325 × 465 × 2
98	GMV-2794WMB-XP	380-415V 3N	275.4	307.0	88.40	90.20	(1340 × 775 × 1690) × 2 (11760 × 835 × 1795) × 2	26000 × 28000 × 2	50	Φ25.4	Φ51.4	57.2 ± 60.1 ± 60.1	63 × 63 ± 63	425 × 465 × 2
100	GMV-2812WMB-XP	380-415V 3N	281.2	313.0	91.10	92.86	(1760 × 835 × 1795) × 3	20000 × 28000 × 2	50	Φ25.4	Φ51.4	57.2 ± 61.8 ± 61.8	63 × 63 ± 63	425 × 465 × 2
102	GMV-2870WMB-XP	380-415V 3N	287.0	319.0	93.80	95.60	(1760 × 835 × 1795) × 3	26000 × 28000 × 2	50	Φ25.4	Φ51.4	57.2 ± 61.8 ± 61.8	63 × 63 ± 63	425 × 465 × 2
104	GMV-2920WMB-XP	380-415V 3N	292.0	324.0	95.90	97.90	(1760 × 835 × 1795) × 3	28000 × 3	50	Φ25.4	Φ51.4	56.7 ± 61.8 ± 61.8	63 × 63 ± 63	465 × 3
106	GMV-2972WMB-XP	380-415V 3N	297.2	330.0	98.10	100.30	(1760 × 835 × 1795) × 3	28000 × 3	50	Φ25.4	Φ51.4	60.1 ± 61.8 ± 61.8	63 × 63 ± 63	465 × 3
108	GMV-3030WMB-XP	380-415V 3N	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	485 × 3
110	GMV-3110WMB-XP	380-415V 3N	311.0	347.0	96.30	98.72	(1340 × 775 × 1690) × 2 (11760 × 835 × 1795) × 2	16500 × 2 × 20000 × 28000	50	Φ25.4	Φ51.4	46.1 ± 46.1 +57.2 ± 58.7	50 × 60 +53 × 63	325 × 2 +425 × 465
112	GMV-3160WMB-XP	380-415V 3N	316.0	352.0	98.40	101.22	(1340 × 775 × 1690) × 2 (11760 × 835 × 1795) × 2	16500 × 2 × 28000 × 2	50	Φ25.4	Φ51.4	46.1 ± 46.1 +57.2 ± 58.7	50 × 60 +53 × 63	325 × 2 +465 × 2
114	GMV-3195WMB-XP	380-415V 3N	319.5	356.0	98.70	101.40	(1340 × 775 × 1690) × 2 (11760 × 835 × 1795) × 2	16500 × 2 × 28000 × 2	50	Φ25.4	Φ51.4	39.3 ± 46.1 +61.8 ± 61.8	40 × 50 +53 × 63	325 × 2 +465 × 2
116	GMV-3250WMB-XP	380-415V 3N	325.0	362.0	101.22	103.90	(1340 × 775 × 1690) × 2 (11760 × 835 × 1795) × 2	16500 × 2 × 28000 × 2	50	Φ25.4	Φ51.4	46.1 ± 46.1 +61.8 ± 61.8	50 × 50 +53 × 63	325 × 2 +465 × 2
118	GMV-3315WMB-XP	380-415V 3N	331.5	369.0	104.71	107.26	(1340 × 775 × 1690) × 2 (11760 × 835 × 1795) × 2	16500 × 2 × 28000 × 2	50	Φ25.4	Φ51.4	46.1 ± 46.1 +61.8 ± 61.8	50 × 60 +53 × 63	325 × 2 +465 × 2
120	GMV-3380WMB-XP	380-415V 3N	338.0	376.0	108.20	110.62	(1340 × 775 × 1690) × 2 (11760 × 835 × 1795) × 2	16500 × 2 × 28000 × 2	50	Φ25.4	Φ51.4	46.1 ± 46.1 +61.8 ± 61.8	50 × 60 +53 × 63	325 × 2 +465 × 2
122	GMV-3430WMB-XP	380-415V 3N	343.0	382.5	107.60	110.30	(1760 × 835 × 1795) × 4	26000 × 28000 × 3	50	Φ25.4	Φ51.4	46.1 ± 46.1 +57.2 ± 58.7	63 × 63 +53 × 63	425 × 465 × 3
124	GMV-3485WMB-XP	380-415V 3N	348.5	387.5	110.10	112.80	(1760 × 835 × 1795) × 4	26000 × 28000 × 3	50	Φ25.4	Φ51.4	52.2 ± 58.7 +61.8 ± 61.8	63 × 63 +53 × 63	425 × 465 × 3
126	GMV-3550WMB-XP	380-415V 3N	355.0	395.0	112.70	115.50	(1760 × 835 × 1795) × 4	26000 × 28000 × 3	50	Φ25.4	Φ51.4	57.2 ± 58.7 +61.8 ± 61.8	63 × 63 +53 × 63	425 × 465 × 3
128	GMV-3600WMB-XP	380-415V 3N	360.0	400.0	114.80	116.00	(1760 × 835 × 1795) × 4	28000 × 4	50	Φ25.4	Φ51.4	58.7 ± 58.7 +61.8 ± 61.8	63 × 63 +53 × 63	465 × 4

# GREE Multi VRF GMV X

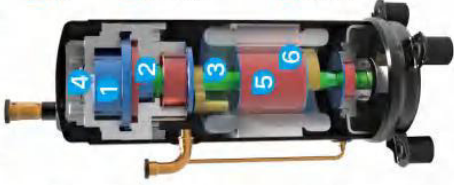


## Efficient Performance

### New High-efficiency Scroll Compressor

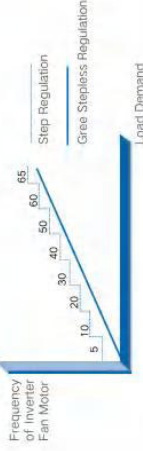
The efficient scroll compressor adopts superior high-pressure cavity design, without inhalation and overheating loss, and can achieve 0-390Hz speed adjustment.

- 1 High-strength asymmetric line**  
Adopt the high-strength asymmetric line to effectively reduce the loss of air inhalation and air exhaust for improving the volumetric efficiency.
- 2 Floating back pressure step-type axial sealing**  
Automatically adjust the seal with the working conditions, realizing efficient compression under the whole working conditions.
- 3 Low-modal rotor bearing support structure**  
Low noise operation under 1.0-1.30rps wide rotating speed range
- 4 Exhaust pulse inhibitory structure**  
Reduce the noise for quiet operation.
- 5 High convex ratio design**  
The new high-efficiency magnetic reluctance motor, with multi-layer magnetic barrier structure, is stronger than ordinary DC inverter motor, with strong magnetic ability and high efficiency.
- 6 High-reliable permanent magnet**  
It adopts permanent magnet with positive coercivity coefficient. Its resistance to demagnetization increases with the temperature rising. It's suitable for high temperature and high pressure environment.



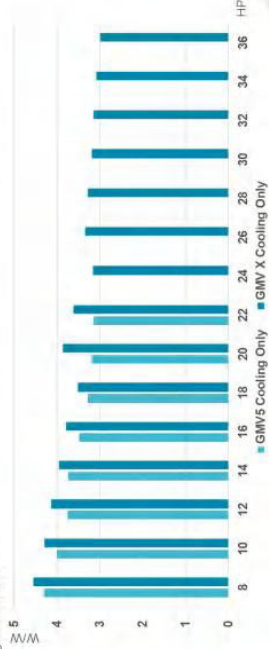
### Sensorless DC Inverter Fan Motor

Adopt the DC inverter motor with high back electromotive force to realize stepless speed adjustment within 5-65Hz, and the precision is 1Hz, with low operating current, low motor input power, and high efficiency.



### High Efficiency and Energy Saving

With the new generation of high-efficiency system design, EER has been increased by 10% over the previous generation.



## 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

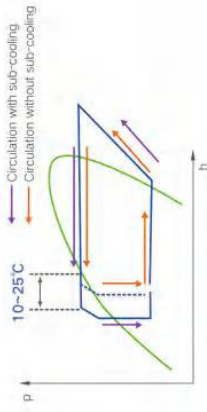
Single pipe of refrigerant pipeline adopts  $\varnothing 7\text{mm}$  and 3-row design, which can reduce the flowing resistance of refrigerant inside the pipe and effectively increase the heat exchange area of refrigerant, so as to optimize and improve the heat exchange efficiency.



\*Note: Applicable for some models.

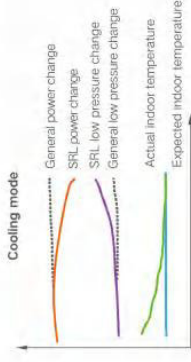
### Enhanced Sub-cooling Design

With maximizing sub-cooling technology, maximum sub-cooling reaches  $25^\circ\text{C}$ , 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

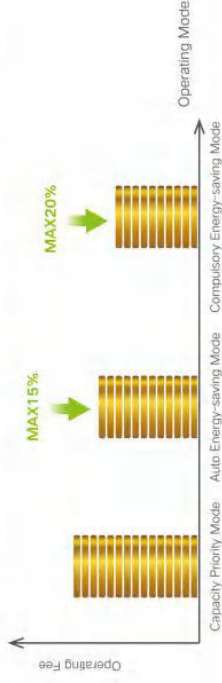
When the power supply is sufficient, it will satisfy the using capacity demand in priority. This mode is default mode.

### 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.



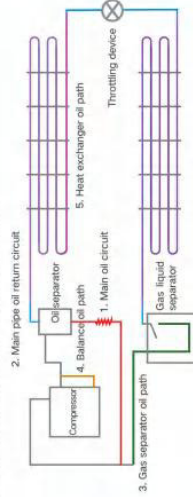
## High Reliability Refrigerant Cooling Technology

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.

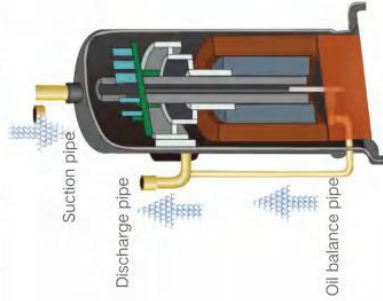


### Reliable Oil Circuit Control Technology

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.

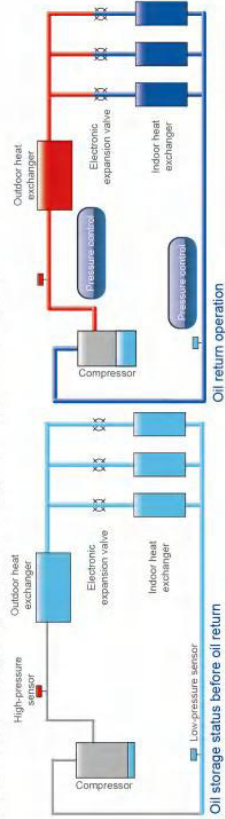
#### Oil Balance Control Technology

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.



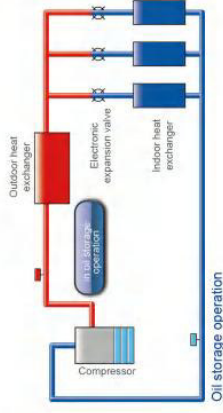
#### New Oil Return Control

Greer 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.



#### Specialized Compressor Oil Storage Control

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



8-24HP 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



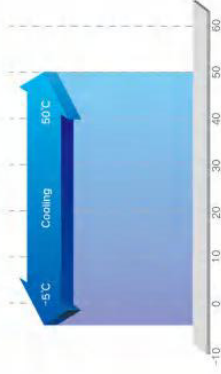
26-36HP combination models: 37

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



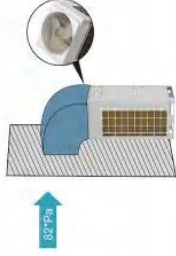
### Wider Operating Range

Outdoor operating temperature range is improved to -5°C ~50 °C



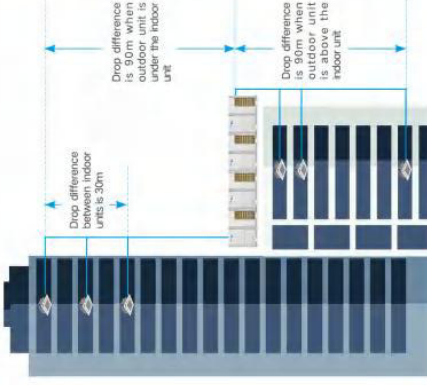
### Super-high Static Pressure Design

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.

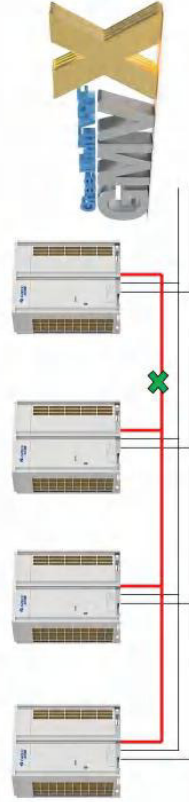
### Smaller Footprint, Saving Installation Space

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



### 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.



### 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.



# ODU Specifications

# ODU Combination Lineup

Model	GMVL-224WM/A-X(P)	GMVL-280WM/A-X(P)	GMVL-335WM/A-X(P)	GMVL-400WM/A-X(P)	GMVL-450WM/A-X(P)
Capacity range	8	10	12	14	16
Cooling capacity	22.4	28.0	33.5	40.0	45.0
EER	4.55	4.30	4.14	3.95	3.79
Power supply	16.1/20.0	20.9/25.0	24.0/25.0	28.8/32.0	33.2/40.0
Min. circuit/Max. fuse current	A	380-415V 3N - 50/60Hz	380-415V 3N - 50/60Hz	380-415V 3N - 50/60Hz	380-415V 3N - 50/60Hz
Power consumption	4.92	6.51	8.09	10.12	11.88
Airflow volume	11,400	11,400	11,400	14,000	14,000
ESP	82	82	82	82	82
Max. drive IDU NO.	13	16	19	23	26
Sound pressure level	58	59	61	61	62
Refrigerant charge volume	5.9	6.7	6.7	8.7	8.7
Connecting pipe	φ9.52	φ9.52	φ12.7	φ12.7	φ12.7
Gas	φ19.05	φ22.2	φ25.4	φ25.4	φ25.4
Outline	930 × 765 × 1605	930 × 765 × 1605	930 × 765 × 1605	1340 × 765 × 1605	1340 × 765 × 1605
Dimension (W × D × H)	1010 × 840 × 1775	1010 × 840 × 1775	1010 × 840 × 1775	1420 × 840 × 1775	1420 × 840 × 1775
Net weight/Gross weight	215/225	215/225	215/225	275/290	275/290
Loading quantity	28	28	28	22	22
40' HQ quantity	28	28	28	22	22

Model	GMVL-504WM/A-X(P)	GMVL-560WM/A-X(P)	GMVL-615WM/A-X(P)	GMVL-680WM/A-X(P)	GMVL-730WM/A-X(P)
Capacity range	18	20	22	24	26
Cooling capacity	50.4	56.0	61.5	68.0	73.0
EER	3.52	3.86	3.62	3.16	3.35
Power supply	35.1/40.0	39.3/50.0	42.9/50.0	46.2/63.0	53.6/63.0
Min. circuit/Max. fuse current	A	380-415V 3N - 50/60Hz	380-415V 3N - 50/60Hz	380-415V 3N - 50/60Hz	380-415V 3N - 50/60Hz
Power consumption	14.30	14.49	17.01	21.53	21.79
Airflow volume	16,000	16,000	16,000	16,000	26,000
ESP	82	82	33	30*	33
Max. drive IDU NO.	29	33	36	39	43
Sound pressure level	63	64	65	66	66
Refrigerant charge volume	8.7	14.3	14.3	14.3	11.0
Connecting pipe	φ15.9	φ15.9	φ15.9	φ15.9	φ19.05
Gas	φ28.6	φ28.6	φ28.6	φ28.6	φ31.8
Outline	1340 × 765 × 1605	1340 × 765 × 1740	1340 × 765 × 1740	1340 × 765 × 1740	2200 × 880 × 1675
Dimension (W × D × H)	1420 × 840 × 1775	1420 × 840 × 1910	1420 × 840 × 1910	1420 × 840 × 1910	2267 × 952 × 1867
Net weight/Gross weight	275/290	375/390	375/390	375/390	490/520
Loading quantity	22	22	22	22	12
40' HQ quantity	22	22	22	22	12

Model	GMVL-785WM/A-X(P)	GMVL-850WM/A-X(P)	GMVL-900WM/A-X(P)	GMVL-950WM/A-X(P)	GMVL-1010WM/A-X(P)
Capacity range	28	30	32	34	36
Cooling capacity	78.5	85.0	90.0	95.2	101.0
EER	3.28	3.20	3.15	3.08	3.00
Power supply	55.4/65.0	55.4/63.0	71.5/80.0	71.5/80.0	71.5/80.0
Min. circuit/Max. fuse current	A	380-415V 3N - 50/60Hz	380-415V 3N - 50/60Hz	380-415V 3N - 50/60Hz	380-415V 3N - 50/60Hz
Power consumption	23.93	26.56	28.57	30.91	33.67
Airflow volume	26,000	26,000	26,000	26,000	26,000
ESP	30*	30*	30*	30*	30*
Max. drive IDU NO.	46	50	53	56	59
Sound pressure level	67	67	68	68	69
Refrigerant charge volume	11.0	11.0	11.0	14.0	14.0
Connecting pipe	φ19.05	φ19.05	φ19.05	φ19.05	φ19.05
Gas	φ31.8	φ31.8	φ31.8	φ31.8	φ38.1
Outline	2200 × 880 × 1675	2200 × 880 × 1675	2200 × 880 × 1675	2200 × 880 × 1675	2200 × 880 × 1675
Dimension (W × D × H)	2267 × 952 × 1867	2267 × 952 × 1867	2267 × 952 × 1867	2267 × 952 × 1867	2267 × 952 × 1867
Net weight/Gross weight	490/520	490/520	520/550	520/550	520/550
Loading quantity	12	12	12	12	12
40' HQ quantity	12	12	12	12	12

Notes:  
 1. Cooling Capacity: Indoor temp. 27°C DB, Outdoor temp. 35°C DB, Equivalent piping length: 7.5 m, Level difference: 0 m.  
 2. The Power consumption is the maximum value. The Power consumption is measured at a position that the unit is in semi-idle condition.  
 3. For the model of GMVL-730WM/A-X(P), customized engineering service is needed if the outdoor static pressure is more than 0Pa.

