

GREE ELECTRIC APPLIANCES, INC. OF ZHUHAI

Add: West Jinji Rd, Qianshan, Zhuhai, Guangdong, China 519070 Tel: (+86-756) 852 2218 Fax: (+86-756) 866 9426 Email: gree@gree.com.cn Http://www.gree.com

HONG KONG GREE ELECTRIC APPLIANCES SALES LIMITED

Add: Unit 2612, 26/F, Mira Place Tower A, 132 Nathan Road, Tsimshatsui, Kowloon, Hong Kong Tel: (852) 3165 8898 Fax: (852) 3165 1029

Note:

Gree is committed to continuously improving its products to ensure the highest quality and reliability standards, and to meet local regulations and market requirements.

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GC-1904-01



Distributor information





GMV5





Key Features

All DC Inverter Technology to Improve Compression Efficiency

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

All DC Inverter Compressor

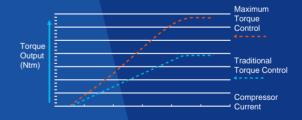
 All DC inverter compressor is used in this system. It can directly intake gas to reduce loss of overheat and improve efficiency.



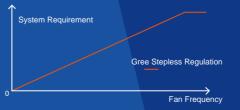
 High-efficient permasyn motor is adopted to provide better performance than traditional DC inverter compressor.

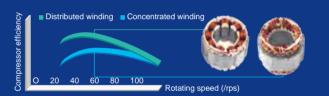


It can reduce energy loss caused by device winding so as to realize higher efficiency.

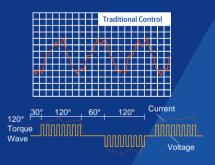


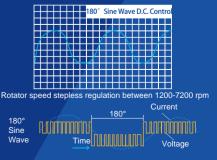
Low-frequency Torque Control It can directly control motor torque, through which fan motor can run at a low speed. Users will feel more comfortable while requirements of the system are also met.





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

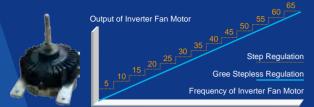






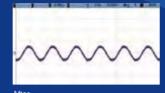
Sensorless DC Inverter Fan Motor

 Stepless speed regulation ranges from 5Hz to 65Hz. Compared with traditional inverter motors, the operation is more energy-saving.



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





88HP Max. Capacity-The Largest Free Combination

Max. capacity of single outdoor unit reaches **22HP** and max. combination capacity is even up to **88HP**, in an industry leading level.

Max. combination capacity is extended to 88HP









10 HP 12/14/16 HP

18/20/22 HP

88HP

Money is saved in system cost and piping



Compact Design

With compact design, the outdoor unit can be carried to the roof of building through elevator, with no need of crane. It is easier for delivery and installation.



Non-polar CAN Technology to Improve Communication Efficiency

• Gree is the first one to adopt non-polar CAN communication technology in the industry. CAN communication technology provides quicker system response speed, more convenient installation debugging and more reliable communication data.

Performance Index	Company A Multi-VRF Network	GMV5 DC Inverter CAN Network
	Software check	Hardware check, more reliable
Reliability	One unit's communication error may lead to breakdown of the whole network	If one unit has errors, it will exit from the network without any influence to other units.
Communication Efficiency	Low utilization	High utilization
Confindingation Efficiency	Communication speed is about 10Kbps.	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

• The non-polar CAN communication technology is applied to support flexible wiring installation, greatly reducing construction difficulties.





Wide Range of Operation Condition*

Outdoor operation temperature range is expanded to -5 C -52 C in cooling and -20 C -24 C in heating.



Note*: The cooling operation range of GMV5(Kuwait) series is -5 °C ~55 °C

Wider Applicable Location

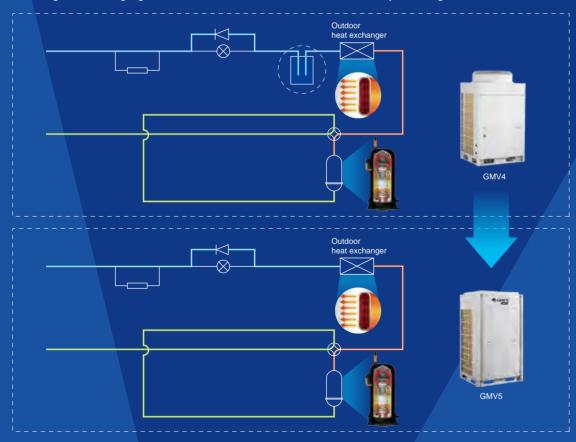
GMV5 can realize a combination of 4 outdoor unit modules connecting with as many as 80 indoor units. It's especially applicable for business buildings or hotels.



Max. IDU Connection: 80 sets

Refrigerant Storage and Distribution

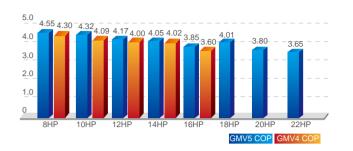
The GMV5 system is designed without liquid receiver and the excess refrigerant is stored in the piping, which can minimize the refrigerant charging volume and enhance the control accuracy of refrigerant.



High Efficiency and More Energy Saving

Thanks to the advanced all DC inverter technology, optimized system design and accurate intelligent control technology, take model GMV-**WM/B-X for example, EER of GMV5 is up to 4.31 while COP is up to 4.55.





New Generation of Energy-saving Operation Control Technology with Energy Saving Up to 20%

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, the 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, the system will limit power output forcibly. Up to 20% of energy can be saved.



Intelligent Defrosting Control

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





GMV5 505/06

Accurate Intelligent Allocation Technology of Capacity and Output of Optimal Portion to Ensure Highest Efficiency

- When total load demands more than 75% of a running system's capacity, one more unit will automatically start;
- When total load demands less than 40% of a running system's capacity, one unit will automatically shut down;
- 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.

	Company A	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 damaged soon.	Unit costs less energy and can always be kept in good condition.

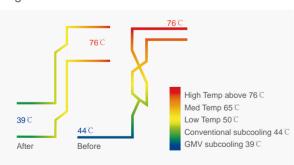
• Output of Optimal Portion to Ensure Highest Efficiency

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

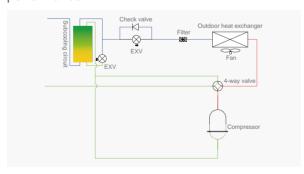


Sub-cooling Control Technology to Ensure Optimal Cooling and Heating

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



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



▼ Temperature Controlled by Wired Controller with Higher Efficiency and More Energy Saving

Through setting temperature lower limit in cooling or dry mode, and setting temperature upper limit in heating, 3D heating or heat supply mode, the system is able to operate in a smaller temperature range so as to achieve energy saving.

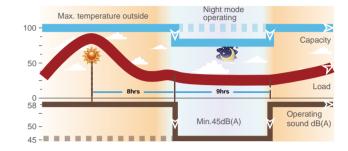
Comfortable Design for a Better Life

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

Outdoor Unit Quiet Mode and Quiet Control

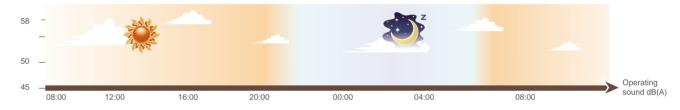
Quiet at Night

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.



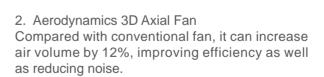
• Quiet in Compulsion

The system can also be set in this mode to ensure low noise as long as it is operating. Noise is as low as 45dB(A).

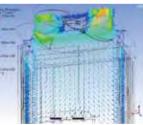


Quiet Control

1. Optimized Bossing Design After many times of CFD tests, a new fan bossing structure has been developed to reduce vibration of fan during running. Noise can be reduced by 3dB(A).











Quiet Indoor Unit

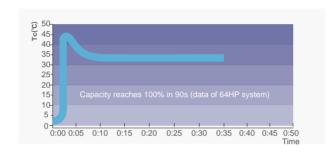
The indoor unit of the GMV5 system also adopts DC inverter motors to realize stepless regulation. According to indoor temperature or people's needs, users can set this mode through wired controller. Noise is as low as 22dB(A).



GMV5 (Indoor)

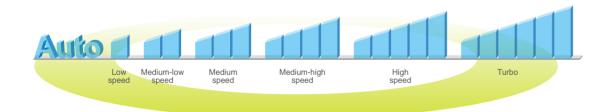
Fast Start-up in Heating

DC Compressor is first started to avoid too much electric current. Inverter compressor can operate in high frequency once starts up, so as to produce more heat.



7 Speeds Indoor Fan

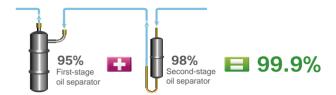
Indoor fan speed can be set in 7 levels by wired controller. They are auto, low speed, medium-low speed, medium-speed, medium-high speed, high speed and turbo.



Excellent Performance Ensured by Advanced Technology

Two-stage Oil Separation Control Technology (Patented)

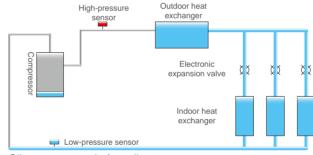
First-stage oil separator adopts a filtration expansion valve with separation efficiency of 98%; Second-stage oil separator will separate the remained 2% refrigerant oil with separation efficiency of 95%. General oil separation efficiency reaches 99.9%.



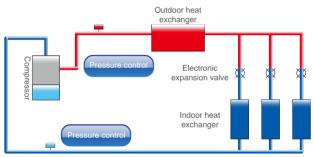
▼ Oil Return Control Technology

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.



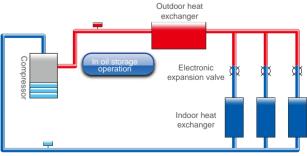
Oil storage status before oil return



Oil return operation

Specialized Compressor Oil Storage Control The system applies specialized compressor

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



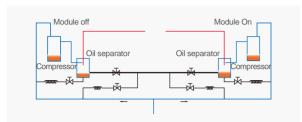
Oil storage operation



Oil Balance Control Technology

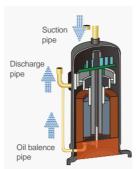
Oil Balance Between Each Module

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



• Oil Balance Between Each Compressor

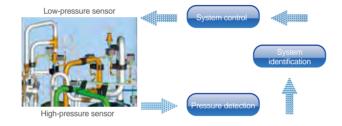
Refrigerant is taken into the compressor by the suction pipe and then runs through the cooling system. It can control the oil level and minimum oil volume required by each compressor so as to realize oil balance between each compressor.



Intelligent Detection Control

Pressure Sensor Detection Control

Pressure sensor can precisely detect system high pressure and low pressure, and adjust output of fan and compressor, so as to make sure the system can work under the most energy-saving pressure condition.



• Temperature Sensor Detection Control

Various temperature sensors are equipped to detect ambient temperature, indoor temperature and refrigerant's evaporating temperature, from which the operation status can be measured.

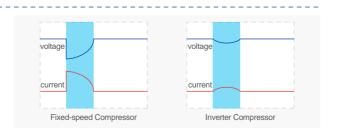
Multi Electronic Expansion Valves Control

Outdoor electronic expansion valve not only has throttling effect, but also control refrigerant flow. The system adopts multi electronic expansion valves control with total 960 grades regulated by two electronic expansion valves, so as to regulate refrigerant flow precisely and ensures reliable operation of system.



Smaller Impact to Power Grid

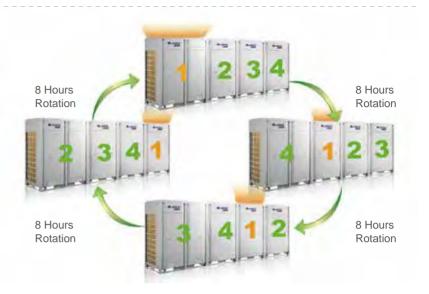
The start-up frequency of inverter compressor is gradually increased from 0Hz to the appointed operation frequency. The start-up current of compressor rotor is decreased by reducing load torque, hence impact to power grid during start-up is reduced and electromagnetic impact to compressor is reduced too.



Modules Rotation Operating to Maximize Lifespan

Modules 8h Rotation Operating

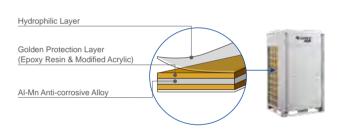
The operating priority sequence of the outdoor unit modules will be changed without restart when the system accumulatively operates for 8 hours, which can maximize the service life of the system.



▼ Highly Anticorrosive Golden Fins

The primary material of Golden Fin is Al-Mn(Alumium-Manganese) anti-rust alloy, which is coated with the Golden Protection Layer(Components: Epoxy Resin & Modified Acrylic, Sillcon free), the anti-corrosive performance in salt-spray testing is 200%~300% higher than normal Blue Fin*.

Note: Salt-spray testing result is from GREE materials chemistry testing laboratory.



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.



Lower Power Consumption Operation Mode

As for the area with power consumption limited time period, the maximum power consumption can be set for the operation. Basing on the power consumption of unit and user's requirement, power consumption limitation can be set according to 100%, 90% or80% of the capacity of complete unit. In this case, user can have more selection at the power consumption limited time period.



Intelligent Power Consumption Limit

Electricity Shortage Identification

The outdoor unit can receive a power signal of electricity shortage. In some places like first-class hotels, if diesel generator is used temporarily for providing electricity, outdoor unit will send the electricity shortage signal to indoor unit. In this case, only VIP rooms can be provided with air conditioning service.



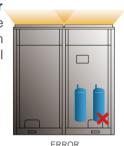
Excellent Emergency Operation Function to Ensure Reliable Operation

• 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.



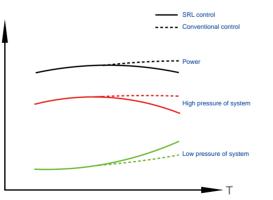
 Emergency Operation of Fan Double-fan design fan ensures that one fan can still work even

if the other one has error.



SRL (Self-reaction Load) Self-adaptive Control

SRL (Self-reaction Load) can intelligently detect and control system parameters and automatically adapt to indoor cold/heat load requirement to reducing unit's power and improve the energy efficiency.



▼ ODU High Static Pressure Design

System has 4 levels of static pressure that can be set. Up to 82Pa pressure can be set for an outdoor unit. This design is especially useful when an outdoor unit needs to be placed indoor.

▼ 1000m Pipe Design for Flexible Installation

GMV5 system can be applied in different types of building construction. One of its advantages is the simple pipe design, which will simplify the installation and reduce installation cost.

- Max total pipe length reaches 1000m (with limitation)
- Actual pipe length between the outdoor unit and the farthest indoor unit: 165m
- Max height difference between indoor unit and outdoor unit: 90m

Note

a: Distance between the first branch and the farthest indoor unit. b: Distance between the frist branch and the nearest indoor unit.

Engineering Debugging for Convenient Construction

1) GMV5 has five auto debugging features:

- Automatic allocation of IDU and ODU addresses
- · Automatic detection of IDU and ODU quantity
- Automatic detection of errors
- Automatic start-up of debugging
- Real-time judgment of pipe errors

165m 40m



2) Diversified debugging methods for satisfying different requirements and improving debugging efficiency:

- ①Button debugging of outdoor unit
- 2 Special GMV debugging system
- ③CE41-24/F(C) debugger has functions of debugging of complete unit, independent debugging of indoor unit, malfunction display, data record and so on. It's no need to connect special software and PC. Moreover, it can connect external USB storage data.







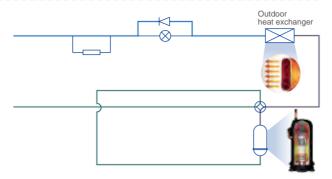
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2



Auto-refrigerant Recovery for Easy Maintenance

When auto refrigerant recovery function is set and cut-off valve of liquid pipe is closed during maintenance, the system will automatically operate compressor, EXV, solenoid valve and fan, etc. Taking advantage of compressor power, the refrigerant is recovered at the condensing side of outdoor unit to achieve environmental effect. Meanwhile, system low pressure is displayed simultaneously during refrigerant recovery.



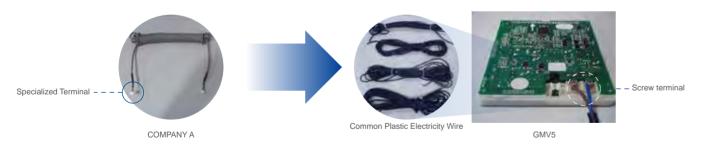
Inspection Window for Convenient Checking

Inspection window is available for quick checking of system operation status. No need to open panel for checking, which will be more time-saving and easier for maintenance.



Flexible Wiring

Common wire can meet the communication demand with no need of specialized communication wire. Common sheath twisted pair cable can be used as there is no polarity requirement.



Auto Addressing of Outdoor and Indoor Unit

CAN network is adopted to achieve auto addressing of outdoor and indoor unit. It can allocate IDU and ODU addresses and detect IDU and ODU quantity, which greatly improves construction efficiency.

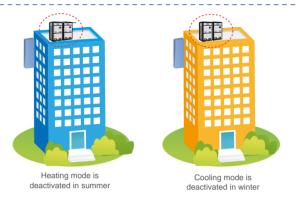


Professional Hotel Functions

Gree GMV5 provides hotels with unique season setting function and key-card control function.

Season Setting

Cooling or heating mode can be deactivated during a certain season to avoid affecting unit's normal operation due to mode conflict.



Key-card Control for Hotel Management

The unit can be turned on or off by inserting or removing the key-card. When the key-card is removed, the system can remember all the setting and stop operation. When the key-card is inserted back, the system will be under standby mode or operate according to the status before removing key-card. It is well suited to hotels, restaurants, etc.





SPECIFICATIONS & PARAMETERS OF OUTDOOR UNITS

▼ GMV5E Outdoor Units Lineup (380-415V, 50/60Hz)

Model	GMV-224WWE-X	GMV-280WWE-X (GMV-280WWE1-X)	GMV-335WWE-X	GMV-400WM/E-X	GMV-450WWE-X (GMV-450WWE1-X)	GMV-504WWE-X	GMV-560WME-X	GMV-615WM
GMV-224WWE-X								
GMV-280WM/E-X								
(GMV-280WME1-X)								
GMV-335WM/E-X								
GMV-400WM/E-X				•				
GMV-450WM/E-X								
(GMV-450WME1-X)								
GMV-504WM/E-X								
GMV-560WME-X								
GMV-615WWE-X								•
GMV-680WM/E-X		•		•				
GMV-730WM/E-X		•			•			
GMV-785WWE-X		•				•		
GMV-850WWE-X		•					•	
GMV-900WWE-X		•						•
GMV-960WWE-X								
GMV-1010WWE-X								
GMV-1065WWE-X					•			
GMV-1130WWE-X						•		•
GMV-1180WWE-X								•
GMV-1235WWE-X								00
GMV-1300WWE-X		•			•		•	
GMV-1350WWE-X		•			•			•
GMV-1410WWE-X					•			•
GMV-1460WWE-X		•						
GMV-1515WWE-X		•						••
GMV-1580WWE-X			•					••
GMV-1630WWE-X				•				••
GMV-1685WWE-X					•			••
GMV-1750WWE-X					-			00
GMV-1800WWE-X						-		00
GMV-1845WM/E-X							-	000
GMV-1908WWE-X								
GMV-1962WWE-X					-			
GMV-2016WME-X							00	
GMV-2072WWE-X								•••
GMV-2128WWE-X								
GMV-2184WWE-X								000 000 000 000
GMV-2240WME-X			_					
GMV-2295WM/E-X								
GMV-2350WWE-X								
GMV-2405WM/E-X								
GMV-2460WWE-X							-	000

Note:

▼GMV5E (SASO) Outdoor Units Lineup (380-415V, 50/60Hz)

Model	GMV-224WM/E-X(S)	GMV-280WM/E-X(S) GMV-280WM/E1-X(S)	GMV-335WM/E-X(S)	GMV-400WM/E-X(S)	GMV-450WM/E-X(S) GMV-450WM/E1-X(S)	GMV-504WM/E-X(S)	GMV-560WM/E-X(S)	GMV-615WWE-X(
GMV-224WM/E-X(S)	•							
GMV-280WM/E-X(S)								
GMV-280WM/E1-X(S)								
GMV-335WM/E-X(S)								
GMV-400WM/E-X(S)				•				
GMV-450WM/E-X(S) GMV-450WM/E1-X(S)					•			
GMV-504WM/E-X(S)								
GMV-560WM/E-X(S)								
GMV-615WM/E-X(S)								
GMV-680WM/E-X(S)								
GMV-730WM/E-X(S)								
GMV-785WM/E-X(S)								
GMV-850WM/E-X(S)		•						
GMV-900WM/E-X(S)		•						•
GMV-960WM/E-X(S)								•
GMV-1010WM/E-X(S)				•				•
GMV-1065WM/E-X(S)					•			•
GMV-1130WM/E-X(S)								•
GMV-1180WM/E-X(S)							•	•
GMV-1235WM/E-X(S)								••
GMV-1300WM/E-X(S)		•			•			
GMV-1350WM/E-X(S)		•			•			•
GMV-1410WM/E-X(S)		-			•			•
GMV-1460WM/E-X(S)		•						•
GMV-1515WM/E-X(S)		•						••
GMV-1580WM/E-X(S)								00
GMV-1630WM/E-X(S)				•				••
GMV-1685WM/E-X(S)					•			00
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GMV-1800WM/E-X(S)							•	••
GMV-1854WM/E-X(S)								000
GMV-1908WM/E-X(S)					•			
GMV-1962WM/E-X(S)					<u> </u>			
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GMV-2072WM/E-X(S)								
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GMV-2184WM/E-X(S)								
GMV-2240WM/E-X(S)								
GMV-2295WM/E-X(S)								
GMV-2350WM/E-X(S)					<u> </u>			000 000 000 000 000
GMV-2405WM/E-X(S)								
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Note: Due to the same capacity. GMV-280WM/E1-X(S) model and GMV-280WM/E-X(S) can replace each other for operation. GMV-450WM/E1-X(S) model and GMV-450WM/E-X(S) model can replace each other for operation.



^{1.}Due to the same capacity, GMV-280WM/E1-X model and GMV-280WM/E-X model can replace each other for operation, GMV-450WM/E1-X model and GMV-450WM/E-X model can replace each other for operation.

^{2.} The combination models of the outdoor units are not Eurovent certified.

3MVF

▼ GMV5 (Kuwait) Outdoor Units Lineup (380-415V, 50/60Hz)

Model	GMV-224WM/B-X(K)	GMV-280WM/B-X(K)	GMV-335WM/B-X(K)
GMV-224WM/B-X(K)	•		
GMV-280WM/B-X(K)		•	
GMV-335WM/B-X(K)			•
GMV-450WM/B-X(K)	••		
GMV-504WM/B-X(K)	•	•	
GMV-560WM/B-X(K)	•		•
GMV-615WM/B-X(K)		•	•
GMV-680WM/B-X(K)			••
GMV-730WM/B-X(K)	••	•	
GMV-785WM/B-X(K)	••		•
GMV-850WM/B-X(K)	•	•	•
GMV-900WM/B-X(K)		••	•
GMV-960WM/B-X(K)		•	••
GMV-1010WM/B-X(K)			•••
GMV-1065WM/B-X(K)	••	•	•
GMV-1130WM/B-X(K)	••		••
GMV-1180WM/B-X(K)	•	•	••
GMV-1235WM/B-X(K)		••	••
GMV-1300WM/B-X(K)		•	•••
GMV-1350WM/B-X(K)			••••

▼ GMV5 Outdoor Units Lineup (380-415V, 50/60Hz)

Model	GMV-224WM/B-X	GMV-280WM/B-X	GMV-335WM/B-X	GMV-400WM/B-X	GMV-450WM/B-X	GMV-504WMB-X	GMV-560WM/B-X	GMV-615WMB-X
GMV-224WM/B-X	•							
GMV-280WM/B-X		•						
GMV-335WM/B-X								
GMV-400WM/B-X								
GMV-450WM/B-X								
GMV-504WM/B-X								
GMV-560WM/B-X								
GMV-615WM/B-X								•
GMV-680WM/B-X				•				
GMV-730WM/B-X		•			•			
GMV-785WM/B-X		•				•		
GMV-850WM/B-X		•					•	
GMV-900WM/B-X		•						•
GMV-960WM/B-X			•					•
GMV-1010WM/B-X				•				•
GMV-1065WM/B-X					•			•
GMV-1130WM/B-X						•		•
GMV-1180WM/B-X							•	•
GMV-1235WM/B-X								••
GMV-1300WM/B-X					•		•	
GMV-1350WM/B-X		•			•			•
GMV-1410WM/B-X			•		•			•
GMV-1460WM/B-X		•					•	•
GMV-1515WM/B-X		•						••
GMV-1580WM/B-X			•					••
GMV-1630WM/B-X				•				••
GMV-1685WM/B-X					•			••
GMV-1750WM/B-X						•		••
GMV-1800WM/B-X							•	••
GMV-1845WM/B-X								•••
GMV-1908WM/B-X		•			•		•	•
GMV-1962WM/B-X		•				•	•	•
GMV-2016WM/B-X		•					••	•
GMV-2072WM/B-X		•					•	••
GMV-2128WM/B-X		•						•••
GMV-2184WM/B-X			•					•••
GMV-2240WM/B-X				•				•••
GMV-2295WM/B-X					•			•••
GMV-2350WM/B-X						•		•••
GMV-2405WM/B-X							•	00 000 000 000 000 000
GMV-2460WM/B-X								9999



Specifications of Outdoor Units



GMV5E 380-415V,50/60Hz

	Model			GMV-224WM/E-X	GMV-280WM/E-X	GMV-280WM/E1-X	GMV-335WM/E-X	GMV-400WM/E-X
Capacity range			HP	8	10	10	12	14
Cooling capacity	Nom.*		kW	22.4	28.0	28.0	33.5	40.0
Liesting conseits	Nom.*		kW	22.4	28.0	28.0	33.5	40.0
Heating capacity	Max.		kW	25.0	31.5	31.5	37.5	45.0
EER	Nom.*	Ducted	kW/kW	4.73	4.48	3.05	3.99	3.80
EER	INOIII.	Cassette	kW/kW	3.27	3.05	2.66	2.80	3.03
	Nom.*	Ducted	kW/kW	5.20	5.56	4.10	5.25	4.73
COP	NOIII.	Cassette	kW/kW	3.54	3.66	3.24	3.64	3.62
	Max.		kW/kW	5.20	5.56	4.10	5.25	4.73
Power consumption of cool -	Nom.*	Ducted	kW	4.74	6.25	9.18	8.40	10.53
ing	NOITI.	Cassette	kW	6.85	9.18	10.53	11.96	13.20
	Nom.*	Ducted	kW	4.30	5.04	6.83	6.38	8.46
Power consumption of heat - ing	INOITI.	Cassette	kW	6.33	7.65	8.64	9.20	11.05
9	Max.		kW	4.81	5.67	7.68	7.14	9.51
Power supply			V/Ph/Hz			380V-415V 3N~ 50/60H	z	
Max. circuit/Fuse current			А	16.1/20.0	20.9/25.0	20.9/25.0	24.6/32.0	28.8/40.0
Maximum drive IDU NO.			unit	13	13 16 16		19	23
Refrigerant charge volume			kg	5.9	9.0	6.7	8.2	9.8
Sound pressure level(cooling)		dB(A)	60	61	61	63	63
Sound power level(cooling)	Ducted		dB(A)	85	86	85	80	86
Souria power level(cooling)	Cassette		dB(A)	84	86	85	82	85
	Liquid		mm	Ф9.52	Ф9.52	Ф9.52	Ф12.7	Ф12.7
Connecting pipe	Gas		mm	Ф19.05	Ф22.2	Ф22.2	Ф25.4	Ф25.4
	Oil balanc	e	mm	Ф9.52	Ф9.52	Ф9.52	Ф9.52	Ф9.52
Dimension(WxDxH)	Outline		mm	930×765×1605	930×765×1605	930×765×1605	1340×765×1605	1340×765×1605
Dimension(WXDXII)	Package		mm	1010×840×1775	1010×840×1775	1010×840×1775	1420×840×1775	1420×840×1775
Net weight/Gross weight	Net weight/Gross weight			225/235	235/245	225/235	285/300	360/375
Loading quantity	40' GP		set	24	24	24	16	16
Loading quantity	40' HQ		set	24	24	24	16	16

	Model			GMV-450WM/E-X	GMV-450WM/E1-X	GMV-504WM/E-X	GMV-560WM/E-X	GMV-615WM/E-X	
Capacity range			HP	16	16	18	20	22	
Cooling capacity	Nom.*		kW	45.0	45.0	50.4	56.0	61.5	
Heating consists	Nom.*		kW	45.0	45.0	50.4	56.0	61.5	
Heating capacity	Max.		kW	50.0	50.0	56.5	63.0	69.0	
EER	N *	Ducted	kW/kW 3.51		3.35	3.25	3.00	2.40	
EEK	Nom.*	Cassette	kW/kW	2.80	2.58	3.40	2.90	2.10	
	Nom.*	Ducted	kW/kW	4.60	4.20	5.50	4.60	4.50	
COP	NOITI.	Cassette	kW/kW	3.56	3.27	4.20	4.00	3.80	
	Max.		kW/kW	4.60	4.20	4.01	3.80	3.65	
Power consumption of	Nom.*	Ducted	kW	12.82	13.43	15.51	18.67	25.63	
cooling	Nom."	Cassette	kW	16.07	17.44	14.82	19.31	29.29	
	No *	Ducted	kW	9.78	10.71	9.16	12.17	13.67	
Power consumption of neating	Nom.*	Cassette	kW	12.64	13.76	12.00	14.00	16.18	
leating	Max.		kW	10.86	11.90	14.10	16.60	18.90	
Power supply			V/Ph/Hz			380V-415V 3N~ 50/60H	z		
Max. circuit/Fuse current	t		А	33.2/40.0	33.2/40.0	44.7/50.0	50.0/60.0	53.6/60.0	
Maximum drive IDU NO.			unit	26	26	29	32	35	
Refrigerant charge volun	ne		kg	10.3 10.3		11.3	14.3	14.3	
Sound pressure level(co	oling)		dB(A)	63	63	63	63	64	
Sound power level	Ducted		dB(A)	80	89	86	92	92	
(cooling)	Cassette		dB(A)	89	86	85	89	91	
	Liquid		mm	Ф12.7	Ф12.7	Ф15.9	Ф15.9	Ф15.9	
Connecting pipe	Gas		mm	Ф28.6	Ф28.6	Ф28.6	Ф28.6	Ф28.6	
	Oil balance		mm	Ф9.52	Ф9.52	Ф9.52	Ф9.52	Ф9.52	
Discoursian (M. D. II)	Outline		mm	1340×765×1740	1340×765×1605	1340×765×1740	1340×765×1740	1340×765×1740	
Dimension(WxDxH)	Package		mm	1420×840×1910	1420×840×1775	1420×840×1910	1420×840×1910	1420×840×1910	
Net weight/Gross weight			kg	360/375	360/ 375	360/375	385/400	385/400	
Looding guantitu	40' GP		set	16	16	16	16	16	
Loading quantity	40' HQ		set	16	16	16	16	16	

Note: Nom.* is based on the standard test of EN14511 and certified by EUROVENT.

