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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-1809-05 (EU VERSION)



Distributor information







- GMV5 Mini & Slim
- GMV5 Home
- **GMV** Water
- GMV5 Heat Recovery
- Indoor Units
- Control System
- 125 ERV+DX Coil



GMV5E DC Inverter Multi VRF System with its high-efficient inverter compressors has four exciting features which are different from those found on traditional inverter air conditioners: excellent energy-saving effect, more reliable and precise operation, smarter network control, providing users with best air conditioning experience.

GMV5E





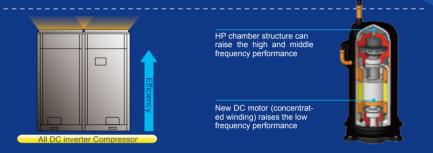
Key Features

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

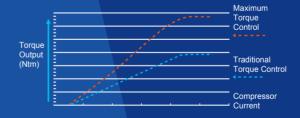
 All DC inverter compressor is used in this system. It can directly intake gas to reduce loss of overheat and improve efficiency.



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

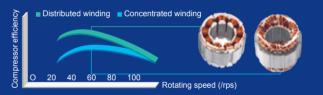


It can reduce energy loss caused by device winding so as to realize higher efficiency.

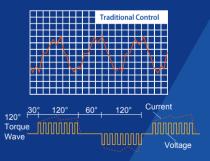


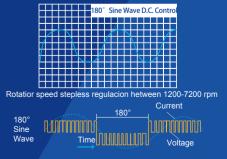
Low-frequency Torque Control It can directly control motor torque, through which fan motor can run at a low speed. Users will feel more comfortable while requirements of the system are also met.





 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.

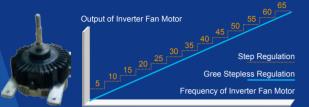






Sensorless DC Inverter Fan Motor

• 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



Note*: 16HP outdoor unit has different appearance for different model.

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	GMV5E DC Inverter CAN Network
	Software check	Hardware check, more reliable
Reliability	One unit's communication error may lead to a 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
Communication 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 Voltage and Operation Condition

 Working voltage range of GMV5E system has been improved to 320V~460V, which surpasses the national standard of 342V~420V. For places with unsteady voltage, this system can still be running well.



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



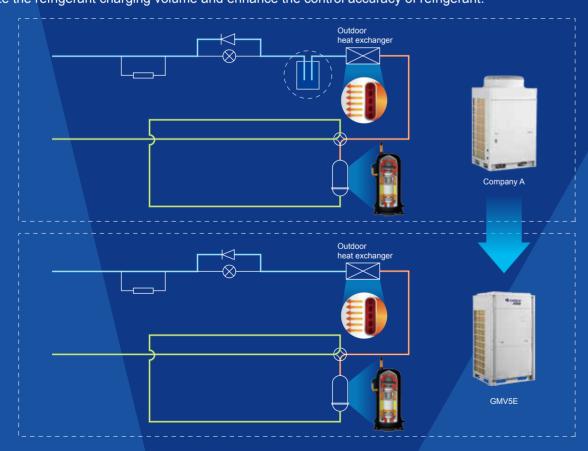
Wider Applicable Location

GMV5E can realize a combination of 4 outdoor unit modules connecting with as many as 80 indoor units. It's especially applicable for business building or hotels.



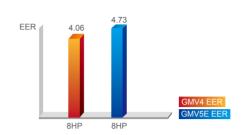
Refrigerant Storage and Distribution

The GMV5E 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, EER of GMV5E is up to 4.73 while COP is up to 5.56.





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

The GMV5E 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:

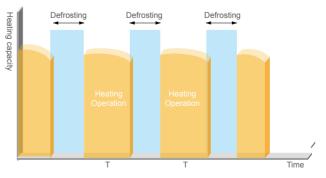
In compulsory energy-saving mode, the system will limit power output forcibly. Up to 20% of energy can be saved.



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.





Intelligent Defrosting Mode

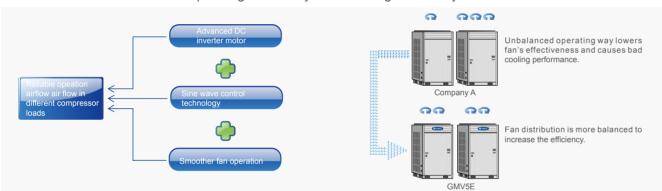
Accurate Intelligent Allocation Technology of Capacity and Output of Optimal Portion to Ensure Highest Efficiency

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

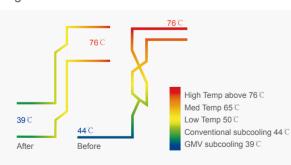
• Output of Optimal Portion to Ensure Highest Efficiency

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.

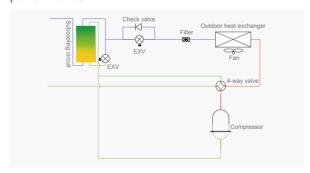


Sub-cooling Control Technology to Ensure Optimal Cooling and Heating

 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.

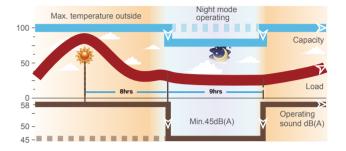
Comfortable Design for A Better Life

The GMV5E 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 least 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

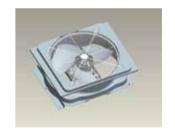
The system can also be set in this mode to ensure low noise as long as it is operating. Noise is as low as 45dB(A).

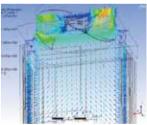


Quiet Control

1. Optimized Bossing Design After many times of CFD tests.

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.



Quiet Indoor Unit

The indoor unit of the GMV5E 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).



GMV5E (Indoor)

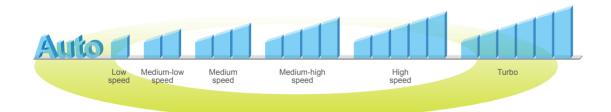
Fast Start-up in Heating

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

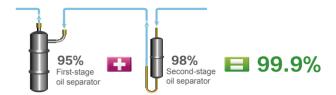
Indoor fan speed can be set in 7 levels by wired controller. They are auto, low speed, medium-low speed, medium speed, medium-high speed, high speed and turbo.



Excellent Performance Ensured by Advanced Technology

▼ Two-stage Oil Separation Control Technology (Patented)

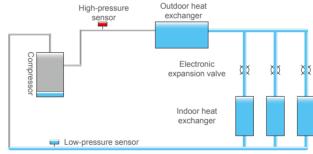
First-stage oil separator adopts a filtration expansion valve with separation efficiency of 98%; Second-stage oil separator will separate the remained 2% refrigerant oil with separation efficiency of 95%. General oil separation efficiency reaches 99.9%.



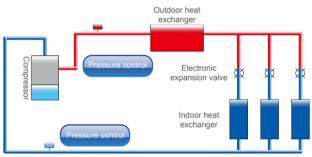
▼ Oil Return Control Technology

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.

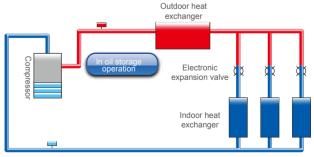


Oil storage status before oil return



Oil return operation

Specialized Compressor Oil Storage Control
 The system applies specialized compressor oil storage technology, which can control the lowest oil level for compressor operation.



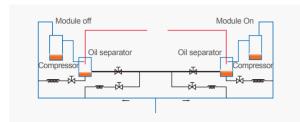
Oil storage operation



Oil Balance Control Technology

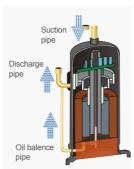
Oil Balance between Each Module

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

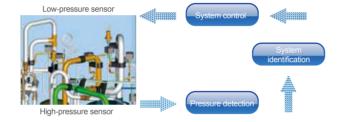
Refrigerant is taken into the compressor by the suction pipe and then runs through the cooling system. It can control the oil level and minimum oil volume required by each compressor so as to realize oil balance between each compressor.



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.

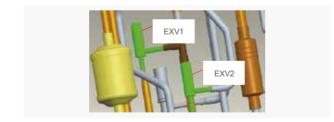


• Temperature Sensor Detection Control

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

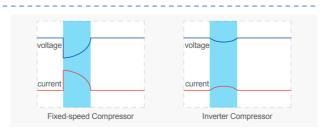
Multi Electronic Expansion Valves Control

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.

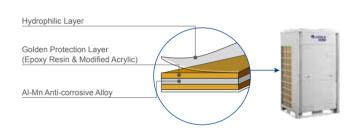


Notes: No.1 to 4 means the operation sequence of the system.

▼ Highly Anticorrosive Golden Fins

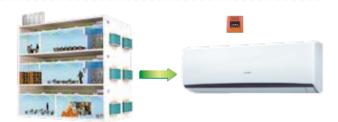
The primary material of Golden Fin is Al-Mn(Alumium-Manganese) anti-rust alloy, which is coated with the Golden Protection Layer(Components: Exoxy Resin & Modified Acrylic, Sillcon free), the anti-corrosice performance in salt-spray testing is 200%~300% higher than normal Blue Fin*.

Note: Satt-spary 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.



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 GMV5E 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 compressor and a second seco

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



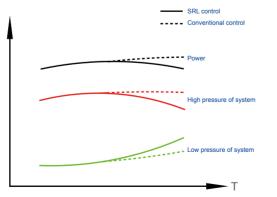
• Emergency Operation of Fan

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

GMV5E 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:

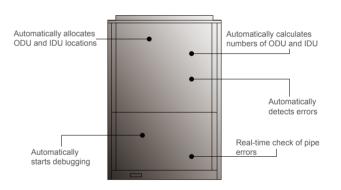
a: Distance between the first branch and the farthest indoor unit. b: Distance between the frist branch and the nearest indoor unit.

Engineering Debugging for Convenient Construction

1) GMV5E 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

185m 90n



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

- ①Button debugging of outdoor unit
- ②Special 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.



Debugging button

Three dual

Three dual 8 nixie tubes display debugging status with high readability





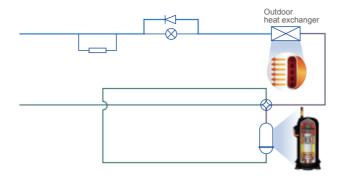
Note:* This debugger is under development.

(1)



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.



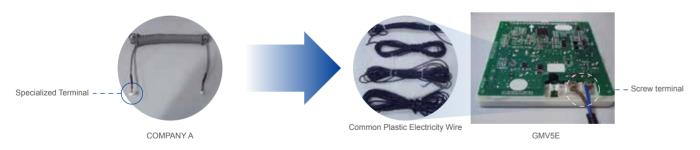
Inspection Window for Convenient Checking

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.

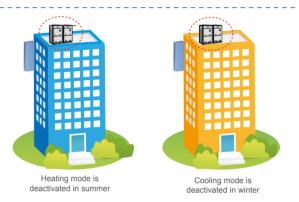


Professional Hotel Functions

Gree GMV5E 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.