## GMVL-680WM/A-X(P) and below capacity model combination methods

HP	Model	GMVL-260WM/A-X(P)	GMVL-280WM/A-X(P)	GMVL-335WM/A-X(P)	GMVL-400WM/A-X(P)	GMVL-450WM/A-X(P)	GMVL-504WM/A-X(P)	GMVL-560WM/A-X(P)	GMVL-615WM/A-X(P)	GMVL-680WM/A-X(P)	GMVL-730WM/A-X(P)	GMVL-785WM/A-X(P)	GMVL-850WM/A-X(P)	GMVL-900WM/A-X(P)	GMVL-950WM/A-X(P)	GMVL-1010WM/A-X(P)
26	GMVL-785WM/A-X(P)															
28	GMVL-785WM/A-X(P)															
30	GMVL-850WM/A-X(P)															
32	GMVL-850WM/A-X(P)															
34	GMVL-900WM/A-X(P)															
36	GMVL-950WM/A-X(P)															
40	GMVL-1100WM/A-X(P)															
42	GMVL-1100WM/A-X(P)															
44	GMVL-1200WM/A-X(P)															
46	GMVL-1200WM/A-X(P)															
48	GMVL-1300WM/A-X(P)															
50	GMVL-1300WM/A-X(P)															
52	GMVL-1400WM/A-X(P)															
54	GMVL-1400WM/A-X(P)															
56	GMVL-1500WM/A-X(P)															
58	GMVL-1500WM/A-X(P)															
60	GMVL-1600WM/A-X(P)															
62	GMVL-1700WM/A-X(P)															
64	GMVL-1700WM/A-X(P)															
66	GMVL-1800WM/A-X(P)															
68	GMVL-1800WM/A-X(P)															
70	GMVL-1900WM/A-X(P)															
72	GMVL-2000WM/A-X(P)															
74	GMVL-2000WM/A-X(P)															
76	GMVL-2100WM/A-X(P)															
78	GMVL-2100WM/A-X(P)															
80	GMVL-2200WM/A-X(P)															
82	GMVL-2200WM/A-X(P)															
84	GMVL-2300WM/A-X(P)															
86	GMVL-2400WM/A-X(P)															
88	GMVL-2400WM/A-X(P)															
90	GMVL-2500WM/A-X(P)															
92	GMVL-2500WM/A-X(P)															
94	GMVL-2700WM/A-X(P)															
96	GMVL-2700WM/A-X(P)															

## GMVL-730WM/A-X(P) and above capacity model combination methods

HP	Model	GMVL-730WM/A-X(P)	GMVL-785WM/A-X(P)	GMVL-850WM/A-X(P)	GMVL-900WM/A-X(P)	GMVL-950WM/A-X(P)	GMVL-1010WM/A-X(P)
52	GMVL-1800WM/A-X(P)						
54	GMVL-1800WM/A-X(P)						
56	GMVL-1800WM/A-X(P)						
58	GMVL-1800WM/A-X(P)						
60	GMVL-1800WM/A-X(P)						
62	GMVL-1800WM/A-X(P)						
64	GMVL-1800WM/A-X(P)						
66	GMVL-1800WM/A-X(P)						
68	GMVL-1800WM/A-X(P)						
70	GMVL-1800WM/A-X(P)						
72	GMVL-2000WM/A-X(P)						
74	GMVL-2100WM/A-X(P)						
76	GMVL-2100WM/A-X(P)						
78	GMVL-2100WM/A-X(P)						
80	GMVL-2100WM/A-X(P)						
82	GMVL-2300WM/A-X(P)						
84	GMVL-2300WM/A-X(P)						
86	GMVL-2400WM/A-X(P)						
88	GMVL-2400WM/A-X(P)						
90	GMVL-2500WM/A-X(P)						
92	GMVL-2500WM/A-X(P)						
94	GMVL-2700WM/A-X(P)						
96	GMVL-2700WM/A-X(P)						
98	GMVL-2800WM/A-X(P)						
100	GMVL-2800WM/A-X(P)						
102	GMVL-2800WM/A-X(P)						
104	GMVL-2800WM/A-X(P)						
106	GMVL-2800WM/A-X(P)						
108	GMVL-3000WM/A-X(P)						
110	GMVL-3000WM/A-X(P)						
112	GMVL-3100WM/A-X(P)						
114	GMVL-3200WM/A-X(P)						
116	GMVL-3350WM/A-X(P)						
118	GMVL-3350WM/A-X(P)						
120	GMVL-3500WM/A-X(P)						
122	GMVL-3500WM/A-X(P)						
124	GMVL-3400WM/A-X(P)						
126	GMVL-3500WM/A-X(P)						
128	GMVL-3500WM/A-X(P)						



# ODU Combination Specifications

**GMVL-680WM/A-X(P) and below capacity combination models**

HP	Model	Power source kW	Capacity kW	Power input kW	Dimensions (W×D×H) mm	Allow volume m <sup>3</sup> h	ESP	Connecting pipe Liquid Dia mm	Microcent current A	Max. line current A	Net weight kg	Net weight kg
25	GMVL-735WMA-X(P)	33.30	59.0	765 × 1655 × 2	11400 × 14000	82	φ19.05	340 × 28.8	25-30	83.163	215 × 275	215 × 275
26	GMVL-785WMA-X(P)	78.5	32.40	830 × 765 × 1655 × 2	11400 × 14000	82	φ19.05	340 × 28.8	25-30	83.163	215 × 275	215 × 275
27	GMVL-835WMA-X(P)	83.9	33.40	880 × 765 × 1655 × 2	11400 × 14000	82	φ19.05	340 × 28.8	25-30	83.163	215 × 275	215 × 275
32	GMVL-995WMA-X(P)	89.5	35.70	930 × 765 × 1655 × 2	11400 × 14000	82	φ19.05	340 × 28.8	25-30	83.163	215 × 275	215 × 275
34	GMVL-105WMA-X(P)	96.0	37.80	980 × 765 × 1655 × 2	11400 × 14000	82	φ19.05	340 × 28.8	25-30	83.163	215 × 275	215 × 275
35	GMVL-105WMA-X(P)	101.5	40.50	1340 × 765 × 1655 × 2	14000 × 16000	82	φ19.05	340 × 28.8	25-30	83.163	275 × 275	275 × 275
38	GMVL-105WMA-X(P)	106.4	41.60	1340 × 765 × 1655 × 2	14000 × 16000	82	φ19.05	340 × 28.8	25-30	83.163	275 × 275	275 × 275
40	GMVL-1135WMA-X(P)	111.9	43.60	1340 × 765 × 1655 × 2	14000 × 16000	82	φ19.05	340 × 28.8	25-30	83.163	275 × 275	275 × 275
42	GMVL-1235WMA-X(P)	117.5	46.00	1340 × 765 × 1655 × 2	16000 × 2	82	φ19.05	340 × 28.8	25-30	83.163	375 × 2	375 × 2
44	GMVL-1235WMA-X(P)	123.0	48.00	1340 × 765 × 1655 × 2	16000 × 2	82	φ19.05	340 × 28.8	25-30	83.163	375 × 2	375 × 2
46	GMVL-1395WMA-X(P)	129.5	51.60	1340 × 765 × 1655 × 2	16000 × 2	82	φ19.05	340 × 28.8	25-30	83.163	375 × 2	375 × 2
48	GMVL-1395WMA-X(P)	136.0	55.00	1340 × 765 × 1655 × 2	16000 × 2	82	φ19.05	340 × 28.8	25-30	83.163	375 × 2	375 × 2
50	GMVL-1395WMA-X(P)	139.9	55.40	1340 × 765 × 1655 × 2	16000 × 2	82	φ19.05	340 × 28.8	25-30	83.163	375 × 2	375 × 2
52	GMVL-1455WMA-X(P)	146.1	57.70	1340 × 765 × 1655 × 2	16000 × 2	82	φ19.05	340 × 28.8	25-30	83.163	375 × 2	375 × 2
54	GMVL-1515WMA-X(P)	161.0	59.70	1340 × 765 × 1655 × 2	16000 × 2	82	φ19.05	340 × 28.8	25-30	83.163	375 × 2	375 × 2
56	GMVL-1555WMA-X(P)	166.5	61.60	1340 × 765 × 1655 × 2	16000 × 2	82	φ19.05	340 × 28.8	25-30	83.163	375 × 2	375 × 2
58	GMVL-1625WMA-X(P)	162.3	63.20	1340 × 765 × 1655 × 2	16000 × 2	82	φ19.05	340 × 28.8	25-30	83.163	375 × 2	375 × 2
60	GMVL-1625WMA-X(P)	167.9	65.60	1340 × 765 × 1655 × 2	16000 × 2	82	φ19.05	340 × 28.8	25-30	83.163	375 × 2	375 × 2
62	GMVL-1735WMA-X(P)	173.4	67.60	1340 × 765 × 1655 × 2	16000 × 2	82	φ19.05	340 × 28.8	25-30	83.163	375 × 2	375 × 2
64	GMVL-1735WMA-X(P)	184.6	70.00	1340 × 765 × 1655 × 2	16000 × 3	82	φ19.05	340 × 28.8	25-30	83.163	375 × 3	375 × 3
66	GMVL-1835WMA-X(P)	191.0	75.50	1340 × 765 × 1655 × 2	16000 × 3	82	φ22.2	429 × 42.9	30-40	83.163	375 × 3	375 × 3
68	GMVL-1935WMA-X(P)	197.5	79.00	1340 × 765 × 1655 × 2	16000 × 3	82	φ22.2	429 × 42.9	30-40	83.163	375 × 3	375 × 3
72	GMVL-2035WMA-X(P)	204.0	83.90	1340 × 765 × 1655 × 2	16000 × 3	82	φ22.2	429 × 42.9	30-40	83.163	375 × 3	375 × 3
74	GMVL-2035WMA-X(P)	269.0	81.40	930 × 765 × 1655 × 2	14000 × 14000	82	φ22.2	429 × 42.9	30-40	83.163	215 × 275	215 × 275
76	GMVL-2125WMA-X(P)	212.9	84.20	1340 × 765 × 1655 × 2	16000 × 2	82	φ22.2	429 × 42.9	30-40	83.163	375 × 2	375 × 2
78	GMVL-2155WMA-X(P)	218.0	86.50	1340 × 765 × 1655 × 2	16000 × 3	82	φ22.2	429 × 42.9	30-40	83.163	375 × 3	375 × 3
80	GMVL-2245WMA-X(P)	224.5	88.50	1340 × 765 × 1655 × 2	16000 × 3	82	φ22.2	429 × 42.9	30-40	83.163	375 × 3	375 × 3
82	GMVL-2255WMA-X(P)	228.5	90.00	1340 × 765 × 1655 × 2	16000 × 4	82	φ22.2	429 × 42.9	30-40	83.163	375 × 4	375 × 4
84	GMVL-2355WMA-X(P)	235.0	92.00	1340 × 765 × 1655 × 2	16000 × 4	82	φ22.2	429 × 42.9	30-40	83.163	375 × 4	375 × 4
86	GMVL-2415WMA-X(P)	241.4	95.10	1340 × 765 × 1655 × 2	16000 × 4	82	φ22.2	429 × 42.9	30-40	83.163	375 × 4	375 × 4
88	GMVL-2510WMA-X(P)	247.0	97.60	1340 × 765 × 1655 × 2	16000 × 4	82	φ22.2	429 × 42.9	30-40	83.163	375 × 4	375 × 4
90	GMVL-2520WMA-X(P)	253.5	99.60	1340 × 765 × 1655 × 2	16000 × 4	82	φ22.2	429 × 42.9	30-40	83.163	375 × 4	375 × 4
92	GMVL-2620WMA-X(P)	269.0	103.00	1340 × 765 × 1655 × 2	16000 × 4	82	φ22.2	429 × 42.9	30-40	83.163	375 × 4	375 × 4
94	GMVL-2655WMA-X(P)	266.5	106.50	1340 × 765 × 1655 × 2	16000 × 4	82	φ22.2	429 × 42.9	30-40	83.163	375 × 4	375 × 4
96	GMVL-2705WMA-X(P)	276.0	110.00	1340 × 765 × 1655 × 2	16000 × 4	82	φ22.2	429 × 42.9	30-40	83.163	375 × 4	375 × 4

# ODU Combination Specifications

**GMVL-730WM/A-X(P) and above capacity combination models**

HP	Model	Power source kW	Capacity kW	Power input kW	Dimensions (W×D×H) mm	Allow volume m <sup>3</sup> h	ESP	Connecting pipe Liquid Dia mm	Microcent current A	Max. line current A	Net weight kg	Net weight kg
52	GMVL-1455WMA-X(P)	145.0	60.00	1200 × 880 × 1675 × 2	26000 × 2	30	φ19.05	φ41.3	53.6 × 53.6	83.163	480 × 2	480 × 2
54	GMVL-1515WMA-X(P)	151.5	61.60	1200 × 880 × 1675 × 2	26000 × 2	30	φ19.05	φ41.3	53.6 × 53.6	83.163	480 × 2	480 × 2
56	GMVL-1595WMA-X(P)	159.0	65.50	1200 × 880 × 1675 × 2	26000 × 2	30	φ19.05	φ41.3	53.6 × 53.6	83.163	480 × 2	480 × 2
58	GMVL-1655WMA-X(P)	165.0	70.00	1200 × 880 × 1675 × 2	26000 × 2	30	φ19.05	φ41.3	53.6 × 53.6	83.163	480 × 2	480 × 2
60	GMVL-1655WMA-X(P)	175.0	75.00	1200 × 880 × 1675 × 2	26000 × 2	30	φ19.05	φ41.3	53.6 × 53.6	83.163	480 × 2	480 × 2
62	GMVL-1755WMA-X(P)	180.0	80.00	1200 × 880 × 1675 × 2	26000 × 2	30	φ19.05	φ41.3	53.6 × 53.6	83.163	500 × 2	500 × 2
64	GMVL-1805WMA-X(P)	186.2	81.00	1200 × 880 × 1675 × 2	26000 × 2	30	φ19.05	φ41.3	53.6 × 53.6	83.163	500 × 2	500 × 2
66	GMVL-1855WMA-X(P)	191.0	84.00	1200 × 880 × 1675 × 2	26000 × 2	30	φ22.2	φ44.5	53.6 × 53.6	83.163	500 × 2	500 × 2
68	GMVL-1925WMA-X(P)	196.2	87.00	1200 × 880 × 1675 × 2	26000 × 2	30	φ22.2	φ44.5	53.6 × 53.6	83.163	500 × 2	500 × 2
70	GMVL-1925WMA-X(P)	202.0	84.00	1200 × 880 × 1675 × 2	26000 × 2	30	φ22.2	φ44.5	53.6 × 53.6	83.163	500 × 2	500 × 2
72	GMVL-2025WMA-X(P)	210.0	90.00	1200 × 880 × 1675 × 3	26000 × 3	30	φ22.2	φ44.5	53.6 × 53.6	83.163	480 × 3	480 × 3
74	GMVL-2155WMA-X(P)	224.5	95.00	1200 × 880 × 1675 × 3	26000 × 3	30	φ22.2	φ44.5	53.6 × 53.6	83.163	480 × 3	480 × 3
76	GMVL-2215WMA-X(P)	231.0	95.00	1200 × 880 × 1675 × 3	26000 × 3	30	φ22.2	φ44.5	53.6 × 53.6	83.163	480 × 3	480 × 3
78	GMVL-2255WMA-X(P)	236.9	100.00	1200 × 880 × 1675 × 3	26000 × 3	30	φ22.2	φ44.5	53.6 × 53.6	83.163	480 × 3	480 × 3
80	GMVL-2315WMA-X(P)	241.5	101.00	1200 × 880 × 1675 × 3	26000 × 3	30	φ22.2	φ44.5	53.6 × 53.6	83.163	480 × 3	480 × 3
82	GMVL-2415WMA-X(P)	246.0	105.00	1200 × 880 × 1675 × 3	26000 × 3	30	φ22.2	φ44.5	53.6 × 53.6	83.163	480 × 3	480 × 3
84	GMVL-2455WMA-X(P)	250.0	110.00	1200 × 880 × 1675 × 3	26000 × 3	30	φ22.2	φ44.5	53.6 × 53.6	83.163	480 × 3	480 × 3
86	GMVL-2555WMA-X(P)	256.5	115.00	1200 × 880 × 1675 × 3	26000 × 3	30	φ22.2	φ44.5	53.6 × 53.6	83.163	480 × 3	480 × 3
88	GMVL-2655WMA-X(P)	261.0	120.00	1200 × 880 × 1675 × 3	26000 × 3	30	φ22.2	φ44.5	53.6 × 53.6	83.163	480 × 3	480 × 3
90	GMVL-2705WMA-X(P)	269.0	124.00	1200 × 880 × 1675 × 3	26000 × 3	30	φ22.2	φ44.5	53.6 × 53.6	83.163	480 × 3	480 × 3
92	GMVL-2755WMA-X(P)	277.2	126.00	1200 × 880 × 1675 × 3	26000 × 3	30	φ22.2	φ44.5	53.6 × 53.6	83.163	480 × 3	480 × 3
94	GMVL-2855WMA-X(P)	280.5	130.00	1200 × 880 × 1675 × 3	26000 × 3	30	φ22.2	φ44.5	53.6 × 53.6	83.163	480 × 3	480 × 3
96	GMVL-2955WMA-X(P)	287.0	134.00	1200 × 880 × 1675 × 3	26000 × 3	30	φ22.2	φ44.5	53.6 × 53.6	83.163	480 × 3	480 × 3
98	GMVL-3055WMA-X(P)	292.0	138.00	1200 × 880 × 1675 × 3	26000 × 3	30	φ22.2	φ44.5	53.6 × 53.6	83.163	480 × 3	480 × 3
100	GMVL-3155WMA-X(P)	297.2	142.00	1200 × 880 × 1675 × 3	26000 × 3	30	φ22.2	φ44.5	53.6 × 53.6	83.163	480 × 3	480 × 3
102	GMVL-3255WMA-X(P)	303.0	146.00	1200 × 880 × 1675 × 3	26000 × 3	30	φ22.2	φ44.5	53.6 × 53.6	83.163	480 × 3	480 × 3
104	GMVL-3355WMA-X(P)	308.0	150.00	1200 × 880 × 1675 × 3	26000 × 3	30	φ22.2	φ44.5	53.6 × 53.6	83.163	480 × 3	480 × 3
106	GMVL-3455WMA-X(P)	314.5	153.00	1200 × 880 × 1675 × 3	26000 × 3	30	φ22.2	φ44.5	53.6 × 53.6	83.163	480 × 3	480 × 3
108	GMVL-3555WMA-X(P)	321.0	156.00	1200 × 880 × 1675 × 3	26000 × 3	30	φ22.2	φ44.5	53.6 × 53.6	83.163	480 × 3	480 × 3
110	GMVL-3655WMA-X(P)	328.0	160.00	1200 × 880 × 1675 × 3	26000 × 3	30	φ22.2	φ44.5	53.6 × 53.6	83.163	480 × 3	480 × 3
112	GMVL-3755WMA-X(P)	335.0	166.00	1200 × 880 × 1675 × 3	26000 × 3	30	φ22.2	φ44.5	53.6 × 53.6	83.163	480 × 3	480 × 3
114	GMVL-3855WMA-X(P)	342.0	170.00	1200 × 880 × 1675 × 3	26000 × 3	30	φ22.2	φ44.5	53.6 × 53.6	83.163	480 × 3	480 × 3
116	GMVL-3955WMA-X(P)	349.0	174.00	1200 × 880 × 1675 × 3	26000 × 3	30	φ22.2	φ44.5	53.6 × 53.6	83.163	480 × 3	480 × 3
118	GMVL-4055WMA-X(P)	356.0	178.00	1200 × 880 × 1675 × 3	26000 × 3	30	φ22.2	φ44.5	53.6 × 53.6	83.163	480 × 3	480 × 3
120	GMVL-4155WMA-X(P)	363.0	182.00	1200 × 880 × 1675 × 3	26000 × 3	30	φ22.2	φ44.5	53.6 × 53.6	83.163	480 × 3	480 × 3
122	GMVL-4255WMA-X(P)	370.0	186.00	1200 × 880 × 1675 × 3	26000 × 3	30	φ22.2	φ44.5	53.6 × 53.6	83.163	480 × 3	480 × 3
124	GMVL-4355WMA-X(P)	377.0	190.00	1200 × 880 × 1675 × 3	26000 × 3	30	φ22.2	φ44.5	53.6 × 53.6	83.163	480 × 3	480 × 3
126	GMVL-4455WMA-X(P)	384.0	194.00	1200 × 880 × 1675 × 3	26000 × 3	30	φ22.2	φ44.5	53.6 × 53.6	83.163	480 × 3	480 × 3
128	GMVL-4555WMA-X(P)	391.0	198.00	1200 × 880 × 1675 ×								

