



# GMV5

**GREE MULTI VARIABLE**  
All DC Inverter VRF Air Conditioning System



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# GMV5 DC INVERTER

GMV5 DC Inverter Multi VRF System with its high-efficient inverter compressors have four exciting features which are different from those found on traditional inverter air conditioners: more energy-saving and comfortable, more reliable and more precise operation, providing users with the best air conditioning experience.



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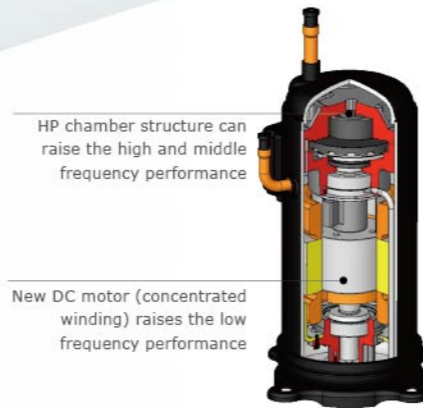
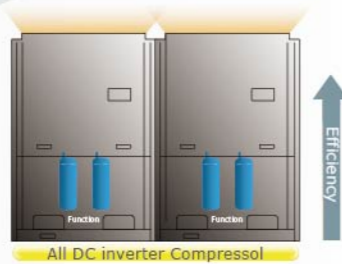
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## HIGH-EFFICIENT DC INVERTER CONTROL TECHNOLOGY

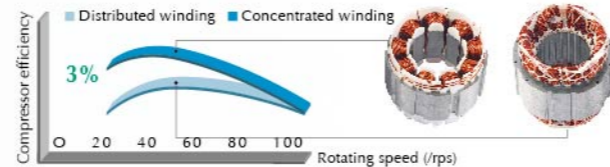
Thanks to the all DC inverter technology, the optimized system design and the precise intelligent control technology, GMV5 system operates with outstanding efficiency.

### All DC Inverter Compressor

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

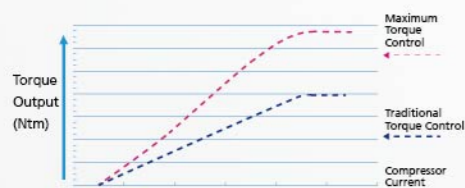


- High-efficient permagnets are installed, giving better performance than traditional D.C. inverter compressors.



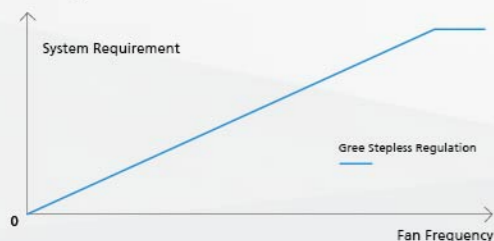
- Technology of maximum torque control with minimum current

It can reduce energy loss caused by device winding so as to realize higher efficiency.



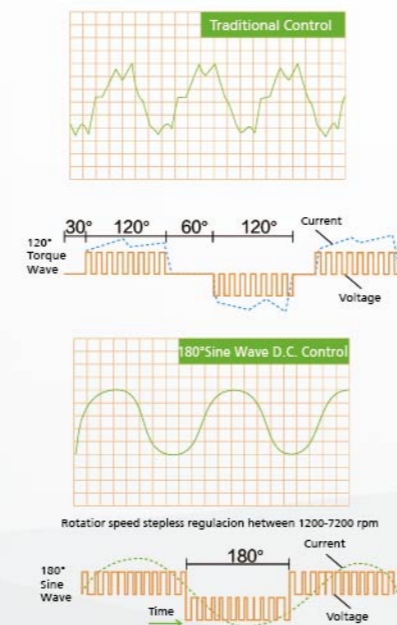
- Low-frequency torque control

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



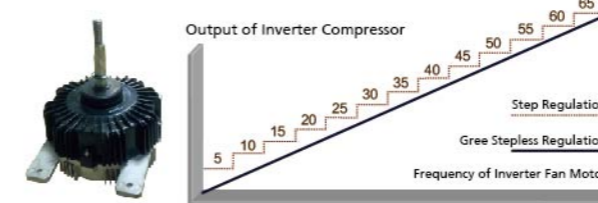
- 180° Sine Wave DC Speed Varying Technology

It can satisfy various places' demands for different temperature and is able to save a great deal of electricity and provide users with utmost comfort at the same time.

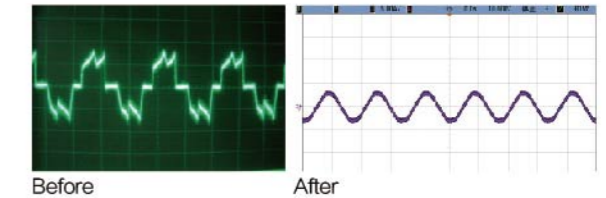


## Sensorless D.C. Inverter Fan Motor

Stepless speed regulation ranges from 5Hz to 65Hz. Compared with traditional inverter motors, it's also more efficient.



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



## New Energy-saving Control Technology

The GMV5 System has 2 modes for energy saving which can be chosen to meet different electricity demands.

- Mode 1: In auto energy saving mode, system will self-adjust parameters according to the operation status, thus to lower the cost of electricity. Up to 15% of energy can be saved.
- Mode 2: In compulsory energy saving mode, system will limit power output forcibly. Up to 20% of energy can be saved.

## Energy Auto Allocation Technology

- When total load demands more than 75% of a running unit's capacity, one more unit will automatically start;
- When total load demands less than 40% of a running unit's capacity, one unit will automatically turn off;
- Therefore, each unit shares 40%-75% of the total load.
- Experiments show that an air conditioner costs the least energy when it's operating within 40%-75% of its capacity.

	Traditional VRF	Gree GMV
Allocation Method	10HP(full load)+2HP(low load)	6HP(partial load)+6HP(partial load)
Performance Compared	Unit costs more energy and may be soon damaged.	Unit costs less energy and can always be kept in good condition.

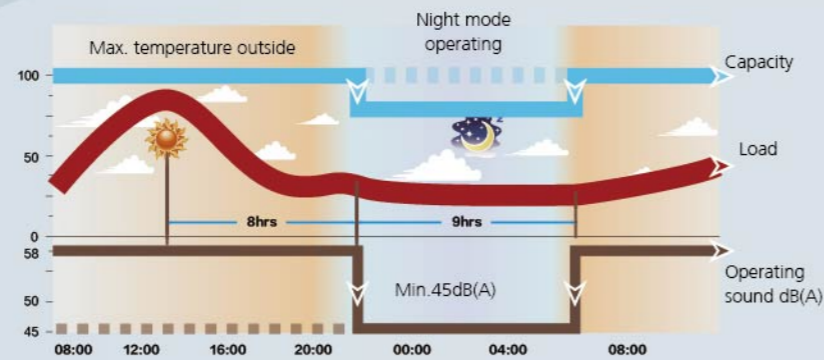
# COMFORTABLE DESIGN FOR BETTER LIFE

The GMV5 System has a wider range of working conditions. Whether it's in cool winter or hot summer, normal operation is guaranteed with the least noise, making users feel more comfortable.

## Outdoor Unit Quiet Mode

### • Quiet at Night

System can remember the highest temperature outdoors. When night comes, system will automatically turn to quiet mode. There are 9 quiet modes which can be set according to actual needs.



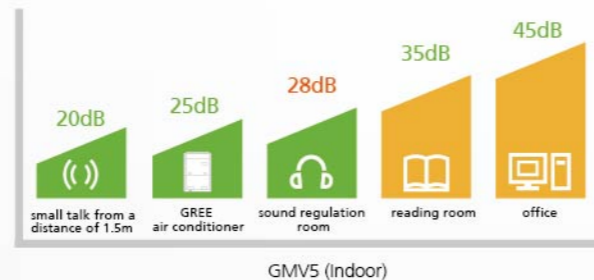
### • Quite in Compulsion

System can also be set in this mode to ensure low noise as long as unit is operating. The minimum of low noise degree is 45dB(A).



## Indoor Unit Quiet Mode

The indoor unit of the GMV5 system also adopts DC Inverter motors to realize stepless regulation. According to indoor temperature or people's actual needs, users can set this mode through the indoor wire control. The minimum of low noise degree is 25dB(A).



## Heating Fast Technology

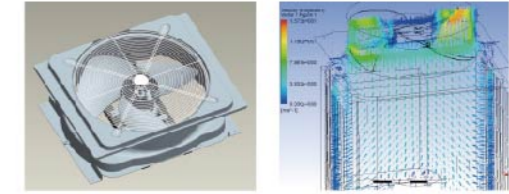
DC Compressor is first started to avoid too much electric current. When inverter compressor is on, system can be operating under high frequency to produce more heat.



## Quiet Control Design

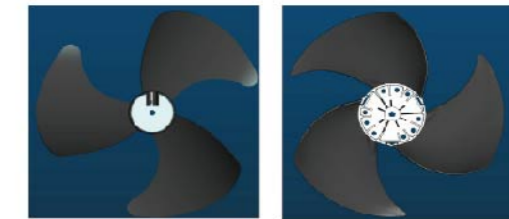
### • Optimized Bossing Design

After many times of CFD tests, a new fan bossing structure has been developed to reduce vibration of fan running. Low noise degree can drop 3dB(A).



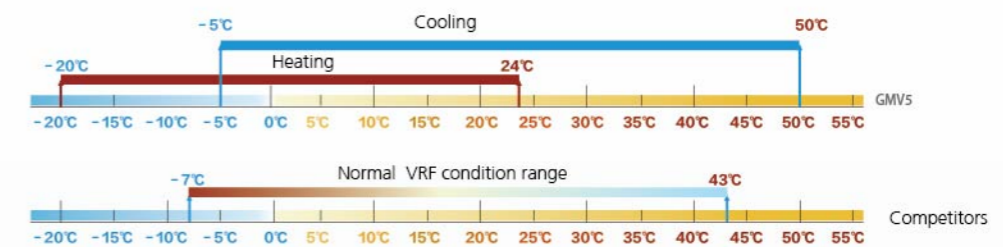
### • Aerodynamics 3-dimensional Axial Fan

Compared to normal fan, it can increase 12% of wind flow, improving efficiency as well as lowering noise.



## Wide Range of Working Condition

• The GMV5 system has improved its outdoor operation temperature range to -5°C—50°C (for cooling) and -20°C—24°C (for heating).



### • Wide Range of Voltage

The GMV5 system has improved its working voltage range to 320V-460V, which surpasses the national standard of 342V-420V. For places with unsteady voltage, this system can still be running well.



## INTELLIGENT OPERATION

Gree GMV5 intelligent operation is user-friendly for its capability to meet people's different needs.

### Season Setting

The cooling or heating mode can be deactivated during a certain season to avoid the mode conflict in case of miss operation.



Heating mode is deactivated in summer

Cooling mode is deactivated in winter

### Emergency Auto-off Control

The outdoor unit can be linked with a fire alarm signal. In case of emergency, unit can automatically turn off to avoid risk or further loss.