		Ca	apacity		Powe	er inpu	t		Airflow		Conr	necting	pipe	Min. circuit		
Model	Power supply	Cooling	Hea	ating	Cooling	Hea	ting	Dimension(WxDxH)	volume	ESP	Liquid	Gas	Oil	current	Max. fuse current	Weight
		Nom.	Nom.	Max.	Nom.*		Max.						balance			
	V/Ph/Hz	kW	kW	kW	kW	kW	kW	mm	m³/h	Pa	mm	mm	mm	A	A	kg
GMV-680WM/E-X		68.0	68.0	76.5	16.78	15.18	15.18	(930×765×1605) +(1340×765×1605)	11400+ 14000	82	Ф15.9	Ф28.6	Ф9.52	20.9+28.8	25 + 40	235+360
GMV-730WWE-X		73.0	73.0	81.5	19.07	16.54	16.53	(930×765×1605) +(1340×765×1740)	11400+ 16000	82	Ф19.05	Ф31.8	Ф9.52	20.9+33.2	25 + 40	235+360
GMV-785WWE-X		78.4	78.4	88.0	21.76	14.83	19.77	(930×765×1605) +(1340×765×1740)	11400+ 16000	82	Ф19.05	Ф31.8	Ф9.52	20.9+44.7	25 + 50	235+360
GMV-850WME-X		84.0	84.0	94.5	24.92	17.84	22.27	(930×765×1605) +(1340×765×1740)	11400+ 16000	82	Ф19.05	Ф31.8	Ф9.52	20.9+50.0	25 + 63	235+385
GMV-900WM/E-X		89.5	89.5	100.5	31.88	19.34	24.57	(930×765×1605) +(1340×765×1740)	11400+ 16000	82	Ф19.05	Ф31.8	Ф9.52	20.9+53.6	25 + 63	235+385
GMV-960WME-X		95.0	95.0	106.5	34.03	20.81	26.04	(1340×765×1605) +(1340×765×1740)	14000+ 16000	82	Ф19.05	Ф31.8	Ф9.52	24.6+53.6	32 + 63	285+385
GMV-1010WWE-X		101.5	101.5	114.0	36.14	23.18	28.41	(1340×765×1605) +(1340×765×1740)	14000+ 16000	82	Ф19.05	Ф38.1	Ф9.52	28.8+53.6	40 + 63	360+385
GMV-1065WWE-X		106.5	106.5	119.0	38.45	24.54	29.76	(1340×765×1740) ×2	16000×2	82	Ф19.05	Ф38.1	Ф9.52	33.2+53.6	40 + 63	360+385
GMV-1130WWE-X		111.9	111.9	125.5	41.14	22.83	33.00	(1340×765×1740) ×2	16000×2	82	Ф19.05	Ф38.1	Ф9.52	44.7+53.6	50 + 63	360+385
GMV-1180WM/E-X		117.5	117.5	132.0	44.30	25.84	35.50	(1340×765×1740) ×2	16000×2	82	Ф19.05	Ф38.1	Ф9.52	50.0+53.6	63 + 63	385×2
GMV-1235WM/E-X		123.0	123.0	138.0	51.26	27.34	37.80	(1340×765×1740) ×2	16000×2	82	Ф19.05	Ф38.1	Ф9.52	53.6+53.6	63 + 63	385×2
GMV-1300WWE-X		129.0	129.0	144.5	37.74	28.71	33.13	+(1340×765×1740) ×2		82	Ф19.05	Ф38.1	Ф9.52	20.9+33.2+50.0	25 + 40 + 63	235+360 +385
GMV-1350WWE-X		134.5	134.5	150.5	44.70	30.21	35.43	(930×765×1605) +(1340×765×1740) ×2		82	Ф19.05	Ф38.1	Ф9.52	20.9+33.2+53.6	25 + 40 + 63	235+360 +385
GMV-1410WWE-X		140.0	140.0	156.5	46.85	31.68	36.90	(1340×765×1605) +(1340×765×1740) ×2		82	Ф19.05	Ф41.3	Ф9.52	24.6+33.2+53.6	32 + 40 + 63	285+360 +385
GMV-1460WM/E-X		145.5	145.5	163.5	50.55	31.51	41.17	(930×765×1605) +(1340×765×1740) ×2	11400+ 16000×2	82	Ф19.05	Ф41.3	Ф9.52	20.9+50.0+53.6	25 + 63 + 63	235+385 ×2
GMV-1515WME-X	380V-	151.0	151.0	169.5	57.51	33.01	43.47	(930×765×1605) +(1340×765×1740) ×2	11400+ 16000×2	82	Ф19.05	Ф41.3	Ф9.52	20.9+53.6+53.6	25 + 63 + 63	235+385 ×2
GMV-1580WWE-X	415V 3N~ 50/60Hz		156.5	175.5	59.66	34.48	44.94	(1340×765×1605) +(1340×765×1740) ×2	14000+ 16000×2	82	Ф19.05	Ф41.3	Ф9.52	24.6+53.6+53.6	32 + 63 + 63	285+385 ×2
GMV-1630WWE-X	30/00112		163.0	183.0	61.79	36.85	47.31	(1340×765×1605) +(1340×765×1740) ×2	14000+ 16000×2	82	Ф19.05	Ф41.3	Ф9.52	28.8+53.6+53.6	40 + 63 + 63	360+385 ×2
GMV-1685WWE-X		168.0	168.0	188.0	64.08	38.21	48.66	(1340×765×1740) ×3	16000×3	82	Ф19.05	Ф41.3	Ф9.52	33.2+53.6+53.6	40 + 63 + 63	360+385 ×2
GMV-1750WWE-X		173.4	173.4	194.5	66.77	36.50	51.90	(1340×765×1740) ×3	16000×3	82	Ф19.05	Ф41.3	Ф9.52	44.7+53.6+53.6	50 + 63 + 63	360+385 ×2
GMV-1800WWE-X		179.0	179.0	201.0	69.93	39.51	54.40	(1340×765×1740) ×3	16000×3	82	Ф19.05	Ф41.3	Ф9.52	50.0+53.6+53.6	63 + 63 + 63	385×3
GMV-1845WWE-X		184.5	184.5	207.0	76.89	41.01	56.70	(1340×765×1740) ×3	16000×3	82	Ф19.05	Ф41.3	Ф9.52	53.6+53.6+53.6	63+63+63	385×3
GMV-1908WWE-X		190.5	190.5	213.5	63.37	42.38	52.03	(930×765×1605) +(1340×765×1740) ×3	11400+ 16000×3	82	Ф22.2	Ф44.5	Ф9.52	20.9+33.2 +50.0+53.6	25+40+63+63	235+360 +385×2
GMV-1962WWE-X		195.9	195.9	220.0	66.06	40.67	55.27	(930×765×1605) +(1340×765×1740) ×3		82	Ф22.2	Ф44.5	Ф9.52	20.9+44.7 +50.0+53.6	25+50+63+63	235+360 +385×2
GMV-2016WWE-X		201.5	201.5	226.5	69.22	43.68	57.77	(930×765×1605) +(1340×765×1740) ×3	11400+ 16000×3	82	Ф22.2	Ф44.5	Ф9.52	20.9+50.0 +50.0+53.6	25+63+63+63	235+385 ×3
GMV-2072WWE-X		207.0	207.0	232.5	76.18	45.18	60.07	(930×765×1605) +(1340×765×1740) ×3	11400+ 16000×3	82	Ф22.2	Ф44.5	Ф9.52	20.9+50.0 +53.6+53.6	25+63+63+63	235+385 ×3
GMV-2128WWE-X		212.5	212.5	238.5	83.14	46.68	62.37	(930×765×1605) +(1340×765×1740) ×3		82	Ф22.2	Ф44.5	Ф9.52	20.9+53.6 +53.6+53.6	25+63+63+63	235+385 ×3
GMV-2184WWE-X		218.0	218.0	244.5	85.29	48.15	63.84	(1340×765×1605) +(1340×765×1740) ×3		82	Ф22.2	Ф44.5	Ф9.52	24.6+53.6 +53.6+53.6	32+63+63+63	285+385 ×3
GMV-2240WWE-X		224.5	224.5	252.0	87.42	50.52	66.21	(1340×765×1605) +(1340×765×1740) ×3	14000+ 16000×3	82	Ф22.2	Ф44.5	Ф9.52	28.8+53.6 +53.6+53.6	40+63+63+63	360+385 ×3
GMV-2295WM/E-X		229.5	229.5	257.0	89.71	51.88	67.56	(1340×765×1740) ×4	16000×4	82	Ф22.2	Ф44.5	Ф9.52	33.2+53.6 +53.6+53.6	40+63+63+63	360+385 ×3
GMV-2350WM/E-X		234.9	234.9	263.5	92.40	50.17	70.80	(1340×765×1740) ×4	16000×4	82	Ф22.2	Ф44.5		44.7+53.6 +53.6+53.6	50+63+63+63	360+385 ×3
GMV-2405WM/E-X		240.5	240.5	270.0	95.56	53.18	73.30	(1340×765×1740) ×4	16000×4	82	Ф22.2	Ф44.5	Ф9.52	50.0+53.6 +53.6+53.6	63+63+63+63	385×4
GMV-2460WM/E-X		246.0	246.0	276.0	102.53	54.68	75.60	(1340×765×1740) ×4	16000×4	82	Ф22.2	Ф44.5	Ф9.52	53.6+53.6 +53.6+53.6	63+63+63+63	385×4

Note: Nom.* is the power input that tested with duct type IDU.





GMV5E (SASO) 380-415V, 50/60Hz

١	Model		GMV-224WM/E-X(S)	GMV-280WM/E1-X(S)	GMV-280WM/E-X(S)	GMV-335WM/E-X(S)	GMV-400WM/E-X(S)	
Capacity range		HP	8	10	10	12	14	
	0	kW	22.20	27.90	27.90	33.30	40.00	
O 15 O - O - (1)	Capacity	Btu/h	76000	95000	95000	114000	136000	
Cooling-35°C (1)	Power input	kW	5.42	7.45	6.90	8.86	10.65	
	EER	(Btu/h)/W	14.0	12.7	13.7	12.9	12.7	
	0	kW	18.9	23.7	23.7	28.5	34.0	
O 1 40°C (2)	Capacity	Btu/h	65000	81000	81000	97000	116000	
Cooling-46°C (2)	Power input	kW	6.35	8.25	7.80	10.00	11.40	
	EER	(Btu/h)/W	10.24	9.82	10.38	9.70	10.18	
	0	kW	25.00	31.50	31.50	37.50	45.00	
(2)	Capacity	Btu/h	85000	107000	107000	128000	153000	
Heating ⁽³⁾	Power input	kW	5.5	7.3	7.3	9.0	11.1	
	COP	kW/kW	4.55	4.32	4.32	4.17	4.05	
Connected indoor unit	Maximum quanti	ty	13	16	16	19	23	
0	Туре		Inverter scroll	Inverter scroll	Inverter scroll	Inverter scroll	Inverter scroll+Inverter scroll	
Compressors	Quantity		1	1	1	1	2	
	Туре		Axial-flow	Axial-flow	Axial-flow	Axial-flow	Axial-flow	
Fan motors	Quantity		1	1	1	2	2	
	Static pressure	Pa	82	82	82	82	82	
Defricerent	Туре		R410A	R410A	R410A	R410A	R410A	
Refrigerant	Factory charge	kg	5.9	6.7	9.0	8.2	9.8	
Ding connections	Liquid pipe	mm	Ф9.52	Ф9.52	Ф9.52	Ф12.7	Ф12.7	
Pipe connections	Gas pipe	mm	Ф19.05	Ф22.2	Ф22.2	Ф25.4	Ф25.4	
Airflow rate		m³/h	11400	11400	11400	14000	14000	
Sound pressure level		dB(A)	60	61	61	63	63	
Net dimensions(W×H×I	D)	mm	930×1605×765	930×1605×765	930×1605×765	1340×1605×765	1340×1605×765	
Packed dimensions(Wx	(H×D)	mm	1010×1775×840	1010×1775×840	1010×1775×840	1420×1775×840	1420×1775×840	
Net weight		kg	225	225	235	285	360	
Gross weight		kg	235	235	245	300	375	
Ambient temp.	Cooling	°C	-5~52	-5~52	-5~52	-5~52	-5~52	
operation range	Heating	°C	-20~24	-20~24	-20~24	-20~24	-20~24	

1	Model		GMV-450WM/E1-X(S)	GMV-450WM/E-X(S)	GMV-504WM/E-X(S)	GMV-560WM/E-X(S)	GMV-615WM/E-X(S)	
Capacity range		HP	16	16	18	20	22	
		kW	45.00	45.00	50.00	56.00	61.50	
	Capacity	Btu/h	152000	152000	172000	190000	208000	
Cooling-35°C (1)	Power input	kW	13.03	12.57	15.00	16.50	18.50	
	EER	(Btu/h)/W	11.6	12.1	11.5	11.5	11.2	
		kW	38.0	38.0	40.0	47.5	49.0	
2 11 1225 (2)	Capacity	Btu/h	130000	130000	136000	162000	168000	
Cooling-46°C (2)	Power input	kW	14.00	12.77	14.00	16.80	18.00	
	EER	(Btu/h)/W	9.30	10.20	9.70	9.60	9.30	
		kW	50.0	50.0	56.5	63.0	69.0	
	Capacity	Btu/h	170000	170000	192000	215000	235000	
Heating ⁽³⁾	Power input	kW	13.0	13.0	14.1	16.6	18.9	
	COP	kW/kW	3.85	3.85	4.00	3.80	3.65	
Connected indoor unit	t Maximum quantity		26	26	29	33	36	
	Туре		Inverter scroll+Inverter scroll					
Compressors	Quantity		2	2	2	2	2	
	Туре		Axial-flow	Axial-flow	Axial-flow	Axial-flow	Axial-flow	
Fan motors	Quantity		2	2	2	2	2	
	Static pressure	Pa	82	82	82	82	82	
D. ()	Туре		R410A	R410A	R410A	R410A	R410A	
Refrigerant	Factory charge	kg	10.3	10.3	11.3	14.3	14.3	
Discounting	Liquid pipe	mm	Ф12.7	Ф12.7	Ф15.9	Ф15.9	Ф15.9	
Pipe connections	Gas pipe	mm	Ф28.6	Ф28.6	Ф28.6	Ф28.6	Ф28.6	
Airflow rate		m³/h	14000	16000	16000	16000	16000	
Sound pressure level		dB(A)	63	63	63	63	64	
Net dimensions(WxHxI	D)	mm	1340×1605×765	1340×1740×765	1340×1740×765	1340×1740×765	1340×1740×765	
Packed dimensions(Wx	«H×D)	mm	1420×1775×840	1420×1910×840	1420×1910×840	1420×1910×840	1420×1910×840	
Net weight		kg	360	360	360	385	385	
Gross weight		kg	375	375	375	400	400	
Ambient temp.	Cooling	°C	-5~52	-5~52	-5~52	-5~52	-5~52	
operation range	Heating	°C	-20~24	-20~24	-20~24	-20~24	-20~24	

Note: (1) Indoor temperature: 27°CDB, 19°CWB; outdoor temperature: 35°CDB; (2) Indoor temperature: 29°CDB, 19°CWB; outdoor temperature: 46°CDB; (3) Indoor temperature: 20°CDB; outdoor temperature: 7°CDB, 6°CWB.



		Сар	acity	Powe	r input	Dimension	Airflow volume	ESP	Sound pressure	Operation sound pressure	Cor	nnecting	pipe	Min. circuit	Max. fuse	Weight
Model	Power supply	Cooling	Heating	Cooling	Heating	(WxDxH)	, arrion volunte	_01	level	level at night	Liquid	Gas	Oil balance	current	current	sigi ii
	V/Ph/Hz	kW	kW	kW	kW	mm	m³/h	Pa	dB(A)	dB(A)	mm	mm	mm	Α	А	kg
GMV-680WM/E-X(S)		67.90	76.50	17.55	18.40	(930×765×1605) +(1340×765×1605)	11400+14000		65	43	Ф15.9	Ф28.6		20.9+28.8	25+40	235+360
GMV-730WM/E-X(S)		72.90	81.50	19.47	20.30	(930×765×1605) +(1340×765×1740)	11400+16000		65	43	Ф19.05	Ф31.8		20.9+33.2	25+40	235+360
GMV-785WM/E-X(S)		77.90	88.00	21.90	21.40	(930×765×1605) +(1340×765×1740)	11400+16000		66	43	Ф19.05	Ф31.8		20.9+42.9	25+50	235+360
GMV-850WM/E-X(S)		83.90	94.50	23.40	23.90	(930×765×1605) +(1340×765×1740)	11400+16000		67	43	Ф19.05	Ф31.8		20.9+46.5	25+63	235+385
GMV-900WM/E-X(S)		89.40	100.50	25.40	26.20	(930×765×1605) +(1340×765×1740)	11400+16000		67	43	Ф19.05	Ф31.8		20.9+48.3	25+63	235+385
GMV-960WM/E-X(S)		94.80	106.50	27.36	27.90	(1340×765×1605) +(1340×765×1740)	14000+16000		68	43	Ф19.05	Ф31.8		24.7+48.3	32+63	285+385
GMV-1010WM/E-X(S))	101.50	114.00	29.15	30.00	(1340×765×1605) +(1340×765×1740)	14000+16000		68	43	Ф19.05	Ф38.1		28.8+48.3	40+63	360+385
GMV-1065WM/E-X(S))	106.50	119.00	31.07	31.90	(1340×765×1740)×2	16000+16000		68	43	Ф19.05	Ф38.1		33.2+48.3	40+63	360+385
GMV-1130WM/E-X(S))	111.50	125.50	33.50	33.00	(1340×765×1740) ×2	16000+16000		68	43	Ф19.05	Ф38.1		42.9+48.3	50+63	360+385
GMV-1180WM/E-X(S))	117.50	132.00	35.00	35.50	(1340×765×1740)×2	16000+16000		69	43	Ф19.05	Ф38.1		46.5+48.3	63+63	385+385
GMV-1235WIWE-X(S))	123.00	138.00	37.00	37.80	(1340×765×1740) ×2	16000+16000		69	43	Ф19.05	Ф38.1		48.3+48.3	63+63	385+385
GMV-1300WIW/E-X(S))	128.90	144.50	35.97	36.90	(930×765×1605) +(1340×765×1740)×2	11400+16000+16000		69	45	Ф19.05	Ф38.1		20.9+33.2+46.5	25+40+63	235+360+385
GMV-1350WW/E-X(S))	134.40	150.50	37.97	39.20	(930×765×1605) +(1340×765×1740)×2	11400+16000+16000		69	45	Ф19.05	Ф38.1		20.9+33.2+48.3	25+40+63	235+360+385
GMV-1410WM/E-X(S))	139.80	156.50	39.93	40.90	(1340×765×1605) +(1340×765×1740)×2	14000+16000+16000		69	45	Ф19.05	Ф41.3		24.7+33.2+48.3	32+40+63	285+360+385
GMV-1460WM/E-X(S))	145.40	163.50	41.90	42.80	(930×765×1605) +(1340×765×1740)×2	11400+16000+16000		69	45	Ф19.05	Ф41.3		20.9+46.5+48.3	25+63+63	235+385+385
GMV-1515WM/E-X(S)	380V- 415V	150.90	169.50	43.90	45.10	(930×765×1605) +(1340×765×1740)×2	11400+16000+16000		70	45	Ф19.05	Ф41.3		20.9+48.3+48.3	25+63+63	235+385+385
GMV-1580WM/E-X(S)	~	156.30	175.50	45.86	46.80	(1340×765×1605) +(1340×765×1740)×2	14000+16000+16000	82	70	45	Ф19.05	Ф41.3	Ф9.52	24.7+48.3+48.3	32+63+63	285+385+385
GMV-1630WM/E-X(S)	50/60 Hz	163.00	183.00	47.65	48.90	(1340×765×1605) +(1340×765×1740)×2	14000+16000+16000		70	45	Ф19.05	Ф41.3		28.8+48.3+48.3	40+63+63	360+385+385
GMV-1685WM/E-X(S))	168.00	188.00	49.57	50.80	(1340×765×1740) ×3	16000+16000+16000		70	45	Ф19.05	Ф41.3		33.2+48.3+48.3	40+63+63	360+385+385
GMV-1750WM/E-X(S))	173.00	194.50	52.00	51.90	(1340×765×1740) ×3	16000+16000+16000		70	45	Ф19.05	Ф41.3		42.9+48.3+48.3	50+63+63	360+385+385
GMV-1800WM/E-X(S))	179.00	201.00	53.50	54.40	(1340×765×1740) ×3	16000+16000+16000		71	45	Ф19.05	Ф41.3		46.5+48.3+48.3	63+63+63	385+385+385
GMV-1845WM/E-X(S))	184.50	207.00	55.50	56.70	(1340×765×1740) ×3	16000+16000+16000		71	45	Ф19.05	Ф41.3		48.3+48.3+48.3	63+63+63	385+385+385
GMV-1908WM/E-X(S))	190.40	213.50	54.47	55.80	(930×765×1605) +(1340×765×1740)×3	11400+16000 +16000+16000		72	47	Ф22.2	Ф44.5		20.9+33.2 +46.5+48.3	25+40+63+63	235+360 +385+385
GMV-1962WM/E-X(S))	195.40	220.00	56.90	56.90	(930×765×1605) +(1340×765×1740)×3	11400+16000 +16000+16000		73	47	Ф22.2	Ф44.5		20.9+42.9 +46.5+48.3	25+50+63+63	235+360 +385+385
GMV-2016WM/E-X(S))	201.40	226.50	58.40	59.40	(930×765×1605) +(1340×765×1740)×3	11400+16000 +16000+16000		73	47	Ф22.2	Ф44.5		20.9+46.5 +46.5+48.3	25+63+63+63	235+385 +385+385
GMV-2072WM/E-X(S))	206.90	232.50	60.40	61.70	(930×765×1605) +(1340×765×1740)×3	11400+16000 +16000+16000		73	47	Ф22.2	Ф44.5		20.9+46.5 +48.3+48.3	25+63+63+63	235+385 +385+385
GMV-2128WIWE-X(S))	212.40	238.50	62.40	64.00	(930×765×1605) +(1340×765×1740)×3	11400+16000 +16000+16000		73	47	Ф22.2	Ф44.5		20.9+48.3 +48.3+48.3	25+63+63+63	235+385 +385+385
GMV-2184WM/E-X(S))	217.80	244.50	64.36	65.70	(1340×765×1605) +(1340×765×1740)×3	14000+16000 +16000+16000		74	47	Ф22.2	Ф44.5		24.7+48.3 +48.3+48.3	32+63+63+63	285+385 +385+385
GMV-2240WM/E-X(S))	224.50	252.00	66.15	67.80	(1340×765×1605) +(1340×765×1740)×3	14000+16000 +16000+16000		74	47	Ф22.2	Ф44.5		28.8+48.3 +48.3+48.3	40+63+63+63	360+385 +385+385
GMV-2295WW/E-X(S))	229.50	257.00	68.07	69.70	(1340×765×1740) ×4	16000+16000 +16000+16000		74	47	Ф22.2	Ф44.5		33.2+48.3 +48.3+48.3	40+63+63+63	360+385 +385+385
GMV-2350WM/E-X(S))	234.50	263.50	70.50	70.80	(1340×765×1740) ×4	16000+16000 +16000+16000		75	47	Ф22.2	Ф44.5		42.9+48.3 +48.3+48.3	50+63+63+63	360+385 +385+385
GMV-2405WM/E-X(S))	240.50	270.00	72.00	73.30	(1340×765×1740)×4	16000+16000 +16000+16000		75	47	Ф22.2	Ф44.5		46.5+48.3 +48.3+48.3	63+63+63+63	385+385 +385+385
GMV-2460WM/E-X(S))	246.00	276.00	74.00	75.60	(1340×765×1740) ×4	16000+16000 +16000+16000		75	47	Ф22.2	Ф44.5		48.3+48.3 +48.3+48.3	63+63+63+63	385+385 +385+385

GMV5(Kuwait) 380-415V, 50/60Hz

	Model		GMV-224WM/B-X(K)	GMV-280WM/B-X(K)	GMV-335WM/B-X(K)	
Capacity range		HP	8	10	12	
		kW	22.4	28.0	33.5	
O1: 05°C (1)	Capacity	Btu/h	76430	95540	114300	
Cooling-35°C (1)	Power input	kW	5.86	7.80	9.88	
	EER	(Btu/h)/W	13.03	12.35	11.60	
	0	kW	20.16	23.80	28.48	
01: 40% (2)	Capacity	Btu/h	68800	81200	97150	
Cooling-46°C (2)	Power input	kW	6.70	7.99	9.40	
	EER	(Btu/h)/W	9.5	9.4	9.6	
	0it	kW	25.0	31.5	37.5	
(3)	Capacity	Btu/h	85300	107480	127950	
Heating ⁽³⁾	Power input	kW	5.1	6.6	8.5	
	COP	kW/kW	4.90	4.77	4.41	
Connected indoor unit	Maximum qua	antity	13	16	19	
Compressor	Туре		Inverter scroll	Inverter scroll	Inverter scroll	
Compressors	Quantity		1	1	1	
	Туре		Axial-flow Axial-flow		Axial-flow	
Fan motors	Quantity		1	2	2	
	Static pressure	Pa	82	82	82	
	Туре		R410A	R410A	R410A	
Refrigerant	Factory charge	kg	9	9.7	9.7	
Pipe connections	Liquid pipe	mm	Ф9.52	Ф9.52	Ф12.7	
ripe connections	Gas pipe	mm	Ф19.05	Ф22.2	Ф25.4	
Airflow rate		m³/h	11400	14000	14000	
Sound pressure level		dB(A)	61	63	63	
Net dimensions(WxHxD)		mm	930×1605×765	1340×1605×765	1340×1605×765	
Packed dimensions(WxHxD)		mm	1010×1775×840	1420×1775×840	1420×1775×840	
Net weight		kg	235	290	290	
Gross weight		kg	245	305	305	
Ambient temp.	Cooling	°C	-5~55	-5~55	-5~55	
operation range	Heating	℃	-20~24	-20~24	-20~24	

Note: (1) Indoor temperature: 26.6°CDB, 19.4°CWB; outdoor temperature: 35°CDB; (2) Indoor temperature: 26.6°CDB, 19°CWB; outdoor temperature: 46°CDB; (3) Indoor temperature: 20°CDB; outdoor temperature: 7°CDB, 6°CWB.



		Cap	acity	Powe	r input	Dimension(WxDxH)	volume Airflow	ESP	Sound	Operation sound pressure	Con	necting	pipe	Min. circuit	Max. fuse	Weight
Model	Power supply	Cooling	Heating	Cooling	Heating				level	level at night	Liquid	Gas	Oil balance	current	current	g.i.
	V/Ph/Hz	kW	kW	kW	kW	mm	m³/h	Pa	dB(A)	dB(A)	mm	mm	mm	A	Α	kg
GMV-450WM/B-X(K)		45.0	50.0	11.72	10.20	(930×765×1605)×2	11400+11400		63	43	Ф12.7	Ф28.6		16.1+16.1	20+20	235+235
GMV-504WM/B-X(K)		50.4	56.5	13.66	11.70	(930×765×1605) +(1340×765×1605)	11400+14000		64	43	Ф15.9	Ф28.6		16.1+20.9	20+25	235+290
GMV-560WM/B-X(K)		56.0	63.0	15.74	13.60	(930×765×1605) +(1340×765×1605)	11400+14000		64	43	Ф15.9	Ф28.6		16.1+24.7	20+32	235+290
GMV-615WM/B-X(K)		61.5	69.0	17.68	15.10	(1340×765×1605)×2	14000+14000		65	43	Ф15.9	Ф28.6		20.9+24.7	25+32	290+290
GMV-680WM/B-X(K)		68.0	76.5	19.76	17.00	(1340×765×1605)×2	14000+14000		65	43	Ф15.9	Ф28.6		24.7+24.7	32+32	290+290
GMV-730WM/B-X(K)		73.0	81.5	19.52	16.80	(930×765×1605)×2 +(1340×765×1605)	11400+11400+14000		66	45	Ф19.05	Ф31.8		16.1+16.1+20.9	20+20+25	235+235+290
GMV-785WM/B-X(K)		78.4	88.0	21.60	18.70	(930×765×1605)×2 +(1340×765×1605)	11400+11400+14000		66	45	Ф19.05	Ф31.8		16.1+16.1+24.7	20+20+32	235+235+290
GMV-850WM/B-X(K)	380V-	84.0	94.5	23.54	20.20	(930×765×1605) +(1340×765×1605)×2	11400+14000+14000		67	45	Ф19.05	Ф31.8		16.1+20.9+24.7	20+25+32	235+290+290
GMV-900WM/B-X(K)	415V 3N	89.5	100.5	25.48	21.70	(1340×765×1605)×3	14000+14000+14000	82	67	45	Ф19.05	Ф31.8	Ф9.52	20.9+20.9+24.7	25+25+32	290+290+290
GMV-960WM/B-X(K)	~ 50/60Hz	95.0	106.5	27.56	23.60	(1340×765×1605)×3	14000+14000+14000		68	45	Ф19.05	Ф31.8		20.9+24.7+24.7	25+32+32	290+290+290
GMV-1010WM/B-X(K)		101.5	114.0	29.64	25.50	(1340×765×1605)×3	14000+14000+14000		68	45	Ф19.05	Ф38.1		24.7+24.7+24.7	32+32+32	290+290+290
GMV-1065WM/B-X(K)		106.5	119.0	29.40	25.30	(930×765×1605)×2 +(1340×765×1605)×2	11400+11400 +14000+14000		68	47	Ф19.05	Ф38.1		16.1+16.1 +20.9+24.7	20+20 +25+32	235+235 +290+290
GMV-1130WM/B-X(K)		111.9	125.5	31.48	27.20	(930×765×1605)×2 +(1340×765×1605)×2	11400+11400 +14000+14000		68	47	Ф19.05	Ф38.1		16.1+16.1 +24.7+24.7	20+20 +32+32	235+235 +290+290
GMV-1180WM/B-X(K)		117.5	132.0	33.42	28.70	(930×765×1605) +(1340×765×1605)×3	11400+14000 +14000+14000		69	47	Ф19.05	Ф38.1		16.1+20.9 +24.7+24.7	20+25 +32+32	235+290 +290+290
GMV-1235WM/B-X(K)		123.0	138.0	35.36	30.20	(1340×765×1605)×4	14000+14000 +14000+14000		69	47	Ф19.05	Ф38.1		20.9+20.9 +24.7+24.7	25+25 +32+32	290+290 +290+290
GMV-1300WM/B-X(K)		129.0	144.5	37.44	32.10	(1340×765×1605)×4	14000+14000 +14000+14000		69	47	Ф19.05	Ф38.1		20.9+24.7 +24.7+24.7	25+32 +32+32	290+290 +290+290
GMV-1350WM/B-X(K)		134.5	150.5	39.52	34.00	(1340×765×1605)×4	14000+14000 +14000+14000		68	47	Ф19.05	Ф38.1		24.7+24.7 +24.7+24.7	32+32 +32+32	290+290 +290+290

GMV5 380-415V,50/60Hz

Mod	el	-	GMV- 224WM/B-X	GMV- 280WM/B-X	GMV- 335WM/B-X	GMV- 400WM/B-X	GMV- 450WM/B-X	GMV- 504WM/B-X	GMV- 560WM/B-X	GMV- 615WM/B-X
Capacity range		HP	8	10	12	14	16	18	20	22
Capacity	Cooling	kW	22.4	28.0	33.5	40.0	45.0	50.4	56.0	61.5
Сарасну	Heating	kW	25.0	31.5	37.5	45.0	50.0	56.5	63.0	69.0
EER		W/W	4.31	4.00	3.98	3.76	3.56	3.55	3.50	3.32
COP		W/W	4.55	4.32	4.17	4.05	3.85	4.01	3.80	3.65
Power supply		V/Ph/Hz				380V-415V 3	3N~ 50/60Hz			
Max. circuit/Fuse cu	ırrent	А	15.7/20.0	20.9/25.0	24.7/32.0	28.8/40.0	33.2/40.0	45.4/50.0	51.1/63.0	59.2/63.0
Power	Cooling	kW	5.20	7.00	8.41	10.65	12.65	14.20	16.00	18.50
consumption	Heating	kW	5.5	7.3	9.0	11.1	13.0	14.1	16.6	18.9
Maximum drive IDU	NO.	unit	13	16	19	23	26	29	33	36
Refrigerant charge	volume	kg	5.9	6.7	8.2	9.8	10.3	11.3	14.3	14.3
Sound pressure lev	el	dB(A)	60	61	63	63	63	63	63	64
	Liquid	mm	Ф9	.52		Ф12.7			Ф15.9	
Connecting pipe	Gas	mm	Ф19.05	Ф22.2	Ф2	5.4	Ф28.6		Ф28.6	
pipo	Oil balance	mm			Ф9.52				Ф9.52	
Dimension	Outline	mm	930×76	5×1605		1340×765×1605			1340×765×1740	
(WxDxH) Package		mm	1010×8	40×1775		1420×840×1775			1420×840×1910	
Net weight/Gross w	Net weight/Gross weight		225/235	225/235	285/300	360/375	360/375	360/375	385/400	385/400
Loading	40' GP	set	24	24	16	16	16	16	16	16
quantity	40' HQ	set	24	24	16	16	16	16	16	16

		Сар	acity	Power	rinnut				01	Operation	Con	necting p	nine			
Model	Power supply	Cooling	Heating	Cooling	Heating	Dimension(WxDxH)	Airflow volume	ESP	Sound pressure level	sound pressure level at night	Liquid	Gas	Oil balance	Min. circuit current	Max. fuse current	Weight
	V/Ph/Hz	kW	kW	kW	kW	mm	m³/h	Pa	d B (A	dB(A)	mm	mm	mm	A	A	kg
GMV-680WM/B-X		68.0	76.5	17.65	18.40	(930×765×1605) +(1340×765×1605)	11400+14000	82	65	43	Ф15.9	Ф28.6	Ф9.52	20.9+28.8	25 + 40	225+360
GMV-730WM/B-X		73.0	81.5	19.65	20.30	(930×765×1605) +(1340×765×1605)	11400+14000	82	65	43	Ф19.05	Ф31.8	Ф9.52	20.9+33.2	25 + 40	225+360
GMV-785WM/B-X		78.4	88.0	21.20	21.40	(930×765×1605) +(1340×765×1740)	11400+16000	82	66	43	Ф19.05	Ф31.8	Ф9.52	20.9+45.4	25 + 50	225+360
GMV-850WM/B-X		84.0	94.5	23.00	23.90	(930×765×1605) +(1340×765×1740)	11400+16000	82	67	43	Ф19.05	Ф31.8	Ф9.52	20.9+51.1	25 + 63	225+385
GMV-900WM/B-X		89.5	100.5	25.50	26.20	(930×765×1605) +(1340×765×1740)	11400+16000	82	67	43	Ф19.05	Ф31.8	Ф9.52	20.9+59.2	25 + 63	225+385
GMV-960WM/B-X		95.0	106.5	26.91	27.90	(1340×765×1605) +(1340×765×1740)	14000+16000	82	68	43	Ф19.05	Ф31.8	Ф9.52	24.7+59.2	32 + 63	285+385
GMV-1010WM/B-X		101.5	114.0	29.15	30.00	(1340×765×1605) +(1340×765×1740)	14000+16000	82	68	43	Ф19.05	Ф38.1	Ф9.52	28.8+59.2	40 + 63	360+385
GMV-1065WM/B-X		106.5	119.0	31.15	31.90	(1340×765×1605) +(1340×765×1740)	14000+16000	82	68	43	Ф19.05	Ф38.1	Ф9.52	33.2+59.2	40 + 63	360+385
GMV-1130WM/B-X		111.9	125.5	32.70	33.00	(1340×765×1740) ×2	16000×2	82	68	43	Ф19.05	Ф38.1	Ф9.52	45.4+59.2	50 + 63	360+385
GMV-1180WM/B-X		117.5	132.0	34.50	35.50	(1340×765×1740) ×2	16000×2	82	69	43	Ф19.05	Ф38.1	Ф9.52	51.1+59.2	63 + 63	385+385
GMV-1235WM/B-X		123.0	138.0	37.00	37.80	(1340×765×1740) ×2	16000×2	82	69	43	Ф19.05	Ф38.1	Ф9.52	59.2+59.2	63 + 63	385+385
GMV-1300WM/B-X		129.0	144.5	35.65	36.90	(930×765×1605) +(1340×765×1605) +(1340×765×1740)	11400+14000+16000	82	69	45	Ф19.05	Ф38.1	Ф9.52	20.9+33.2+51.1	25 + 40 + 63	225+360+385
GMV-1350WM/B-X		134.5	150.5	38.15	39.20	(930×765×1605) +(1340×765×1605) +(1340×765×1740)	11400+14000+16000	82	69	45	Ф19.05	Ф38.1	Ф9.52	20.9+33.2+59.2	25 + 40 + 63	225+360+385
GMV-1410WM/B-X		140.0	156.5	39.56	40.90	(1340×765×1605) ×2+(1340×765×1740)	14000×2+16000	82	69	45	Ф19.05	Ф41.3	Ф9.52	24.7+33.2+59.2	32 + 40 + 63	285+360+385
GMV-1460WM/B-X		145.5	163.5	41.50	42.80	(930×765×1605) +(1340×765×1740) ×2	11400+16000×2	82	69	45	Ф19.05	Ф41.3	Ф9.52	20.9+51.1+59.2	25 + 63 + 63	225+385×2
GMV-1515WM/B-X		151.0	169.5	44.00	45.10	(930×765×1605) +(1340×765×1740) ×2	11400+16000×2	82	70	45	Ф19.05	Ф41.3	Ф9.52	20.9+59.2+59.2	25 + 63 + 63	225+385×2
GMV-1580WM/B-X	380V-415V 3N - 50/60Hz	156.5	175.5	45.41	46.80	(1340×765×1605) +(1340×765×1740) ×2	14000+16000×2	82	70	45	Ф19.05	Ф41.3	Ф9.52	24.7+59.2+59.2	32 + 63 + 63	285+385×2
GMV-1630WM/B-X		163.0	183.0	47.65	48.90	(1340×765×1605) +(1340×765×1740) ×2	14000+16000×2	82	70	45	Ф19.05	Ф41.3	Ф9.52	28.8+59.2+59.2	40 + 63 + 63	360+385×2
GMV-1685WM/B-X		168.0	188.0	49.65	50.80	(1340×765×1605) +(1340×765×1740) ×2	14000+16000×2	82	70	45	Ф19.05	Ф41.3	Ф9.52	33.2+59.2+59.2	40 + 63 + 63	360+385×2
GMV-1750WM/B-X		173.4	194.5	51.20	51.90	(1340×765×1740) ×3	16000×3	82	70	45	Ф19.05	Ф41.3	Ф9.52	45.4+59.2+59.2	50 + 63 + 63	360+385×2
GMV-1800WM/B-X		179.0	201.0	53.00	54.40	(1340×765×1740) ×3	16000×3	82	71	45	Ф19.05	Ф41.3	Ф9.52	51.1+59.2+59.2	63 + 63 + 63	385×3
GMV-1845WM/B-X		184.5	207.0	55.50	56.70	(1340×765×1740) ×3	16000×3	82	71	45	Ф19.05	Ф41.3	Ф9.52	59.2+59.2+59.2	63+63+63	385×3
GMV-1908WM/B-X		190.5	213.5	54.15	55.80	(930×765×1605) +(1340×765×1605) +(1340×765×1740) ×2	11400+14000+16000×2	82	72	47	Ф22.2	Ф44.5	Ф9.52	20.9+33.2+ 51.1+59.2	25+40+63+63	225+360+385×2
GMV-1962WM/B-X		195.9	220.0	55.70	56.90	(930×765×1605) +(1340×765×1740) ×3	11400+16000×3	82	73	47	Ф22.2	Φ44.5	Ф9.52	20.9+45.4+ 51.1+59.2	25+50+63+63	225+360+385×2
GMV-2016WM/B-X		201.5	226.5	57.50	59.40	(930×765×1605) +(1340×765×1740) ×3	11400+16000×3	82	73	47	Ф22.2	Ф44.5	Ф9.52	20.9+51.1+ 51.1+59.2	25+63+63+63	225+385×3
GMV-2072WM/B-X		207.0	232.5	60.00	61.70	(930×765×1605) +(1340×765×1740) ×3	11400+16000×3	82	73	47	Ф22.2	Ф44.5	Ф9.52	20.9+51.1+ 59.2+59.2	25+63+63+63	225+385×3
GMV-2128WM/B-X		212.5	238.5	62.50	64.00	(930×765×1605) +(1340×765×1740) ×3	11400+16000×3	82	73	47	Ф22.2	Ф44.5	Ф9.52	20.9+59.2+ 59.2+59.2	25+63+63+63	225+385×3
GMV-2184WM/B-X		218.0	244.5	63.91	65.70	(1340×765×1605) +(1340×765×1740) ×3	14000+16000×3	82	74	47	Ф22.2	Ф44.5	Ф9.52	24.7+59.2+ 59.2+59.2	32+63+63+63	285+385×3
GMV-2240WM/B-X		224.5	252.0	66.15	67.80	(1340×765×1605) +(1340×765×1740) ×3	14000+16000×3	82	74	47	Ф22.2	Ф44.5	Ф9.52	28.8+59.2+ 59.2+59.2	40+63+63+63	360+385×3
GMV-2295WM/B-X		229.5	257.0	68.15	69.70	(1340×765×1605) +(1340×765×1740) ×3	14000+16000×3	82	74	47	Ф22.2	Ф44.5	Ф9.52	33.2+59.2+ 59.2+59.2	40+63+63+63	360+385×3
GMV-2350WM/B-X		234.9	263.5	69.70	70.80	(1340×765×1740) ×4	16000×4	82	75	47	Ф22.2	Ф44.5	Ф9.52	45.4+59.2+ 59.2+59.2	50+63+63+63	360+385×3
GMV-2405WM/B-X		240.5	270.0	71.50	73.30	(1340×765×1740) ×4	16000×4	82	75	47	Ф22.2	Ф44.5	Ф9.52	51.1+59.2+ 59.2+59.2	63+63+63+63	385×4
GMV-2460WM/B-X		246.0	276.0	74.00	75.60	(1340×765×1740) ×4	16000×4	82	75	47	Ф22.2	Ф44.5	Ф9.52	59.2+59.2+ 59.2+59.2	63+63+63+63	385×4



GMV5 Mini & Slim



Key Features

All DC Inverter Technology to Improve Compression Efficiency

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

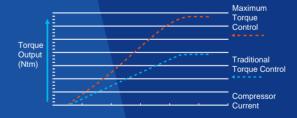
All DC Inverter Compressor

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



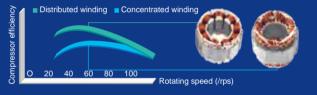
- High-efficient permasyn motor is adopted to provide better performance than traditional DC inverter compressor.
- Technology of Maximum Torque Control with Minimum Current

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

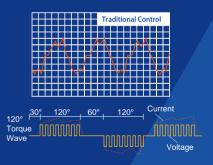


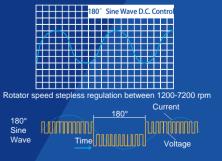
• Low-frequency Torque Control It can directly control motor torque, through which fan motor can run at a low speed. Users will feel more comfortable while requirements of the system are also met.