GMV5E

Combination of GMV5E*

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

Note:
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.

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	28	33.5	40
Heating capacity	Nom.*		kW	25	31.5	31.5	37.5	45
Healing Capacity	Max.		kW	25	31.5	31.5	37.5	45
EER	Nom.*	Ducted	kW/kW	4.73	4.48	3.05	3.99	3.80
EER	INOITI.	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	INOIII.	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 comsumption of cool-	Nom.*	Ducted	kW	4.74	6.25	9.18	8.40	10.53
ing	INOITI.	Cassette	kW	6.85	9.18	10.53	11.96	13.2
Nom *	Nom.*	Ducted	kW	4.81	5.67	7.68	7.14	9.51
Power comsumption of heating	Ower combamption of fical	Cassette	kW	7.06	8.61	9.72	10.3	12.43
ling .	Max.		kW	4.81	5.67	7.68	7.14	9.51
Power supply			V/Ph/Hz			380-415V 3N~50/60Hz		
Max. circuit/Fuse current			А	16.1/20	20.9/25	20.9/25	24.7/32	28.8/40
Maximum drive IDU NO.			unit	13	16	16	19	23
Refrigerant charge volume			kg	5.9	9	6.7	8.2	9.8
Sound pressure level	Cooling		dB(A)	60	61	61	63	63
Sound power level	Cooling		dB(A)	85	86	85	80	86
	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 balance	е	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
Difficision(vvxDxH)	Package		mm	1010×840×1775	1010×840×1775	1010×840×1775	1420×840×1775	1420×840×1775
Net weight/Gross weight			kg	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			ONAL 450/A/A/5 X	ON 1/4 FON 1/14 V	ON 1/ 50 (14/14/5 V	ON 11 / 500 MA/F V	ON 11 CA FININA / F Y
	Model			GMV-450WM/E-X	GMV-450WM/E1-X	GMV-504WM/E-X	GMV-560WM/E-X	GMV-615WM/E-X
Capacity range			HP kW	16	16	18	20	22
Cooling capacity	Nom.*			45	45	50.4	56	61.5
Heating capacity	Nom.*		kW	50	50	50.4	56	61.5
Todaing outputity	Max.		kW	50	50	56.5	63	69
EER	Nom.*	Ducted	kW/kW	3.51	3.35	3.25	3.00	2.40
LLIX	140111.	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 comsumption of		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
Nom *	Ducted	kW	10.87	11.90	9.16	12.17	13.67	
Power comsumption of heating	on of Nom.*	Cassette	kW	14.04	15.29	12.00	14.00	16.18
ilcating	Max.		kW	10.86	11.90	14.10	16.60	18.90
Power supply			V/Ph/Hz			380-415V 3N~50/60Hz		
Max. circuit/Fuse current			А	33.2/40	33.2/40	45.4/50	51.1/60	59.2/60
Maximum drive IDU NO.			unit	26	26	29	33	36
Refrigerant charge volun	ne		kg	10.3	10.3	11.3	14.3	14.3
Sound pressure level	Cooling		dB(A)	63	63	63	63	64
Sound power level	Cooling		dB(A)	80	89	86	92	92
	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
	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
	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.