## Indoor Unit Lineup

Type	1.5	1.8	2.2	2.5	2.8	3.2	3.5	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	55.0	
Duct Type Indoor Unit																												
Cassette Indoor Unit	High Static Pressure																											
	General Static Pressure																											
	360° Air Discharge																											
Cassette Indoor Unit	360° Air Discharge Compact																											
	2-way																											
Fresh Air Processing Indoor Unit	1-way																											
	2-way																											
Wall-mounted Type Indoor Unit	High Static Pressure																											
	General Static Pressure																											
Floor Ceiling Type Indoor Unit	High Static Pressure																											
	General Static Pressure																											
Floor Standing Type Indoor Unit	High Static Pressure																											
	General Static Pressure																											
Console Indoor Unit	High Static Pressure																											
	General Static Pressure																											
Concealed Floor Standing Type Indoor Unit	High Static Pressure																											
	General Static Pressure																											
AHU KIT																												

## Quick Review of IDU Functions

Types of Indoor Unit	GMV5/ GMV6 Universal (Optional)	Indoor Temp. Detection Point (Optional)	Indoor Temp. Detection and Revision	Static Pressure Adjustment (Optional)	Fresh Air Device (Optional)	PM2.5 Filter (Optional)	Washing Filter Reminding (Optional)	Intelligent Air Supply (Optional)	Auto Acid-Resisting (Optional)	CAN+ Communication	Singl/Parallel Connection	Power-off Memory	Lock-temper. Anti-frost	SET BACK schedule	Manage Intelligent Biling System
Duct Type Indoor Unit															
High Static Pressure															
General Static Pressure															
360° Air Discharge															
360° Air Discharge Compact															
2-way															
1-way															
Fresh Air Processing Indoor Unit															
Wall-mounted Type Indoor Unit															
Floor Ceiling Type Indoor Unit															
Floor Standing Type Indoor Unit															
Console Indoor Unit															
Concealed Floor Standing Type Indoor Unit															
AHU KIT															



## INDOOR UNITS

## 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-freeze 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-step static pressure for adjustment, convenient for engineering application



### Fresh Air Processing Indoor Unit

- DC inverter technology
- Direct evaporating cooling
- Air conditioner and fresh air function is 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 and long room
- 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 seated 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 comfort
- Easy installation without suspended ceiling; arrangement of refrigerant pipe is flexible
- Two-way air supply, upper and lower two air outlets in upper and lower side respectively, 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, can detect the temperature of user's position in real time to improve comfort (work with remote controller YAP1F)



## Concealed Floor Standing Type

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



## AHU-KIT

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



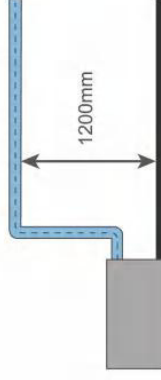


## General Static Pressure Duct Type Indoor Unit

General static pressure duct type indoor unit adopts DC motor, multi-step 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.



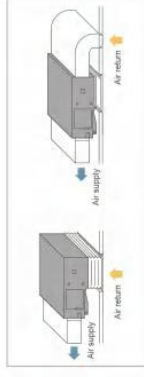
- **Fresh Air Introduction Function**

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



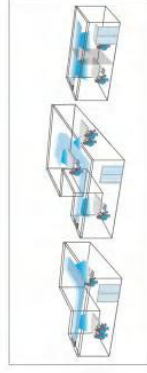
- **Flexible Installation**

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



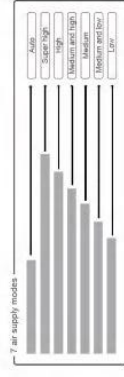
- **80Pa High Static Pressure Design, Multi-step Static Pressure for Adjustment**

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 notch 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 cooling/heating to reach the required temperature.



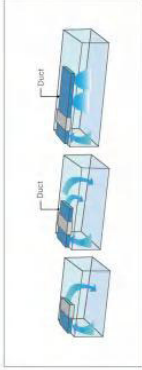
- **DC Motor Design, Low Noise Operation**

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



## 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-step Static Pressure to Adjust**

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



- **Long-distance Air Supply**

Support long-distance air supply to serve multiple air supply area and satisfy complicated layout and locations, creating comfortable environment.



- **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.



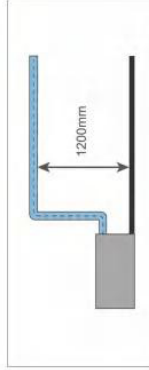
- **Multi-directional Removable Filter**

The filter can be disassembled from 5 directions (the arrow below shows the direction of the removable filter). Installation and maintenance are convenient and fast.



- **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 and long rooms, walkways 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°, covering a wide range of air-conditioning spaces and providing a comfortable environment.

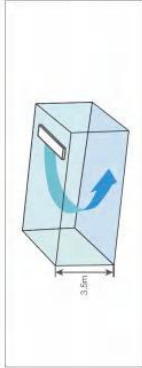


## ● Uniform Temperature Distribution and High Comfort

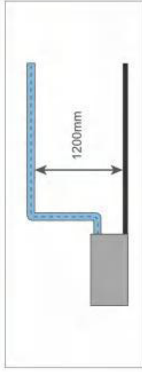
The temperature field is evenly and reasonably distributed, and the heating airflow directly reaches the ground, warming the entire room and greatly improving user comfort.



## ● High Ceiling Design, up to 3.5 Meters Space

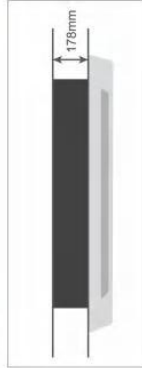


## ● Standard Fitting 1,200mm Condensate Water Lift Pump



## ● Ultra-slim Design

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



## ● Evaporator Auto-drying Operation

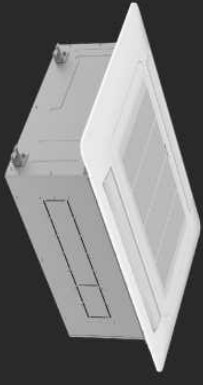
After the cooling mode is stopped, the fan will delay the shutdown time and run for a while to dry the condensate water on the surface of the evaporator to keep the inside of the unit dry, so as not to breed bacteria and mold.

## ● 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



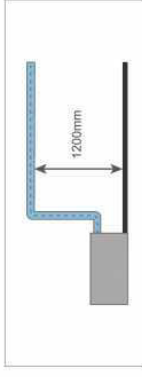
2-way cassette indoor unit adopts high-efficiency DC brushless motor and stylish appearance design, with middle air return and double-sided air supply mode for strong air volume, which can evenly supply air to all parts of the rooms. It can be widely used in hotels and official buildings, shopping malls, apartments, villas, households and other applications.

## ● 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.

## ● 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 (XE70-33H).

## ● 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.

## ● 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.

## ● 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.





## 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 air-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 comfortable environment experience. With optional human sensory function, the control is more intelligent 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.



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

### ● 360° Surrounding Airflow

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



### ● Independent Swing Control

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



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

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

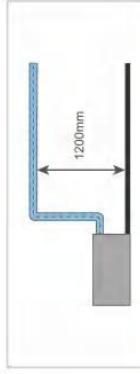
\* This accessory should be customized.

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



### ● 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 lifting panel, and the inlet grille adopts two-way suspension lifting technology to realize the lifting function of the inlet 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**

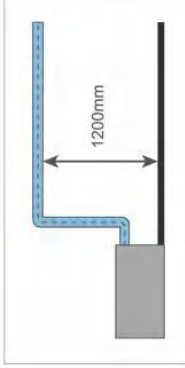
The newly designed 360° surrounding airflow has a wide air supply range, more uniform airflow organization and temperature distribution, avoiding partial hot and cold, and providing a more comfortable user experience.



- **Independent Swing Control**

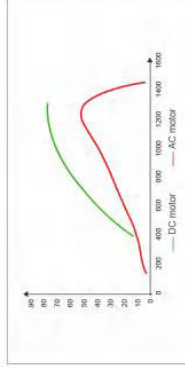
The four air louvers can be controlled independently, and direction of air supply can be regulated independently to achieve different angles of air supply and avoid direct wind blowing to people.

\* 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 noise under the same air volume. 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 disassembly, 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 flexibly.

- **Automatic Up and Down Swing Design**

With up and down swing function, air blower 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 distributed, 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**

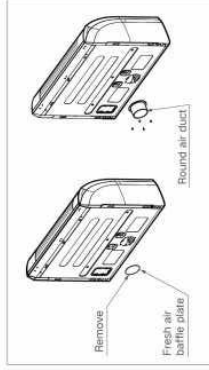
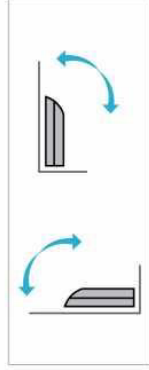
Anti-freezing protection, fan motor built-in overload protection, temperature sensor error protection.



# Floor Ceiling Type Indoor Unit



Floor ceiling type indoor unit has two installation methods: seated type and suspending type, which is decent without hoisting installation. It is suitable to multiple applications such as hotel, office building, shopping mall, apartment, villa, household, etc.



## ● Flexible Installation

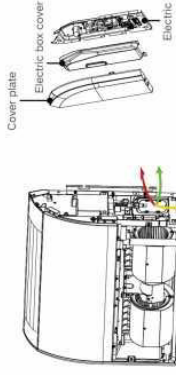
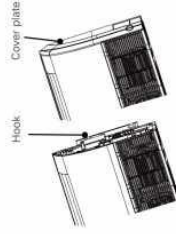
The unit can be seated or hoisted; the flexible and convenient installation method can give customers more installation choices. When seated, the installation is more convenient.

## ● 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 method can adapt to different installation sites;

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 Comfort

The temperature field is evenly and reasonably distributed, and the heating airflow directly reaches the ground, warming 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

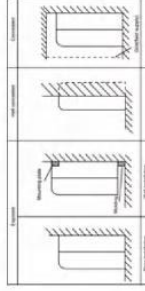
By adopting intelligent temperature control technology, with powerful and rapid cooling/heating function, it can make indoor temperature quickly reach the set temperature.

## ● 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.

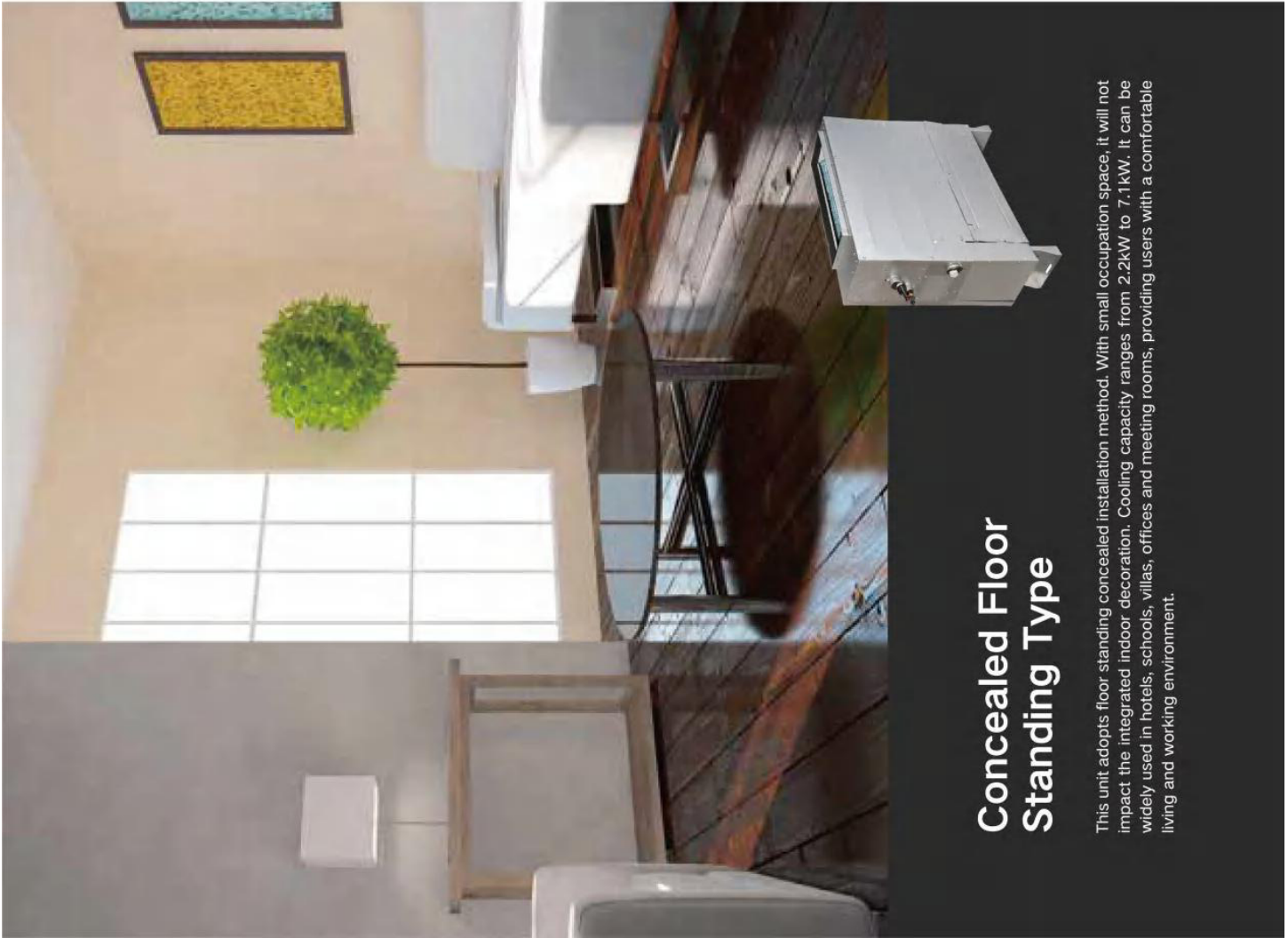
## ● I Feel Function

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

## ● Multiple Protection Functions

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 operation 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-step Static Pressure for Adjustment**

On the basis of the limited vertical return air space structure, the 5-step 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 requirements, which is more convenient and fast.



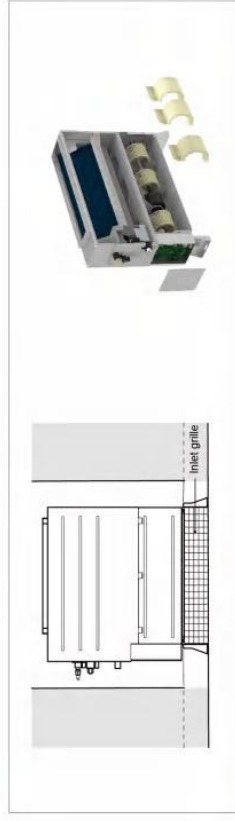
- **Flexible Installation**

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 user's 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 (Gree's or third-party's direct-expansion air handling unit) to the Gree multi VRF system, so that the air handling unit has the functional advantages of multi VRF unit.

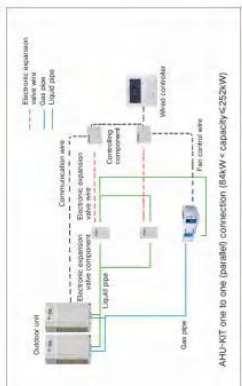
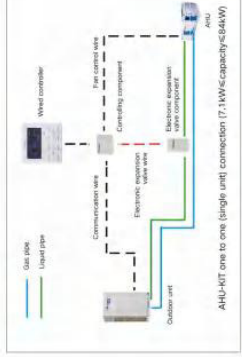


## ● Connection

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. The connection is limited by the outdoor unit. There are the following three types of connections:

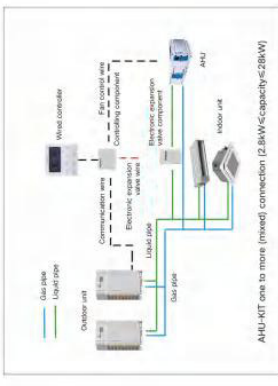
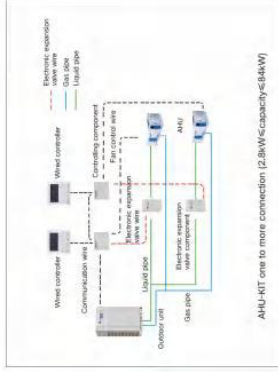
### One to One

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.



### One to More (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's 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.