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





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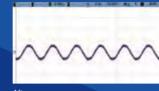
Sensorless DC Inverter Fan Motor

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



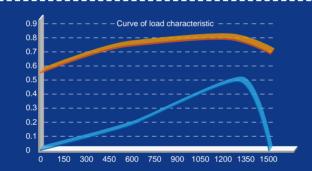
• Sensorless control technology guarantees lower noise, less vibration and steadier operation.





Sensorless DC Inverter Fan Motor

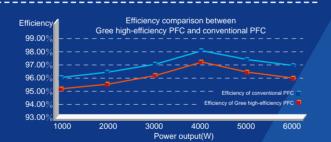
The indoor unit adopts high-efficiency brushless DC motor. Compared with conventional motor, the efficiency of brushless DC motor is improved by more than 30%. Meanwhile, the design of evaporation capacity flow is optimized through emulation software of refrigeration system and the heat exchange amount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



High-efficiency Digital PFC Control *

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

*This feature is applicable for GMV5 Mini only.



Wider Operation Condition Range

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



Comfortable and Quiet Model

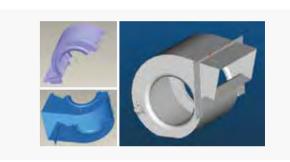
Low Noise of Outdoor Unit

- The advanced sub-cooling control technology is applied to reduce the liquid flow noise of indoor unit in cooling operation.
- Noise of outdoor unit can be as low as 45dB(A) thanks to noise optimized design or fan system and compressor system, and multiple kinds of quiet modes of outdoor unit.



Low Noise of Indoor Unit

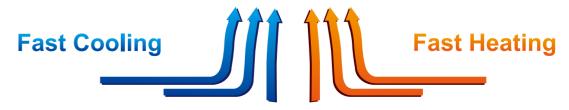
 The pioneering and patented high-efficiency centrifugal fan blade and low-noise volute are adopted. Meanwhile, the imported silent valve is adopted to reduce noise of entire unit as low as 22dB(A).



- By adopting the optimal inlet angle of centrifugal fan blade and optimal diameter ratio between internal and external circles of impeller, the air volume is increased and fan noise is decreased greatly.
- The advanced supercooling control technology and the oil-return technology under heating mode has efficiently solved the problem of liquid flow noise of indoor unit, which improved the sound quality of indoor unit.

▼ Intelligent Temperature Control Technology

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

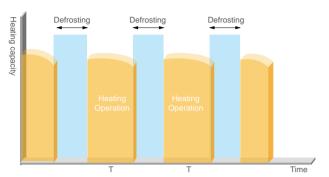


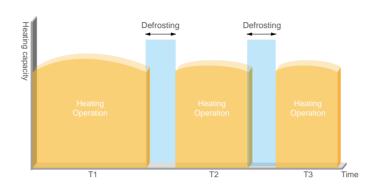
▼ Intelligent Defrosting Control

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





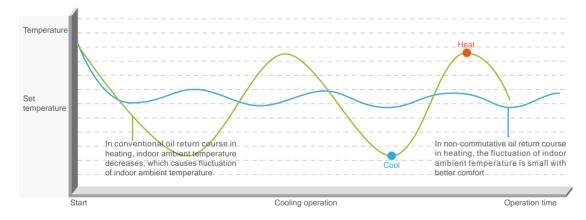




Note: This feature is fit for heat pump models only.

Non-commutative Oil Return Technology in Heating

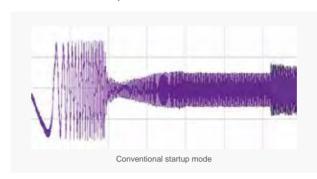
The unit can achieve non-commutative oil return in heating when outdoor ambient temperature is within 0~20°C. Thanks to this technology, indoor ambient temperature is more stable and comfort is improved in heating mode.

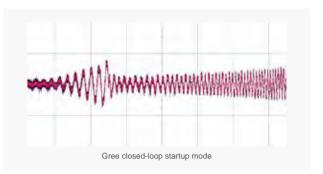


Reliable Operation

Compressor Closed-loop Startup Technology with More Reliable Startup

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





▼ High Anti-interference Ability

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







Advanced High-frequency Transformer with More Stable Voltage

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

Refrigerant Cooling Technology

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





Common heat radiation





Easy Installation and Transportation |

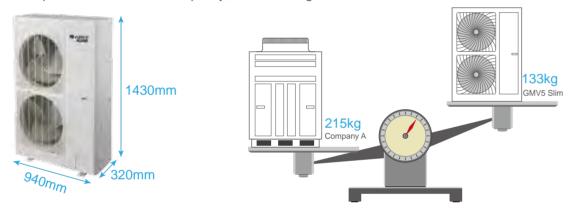
▼ Ultra-long Connecting Pipe for More Convenient Connection

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

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

▼ Top Advanced Light and Compact Size

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



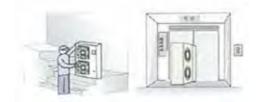
▼ Easy Installation with Lower Construction Cost

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



Movement by Stairs and Elevator

The outdoor unit of GMV5 Slim is with compact and small size for saving space and easy movement. It can be carried by elevator or stairs.



GMV5 Mini & Slim Lineup

Mini Lineup (220-240V/50Hz & 208-230V/60Hz)

HP	Model	Product
3	GMV-80WL/C-T	attact not
3.5	GMV-100WL/C-T	650 -
4	GMV-121WL/C-T	1000
5	GMV-141WL/C-T	

Mini Lineup (220-240V/50Hz & 208-230V/60Hz & 380-415V/50/60Hz)

HP	Model	Product				
	GMV-120WL/C-T					
4	GMV-120WL/C-X					
	GMV-120WL/C-T(S)	attended from				
	GMV-140WL/C-T	(B)				
5	GMV-140WL/C-X					
	GMV-140WL/C-T(S)	WHO I				
	GMV-160WL/C-T					
6	GMV-160WL/C-X					
	GMV-160WL/C-T(S)					

▼ Slim Lineup (380-415V, 50/60Hz)

HP	Model	Product
8	GMV-224WL/C-X	0-
	GMV-H224WL/A-X	
10	GMV-280WL/C-X	AD.
	GMV-H280WL/A-X	6
12	GMV-335WL/C-X	(III)
12	GMV-H335WL/A-X	



Mini

50Hz&60Hz (220-240V & 208-230V)

	Model		GMV-80WL/C-T	GMV-100WL/C-T	GMV-121WL/C-T		
Capacity range		HP	3.0	3.5	4.0		
Oit.	Cooling	kW	8.0	10.0	12.1		
Capacity	Heating	kW	9	11	13		
EER		W/W	3.90	3.70	3.51		
COP		W/W	4.74	4.40	4.81		
Power supply		V/Ph/Hz	//Ph/Hz 220V-240V ~ 50Hz & 208V/230V ~ 60Hz				
Max. circuit/Fuse current		A	25	25	32		
D	Cooling	kW	2.05	2.70	3.45		
Power consumption	Heating	kW	1.9	2.5	2.7		
Maximum drive IDU NO.		unit	4	5	6		
Refrigerant charge volume		kg	1.8	1.8	2.0		
Sound pressure level		dB(A)	56	56	57		
	Liquid	mm	Ф9.52	Ф9.52	Ф9.52		
Connecting pipe	Gas	mm	Ф15.9	Ф15.9	Ф15.9		
Discoursian (M. D. II)	Outline	mm	980×360×790	980×360×790	980×360×790		
Dimension(W×D×H)	Package	mm	1097×477×937	1097×477×937	1097×477×937		
Net weight/Gross weight	kg	80/90	80/90	85/95			
I and a second to	40' GP	set	96	96	96		
Loading quantity	40' HQ	set	96	96	96		

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

	Model		GMV-120WL/C-T	GMV-140WL/C-T	GMV-141WL/C-T	GMV-160WL/C-T
Capacity range		HP	4	5	5	6
	Cooling	kW	12.1	14.0	14.1	16.0
Capacity	Heating	kW	14.0	16.5	16.0	18.0
EER		W/W	3.99	3.90	3.60	3.37
COP		W/W	4.28	4.18	3.85	3.87
Power supply		V/Ph/Hz		220V-240V ~ 50Hz	& 208V/230V ~ 60Hz	
Max. circuit/Fuse current		A	32	40	40	40
D	Cooling	kW	3.03	3.59	3.92	4.75
Power consumption	Heating	kW	3.27	3.95	4.16	4.65
Maximum drive IDU NO.	·	unit	7	8	8	9
Refrigerant charge volume		kg	3.3	3.3	3.3	3.3
Sound pressure level		dB(A)	57	58	58	58
	Liquid	mm	Ф9.52	Ф9.52	Ф9.52	Ф9.52
Connecting pipe	Gas	mm	Ф15.9	Ф15.9	Ф15.9	Ф19.05
B: : 04/ B 1/0	Outline	mm	900×340×1345	900×340×1345	940x460x820	900×340×1345
Dimension(W×D×H)	Package	mm	998×458×1500	998×458×1500	1023×563×973	998×458×1500
Net weight/Gross weight kg			112/123	112/123	98/108	112/123
1	40' GP	set	57	57	88	57
Loading quantity	40' HQ	set	57	57	88	57

Note: (1)The ODU operation temperature range is -5~52°C in cooling and -20~27°C in heating.

(2) Heat radiation by refrigerant.



	Model		GMV-120WL/C-T(S)	GMV-140WL/C-T(S)	GMV-160WL/C-T(S)	
Capacity range	Model	HP	4	5	6	
Capacity range				13.95	15.75	
	Capacity	kW	12.30			
Cooling-35°C (1)		Btu/h	42000	48000	54000	
	Power input	kW	2.8	3.6	4.4	
	EER	(Btu/h)/W	15.00	13.33	12.27	
	Capacity	kW	10.80	12.30	13.35	
Cooling-46°C (2)	Capacity	Btu/h	37000	42000	46000	
000iiig-40 C	Power input	kW	3.50	4.30	5.35	
	EER	(Btu/h)/W	10.57	9.77	8.60	
	Conneity	kW	13.95	16.50	18.00	
	Capacity	Btu/h	47000	56000	61000	
Heating ⁽³⁾	Power input	kW	3.3	4.0	4.7	
	202	(Btu/h)/W	14.24	14.00	12.98	
	COP	W/W	4.23	4.12	3.83	
Oit	Total capacity		12.30	13.95	15.75	
Connected indoor unit	Maximum quantity		7	8	9	
Compressors	Туре		Inverter rotary	Inverter rotary	Inverter rotary	
Compressors	Quantity		1	1	1	
	Туре		Axial-flow	Axial-flow	Axial-flow	
Fan motors	Quantity		2	2	2	
	Static pressure	Pa	0	0	0	
Defricerent	Туре		R410A	R410A	R410A	
Refrigerant	Factory charge	kg	3.3	3.3	3.3	
0(4)	Liquid pipe	mm	Ф9.52	Ф9.52	Ф9.52	
Connecting pipe ⁽⁴⁾	Gas pipe	mm	Ф15.9	Ф15.9	Ф19.05	
Airflow rate		m³/h	6000	6300	6600	
Sound pressure level ⁽⁵⁾		dB(A)	57	58	58	
Net dimensions (WxHxD)		mm	900×1345×340	900×1345×340	900×1345×340	
Packed dimensions(WxHxD)		mm	998×1500×458	998×1500×458	998×1500×458	
Net weight		kg	112	112	112	
Gross weight		kg	123	123	123	
	Cooling	°C	-5~52	-5~52	-5~52	
Ambient temp. operation range	Heating	°C	-20~27	-20~27	-20~27	

Note: (1) Indoor temperature: 27°CDB, 19°CWB; outdoor temperature: 35°CDB; AHRI 1230:2010; power input indoor units (duct type) included. As per AHRI/SASO.
(2) Indoor temperature: 29°CDB, 19°CWB; outdoor temperature: 46°CDB; ISO 15042:2011; power input indoor units (duct type) included. As per ESMA.
(3) Indoor temperature: 20°CDB; outdoor temperature: 7°CDB, 6°CWB; based on Eurovent testing; power input indoor units not included. As per Estidama.
(4) Diameters given are those for the pipe connecting the outdoor unit combination to the first indoor branch joint for systems with total equivalent liquid piping lengths of less than 90m. For systems with total equivalent liquid piping lengths of 90m or longer, please refer to the V6 Series Engineering Data Book for connection piping diameters.
(5) Sound pressure level is measured at a position 1m in front of the unit and 1.3m above the floor in a semi-anechoic chamber.

GMV5 **5** 37/38





50Hz&60Hz (380-415V)

Mod	el		GMV-120WL/C-X	GMV-140WL/C-X	GMV-160WL/C-X	
Capacity range		HP	4	5	6	
0	Cooling	kW	12.1	14.0	16.0	
Capacity	Heating	kW	14.0	16.5	18.0	
EER		W/W	3.99	3.90	3.37	
COP		W/W	4.28	4.18	3.87	
Power supply		V/Ph/Hz		380V-415V 3N~ 50/60Hz		
Max. circuit/Fuse current		А	16/5	16/5	16/5	
	Cooling	kW	3.03	3.59	4.75	
Power consumption	Heating	kW	3.27	3.95	4.65	
Maximum drive IDU NO.		unit	7	8	9	
Refrigerant charge volume		kg	3.3	3.3	3.3	
Sound pressure level		dB(A)	57	58	58	
	Liquid	mm	Ф9.52	Ф9.52	Ф9.52	
Connecting pipe	Gas	mm	Ф15.9	Ф15.9	Ф19.05	
	Outline	mm	900×340×1345	900×340×1345	900×340×1345	
Dimension(W×D×H)	Package	mm	998×458×1500	998×458×1500	998×458×1500	
Net weight/Gross weight kg		kg	122/133	122/133	122/133	
I P	40' GP	set	57	57	57	
Loading quantity	40' HQ	set	57	57	57	

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





50/60Hz (380-415V)

	Model		GMV-224WL/C-X	GMV-280WL/C-X	GMV-335WL/C-X
Capacity range	·	HP	8	10	12
Canasity	Cooling	kW	22.4	28.0	33.5
Capacity	Heating	kW	24	30	35
EER		W/W	3.66	3.60	3.50
COP		W/W	4.9	4.9	4.9
Max. circuit/Fuse current		A	20/5	25/5	32/5
Power supply		V/Ph/Hz		380V-415V 3N~ 50/60Hz	
Power	Cooling	kW	6.12	7.78	9.57
consumption	Heating	kW	4.90	6.12	7.14
Maximum drive IDU NO.	·	unit	13	17	20
Refrigerant charge volume		kg	5.5	8.0	
Sound pressure level		dB(A)	60 62		63
Connecting	Liquid	mm	Ф9.52	Ф9.52	Ф12.7
pipe	Gas	mm	Ф19.05	Ф22.2	Ф25.4
Dimension	Outline	mm	940×320×1430	940×460×1615	940×460×1615
(W×D×H)	Package	mm	1038×438×1580	1038×578×1765	1038×578×1765
Net weight/Gross weight		kg	133/144	166/183	177/194
Loading	40' GP	set	56	44	44
quantity	40' HQ	set	56	44	44

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



	Model		GMV-H224WL/A-X	GMV-H280WL/A-X	GMV-H335WL/A-X
Capacity range		HP	8	10	12
	0	kW	22.2	27.9	33.3
0	Capacity	Btu/h	76000	95000	114000
Cooling-35°C (1)	Power input	kW	5.8	7.2	9.1
	EER	(Btu/h)/W	13.1	13.2	12.5
	Conseitu	kW	18.9	22.8	28.5
Connected indoor unit Compressors	Capacity	Btu/h	65000	78000	97000
	Power input	kW	6.6	7.9	9.2
	EER	(Btu/h)/W	9.8	9.8	10.5
	0	kW	24.0	30.0	35.1
Heating ⁽³⁾	Capacity	Btu/h	82000	102000	120000
	Power input	kW	5.4	6.9	8.2
	COP	(Btu/h)/W	15.2	14.8	14.6
	COP	W/W	4.44	4.35	4.28
	Total capacity		22.2	27.9	33.3
Connected indoor unit	Maximum quantity		13	17	20
0	Туре		Inverter rotary+	Inverter scroll+	Inverter scroll+
Compressors	Quantity		1	1	1
	Туре		Axial-flow	Axial-flow	Axial-flow
Fan motors	Quantity		2	2	2
	Static pressure	Pa	0	0	0
Detrinocost	Туре		R410A	R410A	R410A
Refrigerant	Factory charge	kg	5.5	7.1	8.0
. (4)	Liquid pipe	mm	Ф9.52	Ф9.52	Ф12.7
Connecting pipe ⁽⁴⁾	Gas pipe	mm	Ф19.05	Ф22.2	Ф25.4
Airflow rate	·	m³/h	8000	11000	11000
Sound pressure level ⁽⁵⁾		dB(A)	60	62	63
Net dimensions(W×H×D)		mm	940×1430×320	940×1615×460	940×1615×460
Packed dimensions(WxHxD)		mm	1038×1580×438	1038×1765×578	1038×1765×578
Net weight		kg	133	166	177
Gross weight		kg	144	183	194
	Cooling	℃	-5~52	-5~52	-5~52
Ambient temp. operation range	Heating	℃	-20~27	-20~27	-20~27

Note: (1) Indoor temperature: 27°CDB, 19°CWB; outdoor temperature: 35°CDB; AHRI 1230:2010; power input indoor units (duct type) included. As per AHRI/SASO. (2) Indoor temperature: 29°CDB, 19°CWB; outdoor temperature: 46°CDB; ISO 15042:2011; power input indoor units (duct type) included. As per ESMA. (3) Indoor temperature: 20°CDB; outdoor temperature: 7°CDB, 6°CWB; based on Eurovent testing; power input indoor units not included. As per Estidama. (4) Diameters given are those for the pipe connecting the outdoor unit combination to the first indoor branch joint for systems with total equivalent liquid piping lengths of less than 90m. For systems with total equivalent liquid piping lengths of 90m or longer, please refer to the V6 Series Engineering Data Book for connection piping diameters. (5) Sound pressure level is measured at a position 1m in front of the unit and 1.3m above the floor in a semi-anechoic chamber.



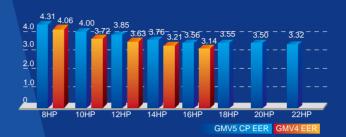
GMV5 CP

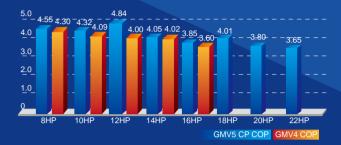


Key Features

High Efficiency and More Energy Saving

Thanks to the advanced DC inverter technology, optimized system design and accurate intelligent control technology, EER of GMV5 CP is up to 4.31 while COP is up to 4.84.





88HP Max Capacity-The Largest Free Combination

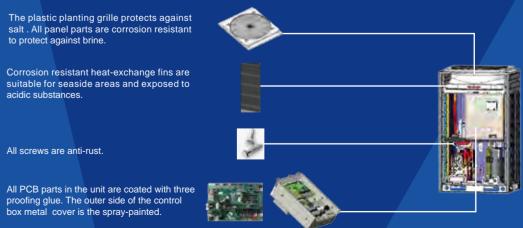
Max. capacity of single outdoor unit reaches 22HP and max. combination capacity is even up to 88HP, in an industry leading level.

Max. combination capacity is extended to 88HP



High Corrosion Resistant

The GMV5 CP unit adopts corrosion-resistance materials on both metal and electronic parts, which enables it to be installed near the sea.



proofing glue. The outer side of the control



Intelligent Defrosting Control

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





Lower Power Consumption Operation Mode

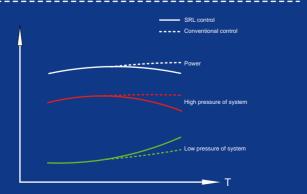
As for the area with power consumption limited time period, the maximum power consumption can be set for the operation. Basing on the power consumption of unit and user's requirement, power consumption limitation can be set according to 100%, 90% or 80% of the capacity of complete unit. In this case, user can have more selection at the power consumption limited time period.



Intelligent Power Consumption Limit

SRL (Self-reaction Load) Self-adaptive Control

SRL (Self-reaction Load) can intelligently detect and control system parameters and automatically adapt to indoor cold/heat load requirement for reducing unit's power and improving the energy efficiency.



Engineering Debugging for Convenient Construction

1) GMV5 CP has five auto debugging features:

- Automatic allocation of IDU and ODU addresses
- Automatic detection of IDU and ODU quantity
- Automatic detection of errors
- Automatic start-up of debugging
- Real-time judgment of pipe errors



2) Diversified debugging methods for satisfying different requirements and improving debugging efficiency:

- ①Button debugging of outdoor unit
- 2) Special GMV debugging system
- ③CE41-24/F(C) debugger has functions of debugging of complete unit, independent debugging of indoor unit, malfunction display, data record and so on. It's no need to connect special software and PC. Moreover, it can connect external USB storage data.



(1)



Three dual-8 nixie debugging status





Five-way Piping Connection

Piping and wiring are available to the front and back, left and right, and bottom.

The five-way piping connection reduces installation difficulty and cost, improving the installation efficiency.



No Need Wired Controller for Debugging

When the project is not completed, debugging can be conducted for the system without wired controller to prevent damage to the wired controller during construction process. After the project is finished, install the wired controller, which can prevent unnecessary loss.

ODU Combination Lineup

Model	GMV-224WWB1-X	GMV-280WWB1-X	GMV-335WWB1-X	GMV-400WWB1-X	GMV-450WWB1-X	GMV-504WWB1-X	GMV-560WWB1-X	GMV-615WWB1-X
GMV-224WWB1-X	•							
GMV-280WWB1-X		•						
GMV-335WWB1-X			•					
GMV-400WWB1-X				•				
GMV-450WWB1-X					•			
GMV-504WWB1-X						•		
GMV-560WWB1-X							•	
GMV-615WWB1-X								•
GMV-680WWB1-X		•		•				
GMV-730WWB1-X		•			•			
GMV-785WWB1-X		•				•		
GMV-850WWB1-X		•					•	
GMV-900WWB1-X		•						•
GMV-960WWB1-X			•					•
GMV-1010WWB1-X				•				•
GMV-1065WWB1-X					•			•
GMV-1130WM/B1-X						•		•
GMV-1180WM/B1-X							•	•
GMV-1235WWB1-X								••
GMV-1300WM/B1-X		•			•		•	
GMV-1350WWB1-X		•			•			•
GMV-1410WM/B1-X			•		•			•
GMV-1460WWB1-X		•					•	•
GMV-1515WWB1-X		•						• •
GMV-1580WWB1-X			•					• •
GMV-1630WWB1-X				•				• •
GMV-1685WM/B1-X					•			• •
GMV-1750WWB1-X						•		• •
GMV-1800WM/B1-X							•	• •
GMV-1845WM/B1-X								•••
GMV-1908WM/B1-X		•			•		•	•
GMV-1962WM/B1-X		•				•	•	•
GMV-2016WM/B1-X		•					• •	•
GMV-2072WWB1-X		•					•	• •
GMV-2128WM/B1-X		•						•••
GMV-2184WMB1-X			•					•••
GMV-2240WM/B1-X				•				•••
GMV-2295WM/B1-X					•			•••
GMV-2350WMB1-X						•		•••
GMV-2405WMB1-X							•	•••
GMV-2460WMB1-X								••••

GMV5 CP Lineup

HP	Model	Product
8HP	GMV-224WM/B1-X	
10HP	GMV-280WM/B1-X	li i
12HP	GMV-335WM/B1-X	NO.
14HP	GMV-400WM/B1-X	
16HP	GMV-450WM/B1-X	
18HP	GMV-504WM/B1-X	#160g
20HP	GMV-560WM/B1-X	
22HP	GMV-615WM/B1-X	No.

Specifications and Parameters

	Model		GMV-224WM/B1-X	GMV-280WM/B1-X	GMV-335WM/B1-X	GMV-400WM/B1-X
Capacity rang	je	HP	8	10	12	14
Capacity Cooling Heating		kW	22.4	28.0	33.5	40.0
		kW	25.0	31.5	37.5	45.0
EER		W/W	4.31	4.00	3.85	3.76
COP		W/W	4.55	4.32	4.84	4.05
Power supply		V/Ph/Hz		380V-415V 3	8N~ 50/60Hz	
Max. circuit/Fu	use current	А	15.7/20.0	20.9/25.0	22.5/32.0	28.8/40.0
Power	Cooling	kW	5.20	7.00	8.70	10.65
consumption	Heating	kW	5.50	7.30	7.75	11.10
Maximum driv	re IDU NO.	unit	13	16	19	23
Refrigerant cha	arge volume	kg	5.9	6.7	9.0	9.8
Sound pressu	ire level	dB(A)	60	61	61	63
	Liquid	mm	Ф9.52	Ф9.52	Ф12.7	Ф12.7
Connecting	Gas	mm	Ф19.05	Ф22.2	Ф25.4	Ф25.4
pipe	Oil balance	mm	Ф9.52	Ф9.52	Ф9.52	Ф9.52
Dimension	Outline	mm	930×765×1605	930×765×1605	930×765×1605	1340×765×1605
(WxDxH) Package		mm	1010×840×1775	1010×840×1775	1010×840×1775	1420×840×1775
Net weight/Gr	oss weight	kg	225/235	225/235	235/250	360/375
Loading	40' GP	set	24	24	24	16
quantity 40' HQ		set	24	24	24	16

	Model		GMV-450WM/B1-X	GMV-504WM/B1-X	GMV-560WM/B1-X	GMV-615WM/B1-X
Capacity range	Э	HP	16	18	20	22
D 16	Cooling		45.0	50.4	56.0	61.5
Capacity	Heating	kW	50.0	56.5	63.0	69.0
EER		W/W	3.56	3.55	3.50	3.32
COP		W/W	3.85	4.01	3.80	3.65
Power supply		V/Ph/Hz		380V-415V	3N~ 50/60Hz	
Max. circuit/Fu	use current	А	33.2/40.0	45.4/50.0	51.1/63.0	59.2/63.0
Power	Cooling	kW	12.65	14.20	16.00	18.50
consumption	Heating	kW	13.0	14.1	16.6	18.9
Maximum drive	e IDU NO.	unit	26	29	33	36
Refrigerant cha	arge volume	kg	10.3	11.3	14.3	14.3
Sound pressur	e level	dB(A)	63	63	63	64
	Liquid	mm	Ф12.7	Ф15.9	Ф15.9	Ф15.9
Connecting	Gas	mm	Ф28.6	Ф28.6	Ф28.6	Ф28.6
pipe	Oil balance	mm	Ф9.52	Ф9.52	Ф9.52	Ф9.52
Dimension	Outline	mm	1340×765×1605	1340×765×1740	1340×765×1740	1340×765×1740
W×D×H)	Package	mm	1420×840×1775	1420×840×1910	1420×840×1910	1420×840×1910
let weight/Gro	oss weight	kg	360/375	360/375	385/400	385/400
.oading	40' GP	set	16	16	16	16
quantity	40' HQ	set	16	16	16	16

▼ Specification of ODU Combination of GMV5 CP

Model	Power	Сара	acity	Power	input	Dimension(W×D×H)	Airflow volume	ESP		Operation sound pressure	Conr	necting p	oipe	Min. circuit current	Max. fuse current	Weight
iniode:	supply V/Ph/Hz	Cooling kW	Heating kW	Cooling kW	Heating kW	mm	m³/h	Pa	level dB(A)	level at night dB(A)	Liquid mm	Gas mm	Oil mm	A	A	kg
GMV-680WM/ B1-X	1777 10712	68.0	76.5	17.7	18.4	(930×765×1605) +(1340×765×1605)	11400+ 14000	82	65	43	Ф15.9	Ф28.6	Ф9.52	20.9+28.8	25 + 40	225+360
GMV-730WM/ B1-X		73.0	81.5	19.7	20.3	(930×765×1605) +(1340×765×1605)	11400+ 14000	82	65	43	Ф19.05	Ф31.8	Ф9.52	20.9+33.2	25 + 40	225+360
GMV-785WM/ B1-X		78.4	88.0	21.2	21.4	(930×765×1605) +(1340×765×1740)	11400+ 16000	82	66	43	Ф19.05	Ф31.8	Ф9.52	20.9+45.4	25 + 50	225+360
GMV-850WM/ B1-X		84.0	94.5	23.0	23.9	(930×765×1605) +(1340×765×1740)	11400+ 16000	82	67	43	Ф19.05	Ф31.8	Ф9.52	20.9+51.1	25 + 63	225+385
GMV-900WM/ B1-X		89.5	100.5	25.5	26.2	(930×765×1605) +(1340×765×1740)	11400+ 16000	82	67	43	Ф19.05	Ф31.8	Ф9.52	20.9+59.2	25 + 63	225+385
GMV-960WM/ B1-X		95.0	106.5	27.2	26.7	(930×765×1605) +(1340×765×1740)	11400 +16000	82	68	43	Ф19.05	Ф31.8	Ф9.52	22.5+59.2	32 + 63	235+385
GMV-1010WM/ B1-X		101.5	114.0	29.2	30.0	(1340×765×1605) +(1340×765×1740)	14000+ 16000	82	68	43	Ф19.05	Ф38.1	Ф9.52	28.8+59.2	40 + 63	360+385
GMV-1065WM/ B1-X		106.5	119.0	31.2	31.9	(1340×765×1605) +(1340×765×1740)	14000+ 16000	82	68	43	Ф19.05	Ф38.1	Ф9.52	33.2+59.2	40 + 63	360+385
GMV-1130WM/ B1-X		111.9	125.5	32.7	33.0	(1340×765×1740) ×2	16000×2	82	68	43	Ф19.05	Ф38.1	Ф9.52	45.4+59.2	50 + 63	360+385
GMV-1180WM/ B1-X		117.5	132.0	34.5	35.5	(1340×765×1740) ×2	16000×2	82	69	43	Ф19.05	Ф38.1	Ф9.52	51.1+59.2	63 + 63	385×2
GMV-1235WM/ B1-X		123.0	138.0	37.0	37.8	(1340×765×1740) ×2	16000×2	82	69	43	Ф19.05	Ф38.1	Ф9.52	59.2+59.2	63 + 63	385×2
GMV-1300WM/ B1-X		129.0	144.5	35.7	36.9	(930×765×1605)+(1340×76 5×1605)+(1340×765×1740)	11400+14000 +16000	82	69	45	Ф19.05	Ф38.1	Ф9.52	20.9+33.2+51.1	25 + 40 + 63	225+360 +385
GMV-1350WM/ B1-X		134.5	150.5	38.2	39.2	(930×765×1605)+(1340×76 5×1605)+(1340×765×1740)	11400+14000 +16000	82	69	45	Ф19.05	Ф38.1	Ф9.52	20.9+33.2+59.2	25 + 40 + 63	225+360 +385
GMV-1410WM/ B1-X		140.0	156.5	39.9	39.7	(930×765×1605)+(1340×76 5×1605)+(1340×765×1740)	11400+14000 +16000	82	69	45	Ф19.05	Ф41.3	Ф9.52	22.5+33.2+59.2	32 + 40 + 63	235+360 +385
GMV-1460WM/ B1-X		145.5	163.5	41.5	42.8	(930×765×1605) +(1340×765×1740) ×2	11400+ 16000×2	82	69	45	Ф19.05	Ф41.3	Ф9.52	20.9+51.1+59.2	25 + 63 + 63	225+385×2
GMV-1515WM/ B1-X	380V	151.0	169.5	44.0	45.1	(930×765×1605) +(1340×765×1740) ×2	11400+ 16000×2	82	70	45	Ф19.05	Ф41.3	Ф9.52	20.9+59.2+59.2	25 + 63 + 63	225+385×2
GMV-1580WM/ B1-X	415V 3N~	156.5	175.5	45.7	45.6	(930×765×1605) +(1340×765×1740) ×2	11400+ 16000×2	82	70	45	Ф19.05	Ф41.3	Ф9.52	22.5+59.2+59.2	32 + 63 + 63	235+385×2
GMV-1630WM/ B1-X	50 /60Hz	163.0	183.0	47.7	48.9	(1340×765×1605) +(1340×765×1740) ×2	14000+ 16000×2	82	70	45	Ф19.05	Ф41.3	Ф9.52	28.8+59.2+59.2	40 + 63 + 63	360+385×2
GMV-1685WM/ B1-X		168.0	188.0	49.7	50.8	(1340×765×1605) +(1340×765×1740) ×2	14000+ 16000×2	82	70	45	Ф19.05	Ф41.3	Ф9.52	33.2+59.2+59.2	40 + 63 + 63	360+385×2
GMV-1750WM/ B1-X		173.4	194.5	51.2	51.9	(1340×765×1740) ×3	16000×3	82	70	45	Ф19.05	Ф41.3	Ф9.52	45.4+59.2+59.2	50 + 63 + 63	360+385×2
GMV-1800WM/ B1-X		179.0	201.0	53.0	54.4	(1340×765×1740) ×3	16000×3	82	71	45	Ф19.05	Ф41.3	Ф9.52	51.1+59.2+59.2	63 + 63 + 63	385×3
GMV-1845WM/ B1-X		184.5	207.0	55.5	56.7	(1340×765×1740) ×3	16000×3	82	71	45	Ф19.05	Ф41.3	Ф9.52	59.2+59.2+59.2	63+63+63	385×3
GMV-1908WM/ B1-X		190.5	213.5	54.2	55.8	(930×765×1605)+(1340×765× 1605)+(1340×765×1740) ×2	11400+14000 +16000×2	82	72	47	Ф22.2	Ф44.5	Ф9.52	20.9+33.2+51.1+59.2	25+40+63+63	225+360 +385×2
GMV-1962WM/ B1-X		195.9	220.0	55.7	56.9	(930×765×1605) +(1340×765×1740) ×3	11400+ 16000x3	82	73	47	Ф22.2	Ф44.5	Ф9.52	20.9+45.4+51.1+59.2	25+50+63+63	225+360 +385×2
GMV-2016WM/ B1-X		201.5	226.5	57.5	59.4	(930×765×1605) +(1340×765×1740) ×3	11400+ 16000×3	82	73	47	Ф22.2	Ф44.5	Ф9.52	20.9+51.1+51.1+59.2	25+63+63+63	225+385×3
GMV-2072WM/ B1-X		207.0	232.5	60.0	61.7	(930×765×1605) +(1340×765×1740) ×3	11400+ 16000×3	82	73	47	Ф22.2	Ф44.5	Ф9.52	20.9+51.1+59.2+59.2	25+63+63+63	225+385×3
GMV-2128WM/ B1-X		212.5	238.5	62.5	64.0	(930×765×1605) +(1340×765×1740) ×3	11400+ 16000×3	82	73	47	Ф22.2	Ф44.5	Ф9.52	20.9+59.2+59.2+59.2	25+63+63+63	225+385×3
GMV-2184WM/ B1-X		218.0	244.5	64.2	64.5	(930×765×1605) +(1340×765×1740) ×3	11400+ 16000×3	82	74	47	Ф22.2	Ф44.5	Ф9.52	22.5+59.2+59.2+59.2	32+63+63+63	235+385×3
GMV-2240WM/ B1-X		224.5	252.0	66.2	67.8	(1340×765×1605) +(1340×765×1740) ×3	14000+ 16000×3	82	74	47	Ф22.2	Ф44.5	Ф9.52	28.8+59.2+59.2+59.2	40+63+63+63	360+385×3
GMV-2295WM/ B1-X		229.5	257.0	68.2	69.7	(1340×765×1605) +(1340×765×1740) ×3	14000+ 16000×3	82	74	47	Ф22.2	Ф44.5	Ф9.52	33.2+59.2+59.2+59.2	40+63+63+63	360+385×3
GMV-2350WM/ B1-X		234.9	263.5	69.7	70.8	(1340×765×1740) ×4	16000×4	82	75	47	Ф22.2	Ф44.5	Ф9.52	45.4+59.2+59.2+59.2	50+63+63+63	360+385×3
GMV-2405WM/ B1-X		240.5	270.0	71.5	73.3	(1340×765×1740) ×4	16000×4	82	75	47	Ф22.2	Ф44.5	Ф9.52	51.1+59.2+59.2+59.2	63+63+63+63	385×4
GMV-2460WM/ B1-X		246.0	276.0	74.0	75.6	(1340×765×1740) ×4	16000×4	82	75	47	Ф22.2	Ф44.5	Ф9.52	59.2+59.2+59.2+59.2	63+63+63+63	385×4



GMV5 MAX



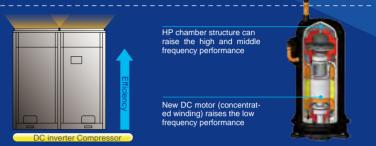
Key Features

DC Inverter Technology to Improve Compression Efficiency

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

DC Inverter Compressor

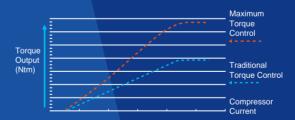
 High-performance high pressure chamber DC inverter compressor is adopted. High pressure chamber structure can directly reduce loss of overheat and improve compression efficiency, comparing with the compression efficiency of low pressure chamber.