Specifications of GMV5E Combination

Model Mode			C	Capacity		Pov	ver Inpu	it		Airflow		Connect		Oil Balance	Min.	Max.	
Non- Non- May Non- Non- May Non- Non- Non- Non- Non- Non- Non- Non-	Model		Cooling	Неа	iting	Cooling	Hea	ting	Dimension(W×D×H)		ESP						Weight
CAM-SHOWNER 18.0 70.5 70.5 10.7 15.1 15.1 10.0 10.0 10.00 14.00		Supply	Nom.	Nom.	Max.	Nom.*	Nom.*	Max.				Liquid	Gas		Current	Current	
GAM-1300/MREX Real 7/25 7/25 13.78 15.18 15.18 15.18 17.1300778514055 14000 1400			kW	kW	kW	kW	kW	kW	mm	m³/h	Ра	mm	mm	mm	Α	Α	kg
GM-730WMEX FRA 819 880 2176 1480 197 (1958) 1430 1400 1970 (1958) 1400 82 41905 6018 6052 54.1 63 225190 GM-850WMEX GM-850WMEX GM-950WMEX GM-950WMEX BOS 30.0 1065 34.00 2081 20.0 227 (1304) 76581740) 16000 82 41905 6018 6052 74.5 60 235190 GM-1010WMEX GM-1010WMEX GM-1010WMEX GM-1010WMEX GM-1010WMEX GM-1010WMEX GM-1010WMEX GM-1010WMEX 115.0 115.0 105.0 34.0 36.1 24.5 23.0 28.1 28.0 4 (11340-76581740) 16000 GM-1010WMEX GM-1010WMEX 115.0 115.0 105.0 144.0 36.1 23.18 28.1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	GMV-680WWE-X		68.0	76.5	76.5	16.78	15.18	15.18	, ,		82	Ф15.9	Ф28.6	Ф9.52	49.7	63	235+360
GRAY-BOVIME-X GR	GMV-730WWE-X		73.0	81.5	81.5	19.07	16.54	16.53	,		82	Ф19.05	Ф31.8	Ф9.52	54.1	63	235+360
GM-SOVINNEX GM-SOVINNEX GM-SOVINNEX GM-GOVINNEX GM-GOV	GMV-785WWE-X		78.4	81.9	88.0	21.76	14.83	19.77	,		82	Ф19.05	Ф31.8	Ф9.52	65.6	80	235+360
GMA-GROWNEX GMA-GROWNEX GMA-GROWNEX GMA-TIDOWNEX GMA-TIDO	GMV-850WWE-X		84.0	87.5	94.5	24.92	17.84	22.27	,		82	Ф19.05	Ф31.8	Ф9.52	70.9	80	235+385
GM-100WMEX GM-110WMEX	GMV-900WWE-X		89.5	93.0	100.5	31.88	19.34	24.57	, ,		82	Ф19.05	Ф31.8	Ф9.52	74.5	80	235+385
GM-1100WMEX 101.5 106.5 11.5 101.5	GMV-960WWE-X		95.0	99.0	106.5	34.03	20.81	26.04	, ,		82	Ф19.05	Ф31.8	Ф9.52	78.2	80	285+385
GMM-1150WME-X GMM-1150WME-X GMM-130WME-X GM	GMV-1010WM/E-X		101.5	106.5	114.0	36.14	23.18	28.41	, ,		82	Ф19.05	Ф38.1	Ф9.52	82.4	100	360+385
GMM-1180WME-X GMM-125WME-X 17.5 17.5 13.20 44.30 25.84 35.50 (1340)-765+1740) \times 2 6000\times 2 22 210.5 603.1 49.52 103.6 12.5 335\times 2 335\	GMV-1065WWE-X		106.5	111.5	119.0	38.45	24.54	29.76	(1340×765×1740) ×2	16000×2	82	Ф19.05	Ф38.1	Ф9.52	86.8	100	360+385
GM-1256WME-X GM-1300WME-X GM-1400WME-X GM-1	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	98.3	125	360+385
GMX-1300WME-X GMX-1450WME-X GMX-1460WME-X GMX-1460WME-	GMV-1180WWE-X		117.5	117.5	132.0	44.30	25.84	35.50	(1340×765×1740) ×2	16000×2	82		Ф38.1	Ф9.52	103.6	125	385×2
GMX-1550WME-X GMX-1410WME-X Table Tabl									(930×765×1605)	11400+1							235+360
GMV-1410WME-X 140.0 149.0 156.5 46.85 31.68 36.90 1(1340×765×1605) 14000+ 14000+ 22 019.05 041.3 09.52 11.4 125 285×360 438 438 44.94 (1340×765×1740) ×2 16000×2 22 041.0 041.3 09.52 124.5 160 235×385 225×380 43.87 43.47 43.40×765×1740) ×2 16000×2 22 041.0 041.3 049.52 124.5 160 235×385 22 041.0 041.3 049.52 124.5 160 235×385 22 041.0 041.3 049.52 124.5 160 235×385 22 041.0 041.3 049.52 124.5 160 235×385 22 041.0 041.3 049.52 124.5 160 235×385 24 041.0 041.3 049.52 124.5 160 235×385 24 041.0 041.3 049.52 124.5 160 235×385 24 041.0 041.3 049.52 124.5 160 235×385 24 041.0 041.3 049.52 124.5 160 235×385 24 041.0 041.3 049.52 124.5 160 235×385 24 041.0 041.3 049.52 124.5 160 235×385 24 041.0 041.3 049.52 124.5 160 235×385 24 041.0 041.3 049.52 124.5 160 235×385 24 041.0 041.3 049.52 124.5 160 235×385 24 041.0 041.3 049.52 124.5 160 235×385 24 041.0 041.3 049.52 124.5 160 235×385 24 041.0 041.3 049.52 124.5 160 235×385 24 041.0 041.3 049.52 124.5 160 235×385 24 041.0 041.3 049.52 124.5 160 235×385 24 041.0 041.3 049.52 124.5 160 245×385	GMV-1350WM/E-X		134.5	143.0	150.5	44.70	30.21	35.43	(930×765×1605)	11400+	82	Ф19.05	Ф38.1	Ф9.52	107.7	125	235+360
GMV-1460WME-X GMV-1515WME-X GMV-1515WME-	GMV-1410WM/E-X		140.0	149.0	156.5	46.85	31.68	36.90	(1340×765×1605)	14000+	82	Ф19.05	Ф41.3	Ф9.52	111.4	125	285+360
GMV-1516WME-X GMV-156WME-X FV-3Ph 50/80H CMV-156WME-X FV-3Ph 50/80H CMV-1685WME-X GMV-1685WME-X GMV-1685WM	GMV-1460WM/E-X		145.5	149.0	163.5	50.55	31.51	41.17	(930×765×1605)	11400+	82	Ф19.05	Ф41.3	Ф9.52	124.5	160	235+385
GMV-1580WME-X S0/60H Z T65.5 160.5 175.5 59.66 34.48 44.94 \(\frac{1}{340 \times 765 \times 1740 \) \\ \times 2 16000 \times 2 160000 \times 2 1600000 \times 2 16000000 \times 2 1600000000000000000000000000000000000	GMV-1515WME-X	380~41	151.0	154.5	169.5	57.51	33.01	43.47	(930×765×1605)		82	Ф19.05	Ф41.3	Ф9.52	128.1	160	
GMV-1630WME-X 163.0 168.0 183.0 61.79 36.85 47.31 \(\phi(\frac{1}{340\times 765\times 1740} \) \(\times 2 \) 16000\(\times 2 \) 174.5 16000\(\times 2 \) 174.5	GMV-1580WM/E-X		156.5	160.5	175.5	59.66	34.48	44.94	,		82	Ф19.05	Ф41.3	Ф9.52	131.8	160	
GMV-1685WME-X 168.0 173.0 188.0 64.08 38.21 48.66 (1340×765×1740) ×3 16000×3 82 019.05 041.3 09.52 140.4 160 ×2 173.4 173.4 194.5 66.77 36.50 51.90 (1340×765×1740) ×3 16000×3 82 0419.05 041.3 09.52 151.9 160 360+385 20 20 20 20 20 20 20 2	GMV-1630WM/E-X	Z	163.0	168.0	183.0	61.79	36.85	47.31	,		82	Ф19.05	Ф41.3	Ф9.52	136.0	160	
GMV-1750WME-X GMV-180WME-X GMV-180WME-X GMV-180WME-X GMV-180WME-X GMV-180WME-X GMV-180WME-X GMV-1908WME-X GMV-2016WME-X GMV-2016	GMV-1685WM/E-X		168.0	173.0	188.0	64.08	38.21	48.66	(1340×765×1740) ×3	16000×3	82	Ф19.05	Ф41.3	Ф9.52	140.4	160	
GMV-1908WME-X 184.5 184.5 207.0 76.89 41.01 56.70 (1340×765×1740)×3 16000×3 82 019.05 041.3 09.52 160.8 180 385×3 190.5 199.0 213.5 63.37 42.38 52.03 (930×765×1605) 11400+	GMV-1750WM/E-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	151.9	160	
GMV-1908WWE-X 190.5 199.0 213.5 63.37 42.38 52.03 (930×765×1605) 11400+									,		_						
GMV-1908WWE-X 190.5 199.0 213.5 63.37 42.38 52.03 +(1340×765×1740) ×3 16000×3 82 Ф22.2 Ф44.5 Ф9.52 157.7 180 +385×2 (930×765×1605) +(1340×765×1740) ×3 16000×3 82 Ф22.2 Ф44.5 Ф9.52 169.2 180 235+386 +385×2 (930×765×1605) +(1340×765×1740) ×3 16000×3 82 Ф22.2 Ф44.5 Ф9.52 174.5 200 235+385 41.340×765×1740) ×3 16000×3 82 Ф22.2 Ф44.5 Ф9.52 174.5 200 235+385 41.340×765×1740) ×3 16000×3 82 Ф22.2 Ф44.5 Ф9.52 174.5 200 235+385 41.340×765×1740) ×3 16000×3 82 Ф22.2 Ф44.5 Ф9.52 174.5 200 235+385 41.340×765×1740) ×3 16000×3 82 Ф22.2 Ф44.5 Ф9.52 174.5 200 235+385 41.340×765×1740) ×3 16000×3 82 Ф22.2 Ф44.5 Ф9.52 174.5 200 235+385 41.340×765×1740) ×3 16000×3 82 Ф22.2 Ф44.5 Ф9.52 174.5 200 235+385 41.340×765×1740) ×3 16000×3 82 Ф22.2 Ф44.5 Ф9.52 174.5 200 235+385 41.340×765×1740) ×3 16000×3 82 Ф22.2 Ф44.5 Ф9.52 181.7 200 235+385 41.340×765×1740) ×3 16000×3 82 Ф22.2 Ф44.5 Ф9.52 185.4 200 235+385 41.340×765×1740) ×3 16000×3 82 Ф22.2 Ф44.5 Ф9.52 185.4 200 235+385 41.340×765×1740) ×3 16000×3 82 Ф22.2 Ф44.5 Ф9.52 185.4 200 235+385 41.340×765×1740) ×3 16000×3 82 Ф22.2 Ф44.5 Ф9.52 185.4 200 235+385 41.340×765×1740) ×3 16000×3 82 Ф22.2 Ф44.5 Ф9.52 189.6 200 ×3 41.340×765×1740) ×3 16000×3 82 Ф22.2 Ф44.5 Ф9.52 189.6 200 ×3 41.340×765×1740) ×3 16000×3 41.040×4	GMV-1845WWE-X		184.5	184.5	207.0	76.89	41.01	56.70	(1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		82	Ф19.05	Ф41.3	Ф9.52	160.8	180	
GMV-2016WME-X GMV-2016WME-X GMV-2016WME-X GMV-2072WME-X GMV-2128WME-X GMV-2184WME-X GMV-2240WME-X GMV-2295WME-X GMV-2295WME-X GMV-2350WME-X GMV-2350WME-X GMV-2405WME-X GM	GMV-1908WM/E-X		190.5	199.0	213.5	63.37	42.38	52.03	+(1340×765×1740) ×3	16000×3	82	Ф22.2	Ф44.5	Ф9.52	157.7	180	+385×2
GMV-2016WWE-X GMV-2072WWE-X GMV-2128WWE-X GMV-2128WWE-X GMV-2128WWE-X GMV-2240WWE-X GMV-2240WWE-X GMV-225WWE-X GMV-225WWE-X GMV-225WWE-X GMV-2240WWE-X GMV-225WWE-X GMV-2240WWE-X GMV-2240WWE-X GMV-2240WWE-X GMV-2240WWE-X GMV-2240WWE-X GMV-2240WWE-X GMV-225WWE-X GMV-2240WWE-X GMV-225WWE-X GMV-2405WWE-X GMV-2405	GMV-1962WM/E-X		195.9	199.4	220.0	66.06	40.67	55.27	+(1340×765×1740) ×3	16000×3	82	Ф22.2	Ф44.5	Ф9.52	169.2	180	+385×2
GMV-2128WWE-X GMV-2128WWE-X GMV-2240WWE-X GMV-2295WWE-X GMV-2350WWE-X GMV-2405WWE-X GM	GMV-2016WM/E-X		201.5	205.0	226.5	69.22	43.68	57.77	+(1340×765×1740) ×3	16000×3	82	Ф22.2	Ф44.5	Ф9.52	174.5	200	×3
GMV-2184WWE-X GMV-2184WWE-X 218.0 222.0 244.5 85.29 48.15 63.84 (1340×765×1740) ×3 16000×3 82 Φ22.2 Φ44.5 Φ9.52 181.7 200 ×3 GMV-2240WWE-X GMV-2240WWE-X 224.5 229.5 252.0 87.42 50.52 66.21 (1340×765×1740) ×3 16000×3 82 Φ22.2 Φ44.5 Φ9.52 185.4 200 285+385 ×3 GMV-2295WWE-X 229.5 234.5 257.0 89.71 51.88 67.56 (1340×765×1740) ×4 16000×4 82 Φ22.2 Φ44.5 Φ9.52 194.0 225 360+385 ×3 GMV-2350WWE-X 234.9 234.9 263.5 92.40 50.17 70.80 (1340×765×1740) ×4 16000×4 82 Φ22.2 Φ44.5 Φ9.52 205.5 225 360+385 ×3 GMV-2405WWE-X 240.5 240.5 270.0 95.56 53.18 73.30 (1340×765×1740) ×4 16000×4 82 Φ22.2 Φ44.5 Φ9.52 210.8 225 385×4	GMV-2072WM/E-X		207.0	210.5	232.5	76.18	45.18	60.07	+(1340×765×1740) ×3	16000×3	82	Ф22.2	Ф44.5	Ф9.52	178.1	200	×3
GMV-2240WWE-X GMV-2240WWE-X 218.0 222.0 244.5 85.29 48.15 63.84 +(1340×765×1740) ×3 16000×3 82 Φ22.2 Φ44.5 Φ9.52 185.4 200 ×3 GMV-2240WWE-X 224.5 229.5 252.0 87.42 50.52 66.21 (1340×765×1740) ×3 16000×3 82 Φ22.2 Φ44.5 Φ9.52 189.6 200 360+385 ×3 GMV-2295WWE-X 229.5 234.5 257.0 89.71 51.88 67.56 (1340×765×1740) ×4 16000×4 82 Φ22.2 Φ44.5 Φ9.52 194.0 225 360+385 ×3 GMV-2350WWE-X 234.9 234.9 263.5 92.40 50.17 70.80 (1340×765×1740) ×4 16000×4 82 Φ22.2 Φ44.5 Φ9.52 205.5 225 360+385 ×3 GMV-2405WWE-X 240.5 240.5 270.0 95.56 53.18 73.30 (1340×765×1740) ×4 16000×4 82 Φ22.2 Φ44.5 Φ9.52 210.8 225 385×4	GMV-2128WM/E-X		212.5	216.0	238.5	83.14	46.68	62.37	+(1340×765×1740) ×3	16000×3	82	Ф22.2	Ф44.5	Ф9.52	181.7	200	×3
GMV-2240WWE-X 224.5 229.5 252.0 87.42 50.52 66.21 +(1340×765×1740) ×3 16000×3 82 Ф22.2 Ф44.5 Ф9.52 189.6 200 ×3 GMV-2295WWE-X 229.5 234.5 257.0 89.71 51.88 67.56 (1340×765×1740) ×4 16000×4 82 Ф22.2 Ф44.5 Ф9.52 194.0 225 360+385 ×3 GMV-2350WWE-X 234.9 263.5 92.40 50.17 70.80 (1340×765×1740) ×4 16000×4 82 Ф22.2 Ф44.5 Ф9.52 205.5 225 360+385 ×3 GMV-2405WWE-X 240.5 240.5 270.0 95.56 53.18 73.30 (1340×765×1740) ×4 16000×4 82 Ф22.2 Ф44.5 Ф9.52 210.8 225 385×4	GMV-2184WM/E-X		218.0	222.0	244.5	85.29	48.15	63.84	+(1340×765×1740) ×3	16000×3	82	Ф22.2	Ф44.5	Ф9.52	185.4	200	×3
GMV-2295WWE-X 229.5 234.5 257.0 89.71 51.88 67.56 (1340×765×1740) ×4 16000×4 82 Φ22.2 Φ44.5 Φ9.52 194.0 225 ×3 GMV-2350WWE-X 234.9 234.9 263.5 92.40 50.17 70.80 (1340×765×1740) ×4 16000×4 82 Φ22.2 Φ44.5 Φ9.52 205.5 225 360+385 ×3 GMV-2405WWE-X 240.5 240.5 270.0 95.56 53.18 73.30 (1340×765×1740) ×4 16000×4 82 Φ22.2 Φ44.5 Φ9.52 210.8 225 385×4				229.5					+(1340×765×1740) ×3	16000×3							×3
GMV-2405WWE-X 234.9 234.9 263.5 92.40 50.17 70.80 (1340×765×1740) ×4 16000×4 82 Φ22.2 Φ44.5 Φ9.52 205.5 225 ×3 GMV-2405WWE-X 240.5 240.5 270.0 95.56 53.18 73.30 (1340×765×1740) ×4 16000×4 82 Φ22.2 Φ44.5 Φ9.52 210.8 225 385×4																	×3
									, ,								×3
	GMV-2460WM/E-X		246.0			102.53			(1340×765×1740) ×4	16000×4		Ф22.2	Ф44.5	Ф9.52	210.6	225	385×4

GMV5 Mini & Slim







^{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.

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

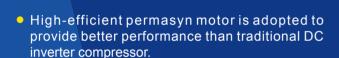
Key Features

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.

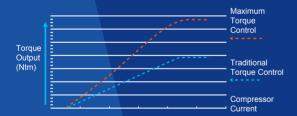
All DC Inverter Compressor

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





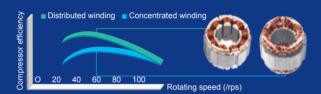
It can reduce energy loss caused by device winding so as to realize higher efficiency.