### Electricity Shortage Identification

The outdoor unit can receive a power signal of electricity shortage. In some places like first-class hotels, diesel generator may sometimes be used to provide electricity. In this case, this signal will be received and only VIP rooms can be provided with air conditioning service.

### Indoor Unit Repairs

When a certain indoor unit needs to be repaired, it can be power off without any interruption to the system's operation.

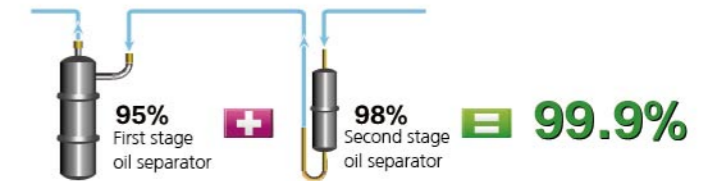


## EXCELLENT PERFORMANCE WITH ADVANCED TECHNOLOGY

Through 10 years' of study and experiments, Gree GMV5 has further upgraded to a higher level, from parts and components, controlling technology to communication technology.

### Two-grades Oil Separation Control Technology (Patented)

First-grade oil separator has a filtered expansion valve with a 98% of separation efficiency; Second-grade oil separation will separate the remained 2% refrigerant oil with 95% of separation efficiency. General Efficiency is 99.9%.



### Modular Operating

#### • Modules 12h rotation operating

The operating priority sequence of the outdoor unit modules will be changed without restart when the system accumulatively operates for 12 hours, which can maximize the service life of the system.



#### • Emergency operation

Each module is an independent sub-system, and the whole system won't fail down even if partial malfunction. Upon malfunction of any one of the modules, emergency operation can be performed after simply manual set up on the outdoor PCB switches.



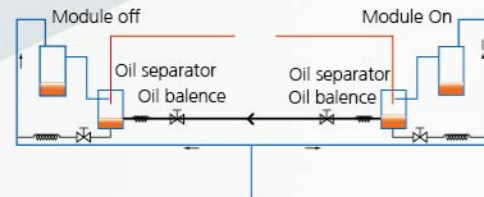
## Refrigerant Storage and Distribution Technology

The GMV5 system is designed without liquid receiver and the excess refrigerant is stored in the piping, which can minimize the refrigerant charging volume and enhance the control accuracy of the refrigerant.

## Oil Balance Control Technology

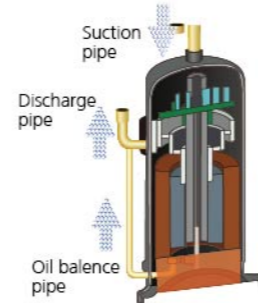
### Oil Balance between Units

Based on the actual status of each unit and compressor, system can regulate compressor's operation and realize oil balance.



### Oil Balance between Compressors

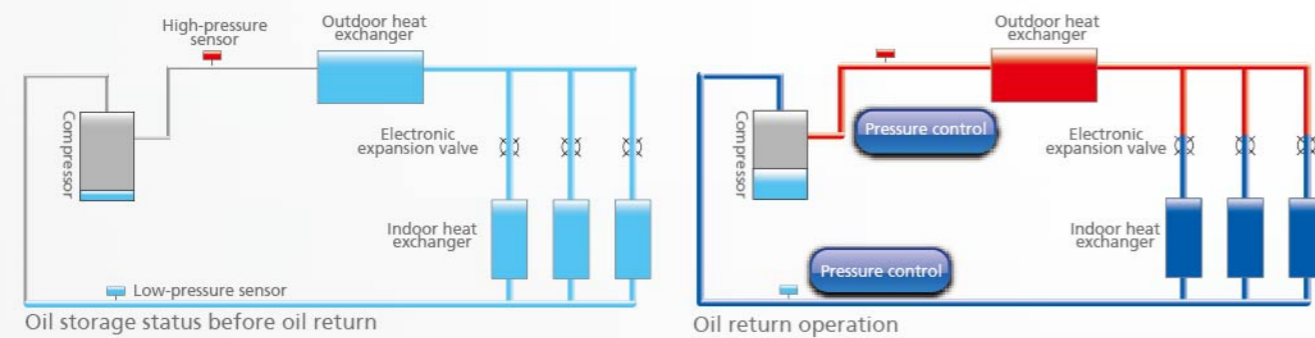
Refrigerant is taken into a compressor by an intake pipe and then runs through the cooling system. It can control oil level and the minimum oil each compressor needs and therefore realize oil balance.



## Oil return control technology

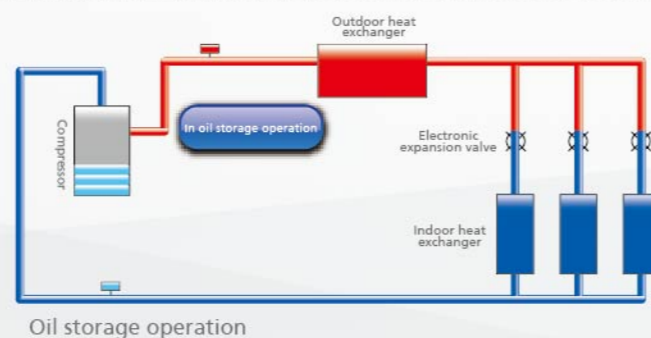
### New oil return control

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



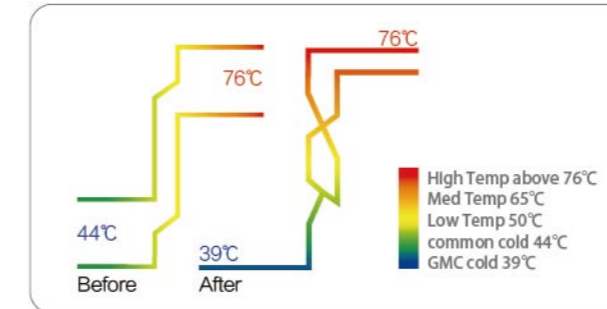
### Specialized compressor oil storage control

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

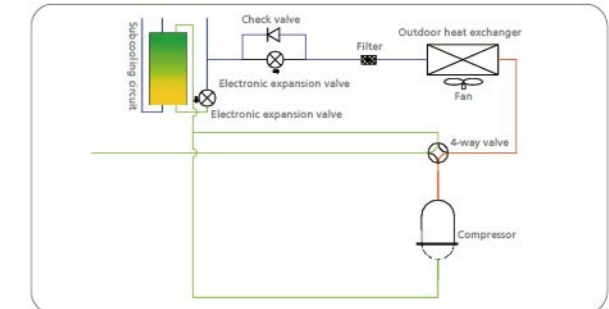


## Subcooling Control

Heat Exchange Circuit can control the first subcooling process of heat exchanger. Subcooling degree can reach 11°C.



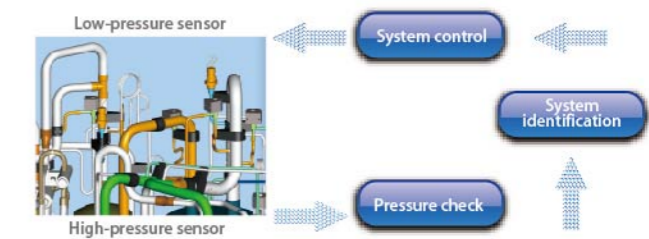
Subcooling circuit can realize 9°C second subcooling to guarantee cooling and heating performance.



## Intelligent Checking Control

### Pressure Sensor Checking Control

It can precisely check out unit's high pressure and low pressure and control the output of fan and compressor so as to make sure the system can work under the most energy-saving pressure condition.



### Temperature Sensor Checking Control

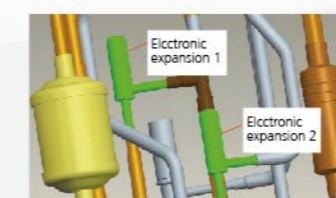
Various temperature sensors are equipped to check out ambient temperature, indoor temperature and refrigerant's evaporating temperature, from which the operating condition can be measured.

## Multi Electronic Expansion Valve Control

Electronic expansion valve is one of the four basic components in an air conditioner. Besides controlling the current, it can regulate the flow of refrigerant into an evaporator.

### Outdoor Unit

Dual electronic expansion valve with its 960 grades of regulation can precisely regulate refrigerant's flow between outdoor unit and indoor unit.



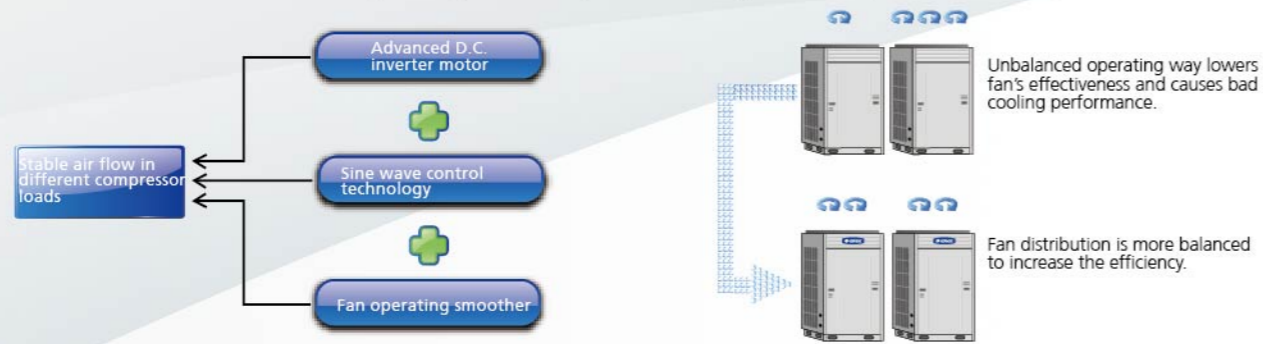
### Indoor Unit

2000 pulses electronic expansion valve can maintain the indoor temperature as it is set with a deviation of 0.3°C above or below.



## Energy-saving Output

The best heating or cooling performance can be realized in the most energy-saving way. DC inverter compressor and D.C. inverter fan will also be operating in this way to ensure high efficiency.



## EASY INSTALLATION FOR VARIOUS KINDS OF CONSTRUCTION

### ODU High Static Pressure Design

System has 4 levels of static pressure that can be set. Up to 80Pa pressure can be set for an outdoor unit. This design is especially useful when an outdoor unit needs to be placed indoors.



### Wider Choices of Location

GMV5 can realize a combination of 4 models and connect as many as 80 indoor units. It's especially applicable for business buildings or hotels.



Max.IDU connection:80sets

## Emergency Operation Function

### Emergency Function

The GMV 5 system can realize a combination of 4 outdoor unit modules. When error is occurred to one of the modules, the others will perform the emergency operation to sustain the air conditioning.

### Emergency Operation of Compressor

All the compressors in each single module are DC Inverter based, when one compressor has error, others will perform the emergency operation.

### Emergency Operation of Fan

Double-fan design ensures that one fan can still work even if the other one has error.



## Eco-friendly refrigerant R410A

### Advantages of R410A

- ▶ More excellent cooling/heating effect
- ▶ More energy saving
- ▶ Environmental protection
- ▶ The system is more reliable and durable
- ▶ Without depletion to ozone layer



ODP=0  
WITHOUT DEPLETION  
TO OZONE LAYERV

Note: At present, EU and Japan have phased out R22 refrigerant completely, while eco-friendly refrigerant R410A will be adopted.