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



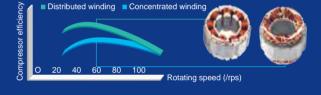
It can reduce energy loss caused by device winding so as to realize higher efficiency.



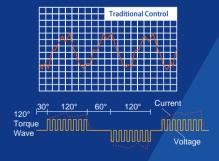
Low-frequency Torque Control

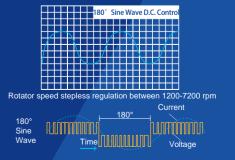
It can directly control motor torque, through which fan motor can run at a low speed. Users will feel more comfortable while requirements of the system are also met.





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.

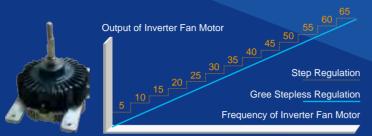




GMV5 🖊 💳 49/50

Sensorless DC Inverter Fan Motor

 Stepless speed regulation ranges from 5Hz to 65Hz.Compared with traditional inverter motors, the operation is more energy-saving.



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



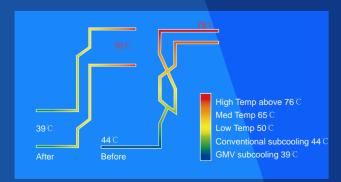
Wide Range of Operation Condition

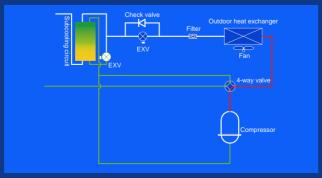
Outdoor operation temperature range is expanded to -5 C ~52 C in cooling and -20 C ~24 C in heating.



Sub-cooling Control Technology to Ensure Optimal Cooling and Heating

- Heat exchange loop can control the first subcooling process of heat exchanger.
 Subcooling degree can reach 11 °C.
- Subcooling loop can realize 9 °C second subcooling to guarantee cooling and heating performance.





High Efficiency and More Energy Saving

Thanks to the advanced DC inverter compressor and DC fan, optimized system design and accurate intelligent control technology. EER of GMV5 Max is up to 3.25 while COP is up to 3.82.





Energy-saving Operation Control Technology

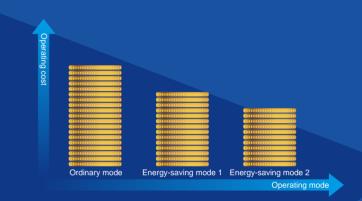
The GMV5 MAX system has 2 modes for energy saving, which can be chosen to meet different electricity demands.

Mode 1:

When unit is set in auto energy-saving mode, it will automatically adjust the parameters of control targets according to running status so as to achieve lower power consumption.

Mode 2:

When unit is set in compulsory energy-saving mode, it will limit system power output in a compulsory way.



G-type Heat Exchanger

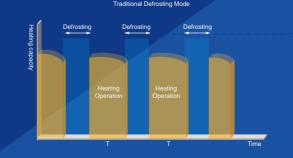
G-type heat exchanger fully utilizes the turning angle and vertical space to ensure sufficient heat exchange area. Stream heat exchange features high control precision and efficient heat exchange to guarantee satisfactory cooling and heating performance.

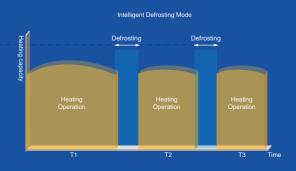




Intelligent Defrosting Control

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



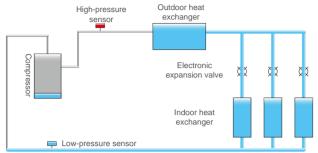


MV5 🚺 🤠 51/52

▼ Oil Return Control Technology

New Oil Return Control

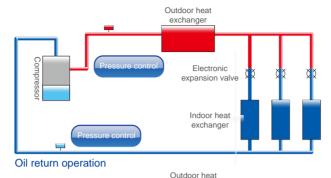
Gree new oil return control technology effectively controls system oil return and oil storage status of each compressor, which greatly improves the operation lifespan of compressor.

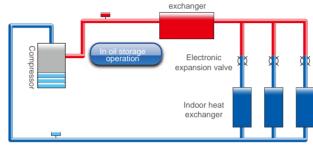


Oil storage status before oil return

Specialized Compressor Oil Storage Control

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

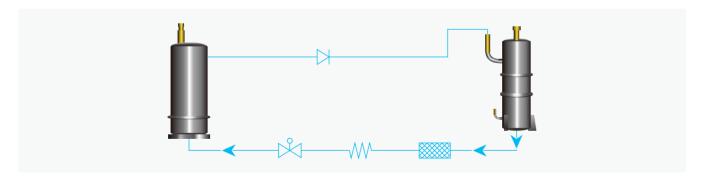




Oil storage operation

Oil Circuit Malfunction Detection for Real-time Judgment and Protection

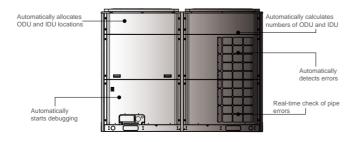
For GMV5 MAX, detection sensor is designed for the oil supply circuit of each compressor. This is to realize real-time judgment and detection for the oil supply circuit. When the compressor oil supply circuit is malfunctioning, shutdown protection will be enabled immediately to avoid further damage to the compressor. Maintenance cost for the system is reduced.



Engineering Debugging for Convenient Construction

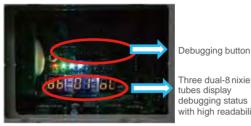
1) GMV5 MAX has five auto debugging features:

- Automatic allocation of IDU and ODU addresses
- Automatic detection of IDU and ODU quantity
- Automatic detection of errors
- Automatic start-up of debugging
- Real-time judgment of pipe errors



2) Diversified debugging methods for satisfying different requirements and improving debugging efficiency:

- ①Button debugging of outdoor unit
- 2 Special GMV debugging system
- ③CE41-24/F(C) debugger has functions of debugging of complete unit, independent debugging of indoor unit, malfunction display, data record and so on. It's no need to connect special software and PC. Moreover, it can connect external USB storage data.



 $\widehat{(1)}$

hree dual-8 nixie ubes display ebugging status ith high readability





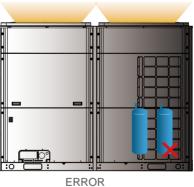
(2)

(3)

Excellent Emergency Operation Function to Ensure Reliable Operation

• 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

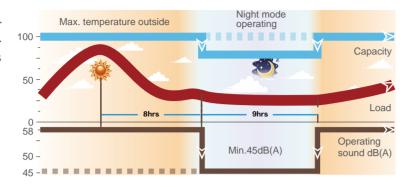
Double-fan design ensures that one fan can still work even if the other one has error.



Outdoor Unit Quiet Mode and Quiet Control

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.



• Quiet in Compulsion

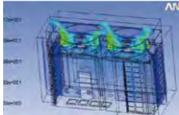
The system can also be set in this mode to ensure low noise as long as it is operating. Noise is as low as 45dB(A).



Quiet Control

1. Optimized Bossing Design
After many times of CFD tests, a new fan bossing structure has been developed to reduce vibration of fan during running. Noise can be reduced by 3dB(A).





2. Aerodynamics 3D Axial Fan Compared with conventional fan, it can increase air volume by 12%, improving efficiency as well as lowering noise.



GMV5 MAX Lineup

НР	Model	Product
28	GMV-785W/A-M	***
32	GMV-900W/A-M	

Specifications and Parameters

M	lodel		GMV-785W/A-M	GMV-900W/A-M	
Capacity range		HP	28	32	
0it	Cooling	kW	78.5	90.0	
Capacity	Heating	kW	87.5	100.0	
EER		W/W	3.22	3.25	
COP		W/W	3.74	3.82	
Power supply		V/Ph/Hz	380V-415V 3	N~ 50/60Hz	
Max. circuit/Fuse current		A	57.2/63.0	71.5/80.0	
D	Cooling	kW	24.4	27.7	
Power consumption	Heating	kW	23.4	26.2	
Maximum drive IDU NO.		unit	46	53	
Refrigerant charge volume		kg	18.9	24.0	
Sound pressure level		dB(A)	65	65	
Connecting nine	Liquid	mm	Ф19.05	Ф19.05	
Connecting pipe	Gas	mm	Ф31.8	Ф31.8	
Dimension	Outline	mm	2200×8	80×1675	
(WxDxH)	Package	mm	2267×9	52×1867	
Net weight/Gross weight		kg	557/592	600/635	
Looding guantity	40'GP	set	12	12	
Loading quantity	40'HQ	set	12	12	



GMV5 Heat Recovery

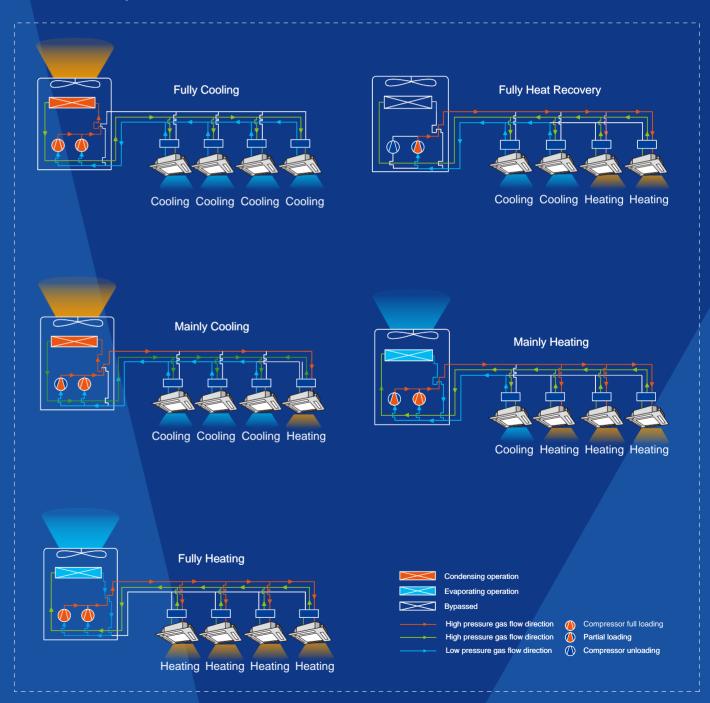


Key Features

High Efficiency

GMV5 Heat Recovery System embodies the excellent features of GMV5 (DC inverter technology, DC fan linkage control, precise control of capacity output, balancing control of refrigerant, original oil balancing technology with high pressure chamber, high-efficiency output control, low-temperature operation control technology, super heating technology, high adaptability for project, environmental refrigerant). Its energy efficiency is improved by 78% compared with conventional multi VRF.

• Five Efficient Operation Modes



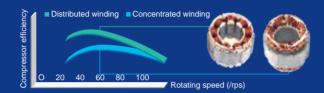
GMV5 7 57/58

All DC Inverter Technology to Improve Compression Efficiency

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



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



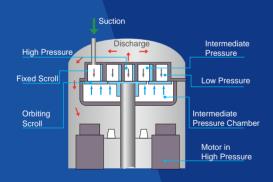
High Pressure Chamber Design

What's high pressure chamber?

The low-temperature and low-pressure refrigerant gas inhaled from the suction inlet of compressor will change to high-temperature and high-pressure gas after compression by scroll plate. Then the gas will go out from the exhaust at the center of fixed scroll and get into the lower chamber of compressor, so that the chamber of compressor is in high temperature and high pressure.

What's the benefits of high pressure chamber?

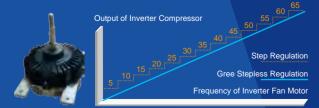
High pressure chamber compressor inhales directly to reduce overheat suction loss and improve compression efficiency.



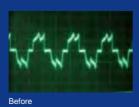


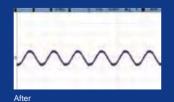
Sensorless DC Inverter Fan Motor

Stepless speed regulation ranges from 5Hz to 65Hz. Compared with traditional inverter motors, the operation is more energy-saving.



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





Wider Applicable Location

GMV5 can realize a combination of 4 outdoor unit modules connecting with as many as 80 indoor units. It's especially applicable for business buildings or hotels.



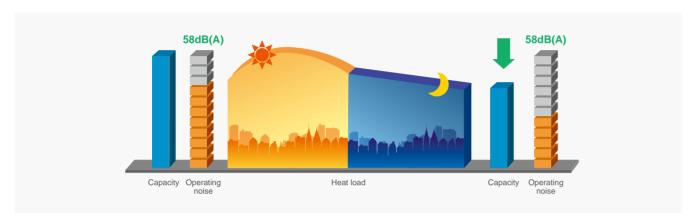
Max. IDU Connection: 80 sets

Comfortable Design for A Better Life

▼ Intelligent Quiet Function at Night

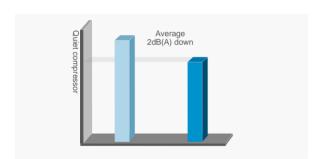
Quiet at Night

Intelligent adjustment of outdoor fan control can minimize the noise during night time. Up to 8dB(A) can be reduced and operation noise at night is as low as 50dB(A).



Low Noise Design

HP Chamber compressor has lower exhaust pressure fluctuation so that noise is lower.

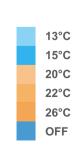


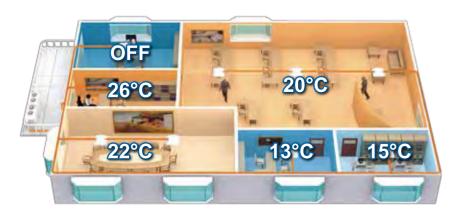
The optimized design of condensing fan blade reduces the air flow turbulence among blades, so that the noise is lower.



Individual Control for More Energy Saving

The set temperature of each room may vary by the individual thermostat control of each indoor unit. The cooling and heating operation can be performed at the same time.





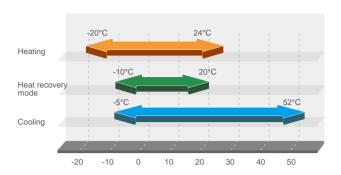
Wide Operation Range

The unit can operate in wide range, greatly reducing the ambient temperature limitation.

Note:

If the required capacity of indoor units is 50% higher than that of outdoor units, cooling range may be lower to -15°C.

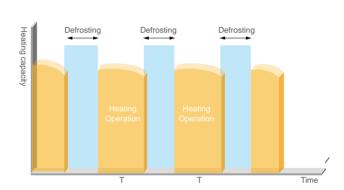
If the required capacity of indoor units is 50% higher than that of outdoor units, cooling range may be up to -5°C



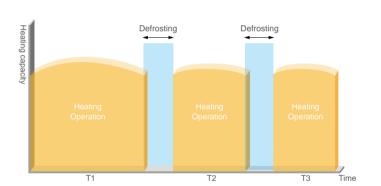
Intelligent Defrosting Control

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

Traditional Defrosting Mode



Intelligent Defrosting Mode



Excellent Performance Ensured by Advanced Technology

Modules Rotation Operating to Maximize Lifespan

Modules 8h Rotation Operating

The operating priority sequence of the outdoor unit modules will be changed without restart when the system accumulatively operates for 8 hours, which can maximize the service life of the system.



Excellent Emergency Operation Function to Ensure Reliable Operation

Emergency Function

The GMV5 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.



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.

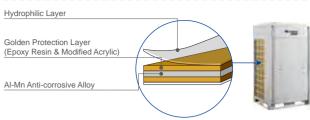






▼ Highly Anticorrosive Golden Fins

The primary material of golden fin is Al-Mn (Alumium-Manganese) anti-rust alloy, which is coated with the golden protection layer(components: epoxy resin&modified acrylic, sillcon free), the anti-corrosive performance in salt-spray testing is 200%~300% higher than normal blue fin*.

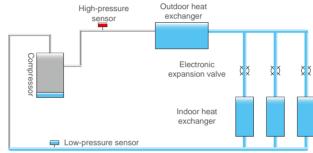


Note: Salt-spray testing result is from GREE materials chemistry testing laboratory

▼ Oil Return Control Technology

New Oil Return Control

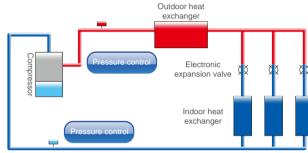
Gree new oil return control technology effectively controls system oil return and oil storage status of each compressor, which greatly improves the operation lifespan of compressor.



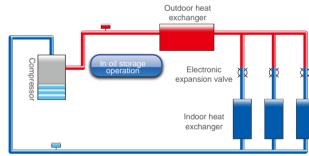
Oil storage status before oil return

• Specialized Compressor Oil Storage Control

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



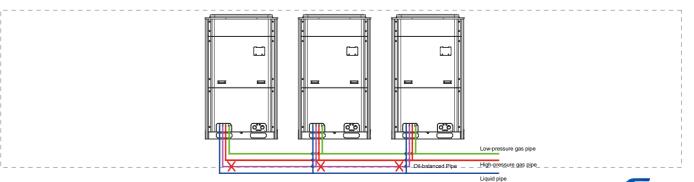
Oil return operation



Oil storage operation

Without External Oil-balanced Pipe Design

The unit is without external oil-balanced pipe design, reducing system pipeline connection and easy for engineering installation. The system will allocate lubricating oil of each module according to its demand, which is more intelligent, more efficient and more equal.





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Easy Installation and Maintenance

Compact Design

With compact design, the outdoor unit can be carried to the roof of building through elevator, with no need of crane. It is easier for delivery and installation.



Easy Transportation

Optimized Base Frame

Optimized base frame, the locating and fixing of the outdoor unit during installation is more convenient and reliable.



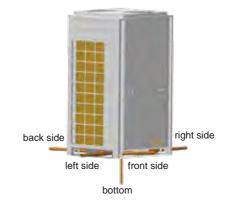
Transportable by Forklift



• Five-way Piping Connection

Piping and wiring are availiable to the front and back, left and right, and bottom.

The five-way piping connection reduces installation difficulty and cost, and improves the installation efficiency.



Easy Maintenance

• Inspection window is available for quick checking of system operation status. No need to open panel for checking, which will be more time-saving and easier for maintenance.



Error Display & Self-diagnostic Function
 Through LED display(different combinations of ON, OFF, or BLINK) on the main board, the malfunction can be judged.



GMV5 HR Lineup

▼ HR Lineup

ПР	Model	Durahust
HP	Model	Product
8HP	GMV-Q224WM/E-X	
10HP	GMV-Q280WM/E-X	
12HP	GMV-Q335WM/E-X	a come
14HP	GMV-Q400WM/E-X	
16HP	GMV-Q450WM/E-X	

Model	Product
NCHS1C	
NCHS2C	- 1m.
NCHS4C	- Indiana
NCHS8C	A manus

Specifications and Parameters



50/60Hz

Mod	lel			GMV-Q224WM/E-X	GMV-Q280WM/E-X	GMV-Q335WM/E-X	GMV-Q400WM/E-X	GMV-Q450WM/E-X		
Capacity range			HP	8	10	12	14	16		
Ocalian consite	Nom.		kW	22.4	28.0	33.5	40.0	45.0		
Cooling capacity	Nom.		kW	22.4	28.0	33.5	40.0	45.0		
Heating capacity	Max.		kW	25.0	31.5	37.5	45.0	50.0		
FFD	Nine	Ducted	kW/kW	4.09	3.44	4.04	3.36	3.04		
EER	Nom.	Cassette	kW/kW	3.10	2.53	2.47	2.52	2.64		
	Nissa	Ducted	kW/kW	4.75	4.32	4.87	4.50	3.94		
COP	Nom.	Cassette	kW/kW	3.37	3.48	3.46	3.07	2.79		
	Max.		kW/kW	4.75	4.32	4.87	4.50	3.94		
Davier consumption of cooling	Nom	Ducted	kW	5.48	8.14	8.29	11.90	14.80		
Power consumption of cooling	Nom.	Cassette	kW	7.23	11.07	13.56	15.87	17.05		
	Nom.	Ducted	kW	4.72	6.48	6.88	8.89	11.42		
Power consumption of heating	INOIII.	Cassette	kW	6.65	9.05	9.68	13.03	16.13		
	Max.		kW	5.26	7.29	7.70	10.00	12.69		
Power supply			V/Ph/Hz	380V-415V 3N~ 50/60Hz						
Max. circuit/Fuse current			А	16.3/20.0	20.9/25.0	24.7/32.0	28.8/40.0	33.2/40.0		
Maximum drive IDU NO.			unit	13 16 19 23		23	26			
Refrigerant charge volume			kg	6.2	7.1	9.6	11.1	11.6		
Sound pressure level(cooling)			dB(A)	60	61	63	63	63		
Sound power level(cooling)	Ducted		dB(A)	84	84	80	86	89		
Sound power level(cooling)	Cassett	е	dB(A)	84	85	86	87	91		
	Liquid		mm	Ф9.52	Ф9.52	Ф12.7	Ф12.7	Ф12.7		
Connecting pipe	High pre	essure gas	mm	Ф15.9	Ф19.05	Ф19.05	Ф22.2	Ф22.2		
	Low pre	ssure gas	mm	Ф19.05	Ф22.2	Ф25.4	Ф25.4	Ф28.6		
Outline		mm	930×765×1605	930×765×1605	1340×765×1605	1340×765×1605	1340×765×1605			
Dimension (W×D×H)	Package	е	mm	1010×840×1775	1010×840×1775	1420×840×1775	1420×840×1775	1420×840×1775		
Net weight/Gross weight			kg	233/243	233/243	302/317	346/361	346/361		
Loading quantity	40' GP		set	24	24	16	16	16		
Loading quantity	40' HQ		set	24	24	16	16	16		

50/60Hz

Model			NCHS1C	NCHS2C	NCHS4C	NCHS8C
Max. IDU branches		unit	1	2	4	8
No. of connectable IDU of each branch		unit	8	8	8	8
Total connectable IDU		unit	8	16	32	64
Max. capacity of each branch		kW	14.2	14.2	14.2	14.2
Max. capacity of connectable IDU		kW	14.2	28.0	45.0	68.0
Power supply		V/Ph/Hz	220V-240V ~ 50/60Hz			
Power consumption		W	8	28	44	80
Max. branch quantity of connecting IDU		unit	1	2	4	8
Outdoor unit piping connection	Liquid	mm	Ф9.52	Ф9.52	Ф12.7	Ф15.9
	Gas(Low pressure)	mm	Ф22.2		Ф28.6	
	Gas(High pressure)	mm	Ф15.9	Ф19.05	Ф22.2	Ф22.2
Indoor unit piping	Liquid	mm	Ф9.52	Ф9.52	Ф9.52	Ф9.52
connection	Gas	mm	Ф15.9	Ф15.9	Ф15.9	Ф15.9
Dimensions	Outline	mm	388×302×225	468×377×225	587×399×225	987×488×225
(WxDxH)	Package	mm	805×403×305	946×646×365	1123×676×345	1524×861×315
Net weight/Gross weight		kg	9.0/12.2	15.6/23.4	18.6/24.6	37.0/46.6

Note: GMV-Q**WM/E-X and NCHS*C are fixed match, which can't be matched with the outdoor units and mode exchangers of other types.



▼ ODU Combination Lineup-GMV5 HR*

Model	GMV-Q224WM/E-X	GMV-Q280WM/E-X	GMV-Q335WM/E-X	GMV-Q400WM/E-X	GMV-Q450WM/E-X
GMV-Q224WM/E-X	•				
GMV-Q280WM/E-X		•			
GMV-Q335WM/E-X			•		
GMV-Q400WM/E-X				•	
GMV-Q450WM/E-X					•
GMV-Q504WM/E-X	•	•			
GMV-Q560WM/E-X		••			
GMV-Q615WM/E-X		•	•		
GMV-Q680WM/E-X		•		•	
GMV-Q730WM/E-X		•			•
GMV-Q785WM/E-X			•		•
GMV-Q850WM/E-X				•	•
GMV-Q900WM/E-X					••
GMV-Q960WM/E-X		••		•	
GMV-Q1010WM/E-X		••			•
GMV-Q1065WM/E-X		•	•		•
GMV-Q1130WM/E-X		•		•	•
GMV-Q1180WM/E-X		•			••
GMV-Q1235WM/E-X			•		••
GMV-Q1300WM/E-X				•	••
GMV-Q1350WM/E-X					•••
GMV-Q1410WM/E-X		••		•	•
GMV-Q1460WM/E-X		••			••
GMV-Q1515WM/E-X		•	•		••
GMV-Q1580WM/E-X		•		•	••
GMV-Q1630WM/E-X		•			•••
GMV-Q1685WM/E-X			•		•••
GMV-Q1750WM/E-X				•	•••
GMV-Q1800WM/E-X					••••

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

▼ Specification of ODU Combination of GMV5 HR*1

	Capacity			Power input						Cor	nectino	g pipe				
Model	Power	Cooling	Hea	ating	Cooling	Hea	ating	Dimension (WxDxH)	Airflow volume	ESP	Liquid	Gas	Oil	Min. circuit current	Max. fuse current	Weight
	supply	Nom.*	Nom.*	Max	Nom.*	Nom.*	Max				<u> </u>		balance			
	V/Ph/Hz	kW	kW	kW	kW	kW	kW	mm	m³/h	Pa	mm	mm	mm	A	A	kg
GMV-Q504WM/E-X		50.4	50.4	56.5	13.62	11.20	12.55	(930×765×1605)×2	11400×2		Ф15.9	Ф25.4	Ф28.6	16.3+20.9	20+25	233+233
GMV-Q560WM/E-X		56.0	56.0	63.0	16.58	12.96	14.58	(930×765×1605)×2	11400×2		Ф15.9	Ф25.4	Ф28.6	20.9+20.9	25+25	233+233
GMV-Q615WM/E-X		61.5	61.5	69.0	16.43	13.36	14.99	(930×765×1605) +(1340×765×1605)	11400 +14000		Ф15.9	Ф25.4	Ф28.6	20.9+24.7	25+32	233+302
GMV-Q680WM/E-X		68.0	68.0	76.5	20.04	15.37	17.29	(930×765×1605) +(1340×765×1605)	11400 +14000		Ф15.9	Ф25.4	Ф28.6	20.9+28.8	25+40	233+346
GMV-Q730WM/E-X		73.0	73.0	81.5	22.94	17.90	19.98	(930×765×1605) +(1340×765×1605)	11400 +14000		Ф19.05	Ф28.6	Ф31.8	20.9+33.2	25+40	233+346
GMV-Q785WM/E-X		78.5	78.5	87.5	23.09	18.30	20.39	(1340×765×1605)×2	14000×2		Ф19.05	Ф28.6	Ф31.8	24.7+33.2	32+40	302+346
GMV-Q850WM/E-X		85.0	85.0	95.0	26.70	20.31	22.69	(1340×765×1605)×2	14000×2		Ф19.05	Ф28.6	Ф31.8	28.8+33.2	40+40	346+346
GMV-Q900WM/E-X		90.0	90.0	100.0	29.60	22.84	25.38	(1340×765×1605)×2	14000×2		Ф19.05	Ф28.6	Ф31.8	33.2+33.2	40+40	346+346
GMV-Q960WM/E-X		96.0	96.0	108.0	28.18	21.85	24.58	(930×765×1605)×2 +(1340×765×1605)	11400×2 +14000		Ф19.05	Ф28.6	Ф31.8	20.9+20.9+28.8	25+25+40	233+233+346
GMV-Q1010WM/E-X		101.0	101.0	113.0	31.08	24.38	27.27	(930×765×1605)×2 +(1340×765×1605)	11400×2 +14000		Ф19.05	Ф31.8	Ф38.1	20.9+20.9+33.2	25+25+40	233+233+346
GMV-Q1065WM/E-X	380V-	106.5	106.5	119.0	31.23	24.78	27.68	(930×765×1605) +(1340×765×1605)×2	11400 +14000×2		Ф19.05	Ф31.8	Ф38.1	20.9+24.7+33.2	25+32+40	233+302+346
GMV-Q1130WM/E-X	415V 3N	113.0	113.0	126.5	34.84	26.79	29.98	(930×765×1605) +(1340×765×1605)×2	11400 +14000×2	82	Ф19.05	Ф31.8	Ф38.1	20.9+28.8+33.2	25+40+40	233+346+346
GMV-Q1180WM/E-X	50/60 Hz	118.0	118.0	131.5	37.74	29.32	32.67	(930×765×1605) +(1340×765×1605)×2	11400 +14000×2	02	Ф19.05	Ф31.8	Ф38.1	20.9+33.2+33.2	25+40+40	233+346+346
GMV-Q1235WM/E-X	112	123.5	123.5	137.5	37.89	29.72	33.08	(1340×765×1605)×3	14000×3		Ф19.05	Ф31.8	Ф38.1	24.7+33.2+33.2	32+40+40	302+346+346
GMV-Q1300WM/E-X		130.0	130.0	145.0	41.50	31.73	35.38	(1340×765×1605)×3	14000×3		Ф19.05	Ф31.8	Ф38.1	28.8+33.2+33.2	40+40+40	346+346+346
GMV-Q1350WM/E-X		135.0	135.0	150.0	44.40	34.26	38.07	(1340×765×1605)×3	14000×3		Ф19.05	Ф31.8	Ф38.1	33.2+33.2+33.2	40+40+40	346+346+346
GMV-Q1410WM/E-X		141.0	141.0	158.0	42.98	33.27	37.27	(930×765×1605)×2 +(1340×765×1605)×2	11400×2 +14000×2		Ф19.05	Ф38.1	Ф41.3	20.9+20.9 +28.8+33.2	25+25 +40+40	233+233 +346+346
GMV-Q1460WM/ E-X		146.0	146.0	163.0	45.88	35.80	39.96	(930×765×1605)×2 +(1340×765×1605)×2	11400×2 +14000×2		Ф19.05	Ф38.1	Ф41.3	20.9+20.9 +33.2+33.2	25+25 +40+40	233+233 +346+346
GMV-Q1515WW/ E-X		151.5	151.5	169.0	46.03	36.20	40.37	(930×765×1605) +(1340×765×1605)×3	11400 +14000×3		Ф19.05	Ф38.1	Ф41.3	20.9+24.7 +33.2+33.2	25+32 +40+40	233+302 +346+346
GMV-Q1580WM/ E-X		158.0	158.0	176.5	49.64	38.21	42.67	(930×765×1605) +(1340×765×1605)×3	11400 +14000×3		Ф19.05	Ф38.1	Ф41.3	20.9+28.8 +33.2+33.2	25+40 +40+40	233+346 +346+346
GMV-Q1630WM/E-X		163.0	163.0	181.5	52.54	40.74	45.36	(930×765×1605) +(1340×765×1605)×3	11400 +14000×3		Ф19.05	Ф38.1	Ф41.3	20.9+33.2 +33.2+33.2	25+40 +40+40	233+346 +346+346
GMV-Q1685WM/E-X		168.5	168.5	187.5	52.69	41.14	45.77	(1340×765×1605)×4	14000×4		Ф19.05	Ф38.1	Ф41.3	24.7+33.2 +33.2+33.2	32+40 +40+40	302+346 +346+346
GMV-Q1750WM/E-X		175.0	175.0	195.0	56.30	43.15	48.07	(1340×765×1605)×4	14000×4		Ф19.05	Ф38.1	Ф41.3	28.8+33.2 +33.2+33.2	40+40 +40+40	346+346 +346+346
GMV-Q1800WM/E-X		180.0	180.0	200.0	59.20	45.68	50.76	(1340×765×1605)×4	14000×4		Ф19.05	Ф38.1	Ф41.3	33.2+33.2 +33.2+33.2	40+40 +40+40	346+346 +346+346



Note:
*1: The combination models of the outdoor units are not Eurovent certified.
*2: This is the power input that tested with duct type IDU.