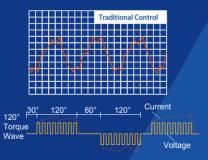
Low-frequency Torque Control It can directly control motor torque, through which fan motor can run at a low speed. Users will feel more comfortable while requirements of the system are also met.

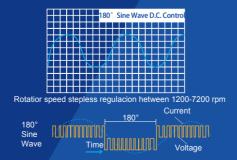






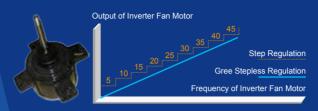
180° Sine Wave DC Speed Varying Technology
It can satisfy various places' demands for
different temperature and is able to save a great
deal of electricity and provide users with utmost
comfort at the same time.





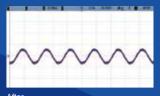
Sensorless DC Inverter Fan Motor

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



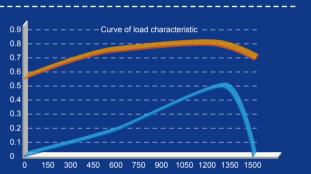
 Sensorless control technology guarantees lower noise, less vibration and steadier operation.





Sensorless DC Inverter Fan Motor

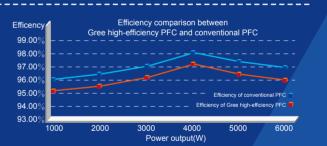
The indoor unit adopts high-efficiency brushless DC motor. Compared with conventional motor, the efficiency of brushless DC motor is improved by more than 30%. Meanwhile, the design of evaporation capacity flow is optimized through emulation software of refrigeration system and the heat exchange amount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



High-efficiency Digital PFC Control *

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

*This feature is applicable for GMV5 Mini only.



Wider Operation Condition Range

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



Comfortable and Quiet Model

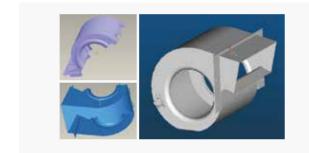
Low Noise of Outdoor Unit

- 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 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

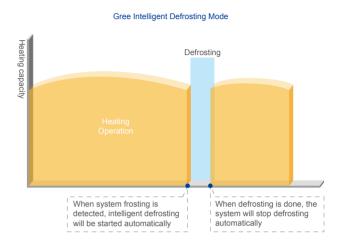
Intelligent temperature control technology is adopted for super fast cooling or heating, so that indoor temperature will reach set temperature more quickly.



Comfortable Heating

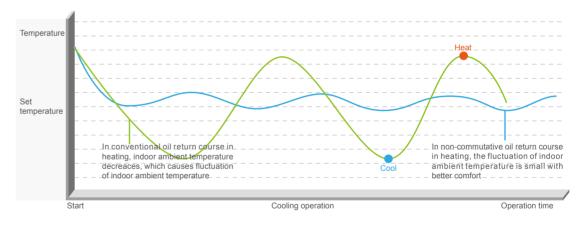
Advanced intelligent defrosting mode is adopted. Gree advanced intelligent defrosting mode will choose the best defrosting way according to outdoor temperature and operation status to realize intelligent defrosting, effectively improving heating effect and performance. While in traditional defrosting mode, timing defrosting is adopted, which not only affects comfort but also reduces energy efficiency.





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.

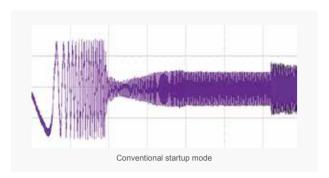


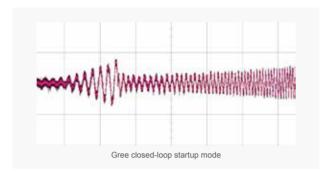


Reliable Operation

Compressor Closed-loop Startup Technology with More Reliable Startup

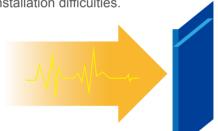
The self-innovative closed-loop startup control technology is adopted. Thanks to this technology, the startup current is small and startup is more reliable.





▼ 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.







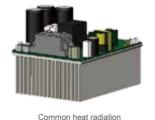
Advanced High-frequency Transformer with More Stable Voltage

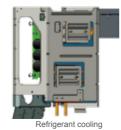
- The advanced switching power supply is adopted with lower power consumption and higher power efficiency.
- Wide voltage-regulation range ensures stable voltage output when the voltage of grid fluctuates.
- Compared with conventional transformer, the size of high-frequency transformer is small and the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

Linear transformer Linear power supply (Linear inverter + Voltage-regulation chip) Linear power supply (High-frequency inverter + Switching chip)

▼ 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.





Easy Installation and Transportation

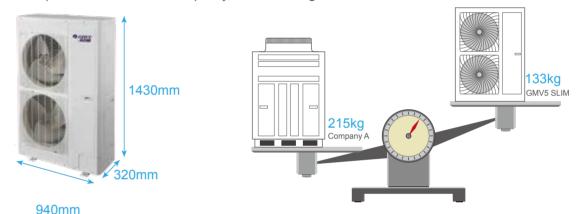
▼ Ultra-long Connection Pipe for More Convenient Connection

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

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

▼ Top Advanced Light and Compact Size

GMV5 slim adopts small and compact size design. The dimension 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.



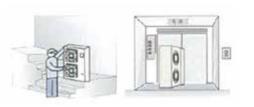
Easy Installation with Lower Construction Cost

The outdoor unit of GMV5 slim is with small size and light weight. No 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.



^{*:} This feature is applicable for GMV5 slim only.

Outdoor Units Lineup

GMV5 Mini

Product Model GMV-80WL/C-T 3.5 GMV-100WL/C-T GMV-121WL/C-T GMV-141WL/C-T

GMV5 Mini

HP	Model	Product
4	GMV-120WL/C-T GMV-120WL/C-X	0 -
5	GMV-140WL/C-T GMV-140WL/C-X	0
6	GMV-160WL/C-T GMV-160WL/C-X	

GMV5 Slim

HP	Model	Product
8	GMV-224WL/C-X	0-
10	GMV-280WL/C-X	•
12	GMV-335WL/C-X	

GMV5 Mini

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

	Model		GMV-80WL/C-T	GMV-100WL/C-T	GMV-121WL/C-T	GMV-141WL/C-T
Capacity range		HP	3	3.5	4	5
O-marit.	Cooling	kW	8	10	12.1	14.1
Capacity	Heating	kW	9	11	13	16
EER		W/W	3.90	3.70	3.51	3.60
COP		W/W	4.74	4.40	4.81	3.85
Power supply V/Ph/Hz				220-240/1/50 & 208-230/1/60		
Max Circuit/Fuse Current		A	25	25	32	40
Dougr compumption	Cooling	kW	2.05	2.7	3.45	3.92
Power comsumption	Heating	kW	1.9	2.5	2.7	4.16
Maximum drive IDU NO.		unit	4	5	6	8
Refrigerant Charge volume		kg	1.8	1.8	2	3.3
Sound power level		dB(A)	68	69	70	58
0	Liquid	mm	Ф9.52	Ф9.52	Ф9.52	Ф9.52
Connecting pipe	Gas	mm	Ф15.9	Ф15.9	Ф15.9	Ф15.9
D: : (M.D.II)	Outline	mm	980×360×790	980×360×790	980×360×790	940x460x820
Dimension(WxDxH)	Package	mm	1097x477x937	1097x477x937	1097x477x937	1023x563x973
Net weight/Gross weight		kg	80/90	80/90	85/95	98/108
I and the second to	40' GP	set	96	96	96	88
Loading quantity	40' HQ	set	96	96	96	88

(1)The ODU operation temperature range is -5~52 C in cooling and -20~27 C in heating. (2)Model GMV-141WL/C-T: Heat radiation by refrigerant.

	Model		GMV-120WL/C-T	GMV-140WL/C-T	GMV-160WL/C-T
Capacity range		HP	4	5	6
	Cooling	kW	12.1	14	16
Capacity	Heating	kW	14	16.5	18
ER		W/W	3.99	3.90	3.37
COP		W/W	4.28	4.18	3.87
Power supply V/Ph/Hz				220-240/1/50 & 208-230/1/60	
Max Circuit/Fuse Current		A	32	40	40
	Cooling	kW	3.03	3.59	4.75
Power comsumption	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 power level		dB(A)	68	69	69
	Liquid	mm	Ф9.52	Ф9.52	Ф9.52
Connecting pipe	Gas	mm	Ф15.9	Ф15.9	Ф19.1
	Outline	mm	900×340×1345	900×340×1345	900×340×1345
Dimension(WxDxH)	Package	mm	998x458x1500	998x458x1500	998x458x1500
Net weight/Gross weight kg			112/123	112/123	112/123
40' GP		set	57	57	57
_oading quantity	40' HQ	set	57	57	57

Note: (1)The ODU operation temperature range is -5~52 $^{\circ}$ C in cooling and -20~27 $^{\circ}$ C in heating.

(2) Heat radiation by refrigerant.

50Hz&60Hz (380~415V)

	Model		GMV-120WL/C-X	GMV-140WL/C-X	GMV-160WL/C-X
Capacity range		HP	4	5	6
0	Cooling	kW	12.1	14	16
Capacity	Heating	kW	14	16.5	18
EER		W/W	3.99	3.90	3.37
COP		W/W	4.28	4.18	3.87
Power supply V/Ph/Hz				380-415/3/50&380-415/3/60	
Max. Circuit/Fuse Current		A	16	16	16
	Cooling	kW	3.03	3.59	4.75
Power comsumption	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 power level		dB(A)	68	69	69
0	Liquid	mm	Ф9.52	Ф9.52	Ф9.52
Connecting pipe	Gas	mm	Ф15.9	Ф15.9	Ф19.1
Dimension/MADAI)	Outline	mm	900×340×1345	900×340×1345	900×340×1345
Dimension(WxDxH)	Package	mm	998x458x1500	998x458x1500	998x458x1500
Net weight/Gross weight kg			122/133	122/133	122/133
looding quantity	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.

GMV5 SLIM

MV5 SLIM 50Hz&60Hz

Model			GMV-224WL/C-X	GMV-280WL/C-X	GMV-335WL/C-X	
Capacity range		HP	8	10	12	
0	Cooling	kW	22.4	28	33.5	
Capacity	Heating	kW	24	30	35	
EER		W/W	3.66	3.6	3.5	
COP		W/W	4.9	4.9	4.9	
Power supply		V/Ph/Hz	380-415,3,50/60Hz	380-415,3,50/60Hz	380-415,3,50/60Hz	
Max. Circuit/Fuse Current		A	17.20	22.4	24.5	
Dower compumption	Cooling	kW	6.12	7.78	9.57	
Power comsumption	Heating	kW	4.9	6.12	7.14	
Maximum drive IDU NO.		unit	13	17	20	
Refrigerant Charge volume		kg	5.5	7.1	8	
Sound power level		dB(A)	74	74	76	
0	Liquid	mm	9.52	9.52	12.7	
Connecting pipe	Gas	mm	19.05	22.2	25.4	
Discoursian (MA-Da-U)	Outline	mm	940x320x1430	940x460x1615	940x460x1615	
Dimension (WxDxH)	Package	mm	1038x438x1580	1038x578x1765	1038x578x1765	
Net weight/Gross weight		kg	133	166	177	
Looding quantity	40' GP	set	56	44	44	
Loading 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.