### 1000m Pipe design, Simple Installation

The GMV5 System can be applied in different types of building construction. One of the advantages of multi VRF system is the simple pipe design, which can reduce the cost of installation and make installation much simpler.

Max. Total piping length -- 1000m\*1

Max. Actual piping length -- 165m

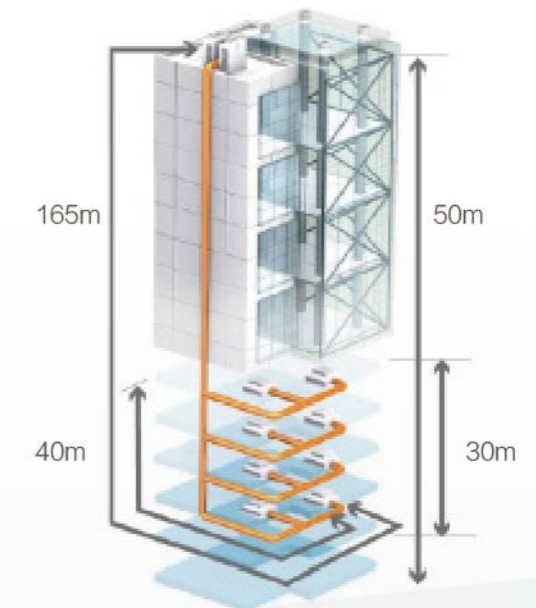
Max. height difference between indoor units -- 30m

Max. height difference between ODU and IDU units -- 50m\*2

Max. piping length from first indoor branch to the farthest indoor unit -- 40m

\*1 With limited conditions, please refer to the service manual for detail.

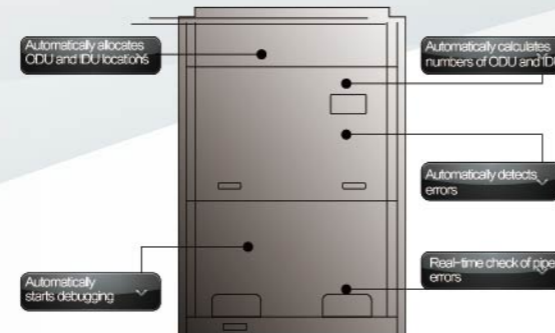
\*2 This value is based on the outdoor unit is located above the indoor unit. If the outdoor unit is located underneath the indoor unit, the value is 90m.



## Intelligent Debugging, Faster Construction

### GMV5 has 5 auto debugging features:

- Automatically allocates ODU and IDU addresses.
- Automatically calculates numbers of ODU and IDU;
- Automatically detects errors;
- Automatically starts debugging;
- Real-time check of pipe errors.



## Series Connection of Power Cords

Outdoor units are equipped with high-cap wiring boards. Power cords can be connected in series, which can make construction more convenient and also lower the cost.



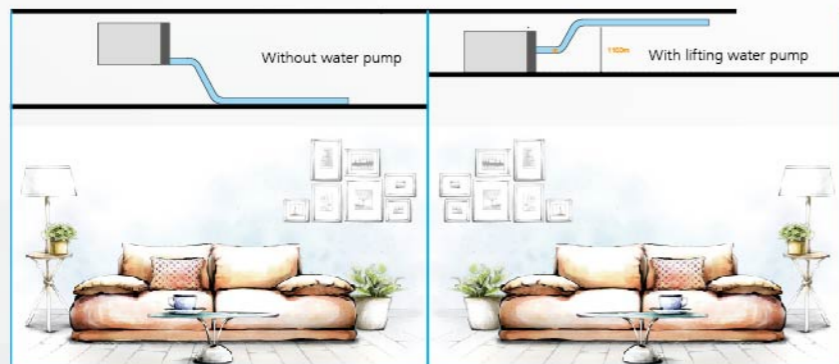
## Easier for Maintenance

Inspection panel is available for quick checking of system operation status.



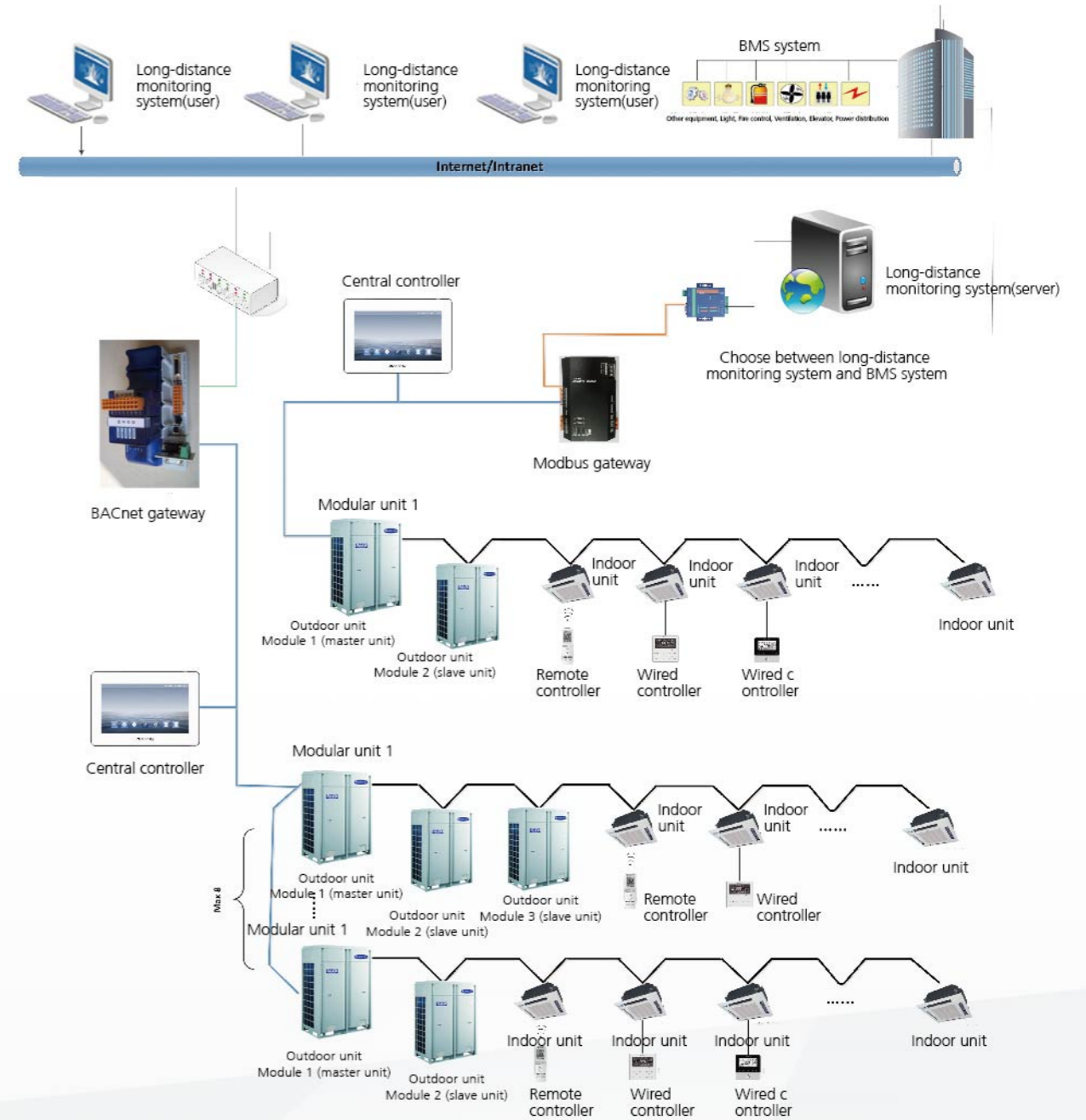
## Lifting water pump solves the problem of installation height

There are different kinds of indoor units to meet your requirement. Ultra-thin body and optional lifting water pump contribute to beautiful appearance of ceiling.



## MULTIPLE INTELLIGENT CONTROLS MANAGEMENT


Gree GMV5 provides multiple intelligent controls in order to satisfy all demands. It can control both a room and a building at the same time.





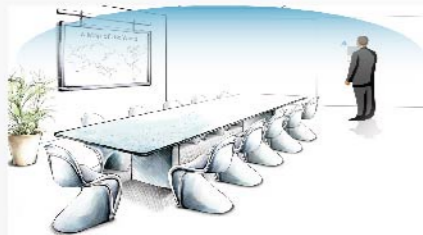
## Various Controls, More Flexible

There are two kinds of controllers: wired controller and remote controller. System has various controls for users, such as cooling, heating, dehumidifying and fan only.

Name	Outlook	Functions
Wired Controller		Liquid crystal display with black background and white words; touch pads 24 hours time setting for on/off Display of precise ambient temperature; 5 levels of fan speed; sleeping mode Cooling, dehumidifying, fan only, heating and so on Ventilation, quiet(auto quiet), light, energy-saving, cleaning, auxiliary heating, drying, memory
Remote Controller		5 modes: auto, cooling, dehumidifying, fan only and heating. 5 levels of fan speed; and other functions: strong, drying, auxiliary heating, healthy, ventilation, energy saving, sleeping mode and delay timing; fan direction can be switched to up/down, left/right; 2 quiet modes and a light control.
Hotel wired controller		Simplified function and convenient operation; With back lighting, convenient for night operation Can be switched in cooling, dry, fan and heating operation mode; five optional fan speeds; Door control system can be connected; Can receive the signal from remote controller to control the unit
Central controller		Fashionable appearance with colored touch screen for humanized operation; control 256 sets of indoor unit in maximum; single unit control, group control and central control are available; with the functions of calendar management, parameter setting, project setting, etc.

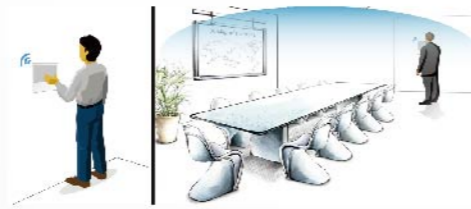
### • Single control of one unit

Each indoor unit has an independent controller.



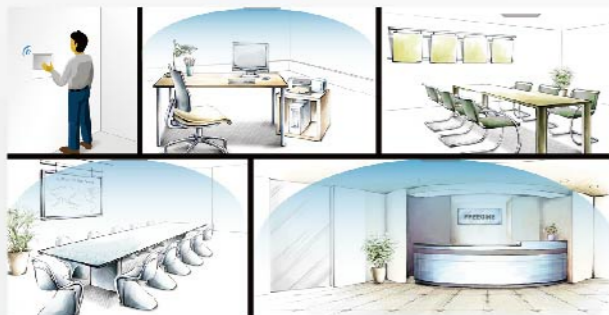
### • Multiple control of one unit

One indoor unit can be controlled by several wired controllers at different places.