GMV Water



GMV Water combines the features of water source system with DC Inverter Multi VRF Units. It inherits the energy efficiency of water-cooled system and the comfortable and flexible characteristics of VRF units, which will provide a new air conditioning solution for high buildings, villas, hotels, comprehensive halls, etc. GMV Water can be divided into two parts: water system that exchanges energy between outdoor units and water/ground source; VRF refrigerating system from outdoor units to indoor units.

Key Features

Utilization of Renewable Resources

The water source of GMV Water can be a cooling tower, boiler or renewable resources: surface water (river, lake and sea), ground water, soil, solar power, industrial waste heat or domestic waste water.

Regenerated Energy Resources



Lakes





Ground Water

Sea water

Main unit

Solar Power

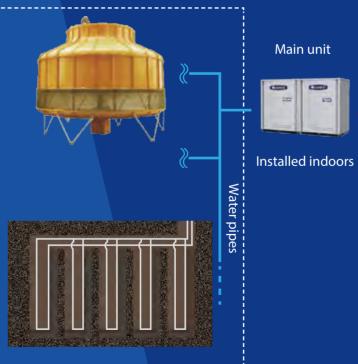
Refrigerant system

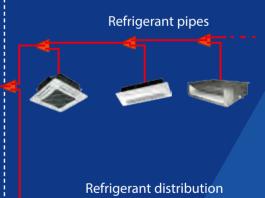
Industrial Waste Heat

Polluted Water and Waste Water

Water system

Earth





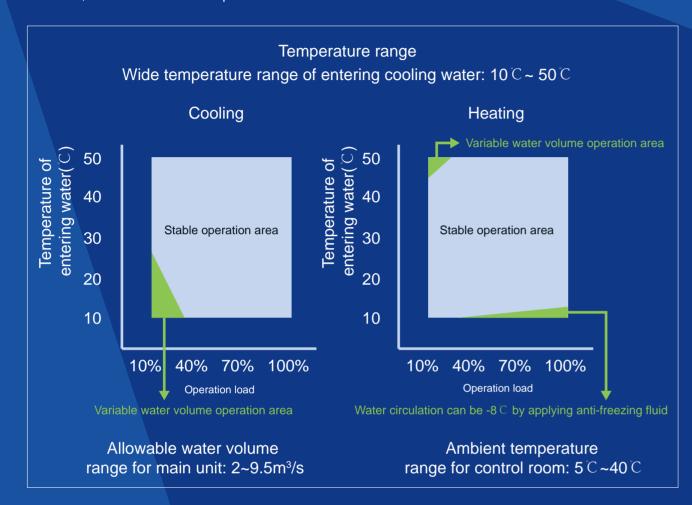


Same as multi VRF system

GMV5

Wide Operating Range

Wide range for water entering the water side heat exchanger: $10\sim50~\text{C}$; Water flow range of the main unit: $2\sim9.5\text{m}^3/\text{h}$, suitable in most of the places across the nation.

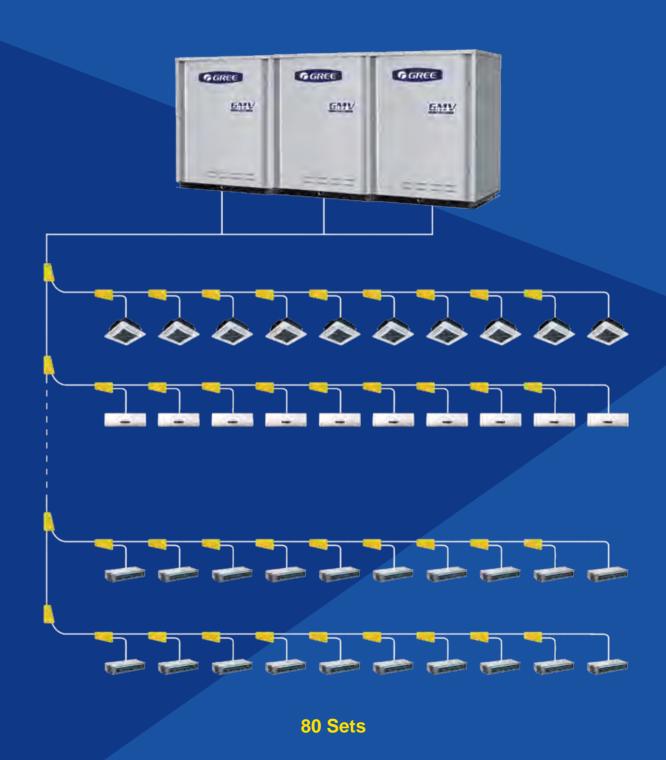


Large Capacity Design

• The combination of basic modules can have 4 modules at most, with maximum capacity of 134kW. The wide range of capacity can satisfy different construction demands.



Up to 80 indoor units can be connected.



Operating in Turns, for Longer Service Life

Each module starts up in sequence and operates in turn, which will effectively extend the units' service life.



Water-cooled System, No Need of Defrosting

The set temperature of each room may vary by the individual thermostat control of each indoor unit. The cooling and heating operation can be performed at the same time.



Air-cooled GMV



Completely New CAN Network Control

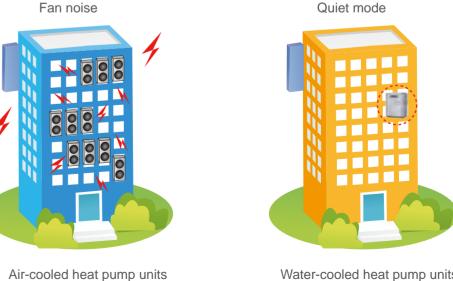
Same as GMV5, GMV Water adopts CAN communication, which has greatly improved the networking performance. It can be used in perfect combination with GMV5 indoor units.



- Independent control on a single unit: every indoor unit can have an independent controller to realize independent control and management.
- Multiple control points for a single unit: one indoor unit can be connected to multiple wired controllers, which will together control one indoor unit.
- Centralized control on multiple indoor units: multiple indoor units can be connected to one wired controller to realize centralized control. One wired controller can control up to 16 indoor units.
- Joint control by remote controller and wired controller: remote controller is convenient for use and wired controller is with complete functions. With Gree's unique control logic, user can use both remote controller and wired controller to control a same indoor unit.

Fully Closed Design, Low Noise

Gree GMV Water System has a totally enclosed design. Unlike traditional outdoor units, this system has low noise, which is especially suitable for places where quietness is needed.



Water-cooled heat pump units



No Weather Influence

GMV Water exchange heat with water source and ground source without regard to the weather influence. Especially in winter, when it is running in heat mode, the outdoor unit will not generate frost like the air-cooled outdoor unit. There's no need to run defrosting mode, thus ensuring reliable heating performance.











Stable operation under all kinds of weather

Compact Size, Easy for Transportation and Installation

 Products of this series are all compact in size, can be transported in common passenger elevators, which will help save transportation cost and the project time.



 Compared with air-cooled VRF units, GMV Water require less floor space and lower installation height and are lightweight. Units can be installed one on top of the other, which is efficient in space utilization.





No Impact on Construction Appearance

Air-cooled air conditioners must be installed outdoors so that they can exchange heat with the air. However, outdoor installation space is limited and for the sake of preserving the construction beauty, more and more outdoor units are placed indoors. In order to ensure normal operation, there must have large quantities of grilles. As for GMV Water, there's no need to exchange heat with the air, therefore, the installation position is very flexible and can be coordinated with the construction design, having no impact on the construction appearance.



Water-cooled VRF

Air-cooled VRF

▼ ODU Combination Lineup

380-415V,50/60Hz

Model	GMV-W224WM/A-X	GMV-W280WM/A-X	GMV-W335WWA-X
GMV-W448WMA-X	••		
GMV-W504WMA-X	•	•	
GMV-W560WMA-X		• •	
GMV-W615WWA-X		•	•
GMV-W670WMA-X			• •
GMV-W728WMA-X	••	•	
GMV-W784WMA-X	•	• •	
GMV-W840WMA-X		•••	
GMV-W895WMA-X		• •	•
GMV-W950WMA-X		•	• •
GMV-W1005WWA-X			•••
GMV-W1064WWA-X	•	•••	
GMV-W1120WWA-X		••••	
GMV-W1175WWA-X		•••	•
GMV-W1230WWA-X		• •	• •
GMV-W1285WWA-X		•	•••
GMV-W1340WWA-X			••••

208/230V,60Hz

Model	GMV-W224WM/A-F	GMV-W280WM/A-F	GMV-W335WM/A-F
GMV-W448WM/A-F	• •		
GMV-W504WM/A-F	•	•	
GMV-W560WM/A-F		• •	
GMV-W615WM/A-F		•	•
GMV-W670WM/A-F			• •
GMV-W728WM/A-F	• •	•	
GMV-W784WM/A-F	•	• •	
GMV-W840WM/A-F		•••	
GMV-W895WM/A-F		• •	•
GMV-W950WM/A-F		•	• •
GMV-W1005WM/A-F			•••
GMV-W1064WM/A-F	•	•••	
GMV-W1120WM/A-F		••••	
GMV-W1175WM/A-F		• • •	•
GMV-W1230WM/A-F		• •	• •
GMV-W1285WM/A-F		•	•••
GMV-W1340WM/A-F			•••

Outdoor Unit

380-415V, 50/60Hz

Mode	ı		GMV-W224WMA-X	GMV-W280WMA-X	GMV-W335WWA-X
Capacity	Cooling	kW	22.4	28.0	33.5
Сараспу	Heating	kW	25.0	31.5	37.5
Sound pressure level		dB(A)	50	52	52
Power supply		V/Ph/Hz		380V-415V 3N~ 50/60Hz	
Water flow volume		m³/h	4.8	6.0	7.2
water now withine		CFM	2.83	3.53	4.24
Water pressure drop		Кра	16	24	45
Rated power input	Cooling	kW	3.9	5.7	7.9
ixated power input	Heating	kW	4.00	5.40	7.35
Refrigerant connecting pipe	Gas	mm	Ф22.2	Ф22.2	Ф25.4
Kenigerani connecting pipe	Liquid	mm	Ф9.52	Ф9.52	Ф12.7
Water connecting pipe	Inlet	mm	DN32	DN32	DN32
vator confidenting pipe	Outlet	mm	DN32	DN32	DN32
Dimension/M/-D-II)	Outline	mm	780×550×1000	780×550×1000	780×550×1000
Dimension(WxDxH)	Package	mm	833×599×1160	833×599×1160	833×599×1160
Net weight/Gross weight		kg	162/175	162/175	162/175
Loading quantity	40' GP	set	108	108	108
Loading quantity	40' HQ	set	108	108	108

208/230V,60Hz

Model			GMV-W224WM/A-F	GMV-W280WM/A-F	GMV-W335WM/A-F
Capacity	Cooling	kW	22.4	28.0	33.5
Сараспу	Heating	kW	25.0	31.5	37.5
Sound pressure level		dB(A)	50	52	52
Power supply		V/Ph/Hz		208V/230V 3~ 60Hz	
Water flow volume		m³/h	4.8	6.0	7.2
Water now volume		CFM	2.83	3.53	4.24
Water pressure drop		Kpa	16	24	45
Rated power input	Cooling	kW	3.9	5.7	7.9
Rated power input	Heating	kW	4.00	5.40	7.35
Refrigerant connecting pipe	Gas	mm	Ф22.2	Ф22.2	Ф25.4
Reingerant connecting pipe	Liquid	mm	Ф9.52	Ф9.52	Ф12.7
Water connecting pipe	Inlet	mm	DN32	DN32	DN32
water connecting pipe	Outlet	mm	DN32	DN32	DN32
Dimension (M. D. II)	Outline	mm	780×550×1000	780×550×1000	780×550×1000
Dimension(WxDxH) Package		mm	833×599×1160	833×599×1160	833×599×1160
Net weight/Gross weight		kg	162/175	162/175	162/175
Loading quantity	40' GP	set	108	108	108
Loading quantity	40' HQ	set	108	108	108

▼ Specifications of ODU Combination

380-415V,50/60Hz

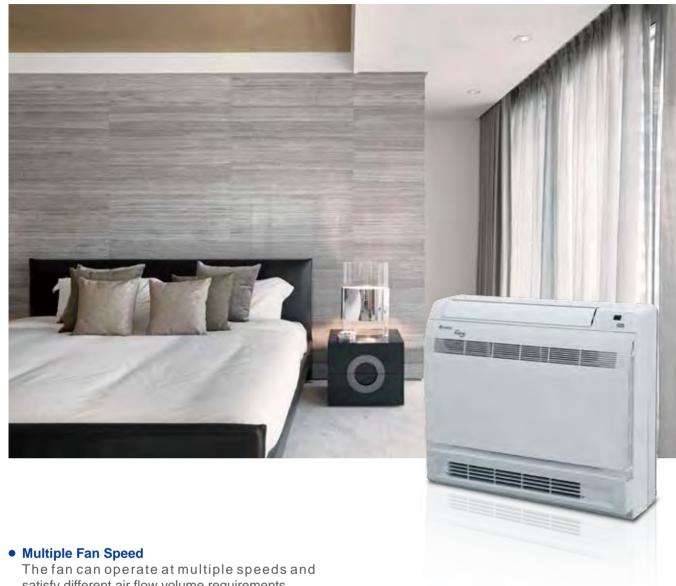
	Power	Сар	acity	Powe	er input	Dimension	Water flow	Sound	Connecti	ing pipe	Min. circuit	Max. fuse	Weight
Model	supply	Cooling	Heating	Cooling	Heating	(WxDxH)	volume	pressure level	Liquid	Gas	current	current	weight
	V/Ph/Hz	kW	kW	kW	kW	mm	m³/h	dB(A)	mm	mm	A	А	kg
GMV-W448WWA-X		44.8	50.0	3.9×2	4.0×2	(780×550×1000)×2	4.8×2	53	Ф12.7	Ф28.6	16.1×2	20×2	162×2
GMV-W504WWA-X		50.4	56.5	3.9+5.7	4.0+5.4	(780×550×1000)×2	4.8+6.0	54	Ф15.9	Ф28.6	16.1+19.7	20×2	162×2
GMV-W560WWA-X		56.0	63.0	7.9×2	5.4×2	(780×550×1000)×2	6.0×2	55	Ф15.9	Ф28.6	19.7×2	20×2	162×2
GMV-W615WWA-X		61.5	69.0	5.7+7.9	5.4+7.35	(780×550×1000)×2	6.0+7.2	55	Ф15.9	Ф28.6	19.7+26.8	20+32	162×2
GMV-W670WMA-X		67.0	75.0	7.9×2	7.35×2	(780×550×1000)×2	7.2×2	55	Ф15.9	Ф28.6	26.8×2	32×2	162×2
GMV-W728WWA-X		72.8	81.5	3.9×2+5.7	4.0×2+5.4	(780×550×1000)×3	4.8×2+6.0	56	Ф19.1	Ф31.8	16.1×2+19.7	20×3	162×3
GMV-W784WWA-X		78.4	88.0	3.9+5.7×2	4.0+5.4×2	(780×550×1000)×3	4.8+6.0×2	57	Ф19.1	Ф31.8	16.1+19.7×2	20×3	162×3
GMV-W840WWA-X	380V-415V	84.0	94.5	5.7×3	5.4×3	(780×550×1000)×3	6.0×3	57	Ф19.1	Ф31.8	19.7×3	20×3	162×3
GMV-W895WWA-X	3N~	89.5	100.5	5.7×2+7.9	5.4×2+7.35	(780×550×1000)×3	6.0×2+7.2	57	Ф19.1	Ф31.8	19.7×2+26.8	20×2+32	162×3
GMV-W950WMA-X	50/60Hz	95.0	106.5	5.7+7.9×2	5.4+7.35×2	(780×550×1000)×3	6.0+7.2×2	57	Ф19.1	Ф31.8	19.7+26.8×2	20+32×2	162×3
GMV-W1005WWA-X		100.5	112.5	7.9×3	7.35×3	(780×550×1000)×3	7.2×3	57	Ф19.1	Ф38.1	26.8×3	32×3	162×3
GMV-W1064WWA-X		106.4	119.5	3.9+5.7×3	4.0+5.4×3	(780×550×1000)×4	4.8+6.0×3	58	Ф19.1	Ф38.1	16.1+19.7×3	20×4	162×4
GMV-W1120WWA-X		112.0	126.0	5.7×4	5.4×4	(780×550×1000)×4	6.0×4	59	Ф19.1	Ф38.1	19.7×4	20×4	162×4
GMV-W1175WWA-X		117.5	132.0	5.7×3+7.9	5.4×3+7.35	(780×550×1000)×4	6.0×3+7.2	59	Ф19.1	Ф38.1	19.7×3+26.8	20×3+32	162×4
GMV-W1230WWA-X		123.0	138.0	5.7×2+7.9×3	5.4×2+7.35×2	(780×550×1000)×4	6.0×2+7.2×2	59	Ф19.1	Ф38.1	19.7×2+26.8×2	20×2+32×2	162×4
GMV-W1285WWA-X		128.5	144.0	5.7+7.9×3	5.4+7.35×3	(780×550×1000)×4	6.0+7.2×3	59	Ф19.1	Ф38.1	19.7+26.8×3	20+32×3	162×4
GMV-W1340WMA-X		134.0	150.0	7.9×4	7.35×4	(780×550×1000)×4	7.2×4	59	Ф19.1	Ф38.1	26.8×4	32×4	162×4

208/230V,60Hz

	Power	Cap	acity	Powe	er input	Dimension	Water	Sound	Connec	ting pipe			
Model	supply	Cooling	Heating	Cooling	Heating	(WxDxH)	flow volume	pressure level	Liquid	Gas	Min. circuit current	Max. fuse current	Weigh
	V/Ph/Hz	kW	kW	kW	kW	mm	m³/h	dB(A)	mm	mm	A	A	kg
GMV-W448WM/A-F		44.8	50.0	3.9×2	4.0×2	(780×550×1000)×2	4.8×2	53	Ф12.7	Ф28.6	32.3×2	50×2	162×2
GMV-W504WM/A-F		50.4	56.5	3.9+5.7	4.0+5.4	(780×550×1000)×2	4.8+6.0	54	Ф15.9	Ф28.6	32.3+34.2	50+60	162×2
GMV-W560WM/A-F		56.0	63.0	7.9×2	5.4×2	(780×550×1000)×2	6.0×2	55	Ф15.9	Ф28.6	34.2×2	60×2	162×2
GMV-W615WM/A-F		61.5	69.0	5.7+7.9	5.4+7.35	(780×550×1000)×2	6.0+7.2	55	Ф15.9	Ф28.6	34.2+45.1	60+80	162×2
GMV-W670WM/A-F		67.0	75.0	7.9×2	7.35×2	(780×550×1000)×2	7.2×2	55	Ф15.9	Ф28.6	45.1×2	80×2	162×2
GMV-W728WM/A-F		72.8	81.5	3.9×2+5.7	4.0×2+5.4	(780×550×1000)×3	4.8×2+6.0	56	Ф19.1	Ф31.8	32.3×2+34.2	50×2+60	162×3
GMV-W784WM/A-F		78.4	88.0	3.9+5.7×2	4.0+5.4×2	(780×550×1000)×3	4.8+6.0×2	57	Ф19.1	Ф31.8	32.3+34.2×2	50+60×2	162×3
GMV-W840WM/A-F	208V	84.0	94.5	5.7×3	5.4×3	(780×550×1000)×3	6.0×3	57	Ф19.1	Ф31.8	34.2×3	60×3	162×3
GMV-W895WM/A-F	/230V	89.5	100.5	5.7×2+7.9	5.4×2+7.35	(780×550×1000)×3	6.0×2+7.2	57	Ф19.1	Ф31.8	34.2×2+45.1	60×2+80	162×3
GMV-W950WM/A-F	3~ 60Hz	95.0	106.5	5.7+7.9×2	5.4+7.35×2	(780×550×1000)×3	6.0+7.2×2	57	Ф19.1	Ф31.8	34.2+45.1×2	60+80×2	162×3
GMV-W1005WM/A-F		100.5	112.5	7.9×3	7.35×3	(780×550×1000)×3	7.2×3	57	Ф19.1	Ф38.1	45.1×3	80×3	162×3
GMV-W1064WM/A-F		106.4	119.5	3.9+5.7×3	4.0+5.4×3	(780×550×1000)×4	4.8+6.0×3	58	Ф19.1	Ф38.1	32.3+34.2×3	50+60×3	162×4
GMV-W1120WM/A-F		112.0	126.0	5.7×4	5.4×4	(780×550×1000)×4	6.0×4	59	Ф19.1	Ф38.1	34.2×4	60×4	162×4
GMV-W1175WM/A-F		117.5	132.0	5.7×3+7.9	5.4×3+7.35	(780×550×1000)×4	6.0×3+7.2	59	Ф19.1	Ф38.1	34.2×3+45.1	60×3+80	162×4
GMV-W1230WM/A-F		123.0	138.0	5.7×2+7.9×2	5.4×2+7.35×2	(780×550×1000)×4	6.0×2+7.2×2	59	Ф19.1	Ф38.1	34.2×2+45.1×2	60×2+80×2	162×4
GMV-W1285WM/A-F		128.5	144.0	5.7+7.9×3	5.4+7.35×3	(780×550×1000)×4	6.0+7.2×3	59	Ф19.1	Ф38.1	34.2+45.1×3	60+80×3	162×4
GMV-W1340WM/A-F		134.0	150.0	7.9×4	7.35×4	(780×550×1000)×4	7.2×4	59	Ф19.1	Ф38.1	45.1×4	80×4	162×4



Console Indoor Unit



satisfy different air flow volume requirements.

• Detachable Grille and Long Life Filter
Grille is detachable for easy cleaning. With long life filter, cleaning cycle is 20 times longer.

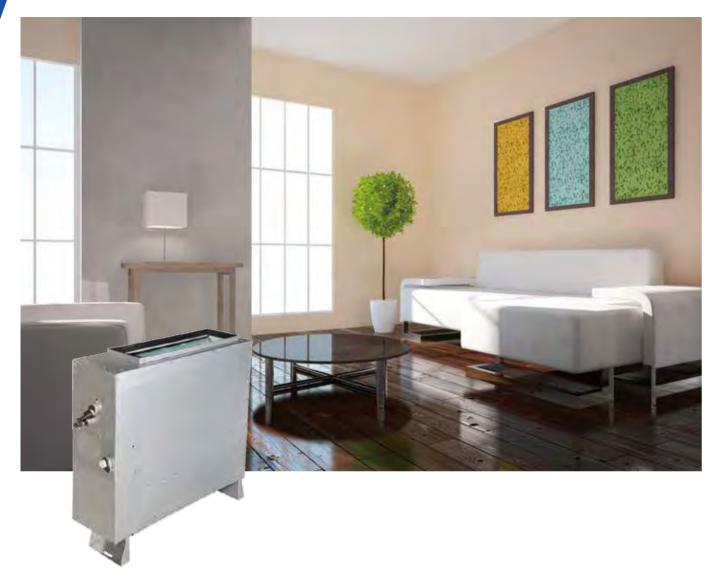
Floor Standing Indoor Unit



• Wide Application
It can be widely adopted in hotels, restaurants, offices, etc.

 Auto Clean to Ensure a Healthy Life
 After turning off the unit, the indoor fan will keep running at a low speed for a moment to dry the inner components and parts, in order to prevent mildew and keep user healthy.

Concealed Floor Standing Type



Capacity Range

Wide capacity range from 2.2kW to 7.1kW.

• DC Motor

DC motor is adopted, which is more efficient.

All units are only 200mm's thick, saving space while offering highly efficient performance.

• Easy Installation

High ESP allows installation with air ducts.

The low altitude design allows installation under a window. It is applicable for hotels, schools and

The three different height choices* of ex-factory supporter satisfy users' different installation needs.

*Note:This is an optional function. Please state specifically if you want to order.

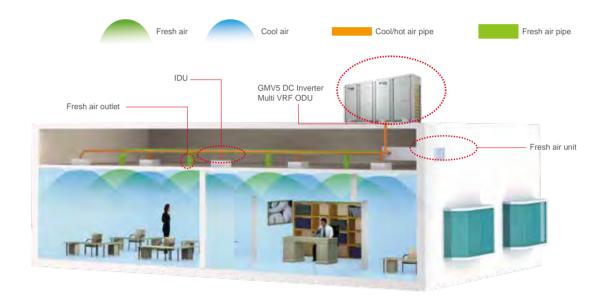
Fresh Air Processing Indoor Unit

Airflow volume: 1200~4000m3/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: 1200~4000m3/h, cooling capacity: 14-45kW Applicable for all kinds of structure.
- Direct evaporative cooling adopted, air conditioning+fresh air can be realized accurately.
- DC inverter technology adopted, constant humidity is enabled with less power consumption.
- 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 GMV5. For a same room, if the same amount of fresh air is to be taken, then the cost of GMV5+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.







V AHU KIT

- Multiple installation methods, convenient for engineering design.
- Independent design, convenient for installation.
- Wide capacity range, applicable to most occasions.
- Malfunction signal access, safe and reliable operation.
- VRF outdoor unit as the cold/heat source, no need of additional cold/heat source.
- Connected to variable refrigerant control system, with DC inverter control technology.
- Run together with VRF indoor units in the same system.



Indoor Units Lineup

▼ 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	224	250	280	450	560
High Static Pressure Duct Type Unit	1	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		•		
Low Static Pressure Duct Type Unit		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•						
Slim Ducted Type Indoor Unit		•	•	•	•	•	•	•	•	•	•	•												
4-way Cassette Unit				•		•		•	•	•	•	•	•	•	•	•	•	•	•					
360° Air Discharge Cassette Indoor Unit				•		•		•	•	•	•	•	•	•	•	•	•	•						
Compact 4-way Cassette Indoor Unit		•		•		•		•	•	•														
360° Air Discharge Compact Cassette Indoor Unit		•		•		•		•	•	•														
2-way Cassette Indoor Unit				•		•		•	•	•	•	•												
1-way Cassette Unit		•		•		•		•	•	•														
Wall- mounted Type Unit		•		•		•		•	•	•	•	•	•	•	•									
Floor Ceiling Type Indoor Unit				•		•			•	•	•	•		•		•	•	•	•					
Console Indoor Unit		•		•		•		•	•															
Floor Standing Type Indoor Unit	-														•			•						
Fresh Air Processing Indoor Unit																	•	•		•	•	•	•	
AHU KIT						•						•						•				•		•
Concealed Floor Standing Type		•		•		•		•		•	•	•												



▼ High Static Pressure Duct Type Indoor Unit

50/60 Hz

	Model		GMV-ND22PHS/B-T	GMV-ND25PHS/B-T	GMV-ND28PHS/B-T	GMV-ND32PHS/B-T	GMV-ND36PHS/B-T	GMV-ND40PHS/B-T
Consoit	Cooling	kW	2.2	2.5	2.8	3.2	3.6	4.0
Capacity	Heating	kW	2.5	2.8	3.2	3.6	4.0	4.5
Power supply		V/Ph/Hz			220V-240V ~ 50Hz 8	% 208V/230V ~ 60Hz		
Power consum	otion	W	55	55	55	65	65	85
Airflow volume	H/M/L)	m³/h	550/480/400	550/480/400	550/480/400	600/500/420	600/500/420	850/700/600
	Cooling	Α	0.5	0.5	0.5	0.5	0.5	0.5
Rated current	Heating	Α	0.5	0.5	0.5	0.5	0.5	0.5
	Water heating	Α	/	/	/	/	/	/
ESP		Pa	60/0~150	60/0~150	60/0~150	60/0~150	60/0~150	60/0~150
Sound pressure	e level(H/M/L)	dB(A)	33/30/28	33/30/28	33/30/28	33/31/29	33/31/29	36/34/32
Connecting pipe	Liquid	mm	Ф6.35	Ф6.35	Ф6.35	Ф6.35	Ф6.35	Ф6.35
Cornicoting pipe	Gas	mm	Ф9.52	Ф9.52	Ф9.52	Ф12.7	Ф12.7	Ф12.7
Drain pipe	External dia.	mm	Ф25	Ф25	Ф25	Ф25	Ф25	Ф25
Dialii pipe	Thickness	mm	2.5	2.5	2.5	2.5	2.5	2.5
Dimension	Outline	mm	700×700×300	700×700×300	700×700×300	700×700×300	700×700×300	700×700×300
(WxDxH)	Package	mm	897×808×360	897×808×360	897×808×360	897×808×360	897×808×360	897×808×360
Net weight/Gro	ss weight	kg	32/38	32/38	32/38	32/38	32/38	34/40
Loading	40' GP	set	168	168	168	168	168	168
quantity	40' HQ	set	196	196	196	196	196	196

	Model		GMV-ND45PHS/B-T	GMV-ND50PHS/B-T	GMV-ND56PHS/B-T	GMV-ND63PHS/B-T	GMV-ND71PHS/B-T	GMV-ND80PHS/B-T
0	Cooling	kW	4.5	5.0	5.6	6.3	7.0	8.0
Capacity	Heating	kW	5.0	5.6	6.3	7.1	8.0	9.0
Power supply		V/Ph/Hz			220V-240V ~ 50Hz 8	% 208V/230V ~ 60Hz		
Power consum	ption	W	85	85	90	90	100	100
Airflow volume	(H/M/L)	m³/h	850/700/600	850/700/600	1000/800/700	1000/800/700	1250/1050/950	1250/1050/950
	Cooling	А	0.5	0.5	0.8	0.8	0.8	0.8
Rated current	Heating	А	0.5	0.5	0.8	0.8	0.8	0.8
	Water heating	А	/	/	/	/	/	/
ESP		Pa	60/0~150	60/0~150	90/0~200	90/0~200	90/0~200	90/0~200
Sound pressur	e level(H/M/L)	dB(A)	36/34/32	36/34/32	37/35/33	37/35/33	38/36/34	38/36/34
Connecting pipe	Liquid	mm	Ф6.35	Ф6.35	Ф9.52	Ф9.52	Ф9.52	Ф9.52
Corniccurig pipe	Gas	mm	Ф12.7	Ф12.7	Ф15.9	Ф15.9	Ф15.9	Ф15.9
Drain pipe	External dia.	mm	Ф25	Ф25	Ф25	Ф25	Ф25	Ф25
Diam pipo	Thickness	mm	2.5	2.5	2.5	2.5	2.5	2.5
Dimension	Outline	mm	700×700×300	700×700×300	1000×700×300	1000×700×300	1000×700×300	1000×700×300
(W×D×H)	Package	mm	897×808×360	897×808×360	1205×813×360	1205×813×360	1205×813×360	1205×813×360
Net weight/Gro	ss weight	kg	34/40	34/40	43/49	43/49	43/49	43/49
Loading	40' GP	set	168	168	138	138	138	138
quantity	40' HQ	set	196	196	161	161	161	161

	Model		GMV-ND90 PHS/B-T	GMV-ND100 PHS/B-T	GMV-ND112 PHS/B-T	GMV-ND125 PHS/B-T	GMV-ND140 PHS/B-T	GMV-ND160 PHS/B-T	GMV-ND224 PH/A-T	GMV-ND280 PH/A-T
Canacity	Cooling	kW	9.0	10.0	11.2	12.5	14.0	16.0	22.4	28.0
Capacity	Heating	kW	10.0	11.2	12.5	14.0	16.0	18.0	25.0	31.0
Power supply		V/Ph/Hz			2	20V-240V ~ 50Hz 8	3 208V/230V ~ 60H	łz		
Power consum	ption	W	140	140	160	160	220	230	800	900
Airflow volume	(H/M/L)	m³/h	1800/1450/1250	1800/1450/1250	2000/1600/1400	2000/1600/1400	2350/1900/1650	2500/2000/1750	4000/3600/3200	4400/4000/3600
	Cooling	А	1.1	1.1	1.1	1.1	2.0	2.0	3.7	4.1
Rated current	Heating	А	1.1	1.1	1.1	1.1	2.0	2.0	3.7	4.1
	Water heating	А	/	/	/	/	/	/	/	/
ESP	•	Pa	90/0~200	90/0~200	90/0~200	90/0~200	90/0~200	90/0~200	100/50~200	100/50~200
Sound pressur	e level(H/M/L)	dB(A)	40/37/35	40/37/35	40/38/36	40/38/36	42/39/37	44/41/38	54/52/49	55/52/50
Connecting pipe	Liquid	mm	Ф9.52	Ф9.52	Ф9.52	Ф9.52	Ф9.52	Ф9.52	Ф9.52	Ф9.52
Connecting pipe	Gas	mm	Ф15.9	Ф15.9	Ф15.9	Ф15.9	Ф15.9	Ф19.05	Ф19.05	Ф22.2
Drain pipe	External dia.	mm	Ф25	Ф25	Ф25	Ф25	Ф25	Ф25	Ф25	Ф25
Diairi pipe	Thickness	mm	2.5	2.5	2.5	2.5	2.5	2.5	2.0	2.0
Dimension	Outline	mm	1400×700×300	1400×700×300	1400×700×300	1400×700×300	1400×700×300	1400×700×300	1483×791×385	1686×870×450
(W×D×H)	Package	mm	1601×813×365	1601×813×365	1601×813×365	1601×813×365	1678×808×365	1678×808×365	1578×883×472	1788×988×580
Net weight/Gro	ss weight	kg	57/64	57/64	57/64	57/64	58/67	58/67	82/104	105/140
Loading	40' GP	set	84	84	84	84	84	84	52	52
quantity	40' HQ	set	98	98	98	98	98	98	65	52

▼ Low Static Pressure Duct Type Indoor Unit

50/60 Hz

	Model		GMV-ND22PLS/B1-T	GMV-ND25PLS/B1-T	GMV-ND28PLS/B1-T	GMV-ND32PLS/B1-T	GMV-ND36PLS/B1-T	
Canacity	Cooling	kW	2.2	2.5	2.8	3.2	3.6	
Capacity	Heating	kW	2.5	2.8	3.2	3.6	4.0	
Power supply		V/Ph/Hz	220V-240V ~ 50Hz & 208V/230V ~ 60Hz					
Power consumpt	ion	W	65	65	65	65	65	
Airflow volume(H	(N.4.0)	m³/h	610/437/350	610/437/350	610/437/350	650/629/449	650/629/449	
Arrilow volume(n	IVVL)	CFM	359/257/206	359/257/206 359/257/206		383/370/264	383/370/264	
	Cooling	А	0.32	0.32	0.32	0.32	0.32	
Rated current	Heating	Α	0.32	0.32	0.32	0.32	0.32	
	Water heating	А	/	/	/	/	/	
ESP		Pa			30/0~50			
Sound pressure	evel(H/M/L)	dB(A)	38/36/30	38/36/30	38/36/30	38/36/30	38/36/30	
Connecting pipe	Liquid	mm	Ф6.35	Ф6.35	Ф6.35	Ф6.35	Ф6.35	
Connecting pipe	Gas	mm	Ф9.52	Ф9.52	Ф9.52	Ф12.7	Ф12.7	
Dii	External dia.	mm	Ф25	Ф25	Ф25	Ф25	Ф25	
Drain pipe	Thickness	mm	2.5	2.5	2.5	2.5	2.5	
Dimension	Outline	mm			710×450×200			
0M D 11)		mm			1003×551×285			
Net weight/Gross weight		kg	19.0/23.0	19.0/23.0	19.0/23.0	20.0/23.5	20.0/23.5	
40'GP		set	352	352	352	352	352	
Loading quantity	40'HQ	set	352	352	352	352	352	