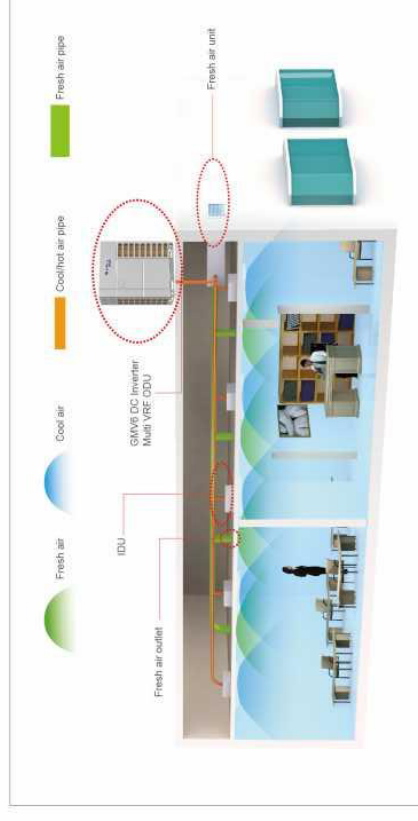
## ● Features:

- The two components are designed independently, and the installation is convenient. The control component is installed indoors and electronic expansion valve can be installed indoors or outdoors, with flexible engineering design.
- 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 operation.
- The outdoor unit is used as cooling and heating sources, no additional cooling and heating sources are required.
- Access to variable refrigerant control system, using DC inverter control technology.
- 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

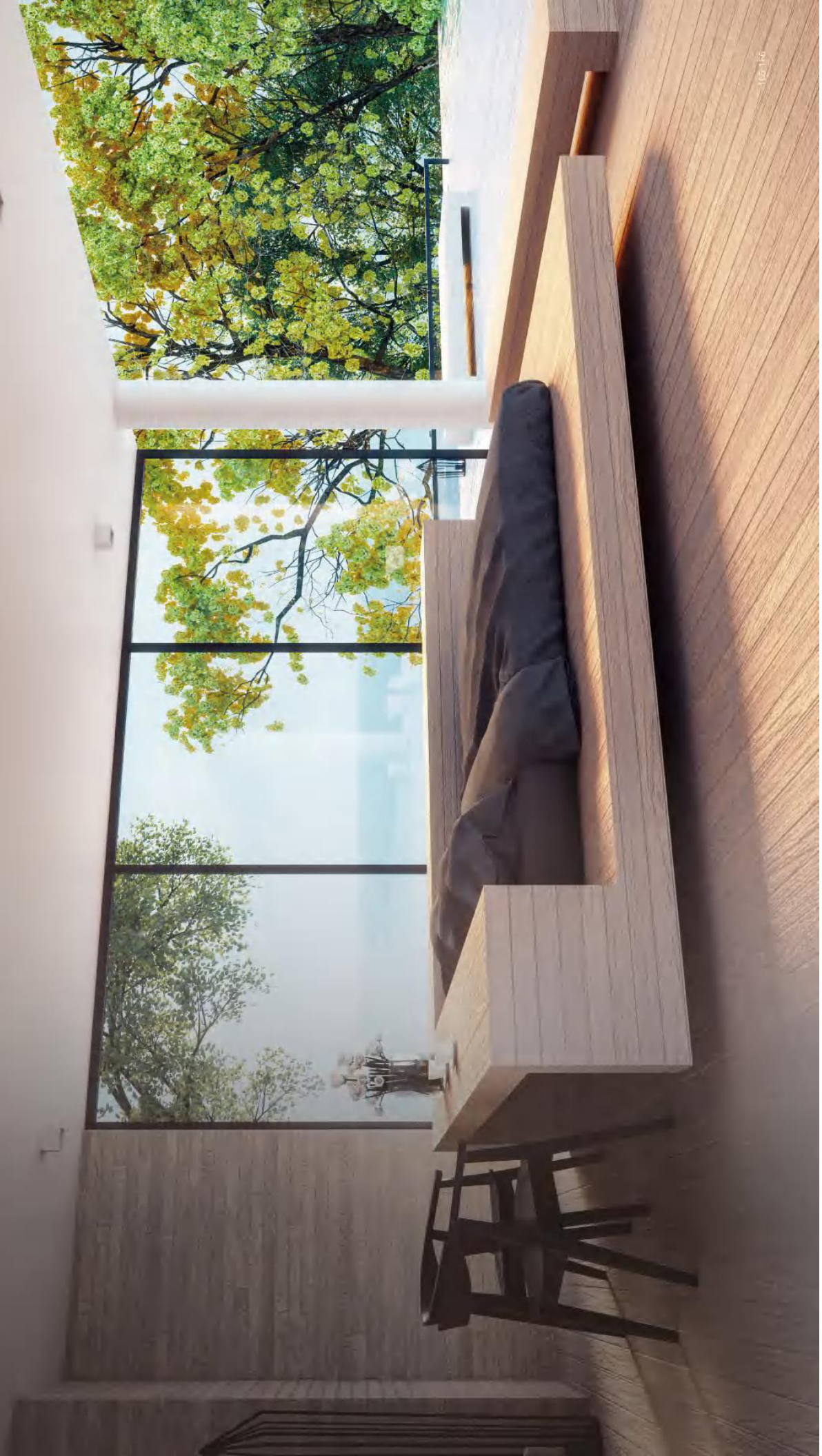


- Air volume: 1000-4000m<sup>3</sup>/h
- DC inverter technology: adjust the capacity output according to actual needs to ensure stable humidity and reduce power consumption.
- Direct evaporative refrigeration: treat outdoor air to the state which is required indoors to achieve the dual effect of air conditioning and fresh air.
- 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.





# Specifications of Indoor Units



# Indoor Unit

# Indoor Unit

## 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	65	65
Airflow volume(H/M/L)	m <sup>3</sup> /h	550/480/400	550/480/400	600/500/420	600/500/420
Rated Current	A	0.5	0.5	0.5	0.5
	Heating	0.5	0.5	0.5	0.5
ESP	Pa	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	33/31/29	33/31/29
	mm	06.35	06.35	06.35	06.35
	mm	09.52	09.52	09.52	09.52
Connecting pipe	mm	09.52	09.52	09.52	09.52
	mm	09.52	09.52	09.52	09.52
External da.	mm	09.52	09.52	09.52	09.52
Thickness	mm	2.5	2.5	2.5	2.5
Drain pipe	mm	700 × 700 × 300	700 × 700 × 300	700 × 700 × 300	700 × 700 × 300
Outline	mm	897 × 808 × 360	897 × 808 × 360	897 × 808 × 360	897 × 808 × 360
Dimension (W × D × H)	mm	32/38	32/38	32/38	32/38
Net weight/Gross weight	kg	168	168	168	168
Loading quantity	40' GP	196	196	196	196
	40' HQ	196	196	196	196

Model	GMV-ND40PHS/B-T	GMV-ND45PHS/B-T	GMV-ND50PHS/B-T	GMV-ND58PHS/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	90	90
Airflow volume(H/M/L)	m <sup>3</sup> /h	850/700/600	850/700/600	1000/800/700	1000/800/700
Rated Current	A	0.5	0.5	0.8	0.8
	Heating	0.5	0.5	0.8	0.8
ESP	Pa	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	37/35/33	37/35/33
	mm	06.35	06.35	09.52	09.52
	mm	09.52	09.52	09.52	09.52
Connecting pipe	mm	09.52	09.52	09.52	09.52
	mm	09.52	09.52	09.52	09.52
External da.	mm	09.52	09.52	09.52	09.52
Thickness	mm	2.5	2.5	2.5	2.5
Drain pipe	mm	700 × 700 × 300	700 × 700 × 300	1000 × 700 × 300	1000 × 700 × 300
Outline	mm	897 × 808 × 360	897 × 808 × 360	1205 × 813 × 360	1205 × 813 × 360
Dimension (W × D × H)	mm	34/40	34/40	43/49	43/49
Net weight/Gross weight	kg	168	168	138	138
Loading quantity	40' GP	196	196	161	161
	40' HQ	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
Airflow volume(H/M/L)	m <sup>3</sup> /h	1250/1050/950	1250/1050/950	1800/1450/1250	1800/1450/1250
Rated Current	A	0.8	0.8	1.1	1.1
	Heating	0.8	0.8	1.1	1.1
ESP	Pa	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
	mm	09.52	09.52	09.52	09.52
	mm	09.52	09.52	09.52	09.52
Connecting pipe	mm	09.52	09.52	09.52	09.52
	mm	09.52	09.52	09.52	09.52
External da.	mm	09.52	09.52	09.52	09.52
Thickness	mm	2.5	2.5	2.5	2.5
Drain pipe	mm	1000 × 700 × 300	1000 × 700 × 300	1400 × 700 × 300	1400 × 700 × 300
Outline	mm	1205 × 813 × 360	1205 × 813 × 360	1601 × 813 × 365	1601 × 813 × 365
Dimension (W × D × H)	mm	43/49	43/49	57/64	57/64
Net weight/Gross weight	kg	138	138	84	84
Loading quantity	40' GP	161	161	98	98
	40' HQ	161	161	98	98

Model	GMV-ND125PHS/B-T	GMV-ND140PHS/B-T	GMV-ND160PHS/B-T	GMV-ND180PHS/B-T	GMV-ND224PHIA-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	350	800
Airflow volume(H/M/L)	m <sup>3</sup> /h	2000/1600/1400	2350/1900/1650	2500/2000/1750	4000/3600/3200
Rated Current	A	1.1	1.5	2.0	3.7
	Heating	1.1	1.5	2.0	3.7
ESP	Pa	90/0 ~ 200	90/0 ~ 200	90/0 ~ 170	100/60 ~ 200
Sound pressure level(H/M/L)	dB(A)	40/38/36	42/39/37	44/41/38	48/47/44
	mm	09.52	09.52	09.52	09.52
	mm	09.52	09.52	09.52	09.52
Connecting pipe	mm	09.52	09.52	09.52	09.52
	mm	09.52	09.52	09.52	09.52
External da.	mm	09.52	09.52	09.52	09.52
Thickness	mm	2.5	2.5	2.5	2.0
Drain pipe	mm	1400 × 700 × 300	1400 × 700 × 300	1400 × 700 × 300	1483 × 791 × 385
Outline	mm	1601 × 813 × 365	1678 × 808 × 365	1678 × 808 × 365	1578 × 863 × 472
Dimension (W × D × H)	mm	57/64	58/67	58/67	82/104
Net weight/Gross weight	kg	84	84	84	60
Loading quantity	40' GP	98	98	98	75
	40' HQ	98	98	98	75

Model	GMV-ND280PHIA-T*	GMV-ND400PHIA-X*	GMV-ND450PHIA-X*	GMV-NS60PHIA-R-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
Power consumption	W	900	2500	2700
Airflow volume(H/M/L)	m <sup>3</sup> /h	4400/4000/3600	8000/6100/5050	8200/6600/5550
Rated Current	A	4.1	2.7	4.1
	Heating	4.1	2.7	4.1
ESP	Pa	100/60 ~ 200	200/50-250	200/50-250
Sound pressure level(H/M/L)	dB(A)	55/52/50	61/59/56	62/60/57
	mm	09.52	09.52	09.52
	mm	09.52	09.52	09.52
Connecting pipe	mm	09.52	09.52	09.52
	mm	09.52	09.52	09.52
External da.	mm	09.52	09.52	09.52
Thickness	mm	2.0	1.2	1.2
Drain pipe	mm	1686 × 870 × 450	1686 × 900 × 650	1900 × 1100 × 700
Outline	mm	1788 × 988 × 580	1923 × 1153 × 850	2123 × 1463 × 1060
Dimension (W × D × H)	mm	105/140	170/220	236/317
Net weight/Gross weight	kg	52	24	16
Loading quantity	40' GP	52	36	16
	40' HQ	52	36	16

\* This model is without water pump.

# Indoor Unit

# Indoor Unit

## 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	2.2	2.5	2.8	3.2	3.6
	Heating	2.5	2.8	3.2	3.6	4.0
Power supply	V/Ph/Hz	220-240V ~ 50Hz & 208-230V ~ 60Hz				
	W	50	50	50	50	50
Airflow volume(H/M/L)	m³/h	550/480/400	550/480/400	550/480/400	600/500/420	600/500/420
	A	0.4	0.4	0.4	0.4	0.4
Rated current	Cooling	0.4	0.4	0.4	0.4	0.4
	Heating	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
	dB(A)	35/31/29	35/31/29	35/31/29	36/33/30	36/33/30
Sound pressure level(H/M/L)	mm	φ6.35	φ6.35	φ6.35	φ6.35	φ6.35
	mm	φ9.52	φ9.52	φ9.52	φ12.7	φ12.7
Connecting pipe	Liquid	φ6.35	φ6.35	φ6.35	φ6.35	φ6.35
	Gas	φ9.52	φ9.52	φ9.52	φ12.7	φ12.7
Drain pipe	External dia.	φ25	φ25	φ25	φ25	φ25
	Thickness	2.5	2.5	2.5	2.5	2.5
Dimension (W x D x H)	mm	700 x 700 x 300	700 x 700 x 300	700 x 700 x 300	700 x 700 x 300	700 x 700 x 300
	mm	897 x 808 x 360	897 x 808 x 360	897 x 808 x 360	897 x 808 x 360	897 x 808 x 360
Net weight / Gross weight	kg	30.5/36	30.5/36	30.5/36	30.5/36	30.5/36
	unit	168	168	168	168	168
Loading quantity	40/GP	196	196	196	196	196
	40/HQ	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	4.0	4.5	5.0	5.6	6.3
	Heating	4.5	5.0	5.6	6.3	7.1
Power supply	V/Ph/Hz	220-240V ~ 50Hz & 208-230V ~ 60Hz				
	W	100	100	100	105	105
Airflow volume(H/M/L)	m³/h	850/700/600	850/700/600	850/700/600	1000/800/700	1000/800/700
	A	0.8	0.8	0.8	0.8	0.8
Rated current	Cooling	0.8	0.8	0.8	0.8	0.8
	Heating	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
	dB(A)	40/36/32	40/36/32	40/36/32	40/36/32	40/36/32
Sound pressure level(H/M/L)	mm	φ6.35	φ6.35	φ6.35	φ9.52	φ9.52
	mm	φ12.7	φ12.7	φ12.7	φ15.9	φ15.9
Connecting pipe	Liquid	φ6.35	φ6.35	φ6.35	φ9.52	φ9.52
	Gas	φ12.7	φ12.7	φ12.7	φ15.9	φ15.9
Drain pipe	External dia.	φ25	φ25	φ25	φ25	φ25
	Thickness	2.5	2.5	2.5	2.5	2.5
Dimension (W x D x H)	mm	700 x 700 x 300	700 x 700 x 300	700 x 700 x 300	1000 x 700 x 300	1000 x 700 x 300
	mm	897 x 808 x 360	897 x 808 x 360	897 x 808 x 360	1205 x 813 x 360	1205 x 813 x 360
Net weight / Gross weight	kg	31.5/37	31.5/37	31.5/37	40.5/46.5	40.5/46.5
	unit	168	168	168	138	138
Loading quantity	40/GP	196	196	196	161	161
	40/HQ	196	196	196	161	161

Model		GMV-ND71PHS/D-T	GMV-ND80PHS/D-T	GMV-ND90PHS/D-T	GMV-ND100PHS/D-T	GMV-ND112PHS/D-T
Capacity	Cooling	7.1	8.0	9.0	10.0	11.2
	Heating	8.0	9.0	10.0	11.2	12.5
Power supply	V/Ph/Hz	220-240V ~ 50Hz & 208-230V ~ 60Hz				
	W	110	110	170	170	170
Airflow volume(H/M/L)	m³/h	1250/1050/950	1250/1050/950	1800/1450/1250	1800/1450/1250	2000/1600/1400
	A	0.9	0.9	1.4	1.4	1.4
Rated current	Cooling	0.9	0.9	1.4	1.4	1.4
	Heating	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
	dB(A)	40/36/32	40/36/32	42/38/34	42/38/34	43/39/36
Sound pressure level(H/M/L)	mm	φ9.52	φ9.52	φ9.52	φ9.52	φ9.52
	mm	φ15.9	φ15.9	φ15.9	φ15.9	φ15.9
Connecting pipe	Liquid	φ6.35	φ6.35	φ6.35	φ6.35	φ6.35
	Gas	φ9.52	φ9.52	φ9.52	φ9.52	φ9.52
Drain pipe	External dia.	φ25	φ25	φ25	φ25	φ25
	Thickness	2.5	2.5	2.5	2.5	2.5
Dimension (W x D x H)	mm	1000 x 700 x 300	1000 x 700 x 300	1400 x 700 x 300	1400 x 700 x 300	1400 x 700 x 300
	mm	1205 x 813 x 360	1205 x 813 x 360	1601 x 813 x 365	1601 x 813 x 365	1601 x 813 x 365
Net weight / Gross weight	kg	41/47	41/47	54/61	54/61	54/61
	unit	138	138	84	84	84
Loading quantity	40/GP	161	161	98	98	98
	40/HQ	161	161	98	98	98

Model		GMV-ND125PHS/D-T	GMV-ND140PHS/D-T	GMV-ND160PHS/D-T	GMV-ND180PHS/D-T
Capacity	Cooling	12.5	14.0	16.0	18.0
	Heating	14.0	16.0	18.0	20.0
Power supply	V/Ph/Hz	220-240V ~ 50Hz & 208-230V ~ 60Hz			
	W	170	240	240	350
Airflow volume(H/M/L)	m³/h	2000/1600/1400	2350/1900/1650	2500/2000/1750	3000/2600/2000
	A	1.4	1.8	1.8	2.0
Rated current	Cooling	1.4	1.8	1.8	2.0
	Heating	1.4	1.8	1.8	2.0
ESP	Pa	90/0-200	90/0-200	90/0-200	90/0-170
	dB(A)	44/40/37	44/41/38	45/43/40	49/47/44
Sound pressure level(H/M/L)	mm	φ9.52	φ9.52	φ9.52	φ9.52
	mm	φ15.9	φ15.9	φ19.05	φ19.05
Connecting pipe	Liquid	φ6.35	φ6.35	φ6.35	φ6.35
	Gas	φ9.52	φ9.52	φ9.52	φ9.52
Drain pipe	External dia.	φ25	φ25	φ25	φ25
	Thickness	2.5	2.5	2.5	2.5
Dimension (W x D x H)	mm	1400 x 700 x 300	1400 x 700 x 300	1400 x 700 x 300	1400 x 700 x 300
	mm	1601 x 813 x 365	1601 x 813 x 365	1601 x 813 x 365	1678 x 808 x 365
Net weight / Gross weight	kg	54/61	54.5/61.5	54.5/61.5	59/67
	unit	84	84	84	84
Loading quantity	40/GP	98	98	98	98
	40/HQ	98	98	98	98

# Indoor Unit

# Indoor Unit

## 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 & 208-230 ~60Hz				
Power consumption	W 28	28	28	28	37
Airflow volume(H/M/L)	450/350/200	450/350/200	450/350/200	450/350/200	550/400/300
Rated Cooling	A 0.2	0.2	0.2	0.2	0.3
Heating	A 0.2	0.2	0.2	0.2	0.3
Current	A 15/0 ~ 30	15/0 ~ 30	15/0 ~ 30	15/0 ~ 30	15/0 ~ 30
ESP	Pa 15/0 ~ 30	15/0 ~ 30	15/0 ~ 30	15/0 ~ 30	15/0 ~ 30
Sound pressure level (f(HM/L))	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
External dia.	mm 25	25	25	25	25
Thickness	mm 2.5	2.5	2.5	2.5	2.5
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-ND63PLS/C1-T	GMV-ND71PLS/C1-T	GMV-ND80PLS/C1-T	GMV-ND80PLS/C1-T	GMV-ND90PLS/C1-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 & 208-230 ~60Hz				
Power consumption	W 55	55	55	110	130
Airflow volume(H/M/L)	850/700/550	1100/950/650	1200/950/700	1250/1100/900	1500/1250/900
Rated Cooling	A 0.4	0.5	0.5	0.63	0.63
Heating	A 0.4	0.5	0.5	0.53	0.63
Current	A 15/0 ~ 30	15/0 ~ 30	15/0 ~ 30	50/0 ~ 80	50/0 ~ 80
ESP	Pa 15/0 ~ 30	15/0 ~ 30	15/0 ~ 30	50/0 ~ 80	50/0 ~ 80
Sound pressure level (f(HM/L))	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
External dia.	mm 25	25	25	φ25	φ25
Thickness	mm 2.5	2.5	2.5	2.5	2.5
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-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 & 208-230 ~60Hz				
Power consumption	W 37	40	40	40	55
Airflow volume(H/M/L)	550/400/300	750/550/400	750/550/400	750/550/400	850/700/550
Rated Cooling	A 0.3	0.3	0.3	0.3	0.4
Heating	A 0.3	0.3	0.3	0.3	0.4
Current	A 15/0 ~ 30	15/0 ~ 30	15/0 ~ 30	15/0 ~ 30	15/0 ~ 30
ESP	Pa 15/0 ~ 30	15/0 ~ 30	15/0 ~ 30	15/0 ~ 30	15/0 ~ 30
Sound pressure level (f(HM/L))	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 φ9.52	φ6.35	φ6.35	φ6.35	φ9.52
External dia.	mm 25	25	25	25	25
Thickness	mm 2.5	2.5	2.5	2.5	2.5
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-ND100PLS/C1-T	GMV-ND112PLS/C1-T	GMV-ND125PLS/C1-T	GMV-ND125PLS/C1-T	GMV-ND140PLS/C1-T
Capacity	Cooling kW 10.0	11.2	12.5	12.5	14.0
	Heating kW 11.2	12.5	14.0	14.0	16.0
Power supply	V/Ph/Hz 220-240V ~50Hz & 208-230 ~60Hz				
Power consumption	W 130	130	170	170	170
Airflow volume(H/M/L)	1500/1350/1000	1700/1500/1100	2000/1700/1400	2000/1700/1400	2000/1700/1400
Rated Cooling	A 0.63	0.63	0.8	0.8	0.8
Heating	A 0.63	0.63	0.8	0.8	0.8
Current	A 50/0 ~ 80	50/0 ~ 80	50/0 ~ 80	50/0 ~ 80	50/0 ~ 80
ESP	Pa 50/0 ~ 80	50/0 ~ 80	50/0 ~ 80	50/0 ~ 80	50/0 ~ 80
Sound pressure level (f(HM/L))	40/36/32	40/36/32	42/40/37	42/40/37	42/40/37
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
External dia.	mm φ25	φ25	φ25	φ25	φ25
Thickness	mm 2.5	2.5	2.5	2.5	2.5
Outline	mm 1340 × 655 × 260	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	1588 × 858 × 315
Net weight/Gross weight	kg 45.5/54.5	45.5/54.5	46.5/55.5	46.5/55.5	46.5/55.5
Loading quantity	40' GP unit 105	105	105	105	105
	40' HQ unit 120	120	120	120	120