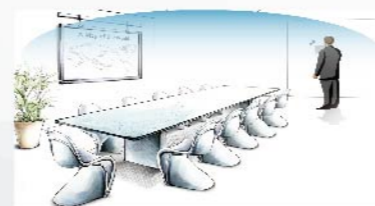
### • Central control of several indoor units

One wired controller can control as many as 16 indoor units.



### • Joint control of remote controller and wired controller

Users can control one unit with two types of controllers: a remote controller which is convenient and flexible; or a wired controller which includes every function of an air conditioner.

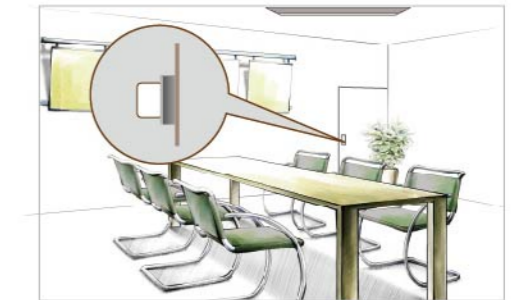
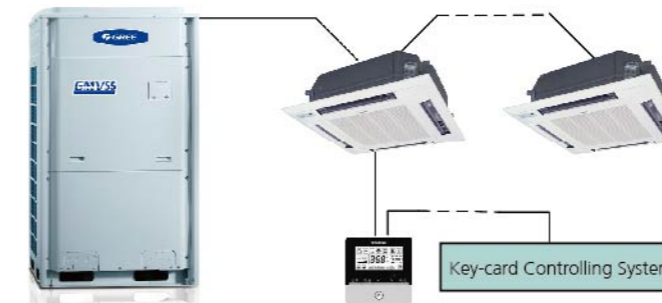


## New CAN Network Control, Better Network Performance

Performance Index	Ordinary Multi VRF Network	GMV5 D.C. Inverter CAN Network
Reliability	Software check One unit's communication error may lead to a breakdown of the whole network	Hardware check, more reliable If one unit has errors, it will exit from the network without any influence to other units.
Communication Efficiency	Low utilization Communication speed is about 10Kbps.	High utilization Communication speed is 20Kbps.
Compatibility	One main network, difficult to add new equipment	Multiple main networks, easy to add new equipment.
Communication Distance	1000m	1500m

## Wired Controllers for Hotel Management

Unit can turn on or off by inserting or removing a card. When the card is removed from a wired controller, system can remember all the setting and stop working; when the card is inserted back, system will stand by or restart in the setting last used. It will be especially useful for the service industry, like hotels and restaurants.



## BACnet gateway

- 1) The gateway is with international standard BACnet/IP protocol interface, which has passed BTL certification.
- 2) Each gateway can be connected to 8 sets of cooling systems in maximum (32 sets of outdoor unit in maximum), but indoor unit quantity can not exceed 48 sets.
- 3) Long-distance monitoring on the operation status of indoor unit and outdoor unit.
- 4) Long-distance setting of ON/OFF, mode and temperature, etc. of indoor unit.
- 5) Achieve energy saving, shielding and locking operation statuses.
- 6) Support 4 DI input and 4 DO output.



## Modbus gateway

- 1) The gateway is with Modbus protocol interface and one bus line can be connected to 255 gateways in maximum.
- 2) Each gateway can be connected to 16 sets of cooling systems in maximum (64 sets of outdoor unit in maximum), but indoor unit quantity can not exceed 128 sets.
- 3) Long-distance monitoring on the operation status of indoor unit and outdoor unit.
- 4) Long-distance setting of ON/OFF, mode, fan speed and temperature, etc. of indoor unit.
- 5) Achieve energy-saving mode and temperature limitation functions.
- 6) Achieve shielding and locking operation statuses.
- 7) Linkage control, support 5 DI and 6 DO input and output equipment linkage.



## Visualized Management

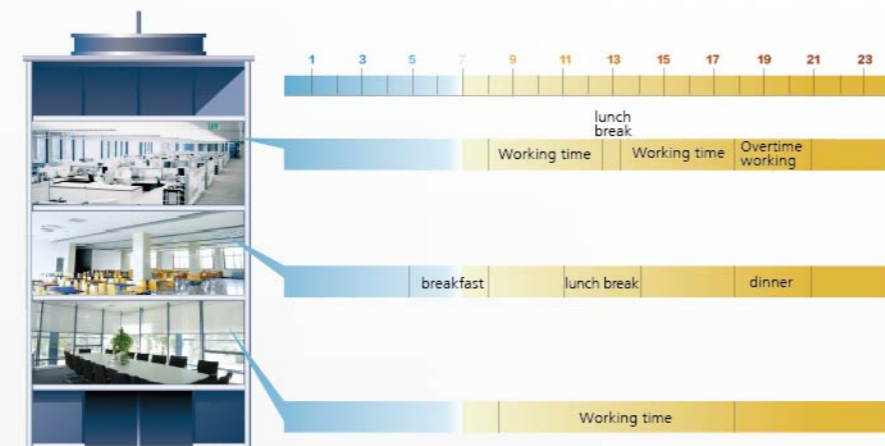
- System has a map that can display air conditioners' locations in rooms and buildings.
- System is able to measure the status and number of air conditioners in different levels



## Remote Controlling System

### Everyday Management

- Setting for daily operation
  - a. Management in days/weeks/months/years
  - b. Management in each unit
  - c. Simple display for management
- Other functions
  - a. Power on/off, modes, humidity, fan speed
  - b. Waste of energy that may be caused by forgetting to turn off the air conditioner can be avoided.
- Everyday Management at different locations
  - a. Management for overtime working
  - b. Management for meals
  - c. Management for offices



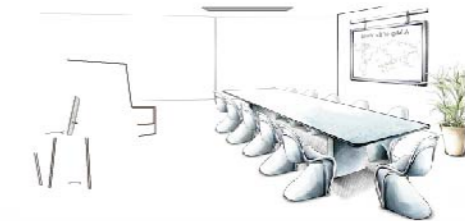
### Group Management

- Central management in groups
  - a. Free choices of dividing groups
  - b. Central control over power on/off
  - c. Central control over temperature
  - d. Central control over modes
  - e. Central control over user authority



### Authority Management

- Only for indoor units
  - a. Limited control over power on/off
  - b. Limited control over temperature
  - c. Limited control over modes



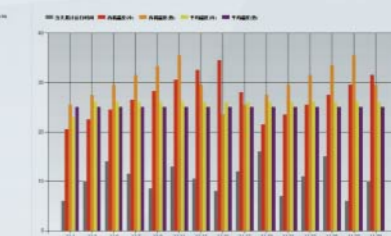
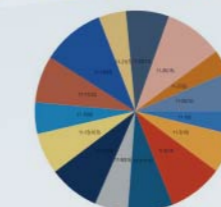
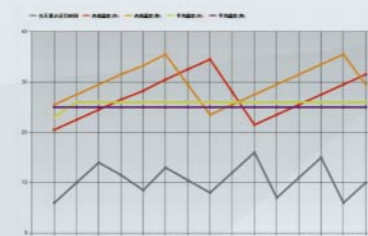
### Statistics Analysis

- Recording statistics
 

System can self generate graphs of statistics for easy management and analysis.
- Recording errors
 

System can show the information of errors in charts and send alarms of errors through emails.
- Recording operation
 

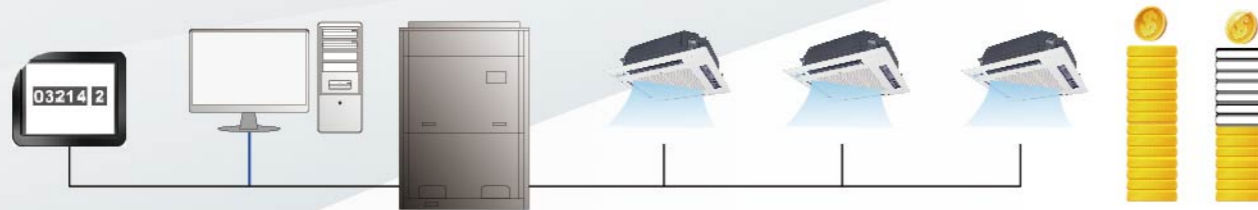
System can record users' daily operation.



### Calculating Cost of Electricity

Auto calculation according to users

- a. According to the operating time, modes, flow of refrigerant, humidity and other factors, system can calculate the cost of electricity for users in different locations.
- b. Detailed information of bills and operation can be provided.



### Energy Management

Analysis of energy cost

- a. Air conditioners that cost much energy
- b. Air conditioners that are set in low temperature
- c. Air conditioners with bad cooling performance

Ways to save energy based on the following aspects:

- a. Operating time
- b. Unit is on too early
- c. Unit is off too late
- d. Comfort
- e. Cost of electricity/cost of electricity per square

### Energy-saving

Limits on electricity

- a. Analysis on the cost of electricity
- b. Set the maximum cost of electricity and unit will be operating in limited conditions when the maximum number is reached.
- c. System can remind users the cost of electricity during operation and give suggestions on energy saving.



Economic operation

System is able to operate under an energy-saving condition










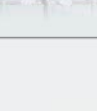

### VIP Management

System can provide independent and unique service to VIP users.



# SPECIFICATIONS & PARAMETER OF OUTDOOR UNITS

## Outdoor Units Lineup

HP	Model	Combinations	Product Outlook
10	GMV-280WM/B	—	
12	GMV-335WM/B	—	
14	GMV-400WM/B	—	
16	GMV-450WM/B	—	
18	GMV-504WM/B	GMV-224WM/B+GMV-280WM/B	
20	GMV-560WM/B	GMV-280WM/B+GMV-280WM/B	
22	GMV-615WM/B	GMV-280WM/B+GMV-335WM/B	
24	GMV-680WM/B	GMV-280WM/B+GMV-400WM/B	
26	GMV-730WM/B	GMV-280WM/B+GMV-450WM/B	
28	GMV-785WM/B	GMV-335WM/B+GMV-450WM/B	
30	GMV-850WM/B	GMV-400WM/B+GMV-450WM/B	
32	GMV-900WM/B	GMV-450WM/B+GMV-450WM/B	
34	GMV-960WM/B	GMV-280WM/B+GMV-280WM/B+GMV-400WM/B	
36	GMV-1010WM/B	GMV-280WM/B+GMV-280WM/B+GMV-450WM/B	
38	GMV-1065WM/B	GMV-280WM/B+GMV-335WM/B+GMV-450WM/B	
40	GMV-1130WM/B	GMV-280WM/B+GMV-400WM/B+GMV-450WM/B	
42	GMV-1180WM/B	GMV-280WM/B+GMV-450WM/B+GMV-450WM/B	
44	GMV-1235WM/B	GMV-335WM/B+GMV-450WM/B+GMV-450WM/B	
46	GMV-1300WM/B	GMV-400WM/B+GMV-450WM/B+GMV-450WM/B	
48	GMV-1350WM/B	GMV-450WM/B+GMV-450WM/B+GMV-450WM/B	
50	GMV-1410WM/B	GMV-280WM/B+GMV-280WM/B+GMV-400WM/B+GMV-450WM/B	
52	GMV-1460WM/B	GMV-280WM/B+GMV-280WM/B+GMV-450WM/B+GMV-450WM/B	
54	GMV-1515WM/B	GMV-280WM/B+GMV-335WM/B+GMV-450WM/B+GMV-450WM/B	
56	GMV-1580WM/B	GMV-280WM/B+GMV-400WM/B+GMV-450WM/B+GMV-450WM/B	
58	GMV-1630WM/B	GMV-280WM/B+GMV-450WM/B+GMV-450WM/B+GMV-450WM/B	
60	GMV-1685WM/B	GMV-335WM/B+GMV-450WM/B+GMV-450WM/B+GMV-450WM/B	
62	GMV-1750WM/B	GMV-400WM/B+GMV-450WM/B+GMV-450WM/B+GMV-450WM/B	
64	GMV-1800WM/B	GMV-450WM/B+GMV-450WM/B+GMV-450WM/B+GMV-450WM/B	