	Model		GMV-ND40PLS/B1-T	GMV-ND45PLS/B1-T	GMV-ND50PLS/B1-T	GMV-ND56PLS/B1-T	GMV-ND63PLS/B1-T			
Canacity	Cooling	kW	4.0	4.5	5.0	5.6	6.3			
Capacity	Heating	kW	4.5	5.0	5.6	6.3	7.0			
Power supply		V/Ph/Hz	220V-240V ~ 50Hz & 208V/230V ~ 60Hz							
Power consumpt	ion	W	65	65	65	65	65			
Airflow volume(H	/h 4/l \	m³/h	810/743/659	810/743/659	810/736/690	810/736/690	810/736/690			
Amiow volume(n.	IVVL)	CFM	477/437/388	88 477/437/388 477/433/406		477/433/406	477/433/406			
	Cooling	А	0.32	0.32	0.32	0.32	0.32			
Rated current	Heating	А	0.32	0.32	0.32	0.32	0.32			
	Water heating	А	/	/	/	/	/			
ESP		Pa	30/0~50							
Sound pressure	level(H/M/L)	dB(A)	37/35/33	37/35/33	37/35/31	37/35/31	37/35/31			
Connecting pipe	Liquid	mm	Ф6.35	Ф6.35	Ф6.35	Ф9.52	Ф9.52			
Connecting pipe	Gas	mm	Ф12.7	Ф12.7	Ф12.7	Ф15.9	Ф15.9			
Drain pipe	External dia.	mm	Ф25	Ф25	Ф25	Ф25	Ф25			
Diaili pipe	Thickness	mm	2.5	2.5	2.5	2.5	2.5			
Dimension	Outline	mm			1010×450×200					
(WxDxH) Package		mm			1303×551×285					
Net weight/Gross	weight	kg	24.0/29.0	24.0/29.0	25.0/30.5	25.0/30.5	25.0/30.5			
Looding quarte	40'GP	set	288	288	288	288	288			
oading guantity	40'HQ	set	288	288	288	288	288			

	Model		GMV-ND71PLS/B1-T	GMV-ND80PLS/A-T	GMV-ND90PLS/A-T	GMV-ND100PLS/A-T	GMV-ND112PLS/A-T	GMV-ND125PLS/A-T	GMV-ND140PLS/A-1		
0	Cooling	kW	7.1	8.0	9.0	10.0	11.2	12.5	14.0		
Capacity	Heating	kW	8.0	9.0	10.0	11.2	12.5	14.0	16.0		
Power supply		V/Ph/Hz			220V-240	V ~ 50Hz & 208V/230	V ~ 60Hz				
Power consum	ption	W	70	140	209	209	209	230	230		
Airflow volume	(11/84/1)	m³/h	1210/919/754	1100/1000/800	1500/1250/950	1500/1350/1000	1700/1500/1100	2000/1500/1150	2000/1500/1150		
Alfilow volume	(II/IVI/L)	CFM	712/541/444	650/590/471	885/736/599	885/795/590	1000/885/650	1175/885/677	1175/885/677		
	Cooling	Α	0.34	0.7	1.0	1.0	1.0	1.1	1.1		
Rated current	Heating	Α	0.34	0.7	1.0	1.0	1.0	1.1	1.1		
	Water heating		/	/	/	/	/	/	/		
ESP		Pa				30/	0~50				
Sound pressur	e level(H/M/L)	dB(A)	39/37/35	36/34/31	40/36/32	40/36/32	40/36/32	42/40/37	42/40/37		
Connecting pipe	Liquid	mm	Ф9.52	Ф9.52	Ф9.52	Ф9.52	Ф9.52	Ф9.52	Ф9.52		
Corniccing pipi	Gas	mm	Ф15.9	Ф15.9	Ф15.9	Ф15.9	Ф15.9	Ф15.9	Ф15.9		
Drain pipe	External dia.	mm	Ф25	Ф25	Ф25	Ф25	Ф25	Ф25	Ф25		
Diairi pipe	Thickness	mm	2.5	2.5	2.5	2.5	2.5	2.5	2.5		
Dimension	Outline	mm	1310×450×200	1200×655×260			1340×65	55×260			
(WxDxH)	Package	mm	1603×551×285	1448×858×315			1588×85	58×315			
Net weight/Gro	ss weight	kg	30.5/37.0	40.0/47.0	46.0/55.0	46.0/55.0	46.0/55.0	47.0/56.0	47.0/56.0		
Loading	40' GP	set	224	147	98	98	98	98	98		
quantity	40' HQ	set	224	168	112	112	112	112	112		



▼ Slim Ducted Type Indoor Unit

50/60 Hz

	Model		GMV-ND22PLS/C-T	GMV-ND25PLS/C-T	GMV-ND28PLS/C-T	GMV-ND32PLS/C-T	GMV-ND36PLS/C-T			
0	Cooling	kW	2.2	2.5	2.8	3.2	3.6			
Capacity	Heating	kW	2.5	2.8	3.2	3.6	4.0			
Power supply		V/Ph/Hz	220V-240V ~ 50Hz & 208V/230V ~ 60Hz							
Power consump	otion	W	28	28	28	37	37			
Airflow volume	(H/M/L)	m³/h	450/350/200	450/350/200	450/350/200	550/400/300	550/400/300			
Data damana	Cooling	А	0.2	0.2	0.2	0.3	0.3			
Rated current	Heating	А	0.2	0.2	0.2	0.3	0.3			
ESP		Pa	15/0~30	15/0~30	15/0~30	15/0~30	15/0~30			
Sound pressure	e level(H/M/L)	dB(A)	30/25/22	30/25/22	30/25/22	31/27/25	31/27/25			
Connecting	Liquid	mm	Ф6.35	Ф6.35	Ф6.35	Ф6.35	Ф6.35			
pipe	Gas	mm	Ф9.52	Ф9.52	Ф9.52	Ф12.7	Ф12.7			
Danie ain a	External dia.	mm	Ф25	Ф25	Ф25	Ф25	Ф25			
Drain pipe	Thickness	mm	2.5	2.5	2.5	2.5	2.5			
Dimension	Outline	mm	710×462×200	710×462×200	710×462×200	710×462×200	710×462×200			
(WxDxH)	Package	mm	1008×568×275	1008×568×275	1008×568×275	1008×568×275	1008×568×275			
Net weight/Gros	Net weight/Gross weight kg		18.5/23.5	18.5/23.5	18.5/23.5	19.0/24.0	19.0/24.0			
Loading	40'GP	set	386	386	386	386	386			
quantity	40'HQ	set	430	430	430	430	430			

	Model		GMV-ND40PLS/C-T	GMV-ND45PLS/C-T	GMV-ND50PLS/C-T	GMV-ND56PLS/C-T	GMV-ND63PLS/C-T	GMV-ND71PLS/C-T
0	Cooling	kW	4.0	4.5	5.0	5.6	6.3	7.1
Capacity	Heating	kW	4.5	5.0	5.6	6.3	7.1	8.0
Power supply		V/Ph/Hz			220V-240V ~ 50Hz 8	3 208V/230V ~ 60Hz		
Power consum	ption	W	40	40	55	55	55	55
Airflow volume	(H/M/L)	m³/h	750/550/400	750/550/440	850/700/550	850/700/550	850/700/550	1100/850/650
Data da	Cooling	А	0.3	0.3	0.4	0.4	0.4	0.5
Rated current	Heating	А	0.3	0.3	0.4	0.4	0.4	0.5
ESP		Pa	15/0~30	15/0~30	15/0~30	15/0~30	15/0~30	15/0~50
Sound pressure	e level(H/M/L)	dB(A)	33/29/27	33/29/27	35/31/29	35/31/29	35/31/29	37/32/30
Connecting	Liquid	mm	Ф6.35	Ф6.35	Ф6.35	Ф9.52	Ф9.52	Ф9.52
pipe	Gas	mm	Ф12.7	Ф12.7	Ф12.7	Ф15.9	Ф15.9	Ф15.9
	External dia.	mm	Ф25	Ф25	Ф25	Ф25	Ф25	Ф25
Drain pipe	Thickness	mm	2.5	2.5	2.5	2.5	2.5	2.5
Dimension	Outline	mm	1010×462×200	1010×462×200	1010×462×200	1010×462×200	1010×462×200	1310×462×200
(W×D×H)	Package	mm	1308×568×275	1308×568×275	1308×568×275	1308×568×275	1308×568×275	1608×568×275
Net weight/Gross weight		kg	25.0/31.0	25.0/31.0	25.0/31.0	25.0/31.0	25.0/31.0	31.0/37.5
Loading	40'GP	set	288	288	288	288	288	229
quantity	40'HQ	set	340	340	340	340	340	257

4-way Cassette Indoor Unit 50/60 Hz

	N	Model		GMV-ND28T/A-T	GMV-ND36T/A-T	GMV-ND45T/A-T	GMV-ND50T/A-T	GMV-ND56T/A-T	GMV-ND63T/A-T	GMV-ND71T/A-T	
Capacity		Cooling	kW	2.8	3.6	4.5	5.0	5.6	6.3	7.1	
Сарасну		Heating	kW	3.2	4.0	5.0	5.6	6.3	7.1	8.0	
Power sup	ply		V/Ph/Hz		220V-240V ~ 50Hz & 208V/230V ~ 60Hz						
Power consumption		W	48	48	48	50	59	59	68		
Airflow volume(H/M/L)		m³/h	750/650/550	750/650/550	750/650/550	830/650/550	1000/900/750	1000/900/750	1180/950/850		
Cooling		Α	0.2	0.2	0.2	0.2	0.3	0.3	0.3		
Rated current Heating		Α	0.2	0.2	0.2	0.2	0.3	0.3	0.3		
Water heating		Α	/	/	/	/	/	/	/		
Sound pres	ssure level(H/N	И/L)	dB(A)	36/34/31	36/34/31	36/34/31	36/34/31	37/35/32	37/35/32	38/36/33	
Connecting	nino	Liquid	mm	Ф6.35	Ф6.35	Ф6.35	Ф6.35	Ф9.52	Ф9.52	Ф9.52	
Corniecting) pipe	Gas	mm	Ф9.52	Ф12.7	Ф12.7	Ф12.7	Ф15.9	Ф15.9	Ф15.9	
Drain pipe		External dia.	mm	Ф25	Ф25	Ф25	Ф25	Ф25	Ф25	Ф25	
Dialit pipe		Thickness	mm	2.5	2.5	2.5	2.5	2.5	2.5	2.5	
	Dimension	Outline	mm	840×840×190	840×840×190	840×840×190	840×840×190	840×840×240	840×840×240	840×840×240	
Main body	(W×D×H)	Package	mm	963×963×272	963×963×272	963×963×272	963×963×272	963×963×325	963×963×325	963×963×325	
	Net weight/G	ross weight	kg	22.5/29.5	22.5/29.5	22.5/29.5	22.5/29.5	26.5/34.5	26.5/34.5	26.5/34.5	
Dimension Outline		Outline	mm	950×950×65	950×950×65	950×950×65	950×950×65	950×950×65	950×950×65	950×950×65	
Panel (WxDxH) Package		mm	1033×1038×133	1033×1038×133	1033×1038×133	1033×1038×133	1033×1038×133	1033×1038×133	1033×1038×133		
Net weight/Gross weight		kg	7/11	7/11	7/11	7/11	7/11	7/11	7/11		
Loading quantity 40'GP		set	167	167	167	167	140	140	140		
Loading qu	activity	40'HQ	set	171	171	171	171	156	156	156	

	M	odel		GMV-ND80T/A-T	GMV-ND90T/A-T	GMV-ND100T/A-T	GMV-ND112T/A-T	GMV-ND125T/A-T	GMV-ND140T/A-T	GMV-ND160T/A-T
Canacity		Cooling	kW	8.0	9.0	10.0	11.2	12.5	14.0	16.0
Capacity		Heating	kW	9.0	10.0	11.2	12.5	14.0	16.0	17.5
Power sup	er supply V/Ph/Hz 220V-240V ~ 50Hz & 208V/230V ~ 60Hz									
Power con	sumption		W	68	98	98	110	110	110	120
Airflow vol	ume(H/M/L)		m³/h	1180/950/850	1500/1350/1100	1500/1350/1100	1700/1400/1100	1860/1500/1150	1860/1500/1150	2100/1700/1400
		Cooling	А	0.3	0.4	0.4	0.5	0.5	0.5	0.6
Rated curre	ent	Heating	А	0.3	0.4	0.4	0.5	0.5	0.5	0.6
		Water heating	А	/	/	/	/	/	/	/
Sound pressure level(H/M/L)			dB(A)	38/36/33	40/37/35	40/37/35	41/38/36	43/41/38	43/41/38	47/44/42
Connecting pipe Liquid		mm	Ф9.52	Ф9.52	Ф9.52	Ф9.52	Ф9.52	Ф9.52	Ф9.52	
Connecting) bibe	Gas	mm	Ф15.9	Ф15.9	Ф15.9	Ф15.9	Ф15.9	Ф15.9	Ф19.05
Drain pipe		External dia.	mm	Ф25	Ф25	Ф25	Ф25	Ф25	Ф25	Ф25
Diairi pipe		Thickness	mm	2.5	2.5	2.5	2.5	2.5	2.5	2.5
	Dimension	Outline	mm	840×840×240	840×840×320	840×840×320	840×840×320	840×840×320	840×840×320	910×910×293
Main body		Package	mm	963×963×325	963×963×409	963×963×409	963×963×409	963×963×409	963×963×409	1023×993×375
	Net weight/G	ross weight	kg	26.5/34.5	32.5/40.0	32.5/40.0	32.5/40.0	32.5/40.0	32.5/40.0	46.5/56.5
	Dimension Outline		mm	950×950×65	950×950×65	950×950×65	950×950×65	950×950×65	950×950×65	1040×1040×65
Panel			mm	1033×1038×133	1033×1038×133	1033×1038×133	1033×1038×133	1033×1038×133	1033×1038×133	1137×1137×140
	Net weight/Gross weight		kg	7/11	7/11	7/11	7/11	7/11	7/11	8/12
Loading quantity 40'GP		set	140	104	104	104	104	104	144	
Loading qu	activity	40'HO	set	156	110	110	110	110	110	1///



▼ 360° Air Discharge Cassette Indoor Unit 50/60 Hz

	Mod	del		GMV-ND28T/C-T ^{*1}	GMV-ND36T/C-T ^{*1}	GMV-ND45T/C-T ^{*1}	GMV-ND50T/C-T ^{*1}	GMV-ND56T/C-T ^{*1}	GMV-ND63T/C-T ^{*1}
Canacity		Cooling	kW	2.8	3.6	4.5	5.0	5.6	6.3
Capacity		Heating	kW	3.2	4.0	5.0	5.6	6.3	7.1
Power supp	ly		V/Ph/Hz			220V-240V ~ 50Hz 8	% 208V/230V ~ 60Hz		
Power consumption W				25	25	26	28	35	35
Airflow volume(H/M/L)		m³/h	800/700/600	800/700/600	800/700/600	900/800/700	950/850/750	950/850/750	
Alfilow volu	, ,			471/412/353	471/412/353	471/412/353	530/471/412	559/500/441	559/500/441
Innut accura	.4	Cooling	А	0.2	0.2	0.2	0.2	0.2	0.2
Input currer	IL	Heating	А	0.2	0.2	0.2	0.2	0.2	0.2
Sound pres	sure level(H/I	M/L)	dB(A)	33/30/28	33/30/28	33/30/28	35/32/29	36/33/30	36/33/30
Connecting	nino	Liquid	mm	Ф9.52	Ф12.7	Ф12.7	Ф12.7	Ф15.9	Ф15.9
Connecting	pipe	Gas	mm	Ф6.35	Ф6.35	Ф6.35	Ф6.35	Ф9.52	Ф9.52
D!		External dia.	mm	Ф25	Ф25	Ф25	Ф25	Ф25	Ф25
Drain pipe		Thickness	mm	2.5	2.5	2.5	2.5	2.5	2.5
	Dimension	Outline	mm	840×840×240	840×840×240	840×840×240	840×840×240	840×840×240	840×840×240
Main body	(W×D×H)	Package	mm	963×963×325	963×963×325	963×963×325	963×963×325	963×963×325	963×963×325
	Net weight/	Gross weight	kg	28/36	28/36	28/36	29/37	29/37	29/37
	Dimension	Outline	mm	950×950×65	950×950×65	950×950×65	950×950×65	950×950×65	950×950×65
Panel	(W×D×H)	Package	mm	1033×1038×112	1033×1038×112	1033×1038×112	1033×1038×112	1033×1038×112	1033×1038×112
	Net weight/	Gross weight	kg	6.0/9.5	6.0/9.5	6.0/9.5	6.0/9.5	6.0/9.5	6.0/9.5
40'GP		set	168	168	168	168	168	168	
Loading qua	aritity	40'HQ	set	192	192	192	192	192	192

	Мо	del		GMV-ND71T/C-T*1	GMV-ND80T/C-T*1	GMV-ND90T/C-T ^{*1}	GMV-ND100T/ C-T ⁻¹	GMV-ND112T/ C-T ⁻¹	GMV-ND125T/ C-T ⁻¹	GMV-ND140T/ C-T ^{*1}
Consoity		Cooling	kW	7.1	8.0	9.0	10.0	11.2	12.5	14.0
Capacity		Heating	kW	8.0	9.0	10.0	11.2	12.5	14.0	16.0
Power supp	ply		V/Ph/Hz			220V-240	/ ~ 50Hz & 208V/23	0V ~ 60Hz		
Power cons	sumption		W	60	68	68	80	80	95	115
Airflow volume(H/M/L) m ³			m³/h	1150/950/850	1150/950/850	1250/1000/900	1250/1000/900	1500/1200/1000	1650/1300/1100	1650/1300/1100
Cooling				0.4	0.4	0.4	0.4	0.4	0.5	0.6
Input curre	nt	Heating	А	0.4	0.4	0.4	0.4	0.4	0.5	0.6
Sound pres	ssure level(H/	M/L)	dB(A)	37/34/31	38/36/33	39/37/34	39/37/34	41/39/37	43/41/39	43/41/39
Connoction		Liquid	mm	Ф15.9	Ф15.9	Ф15.9	Ф15.9	Ф15.9	Ф15.9	Ф15.9
Connecting	j pipe	Gas	mm	Ф9.52	Ф9.52	Ф9.52	Ф9.52	Ф9.52	Ф9.52	Ф9.52
D		External dia.	mm	Ф25	Ф25	Ф25	Ф25	Ф25	Ф25	Ф25
Drain pipe		Thickness	mm	2.5	2.5	2.5	2.5	2.5	2.5	2.5
	Dimension	Outline	mm	840×840×240	840×840×240	840×840×240	840×840×240	840×840×290	840×840×290	840×840×290
Main body	(WxDxH)	Package	mm	963×963×325	963×963×325	963×963×325	963×963×325	960×960×379	960×960×379	960×960×379
	Net weight/0	Gross weight	kg	29/37	31/38	31/38	31/38	35/44	35/44	35/44
	Dimension	Outline	mm	950×950×65	950×950×65	950×950×65	950×950×65	950×950×65	950×950×65	950×950×65
Panel (WxDxH)		Package	mm	1033×1038×112	1033×1038×112	1033×1038×112	1033×1038×112	1033×1038×112	1033×1038×112	1033×1038×112
	t / / Lackage I		kg	6.0/9.5	6.0/9.5	6.0/9.5	6.0/9.5	6.0/9.5	6.0/9.5	6.0/9.5
40'GP		set	168	168	168	168	168	168	168	
Loading qu	pading quantity 40'HQ		set	192	192	192	192	144	144	144

Fresh Air Ventilation Kit

М	odel		XF150A1-T ⁻¹	XF150A-T ⁻²	
Fresh air intake volume	resh air intake volume %		10	10	
Dimension	Dimension Outline		846×857×60	834×834×60	
(W×D×H)	Package	mm	878×878×180	878×878×180	
Dimension of the connec	tion	mm	150	150	
			2	2	
Net weight/Gross weight	Net weight/Gross weight kg		3.0/7.1	2.7/7.7	

Compact 4-way Cassette Indoor Unit 50/60 Hz

	N	Model		GMV-ND22T/B-T	GMV-ND28T/B-T	GMV-ND36T/B-T	GMV-ND45T/B-T	GMV-ND50T/B-T	GMV-ND56T/B-T
0		Cooling	kW	2.2	2.8	3.6	4.5	5.0	5.6
Capacity		Heating	kW	2.5	3.2	4.0	5.0	5.6	6.3
Power sup	ply		V/Ph/Hz		,	220V-240V ~ 50Hz 8	208V/230V ~ 60Hz		
Power consumption W			W	35	35	35	45	45	45
			m³/h	600/500/400	600/500/400	600/500/400	700/600/500	700/600/500	700/600/500
Cooling		A	0.4	0.4	0.4	0.5	0.5	0.5	
Input current Heating			A	0.4	0.4	0.4	0.5	0.5	0.5
Water heating		A	/	/	/	/	/	/	
Sound pressure level(H/M/L) dB(A		dB(A)	41/39/37	41/39/37	41/39/37	45/43/39	45/43/39	45/43/39	
Connecting	nine	Liquid	mm	Ф6.35	Ф6.35	Ф6.35	Ф6.35	Ф6.35	Ф9.52
ooi ii iootii ig	, pipo	Gas	mm	Ф9.52	Ф9.52	Ф12.7	Ф12.7	Ф12.7	Ф15.9
Drain pipe		External dia.	mm	Ф25	Ф25	Ф25	Ф25	Ф25	Ф25
Dialii pipe		Thickness	mm	2.5	2.5	2.5	2.5	2.5	2.5
	Dimension	Outline	mm	596×596×240	596×596×240	596×596×240	596×596×240	596×596×240	596×596×240
Main body	(W×D×H)	Package	mm	778×738×300	778×738×300	778×738×300	778×738×300	778×738×300	778×738×300
	Net weight/G	ross weight	kg	20.5/25.5	20.5/25.5	20.5/25.5	20.5/25.5	20.5/25.5	20.5/25.5
	Dimension	Outline	mm	670×670×50	670×670×50	670×670×50	670×670×50	670×670×50	670×670×50
Panel	(WxDxH)	Package	mm	763×763×105	763×763×105	763×763×105	763×763×105	763×763×105	763×763×105
	Net weight/G	ross weight	kg	3.5/5.0	3.5/5.0	3.5/5.0	3.5/5.0	3.5/5.0	3.5/5.0
40/CB		set	245	245	245	245	245	245	
Loading quantity 40'HQ		set	279	279	279	279	279	279	

▼ 360° Air Discharge Compact Cassette Indoor Unit

	Мо	odel		GMV-ND22T/E-T	GMV-ND28T/E-T	GMV-ND36T/E-T	GMV-ND45T/E-T	GMV-ND50T/E-T	GMV-ND56T/E-1
		Cooling	kW	2.2	2.8	3.6	4.5	5.0	5.6
Capacity		Heating	kW	2.5	3.2	4.0	5.0	5.6	6.3
Power suppl	у		V/Ph/Hz			220V-240V ~ 50Hz 8	k 208V/230V ~ 60Hz		
Power consu	Power consumption W			30	30	30	45	45	45
hirflow volume(H/M/L) m³/h 500/460/370 570/480/420 620/550/480 730/650/560 730/650/560				730/650/560	730/650/560				
pout ourron		Cooling	А	0.15	0.15	0.15	0.23	0.23	0.23
nput curren	L	Heating	А	0.15	0.15	0.15	0.23	0.23	0.23
Sound press	sure level(H/M	I/L)	dB(A)	36/31/25 36/33/28 39/37/35 43/41/39 43/41/39 43/41/39					
Connecting	nino	Liquid	mm	Ф6.35	Ф6.35	Ф6.35	Ф6.35	Ф6.35	Ф9.52
Johnecung	hihe	Gas	mm	Ф9.52	Ф9.52	Ф12.7	Ф12.7	Ф12.7	Ф15.9
		External dia.	mm	Ф25	Ф25	Ф25	Ф25	Ф25	Ф25
Orain pipe		Thickness	mm	2.5	2.5	2.5	2.5	2.5	2.5
	Dimension	Outline	mm	570×570×265	570×570×265	570×570×265	570×570×265	570×570×265	570×570×265
Main body	(WxDxH)	Package	mm	653×698×295	653×698×295	653×698×295	653×698×295	653×698×295	653×698×295
	Net weight/0	Gross weight	kg	17.5/49.6	17.5/49.6	17.5/49.6	17.5/49.6	17.5/49.6	17.5/49.6
	Dimension	Outline	mm	620×620×47.5	620×620×47.5	620×620×47.5	620×620×47.5	620×620×47.5	620×620×47.5
Panel	(W×D×H)	Package	mm	701×701×125	701×701×125	701×701×125	701×701×125	701×701×125	701×701×125
	Net weight/0	Gross weight	kg	3.0/4.5	3.0/4.5	3.0/4.5	3.0/4.5	3.0/4.5	3.0/4.5
40'GP		set	378	378	378	378	378	378	
Loading quantity 40'HC		40'HQ	set	432	432	432	432	432	432



^{*1:}This model can be matched with 4-way cassette indoor units of GMV-ND**T/A-T (except 16kW) series only.

*2: This model can be matched with 4-way cassette indoor units of GMV-ND**T/C-T series only.

2-way Cassette Indoor Unit

	M	odel		GMV-ND28TS/A-T	GMV-ND36TS/A-T	GMV-ND45TS/A-T	GMV-ND50TS/A-T	GMV-ND56TS/A-T	GMV-ND63TS/A-T	GMV-ND71TS/A-T	
0		Cooling	kW	2.8	3.6	4.5	5.0	5.6	6.3	7.1	
Capacity		Heating	kW	3.2	4.0	5.0	5.6	6.3	7.1	8.0	
Power supply V/P		V/Ph/Hz		220V-240V ~ 50Hz & 208V/230V ~ 60Hz							
Power consumption		W	55	55	55	55	103	103	103		
Airflow volume(H/M/L)		m³/h	830/660/580	830/660/580	830/660/580	830/660/580	1100/900/750	1100/900/750	1100/900/750		
		Cooling	Α	0.4	0.4	0.4	0.4	0.7	0.7	0.7	
Rated curre	ent	Heating	Α	0.4	0.4	0.4	0.4	0.7	0.7	0.7	
		Water heating	Α	/	/	/	/	/	/	/	
Sound pressure level(H/M/L)		dB(A)	35/32/29	35/32/29	35/32/29	35/32/29	39/36/33	39/36/33	39/36/33		
Connecting	nine	Liquid	mm	Ф6.35	Ф6.35	Ф6.35	Ф6.35	Ф9.52	Ф9.52	Ф9.52	
Corniccing	pipe	Gas	mm	Ф9.52	Ф12.7	Ф12.7	Ф12.7	Ф15.9	Ф15.9	Ф15.9	
Drain pipe		External dia.	mm	Ф25	Ф25	Ф25	Ф25	Ф25	Ф25	Ф25	
Diairi pipe		Thickness	mm	2.5	2.5	2.5	2.5	2.5	2.5	2.5	
	Dimension	Outline	mm	1200×520×315	1200×520×315	1200×520×315	1200×520×315	1200×520×315	1200×520×315	1200×520×315	
Main body	(W×D×H)	Package	mm	1523×658×430	1523×658×430	1523×658×430	1523×658×430	1523×658×430	1523×658×430	1523×658×430	
	Net weight/Gro	oss weight	kg	43/54	43/54	43/54	43/54	46/56	46/56	46/56	
	Dimension	Outline	mm	1416×630×33	1416×630×33	1416×630×33	1416×630×33	1416×630×33	1416×630×33	1416×630×33	
Panel	(W×D×H)	Package	mm	1578×768×120	1578×768×120	1578×768×120	1578×768×120	1578×768×120	1578×768×120	1578×768×120	
	Net weight/Gro	oss weight	kg	7/11	7/11	7/11	7/11	7/11	7/11	7/11	
Loading quantity 40'GP		40'GP	set	90	90	90	90	90	90	90	
Localing qu	activity	40'HQ	set	105	105	105	105	105	105	105	

▼ 1-way Cassette Indoor Unit

50/60 Hz

	M	odel		GMV-ND22TD/A-T	GMV-ND28TD/A-T	GMV-ND36TD/A-T	GMV-ND45TD/A-T	GMV-ND50TD/A-T	GMV-ND56TD/A-T
Capacity		Cooling	kW	2.2	2.8	3.6	4.5	5.0	5.6
Сараспу		Heating	kW	2.5	3.2	4.0	5.0	5.6	6.3
Power supply			V/Ph/Hz			220V-240V ~ 50Hz 8	208V/230V ~ 60Hz		
Power consumption		W	30	30	30	45	45	45	
Airflow volume(H/M/L)		m³/h	600/500/450	600/500/450	600/500/450	830/600/500	830/600/500	890/667/564	
		Cooling	А	0.2	0.2	0.2	0.3	0.3	0.3
Rated curre	ent	Heating	А	0.2	0.2	0.2	0.3	0.3	0.3
		Water heating	А	/	/	/	/	/	/
Sound pressure level(H/M/L)		dB(A)	36/32/28	36/32/28	36/32/28	40/35/30	40/35/30	41/38/35	
Liquid		Liquid	mm	Ф6.35	Ф6.35	Ф6.35	Ф6.35	Ф6.35	Ф9.52
Connecting	Connecting pipe Gas		mm	Ф9.52	Ф9.52	Ф12.7	Ф12.7	Ф12.7	Ф15.9
Drain pipe		External dia.	mm	Ф25	Ф25	Ф25	Ф25	Ф25	Ф25
Dialii pipe		Thickness	mm	2.5	2.5	2.5	2.5	2.5	2.5
	Dimension	Outline	mm	987×385×178	987×385×178	987×385×178	987×385×178	987×385×178	987×385×178
Main body	(WxDxH)	Package	mm	1307×501×310	1307×501×310	1307×501×310	1307×501×310	1307×501×310	1307×501×310
	Net weight/Gro	ss weight	kg	20.0/27.0	20.0/27.0	20.0/27.0	21.0/28.5	21.0/28.5	21.0/28.5
	Dimension	Outline	mm	1200×460×55	1200×460×55	1200×460×55	1200×460×55	1200×460×55	1200×460×55
Panel	(W×D×H)	Package	mm	1265×536×121	1265×536×121	1265×536×121	1265×536×121	1265×536×121	1265×536×121
	Net weight/Gro	ss weight	kg	4.2/6.0	4.2/6.0	4.2/6.0	4.2/6.0	4.2/6.0	4.2/6.0
		40'GP	set	138	138	138	138	138	138
Loading qu	icitity	40'HQ	set	138	138	138	138	138	138

Wall-mounted Type Indoor Unit

	Model		GMV-ND22G/B4B-T	GMV-ND28G/B4B-T	GMV-ND36G/B4B-T	GMV-ND45G/B4B-T	GMV-ND50G/B4B-T	
0	Cooling	kW	2.2	2.8	3.6	4.5	5.0	
Capacity	Heating	kW	2.5	3.2	4.0	5.0	5.6	
Power supply		V/Ph/Hz		220\	60Hz			
Power consumpt	ower consumption		20	20	25	35	35	
Airflow volume(H	irflow volume(H/M/L)		500/440/300	500/440/300	630/460/320	850/580/500	850/580/500	
Detect consent	Cooling	А	0.10	0.10	0.12	0.17	0.17	
Rated current	Heating	А	0.10	0.10	0.12	0.17	0.17	
Sound pressure level(H/M/L)		dB(A)	35/33/30	35/33/30	38/35/31	43/40/37	43/40/37	
Connecting pipe	Liquid	mm	Ф6.35	Ф6.35	Ф6.35	Ф6.35	Ф6.35	
Connecting pipe	Gas	mm	Ф9.52	Ф9.52	Ф12.7	Ф12.7	Ф12.7	
Davis sins	External dia.	mm	Ф20	Ф20	Ф20	Ф20	Ф20	
Drain pipe	Thickness	mm	1.5	1.5	1.5	1.5	1.5	
Dimension	Outline	mm		845×209×289		970×300×224		
(W×D×H)	Package	mm		976×281×379		1096×3	83×320	
et weight/Gross weight		kg		10.5/12.5	12.5/15.5			
Leading guestic	40'GP			576	448			
Loading quantity	oading quantity 40'HQ			576	512			

50/60 Hz

	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	
0	Cooling	kW	5.6	6.3	7.1	8.0	9.0	9.5	
Capacity	Heating	kW	6.3	7.1	7.5	9.0	10.0	10.5	
Power supply V		V/Ph/Hz			220V-240V ~ 50Hz	& 208V/230V ~ 60Hz			
Power consumpt	ion	W	50	50	65	80	80	100	
Airflow volume(H	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	А	0.24	0.24	0.31	0.41	0.41	0.41	
Rated current	Heating	А	0.24	0.24	0.31	0.41	0.41	0.41	
Sound pressure I	evel(H/M/L)	dB(A)	43/41/37	43/41/37	44/41/37	49/46/40	49/46/40	52/48/40	
Connecting pipe	Liquid	mm	Ф9.52	Ф9.52	Ф9.52	Ф9.52	Ф9.52	Ф9.52	
Connecting pipe	Gas	mm	Ф15.9	Ф15.9	Ф15.9	Ф15.9	Ф15.9	Ф15.9	
Danier miner	External dia.	mm	Ф20	Ф20	Ф20	Ф20	Ф20	Ф20	
Drain pipe	Thickness	mm	1.5	1.5	1.5	1.5	1.5	1.5	
Dimension Outline mm		mm	1078×325×246			1350×258×326			
(WxDxH) Package		mm		1203×413×350		1496×421×369			
Net weight/Gross weight		kg	16.0/19.0			18.5/23.5			
40'GP		set	282			228			
Loading quantity 40'HQ		set		329		266			



Fresh Air Processing Indoor Unit

	Model		GMV-NDX125P/A-T*	GMV-NDX140P/A-T *	GMV-NDX224P/A-T*	GMV-NDX250P/A-T*	GMV-NDX280P/A-T*	GMV-NX450P/A(X4.0)-M *
Conneity	Cooling	kW	12.5	14.0	22.4	25 .0	28.0	45.0
Capacity	Heating	kW	8.5/10.0	10.0/12.0	16.0/20.0	18.0/20.0	20.0/22.0	32.0
Power supply		V/Ph/Hz		220V-24	10V ~ 50Hz & 208V/230V	~ 60Hz		380~415/3/50
Power consumption		W	200/350	200/350	400/760	520/860	520/860	1240
Airflow volume(c	lefaulted/range)	m³/h	1200/1000~2000	1200/1000~2000	2000/1500~3000	2500/2000~3500	2500/2000~3500	4000
	Cooling	Α	1.5/2.0	1.5/2.0	2.5/4.3	3.1/4.9	3.1/4.9	3.4
Input current	Heating	Α	1.5/2.0	1.5/2.0	2.5/4.3	3.1/4.9	3.1/4.9	3.4
	Water heating	Α	/	/	/	/	/	/
ESP		Pa	150/50~200	150/50~200	200/50~300	200/50~300	200/50~280	200
Sound pressure leve	el(defaulted/range)	dB(A)	42/40~50	42/40~50	45/45~54	47/47~54	47/47~54	58
Connecting pipe	Liquid	mm	Ф9.52	Ф9.52	Ф9.52	Ф9.52	Ф9.52	Ф12.7
Connecting pipe	Gas	mm	Ф15.9	Ф15.9	Ф19.05	Ф22.2	Ф22.2	Ф28.6
Drain pipe	External dia.	mm	Ф25	Ф25	Ф25	Ф25	Ф25	Ф33
Diam pipe	Thickness	mm	2.5	2.5	2.0	2.0	2.0	3.0
Dimension	Outline	mm	1400×700×300	1400×700×300	1483×791×385	1483×791×385	1483×791×385	1700×1100×650
(WxDxH)	Package	mm	1601×813×365	1601×813×365	1578×883×472	1578×883×472	1578×883×472	1893×1463×838
Net weight/Gro	ss weight	kg	54/61	54/61	82/104	82/104	82/104	208/266
Loading	40' GP	set	84	84	52	52	52	16
quantity	40' HQ	set	98	98	65	65	65	16

Note*: 1.This series can be matched with GMV5, GMV5E, GMV5 CP, GMV5MAX and GMV5 HR (top discharge outdoor unit);
2. GMV-NDX***'s external static pressure and air volume are adjustable. The marked power and current are ex-factory rated value and the maximum value; the marked air volume and noise are the ex-factory rated value and the range.