# Indoor Unit

# Indoor Unit

## 360° Air Discharge Cassette Indoor Unit

Model	GMV-ND227C-T	GMV-ND287C-T	GMV-ND367C-T	GMV-ND457C-T	GMV-ND507C-T
Capacity	2.2	2.8	3.6	4.5	5.0
Power supply	2.5	3.2	4.0	5.0	5.6
Power consumption	26	26	26	26	28
Airflow volume(H/M/L)	800/700/600	800/700/600	800/700/600	800/700/600	900/800/700
Rated current	0.2	0.2	0.2	0.2	0.2
Sound pressure level(H/M/L)	33/30/28	33/30/28	34/30/28	35/32/29	35/30/27
Connecting pipe	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35
Drain pipe	Φ9.52	Φ12.7	Φ12.7	Φ12.7	Φ12.7
Dimension	840 × 840 × 240	840 × 840 × 240	840 × 840 × 240	840 × 840 × 240	840 × 840 × 240
Main body	963 × 963 × 325	963 × 963 × 325	963 × 963 × 325	963 × 963 × 325	963 × 963 × 325
Net weight/Gross weight	7.0/9.35	7.0/9.35	7.0/9.35	7.0/9.35	7.0/9.35
Panel	960 × 960 × 65	960 × 960 × 65	960 × 960 × 65	960 × 960 × 65	960 × 960 × 65
Dimension	1033 × 1020 × 110	1033 × 1020 × 110	1033 × 1020 × 110	1033 × 1020 × 110	1033 × 1020 × 110
Net weight/Gross weight	6.0/9.5	6.0/9.5	6.0/9.5	6.0/9.5	6.0/9.5
Loading quantity	126	126	126	126	126
40° GP	144	144	144	144	144
40° HQ	144	144	144	144	144

Model	GMV-ND567C-T	GMV-ND637C-T	GMV-ND717C-T	GMV-ND807C-T	GMV-ND907C-T
Capacity	5.6	6.3	7.1	8.0	9.0
Power supply	6.3	7.1	8.0	9.0	10.0
Power consumption	95	60	60	60	85
Airflow volume(H/M/L)	950/850/750	1150/950/850	1150/950/850	1250/1000/900	1250/1000/900
Rated current	0.2	0.4	0.4	0.4	0.4
Sound pressure level(H/M/L)	37/33/30	37/34/31	37/34/31	39/37/34	39/37/34
Connecting pipe	Φ9.52	Φ15.9	Φ15.9	Φ15.9	Φ15.9
Drain pipe	Φ25	Φ25	Φ25	Φ25	Φ25
Dimension	840 × 840 × 240	840 × 840 × 240	840 × 840 × 240	840 × 840 × 240	840 × 840 × 240
Main body	963 × 963 × 325	963 × 963 × 325	963 × 963 × 325	963 × 963 × 325	963 × 963 × 325
Net weight/Gross weight	28.0/36.0	28.0/36.0	28.0/36.0	29.0/37.0	29.0/37.0
Panel	960 × 960 × 65	960 × 960 × 65	960 × 960 × 65	960 × 960 × 65	960 × 960 × 65
Dimension	1033 × 1020 × 110	1033 × 1020 × 110	1033 × 1020 × 110	1033 × 1020 × 110	1033 × 1020 × 110
Net weight/Gross weight	6.0/9.5	6.0/9.5	6.0/9.5	6.0/9.5	6.0/9.5
Loading quantity	126	126	126	126	126
40° GP	144	144	144	144	144
40° HQ	144	144	144	144	144

Model	GMV-ND1007C-T	GMV-ND1127C-T	GMV-ND1257C-T	GMV-ND1407C-T	GMV-ND1607C-T
Capacity	10.0	11.2	12.5	14.0	16.0
Power supply	11.2	12.5	14.0	16.0	18.0
Power consumption	85	115	115	115	170
Airflow volume(H/M/L)	1250/1000/900	1650/1300/1100	1650/1300/1100	2000/1800/1430	2000/1800/1430
Rated current	0.4	0.6	0.6	0.6	1.2
Sound pressure level(H/M/L)	39/37/34	43/41/39	43/41/39	43/41/39	51/48/42
Connecting pipe	Φ9.52	Φ15.9	Φ15.9	Φ15.9	Φ19.05
Drain pipe	Φ25	Φ25	Φ25	Φ25	Φ25
Dimension	840 × 840 × 240	840 × 840 × 240	840 × 840 × 240	840 × 840 × 240	840 × 840 × 240
Main body	963 × 963 × 325	963 × 963 × 325	963 × 963 × 325	963 × 963 × 325	963 × 963 × 325
Net weight/Gross weight	29.0/37.0	33.0/42.0	33.0/42.0	33.0/42.0	36.0/44.0
Panel	960 × 960 × 65	960 × 960 × 65	960 × 960 × 65	960 × 960 × 65	960 × 960 × 65
Dimension	1033 × 1020 × 110	1033 × 1020 × 110	1033 × 1020 × 110	1033 × 1020 × 110	1033 × 1020 × 110
Net weight/Gross weight	6.0/9.5	6.0/9.5	6.0/9.5	6.0/9.5	6.0/9.5
Loading quantity	126	124	124	124	124
40° GP	144	113	113	113	113
40° HQ	144	124	124	124	124

Model	GMV-ND227D1-T*	GMV-ND287D1-T*	GMV-ND367D1-T*	GMV-ND457D1-T*	GMV-ND507D1-T*
Capacity	2.2	2.8	3.6	4.5	5.0
Power supply	2.5	3.2	4.0	5.0	5.6
Power consumption	40	40	40	50	50
Airflow volume(H/M/L)	800/700/600	800/700/600	800/700/600	900/800/700	900/800/700
Rated current	0.35	0.35	0.35	0.44	0.44
Sound pressure level(H/M/L)	32/29/27	32/29/27	32/29/27	35/30/27	35/30/27
Connecting pipe	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35
Drain pipe	Φ9.52	Φ12.7	Φ12.7	Φ12.7	Φ12.7
Dimension	840 × 840 × 200	840 × 840 × 200	840 × 840 × 200	840 × 840 × 200	840 × 840 × 200
Main body	930 × 930 × 255	930 × 930 × 255	930 × 930 × 255	930 × 930 × 255	930 × 930 × 255
Net weight/Gross weight	19/23	19/23	19/23	19/23	19/23
Panel	950 × 950 × 65	950 × 950 × 65	950 × 950 × 65	950 × 950 × 65	950 × 950 × 65
Dimension	1033 × 1020 × 10	1033 × 1020 × 10	1033 × 1020 × 10	1033 × 1020 × 10	1033 × 1020 × 10
Net weight/Gross weight	6.0/9.5	6.0/9.5	6.0/9.5	6.0/9.5	6.0/9.5
Loading quantity	152	152	152	152	152
40° GP	169	169	169	169	169
40° HQ	169	169	169	169	169

Model	GMV-ND567D1-T*	GMV-ND637D1-T*	GMV-ND717D1-T*	GMV-ND807D1-T*	GMV-ND907D1-T*
Capacity	5.6	6.3	7.1	8.0	9.0
Power supply	6.3	7.1	8.0	9.0	10.0
Power consumption	60	60	60	75	75
Airflow volume(H/M/L)	1100/935/850	1100/935/850	1100/935/850	1400/1000/900	1400/1000/900
Rated current	0.49	0.49	0.49	0.60	0.60
Sound pressure level(H/M/L)	37/35/32	37/35/32	37/35/32	40/36/31	40/36/31
Connecting pipe	Φ9.52	Φ15.9	Φ15.9	Φ15.9	Φ15.9
Drain pipe	Φ25	Φ25	Φ25	Φ25	Φ25
Dimension	840 × 840 × 200	840 × 840 × 200	840 × 840 × 200	840 × 840 × 240	840 × 840 × 240
Main body	930 × 930 × 255	930 × 930 × 255	930 × 930 × 255	930 × 930 × 255	930 × 930 × 255
Net weight/Gross weight	21/25	21/25	21/25	22.5/27	22.5/27
Panel	950 × 950 × 65	950 × 950 × 65	950 × 950 × 65	950 × 950 × 65	950 × 950 × 65
Dimension	1033 × 1020 × 10	1033 × 1020 × 10	1033 × 1020 × 10	1033 × 1020 × 10	1033 × 1020 × 10
Net weight/Gross weight	6.0/9.5	6.0/9.5	6.0/9.5	6.0/9.5	6.0/9.5
Loading quantity	152	152	152	139	139
40° GP	169	169	169	157	157
40° HQ	169	169	169	157	157

Model	GMV-ND1007D1-T*	GMV-ND1127D1-T*	GMV-ND1257D1-T*	GMV-ND1407D1-T*	GMV-ND1607D1-T*
Capacity	10.0	11.2	12.5	14.0	16.0
Power supply	11.2	12.5	14.0	16.0	18.0
Power consumption	100	100	100	160	160
Airflow volume(H/M/L)	1550/1200/1000	1550/1200/1000	1800/1450/1150	1800/1450/1150	1800/1450/1150
Rated current	0.76	0.76	0.85	0.85	0.85
Sound pressure level(H/M/L)	43/39/35	43/39/35	46/41/35	46/41/35	46/41/35
Connecting pipe	Φ9.52	Φ15.9	Φ15.9	Φ15.9	Φ15.9
Drain pipe	Φ25	Φ25	Φ25	Φ25	Φ25
Dimension	840 × 840 × 240	840 × 840 × 240	840 × 840 × 240	840 × 840 × 240	840 × 840 × 240
Main body	930 × 930 × 292	930 × 930 × 292	930 × 930 × 345	930 × 930 × 345	930 × 930 × 345
Net weight/Gross weight	22.5/27	22.5/27	25/29.5	25/29.5	25/29.5
Panel	950 × 950 × 65	950 × 950 × 65	950 × 950 × 65	950 × 950 × 65	950 × 950 × 65
Dimension	1033 × 1020 × 10	1033 × 1020 × 10	1033 × 1020 × 10	1033 × 1020 × 10	1033 × 1020 × 10
Net weight/Gross weight	6.0/9.5	6.0/9.5	6.0/9.5	6.0/9.5	6.0/9.5
Loading quantity	157	157	135	135	135
40° GP	157	157	117	117	117
40° HQ	157	157	135	135	135

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

# Indoor Unit

## 360 ° Air Discharge Compact Cassette Indoor Unit

Model	GMV-ND151/E-T	GMV-ND181/E-T	GMV-ND221/E-T	GMV-ND281/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	220-240V ~ 50Hz & 208-230V ~ 60Hz			
Airflow volume(H/M/L)	W 460/420/370	30	30	30
Rated current	A 0.15	0.15	0.15	0.15
Sound pressure level(H/M/L)	dB(A) 33/30/25	36/31/25	36/33/28	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) 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) 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-ND381/E-T	GMV-ND451/E-T	GMV-ND501/E-T	GMV-ND561/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	220-240V ~ 50Hz & 208-230V ~ 60Hz			
Airflow volume(H/M/L)	W 620/550/480	45	45	45
Rated current	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	φ6.35
	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) 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) 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

# Indoor Unit

## 2-way Cassette Indoor Unit

Model	GMV-ND281S/ B-T	GMV-ND361S/ B-T	GMV-ND451S/ B-T	GMV-ND501S/ B-T	GMV-ND561S/ B-T	GMV-ND631S/ B-T	GMV-ND711S/ B-T	GMV-ND801S/ 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	220-240V ~ 50Hz & 208-230V ~ 60Hz							
Airflow volume(H/M/L)	W 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	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	φ6.35	φ6.35	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) 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) mm 1100×710×280	1100×710×280	1100×710×280	1100×710×280	1100×710×280	1100×710×280	1100×710×280	1100×710×280
	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	3.2	3.6	4.5	5.0
	Heating kW 2.5	3.2	3.2	4.0	5.0	5.6
Power supply	220-240V ~ 50Hz & 208-230V ~ 60Hz					
Airflow volume(H/M/L)	W 600/500/450	600/500/450	600/500/450	600/500/450	600/500/450	600/500/450
Rated current	A 0.2	0.2	0.2	0.2	0.3	0.3
Sound pressure level(H/M/L)	dB(A) 36/32/28	36/32/28	36/32/28	36/32/28	40/35/30	41/36/35
Connecting pipe	Liquid mm φ6.35	φ6.35	φ6.35	φ6.35	φ6.35	φ6.35
	Gas mm φ9.52	φ9.52	φ9.52	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) mm 987×395×178	987×395×178	987×395×178	987×395×178	987×395×178	987×395×178
	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	20/27	21/28.5	21/28.5
Panel	Model TD01	TD01	TD01	TD01	TD01	TD01
	Dimension (W×D×H) 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

# Indoor Unit

Model	GMV-ND63TD/B-T	GMV-ND71TD/B-T	GMV-ND80TD/B-T
Capacity	Cooling kW 7.1	Cooling kW 8.0	Cooling kW 9.0
Power supply	Heating V/Ph/Hz 220-240V ~ 50Hz & 208-230V ~ 60Hz	Heating V/Ph/Hz 220-240V ~ 50Hz & 208-230V ~ 60Hz	Heating V/Ph/Hz 220-240V ~ 50Hz & 208-230V ~ 60Hz
Power consumption	W 57	W 83	W 83
Airflow volume(H/M/L)	880/680/600	1000/680/600	1000/680/600
Rated current	Cooling A 0.55	Cooling A 0.86	Cooling A 0.86
Sound pressure level(H/M/L)	Heating dB(A) 44/39/36	Heating dB(A) 44/39/36	Heating dB(A) 44/39/36
Connecting pipe	Liquid mm Φ9.52	Liquid mm Φ9.52	Liquid mm Φ9.52
Drain pipe	Gas mm Φ15.9	Gas mm Φ15.9	Gas mm Φ15.9
External dia.	mm Φ25	mm Φ25	mm Φ25
Thickness	mm 2.50	mm 2.50	mm 2.50
Dimension (W×D×H)	mm 1200×470×200	mm 1200×470×200	mm 1200×470×200
Net weight/Gross weight	kg 1438×548×295	kg 1438×548×295	kg 1438×548×295
Model	TD03	TD03	TD03
Dimension (W×D×H)	mm 1350×555×64	mm 1350×555×64	mm 1350×555×64
Panel (W×D×H)	mm 1443×648×155	mm 1443×648×155	mm 1443×648×155
Net weight/Gross weight	kg 7.8/13.5	kg 7.8/13.5	kg 7.8/13.5
40' GP	unit 170	unit 170	unit 170
Loading quantity	40' HQ unit 189	40' HQ unit 189	40' HQ unit 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	Cooling kW 3.2	Cooling kW 5.0	Cooling kW 5.6	Cooling kW 6.3	Cooling kW 7.1
Power supply	Heating V/Ph/Hz 220-240V ~ 50Hz & 208-230V ~ 60Hz	Heating V/Ph/Hz 220-240V ~ 50Hz & 208-230V ~ 60Hz	Heating V/Ph/Hz 220-240V ~ 50Hz & 208-230V ~ 60Hz	Heating V/Ph/Hz 220-240V ~ 50Hz & 208-230V ~ 60Hz	Heating V/Ph/Hz 220-240V ~ 50Hz & 208-230V ~ 60Hz	Heating V/Ph/Hz 220-240V ~ 50Hz & 208-230V ~ 60Hz
Power consumption	W 35	W 35	W 55	W 55	W 80	W 80
Airflow volume(H/M/L)	600/500/450	600/500/450	750/650/600	750/650/600	1350/1200/1050	1350/1200/1050
Rated current	Cooling A 0.2	Cooling A 0.2	Cooling A 0.3	Cooling A 0.3	Cooling A 0.4	Cooling A 0.4
Sound pressure level(H/M/L)	Heating dB(A) 36/32/29	Heating dB(A) 36/32/29	Heating dB(A) 42/39/36	Heating dB(A) 42/39/36	Heating dB(A) 44/41/38	Heating dB(A) 44/41/38
Connecting pipe	Liquid mm Φ6.35	Liquid mm Φ6.35	Liquid mm Φ6.35	Liquid mm Φ6.35	Liquid mm Φ9.52	Liquid mm Φ9.52
Drain pipe	Gas mm Φ9.52	Gas mm Φ12.7	Gas mm Φ12.7	Gas mm Φ15.9	Gas mm Φ15.9	Gas mm Φ15.9
External dia.	mm Φ17	mm Φ17	mm Φ17	mm Φ17	mm Φ17	mm Φ17
Thickness	mm 1.75	mm 1.75	mm 1.75	mm 1.75	mm 1.75	mm 1.75
Dimension (W×D×H)	mm 870×665×235	mm 870×665×235	mm 870×665×235	mm 870×665×235	mm 1200×665×235	mm 1200×665×235
Package	mm 973×770×300	mm 973×770×300	mm 973×770×300	mm 973×770×300	mm 1303×770×300	mm 1303×770×300
Net weight/Gross weight	kg 24/29	kg 24/29	kg 25/30	kg 25/30	kg 32/38	kg 32/38
40' GP	unit 252	unit 252	unit 252	unit 252	unit 189	unit 189
Loading quantity	40' HQ unit 288	40' HQ unit 288	40' HQ unit 288	40' HQ unit 288	40' HQ unit 216	40' HQ unit 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	Cooling kW 11.2	Cooling kW 12.5	Cooling kW 14.0	Cooling kW 16.0
Power supply	Heating V/Ph/Hz 220-240V ~ 50Hz & 208-230V ~ 60Hz	Heating V/Ph/Hz 220-240V ~ 50Hz & 208-230V ~ 60Hz	Heating V/Ph/Hz 220-240V ~ 50Hz & 208-230V ~ 60Hz	Heating V/Ph/Hz 220-240V ~ 50Hz & 208-230V ~ 60Hz	Heating V/Ph/Hz 220-240V ~ 50Hz & 208-230V ~ 60Hz
Power consumption	W 120	W 120	W 120	W 150	W 175
Airflow volume(H/M/L)	1550/1400/1250	1800/1600/1400	1800/1600/1400	2000/1750/1600	2150/1850/1650
Rated current	Cooling A 0.7	Cooling A 0.7	Cooling A 0.7	Cooling A 0.8	Cooling A 0.9
Sound pressure level(H/M/L)	Heating dB(A) 47/44/41	Heating dB(A) 47/44/42	Heating dB(A) 47/44/42	Heating dB(A) 49/45/43	Heating dB(A) 52/48/45
Connecting pipe	Liquid mm Φ9.52	Liquid mm Φ9.52	Liquid mm Φ9.52	Liquid mm Φ9.52	Liquid mm Φ9.52
Drain pipe	Gas mm Φ15.9	Gas mm Φ15.9	Gas mm Φ15.9	Gas mm Φ15.9	Gas mm Φ19.05
External dia.	mm Φ17	mm Φ17	mm Φ17	mm Φ17	mm Φ17
Thickness	mm 1.75	mm 1.75	mm 1.75	mm 1.75	mm 1.75
Dimension (W×D×H)	mm 1200×665×235	mm 1570×665×235	mm 1570×665×235	mm 1570×665×235	mm 1570×665×235
Package	mm 1303×770×300	mm 1669×770×300	mm 1669×770×300	mm 1669×770×300	mm 1669×770×300
Net weight/Gross weight	kg 33/39	kg 41/48	kg 41/48	kg 43/50	kg 43/50
40' GP	unit 189	unit 147	unit 147	unit 147	unit 147
Loading quantity	40' HQ unit 216	40' HQ unit 168	40' HQ unit 168	40' HQ unit 168	40' HQ unit 168