## Specifications of Outdoor Units

Model	Power Supply	Cooling Capacity		Power Input		Dimension(W*D*H) mm	Airflow Volume m³/h	ESP Pa	Noise dB(A)	Noise at Night dB(A)	Connecting pipe diameter		Oil Balance Pipe mm	Min. circuit current A	Max. fuse current A	Weight kg
		Cooling	Heating	Cooling	Heating						Gas	Liquid				
		kW	kW	kW	kW						mm	mm				
GMV-224WMB		22.4	25.0	5.45	5.8	930×765×1605	11400	80	60	45	Φ9.52	Φ19.05	—	17.7	20	225
GMV-280WMB		28.0	31.5	7.3	7.85	930×765×1605	11400	80	61	45	Φ9.52	Φ22.2	—	23.0	25	225
GMV-335WMB		33.5	37.5	8.73	9.68	1340×765×1605	14000	80	63	45	Φ12.7	Φ25.4	—	27.1	32	285
GMV-400WMB		40.0	45.0	11.10	11.50	1340×765×1605	14000	80	63	45	Φ12.7	Φ25.4	—	36.4	40	360
GMV-450WMB		45.0	50.0	13.15	13.60	1340×765×1605	14000	80	63	45	Φ12.7	Φ28.6	—	38.3	40	360
GMV-504WMB		50.4	56.5	12.75	13.65	2×(930×765×1605)	2×11400	80	64	48	Φ15.9	Φ28.6	Φ9.52	39.6	40	2×225
GMV-560WMB		56.0	62.5	14.60	15.70	2×(930×765×1605)	2×11400	80	64	48	Φ15.9	Φ28.6	Φ9.52	41.8	50	2×225
GMV-615WMB		61.5	69.0	16.03	17.53	(930×765×1605)+(1340×765×1605)	11400+14000	80	65	48	Φ15.9	Φ28.6	Φ9.52	45.6	50	225+285
GMV-680WMB		68.0	76.5	18.40	19.35	(930×765×1605)+(1340×765×1605)	11400+14000	80	65	48	Φ15.9	Φ28.6	Φ9.52	54.0	63	225+360
GMV-730WMB		73.0	81.5	20.45	21.45	(930×765×1605)+(1340×765×1605)	11400+14000	80	65	48	Φ19.05	Φ31.8	Φ9.52	55.8	63	225+360
GMV-785WMB		78.5	87.5	21.88	23.28	2×(1340×765×1605)	2×14000	80	66	48	Φ19.05	Φ31.8	Φ9.52	66.1	80	285+360
GMV-850WMB		85.0	95.0	24.25	25.10	2×(1340×765×1605)	2×14000	80	66	48	Φ19.05	Φ31.8	Φ9.52	67.9	80	2×360
GMV-900WMB		90.0	100.0	26.30	27.20	2×(1340×765×1605)	2×14000	80	66	48	Φ19.05	Φ31.8	Φ9.52	69.7	80	2×360
GMV-960WMB		96.0	108.0	25.70	27.20	2×(930×765×1605)+(1340×765×1605)	2×11400+14000	80	67	48	Φ19.05	Φ31.8	Φ9.52	74.9	80	2×225+360
GMV-1010WMB	380V 3N-50Hz	101.0	113.0	27.75	29.30	2×(930×765×1605)+(1340×765×1605)	2×11400+14000	80	67	50	Φ19.05	Φ38.1	Φ9.52	76.7	80	2×225+360
GMV-1065WMB		106.5	119	29.18	31.13	(930×765×1605)+2×(1340×765×1605)	11400+2×14000	80	67	50	Φ19.05	Φ38.1	Φ9.52	87.1	100	225+285+360
GMV-1130WMB		113	126.5	31.55	32.95	(930×765×1605)+2×(1340×765×1605)	11400+2×14000	80	67	50	Φ19.05	Φ38.1	Φ9.52	88.8	100	225+2×360
GMV-1180WMB		118	131.5	33.60	35.05	(930×765×1605)+2×(1340×765×1605)	11400+2×14000	80	67	50	Φ19.05	Φ38.1	Φ9.52	90.6	100	225+2×360
GMV-1235WMB		123.5	137.5	35.03	36.88	3×(1340×765×1605)	3×14000	80	68	50	Φ19.05	Φ38.1	Φ9.52	101.0	125	285+2×360
GMV-1300WMB		130	145	37.40	38.70	3×(1340×765×1605)	3×14000	80	68	50	Φ19.05	Φ38.1	Φ9.52	102.8	125	3×360
GMV-1350WMB		135	150	39.45	40.80	3×(1340×765×1605)	3×14000	80	68	50	Φ19.05	Φ38.1	Φ9.52	104.6	125	3×360
GMV-1410WMB		141	158	38.85	40.80	2×(930×765×1605)+2×(1340×765×1605)	2×11400+2×14000	80	69	52	Φ22.2	Φ44.5	Φ9.52	109.8	125	2×225+2×360
GMV-1460WMB		146	163	40.90	42.90	2×(930×765×1605)+2×(1340×765×1605)	2×11400+2×14000	80	69	52	Φ22.2	Φ44.5	Φ9.52	111.5	125	2×225+2×360
GMV-1515WMB		151.5	169	42.33	44.73	(930×765×1605)+3×(1340×765×1605)	11400+3×14000	80	69	52	Φ22.2	Φ44.5	Φ9.52	115.3	125	225+285+2×360
GMV-1580WMB		158	176.5	44.70	46.55	(930×765×1605)+3×(1340×765×1605)	11400+3×14000	80	69	52	Φ22.2	Φ44.5	Φ9.52	123.7	125	225+3×360
GMV-1630WMB		163	181.5	46.75	48.65	(930×765×1605)+3×(1340×765×1605)	11400+3×14000	80	69	54	Φ22.2	Φ44.5	Φ9.52	125.5	160	225+3×360
GMV-1685WMB		168.5	187.5	48.18	50.48	4×(1340×765×1605)	4×14000	80	70	54	Φ22.2	Φ44.5	Φ9.52	129.2	160	285+3×360
GMV-1750WMB		175	195	50.55	52.30	4×(1340×765×1605)	4×14000	80	70	54	Φ22.2	Φ44.5	Φ9.52	137.6	160	4×360
GMV-1800WMB		180	200	52.60	54.40	4×(1340×765×1605)	4×14000	80	70	54	Φ22.2	Φ44.5	Φ9.52	139.4	160	4×360

► Note: Select the air switch according to maximum fuse current; Select electric wire specification according to minimum current circuit.

## VARIED INDOOR UNITS

GMV5S DC Inverter Multi VRF System not only features energy-saving, slim design, elegant outlook and excellent airflow performance, but also has been upgraded as regards cleanness and comfort, intelligent control and convenient installation.

### High-efficiency Low Static Pressure Duct Type Indoor Unit

- **DC inverter motor: more energy saving**

With good speed regulation performance, DC inverter motor can work reasonably according to the indoor unit's actual needs. Motor efficiency improved by 30% v.s. normal motor.

- **Intelligent drainage device**

Water height difference up to 1.0m, which can effectively drain out condensing water and save space.

Note: Please specify if you need this function.

- **Ultra-low noise operation**

DC inverter motor can realize stepless speed regulation to lower noise. Indoor unit can be set to work under auto quiet mode via wired controller. Noise is as low as 25dB(A).

- **Multiple protections**

Anti-freezing protection, temperature malfunction protection, fan motor overload protection, auxiliary electric heating overheat protection and humidity sensor protection.



### High Static Pressure Duct Type Indoor Unit

- **High static pressure design**

Static pressure can be up to 120Pa, especially suitable for places in need of long distance airflow.

- **Convenient installation**

You can choose circular air duct or rectangular air duct according to actual needs. Or you can choose different ways of air return.



- **Easy maintenance**

Unit has maintenance port for easy maintenance.

- **Protection Function**

Anti-freezing protection, fan motor overload protection, temperature sensor malfunction protection, auxiliary electric heating overheat protection.



### Low Static Pressure Duct Type Indoor Unit

- **Low static pressure, low noise**

Especially suitable for rooms of compact structure or small installation space. Also, it provides you with a comfortable and quiet living environment.

- **Intelligent drainage device**

Water height difference up to 1.0m, which can effectively drain out condensing water and save space.

Note: Please specify if you need this function.

- **Protection Function**

Water overflow protection (applicable for water pump units), anti-freezing protection, fan motor overload protection, temperature sensor malfunction protection, auxiliary electric heating overheat protection.

- **Convenient installation**

Tab type plastic filter, detachable fan motor, independent water pump assembly and electric box assembly, all for convenient maintenance.

- **Safety design**

With ceramic PTC electric heating, it features safe operation, high heat exchange efficiency, quick temperature rising, no oxygen consumption, constant temperature, etc.



### Two-way Cassette Indoor Unit

- **Beautiful Appearance**

With beautiful and elegant front panel, it is congenial to the indoor surroundings.

- **Protection Function**

Water overflow protection, anti-freezing protection, temperature sensor malfunction protection, fan motor overload protection.

- **2-way airflow design for narrow rooms**

Long-distance and 2-way airflow design, especially suitable for narrow rooms.

- **Intelligent drainage device**

Water height difference up to 1.0m, which can effectively drain out condensing water and save space.



## Four-way Cassette Indoor Unit

- **Multiple airflow directions**

Auto operation, 4-way airflow and 3-way airflow with strong circulating airflow volume.

- **High drain pump lift**

Drain pump lift reaches 1000mm, which can effectively drain out condensing water.

- **Long life filter**

Cleaning cycle is 20 times longer, more convenient for maintenance.

- **Protection Function**

Water overflow protection, anti-freezing protection, temperature sensor malfunction protection, fan motor overload protection, auxiliary electric heating overheat protection (This function is not included in unit with heat pump only).



## High-efficiency Floor Ceiling Indoor Unit

- **Hoisted or seated, flexible installation**

Unit can be hoisted or seated. When seated, suspended ceiling is not needed.

- **Protection Function**

Anti-freezing protection, temperature sensor malfunction protection, fan motor overload protection.

- **Beautiful Appearance**

With beautiful and elegant front panel, it is congenial to the indoor surroundings.

- **Horizontal and vertical air swing**

Wider air swing range for your comfortable working and living environment.