Console Indoor Unit 50/60 Hz

	Model		GMV-ND22C/A-T	GMV-ND28C/A-T	GMV-ND36C/A-T	GMV-ND45C/A-T	GMV-ND50C/A-T
0it	Cooling	kW	2.2	2.8	3.6	4.5	5.0
Capacity	Heating	kW	2.5	3.2	4.0	5.0	5.5
Power supply		V/Ph/Hz		220V-	240V ~ 50Hz & 208V/230V ~ 6	60Hz	
Power consump	otion	W	15	15	20	40	40
Airflow volume(H/M/L)	m³/h	400/320/270	400/320/270	480/400/310	680/600/500	680/600/500
	Cooling	А	0.17	0.17	0.25	0.40	0.40
Rated current	Heating	А	0.17	0.17	0.25	0.40	0.40
	Water heating	А	/	/	/	/	/
ESP		Pa	0	0	0	0	0
Sound pressure	e level(H/M/L)	dB(A)	38/33/27	38/33/27	40/37/32	46/43/39	46/43/39
Connecting pipe	Liquid	mm	Ф6.35	Ф6.35	Ф6.35	Ф6.35	Ф6.35
Connecting pipe	Gas	mm	Ф9.52	Ф9.52	Ф12.7	Ф12.7	Ф12.7
Drain pipe	External dia.	mm	Ф28	Ф28	Ф28	Ф28	Ф28
Diairi pipe	Thickness	mm	1	1	1	1	1
Dimension	Outline	mm	700×215×600	700×215×600	700×215×600	700×215×600	700×215×600
(W×D×H)	Package	mm	788×283×777	788×283×777	788×283×777	788×283×777	788×283×777
Net weight/Gros	ss weight	kg	16/19	16/19	16/19	16/19	16/19
Loading	40' GP	set	348	348	348	348	348
quantity	40' HQ	set	348	348	348	348	348

Floor Ceiling Type Indoor Unit 50/60 Hz

	Model		GMV-ND28ZD/A-T	GMV-ND36ZD/A-T	GMV-ND50ZD/A-T	GMV-ND56ZD/A-T	GMV-ND63ZD/A-T
Consoit	Cooling	kW	2.8	3.6	5.0	5.6	6.3
Capacity	Heating	kW	3.2	4.0	5.6	6.3	7.1
Power supply		V/Ph/Hz		220V	-240V ~ 50Hz & 208V/230V ~	60Hz	
Power consump	otion	W	40	40	50	50	75
Airflow volume(irflow volume(H/M/L)		650/580/500	650/580/500	950/850/700	950/850/700	1400/1150/1000
	Cooling	Α	0.3	0.3	0.4	0.4	0.6
Rated current	Heating	Α	0.3	0.3	0.4	0.4	0.6
	Water heating	А	/	/	/	/	/
Sound pressure	e level(H/M/L)	dB(A)	36/34/32	36/34/32	42/38/33	42/38/33	44/42/39
Connecting pipe	Liquid	mm	Ф6.35	Ф6.35	Ф6.35	Ф9.52	Ф9.52
Corniecting pipe	Gas	mm	Ф9.52	Ф12.7	Ф12.7	Ф15.9	Ф15.9
Drain pipe	External dia.	mm	Ф17	Ф17	Ф17	Ф17	Ф17
Didiii pipo	Thickness	mm	1.75	1.75	1.75	1.75	1.75
Dimension	Outline	mm		1220×7	00×225		1420×700×245
(W×D×H)	Package	mm		1343×8	23x315		1548×828×345
Net weight/Gros	ss weight	kg	40/49	40/49	40/49	40/49	50/58
Loading	40' GP	set	145	145	145	145	90
quantity	40' HQ	set	158	158	158	158	98

	Model		GMV-ND71ZD/A-T	GMV-ND90ZD/A-T	GMV-ND112ZD/A-T	GMV-ND125ZD/A-T	GMV-ND140ZD/A-T	GMV-ND160ZD/A-T		
Conneity	Cooling	kW	7.1	9.0	11.2	12.5	14.0	16.0		
Capacity	Heating	kW	8.0	10.0	12.5	14.0	16.0	18.0		
Power supply	Power supply			220V-240V ~ 50Hz & 208V/230V ~ 60Hz						
Power consump	otion	W	75	140	160	160	160	200		
Airflow volume(H/M/L)	m³/h	1400/1150/1000	1600/1400/1200	2000/1800/1450	2000/1800/1450	2000/1800/1450	2300/2100/1900		
	Cooling	А	0.6	1.1	1.4	1.4	1.4	1.9		
Rated current	Heating	А	0.6	1.1	1.4	1.4	1.4	1.9		
	Water heating	А	/	/	/	/	/	/		
Sound pressure	e level(H/M/L)	dB(A)	44/42/39	50/47/43	51/47/42	52/49/45	52/49/45	52/49/45		
Connecting pipe	Liquid	mm	Ф9.52	Ф9.52	Ф9.52	Ф9.52	Ф9.52	Ф9.52		
Corninecting pipe	Gas	mm	Ф15.9	Ф15.9	Ф15.9	Ф15.9	Ф15.9	Ф19.05		
Drain pipe	External dia.	mm	Ф17	Ф17	Ф17	Ф17	Ф17	Ф17		
Diairi pipo	Thickness	mm	1.75	1.75	1.75	1.75	1.75	1.75		
Dimension	Outline	mm	1420×70	00×245		1700×7	00×245			
(WxDxH)	Package	mm	1548×82	28×345		1828×8	28×345			
Net weight/Gros	ss weight	kg	50/58	50/58	60/68	60/68	60/68	60/68		
Loading	40' GP	set	90	90	84	84	84	84		
quantity	40' HQ	set	98	98	98	98	98	98		



	Model		GMV-ND28ZD/B-T ^{*1}	GMV-ND36ZD/B-T ^{*1}	GMV-ND50ZD/B-T ^{*1}	GMV-ND56ZD/B-T ^{*1}	GMV-ND63ZD/B-T ^{*1}	GMV-ND71ZD/B-T ^{*1}
Canacity	Cooling	kW	2.8	3.6	5.0	5.6	6.3	7.1
Capacity	Heating	kW	3.2	4.0	5.6	6.3	7.1	8.0
Power supply		V/Ph/Hz			220V-240V ~ 50Hz 8	& 208V/230V ~ 60Hz		
Power consum	ption	W	40	40	50	75	75	75
Airflow volume	(SL/H/M/L)	m³/h	650/610/530/460	650/610/530/460	850/800/700/600	850/800/700/600	1300/1220/1090/940	1300/1220/1090/940
Detect comment	Cooling	А	0.3	0.3	0.4	0.6	0.6	0.6
Rated current	Heating	А	0.3	0.3	0.4	0.6	0.6	0.6
Sound pressure	e level(H/M/L)	dB(A)	36/32/28	36/32/28	42/39/36	44/41/38	44/41/38	44/41/38
Connecting	Liquid	mm	Ф6.35	Ф6.35	Ф6.35	Ф9.52	Ф9.52	Ф9.52
pipe	Gas	mm	Ф9.52	Ф12.7	Ф12.7	Ф15.9	Ф15.9	Ф15.9
Danie eine	External dia.	mm	Ф17	Ф17	Ф17	Ф17	Ф17	Ф17
Drain pipe	Thickness	mm	1.75	1.75	1.75	1.75	1.75	1.75
Dimension	Outline	mm	870×665×235	870×665×235	870×665×235	870×665×235	1200×665×235	1200×665×235
(W×D×H)	Package	mm	1033×770×300	1033×770×300	1033×770×300	1033×770×300	1363×770×300	1363×770×300
Net weight/Gro	ss weight	kg	25/30	25/30	26/31	31/37	31/37	31/37
Loading	40'GP	set	144	144	144	144	98	98
quantity	40'HQ	set	166	166	166	166	113	113

Note: *1 This product model is under development. Please confirm the final specifications with sales representatives.

	Model		GMV-ND90ZD/B-T*1	GMV-ND112ZD/B-T ^{*1}	GMV-ND125ZD/B-T*1	GMV-ND140ZD/B-T ^{*1}	GMV-ND160ZD/B-T ^{*1}
0	Cooling	kW	9.0	11.2	12.5	14.0	16.0
Capacity	Heating	kW	10.0	12.5	14.0	16.0	17.0
Power supply		V/Ph/Hz		220V	-240V ~ 50Hz & 208V/230V ~	60Hz	,
Power consumption		W	140	160	160	160	200
Airflow volume	(SL/H/M/L)	m³/h	1500/1380/1200/1020	1800/1700/1540/1400	1800/1700/1540/1400	2100/2000/1800/1480	2300/2200/1870/1590
	Cooling	А	1.1	1.4	1.4	1.4	1.9
Rated current	Heating	А	1.1	1.4	1.4	1.4	1.9
Sound pressure	e level(H/M/L)	dB(A)	47/43/39	47/44/42	47/44/42	50/48/44	53/49/45
Connecting	Liquid	mm	Ф9.52	Ф9.52	Ф9.52	Ф9.52	Ф9.52
oipe	Gas	mm	Ф15.9	Ф15.9	Ф15.9	Ф15.9	Ф19.05
	External dia.	mm	Ф17	Ф17	Ф17	Ф17	Ф17
Orain pipe	Thickness	mm	1.75	1.75	1.75	1.75	1.75
Dimension	Outline	mm	1200×665×235	1570×665×235	1570×665×235	1570×665×235	1570×665×235
(W×D×H)	Package	mm	1363×770×300	1729×770×300	1729×770×300	1729×770×300	1729×770×300
Net weight/Gro	ss weight	kg	31/37	40/47	40/47	42/49	42/49
oading	40'GP	set	98	53	53	53	53
	40'HQ	set	113	64	64	64	64

Note: *1 This product model is under development. Please confirm the final specifications with sales representatives.

▼ Concealed Floor Standing Type

50/60 Hz

	Model		GMV-ND22ZA/A-T	GMV-ND28ZA/A-T	GMV-ND36ZA/A-T	GMV-ND45ZA/A-T	GMV-ND56ZA/A-T	GMV-ND63ZA/A-T	GMV-ND71ZA/A-T
Consoit	Cooling	kW	2.2	2.8	3.6	4.5	5.6	6.3	7.1
Capacity	Heating	kW	2.5	3.2	4.0	5.0	6.3	7.1	8.0
Power supply	Power supply				220V-240V	/ ~ 50Hz & 208V/230	√ ~ 60Hz		
Power consump	tion	W	35	35	43	45	80	80	90
Airflow volume(H	/M/L)	m³/h	450/350/250	450/350/250	550/450/350	650/500/400	900/750/600	900/750/600	1100/900/700
Rated current	Cooling	Α	0.18	0.18	0.22	0.23	0.41	0.41	0.46
Rated current	Heating	А	0.18	0.18	0.22	0.23	0.41	0.41	0.46
ESP		Pa	10/0~40	10/0~40	10/0~40	15/0~60	15/0~60	15/0~60	15/0~60
Sound pressure	level(H/M/L)	dB(A)	30/28/25	30/28/25	33/31/28	33/31/28	35/33/30	35/33/30	37/35/33
Connecting pipe	Liquid	mm	Ф6.35	Ф6.35	Ф6.35	Ф6.35	Ф9.52	Ф9.52	Ф9.52
Connecting pipe	Gas	mm	Ф9.52	Ф9.52	Ф12.7	Ф12.7	Ф15.9	Ф15.9	Ф15.9
Desir sine	External dia.	mm	Ф25	Ф25	Ф25	Ф25	Ф25	Ф25	Ф25
Drain pipe	Thickness	mm	2.5	2.5	2.5	2.5	2.5	2.5	2.5
Dimension	Outline	mm	700×615×200	700×615×200	700×615×200	900×615×200	1100×615×200	1100×615×200	1100×615×200
(W×D×H)	Package	mm	893×743×305	893×743×305	893×743×305	1123×743×305	1323×743×305	1323×743×305	1323×743×305
Net weight/Gross	s weight	kg	23/30	23/30	23/30	27/36	32/41	32/41	32/41
Looding quantity	40'GP	set	273	273	273	217	175	175	175
Loading quantity	40'HQ	set	312	312	312	248	200	200	200

▼ Floor Standing Type

50/60 Hz

30/00 112				
	Model		GMV-ND100L/A-T	GMV-ND140L/A-T
Conneity	Cooling	kW	10	14
Capacity	Heating	kW	11	15
Power supply		V/Ph/Hz	220V-240V ~ 50Hz	& 208V/230V ~ 60Hz
Power consum	ption	W	200	200
Airflow volume	irflow volume(H/M/L) m ³ /h		1850/1600/1400	1850/1600/1400
	Cooling	Α	1.5	1.5
Rated current	Heating	А	1.5	1.5
	Water heating	А	/	/
ESP		Pa	0	0
Sound pressur	e level(H/M/L)	dB(A)	50/48/46	50/48/46
Connecting nine	Liquid	mm	Ф9.52	Ф9.52
Connecting pipe	Gas	mm	Ф15.9	Ф15.9
Drain pipe	External dia.	mm	Ф31	Ф31
Diairi pipe	Thickness	mm	4.5	4.5
Dimension			1870×5	
(WxDxH) Package		mm	2083×7	38×545
Net weight/Gro	ss weight	kg	54/74	57/77
Loading	40' GP	set	67	67
quantity	40' HQ	set	67	67



AHU KIT

50/60 Hz

	Мо	del		GMV-N3	6U/B-T	GM	V-N71U/I	в-т	GMV	'-N140U/	в-т		GMV-	-N280U/I	в-т		GM\	/-N560U	/B-T
Defaulted capacity of ex-factory Capacity			36 71		71		140		280				560						
		kW	3.	3.6		7.1			14.0		28.0				56.0				
ex-lactory		Heating	kW	4.	.0		8.0			16.0				31.5				63.0	
		Capacity		28	36	45	56	71	90	112	140	224	280	335	400	450	504	560	840
Adjustable capad	city	Cooling	kW	2.8	3.6	4.5	5.6	7.1	9.0	11.2	14.0	22.4	28.0	33.5	40.0	45.0	50.4	56.0	84.0
		Heating	kW	3.2	4.0	5.0	6.3	8.0	10.0	12.5	16.0	25.0	31.5	37.5	45.0	50.0	56.5	63.0	94.5
Power input			W	8	3		8			8				8				8	
Power supply			V/Ph/Hz					220V-2	40V ~ 50	0Hz & 20	8V/230V	/ ~ 60Hz							
	AHU-ł	<it .<="" td=""><td>mm</td><td>Ф6.35</td><td>Ф6.35</td><td>Ф9.52</td><td>Ф9.52</td><td>Ф9.52</td><td>Ф9.52</td><td>Ф9.52</td><td>Ф9.52</td><td>Ф9.52</td><td>Ф9.52</td><td>Ф9.52</td><td>Ф9.52</td><td>Ф9.52</td><td>Ф15.9</td><td>Ф15.9</td><td>Ф15.9</td></it>	mm	Ф6.35	Ф6.35	Ф9.52	Ф9.52	Ф9.52	Ф9.52	Ф9.52	Ф9.52	Ф9.52	Ф9.52	Ф9.52	Ф9.52	Ф9.52	Ф15.9	Ф15.9	Ф15.9
Connecting pipe	AHU	Liquid pipe	mm	Ф6.35	Ф6.35	Ф6.35	Ф9.52	Ф9.52	Ф9.52	Ф9.52	Ф9.52	Ф9.52	Ф9.52	Ф12.7	Ф12.7	Ф12.7	Ф15.9	Ф15.9	Ф19.05
Cormodanig pipo	/ 110	Gas pipe	mm	Ф9.52	Ф12.7	Ф12.7	Ф15.9	Ф15.9	Ф15.9	Ф15.9	Ф15.9	Ф19.05	Ф22.2	Ф25.4	Ф25.4	Ф28.6	Ф28.6	Ф28.6	Ф31.8
	Conne	ection method	I	Brazing co	connection Brazing connection		Brazing connection		Brazing connection				Brazing connection						
Outline dimension	n	EXV box	mm	203×3	26×85	20	03×326×	85	20	03×326×	85		20	3×326×8	15		24	16×500×	120
(W×D×H)		Control box	mm	334×28	34×111	33	4×284×1	11	33	4×284×1	11	334×284×111		33	34×284×	111			
Packing size(Wx	(DxH)	'	mm	539×46	61×247	539×461×247 539×461×		9×461×2	.47	539×461×247				759×645×180					
Net weight/Gross weight		kg	9.5/	12.5		10.0/13.0)		10.0/13.0)		10.0/13.0			12.5/17.0				
Loading 40'GP		set	98	31		981			981		981				702				
Quantity		40'HQ	set	10	90		1090			1090		1090				756			

1	Modular Model			GMV-N560U/B-T+GMV-N140U/B-T	GMV-N560U/B-T+GMV-N280U/B-T	GMV-N560U/B-T+0	GMV-N560U/B-T			
Defaulted capacity of Cap		Capacity	840+140		840+280	840+560	840+840			
ex-factory	ty Oi	Cooling	kW	98	112	140	168			
ex-ractory		Heating	kW	110.5	126.0	157.5	189.0			
Power input			W	8+8	8+8 8+8 8+8					
Power supply	Power supply V/Ph/h			220V-240V ~ 50Hz & 208V/230V ~ 60Hz						
Connecting pipe	AHU	Liquid pipe	mm	Ф19.05	Ф19.05	Ф19.05	Ф19.05			
Service mig pipe		Gas pipe	mm	Ф38.1	Ф38.1	Ф41.3	Ф41.3			
Outline dimension		EXV box	mm	246×500×120+203×326×85	246×500×120+203×326×85	(246×500×120)×2				
(WxDxH)		Control box mm		(334×284×111)×2	(334×284×111)×2	(334×284×111)×2				
Net weight		kg	12.5+10.0	12.5+10.0	12.5-	+12.5				

	Mod	del		GMV-N36U/C-T*	GMV-N71U/C-T*	GMV-N140U/C-T*	GMV-N280U/C-T*	GMV-N560U/C-T*			
		Capacity		36	71	140	280	560			
Defaulted of ex-factory	capacity of	Cooling	kW	3.6	7.1	14.0	28.0	56.0			
ex-lactory		Heating	kW	4.0	8.0	16.0	31.5	63.0			
Capacity			28/36	45/56/71	90/112/140	224/280/335/400/450	504/560/840				
Adjustable	capacity	Cooling	kW	2.8/3.6	4.5/5.6/7.1	9.0/11.2/14.0	22.4/28.0/33.5/40.0/45.0	50.4/56.0/84.0			
		Heating	kW	3.2/4.0	5.0/6.3/8.0	10.0/12.5/16.0	25.0/31.5/37.5/45.0/50.0	56.0/63.0/94.5			
Power inpu	ıt		W	8	8	8	8	8			
Power sup	ply		V/Ph/Hz	220V-240V ~ 50Hz & 208V/230V ~ 60Hz							
	AHU-KIT (ex size)	k-factory pipe	mm	Ф6.35	Ф9.52	Ф9.52	Ф9.52	Ф15.9			
Connecting	Air handling	Liquid pipe	mm	Ф6.35/Ф6.35	6.35/9.52/9.52	9.52/9.52/9.52	9.52/9.52/12.7/12.7/12.7	15.9/15.9/19.05			
pipe	unit			Ф9.52/Ф12.7	12.7/15.9/15.9	15.9/15.9/15.9	19.05/22.2/25.4/25.4/28.6	28.6/28.6/31.8			
	Connection	method		Brazing connection							
Outline din	nension	EXV box		203×326×85	203×326×85	203×326×85	203×326×85	246×500×120			
$(W \times D \times H)$		Control box	mm	334×284×111	334×284×111	334×284×111	334×284×111	334×284×111			
Package d	imension(WxI	DxH)	mm	539×461×247	539×461×247	539×461×247	539×461×247	759×645×180			
Net weight		kg	9.5	10.0	10.0	10.0	12.5				
Gross weight		kg	12.5	13.0	13.0	13.0	17.0				
Looding		40'GP	set	981	981	981	981	702			
Loading		40'HP		1090	1090	1090	1090	756			

Mod	el		GMV-N560U/C-T+GMV-N140U/C-T*	GMV-N560U/C-T+GMV-N280U/C-T*	GMV-N560U/C-1	F+GMV-N560U/C-T*			
	Capacity		840+140	840+280	840+560	840+840			
Defaulted capacity of ex-factory	Cooling	kW	98	112	140	168			
ex-lactory	Heating	kW	110.5	126.0	157.5	189.0			
Power input		W	8+8	8+8					
Power supply		V/Ph/Hz		220V-240V ~ 50Hz & 208V/230V ~ 60Hz					
Air handling unit	Liquid pipe	mm	Ф19.05	Ф19.05	Ф19.05	Ф19.05			
All riandling unit	Gas pipe	111111	Ф38.1	Ф38.1	Ф41.3	Ф41.3			
Outline dimension	EXV box	mm	246×500×120+203×326×85	246×500×120+203×326×85	(246×5	00×120)×2			
(WxDxH) Control box		mm	(334×284×111)×2	(334×284×111)×2	(334×284×111)×2				
Net weight		kg	12.5+10.0	12.5+10.0	12.5+12.5				
Gross weight		kg	17+13	17+13	1	7+17			

Note: * This product is under development. Please confirm the final specifications with sales representatives.



Control System



VRF Selector Ultimate

Model selection system is a necessary tool for the sales of VRF system in overseas market. In order to meet the demand of overseas market for model selection system, improve the competitive strength of Gree products in overseas market, Gree provides clients with intelligent, fast and multivariate model selection system.

Intelligent Model Selection

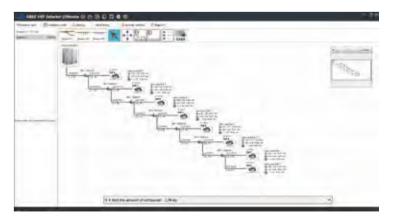
- 1) The system will take multiple aspects into consideration to provide clients with the optimal plan by combining performance, noise, comfort, reliability, cost, etc.
- 2) It can calculate according to user demand, ambient temperature, using location, static pressure, etc. to recommend the suitable 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 differs in different regions. The intelligent model selection system will conduct special process according to metric/inch system, unit parameters, different language system 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 the suitable unit and pipe arrangement.



Fast Model Selection

The software can provide user with audio-visual model building experience via 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 of user.





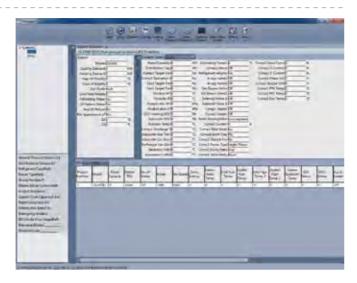


Intelligent Debugging Software

GMV5 offers an intelligent debugging software to the 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;



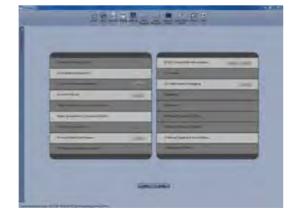
Control Functions

- 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 debug exception; 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.



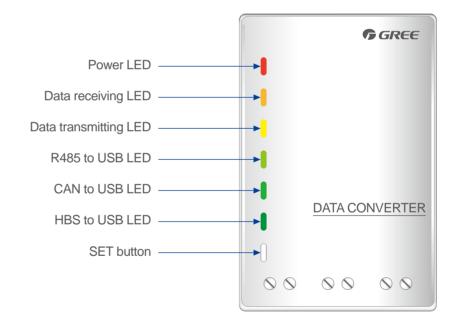


Step 1: Change Database Saving Path

Step 2: Database Save Setting

USB Data Converter

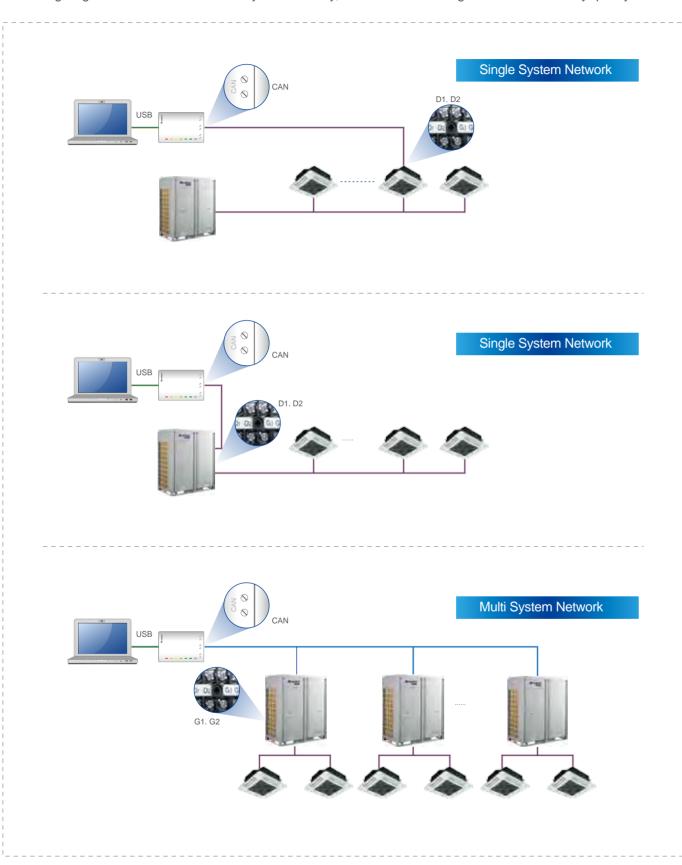
Users can use USB data converter to freely convert CAN/HBS/RS485 data into USB data, achieving data interchange between computer and air conditioner.





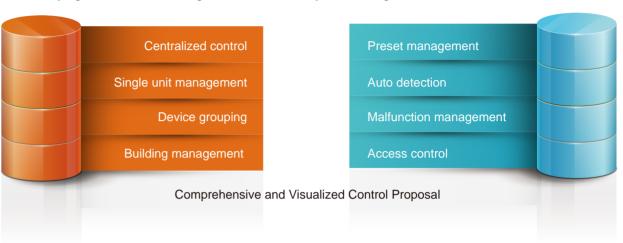
Auto Direction of Connection Way

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



Intelligent Remote Eudemon

With the design philosophy of to be intelligent, smart, inclusive and compatible, Gree developed the Intelligent Remote Eudemon System for VRF units, providing users with a distributed remote monitoring system for VRF units. By adopting the latest technologies and combining the features of engineering construction and debugging, this system is more compatible while less difficult to be installed and debugged. It can be widely used in industrial parks, shopping centers, office buildings, apartment blocks, villa clusters or other commercial or residential occasions, satisfying the demands of large-scale or cross-city networking.



5 Key Functions

Device Monitoring

It can monitor and control the parameters of every air conditioning device within the system, for example, on/off, running mode, set temperature, ambient temperature, etc., presenting the communication and malfunction data of air conditioners in a visual way.

Remote Control

Administrator can log in the control system through web browser on any kinds of terminals (from a long distance). Based on user's property management payment or energy-saving needs, you can control the on/off, temperature, running mode or other controllable parameters of any indoor unit from a long distance.

Malfunction Alarm

When an air conditioning device is malfunctioning, the system will report in real time and display malfunction details to users or after-sales service staff for the convenience of locating malfunction and timely maintenance.

Property Management

Visual management: It provides three viewing and control modes in regard to devices, engineering and grouping. You can set "alias" for indoor units, change the details according to structural alteration and view clearly the condition of devices in each area, which is convenient for management.

Schedule Management

It provides customized schedule preset mode and auto switch between "workday mode" and "holiday mode", satisfying different scheduling demands of commercial buildings, workplaces, family units, etc.

4 Key Features

Distributed Design for Balancing the Load

With distributed structure, the gateway has independent logical memory capability and can perform data processing for the first time, reducing the pressure on server (Intelligent Remote Eudemon). Once customized preset is made, each gateway can work independently, no need to keep connecting to the software.

Adopt WEB Technology Based on HTML5, Control the System Anywhere

The software adopts B/S structure. With system's core functions installed on the server side, the front end adopts HMTL5 technology and the web browser is the client side. You can control the system on different platforms and terminals.

Design According to the Project, Increase Interactive Experience for Convenient Debugging and Use

It adopts visual interactive design, supports one-button import of details, engineering information, and so on, making the modification and debugging more convenient, and the operation more visualized and reliable. On the basis of Ethernet, the building's local network can be utilized directly without the need to build an air conditioning network, saving materials and construction time.

• Fast, Reliable and in Real Time

Instead of using RS485 communication method, it adopts "CAN+Ethernet", which features high efficiency and large data volume. You can view units' condition in real time and control over 4,000 air conditioners in seconds.



Sontrol Syster

▼ Intelligent Remote Controller



Dimension 266x208x59mm

Product Features

Big Capacity

One controller can be connected with 255 indoor units (16 systems).

Visualized and Convenient Configuration

The controller adopts integrated WEB technology, providing visualized configuration page to improve configuration efficiency.

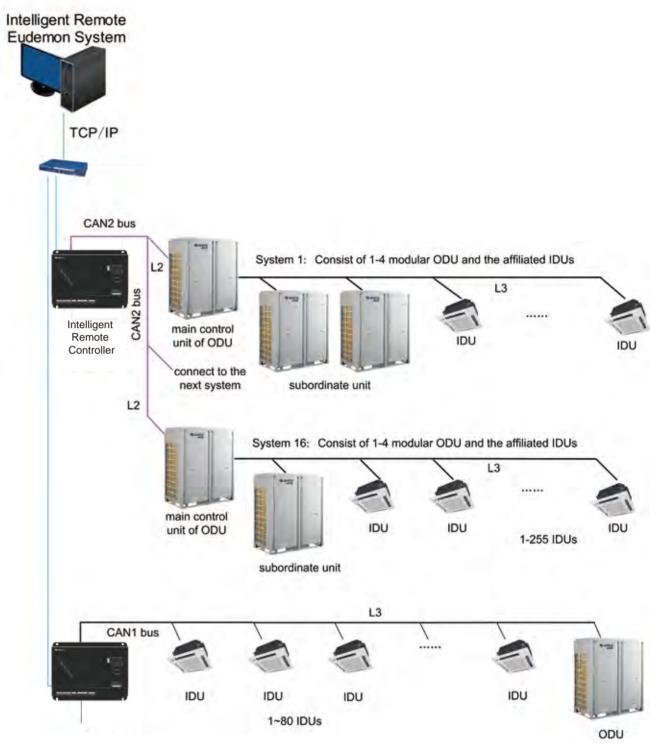
• CE and ETL Certification

The controller complies with CE and ETL certification, which is safe and reliable.

High Efficiency

800MHz processor is adopted to handle interaction data and respond control commands precisely in second level.

▼ Distributed Structure



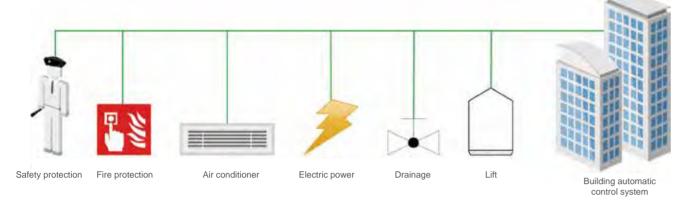
Note:

- (1) 16 systems or 255 indoor units can be connected to one Intelligent Remote Controller.
- (2) 16 Intelligent Remote Controllers can be connected to one set of Intelligent Remote Eudemon (customized order is available).



Building Protocol Gateway

Air conditioner is a kind of indispensable equipment in the building, which has higher and higher requirement of automation and intelligence. In order to meet the demand of users solve the problems of air conditioner monitoring and automatic control, Gree has developed multiple building protocol gateways for connecting to different BMS or BAS systems.



BACnet Gateway

Functional Features

Large Network Capacity

One BACnet Gateway can support 16 systems or 255 sets of IDU at most.

• Group Control Function

BACnet Gateway supports group control ON/OFF of units.

Long Distance Monitor

BACnet Gateway supports the remote control of ON/OFF of unit, temperature setting, mode setting, fan speed setting, and shielding function, etc., and can achieve real-time monitor of operating status (ambient temperature, ON/OFF status of unit, etc.), error status (communication error, operational error, different sensor error of unit, etc.).

Easy Control

BACnet Gateway supports collocating gateway IP and related data for embedded webpage, thus user can self-define the gateway IP according to actual situation.

I/O Expansion

BACnet Gateway supports 5 digital input (DI) and output (DO) interfaces, in which DI1 is defined as fire alarm signal input interface, other I/O interfaces can be self-defined by

Strong Points

Provide Standard BACnet/IP Protocol Interface, Open the Table of Protocol Point

BACnet Gateway provides standard BACnet/IP protocol interface, open the table of BACnet protocol point (unit parameter example No.), for the integration of the building of user.

Adopt HTML5 Technology, Adapt to Different Environment

BACnet Gateway embedded webpage is developed by adopting HTML5 technology, which can set the gateway IP and related information in Windows system, Linux system, or Mac OS system.

• With ETL and CE Certification

BACnet Gateway has been rewarded with the north America ETL and EU CE safety certification.



Dimension 296×177×56mm

Modbus Gateway(Pro)



Dimension 296×177×56mm

Functional Features

Large Network Capacity

One Modbus Gateway (Pro) can support 16 systems or 255 sets of IDU at most.

Group Control Function

Modbus Gateway (Pro) supports group control of ON/OFF of unit, temperature setting, mode setting, fan speed setting, and locking functions.

• Long Distance Monitor

Modbus Gateway (Pro) supports the remote control of ON/OFF of unit, temperature setting, mode setting, fan speed setting, and shielding function, etc., and can achieve real-time monitor of operating status (ambient temperature, ON/OFF status of unit, etc.), error status (communication error, operational error, different sensor error of unit, etc.).

• I/O Expansion

Modbus Gateway (Pro) supports 5 digital input (DI) and output (DO) interfaces, in which DI1 is defined as fire alarm signal input interface, other I/O interfaces can be self-defined by user.

Strong Points

1 Gateway Can Monitor 255 Indoor Units

Linkable with Other Networks

5 ways of digital input and output enables flexible connection to other networks.

• Fire Alarm Interface for Auto Stop

When fire alarm goes off, units can be automatically turned off through the fire alarm interface, which will lower the risk of damage for the units.

• Provide Standard Modbus RTU Protocol Interface, Open the Table of Protocol Point

Modbus Gateway (Mini) provides standard Modbus RTU protocol interface, open the table of Modbus protocol point (unit parameter example No.), for the integration of the building of user.

• With ETL and CE Certification

Modbus Gateway(Mini) has acquired the north America ETL and EU CE safety certification.



Modbus Gateway(Mini)



Dimension 113.18x54.58x20.05mm

Functional Points

Network Capacity

One Modbus Gateway (Mini) can support 16 systems or 128 sets of IDU at most.

Group Control Function

Modbus Gateway (Mini) supports group control of ON/OFF of unit, temperature setting, mode setting, fan speed setting, and locking functions.

Long Distance Monitor

Modbus Gateway (Mini) supports the remote control of ON/OFF of unit, temperature setting, mode setting, fan speed setting, and shielding function, etc., and can achieve real-time monitor of operating status (ambient temperature, ON/OFF status of unit, etc.), error status (communication error, operational error, different sensor error of unit, etc.).

Strong Points

Compact Size, Easy Installation

Dimension of Modbus Gateway (Mini) is 113.18x54.58x20.05mm, which can be placed in anywhere satisfies the using conditions, which can be fixed with only two screws.

• Provide Standard Modbus RTU Protocol Interface, Open the Table of Protocol Point

Modbus Gateway (Mini) provides standard Modbus RTU protocol interface, open the table of Modbus protocol point (unit parameter example No.), for the integration of the building of user.

With ETL and CE Certification

Modbus Gateway(Mini) has acquired the north America ETL and EU CE safety certification.