GMV5 Home





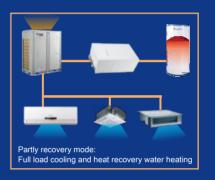
Key Features

Five Basic Modes

Unique five-mode operation is a breakthrough in traditional heat recovery technology where heating and water-heating cannot be achieved at the same time.

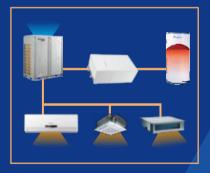
Cooling + Water Heating
When the system is operating with both Indoor Air Cooling Mode and Water Heating Mode, it can recover the wasted condensing heat to generate hot water which is free of charge, and lowers the heat pollution to atmosphere as well.







Heating + Water Heating
The outdoor unit can absorb the heat from outdoor ambient air and operate with Indoor Air Heating Mode and Water Heating Mode at the same time.



3 Cooling Only



4 Heating Only



Water Heating Only



Auto Heat Recovery in Cooling

When the indoor units are set in cooling mode, the heat which should be discharged into the environment is transferred to hot water. While you are enjoying the coolness brought by the air conditioner in summer, you can also enjoy free hot water. Meanwhile, the condensation effect of water tank is better than air-cooled outdoor unit. System high pressure is reduced and energy consumption is reduced by 10%.



When the indoor units are in cooling mode, the system will recover residual heat automatically for heating water.

Note: this function is defaulted on when ex-factory.

3 Super Function

Air Source Heat Pump Technology



Heat Pumps take thermal energy from the outside air. In order to take energy from the air the heat pump needs a bit of energy to startwith:GMV5 Home requires only 1 kW of electricity to pump over 4 kW of heat into your home. In other words, extracting heat from air sources requires just 1kW of electrical input in order to generate over 4kW of heating output, more than 80% of the heat produced by GMV5 Home comes from the outside air and is free of charge.

Heat Recovery Technology



Thanks to the perfect technology of Heat Recovery, during cooling operation, the condensing heat is recovered and reused to generate hot water for domestic use, which is free of charge.

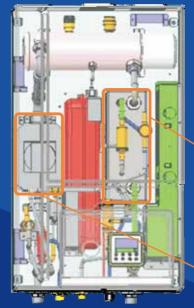


Plate heat exchanger, efficiency improved by 5%.

DC inverter water pump, high efficiency and energy-saving.

All DC Inverter Technology

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.

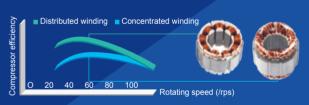
All DC Inverter Compressor

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



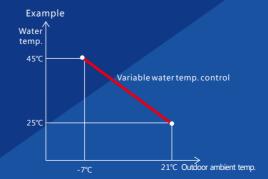


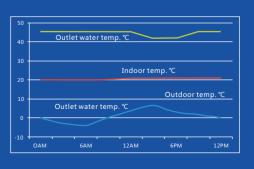
High-efficient permasyn motor is adopted to provide better performance than traditional Dcinverter compressor.



Auto Control Technology of Water Temperature

The auto control technology of water temperature can realize auto adjustment of floor heating water supply temperature, maintain stable indoor temperature, prevent over-cooling or over-heating and ensure the comfort of user.



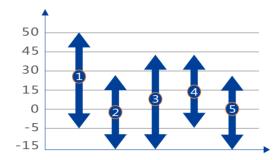


31/32

▼ Wide Range of Operation Condition

Outdoor operation temperature range is improved to -5°C~50°C in cooling and -15°C~24°C in heating.

	Mode	Outdoor Condition(DB℃)
1	Cooling	-5~50
2	Heating	-15~24
3	Water heating	-15∼43
4	Cooling and water heating	-5∼43
5	Heating and water heating	-15~24



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

The GMV5 Home 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.

*Note: This function is for the outdoor unit of 22.4kW and 28kW only



Sunflower Function

Sunflower function is adopted. Water will be heated when outdoor ambient temperature is the highest for saving energy.



3D Heat Supply Technology

"Heating + floor heating" mode

"Air conditioner+floor heating" in the same room can be turned on simultaneous.

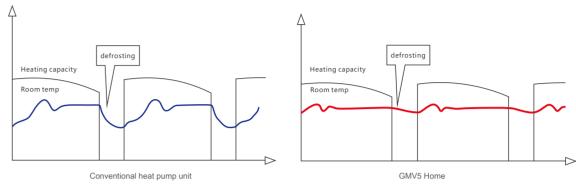
*Note:This function is available when these two modes are turned on in just a few rooms.





Intelligent Water Tank Defrosting Technology

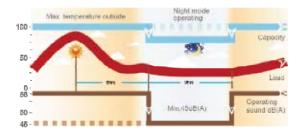
During defrosting of conventional unit, indoor unit will switch to low pressure side(indoor heat getting) and room temperature will decrease by $4\sim6$ °C after finishing defrosting; GMV5 Home adopts creative intelligent water tank defrosting technology. When the heat in external coil water tank is sufficient for defrosting, heat will be got from external coil water tank automatically during defrosting. Indoor temperature fluctuation is within 2 °C with no flow noise of indoor unit, which greatly improves heating comfort.



Outdoor Unit Quiet Mode and Quiet Control

Quiet at night

The system can memorize and judge the highest outdoor temperature. When the system enters low load operation at night, the system will enter quiet mode operation automatically. According to the requirements of actual application, the system can be set in nine quiet modes. For example, the unit will enter night operation mode automatically after operating for 8 hours and resume normal operation mode after 9 hours.



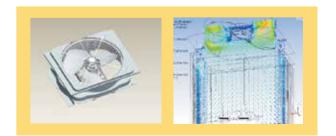
Quiet at compulsion

In some applications with high requirement on noise (such as villas, resorts), you can set the unit in forced quiet mode to ensure the unit operate in low noise mode in anytime. Forced quiet mode has three options, in which noise is as low as 45dB(A).



Quiet Control-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 3~5dB(A).



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.

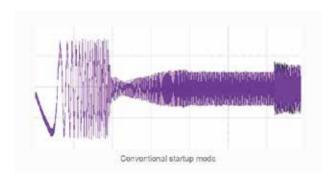
Performance Index	Company A Multi-VRF Network	GMV5 Home DC Inverter CAN Network
Reliability	Software check	Hardware check, more reliable
Reliability	One unit's communication error may lead tabelereshed breakdown of the whole network	If one unit has errors, it will exit from the network without any influence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

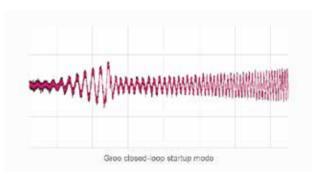
The non-polar CAN communication technology is applied to support flexible wiring installation, greatly reducing construction difficulties.



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

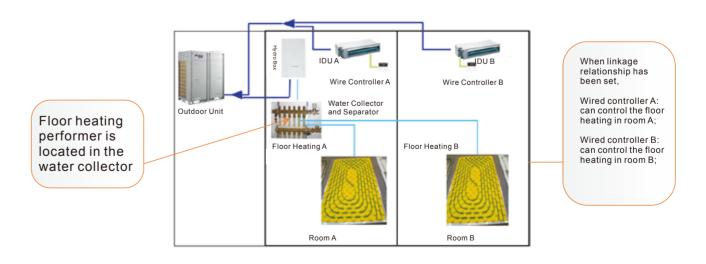
The latest CAN bus communication technology is adopted, with non-polar communication and high anti-interference ability. Common communication wire can meet the communication demand with no need of specialized shielded wire. The customers can buy the communication wire by themselves, greatly reducing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



Independent Control Technology

IDU wired controller can be linked with floor heating performer:

- IDU wired controller can independently control the startup and stoppage of floor heating in corresponding room;
- The unit can detect indoor ambient temperature directly to control the startup and stoppage of floor heating in corresponding room. Compared with previous water heater, it is more energy-saving and capable of providing more comfort.



▼ Intelligent Floor Heating Control Technology

The hydro box is equipped with the interface for floor heatingperformer(single phase 220V~), which can be connected with floor heating performer; the wired controller of IDU can control the floor heating performers in the room and the user doesn't need to buy floor heating temperature controller.



Intelligent Debugging for Convenient Construction

The hydro box is equipped with the interface for floor heatingperformer(single phase 220V~), which can be connected with floor heating performer; the wired controller of IDU can control the floor heating performers in the room and the user doesn't need to buy floor heating temperature controller.

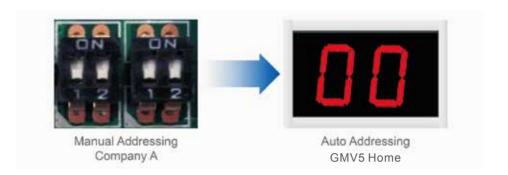
GMV5 Home has five auto debugging features:

- Auto location of IDU and ODU addresses;
- Auto detection of IDU and ODU quantity;
- Auto detection of errors;
- Auto startup of debugging;
- Real-time judgment of pipe errors.



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.







GMV5 Home

GMV5 Home is a new generation of multi VRF system developed by Gree, integrating "central air conditioning + hot water + floor heating.