## High Efficiency Four-way Cassette Indoor Unit

- **Strong and balanced airflow**

Unit features auto operation, 4-way airflow, 7 fan speeds and strong circulating airflow.

- **DC inverter motor**

With good speed regulation performance, motor efficiency improved by 30% v.s. normal motor.

- **Intelligent drainage device**

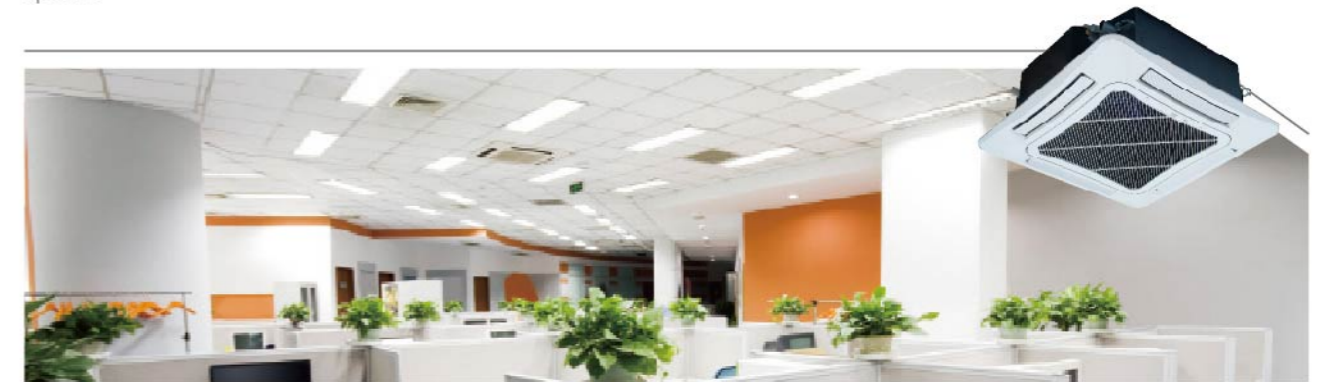
Water height difference up to 1.0m, which can effectively drain out condensing water and save space.

- **Ultra-low noise operation**

DC inverter motor can realize stepless speed regulation to lower noise. Indoor unit can be set to work under auto quiet mode via wired controller.

- **Protection Function**

Water overflow protection, anti-freezing protection, temperature sensor malfunction protection, fan motor overload protection, auxiliary electric heating overheat protection (This function is not included in unit with heat pump only).



## One-way Cassette Indoor Unit

- **Small installation space**

With 185mm ultrathin design, unit can be installed in a 19cm ceiling.

- **Detachable grille and long life filter**

Grille is detachable for easy cleaning. With long life filter, cleaning cycle is 20 times longer.

- **High drain pump lift**

Drain pump lift reaches 1.0m, which can effectively drain out water.

- **Protection Function**

Water overflow protection, anti-freezing protection, fan motor overload protection, temperature sensor malfunction protection, auxiliary electric heating overheat protection (This function is not included in unit with heat pump only).



## Wall-mounted Indoor Unit

- **Comfortable and balanced airflow, up&down air swing**

Up air swing: In cooling, cool air blows out horizontally and then gradually drops.  
Down air swing: In heating, warm air blows downward and then gradually climbs up.

- **Cold air prevention design**

When heating in winter, cold air prevention function is enabled so that air won't be blown out until it's warm.

- **Multiple protections**

Anti-freezing protection, temperature sensor malfunction protection, fan motor overload protection, auxiliary electric heating overheat protection (not included in unit with heat pump only).

- **Triple defenders for better purification**

Mildew-proof filter, electrostatic fibre and anti-biotic fibre adopted to remove dust, smell, bacteria and mildew.



## Specifications of Indoor Units

Type of indoor unit	Specification	22	25	28	32	36	40	45	50	56	63	71	80	90	100	112	125	140	160	
High-efficiency Low Static Pressure Duct Type Unit		◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
High-efficiency 4-way Cassette Unit				◆		◆		◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
High Static Pressure Duct Type Unit													◆	◆	◆	◆	◆	◆	◆	◆
Low Static Pressure Duct Type Unit		◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
2-way Cassette Unit				◆		◆		◆	◆	◆	◆	◆								
1-way Cassette Unit				◆		◆		◆	◆											
4-way Cassette Unit				◆		◆		◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
High-efficiency Floor Ceiling Type Unit				◆		◆			◆			◆		◆		◆	◆	◆	◆	◆
Wall-mounted Type Unit		◆	◆	◆	◆	◆	◆	◆	◆											

## Parameter of Indoor Unit

### ▶▶Low static Pressure Duct Type Indoor Unit

Model	Cooling Capacity kW	Heating Capacity kW	Auxiliary E-heater kW	Power Consumption w	Airflow volume m <sup>3</sup> /h	Noise (H/L) dB(A)	ESP Pa	Power supply	Connecting pipe		Drainage pipe External diameter × Wall thickness mm	Unit dimension W × D × H mm	Weight kg
									Liquid pipe mm	Gas pipe mm			
									220V ~ 50Hz	380V 3N ~ 50Hz (220V ~ 50Hz)			
GMV-N(R)22PL(S)/A	2.2	2.5	0.8	75	450	33/26	30/10	220V ~ 50Hz	Φ6.35	Φ9.52	Φ25 × 2.5	700 × 615 × 200	22
GMV-N(R)25PL(S)/A	2.5	2.8	0.8	75	450	33/26	30/10		Φ6.35	Φ9.52	Φ25 × 2.5	700 × 615 × 200	22
GMV-N(R)28PL(S)/A	2.8	3.2	0.8	75	450	33/26	30/10		Φ6.35	Φ9.52	Φ25 × 2.5	700 × 615 × 200	22
GMV-N(R)32PL(S)/A	3.2	3.6	0.8	81	550	34/28	30/10		Φ6.35	Φ12.7	Φ25 × 2.5	700 × 615 × 200	22
GMV-N(R)36PL(S)/A	3.6	4.0	0.8	81	550	34/28	30/10		Φ6.35	Φ12.7	Φ25 × 2.5	700 × 615 × 200	22
GMV-N(R)40PL(S)/A	4.0	4.5	1.5	86	700	35/29	30/10		Φ6.35	Φ12.7	Φ25 × 2.5	900 × 615 × 200	27
GMV-N(R)45PL(S)/A	4.5	5.0	1.5	86	700	35/29	30/10		Φ6.35	Φ12.7	Φ25 × 2.5	900 × 615 × 200	27
GMV-N(R)50PL(S)/A	5.0	5.6	1.5	86	700	35/29	30/10		Φ6.35	Φ12.7	Φ25 × 2.5	900 × 615 × 200	27
GMV-N(R)56PL(S)/A	5.6	6.3	2.1	118	1000	37/31	30/10		Φ9.52	Φ15.9	Φ25 × 2.5	1100 × 615 × 200	31
GMV-N(R)63PL(S)/A	6.3	7.1	2.1	118	1000	37/31	30/10		Φ9.52	Φ15.9	Φ25 × 2.5	1100 × 615 × 200	31
GMV-N(R)71PL(S)/A	7.1	8.0	2.1	118	1000	37/31	50/20		Φ9.52	Φ15.9	Φ25 × 2.5	1100 × 615 × 200	31
GMV-N(R)80PL(S)/A	8.0	9.0	2.1	170	1100	38/32	50/20		Φ9.52	Φ15.9	Φ25 × 2.5	1200 × 655 × 260	40
GMV-N(R)90PL(S)/A(S)	9.0	10.0	3.6	215	1500	42/34	50/20		380V 3N ~ 50Hz (220V ~ 50Hz)	Φ9.52	Φ15.9	Φ25 × 2.5	1340 × 655 × 260
GMV-N(R)100PL(S)/A(S)	10.0	11.2	3.6	215	1500	42/34	50/20	Φ9.52		Φ15.9	Φ25 × 2.5	1340 × 655 × 260	49
GMV-N(R)112PL(S)/A(S)	11.2	12.5	3.6	215	1700	42/34	50/20	Φ9.52		Φ15.9	Φ25 × 2.5	1340 × 655 × 260	49
GMV-N(R)125PL(S)/A(S)	12.5	14.0	3.6	290	2000	44/38	50/20	Φ9.52		Φ15.9	Φ25 × 2.5	1340 × 655 × 260	52
GMV-N(R)140PL(S)/A(S)	14.0	16.0	3.6	290	2000	44/38	50/20	Φ9.52		Φ15.9	Φ25 × 2.5	1340 × 655 × 260	52

### ▶▶High Static Pressure Duct Type Indoor Unit

Model	Cooling Capacity kW	Heating Capacity kW	Auxiliary E-heater kW	Power Consumption w	Airflow volume m <sup>3</sup> /h	Noise (H/L) dB(A)	ESP Pa	Power supply	Connecting pipe		Drainage pipe External diameter × Wall thickness mm	Unit dimension W × D × H mm	Weight kg
									Liquid pipe mm	Gas pipe mm			
									220V ~ 50Hz	380V 3N ~ 50Hz			
GMV-N(R)71PH/A	7.1	8.0	2.1	240	1100	45/41	80	220V ~ 50Hz	Φ9.52	Φ15.9	Φ25 × 2.5	1155 × 736 × 300	37
GMV-N(R)80PH/A	8.0	9.0	2.1	240	1100	45/41	80		Φ9.52	Φ15.9	Φ25 × 2.5	1155 × 736 × 300	37
GMV-N(R)90PH/A(S)	9.0	10.0	3.6	360	1700	48/44	100	380V 3N ~ 50Hz	Φ9.52	Φ15.9	Φ25 × 2.5	1425 × 736 × 300	49
GMV-N(R)100PH/A(S)	10.0	11.2	3.6	360	1700	48/44	100		Φ9.52	Φ15.9	Φ25 × 2.5	1425 × 736 × 300	49
GMV-N(R)112PH/A(S)	11.2	12.5	3.6	360	1700	48/44	100		Φ9.52	Φ15.9	Φ25 × 2.5	1425 × 736 × 300	49
GMV-N(R)125PH/A(S)	12.5	14.0	3.6	500	2000	50/46	120		Φ9.52	Φ15.9	Φ25 × 2.5	1425 × 736 × 300	49
GMV-N(R)140PH/A(S)	14.0	16.0	3.6	500	2000	50/46	120		Φ9.52	Φ15.9	Φ25 × 2.5	1425 × 736 × 300	55