# Indoor Unit

# 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	Cooling kW 1.8	Cooling kW 2.2	Cooling kW 2.8	Cooling kW 3.6	Cooling kW 4.5	Cooling kW 5.0
Power supply	Heating V/Ph/Hz 220-240V ~ 50Hz & 208-230V ~ 60Hz	Heating V/Ph/Hz 220-240V ~ 50Hz & 208-230V ~ 60Hz	Heating V/Ph/Hz 220-240V ~ 50Hz & 208-230V ~ 60Hz	Heating V/Ph/Hz 220-240V ~ 50Hz & 208-230V ~ 60Hz	Heating V/Ph/Hz 220-240V ~ 50Hz & 208-230V ~ 60Hz	Heating V/Ph/Hz 220-240V ~ 50Hz & 208-230V ~ 60Hz	Heating V/Ph/Hz 220-240V ~ 50Hz & 208-230V ~ 60Hz
Power consumption	W 20	W 20	W 20	W 20	W 25	W 35	W 35
Airflow volume(H/M/L)	500/440/300	500/440/300	500/440/300	630/460/320	850/580/500	850/580/500	850/580/500
Rated current	Cooling A 0.1	Cooling A 0.1	Cooling A 0.1	Cooling A 0.1	Cooling A 0.12	Cooling A 0.17	Cooling A 0.17
Sound pressure level(H/M/L)	Heating dB(A) 35/33/30	Heating dB(A) 35/33/30	Heating dB(A) 35/33/30	Heating dB(A) 35/33/30	Heating dB(A) 39/35/31	Heating dB(A) 43/40/37	Heating dB(A) 43/40/37
Connecting pipe	Liquid mm Φ6.35	Liquid mm Φ6.35	Liquid mm Φ6.35	Liquid mm Φ6.35	Liquid mm Φ6.35	Liquid mm Φ6.35	Liquid mm Φ6.35
Drain pipe	Gas mm Φ9.52	Gas mm Φ9.52	Gas mm Φ9.52	Gas mm Φ9.52	Gas mm Φ12.7	Gas mm Φ12.7	Gas mm Φ12.7
External dia.	mm Φ20	mm Φ20	mm Φ20	mm Φ20	mm Φ20	mm Φ20	mm Φ20
Thickness	mm 1.5	mm 1.5	mm 1.5	mm 1.5	mm 1.5	mm 1.5	mm 1.5
Dimension (W×D×H)	mm 845×209×289	mm 845×209×289	mm 845×209×289	mm 845×209×289	mm 845×209×289	mm 845×209×289	mm 845×209×289
Package	mm 976×281×379	mm 976×281×379	mm 976×281×379	mm 976×281×379	mm 976×281×379	mm 976×281×379	mm 976×281×379
Net weight/Gross weight	kg 10.5/12.5	kg 10.5/12.5	kg 10.5/12.5	kg 10.5/12.5	kg 12.5/15.5	kg 12.5/15.5	kg 12.5/15.5
40' GP	unit 576	unit 576	unit 576	unit 576	unit 576	unit 448	unit 448
Loading quantity	40' HQ unit 576	40' HQ unit 576	40' HQ unit 576	40' HQ unit 576	40' HQ unit 576	40' HQ unit 512	40' HQ unit 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	Cooling kW 6.3	Cooling kW 7.1	Cooling kW 8.0	Cooling kW 9.0	Cooling kW 9.5
Power supply	Heating V/Ph/Hz 220-240V ~ 50Hz & 208-230V ~ 60Hz	Heating V/Ph/Hz 220-240V ~ 50Hz & 208-230V ~ 60Hz	Heating V/Ph/Hz 220-240V ~ 50Hz & 208-230V ~ 60Hz	Heating V/Ph/Hz 220-240V ~ 50Hz & 208-230V ~ 60Hz	Heating V/Ph/Hz 220-240V ~ 50Hz & 208-230V ~ 60Hz	Heating V/Ph/Hz 220-240V ~ 50Hz & 208-230V ~ 60Hz
Power consumption	W 50	W 50	W 65	W 80	W 80	W 100
Airflow volume(H/M/L)	1100/850/650	1100/850/650	1200/850/650	1550/1050/800	1550/1050/800	1650/1100/900
Rated current	Cooling A 0.24	Cooling A 0.24	Cooling A 0.31	Cooling A 0.41	Cooling A 0.41	Cooling A 0.41
Sound pressure level(H/M/L)	Heating dB(A) 43/41/37	Heating dB(A) 43/41/37	Heating dB(A) 44/41/37	Heating dB(A) 49/46/40	Heating dB(A) 49/46/40	Heating dB(A) 52/48/40
Connecting pipe	Liquid mm Φ9.52	Liquid mm Φ9.52	Liquid mm Φ9.52	Liquid mm Φ15.9	Liquid mm Φ15.9	Liquid mm Φ15.9
Drain pipe	Gas mm Φ15.9	Gas mm Φ15.9	Gas mm Φ15.9	Gas mm Φ20	Gas mm Φ20	Gas mm Φ20
External dia.	mm Φ20	mm Φ20	mm Φ20	mm Φ20	mm Φ20	mm Φ20
Thickness	mm 1.5	mm 1.5	mm 1.5	mm 1.5	mm 1.5	mm 1.5
Dimension (W×D×H)	mm 1078×246×325	mm 1078×246×325	mm 1078×246×325	mm 1350×258×326	mm 1350×258×326	mm 1350×258×326
Package	mm 1203×338×425	mm 1203×338×425	mm 1203×338×425	mm 1496×357×433	mm 1496×357×433	mm 1496×357×433
Net weight/Gross weight	kg 16/19	kg 16/19	kg 16/19	kg 20/24	kg 20/24	kg 20/24
40' GP	unit 282	unit 282	unit 282	unit 228	unit 228	unit 228
Loading quantity	40' HQ unit 329	40' HQ unit 329	40' HQ unit 329	40' HQ unit 266	40' HQ unit 266	40' HQ unit 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	Cooling kW 2.8	Cooling kW 3.6	Cooling kW 4.5	Cooling kW 5.0
Power supply	Heating V/Ph/Hz 220-240V ~ 50Hz & 208-230V ~ 60Hz	Heating V/Ph/Hz 220-240V ~ 50Hz & 208-230V ~ 60Hz	Heating V/Ph/Hz 220-240V ~ 50Hz & 208-230V ~ 60Hz	Heating V/Ph/Hz 220-240V ~ 50Hz & 208-230V ~ 60Hz	Heating V/Ph/Hz 220-240V ~ 50Hz & 208-230V ~ 60Hz
Power consumption	W 15	W 15	W 15	W 40	W 40
Airflow volume(H/M/L)	400/320/270	400/320/270	480/400/310	680/600/500	680/600/500
Rated current	Cooling A 0.17	Cooling A 0.17	Cooling A 0.25	Cooling A 0.4	Cooling A 0.4
Sound pressure level(H/M/L)	Heating dB(A) 38/33/27	Heating dB(A) 38/33/27	Heating dB(A) 40/37/32	Heating dB(A) 46/43/39	Heating dB(A) 46/43/39
Connecting pipe	Liquid mm Φ6.35	Liquid mm Φ6.35	Liquid mm Φ6.35	Liquid mm Φ6.35	Liquid mm Φ6.35
Drain pipe	Gas mm Φ9.52	Gas mm Φ9.52	Gas mm Φ12.7	Gas mm Φ12.7	Gas mm Φ12.7
External dia.	mm Φ28	mm Φ28	mm Φ28	mm Φ28	mm Φ28
Thickness	mm 1	mm 1	mm 1	mm 1	mm 1
Dimension (W×D×H)	mm 700×215×600	mm 700×215×600	mm 700×215×600	mm 788×283×777	mm 788×283×777
Package	mm 788×283×777	mm 788×283×777	mm 788×283×777	mm 788×283×777	mm 788×283×777
Net weight/Gross weight	kg 16/19	kg 16/19	kg 16/19	kg 348	kg 348
40' GP	unit 348	unit 348	unit 348	unit 348	unit 348
Loading quantity	40' HQ unit 348	40' HQ unit 348	40' HQ unit 348	40' HQ unit 348	40' HQ unit 348

# Indoor Unit

## Floor Standing Type

Model	GMV-ND100U/A-T	GMV-ND140U/A-T	GMV-ND160U/A-T
Capacity	Cooling kW 11.0	14.0 11.0	15.0
Power supply	V/Ph/Hz	220-240V ~ 50Hz & 208-230V ~ 60Hz	
Detailed capacity of ex-factory	Cooling kW 1850/1600/1400	1850/1600/1400	200
Power consumption	W	50/48/46	50/48/46
Airflow volume(H/M/L)	m <sup>3</sup> /h	09.52	09.52
Sound pressure level(H/M/L)	dB(A)	015.9	015.9
Connecting pipe	Liquid mm 031	031	031
External db.	mm	4.5	4.5
Dimension (W x D x H)	mm	580 x 400 x 1870	580 x 400 x 1870
Package	mm	738 x 545 x 2083	738 x 545 x 2083
Net weight/Gross weight	kg	54.0/74.0	57.0/77.0
Loading quantity	40' GP unit	67	67
	40' HP unit	67	67

## Concealed Floor Standing Type

Model	GMV-ND22ZA/A-T	GMV-ND28ZA/A-T	GMV-ND32ZA/A-T	GMV-ND45ZA/A-T	GMV-ND52ZA/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
Power supply	V/Ph/Hz	220-240V ~ 50Hz & 208-230V ~ 60Hz					
Detailed capacity of ex-factory	Cooling kW 450/350/250	450/350/250	550/450/350	650/500/400	900/750/600	900/750/600	1100/900/700
Power consumption	W	0.18	0.22	0.23	0.41	0.41	0.46
Airflow volume(H/M/L)	m <sup>3</sup> /h	10.0 ~ 4.0	10.0 ~ 4.0	15.0 ~ 6.0	15.0 ~ 6.0	15.0 ~ 6.0	15.0 ~ 6.0
Rated current	A	30/28/25	30/28/25	33/31/28	35/33/30	35/33/30	37/35/33
ESP	Pa	06.35	06.35	06.35	06.35	06.35	06.35
Sound pressure level(H/M/L)	dB(A)	09.52	012.1	012.1	015.9	015.9	015.9
Connecting pipe	Liquid mm 025	025	025	025	025	025	025
External db.	mm	1.2	1.2	1.2	1.2	1.2	1.2
Dimension (W x D x H)	mm	700 x 615 x 200	700 x 615 x 200	900 x 615 x 200	1100 x 615 x 200	1100 x 615 x 200	1100 x 615 x 200
Package	mm	893 x 743 x 305	893 x 743 x 305	1123 x 743 x 305	1323 x 743 x 305	1323 x 743 x 305	1323 x 743 x 305
Net weight/Gross weight	kg	29/30	29/30	27/36	32/41	32/41	32/41
Loading quantity	40' GP unit	312	273	217	175	175	175
	40' HP unit	312	312	248	200	200	200

## AHU-KIT

Model	GMV-N56U/G-T	GMV-N71U/C-T	GMV-N140U/C-T	GMV-N280U/C-T	GMV-N560U/C-T
Capacity	Cooling kW 3.6	7.1	14.0	28.0	56.0
Power supply	V/Ph/Hz	220-240V ~ 50Hz & 208-230V ~ 60Hz			
Detailed capacity of ex-factory	Cooling kW 6.35	6.35	6.35	6.35	6.35
Power consumption	W	0.18	0.22	0.23	0.41
Airflow volume(H/M/L)	m <sup>3</sup> /h	10.0 ~ 4.0	10.0 ~ 4.0	15.0 ~ 6.0	15.0 ~ 6.0
Rated current	A	30/28/25	30/28/25	33/31/28	35/33/30
ESP	Pa	06.35	06.35	06.35	06.35
Sound pressure level(H/M/L)	dB(A)	09.52	012.1	012.1	015.9
Connecting pipe	Liquid mm 025	025	025	025	025
External db.	mm	1.2	1.2	1.2	1.2
Dimension (W x D x H)	mm	700 x 615 x 200	700 x 615 x 200	900 x 615 x 200	1100 x 615 x 200
Package	mm	893 x 743 x 305	893 x 743 x 305	1123 x 743 x 305	1323 x 743 x 305
Net weight/Gross weight	kg	29/30	29/30	27/36	32/41
Loading quantity	40' GP unit	312	273	217	175
	40' HP unit	312	312	248	200

Model	GMV-N56U/G-T	GMV-N71U/C-T	GMV-N140U/C-T	GMV-N280U/C-T	GMV-N560U/C-T
Capacity	Cooling kW 3.6	7.1	14.0	28.0	56.0
Power supply	V/Ph/Hz	220-240V ~ 50Hz & 208-230V ~ 60Hz			
Detailed capacity of ex-factory	Cooling kW 6.35	6.35	6.35	6.35	6.35
Power consumption	W	0.18	0.22	0.23	0.41
Airflow volume(H/M/L)	m <sup>3</sup> /h	10.0 ~ 4.0	10.0 ~ 4.0	15.0 ~ 6.0	15.0 ~ 6.0
Rated current	A	30/28/25	30/28/25	33/31/28	35/33/30
ESP	Pa	06.35	06.35	06.35	06.35
Sound pressure level(H/M/L)	dB(A)	09.52	012.1	012.1	015.9
Connecting pipe	Liquid mm 025	025	025	025	025
External db.	mm	1.2	1.2	1.2	1.2
Dimension (W x D x H)	mm	700 x 615 x 200	700 x 615 x 200	900 x 615 x 200	1100 x 615 x 200
Package	mm	893 x 743 x 305	893 x 743 x 305	1123 x 743 x 305	1323 x 743 x 305
Net weight/Gross weight	kg	29/30	29/30	27/36	32/41
Loading quantity	40' GP unit	312	273	217	175
	40' HP unit	312	312	248	200

# Indoor Unit

## Fresh Air Processing Indoor Unit

Model	GMV-N560U/C-T	GMV-N140U/C-T	GMV-N280U/C-T	GMV-N560U/C-T	GMV-N140U/C-T	GMV-N280U/C-T	GMV-N560U/C-T	GMV-N140U/C-T	GMV-N280U/C-T	GMV-N560U/C-T	GMV-N140U/C-T	GMV-N280U/C-T
Capacity	Cooling kW 840	140	140	140	140	140	140	140	140	140	140	140
Power supply	V/Ph/Hz	220-240V ~ 50Hz & 208-230V ~ 60Hz										
Detailed capacity of ex-factory	Cooling kW 840	140	140	140	140	140	140	140	140	140	140	140
Power consumption	W	019.05	019.05	019.05	019.05	019.05	019.05	019.05	019.05	019.05	019.05	019.05
Airflow volume(H/M/L)	m <sup>3</sup> /h	245 x 500 x 120	245 x 500 x 120	245 x 500 x 120	245 x 500 x 120	245 x 500 x 120	245 x 500 x 120	245 x 500 x 120	245 x 500 x 120	245 x 500 x 120	245 x 500 x 120	245 x 500 x 120
Rated current	A	038.1	038.1	038.1	038.1	038.1	038.1	038.1	038.1	038.1	038.1	038.1
ESP	Pa	539 x 461 x 247	539 x 461 x 247	539 x 461 x 247	539 x 461 x 247	539 x 461 x 247	539 x 461 x 247	539 x 461 x 247	539 x 461 x 247	539 x 461 x 247	539 x 461 x 247	539 x 461 x 247
Sound pressure level(H/M/L)	dB(A)	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0
Connecting pipe	Liquid mm 025	025	025	025	025	025	025	025	025	025	025	025
External db.	mm	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5
Dimension (W x D x H)	mm	246 x 500 x 120	246 x 500 x 120	246 x 500 x 120	246 x 500 x 120	246 x 500 x 120	246 x 500 x 120	246 x 500 x 120	246 x 500 x 120	246 x 500 x 120	246 x 500 x 120	246 x 500 x 120
Package	mm	334 x 284 x 111	334 x 284 x 111	334 x 284 x 111	334 x 284 x 111	334 x 284 x 111	334 x 284 x 111	334 x 284 x 111	334 x 284 x 111	334 x 284 x 111	334 x 284 x 111	334 x 284 x 111
Net weight/Gross weight	kg	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0
Loading quantity	40' GP unit	88	88	88	88	88	88	88	88	88	88	88
	40' HP unit	98	98	98	98	98	98	98	98	98	98	98