Outdoor Unit

















copper



Compact



efficiency



Wide voltage range



Easier maintşrinabilit

	Nominal operating condition(temperature)							
Iteml	Outdoor o	condition	Indoor condition		Water			
	DB(℃)	WB(℃)	DB(℃)	WB(℃)	Start(°C)	End(℃)		
Cooling	35	24	27	19	1	1		
Heating	7	6	20	15	1	1		
Hot water	20	15	1	/	15	52		

	Mode	Outdoor Condition(DB C)
	Cooling	-5~50
Operation range	Heating	-15~24
Operation range	Water heating	-15~43
	Cooling and water heating	-5~43
	Heating and water heating	-15~24

Outdoor Unit

	Model		GMV-S120WL/A-S	GMV-S140WL/A-S	GMV-S160WL/A-S	GMV-S224W/A-X	GMV-S280W/A-X
Capacity	Cooling	kW	12.1	14	16	22.40	28.00
Capacity	Heating	kW	14	16.5	18.5	25.00	31.50
EC	OP	kW/kW	1	1	1	7	7
Power	supply	V/Ph/Hz	220-240V~1Ph~50/60Hz	220-240V~1Ph~50/60Hz	220-240V~1Ph~50/60Hz	380-415V~3Ph~50/60Hz	380-415V~3Ph~50/60Hz
Refrigerant Cl	narge volume	kg	5	5	5	10.50	11.00
Detect course	Cooling	kW	3.05	3.98	4.85	5.86	8.43
Rated power	Heating	kW	3.3	4.1	4.67	4.98	7.52
input	Water Heating	kW	3.3	3.8	4.2	5.00	5.20
Airflow	Airflow volume		6000	6300	6600	14000	14000
Allilow			3531	3708	3884	8239	8239
Sound pre	ssure level	dB(A)	55	56	58	57	58
	Gas	mm	Ф15.9	Ф15.9	Ф19.05	Ф19.05	Ф22.2
Connecting	Liquid	mm	Ф9.52	Ф9.52	Ф9.52	Ф9.52	Ф9.52
pipe diameter	Gas (high pressure)	mm	Ф12.7	Ф12.7	Ф12.7	Ф15.9	Ф15.9
Dimension	Outline	mm	900x340x1345	900x340x1345	900x340x1345	1340x765x1605	1340x765x1605
(WxDxH)	Package	mm	998x458x1500	998x458x1500	998x458x1500	1420x840x1775	1420x840x1775
Net weight/	Gross weight	kg	113/123	113/123	113/123	295/310	295/310
Loading	40' GP	set	57	57	57	16	16
quantity	40' HQ	set	57	57	57	16	16

Water Tank

1	Model		SXVD200LCJ/A-K	SXVD300LCJ/A-K	
Tank volume L		L	200	300	
Max. working pr	essure	Мра	0.7	0.7	
Auxiliary electrica	I heater power input	kW	3.0	3.0	
Power supply		V-Ph-Hz	220~240V-	1Ph-50Hz	
	Thickness(inner)	mm	1.5	1.5	
	Thickness(external)	mm	50	45	
Dimension	Outline diameter	mm	540	620	
	Outline height	mm	1595	1620	
	Package(WxDxH)	mm	625 1620 630	705 1645 710	
Net/Gross weigh	nt	kg	68/77	82/92	
	Circular pipe	mm	DN20	DN20	
Outer diameter	Cold water pipe	mm	DN15	DN15	
	Hot water pipe	mm	DN15	DN15	
Loading quantity	40'GP/40'HQ	set	78/104	63/63	

Model			SXVD200LCJ2/A-K	SXVD300LCJ2/A-K	
Tank volume L		L	200	300	
Max. working pr	essure	Mpa	0.7	0.7	
Auxiliary electrica	I heater power input	kW	3.0	3.0	
Power supply		V-Ph-Hz	220~240V	-1Ph-50Hz	
	Thickness(inner)	mm	1.5	1.5	
	Thickness(external)	mm	50	45	
Dimension	Outline diameter	mm	540	620	
	Outline height	mm	1595	1620	
	Package(WxDxH)	mm	625 1620 630	705 1645 710	
Net/Gross weigh	nt	kg	71/80	87/97	
	Circular pipe	mm	DN20	DN20	
Outer diameter	Cold water pipe	mm	DN15	DN15	
	Hot water pipe	mm	DN15	DN15	
Loadingquantity	40'GP/40'HQ	set	78/104	63/63	

Hydro Box

Model				NRQD16G/A-S	
Heating capac	city		kW	4.5(3.6-16)	
Dimension		Outline	mm	500 919 328	
(WDH)		Package	mm	1155 605 385	
Power supply			Ph/V/Hz	1Ph/220~240V/50/60Hz	
		Gas	mm	Ф15.9	
Connecting	to ODU	Liquid	mm	Ф9.52	
pipe diameter		Gas(high pressure)	mm	Ф12.7	
	to water tank		mm	Ф25	
		Туре		PB-2.5/11-A	
		Power input	kW	0.08-0.14	
Water pump		Water flow	L/h	1700.00	
		vvaler now	GPM	7.48	
		Delivery lift	m	6.00	
Net weight/Gr	oss weigh	nt	kg	56/62	
Loading quant	tity	40'GP/40'HQ	set	190/228	

Hot Water Converter

	N	Model		NRZ16G/A-S			
Heating capacity			kW	4.5(2.8~5.6)			
Dimension		Outline	mm	370 135 485			
(WDH)		Package	mm	648 473 225			
Power supply			Ph/V/Hz	1Ph 220 ~ 240V 50/60Hz			
0			Gas	mm	Ф15.9		
Connecting	to ODU	Liquid	mm	Ф9.52			
pipe diameter		Gas(high pressure)	mm	Ф12.7			
Net/Gross Weight			kg	8.5/13.5			
Loading quant	ity	40'GP	set	840/924			
			kg	8.5/13.5			

Water Tank

Model		SXD200LCJW/C1-K
Capacity	L	185
Power Supply for Electric Heater	-	220V-240V~50Hz
Input Power for Electric Heater	W	1500
Outline Dimensions(W x D x H)	mm	545 545 1919
Package Dimensions(W x D x H)	mm	2009 656 625
Water Tank Gross/Net Weight	kg	60/52
Outer Size of Connection Pipe	mm	Ф6, Ф9.52

- * 1:The hot water converter is only match with the outdoor unit model of GMV-S(120~160)WL/A-S.
 * 2: The hot water converter is only match with the water tank model of SXD200LCJW/C1-K.



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



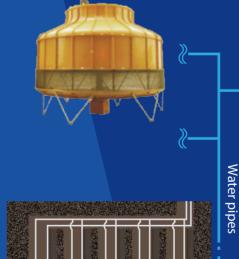






Ground Water

Water system

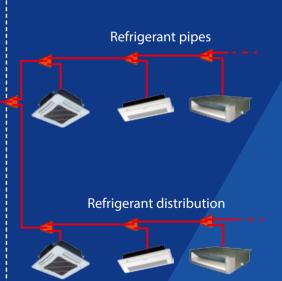


Main unit



Installed indoors

Refrigerant system

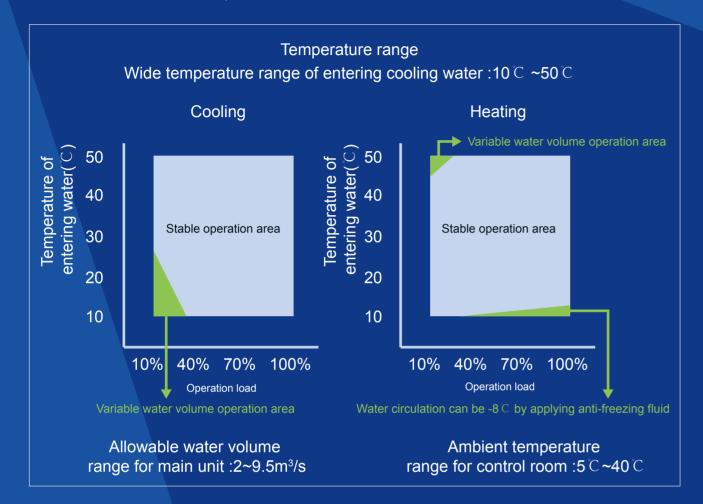




Same as multi VRF system

Wide Operating Range

Wide range for water entering the water side heat exchanger: 10~50 °C; Water flow range of the main unit: 2~9.5m³/h, suitable in most of the places across the nation.

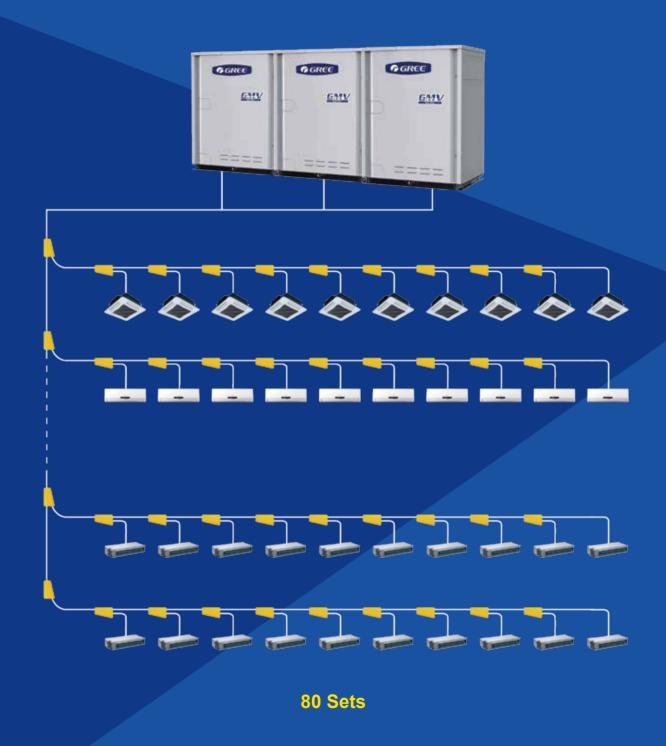


Large Capacity Design

• 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.



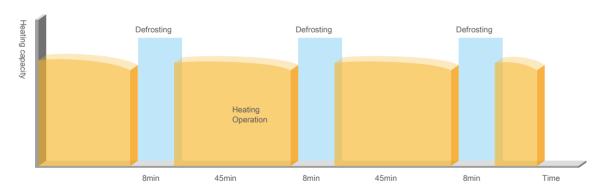
Operating in Turns, for Longer Service Life

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.

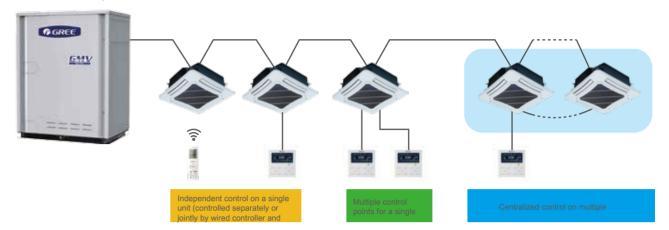




GMV Water

Completely New CAN Network Control

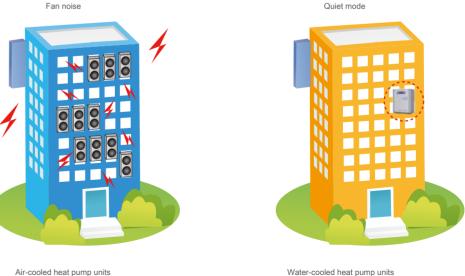
Same as GMV5, GMV Water adopts CAN communication, which has greatly improved the networking performance. It can be used in perfect combination with GMV5 indoor units.



- 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.