### ▶▶High-efficiency Low static Pressure Duct Type Indoor Unit

Model	Cooling Capacity kW	Heating Capacity kW	Auxiliary E-heater kW	Power Consumption w	Airflow volume m <sup>3</sup> /h	Noise (H/L) dB(A)	ESP Pa	Power supply	Connecting pipe		Drainage pipe External diameter × Wall thickness mm	Unit dimension W × D × H mm	Weight kg
									Liquid pipe mm	Gas pipe mm			
									220V ~ 50Hz	380V 3N ~ 50Hz (220V ~ 50Hz)			
GMV-N(R)D22PL(S)/A	2.2	2.5	0.8	35	450	31/25	30/10	220V ~ 50Hz	Φ6.35	Φ9.52	Φ25 × 2.5	700 × 615 × 200	22
GMV-N(R)D25PL(S)/A	2.5	2.8	0.8	35	450	31/25	30/10		Φ6.35	Φ9.52	Φ25 × 2.5	700 × 615 × 200	22
GMV-N(R)D28PL(S)/A	2.8	3.2	0.8	35	450	31/25	30/10		Φ6.35	Φ9.52	Φ25 × 2.5	700 × 615 × 200	22
GMV-N(R)D32PL(S)/A	3.2	3.6	0.8	43	550	32/27	30/10		Φ6.35	Φ12.7	Φ25 × 2.5	700 × 615 × 200	22
GMV-N(R)D36PL(S)/A	3.6	4.0	0.8	43	550	32/27	30/10		Φ6.35	Φ12.7	Φ25 × 2.5	700 × 615 × 200	22
GMV-N(R)D40PL(S)/A	4.0	4.5	1.5	52	700	33/28	30/10		Φ6.35	Φ12.7	Φ25 × 2.5	900 × 615 × 200	27
GMV-N(R)D45PL(S)/A	4.5	5.0	1.5	52	700	33/28	30/10		Φ6.35	Φ12.7	Φ25 × 2.5	900 × 615 × 200	27
GMV-N(R)D50PL(S)/A	5.0	5.6	1.5	52	700	33/28	30/10		Φ6.35	Φ12.7	Φ25 × 2.5	900 × 615 × 200	27
GMV-N(R)D56PL(S)/A	5.6	6.3	2.1	99	1000	35/30	30/10		Φ9.52	Φ15.9	Φ25 × 2.5	1100 × 615 × 200	31
GMV-N(R)D63PL(S)/A	6.3	7.1	2.1	99	1000	35/30	30/10		Φ9.52	Φ15.9	Φ25 × 2.5	1100 × 615 × 200	31
GMV-N(R)D71PL(S)/A	7.1	8.0	2.1	105	1000	35/30	50/20		Φ9.52	Φ15.9	Φ25 × 2.5	1200 × 655 × 260	40
GMV-N(R)D80PL(S)/A	8.0	9.0	2.1	140	1100	36/31	50/20		Φ9.52	Φ15.9	Φ25 × 2.5	1200 × 655 × 260	40
GMV-N(R)D90PL(S)/A(S)	9.0	10.0	3.6	209	1500	40/32	50/20		380V 3N ~ 50Hz (220V ~ 50Hz)	Φ9.52	Φ15.9	Φ25 × 2.5	1340 × 655 × 260
GMV-N(R)D100PL(S)/A(S)	10.0	11.2	3.6	209	1500	40/32	50/20	Φ9.52		Φ15.9	Φ25 × 2.5	1340 × 655 × 260	49
GMV-N(R)D112PL(S)/A(S)	11.2	12.5	3.6	209	1700	40/32	50/20	Φ9.52		Φ15.9	Φ25 × 2.5	1340 × 655 × 260	49
GMV-N(R)D125PL(S)/A(S)	12.5	14.0	3.6	230	2000	42/37	50/20	Φ9.52		Φ15.9	Φ25 × 2.5	1340 × 655 × 260	52
GMV-N(R)D140PL(S)/A(S)	14.0	16.0	3.6	230	2000	42/37	50/20	Φ9.52		Φ15.9	Φ25 × 2.5	1340 × 655 × 260	52

### ▶▶High-efficiency Floor Ceiling Indoor Unit

Model	Cooling Capacity kW	Heating Capacity kW	Power Consumption w	Airflow volume m <sup>3</sup> /h	Noise (H/L) dB(A)	Power supply	Connecting pipe		Drainage pipe External diameter × Wall thickness mm	Unit dimension W × D × H mm	Weight kg
							Liquid pipe mm	Gas pipe mm			
							220V ~ 50Hz				
GMV-NDR28ZD/A	2.8	3.2	55	650	40/30	220V ~ 50Hz	Φ6.35	Φ9.52	Φ17	1220 × 700 × 225	40
GMV-NDR36ZD/A	3.6	4.0	55	650	40/30		Φ6.35	Φ12.7	Φ17	1220 × 700 × 225	40
GMV-NDR50ZD/A	5.0	5.6	110	950	45/39		Φ6.35	Φ12.7	Φ17	1220 × 700 × 225	40
GMV-NDR71ZD/A	7.1	8.0	140	1400	49/45		Φ9.52	Φ15.9	Φ17	1420 × 700 × 245	52
GMV-NDR90ZD/A	9.0	10.0	180	1600	51/47		Φ9.52	Φ15.9	Φ17	1420 × 700 × 245	54
GMV-NDR112ZD/A	11.2	12.5	250	2000	55/49		Φ9.52	Φ15.9	Φ17	1700 × 700 × 245	64
GMV-NDR125ZD/A	12.5	14.0	250	2000	55/49		Φ9.52	Φ15.9	Φ17	1700 × 700 × 245	66
GMV-NDR140ZD/A	14.0	16.0	250	2000	55/49		Φ9.52	Φ15.9	Φ17	1700 × 700 × 245	66



## ►►High-efficiency Four-way Cassette Indoor Unit

Model	Cooling Capacity	Heating Capacity	Auxiliary E-heater	Power Consumption	Airflow volume	Noise (H/L)	Power supply	Connecting pipe		Drainage pipe		Dimension of main body		Dimension of front panel		Net weight	
								Liquid pipe	Gas pipe	External diameter X Wall thickness	W x D x H	W x D x H	Main body	Front panel	kg		
	kW	kW	kW	w	m³/h	dB(A)	mm	mm	mm	mm	mm	mm	kg				
GMV-N(R)D28T/A	2.8	3.2	700	42	550	36/31	220V~50Hz	φ6.35	φ9.52	φ25×2.5	840×840×190	950×950×65	25	7			
GMV-N(R)D36T/A	3.6	4.0	700	45	610	36/31		φ6.35	φ12.7	φ25×2.5	840×840×190	950×950×65	25	7			
GMV-N(R)D45T/A	4.5	5.0	700	50	750	36/31		φ6.35	φ12.7	φ25×2.5	840×840×190	950×950×65	25	7			
GMV-N(R)D50T/A	5.0	5.6	700	50	830	36/31		φ6.35	φ12.7	φ25×2.5	840×840×190	950×950×65	25	7			
GMV-N(R)D56T/A	5.6	6.3	1400	68	900	37/32		φ9.52	φ15.9	φ25×2.5	840×840×240	950×950×65	30	7			
GMV-N(R)D63T/A	6.3	7.1	1400	68	1000	37/32		φ9.52	φ15.9	φ25×2.5	840×840×240	950×950×65	30	7			
GMV-N(R)D71T/A	7.1	8.0	1400	68	1100	37/32		φ9.52	φ15.9	φ25×2.5	840×840×240	950×950×65	30	7			
GMV-N(R)D80T/A	8.0	9.0	1400	68	1180	37/32		φ9.52	φ15.9	φ25×2.5	840×840×240	950×950×65	30	7			
GMV-N(R)D90T/A(S)	9.0	10.0	2100	120	1400	41/36	380V 3N~50Hz (220V~50Hz)	φ9.52	φ15.9	φ25×2.5	840×840×320	950×950×65	35	7			
GMV-N(R)D100T/A(S)	10.0	11.2	2100	120	1550	41/36		φ9.52	φ15.9	φ25×2.5	840×840×320	950×950×65	35	7			
GMV-N(R)D112T/A(S)	11.2	12.5	2100	120	1700	41/36		φ9.52	φ15.9	φ25×2.5	840×840×320	950×950×65	35	7			
GMV-N(R)D125T/A(S)	12.5	14.0	2100	120	1860	43/38		φ9.52	φ15.9	φ25×2.5	840×840×320	950×950×65	35	7			
GMV-N(R)D140T/A(S)	14.0	16.0	2100	120	1860	43/38		φ9.52	φ15.9	φ25×2.5	840×840×320	950×950×65	35	7			
GMV-N(R)D160T/A(S)	16.0	17.5	2100	250	2400	47/42		φ9.52	φ19.05	φ25×2.5	910×910×293	1040×1040×65	44	7.5			

## ►►Two-way Cassette Indoor Unit

Model	Cooling Capacity	Heating Capacity	Auxiliary E-heater	Power Consumption	Airflow volume	Noise (H/L)	Power supply	Connecting pipe		Drainage pipe		Dimension of main body		Dimension of front panel		Net weight	
								Liquid pipe	Gas pipe	External diameter X Wall thickness	W x D x H	W x D x H	Main body	Front panel	kg		
	kW	kW	kW	w	m³/h	dB(A)	mm	mm	mm	mm	mm	mm	kg				
GMV-N(R)28TS/A	2.8	3.2	0.7	60	680	37/33	220V~50Hz	φ6.35	φ9.52	φ25×2.5	1090×600×300	1350×690×50	42	6			
GMV-N(R)36TS/A	3.6	4.0	0.7	60	680	37/33		φ6.35	φ12.7	φ25×2.5	1090×600×300	1350×690×50	42	6			
GMV-N(R)45TS/A	4.5	5.0	0.7	65	680	37/33		φ6.35	φ12.7	φ25×2.5	1090×600×300	1350×690×50	42	6			
GMV-N(R)50TS/A	5.0	5.6	0.7	65	680	37/33		φ6.35	φ12.7	φ25×2.5	1090×600×300	1350×690×50	42	6			
GMV-N(R)56TS/A	5.6	6.3	1.4	83	1180	39/35		φ9.52	φ15.9	φ25×2.5	1090×600×300	1350×690×50	48	6			
GMV-N(R)63TS/A	6.3	7.0	1.4	83	1180	39/35		φ9.52	φ15.9	φ25×2.5	1090×600×300	1350×690×50	48	6			
GMV-N(R)71TS/A	7.1	8.0	1.4	83	1180	39/35		φ9.52	φ15.9	φ25×2.5	1090×600×300	1350×690×50	48	6			

## ►►One-way Cassette Indoor Unit

Model	Cooling Capacity	Heating Capacity	Auxiliary E-heater	Power Consumption	Airflow volume	Noise (H/L)	Power supply	Connecting pipe		Drainage pipe		Dimension of main body		Dimension of front panel		Net weight	
								Liquid pipe	Gas pipe	External diameter X Wall thickness	W x D x H	W x D x H	Main body	Front panel	kg		
	kW	kW	kW	w	m³/h	dB(A)	mm	mm	mm	mm	mm	mm	kg				
GMV-N(R)28TD/A	2.8	3.2	1	45	480	36/31	220V~50Hz	φ6.35	φ9.52	φ25×2.5	987×385×178	1200×460×23	17	4			
GMV-N(R)36TD/A	3.6	4.0	1	57	580	38/32		φ6.35	φ12.7	φ25×2.5	987×385×178	1200×460×23	17	4			
GMV-N(R)45TD/A	4.5	5.0	1	65	700	42/34		φ6.35	φ12.7	φ25×2.5	987×385×178	1200×460×23	17	4			
GMV-N(R)50TD/A	5.0	5.6	1	70	830	44/35		φ6.35	φ12.7	φ25×2.5	987×385×178	1200×460×23	17	4			