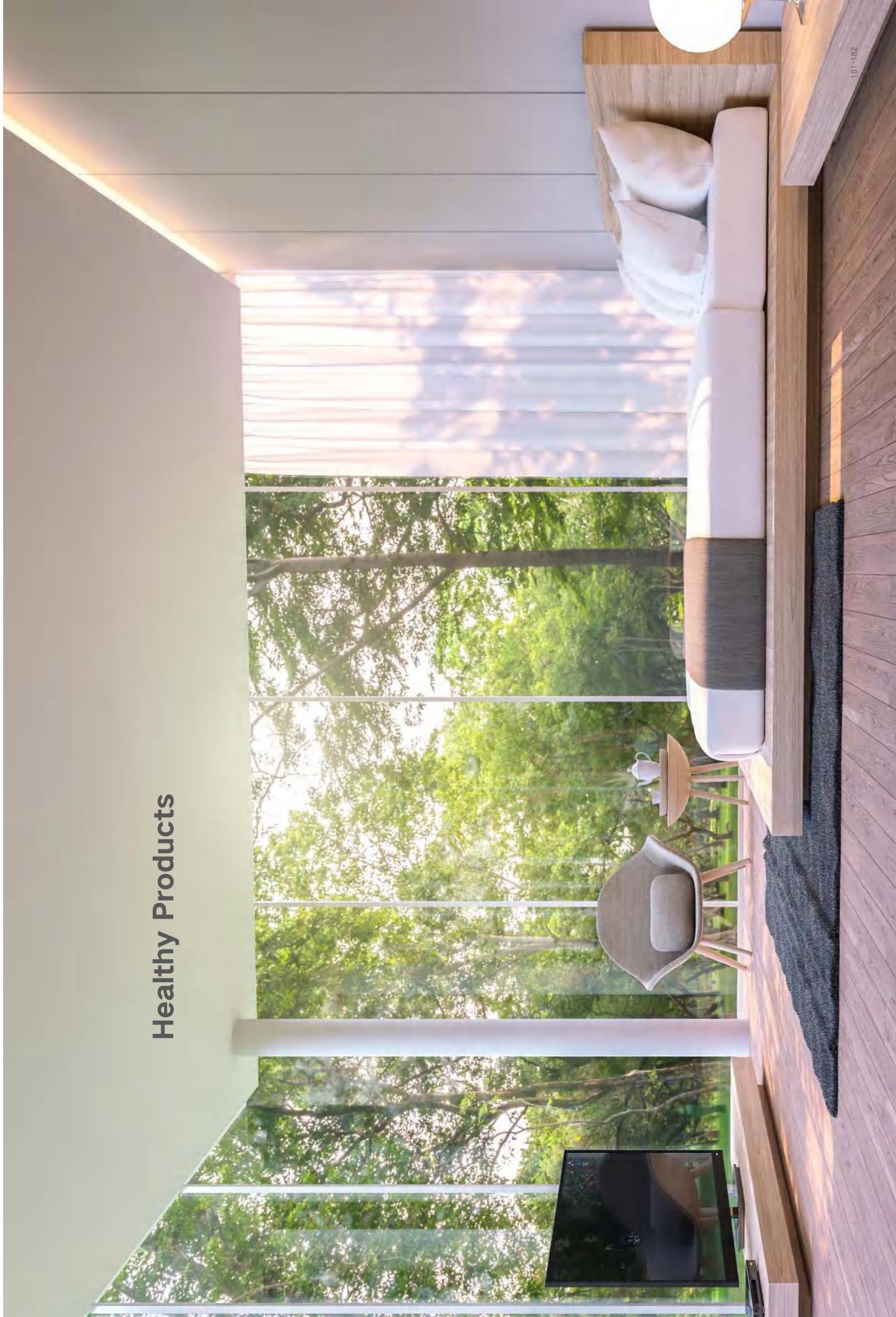
## Fresh Air Processing Indoor Unit

Model	GMV-NDX28P/	GMV-NDX140P/	GMV-NDX100P/	GMV-NDX250P/	GMV-NDX280P/	GMV-NX450P/
Capacity	Cooling kW 12.5	14.0	22.4	25.0	28.0	45.0
Power supply	V/Ph/Hz	220-240V ~ 50Hz & 208-230V ~ 60Hz				
Detailed capacity of ex-factory	Cooling kW 12.5	14.0	22.4	25.0	28.0	45.0
Power consumption	W	200/350	200/350	400/760	520/860	1240
Airflow volume(H/M/L)	m <sup>3</sup> /h	150/50-200	150/50-200	200/50-300	200/50-300	200
Rated current	A	1.5/2.0	1.5/2.0	2.5/4.3	3.1/4.9	3.4
ESP	Pa	46/40-50	46/40-50	45/45-54	47/47-54	58
Sound pressure level(H/M/L)	dB(A)	09.52	09.52	09.52	09.52	09.52
Connecting pipe	Liquid mm 025	025	025	025	025	025
External db.	mm	2.5	2.5	2.0	2.0	3.0
Dimension (W x D x H)	mm	1400 x 700 x 300	1400 x 700 x 300	1483 x 791 x 385	1483 x 791 x 385	1700 x 1006 x 50
Package	mm	1601 x 813 x 395	1601 x 813 x 395	1578 x 883 x 472	1578 x 883 x 472	1893 x 1463 x 838
Net weight/Gross weight	kg	54/61	54/61	82/104	82/104	208/266
Loading quantity	40' GP unit	98	98	65	65	16
	40' HP unit	98	98	65	65	16

Note:  
 1. Rated cooling capacity test conditions: Indoor 35°C DB/33°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 0°C DB / -2.9°C WB.  
 4. As for power consumption column, the left side of 'r' is the rated power, and the right side is the max. power.  
 5. External static pressure: the left side of 'r' is the static pressure of a standard unit while the right side is the static pressure option of a non-standard unit.  
 6. Input current: the left side of 'r' is the rated current while the right side is the maximum current.  
 7. Input current: the left side of 'r' is the rated current while the right side is the maximum current.  
 8. As to noise: the left side of 'r' is the noise value under rated static pressure while the right side is the noise range with the change of static pressure.



# Healthy 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



°C/°F switch



Centralized control



Weekly timer

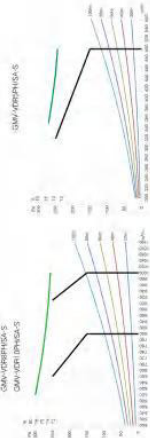


Child lock

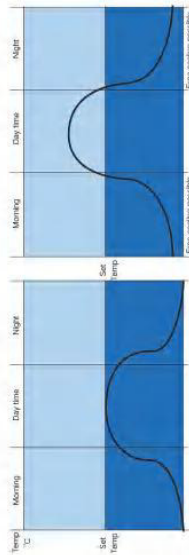
» **High-efficiency HR module:** They are built with heat exchange chips for efficient energy recovery on the air discharge side. When they are in use, other air conditioning equipment will consume less power.



» **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.



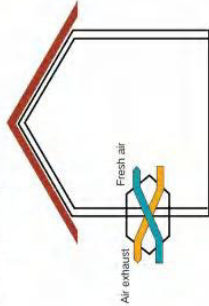
» **Free cooling:** When outdoor temperature is lower than the set temperature, units can automatically introduce the fresh outdoor air to make the room cooler. In transition season, free cooling can always be valid; under large temperature difference of day and night in summer, the free cooling mode 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 positive pressure, which will help guarantee room cleanliness. 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).

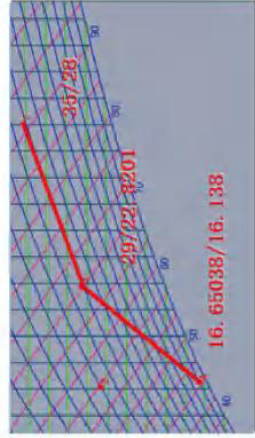


» **Linked control:** Units can be connected to other indoor units in the same CAN and HBS networks for linked control.



» **Cooling and heating functions:** With fan coils, they have cooling and heating functions like common air conditioners. For example: Under the condition of 35°C (RH60%) for outdoor temperature, 27°C (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°C, and then the fresh air is further cooled down and dehumidified by the evaporator, so that the fresh air reaches the appropriate temperature before entering the room.

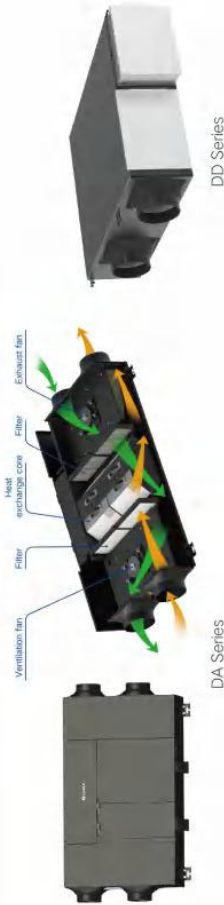
» **Multiple operation modes:** Total heat exchange mode: There is heat exchange at the fresh air side and air discharge side for efficiency energy recovery. By-pass mode: Ventilation without heat exchange. Air discharge mode: Only air discharge side is turned on for ventilation.



Model	GMV-VDRSPHISA-S		GMV-VDRBPHISA-S		GMV-VDR10PHISA-S	
	220V-240	50/60	220V-240	50/60	220V-240	50/60
Rated voltage	V		V		V	
Rated frequency	Hz	8.5	Hz	14.5	Hz	14.5
Cooling capacity	kW	4.0	kW	12.0	kW	12.0
Heating capacity	kW	0.27	kW	0.44	kW	0.64
Power input	kW	1.65	kW	2.73	kW	3.86
Current input	A	204	A	471	A	889
Airflow volume	m <sup>3</sup> /h	500	m <sup>3</sup> /h	800	m <sup>3</sup> /h	1000
ESP	Pa	150	Pa	150	Pa	150
Rated Thermal exchange efficiency	%	73	%	74	%	73
Indoor unit	mm	65	mm	69	mm	69
Outdoor unit	mm	1700 × 860 × 240	mm	1800 × 1185 × 390	mm	1800 × 1185 × 390
Package (W × D × H)	mm	1895 × 1138 × 555	mm	2110 × 1440 × 967	mm	2110 × 1440 × 967
Net weight/gross weight	kg	120/175	kg	189/225	kg	189/225
Ventilator Outer diameter	mm	200	mm	250	mm	250
Loading quantity	unit	20/46/44	unit	16/32/32	unit	16/32/32
Standard wired controller				XE10-S3/H		XE10-S3/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.



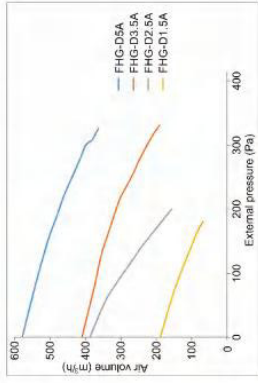
### Multi-step Air Volume Control

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

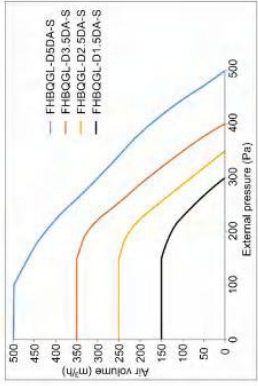


### Constant Air Volume Control Technology\*

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%.



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

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%.



### Multiple Control Methods

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

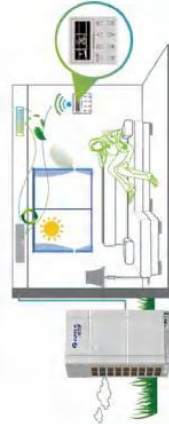
#### » Manual Control

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 Gree 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 energy-saving.



## 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)	mm	834×834×60	
Outline Package	mm	873×873×180	
Dimension of the connection	mm	150	
Net weight/Gross weight	kg	2, 2,171.7	

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 type IDU
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



### 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	m³/h	150	250	350
ESP	Pa	100	100	100
Temperature exchange efficiency	%	78	75	65
Power supply	V/Ph/Hz	220-240 /1/ 50/60	220-240 /1/ 50/60	220-240 /1/ 50/60
Power input	kW	0.05	0.1	0.15
Sound power level	dB	39	44	49
Dimension (W×D×H)	mm	1160×700×220	1160×700×220	1200×785×240
Outline Package	mm	1468×873×285	1468×873×285	1528×973×305
Net weight/Gross weight	kg	50/58.5	50/58.5	60/70.5
Loading quantity	20' GP/40' GP/40' HQ	unit	82/172/195	57/121/140

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	m³/h	150	250	350
ESP	Pa	100	100	100
Temperature exchange efficiency	%	80	75	76
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
Power input	kW	0.050	0.105	0.155
Sound power level	dB	43	50	55
Dimension (W×D×H)	mm	1160×700×220	1160×700×220	1200×785×240
Outline Package	mm	1468×873×285	1468×873×285	1528×973×305
Net weight/Gross weight	kg	50/58.5	50/58.5	60/70.5
Loading quantity	40' GP/40' HQ	unit	172/195	121/140
SEC class		A	B	-

### DD Series

Model	FHBQGL-D1.5DD-S	FHBQGL-D2.5DD-S	FHBQGL-D3.5DD-S	FHBQGL-D5DD-S
Air flow volume	m³/h	150	250	350
ESP	Pa	100	100	100
Efficiency exchange	%	71	62	60
Heating efficiency	%	55	55	55
Cooling efficiency	%	55	55	55
Power supply	V/Ph/Hz	220-240 /1/ 50/60	220-240 /1/ 50/60	220-240 /1/ 50/60
Power input	kW	0.095	0.135	0.180
Sound pressure level	dB(A)	33	37	38
Dimension (W×D×H)	mm	660×850×220	660×850×220	900×920×240
Outline Package	mm	1045×893×285	1045×893×285	1045×893×285
Net weight/Gross weight	kg	34/41	34/41	48/59
Loading quantity	20' GP/40' GP/40' HQ/unit	96/208/234	96/208/234	72/160/180

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



# Intelligent Control

## Controller Function Lineup

Function	Classic wired controller		Large matrix wired XEZO-24H	Remote controller		Remote Signal Receiver Panel ES1	Linkage Controller LEGO-24H1 95*63
	XEZA-24H 112*112 Positive segment LCD	XEZA-24HC 112*112 Positive segment LCD		YAP1F Positive segment LCD	YAP1F7		
Dimensions (mm)			112*112			86*86	LED
Display	Matrix LCD	Matrix LCD	Matrix LCD	Matrix LCD	Matrix 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 (IDU can be controlled by two wired controllers)	✓	✓	✓	✓	✓	✓	✓
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)	✓ (It can operate with the master wired controller as an auxiliary device)	✓ (It can operate with the master wired controller as an auxiliary device)
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)	✓ (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	✓	✓	✓	✓	✓	✓	✓
Weekly timer	✓	✓	✓	✓	✓	✓	✓
Child lock (buttons lock)	✓	✓	✓	✓	✓	✓	✓
Up/Down swing	✓	✓	✓	✓	✓	✓	✓
Left/Right swing	✓	✓	✓	✓	✓	✓	✓
Sleep	✓	✓	✓	✓	✓	✓	✓
Filter cleaning indication	✓	✓	✓	✓	✓	✓	✓
Save	✓	✓	✓	✓	✓	✓	✓
X-Fan	✓	✓	✓	✓	✓	✓	✓
Quiet	✓	✓	✓	✓	✓	✓	✓
Absence (8°C 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)	✓	✓	✓	✓	✓	✓	✓
Room temperature query	✓	✓	✓	✓	✓	✓	✓
Set back	✓	✓	✓	✓	✓	✓	✓
Independent swing for cassette units	✓	✓	✓	✓	✓	✓	✓
APP control	✓	✓	✓	✓	✓	✓	✓
Temperature control with a precision of 0.5°C	✓	✓	✓	✓	✓	✓	✓

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

## Controller Function Lineup

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 systems	16	16
Screen size	1380 x 1000	4.3" inch
Touch mode	Capacitor touch	480 x 272
Power supply	100-240V AC	Capacitor touch
Dimensions (WxHxD) (mm)	185 x 128 x 11	100-240V AC
On/Off setting	✓	128 x 66 x 11
Mode setting	✓	✓
Temperature setting	✓	✓
Fan speed setting	7 fan speeds	7 fan speeds
Swing setting	✓	✓
Ambient temperature setting	✓	✓
Ambient temperature display	✓	✓
'C/F' display	✓	✓
DST	✓	✓
Clock display	✓	✓
Authority management	✓	✓
Group management	✓	✓
Schedule management	✓	✓
Special schedule	✓	✓
Emergency stop	✓	✓
Factory reset	✓	✓
Engineering setting	✓	✓
Error records	✓	✓
IDU sort	✓	✓
Name and icon setting	✓	✓
Run time	✓	✓
Data export	✓	✓
Language	<ul style="list-style-type: none"> <li>• English</li> <li>• Simplified Chinese</li> <li>• Traditional Chinese</li> <li>• Spanish</li> <li>• Portuguese</li> </ul>	<ul style="list-style-type: none"> <li>• English</li> <li>• Simplified Chinese</li> <li>• Traditional Chinese</li> <li>• German</li> </ul>
Applicable units	<ul style="list-style-type: none"> <li>• German</li> <li>• Russian</li> <li>• Italian</li> <li>• Dutch</li> </ul>	<ul style="list-style-type: none"> <li>• English</li> <li>• Simplified Chinese</li> <li>• Traditional Chinese</li> <li>• German</li> </ul>
	<ul style="list-style-type: none"> <li>• Air conditioner</li> <li>• Water heating units</li> <li>• Floor heating units</li> <li>• Fresh air units</li> </ul>	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;
- 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 dehumidifying 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°C;
- 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

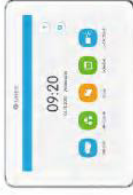
### Commissioning Tool CE42-24/F(C) (Debugger)

- 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;
- With unit decryption function and barcode two-dimensional code display;
- 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;
  - 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 indoor unit control (on/off, mode, temp setting, fan speed, quiet, swing control, etc.).



### 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;
- 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

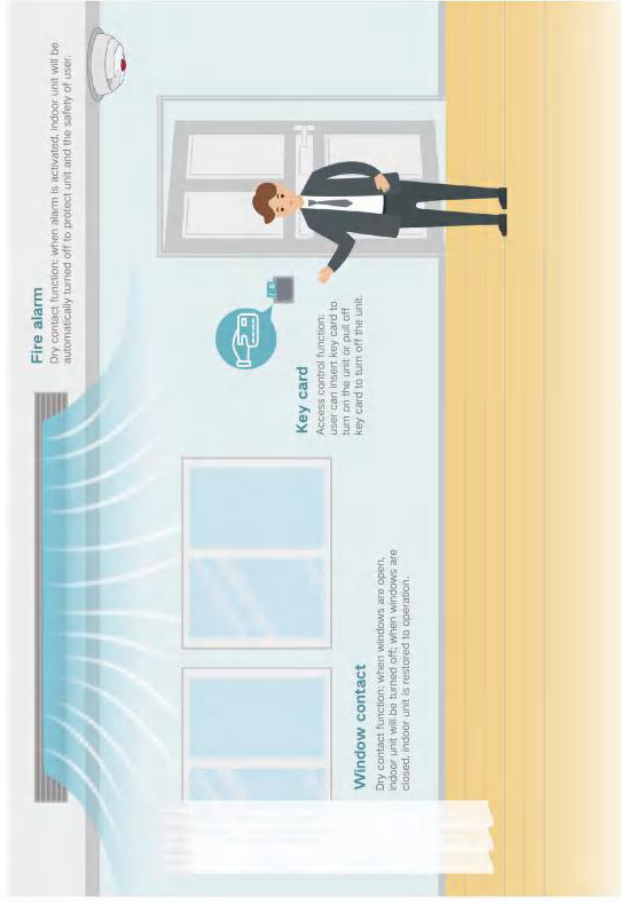
- Receive common remote controller functions;
- Simple appearance and integrated design;
- Precise set temperature control with the precision down to 0.5°C (remote controllers with a temperature control precision of 0.5°C are required);
- Up to 2 controllers for 16 units, which is more flexible for use; 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 hotel, 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.

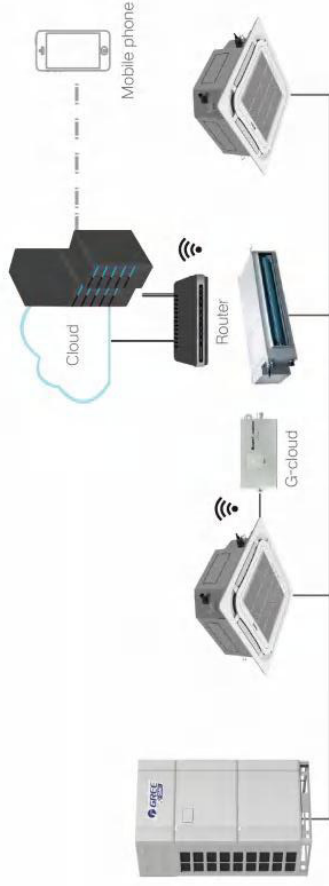
Model	Linkage Controller LE60-24/H1
Appearance	
Wiring diagram	 Note: It is used with different models of wind controller or independently connects indoor unit for independent.
Access control interface	AC100-240V/DC5-24V
Dry contact interface	2 groups
Dimensions(H × W × D)(mm)	63 × 94.5 × 29
Power supply	18V DC(supply power by indoor unit)
Applicable range	All series of VRF



## G-cloud

G-cloud is a compact WiFi controller, which connects G-cloud to the corresponding interface of any one of the multi VRF indoor units. Use mobile phone to download the "Gree+" 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 G-cloud to realize the control of all indoor units under the system via mobile phone.