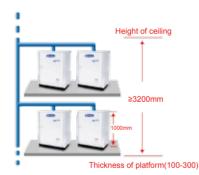
Stable operation under all kinds of weather

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

GMV-W448WWM-X GMV-W560WWM-X GMV-W670WWM-X GMV-W670WWM-X GMV-W728WWM-X GMV-W784WWM-X GMV-W895WWM-X GMV-W950WWM-X GMV-W1005WMA-X GMV-W1005WMA-X GMV-W1120WMA-X GMV-W1120WMA-X GMV-W1120WMA-X GMV-W1120WMA-X GMV-W1120WMA-X GMV-W1120WMA-X GMV-W1120WMA-X GMV-W1120WMA-X GMV-W1120WMA-X	Model	GMV-W224WWA-X	GMV-W280WMA-X	GMV-W335WWA-X
GMV-W560WWA-X GMV-W615WWA-X GMV-W728WWA-X GMV-W784WWA-X GMV-W840WWA-X GMV-W895WWA-X GMV-W950WWA-X GMV-W1005WWA-X GMV-W1005WWA-X GMV-W1175WWA-X GMV-W1120WWA-X GMV-W1120WWA-X	GMV-W448WM/A-X	••		
GMV-W615WWA-X GMV-W670WWA-X GMV-W728WWA-X GMV-W840WWA-X GMV-W895WWA-X GMV-W950WWA-X GMV-W1005WWA-X GMV-W1120WWA-X GMV-W1120WWA-X GMV-W1120WWA-X GMV-W1230WWA-X	GMV-W504WM/A-X	•	•	
GMV-W728WMA-X GMV-W784WMA-X GMV-W840WMA-X GMV-W950WMA-X GMV-W1005WMA-X GMV-W1120WMA-X GMV-W1120WMA-X GMV-W1120WMA-X	GMV-W560WM/A-X		••	
GMV-W728WWA-X GMV-W840WWA-X GMV-W895WWA-X GMV-W950WWA-X GMV-W1005WWA-X GMV-W1120WWA-X GMV-W1120WWA-X GMV-W1120WWA-X GMV-W1230WWA-X	GMV-W615WM/A-X		•	•
GMV-W784WW/A-X GMV-W895WW/A-X GMV-W950WW/A-X GMV-W1005WM/A-X GMV-W1120WW/A-X GMV-W1120WW/A-X GMV-W1120WW/A-X GMV-W1120WW/A-X GMV-W11230WW/A-X	GMV-W670WM/A-X			••
GMV-W895WWA-X GMV-W950WWA-X GMV-W1005WWA-X GMV-W1064WWA-X GMV-W1120WWA-X GMV-W1120WWA-X GMV-W1125WWA-X	GMV-W728WM/A-X	••	•	
GMV-W8950WMA-X GMV-W1005WMA-X GMV-W1064WMA-X GMV-W1120WMA-X GMV-W1175WMA-X GMV-W1230WMA-X GMV-W1285WMA-X	GMV-W784WM/A-X	•	••	
GMV-W1005WWA-X GMV-W1064WWA-X GMV-W1120WWA-X GMV-W1175WWA-X GMV-W1230WWA-X GMV-W1285WWA-X	GMV-W840WM/A-X		•••	
GMV-W1064WWA-X GMV-W1120WWA-X GMV-W1175WWA-X GMV-W1230WWA-X GMV-W1285WWA-X	GMV-W895WM/A-X		••	•
GMV-W1064WMA-X GMV-W1120WMA-X GMV-W1175WMA-X GMV-W1230WMA-X GMV-W1285WMA-X	GMV-W950WM/A-X		•	••
GMV-W1120WWA-X GMV-W1175WWA-X GMV-W1230WWA-X GMV-W1285WWA-X	GMV-W1005WWA-X			•••
GMV-W1175WWA-X GMV-W1230WWA-X GMV-W1285WWA-X	GMV-W1064WMA-X	•	•••	
GMV-W1230WWA-X GMV-W1285WWA-X • • • •	GMV-W1120WWA-X		••••	
GMV-W1285WWA-X	GMV-W1175WWA-X		•••	•
	GMV-W1230WWA-X		••	••
GMV-W1340WWA-X	GMV-W1285WWA-X		•	•••
	GMV-W1340WMA-X			•••



GMV Wat

Outdoor Unit

380-415V,50/60Hz

Model			GMV-W224WMA-X	GMV-W280WMA-X	GMV-W335WMA-X		
Capacity	Cooling	kW	22.4	28	33.5		
Сараспу	Heating	kW	25	31.5	37.5		
Sound pressure level		dB(A)	50	52	52		
Power supply	Ph/V/Hz 3Ph/380-415V/50/60Hz						
Water flow volume		m³/h	4.8	6	7.2		
water now volume		CFM	2.83	2.83 3.53			
Water pressure drop		Кра	16	24	45		
Rated Power Input	Cooling	kW	3.9	5.7	7.9		
Rated Fower Input	Heating	kW	4	5.4	7.35		
Refrigerant Connecting	Gas	mm	Ф22.2	Ф22.2	Ф25.4		
Pipe diameter	Liquid	mm	Ф9.52	Ф9.52	Ф12.7		
Water connecting pipe	Inlet	mm	DN32	DN32	DN32		
diameter	Outlet	mm	DN32	DN32	DN32		
Dimension(W×D×H)	Outline	mm	780x550x1000	780x550x1000	780x550x1000		
Dilliension(W^D^H)	Package	mm	833 x599 x1160	833 x599 x1160	833 x599 x1160		
Net weight/Gross weight		kg	162/175	162/175	162/175		
Looding quantity	40' GP	set	108	108	108		
Loading quantity	40' HQ	set	108	108	108		

▼ Specifications of ODU Combination

380-415V,50/60Hz

	Danne	Сар	acity	Powe	er Input	Dimension	W-4 8	Sound Pressure	Pressure diameter		Min sinsuit	rcuit Ma×.fuse			
Model	Power Supply	Cooling	Heating	Cooling	Heating	Dimension (W×D×H)	Water flow volume	Level Semi- anechoic	Liquid	Gas	Min.circuit current	current	Weight		
	Ph/V/Hz	kW	kW	kW	kW	mm	m³/h	dB(A)	mm	mm	A	Α	kg		
GMV-W448WM/A-X		44.8	50.0	3.9x2	4.0x2	(780×550×1000)×2	4.8x2	53	Ф12.7	Ф28.6	16.1x2	20x2	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	20x2	162×2		
GMV-W560WWA-X		56.0	63.0	7.9x2	5.4x2	(780×550×1000)×2	6.0x2	55	Ф15.9	Ф28.6	19.7x2	20x2	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-W670WWA-X		67.0	75.0	7.9x2	7.35x2	(780×550×1000)×2	7.2x2	55	Ф15.9	Ф28.6	26.8x2	32x2	162×2		
GMV-W728WWA-X		72.8	81.5	3.9x2+5.7	4.0x2+5.4	(780×550×1000)×3	4.8x2+6.0	56	Ф19.1	Ф31.8	16.1x2+19.7	20x3	162×3		
GMV-W784WWA-X		78.4	88.0	3.9+5.7x2	4.0+5.4x2	(780×550×1000)×3	4.8+6.0x2	57	Ф19.1	Ф31.8	16.1+19.7x2	20x3	162×3		
GMV-W840WWA-X		84.0	94.5	5.7x3	5.4x3	(780×550×1000)×3	6.0x3	57	Ф19.1	Ф31.8	19.7x3	20x3	162×3		
GMV-W895WWA-X	3Ph/380- 415V/50/6 0Hz	415V/50/6		89.5	100.5	5.7x2+7.9	5.4x2+7.35	(780×550×1000)×3	6.0x2+7.2	57	Ф19.1	Ф31.8	19.7x2+26.8	20x2+32	162×3
GMV-W950WWA-X			95.0	106.5	5.7+7.9x2	5.4+7.35x2	(780×550×1000)×3	6.0+7.2x2	57	Ф19.1	Ф31.8	19.7+26.8x2	20+32x2	162×3	
GMV-W1005WM/A-X			100.5	112.5	7.9x3	7.35x3	(780×550×1000)×3	7.2x3	57	Ф19.1	Ф38.1	26.8x3	32x3	162×3	
GMV-W1064WMA-X				106.4	119.5	3.9+5.7x3	4.0+5.4x3	(780×550×1000)×4	4.8+6.0x3	58	Ф19.1	Ф38.1	16.1+19.7x3	20x4	162×4
GMV-W1120WM/A-X		112.0	126.0	5.7x4	5.4x4	(780×550×1000)×4	6.0x4	59	Ф19.1	Ф38.1	19.7x4	20x4	162×4		
GMV-W1175WMA-X		117.5	132.0	5.7x3+7.9	5.4x3+7.35	(780×550×1000)×4	6.0x3+7.2	59	Ф19.1	Ф38.1	19.7x3+26.8	20x3+32	162×4		
GMV-W1230WMA-X		123.0	138.0	5.7x2+7.9x3	5.4x2+7.35x2	(780×550×1000)×4	6.0x2+7.2x2	59	Ф19.1	Ф38.1	19.7x2+26.8x2	20x2+32x2	162×4		
GMV-W1285WMA-X		128.5	144.0	5.7+7.9x3	5.4+7.35x3	(780×550×1000)×4	6.0+7.2x3	59	Ф19.1	Ф38.1	19.7+26.8x3	20+32x3	162×4		
GMV-W1340WMA-X		134.0	150.0	7.9x4	7.35x4	(780×550×1000)×4	7.2x4	59	Ф19.1	Ф38.1	26.8x4	32x4	162×4		



GMV5 Heat Recovery



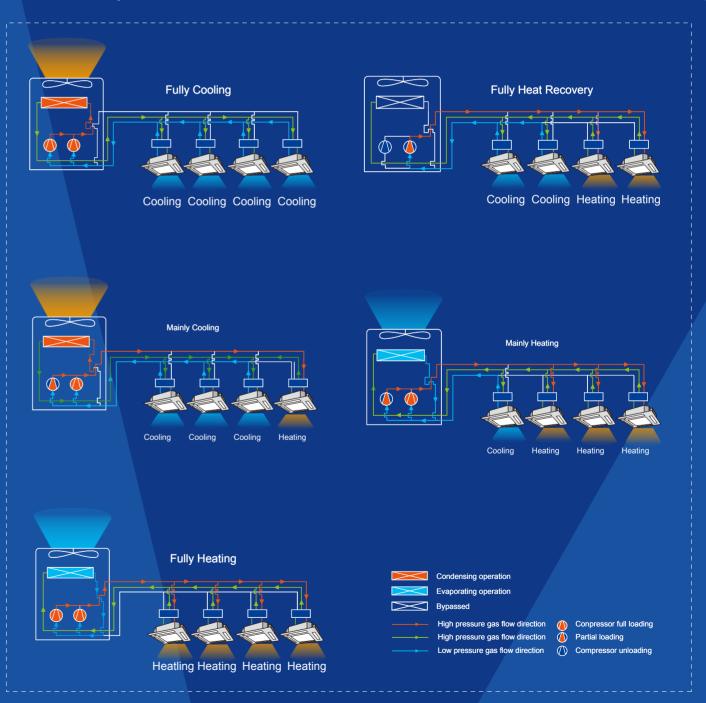


Key Features

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



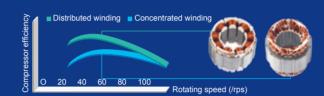
GMV5

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.



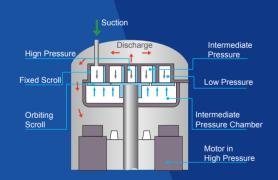
High Pressure Chamber Design

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?