▼ S2S* KNX* Gateway



Dimension 91.4x72.3x61.9mm

Functional Features

Scene Modes Supported

4 scene modes can be preset and user setting is supported.

Standard KNX Device with Convenient Configuration

It can be directly connected to the bus of KNX/EIB* system and can be used immediately through ETS5 configuration.

Long-distance Monitoring

The status and error information can be monitored through KNX bus.

Strong Points

• CE, ETL and KNX Certificate

Comply with CE and ETL certification.

No Need of Additional Power Supply

Power is supplied by the bus with carrier wave communication.

Convenient Installation

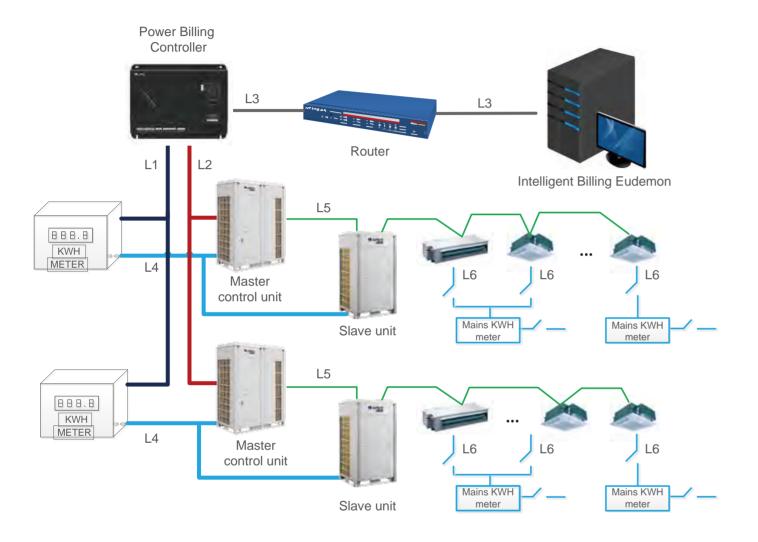
Installation way of standard 35mm guide rail is adopted.

Note: *S2S: single to single; *KNX: konnex; *EIB: European Installation Bus.



Intelligent Billing Eudemon

Gree Intelligent Billing System 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.



- L1: RS485 bus for communication between Controller and KWH meter; L4: ODU power supply cord;
- L2: CAN2 bus for communication between Controller and unit;
- L3: Cable:

- L5: CAN1 bus for communication between IDU and ODU;
- L6: IDU power supply cord;

Note:

- (1) 15 systems or 255 indoor units can be connected to one Power Billing Controller;
- (2) 16 Power Billing Controllers can be connected to one set of Intelligent Billing Eudemon;
- (3) One multi VRF system should be configured with one KWH meter.

5 Key Functions

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.

Arrearage Shutdown

When the air conditioner is not available due to overdue bill or other reasons, the shielding function can limit the operation of some of IDU or deactivate some of the functions such as ON/OFF of unit, operating mode, fan speed, etc.

Long-distance Control

The administrator can log in the system via browser of any terminals, and conduct long-distance control for ON/OFF of IDU, temperature, mode and related controllable parameters according to billing or using situation. Meanwhile, it supports management of logging of multiple

Error Alarm

When the air conditioning equipment is faulted, the system will report in real time, and display the detailed information of error, and at the same time record to the system database as one of the billing basis.

Property Management

Achieve visible management, you may name the project, floors, tenants, and even set "alias" for indoor units. Details can be imported by one button, convenient for building management.

4 Highlights

• Distributed Design for Balancing the Load and Reducing the Risk

With distributed structure, the logical operation for billing is built inside the gateway. The software provides centralized management. Each device runs independently, so failure of a certain device will not affect the stability of the entire system.

Adopt WEB Technology Based on HTML5, Control the System Anywhere

The software adopts B/S structure. With system's core functions installed on the server side, the front end adopts HMTL5 technology and the web browser is the client side. You can control the system on different platforms and terminals.

Design According to the Project, Increase Interactive Experience for Convenient Debugging and Use

It adopts visual interactive design, supports one-button import of details, engineering information, and so on, making the modification and debugging more convenient, and the operation more visualized and reliable

Compatible to Different Electric Meters

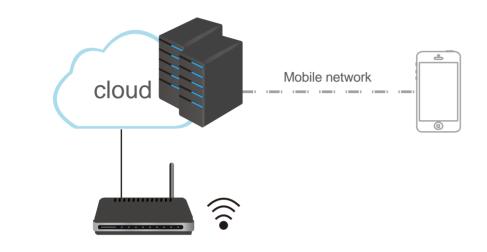
No.	Manufacturer	Electric Meter Model	Country of Origin	Satisfactory Regions (reference)
1	ENTES	EPR-04S-96	Turkey	Turkey, Middle East
2	WattNode	WNC-3D-240-MB	America	North America, Latin America
3	Siemens	PAC3200	Germany	Russia, Europe, Asia Pacific
4	Schneider	iEM3255	France	Australia, Europe
5	Wasion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

The billing eudemon is compatible to the above mentioned electric meters, either one of the electric meter can be adopted after being confirmed by the local dealer; the "Satisfactory Regions" in the list are only for reference



G-Cloud

G-Cloud is a new generation WIFI smart controller of Gree commercial units. It adopts a way of operation different from remote control or wired control. It can display air conditioner running status directly to users, who can conduct point-to-point control over air conditioners through an APP. It is an important part of Gree smart home. G-Cloud is designed for intelligent home control, such as preset control, long-distance control, scene management, malfunction reminding and family access management.





CAN1 network, multi VRF cloud control supports 80 indoor units in a single system, to realize long-distance control

System Chart





APP operation chart

Light Weight

Compact and easy to install, no need of external power source; power supplied by equipment, available for use right after connection; a shielded wire of 4 cores is required for connection; easy operation; GREE+APP easy user configuration; quick guidance is provided, with simple and clear display;

Smart and Long-distance Control

User can set the running status of the cooling system based on a set of rules; long-distance control allows you to master your home appliances at any time;

Capability

Multi VRF cloud control; one set of device is capable of controlling up to 80 sets of indoor units in a single system; applicable to villas, office buildings, shopping malls, hotels, etc;

Sensitive

Monitor the units and detect errors.



Wired Controller and Remote Controller

There are two kinds of controllers: wired controller and remote controller. The system provides various controls for users, such as cooling, heating, dehumidifying and fan etc., users can select it flexibly according to their own using methods.

Wired Controller XK46



- LCD with black background and white words; touch buttons:
- Clock can be displayed and set; 24 hours timer setting for on/off;
- 7 levels of fan speed, up & down swing and left & right swing;
- Can be switched in auto, cooling, dehumidifying, fan, heating, floor heating, 3D heating and space heating operation modes;
- Master and slave wired controllers can be set: simultaneous control over several IDUs is available:
- Available functions: sleep, ventilation, quiet/auto quiet, light, energy saving, auxiliary heating, drying, memory, low-temperature dehumidifying, absence in heating, controllable auxiliary heating in dehumidifying, filter cleaning reminder, etc.;
- Detect ambient temperature; receive infrared remote controller signal;
- With project parameters viewing and setting functions.

Wired Controller XK79 (For hotel)



- Small and fashionable appearance with thickness only of 12mm and back lighting LCD with black background and white words;
- Eight touch buttons;
- Clock can be displayed and set in countdown and clock timer:
- Besides normal functions, other functions such as low-temperature dehumidifying, absence in heating, controllable auxiliary heating in dehumidifying and filter cleaning reminder can
- Door control system can be connected.

Remote Controller YAP1F



- Can be switched in auto, cooling, dehumidifying, fan and heating operation modes;
- Besides turbo, 6 levels of fan speed can be set;
- Available functions: child lock, drying, health, ventilation, turbo, sleep, light, absence, I-feel and timer:
- Clock display and indoor/outdoor ambient temperature viewing functions;
- Up & down swing and left & right swing.

Remote Controller YV1L1



- Back lighting LCD;
- Can be switched in auto, cooling, dehumidifying, fan, heating, floor heating, 3D heating and space heating operation modes;
- 7 levels of fan speed, up & down swing and left & right swing;
- Available functions: child lock, energy saving, drying, health, ventilation, quiet/auto quiet, sleep, light, absence, low-temperature dehumidifying, I-feel and timer:
- With clock display, system parameters viewing and setting functions.



Wired Controller XK55



- Elegant appearance;
- High-resolution color LCD;
- Capacitive touch control; receive infrared remote controller signal;
- Various timing functions: three weekly timers and one countdown timer can be set simultaneously; mode, temperature and fan speed can be preset in weekly timer;
- Complete system functions; each function will be implemented in an individual page with interactive and humanized interface;
- Various personalized functions, e.g. setting brightness and backlight time;
- Sufficient viewing functions, e.g. viewing on/off status and after-sales service hot line.

Wired Controller XK86

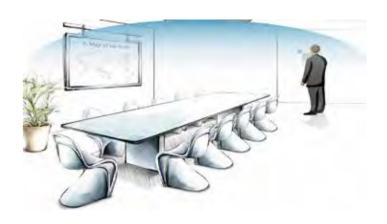


- Elegant and concise appearance;
- Touch buttons with back lighting LCD;
- Chinese and English display can be switched;
- With weekly timer function;
- Complete system functions with each function implemented in an individual page;
- Refreshing, auto dehumidifying, absence and other modes can be set;
- Detect ambient temperature precisely;
- With electricity consumption inquiry function (Unit with electricity measurement function shall be connected):
- With service hotline inquiry and after-sales phone number record functions.



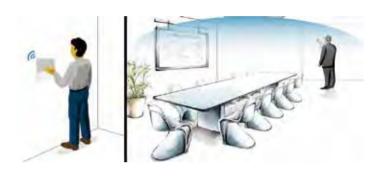
• Single Control of One Unit

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.



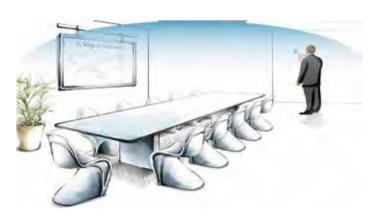
• Central Control of Several Indoor Units

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.



Smart Zone Controller and Central Controller

Smart Zone Controller CE53-24/F(C)



- High-resolution color LCD;
- 7" capacitive touch screen for easy operation;
- Shielding function of single unit, group and all IDUs (shielding on/off, mode, temp setting, etc.);

- With various functions: centralized control(control) all indoor units), group management(support DIY grouping), schedule management(setting of several schedules) and single unit control(on/off, mode, temp setting, fan speed, quiet, swing control, etc.);
- Provide naming of indoor units, selection of icons and personalized settings(setting background, backlight, etc);
- Up to 32 units can be centrally controlled;
- Elegant and fashionable appearance;
- Embedded installation in wall with projecting thickness only of 11mm;
- Connectable with network of indoor units or outdoor units;
- Independent power supply in 100~240V wide voltage range;
- With project setting, parameter viewing, malfunction record and access management functions.

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



- Adopt built-in type installation; the exposed part is only 11mm;
- High resolution colorful LCD;
- 4.3 inch capacitive touch screen for easy operation;
- 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 function: ON/OFF, Mode, Set, Fan, Swing, etc; advance functions: Save, Sleep, E-heater, Absence, Quiet, Turbo, etc.);
- With long-distance shield function (shield switch, mode, set, etc) for single unit, group and all indoor
- Support denomination for indoor units, and icon selection, realizing individuation management;
- Support maximum 32 indoor units, with powerful function:
- Indoor or outdoor unit network can be connected, simple and flexible;
- 100~240V super wide voltage for independent power supply, stable and reliable;
- With functions of engineering setting, parameters view, malfunction view and authority management, easy for debugging and maintenance.

Central Controller CE52-24/F(C)



- High-resolution color LCD;
- 7" capacitive touch screen for easy operation;
- With project setting, parameter viewing, malfunction record and access management functions.

- With various functions: centralized control(control) all indoor units), group management(support DIY grouping), schedule management (setting of several schedules) and single unit control(on/off,
- Shielding function of single unit, group and all IDUs (shielding on/off, mode, temp setting, etc.);

mode, temp setting, fan speed, quiet, swing

- Provide naming of indoor units, selection of icons and personalized settings (setting background, backlight, etc.);
- Up to 255 units can be centrally controlled;
- Elegant and fashionable appearance;

control, etc.);

- Embedded installation in wall with projecting thickness only of 11mm;
- Connectable with network of indoor units or outdoor units:
- Independent power supply in 100~240V wide voltage range:

Central Controller CE57-24/F(C)*



*: This controller is under development

- 10 inch color touch screen:
- With functions of integrated control, group management, schedule management and single indoor unit control;
- With shielding functions for single, group and all indoor units;
- Support indoor unit denomination and icon selection:
- 1275 air conditioning devices at the most can be controlled:
- With functions of engineering setting, parameters check, error record, data export and authority management.

Control System Lineup

		Outdoor series						
Controllin	g systems			GMV5	GMV5 MINI	GMV5 SLIM	GMV5 MAX	GMV5 HR
	Intelligent Remote	FE30-24/DF(B)		0	0	0	0	0
	Eudemon	ME30-24/DF(B)			• •			
Long- distance monitor		ME30-24/E5(M)	$(^{\circ})$	0	0	0	0	0
	Gateway of building protocol	ME30-24/E6(M)	*********	0	0	0	0	0
		ME30-24/D4(B)		0	0	0	0	0
		FE11-24/D4(B)		0		0		
Intelli	igent Billing Eudemon	ME11-24/D4(B)		0	0	O	0	O
	G-Cloud	ME31-00/C3		0	0	0	0	0
Other	Optoelectronic isolated converter	GD02		0	0	0	0	0
modules	Optoelectronic isolated signal mutliplier	RS485-W		0	0	0	0	0

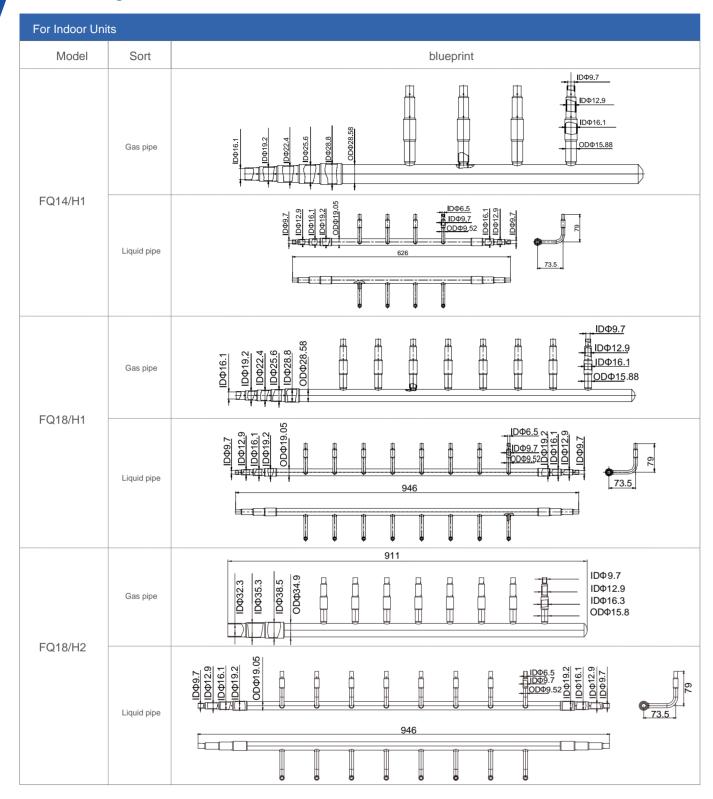
Controlling system	Indoor s	series	Cassette Type	(High ESP、 Low ESP、 Slim Ducted) Duct Type	Fresh Air Processing	Wall mounted Type	Floor Ceiling Type	Console Type	Floor Standing Type	Air Handler	Concealed Floor Standing Type
	YAP1F	(4) (4)	•	0	0	•	•	•	•	0	0
Wireless Controller	YV1L1		0	0	0	0	0	0	0	0	0
	XK46		0	•	•	0	0	0	0	•	•
Wired controller	XK79		0	0	0	0	0	0	0	0	0
	XK55	2528	0	0	0	0	0	0	0	0	0
	XK86	直	0	0	0	0	0	0	0	0	0
	JS05(receiver)			0	0						0
0.410.41	CE52-24/F(C)	ER.	0	0	0	0	0	0	0	0	0
Central Controller	CE57-24/F(C)	9 9 9	0	0	0	0	0	0	0	0	0
Smart Zone Controller	CE53-24/F(C)	80.	0	0	0	0	0	0	0	0	0
E-Smart Zone Controller	CE54-24/F(C)		0	0	0	0	0	0	0	0	0

▶ Branching Joint (For GMV5 units)

Model	Total Capacity	Appear	rance
iviodei	X(kW)	Gas Pipe	Liquid Pipe
FQ01A/A	X<20	DOM 6.1 g 1.8 DOM 6.1 g 1.8 DOM 6.2 g 1.8 DOM 6.1 g 1.	DOG 55/16 DOG 7/6/18 DOG 7/6/18 DOG 55/16 DOG 56/18 DOG
FQ01B/A	20≤X≤30	DQ19.20 ^{2.2} DQ19.20 ^{2.2} DQ19.20 ^{2.2} DQ19.20 ^{2.2} DQ1.20 ^{2.2}	DOL29 ⁽¹⁾
FQ02/A	30 <x≤70< td=""><td> Doza 6g²</td><td>DØ12.95² DØ12.95² DØ12.95² DØ12.95² DØ12.95² DØ12.95² DØ12.95² DØ12.95² DØ12.95² DØ12.95²</td></x≤70<>	Doza 6g ²	DØ12.95 ²
FQ03/A	70 <x≤135< td=""><td>DOA16 DO35.2 DO41.6 DO4</td><td>DØ16.2 DØ19.3 DØ16.2 DØ12.9 DØ12.9</td></x≤135<>	DOA16 DO35.2 DO41.6 DO4	DØ16.2 DØ19.3 DØ16.2 DØ12.9 DØ12.9
FQ04/A	135 <x< td=""><td>IDOM17⁰³ — DOS4 3⁰³ DOS5 3⁰³</td><td>10019.3 10022.7 1003.1</td></x<>	IDOM17 ⁰³ — DOS4 3 ⁰³ DOS5 3 ⁰³	10019.3 10022.7 1003.1

For Outdoor Units				
Model	Appea	arance		
Model	Gas Pipe	Liquid Pipe		
ML01/A	10053 800 D0053	7,05 COOD		

▶ Branching Joint (For GMV5 units)



T	Upstream conne	ecting pipe dimension	Model of manifold pipe
Total rated capacity of downstream indoor units X(kW)	Gas pipe(mm)	Liquid pipe(mm)	
X≤40.0	≪Φ25.4	≪ Φ12.7	FQ14/H1
X≤68.0	≪Ф28.6	≪Ф15.9	FQ18/H1
68.0 <x< td=""><td>≽Ф31.8</td><td>≽Ф19.05</td><td>FQ18/H2</td></x<>	≽Ф31.8	≽Ф19.05	FQ18/H2

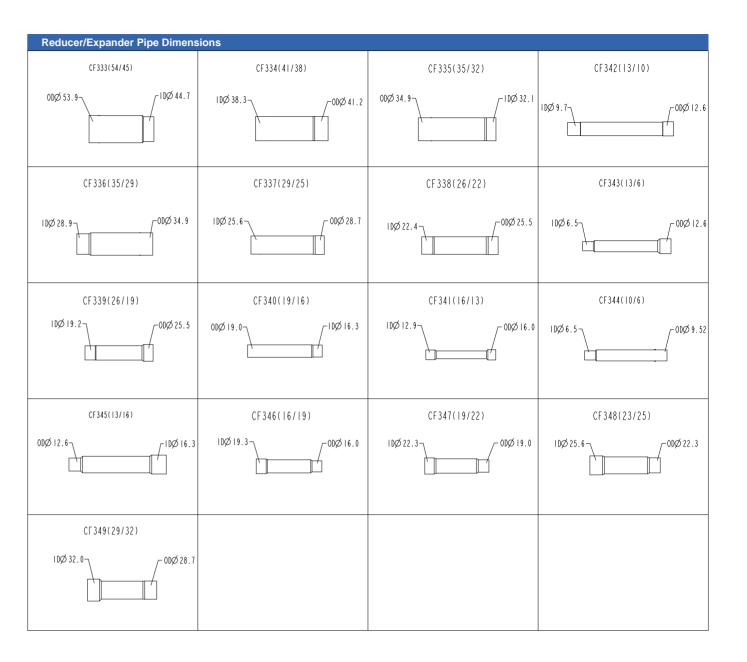
▶ Branching Joint (For GMV5 HR)

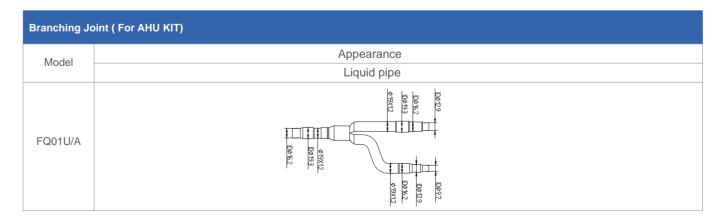
For Outdoor Units and Mode Exchanger						
Model	Total capacity of the		Appearance			
iviodei	downstream indoor unit X(kW)	High-pressure gas pipe	Low-pressure gas pipe	Liquid pipe		
FQ01Na/A	X≤5.0	DO129@15 DO129@15 DO65%	D09.7% D012.9% D012.9% D012.9% D002.7%			
FQ02Na/A	5.0 <x≤22.4< td=""><td>DO129% DO129% DO129% DO129% DO129% DO129% DO129%</td><td>DO16.2 DO19.3 DO16.2 DO19.3 DO19.3 DO19.3 DO19.3 DO19.3</td><td>DO8.7 gis DO8.7 gis DO8.7 gis DO8.7 gis DO8.7 gis DO8.7 gis DO8.5 gis DO8.5</td></x≤22.4<>	DO129% DO129% DO129% DO129% DO129% DO129% DO129%	DO16.2 DO19.3 DO16.2 DO19.3 DO19.3 DO19.3 DO19.3 DO19.3	DO8.7 gis DO8.7 gis DO8.7 gis DO8.7 gis DO8.7 gis DO8.7 gis DO8.5		
FQ03Na/A	22.4 <x≤28.0< td=""><td> IDO16.2 IDO18.3 IDO18.3 IDO18.9 IDO1</td><td>D0224²² D028.6²² D028.6²² D028.6²² D028.6²² D028.6²² D021.6²² D021.6²² D021.6²² D021.6²² D021.6²²</td><td></td></x≤28.0<>	IDO16.2 IDO18.3 IDO18.3 IDO18.9 IDO1	D0224 ²² D028.6 ²² D028.6 ²² D028.6 ²² D028.6 ²² D028.6 ²² D021.6 ²² D021.6 ²² D021.6 ²² D021.6 ²² D021.6 ²²			
FQ04Na/A	28.0 <x≤68< td=""><td>D032.4% D033.6% D033.8% D033.8% D032.8% D032.8% D032.8% D032.4% D032.4%</td><td>D032.4% D035.6% D038.8% D049.2% D049.2% D040.2% D040.2% D040.2% D040.2%</td><td>D01.29 dbs D01.29 dbs D01.29 dbs D02.29 dbs</td></x≤68<>	D032.4% D033.6% D033.8% D033.8% D032.8% D032.8% D032.8% D032.4% D032.4%	D032.4% D035.6% D038.8% D049.2% D049.2% D040.2% D040.2% D040.2% D040.2%	D01.29 dbs D01.29 dbs D01.29 dbs D02.29 dbs		
FQ05Na/A	68 <x≤96< td=""><td> D023.64²³</td><td> 100352 100316 1000416 1000416 1000529 100052</td><td> DO16.2 DO19.3 DO16.2 DO19.3 DO10.9 D</td></x≤96<>	D023.64 ²³	100352 100316 1000416 1000416 1000529 100052	DO16.2 DO19.3 DO16.2 DO19.3 DO10.9 D		
FQ06Na/A	96 <x≤135< td=""><td> DOSES DOSE</td><td>100383 D001.6 D001.6 D002.5 D00</td><td>D016.2 D016.2 D016.2 D010.2 D010.2 D010.2</td></x≤135<>	DOSES DOSE	100383 D001.6 D001.6 D002.5 D00	D016.2 D016.2 D016.2 D010.2 D010.2 D010.2		
FQ07Na/A	135 <x< td=""><td>100913 42 100117 42 100117 43 100913 42 100913 42</td><td>D0023 % C D0043 % C D0055 % C D0043 % C D0055 % C D0055</td><td>DO224⁴² DO326⁴² DO326⁴²</td></x<>	100913 42 100117 42 100117 43 100913 42 100913 42	D0023 % C D0043 % C D0055 % C D0043 % C D0055	DO224 ⁴² DO326 ⁴²		



For Indoor &	Mode Exchanger								
Model	Total capacity of the downstream	Appearance							
Wodel	indoor units X(kW)	Gas pipe	Liquid pipe						
FQ01A/A	X≤14.2	IDQL6.1°0.15 IDQL2.9°0.15 IDQL2.9°0.15 IDQL2.9°0.15 IDQL2.9°0.15 IDQL2.9°0.15 IDQL2.9°0.15 IDQL2.9°0.15 IDQL2.9°0.15 IDQL2.9°0.15	IDØ9.7°015 IDØ6.5°015						
FQ01B/A	14.2 <x≤28.0< td=""><td>ID@9.2%2 ID@6.1%3 ID@6.1%3 ID@6.1%3 ID@1.2%3 ID@1.2%3</td><td> DORT 29(23)</td></x≤28.0<>	ID@9.2%2 ID@6.1%3 ID@6.1%3 ID@6.1%3 ID@1.2%3 ID@1.2%3	DORT 29(23)						

Model	Module's capacity X(kW)	Appearance				
		High-pressure gas pipe	Low-pressure gas pipe	Liquid pipe		
ML01R	50.4≤X≤96	DOLL7 42	D00.55 & 25 D00.00			
ML02R	96 <x< td=""><td>IDOU.1 62 - DOSA 3 162 - DOSA 3</td><td>The CLUST of the C</td><td>DO22.4/2 DO23.6/2 DO23.6/2 DO23.6/2 DO23.6/2 DO23.4/2 DO23.4/2 DO23.4/2</td></x<>	IDOU.1 62 - DOSA 3 162 - DOSA 3	The CLUST of the C	DO22.4/2 DO23.6/2 DO23.6/2 DO23.6/2 DO23.6/2 DO23.4/2 DO23.4/2 DO23.4/2		







Energy Recovery Ventilation(ERV)



Gree Energy Recovery Ventilation System is designed especially for providing healthy and fresh indoor air, constant air volume and comfortable temperature and humidity with less power consumption. With F7-grade filter, it can effectively remove PM10, PM2.5 and other particles in the air; through the total heat exchange core that is made of high-polymer material, the air led from the outside will have efficient heat exchange with the discharged air. Heat exchange efficiency is up to 78%. It is applicable to houses, villas, banks, office buildings and other places with fresh air demand.

Adopts Hexahedral Total Heat Exchange Core

It adopts hexahedral total heat exchange core, which provides reverse ventilation passage for fresh air and discharged air while preventing the mixture of fresh air and discharged air. Temperature exchange efficiency is 78% at most.



Air Volume Multi-selection Control

5 selections of air volume are available. Each selection differs obviously from another. It can satisfy different fresh air requirements under different housing areas and different pipe dimensions.

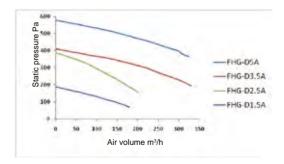


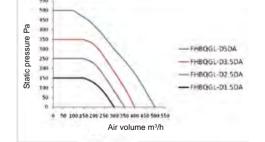
350 m ³ /h	High
300 m ³ /h	Medium high
250 m ³ /h	Medium
200 m ³ /h	Medium low
150 m ³ /h	Low

Note: The above air volume data is tested base on model FHBQGL-D3.5DA-S.

Constant Fresh Air Volume

System adopts DC motor and constant air volume control to realize air provision that will not be attenuated under certain range of static pressure. It can maintain sufficient supply of fresh air during operation, providing users with super comfortable experience.





Air volume/static pressure curve of common AC motor

Air volume/static pressure curve of DC motor

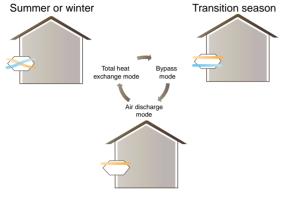
The left diagram shows the air volume/static pressure curve of common AC motor. We can see that as the static pressure increases (filter gets more dirty), the volume of fresh air is attenuated correspondingly. As the operation goes on and on, fresh air volume may not be able to satisfy the design requirement.



Energy Recovery Ventilation(ERV)

Comfortable Temperature and Humidity

Temperature and humidity change a lot in different seasons. The system can automatically switch into bypass mode, air discharge mode, or total heat exchange mode during operation based on the detected temperature and humidity both indoors and outdoors, so you will enjoy comfortable air supply regardless of the seasons.



Low temperature season or high humidity outdoors

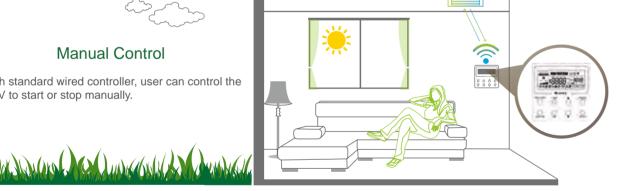
Intelligent Control

System has manual control, linked control and auto control functions. When you connect the ERV with Multi VRF units, it can realize linked control; when you connect the ERV with air quality detection module, it can realize auto control function.



Manual Control

With standard wired controller, user can control the ERV to start or stop manually.



Linked Control

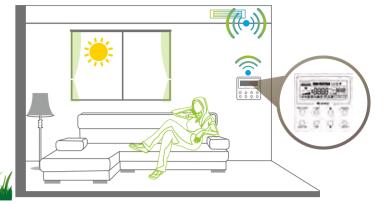
By connecting the ERV system with GMV5 DC Inverter Multi VRF system through communication line, user can set linked control.





With the air quality detection box independently developed by Gree, user can set auto control.

- •When the air quality detection box detects that indoor air quality is bad, the ERV system will start up automatically and introduce fresh air into the
- •When the air quality detection box detects that indoor air quality is good, the ERV system will be shut off automatically. You can enjoy fresh air at any time without manual operation.

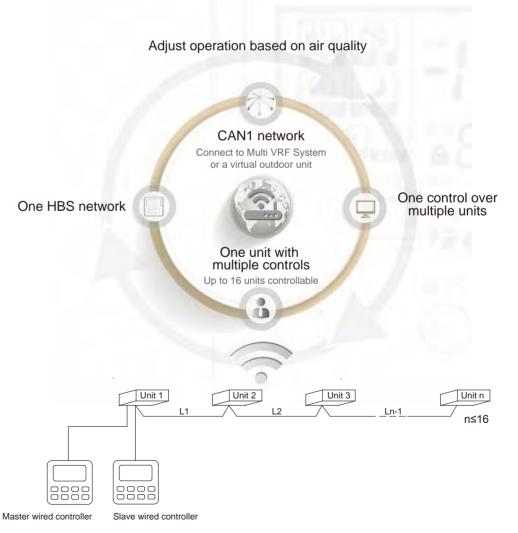




Note on auto control function: when you use the air quality box, it can display indoor air quality grade, CO2 and PM2.5 value, as well as the indoor temperature and humidity.

▼ "One Unit with Multiple Controls" and "One Control Over Multiple Units"

System can be connected with two wired controllers, i.e. master controller and slave controller. Both of them can control the system at the same time. When the Multi VRF System or a virtual outdoor unit is connected, one HBS network can control up to 16 units.







Smart Structural Design

The maintenance window adopts clasp design and hinge design, which is convenient for the maintenance of filter, total heat exchange core and the motor. The thickness of the device is only 220/240mm. It occupies less ceiling space, which is convenient for ceiling installation.









Specifications

Model				FHBQGL-D1.5DA-S ^{*1}	FHBQGL-D2.5DA-S ^{*1}	FHBQGL-D3.5DA-S ^{*1}	FHBQGL-D5DA-S ^{*1}
Rated voltage		V	220-240	220-240	220-240	220-240	
Rated frequency			Hz	50/60	50/60	50/60	50/60
Power input			kW	0.05	0.10	0.15	0.30
Current input		А	0.35	0.70	1.00	1.90	
	Airf low v olume		CFM	88	147	206	294
			m³/h	150	250	350	500
	ESP	Rated	Pa	100	100	100	100
la da a a conit	Thermal exchange efficiency		%	78	75	65	75
Indoor unit	Sound power level		dB(A)	39	44	49	55
	Dimension (WxDxH)	Outline	mm	1160×700×220	1160×700×220	1200×785×240	1385×785×240
		Package	mm	1465×870×270	1465×870×270	1525×970×290	1708×970×290
	Net weight/Gross weight		kg	50.0/58.5	50.0/58.5	60.0/70.5	71.5/82.5
Ventiduct	Ventiduct Outer diameter		mm	160	160	160	200
Loading quantity 20'GP/40'GP/40'HQ		set	82/172/195	82/172/195	57/121/140	54/117/131	

Note: *1 This ERV model is without coil.

▼ Control System Lineup

		Product series	ERV	
Control system				
Wired Controller	XK112	2 0 0 0 2 0 0 0	•	
Centralized Controller	CE53-24F(C)	6 0 0 0	0	

Note: • means standard, o means optional.



ERV+DX Coil*

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





5~10.5kW









Child lock



Easier maintainahility



Weekly timer



Centralized control

- 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.
- Efficient humidifying: Humidifying modules are built inside the units for a higher degree of comfort.
- Free cooling: When outdoor temperature is lower than the set temperature, units can automatically introduce the fresh outdoor air to make the room cooler.
- 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 cleanness; Negative pressure air supply: Different air flow volume can be set for the fresh air side and air discharge side to keep the indoor side under minor negative pressure, which will help prevent leakage of indoor pollutants. Balanced air supply: The fresh air side and air discharge side can be set with the same air flow volume (default).
- Linked control: Units can be connected to other indoor units in the same CAN and HBS networks for linked control.
- Cooling and heating functions: With fan coils, they have cooling and heating functions like common air conditioners.
- Multiple operation modes: Total heat exchange mode: The fresh air side and air discharge side can have heat exchange for efficient energy recovery. By-pass mode: Ventilation without heat exchange. Air discharge mode: Only air discharge side is turned on for ventilation.



Note*: This product series is under development. Gree reserves the right to modify the specifications without prior notice. Please confirm the final specifications with sales representatives.

Specifications

	Model			GMV-VSDR5PH/SA-S*1	GMV-VSDR8PH/SA-S*1	GMV-VSDR10PH/SA-S.1
Rated voltage			V	220-240		
Rated frequency			Hz	50/60		
Cooling capacity			kW	7.5	12.0	14.5
Heating capacity			kW	3.8	6.0	8.0
Power input			kW	0.30	0.50	0.66
Current input			А	2	4	4
Indoor unit			CFM	294	471	589
	Airilow volume	Airflow volume		500	800	1000
	ESP	Rated	Pa	150	150	150
	Thermal exchange efficiency	Thermal exchange efficiency		74	74	74
	Sound power level		dB(A)	40	46	48
	Dimension (WxDxH)	Outline	mm	1700×885×340	1800×1185×390	1800×1185×390
		Package	mm	1900×1085×540	2000×1385×590	2000×1385×590
	Net weight/Gross weig	Net weight/Gross weight		119/165	169/219	169/219
/entiduct	Outer diameter		mm	200	250	250
oading quantity	ling quantity 20'GP/40'GP/40'HQ		set	24/48/60	13/26/32	13/26/32

Note:*1 This product model is with coil and is under development.





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