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



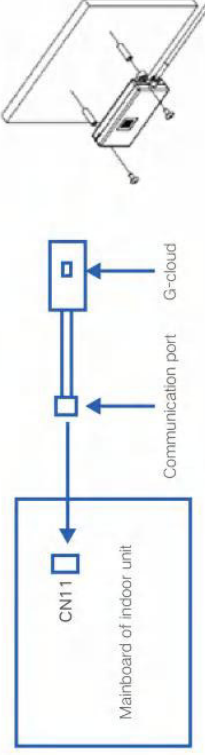
One G-cloud can realize the control of up to 80 sets of indoor units in a system

### > "Gree+" APP Control

The "Gree+" 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

G-cloud is small in size and flexible in installation. You can connect the G-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 Ultimate

A model selection system is a necessary tool for the sales of the VRF system in the overseas market. In order to meet the demand of the overseas market for the model selection system, the competitive strength of Gree products in the overseas market has been improved. Gree 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 optimal 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 arrangement, 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.



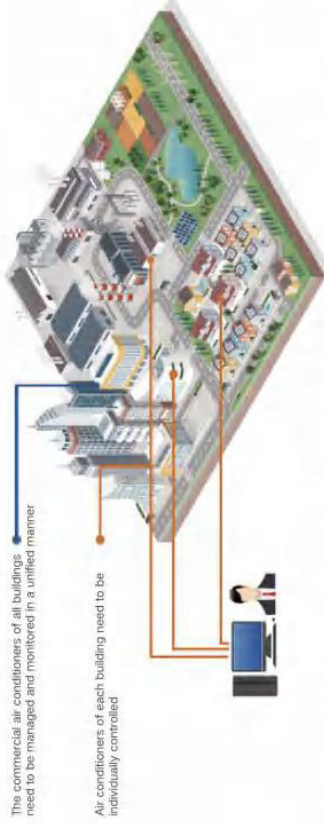
### Multivariate Model Selection

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

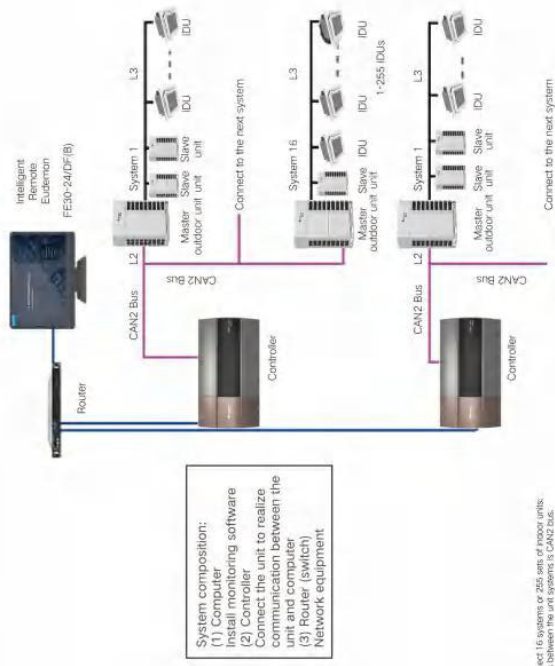
Intelligent Remote Eudemon provides intelligent operation and maintenance services based on the cloud platform, meeting the demands of integrated monitoring of equipment in multiple locations.



This commercial air conditioners of all buildings need to be managed and monitored in a unified manner

Air conditioners of each building need to be individually controlled

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.



System composition:  
 (1) Computer programming software  
 (2) Controller  
 Connect the unit to realize communication between the unit and computer  
 (3) Router (switch)  
 Network equipment

Notes:  
 (1) The controller can connect 16 systems or 256 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.



#### Intelligent Physical Examination

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



### Smart Operation and Maintenance

#### VIP Exclusive Service

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



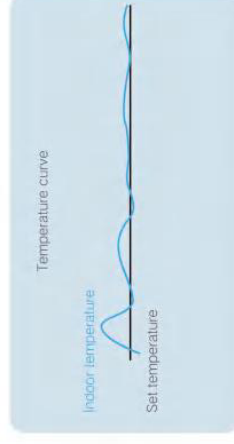
#### Schedule Management

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



### Green Assistant

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



### Intelligent Control

#### Smart Scenes

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.



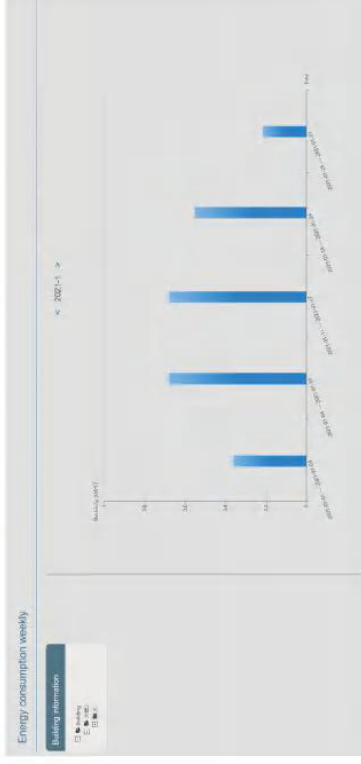
#### Soft Start

Delay start of equipment in batches to avoid the impact to the grid in centralized control.



### 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.



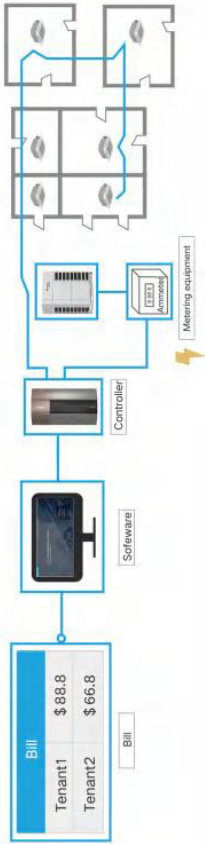
### Temperature Field

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



## Building Protocol Gateway

**Intelligent Billing**  
 Intelligent Billing is a solution to power consumption calculation and billing specialized for VRF units. This system adopts Gree's 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 No.	601				
Time	2016/08/01-2016/08/31				
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	EM3255	France	Australia, Europe
5	Wasion	DTS343	China	China

### Modbus Gateway

Name	Model	Key Parameters	Application	Photo
VRF Protocol Gateway	ME30-24/D1 (BM)	Capacity: 255 sets of indoor units (within 16 indoor units) Protocol: Modbus RTU, Modbus TCP	It is generally used in large buildings such as office buildings, commercial streets, hospitals, and rail transit to connect to BAS to achieve centralized management of air conditioner.	
Modbus Gateway (Mini)	ME30-24/E6(M)	Capacity: 128 sets of indoor units (within 16 indoor units) 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 smaller, 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. Gree 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.

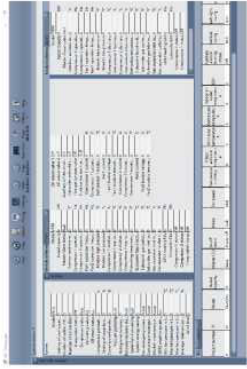
Name	Model	Key Parameters	Application	Photo
VRF Protocol Gateway	ME30-24/D1 (BM)	Capacity: 255 sets of indoor unit Protocol: BACnet	Mainly used in the docking of medium and large building automatic control projects.	

## Intelligent Debugging Software

GMV6 offers intelligent debugging software to end users for faster construction needs.

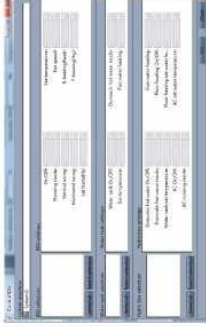
### Monitoring Functions

- 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.



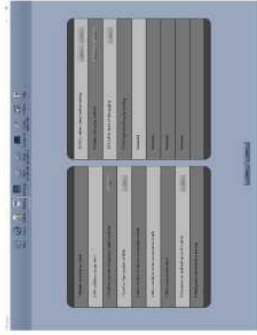
### Control Functions

- 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.



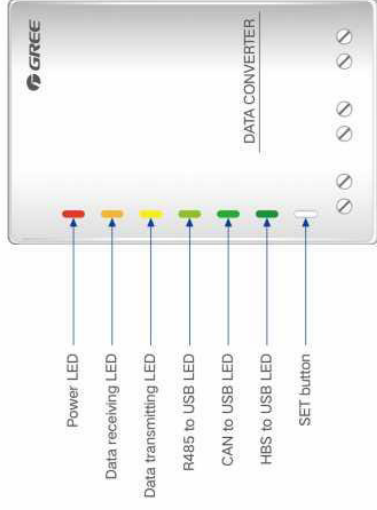
Step 1: Change Database Saving Path



Step 2: Database Save Setting

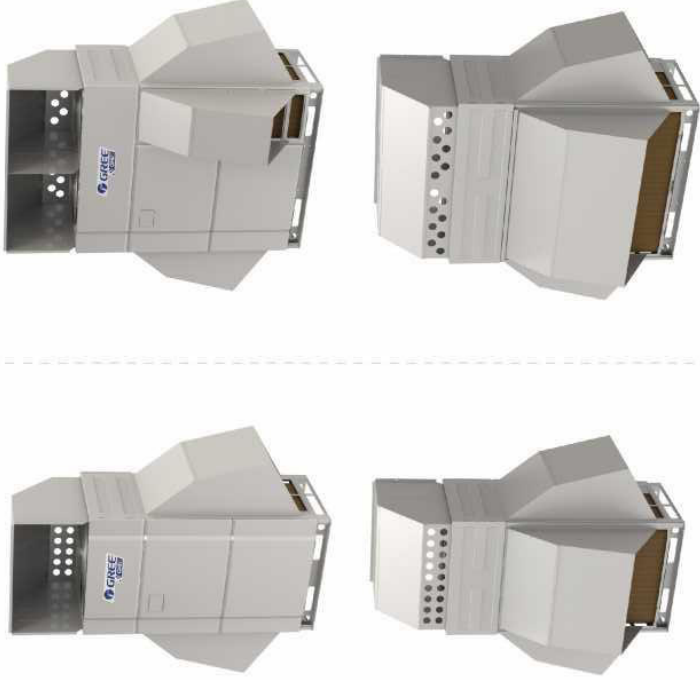
### USB Data Converter

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



## 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:



CF899

CF898

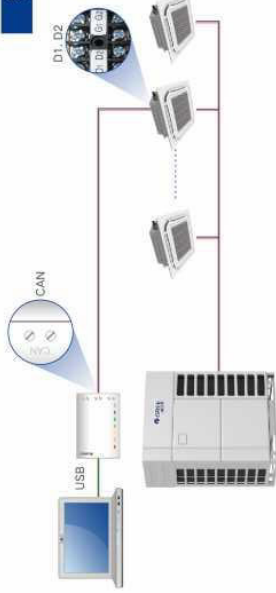
Model	CF898	CF899
Number of parts	4	5
Applicable model	GMV-224~335W/M/ **	GMV-400~680W/M/**

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.

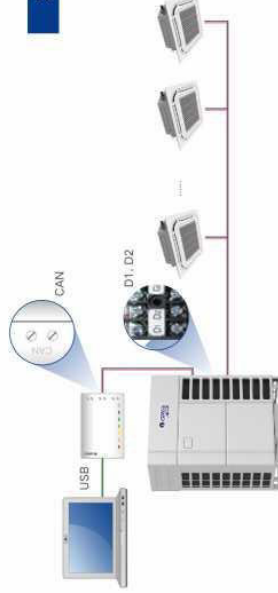
### Auto Direction of Connection Way

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

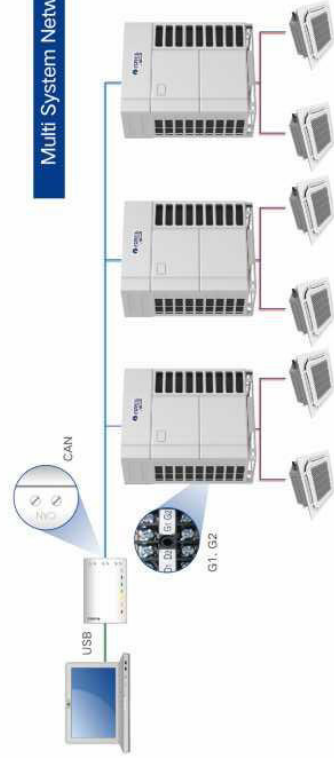
#### Single System Network



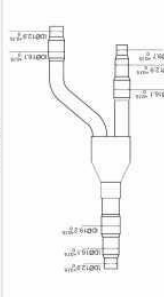
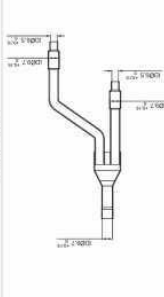
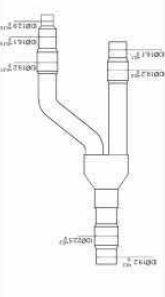
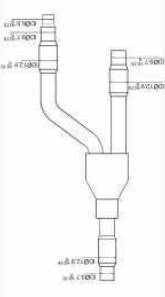
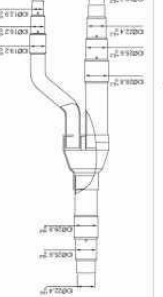
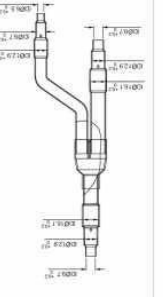
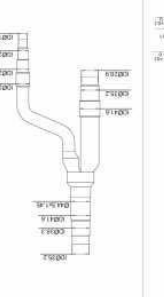
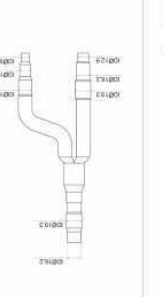
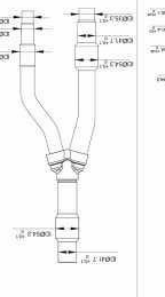
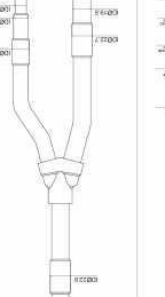
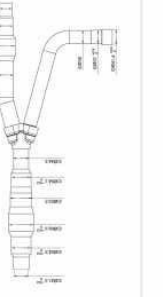

#### Single System Network

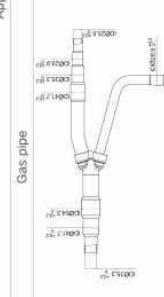
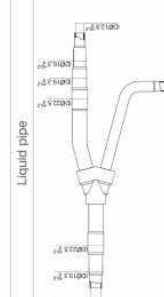
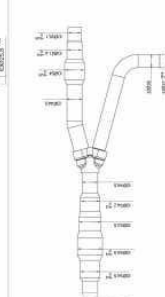
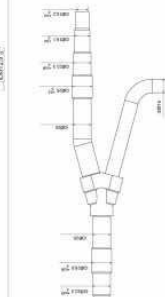


#### Multi System Network



## Branching Joint (For GMV6 and GMV X units)

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

For Outdoor Units		Appearance	
Model	Gas pipe	Liquid pipe	
ML01/A			
ML02/A			

# Branching Joint (For GMV6 HR units)

For Outdoor Units and Mode Exchanger				
Model	Total capacity of the downstream indoor units X(kW)	Appearance	Liquid pipe	
		High-pressure gas pipe	Low-pressure gas pipe	
FO01Na/A	$X \leq 5.0$			
FO02Na/A	$5.0 < X \leq 22.4$			
FO03Na/A	$22.4 < X \leq 28.0$			
FO04Na/A	$28.0 < X \leq 68$			
FO05Na/A	$68 < X \leq 96$			
FO06Na/A	$96 < X \leq 135$			
FO07Na/A	$135.0 < X$			

For Indoor Units			
Model	Sort	blueprint	
FQ14/H1	Gas pipe		
	Liquid pipe		
FQ18/H1	Gas pipe		
	Liquid pipe		
FQ18/H2	Gas pipe		
	Liquid pipe		

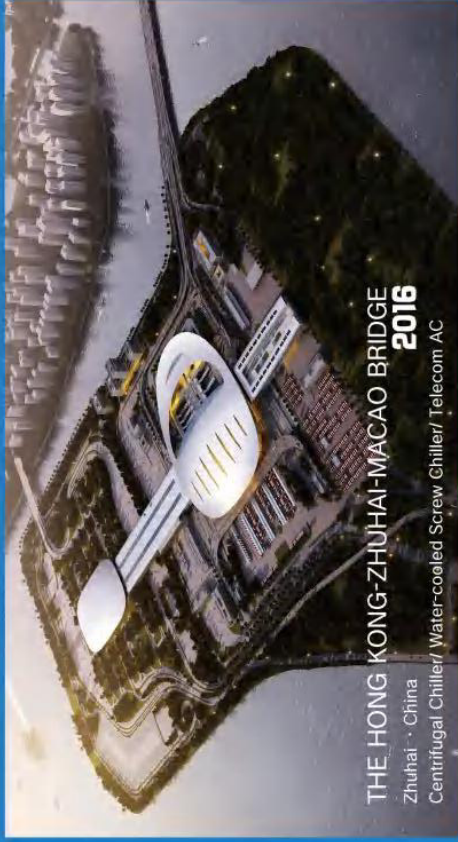
  

Total rated capacity of downstream indoor units X(kW)	Gas pipe(mm)	Liquid pipe(mm)	Model of manifold pipe
$X \leq 40.0$	$\leq \phi 25.4$	$\leq \phi 12.7$	FQ14/H1
$X \leq 68.0$	$\leq \phi 28.6$	$\leq \phi 15.9$	FQ18/H1
$68.0 < X$	$\geq \phi 31.8$	$\geq \phi 19.05$	FQ18/H2





## Project References



### THE HONG KONG-ZHUHAI-MACAO BRIDGE 2016

Zhuhai · China  
Centrifugal Chiller/ Water-cooled Screw Chiller/ Telecom AC

### GWADAR PORT

**2018**

Gwadar · Pakistan  
Building Area : 35000m<sup>2</sup>  
Cooling Capacity : 11942RT  
Product : GMV



### INSTITUTE OF INTERNATIONAL RELATIONS

**2018**

Luanda · Angola  
Building Area : 14406.92m<sup>2</sup>  
Cooling Capacity : 569RT  
Product : GMV



### MALL OF PALESTINE

**2020**

Palestine · Ramallah  
Building Area : 60000m<sup>2</sup>  
Cooling Capacity : 1400RT  
Product : GMV/Rooftop



### AVIC ASTORIA COLOMBO

**2017**

Colombo · Sri Lanka  
Building Area : 80000m<sup>2</sup>  
Cooling Capacity : 5118RT  
Product : GMV



### ETHIOPIA BOLE INTERNATIONAL AIRPORT

**2020**

Addis Ababa · Ethiopia  
Building Area : 13954m<sup>2</sup>  
Cooling Capacity : 672RT  
Product : GMV/Rooftop/Air-cooled chiller  
/FCU



### THE POINTE HOTEL

**2020**

Nassau · Bahamas  
Building Area : 65000m<sup>2</sup>  
Cooling Capacity : 127RT  
Product : GMV



### 2016 RIO DE JANEIRO OLYMPICS GAMES

Rio de Janeiro · Brazil  
GMV