## ►►Four-way Cassette Indoor Unit

Model	Cooling Capacity	Heating Capacity	Auxiliary E-heater	Power Consumption	Airflow volume	Noise (H/L)	Power supply	Connecting pipe		Drainage pipe		Dimension of main body		Dimension of front panel		Net weight	
								Liquid pipe	Gas pipe	External diameter X Wall thickness	W x D x H	W x D x H	Main body	Front panel	kg		
	kW	kW	kW	w	m³/h	dB(A)	mm	mm	mm	mm	mm	mm	kg				
GMV-N(R)28T/A	2.8	3.2	0.7	75	610	37/32	220V~50Hz	φ6.35	φ9.52	φ25×2.5	840×840×190	950×950×65	25	7			
GMV-N(R)36T/A	3.6	4.0	0.7	75	610	37/32		φ6.35	φ12.7	φ25×2.5	840×840×190	950×950×65	25	7			
GMV-N(R)45T/A	4.5	5.0	0.7	75	830	37/32		φ6.35	φ12.7	φ25×2.5	840×840×190	950×950×65	25	7			
GMV-N(R)50T/A	5.0	5.6	0.7	75	830	37/32		φ6.35	φ12.7	φ25×2.5	840×840×190	950×950×65	25	7			
GMV-N(R)56T/A	5.6	6.3	1.4	90	1180	39/34		φ9.52	φ15.9	φ25×2.5	840×840×240	950×950×65	30	7			
GMV-N(R)63T/A	6.3	7.1	1.4	90	1180	39/34		φ9.52	φ15.9	φ25×2.5	840×840×240	950×950×65	30	7			
GMV-N(R)71T/A	7.1	8.0	1.4	90	1180	39/34		φ9.52	φ15.9	φ25×2.5	840×840×240	950×950×65	30	7			
GMV-N(R)80T/A	8.0	9.0	1.4	90	1180	39/34		φ9.52	φ15.9	φ25×2.5	840×840×240	950×950×65	30	7			
GMV-N(R)90T/A(S)	9.0	10.0	2.1	160	1860	42/37		380V 3N~50Hz (220V~50Hz)	φ9.52	φ15.9	φ25×2.5	840×840×320	950×950×65	35	7		
GMV-N(R)100T/A(S)	10.0	11.2	2.1	160	1860	42/37	φ9.52		φ15.9	φ25×2.5	840×840×320	950×950×65	35	7			
GMV-N(R)112T/A(S)	11.2	12.5	2.1	160	1860	42/37	φ9.52		φ15.9	φ25×2.5	840×840×320	950×950×65	35	7			
GMV-N(R)125T/A(S)	12.5	14.0	2.1	160	1860	44/39	φ9.52		φ15.9	φ25×2.5	840×840×320	950×950×65	35	7			
GMV-N(R)140T/A(S)	14.0	16.0	2.1	160	1860	44/39	φ9.52		φ15.9	φ25×2.5	840×840×320	950×950×65	35	7			

## ►►Wall-mounted Indoor Unit

Model	Cooling Capacity	Heating Capacity	Auxiliary E-heater	Power Consumption	Airflow volume	Noise (H/L)	ESP	Power supply	Connecting pipe		Drainage pipe		Unit dimension		Weight
									Liquid pipe	Gas pipe	External diameter X Wall thickness	W x D x H	W x D x H	kg	
	kW	kW	kW	w	m³/h	dB(A)	Pa	mm	mm	mm	mm	kg			
GMV-N(R)HD22G/A	2.2	2.5	900	35	500	36/28	0	220V~50Hz	φ6.35	φ9.52	φ20×1.5	941×383×232	12.5		
GMV-N(R)HD25G/A	2.5	2.8	900	35	520	37/28	0		φ6.35	φ9.52	φ20×1.5	941×383×232	12.5		
GMV-N(R)HD28G/A	2.8	3.2	900	35	520	37/28	0		φ6.35	φ9.52	φ20×1.5	941×383×232	12.5		
GMV-N(R)HD32G/A	3.2	3.6	1000	45	580	39/31	0		φ6.35	φ12.7	φ20×1.5	970×400×240	13.5		
GMV-N(R)HD36G/A	3.6	4	1000	45	590	39/31	0		φ6.35	φ12.7	φ20×1.5	970×400×240	13.5		
GMV-N(R)HD40G/A	4.0	4.5	1200	55	850	40/34	0		φ6.35	φ12.7	φ30×1.5	1080×425×268	18		
GMV-N(R)HD45G/A	4.5	5	1200	55	850	40/34	0		φ6.35	φ12.7	φ30×1.5	1080×425×268	18		
GMV-N(R)HD50G/A	5	5.8	1200	55	850	40/34	0		φ6.35	φ12.7	φ30×1.5	1080×425×268	18		

► Note:

- Above specifications and parameter may be changed due to product improvement. Please refer to unit's nameplate for specific parameters.
- Above parameters like cooling capacity, heating capacity and power input are based on the values tested under rated working condition.
- For GMV-N(R)\*, R refers to auxiliary E-heater. Model with R refers to heat pump unit, total heating capacity=heating capacity+auxiliary electric heating. Model without R refers to unit with heat pump only, E-heater is not included.
- For Low Static Pressure Duct Type Unit GMV-N(R)\*PL(S)/A, S refers to lifted water pump. Model with S refers to water pump unit. Model without S refers to unit without water pump.
- For indoor unit GMV-N\*/T/AS, S refers to 3-phase motor.

## SPECIFICATIONS & PARAMETER OF OUTDOOR UNITS

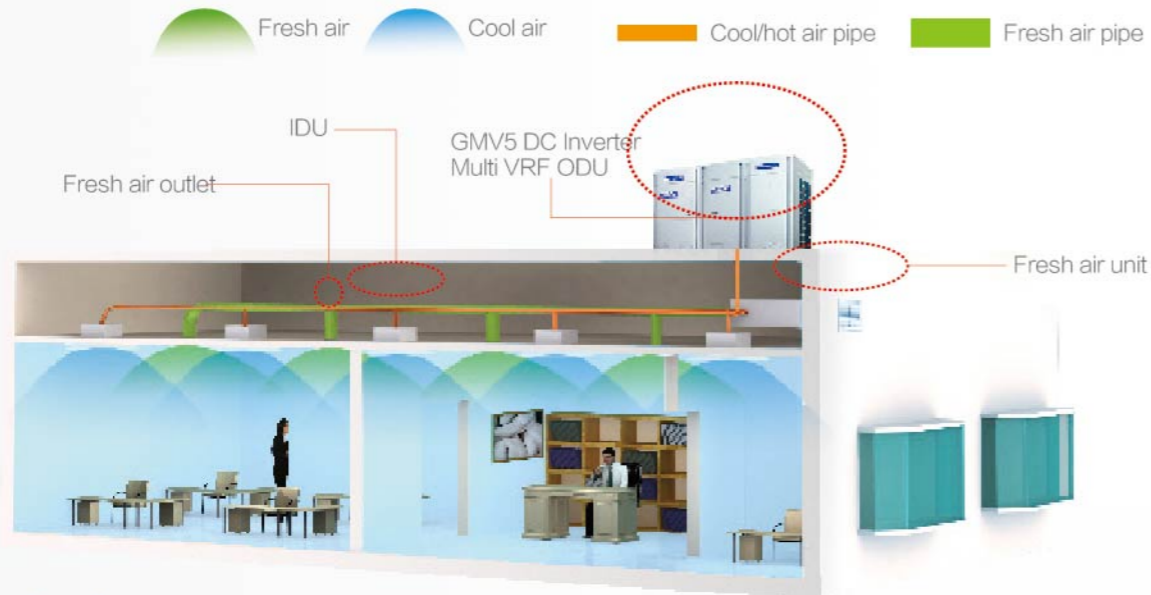
Airflow volume: 1200~6000m<sup>3</sup>/h

Applicable range: Residential houses, villas, business buildings, hotels, apartments, etc.



### One system, two functions

- Adopted with DC inverter technology, Fresh Air DC Inverter Multi VRF System features air conditioning function and fresh air function.



### Enjoy fresh air

- Airflow volume: 1200~6000m<sup>3</sup>/h, cooling capacity: 14-56kW  
Applicable for all kinds of structure.
  - 1) Direct evaporative cooling adopted, air conditioning+fresh air can be realized accurately and precisely.
  - 2) DC inverter technology adopted, constant humidity is enabled with less power consumption.
  - 3) Integrated system control with Gree GMV Multi VRF System.



## Air conditioning and fresh air, two in one

### • Less investment

Fresh Air DC Inverter Multi VRF System can be combined with Gree GMV5S. For a same room, if the same amount of fresh air is to be taken, then the cost of GMV5S+Fresh air unit is equivalent to the cost of GMV+Air exchange fan.



### • Less operation cost

Unit can control refrigerant output according to actual needs to ensure constant airflow temperature. By adjusting power output, light-load but high power operation can be avoided. Thus, operation cost can be greatly reduced.



### • Less installation space

Save installation space for outdoor units. Especially suitable for places that have restricted installation space.



## Specifications of Fresh Air DC Inverter Multi VRF Indoor Units

Model	Power supply	Cooling Capacity kW	Heating Capacity kW	Rated power w	W x D x H mm	Fresh air volume m <sup>3</sup> /h	ESP		Operation noise dB(A)	Liquid pipe mm	Gas pipe mm	Outer diameter of drainage pipe inch	Weight kg	Min. circuit current A	Max. fuse current A
							Standard Pa	Operation Pa							
GMV-NX140P/A(X1.2)	220V ~ 50Hz	14	10	500	1463×756×300	1200	150	150	42	Φ9.52	Φ15.9	G1'	63.5	-	-
GMV-NX224P/A(X2.0)	380V 3N~50Hz	22.4	16	1100	1500×1000×500	2000	200	50~200	47	Φ9.52	Φ22.2	G1'	130	25.6	32
GMV-NX280P/A(X2.5)		28	20	1100	1500×1000×500	2500	200	50~200	48	Φ9.52	Φ22.2	G1'	150	26.8	32
GMV-NX280P/A(X3.0)		28	20	1100	1500×1000×500	3000	200	50~200	51	Φ9.52	Φ22.2	G1'	150	26.8	32
GMV-NX450P/A(X4.0)		45	32	1500	1700×1100×650	4000	200	50~200	52	Φ12.7	Φ28.6	G1'	190	39.9	40
GMV-NX560P/A(X5.0)		56	39	2200	1700×1100×650	5000	200	50~300	54	Φ15.9	Φ28.6	G1'	215	-	-
GMV-NX560P/A(X6.0)		56	39	2200	1700×1100×650	6000	200	50~300	57	Φ15.9	Φ28.6	G1'	215	-	-

#### ► Note:

- Units of large airflow volume (3000m<sup>3</sup>/h and above) can only be connected to the main unit in a fixed way. One main unit can't connect several units of large airflow volume.
- Choose air switch according to maximum fuse current and choose electric wire specification according to minimum circuit current.