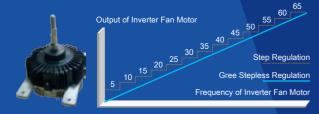
High pressure chamber compressor inhales directly to reduce overheat suction loss and improve compression efficiency.





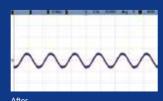
Sensorless DC Inverter Fan Motor

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



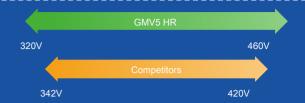
Sensorless control technology guarantees lower noise, less vibration and steadier operation.





Wide Range of Voltage to Ensure a Steady System Running

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



Wider Applicable Location

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



Max. IDU Connection: 80 sets

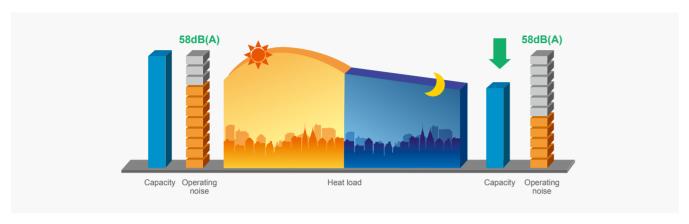
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Comfortable Design for A Better Life

Intelligent Quiet Function at Night

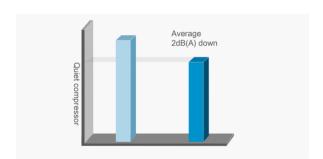
Quiet at night

Intelligently 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.

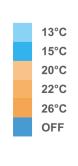


The optimized design of condensing fan blade reduces the air flow turbulence among blades, so that the noise is lower.



Individual Control for More Energy Saving

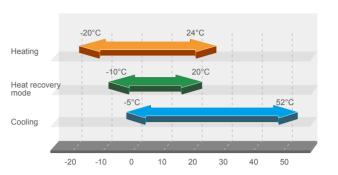
The set temperature of each room may vary by the individual thermostat control of each indoor unit. The cooling and heating operation can be performed at the same time.





Wide Operation Range

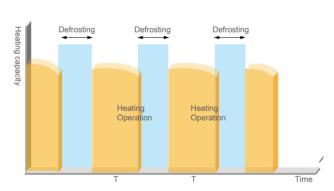
The unit can operates in wide range, greatly reducing the ambient temperature limitation.



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.





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.



Notes: No.1 to 4 means the operation sequence 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.

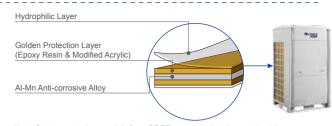






▼ Highly Anticorrosive Golden Fins

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

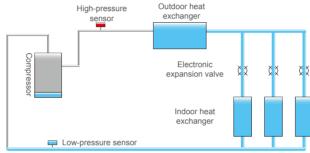


Note: Satt-spary testing result is from GREE materials chemistry testing laboratory

V Oil Return Control Technology

New Oil Return Control

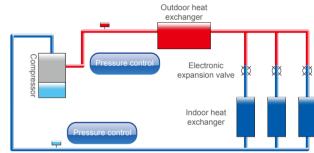
Gree new oil return control technology effectively controls system oil return and oil storage status of each compressor, which greatly improves the operation lifespan of compressor.



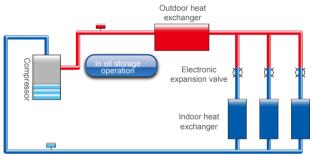
Oil storage status before oil return

• Specialized Compressor Oil Storage Control

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



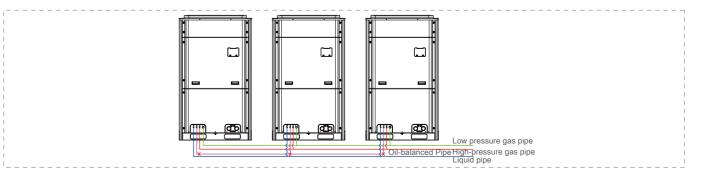
Oil return operation



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.



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, 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

▼ GMV5 HR Lineup

HP	Model	Product Outlook
8HP	GMV-Q224WM/E-X	
10HP	GMV-Q280WM/E-X	
12HP	GMV-Q335WM/E-X	***
14HP	GMV-Q400WM/E-X	
16HP	GMV-Q450WM/E-X	

Model	Product Outlook
NCHS1C	
NCHS2C	The same
NCHS4C	
NCHS8C	The state of the s

Specifications and Parameters 50/60 Hz

Mo	odel		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				
Cooling capacity		kW	22.4	28	33.5	40	45				
Heating capacity		kW	25	31.5	37.5	45	50				
EER	Ducted	kW/kW	4.09	3.44	4.04	3.36	3.04				
EK	Cassette	kW/kW	3.1	2.53	2.47	12 14 16 33.5 40 45 37.5 45 50 4.04 3.36 3.04 2.47 2.52 2.64 4.87 4.5 3.94 3.46 3.07 2.79 8.29 11.9 14.8 13.56 15.87 17.05 7.7 10 12.69 10.84 14.66 17.92 1.15V 3N~50/60Hz 24.7/32 28.8/40 33.2/40 19 23 26 9.6 11.1 11.6 63 63 63 63 80 86 89 Φ12.7 Φ12.7 Φ12.7 Φ19.05 Φ22.2 Φ25.4 Φ25.4 Φ25.4 Φ28.6 140×765×1605 1340×765×1605 1420×840×1775 1420×840×1775					
nop.	Ducted	kW/kW	4.75	4.32	4.87	14 16 40 45 45 50 3.36 3.04 2.52 2.64 4.5 3.94 3.07 2.79 11.9 14.8 15.87 17.05 10 12.69 14.66 17.92 60Hz 28.8/40 33.2/40 23 26 11.1 11.6 63 63 63 86 89 Ф12.7 Ф12.7 Ф22.2 Ф25.4 Ф28.6 05 1340×765×1605 1340×765×1605	3.94				
COP	Cassette	kW/kW	3.37	3.48	3.46						
Davies comprimenties of cooling	Ducted	kW	5.48	8.14	8.29	11.9	14.8				
Power comsumption of cooling	Cassette	kW	7.23	11.07	13.56	15.87	17.05				
	Ducted	kW	5.26	7.29	7.7	10	12.69				
Power comsumption of heating Cassette		kW	7.42	7.42 9.05 10.84 14.66		14.66	17.92				
Power supply	wer supply V			380-415V 3N~50/60Hz							
Max. circuit/Fuse current		А	16.3/20	20.9/25	20.9/25 24.7/32 28.8/40		33.2/40				
Maximum drive IDU NO.		unit	13	13 16 19		23	26				
Refrigerant charge volume		kg	6.2	6.2 7.1		11.1	11.6				
Sound pressure level	Cooling	dB(A)	60	61	63	63	63				
Sound power level	Cooling	dB(A)	84	84	80	86	89				
	Liquid	mm	Ф9.52	Ф9.52	Ф12.7	Ф12.7	Ф12.7				
Connecting pipe	Gas	mm	Ф15.9	Ф19.05	Ф19.05	Ф22.2	Ф22.2				
	Oil balance	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(WxDxH)	Package	mm	1010×840×1775	1010×840×1775	1420×840×1775	1420×840×1775	1420×840×1775				
let weight/Gross weight		kg	233/243	233/243	302/317	346/361	346/361				
	40' GP	set	24	24	16	16	16				
oading quantity	40' HQ	set	24	24	16	16	16				

50/60 Hz

Mod	el		NCHS1C	NCHS2C	NCHS4C	NCHS8C			
Max.IDU Branches		unit	1	2	4	8			
No. of connectable II	DU of each branch	unit	8	8	8	8			
Total Connectable II	DU	unit	8	16	32	64			
Max. Capacity of each	ch branch	kW	14.2	14.2	14.2	14.2			
Max. Capacity of cor	nnectable IDU	kW	14.2	28	45	68			
Power supply		V/Ph/Hz		220~240V 1Ph 50/60Hz					
Power comsumption		W	8	28	44 80				
Max. branch quantity	of connecting IDU	unit	1	2	4	8			
Outdoor Unit	Liquid		Ф9.52	Ф9.52	Ф12.7	Ф15.9			
Outdoor Unit	Gas(Low pressure)	mm	Ф2	2.2	Ф28	3.6			
Piping Connection	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	388x302x225	468x377x225	587x399x225	987x488x225			
(WxDxH)	Package	mm	805x403x305	946x646x365	1123x676x345	1524x861x315			
Net Weight/Gross W	eight	kg	9/12.2	15.6/23.4	18.6/24.6	37/46.6			

Note: GMV-Q**WM/E-X and NCHS*C are fixed match, which cannot 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-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

	Power	Сар	acity	Powe	r Input*²				Connec	ting pipe	diameter	Min.	Max.	
Model	Supply	Cooling	Heating	Cooling	Heating	Dimension(W×D×H)	Airflow Volume	ESP	Liquid	HP Gas	LP Gas	circuit current	fuse current	Weight
		kW	kW	kW	kW	mm	m³/h	Ра	mm	mm	mm	A	A	kg
GMV-Q504WME-X		50.4	56.5	13.62	12.55	(930×765×1605) ×2	11400×2	82	Ф15.9	Ф25.4	Ф28.6	16.3+20.9	20 + 25	233+233
GMV-Q560WWE-X		56	63.0	16.58	15.40	(930×765×1605) ×2	11400×2	82	Ф15.9	Ф25.4	Ф28.6	20.9+20.9	25 + 25	233+233
GMV-Q615WM/E-X		61.5	69.0	16.43	14.99	(930×765×1605) + (1340×765×1605)	11400+14000	82	Ф15.9	Ф25.4	Ф28.6	20.9+24.7	25 + 32	233+302
GMV-Q680WM/E-X		68	76.5	20.04	17.29	(930×765×1605) + (1340×765×1605)	11400+14000	82	Ф15.9	Ф25.4	Ф28.6	20.9+28.8	25 + 40	233+346
GMV-Q730WME-X		73	81.5	22.94	19.98	(930×765×1605) + (1340×765×1605)	11400+14000	82	Ф19.05	Ф28.6	Ф31.8	20.9+33.2	25 + 40	233+346
GMV-Q785WWE-X		78.5	87.5	23.09	20.39	(1340×765×1605) ×2	14000×2	82	Ф19.05	Ф28.6	Ф31.8	24.7+33.2	40 + 40	302+346
GMV-Q850WWE-X		85	95.0	26.70	22.69	(1340×765×1605) ×2	14000×2	82	Ф19.05	Ф28.6	Ф31.8	28.8+33.2	40 + 40	346+346
GMV-Q900WWE-X		90	100.0	29.60	25.38	(1340×765×1605) ×2	14000×2	82	Ф19.05	Ф28.6	Ф31.8	33.2+33.2	40 + 40	346+346
GMV-Q960WM/E-X		96	108.0	28.18	24.58	(930×765×1605) ×2 +(1340×765×1605)	11400×2+14000	82	Ф19.05	Ф28.6	Ф31.8	20.9+20.9+28.8	25 + 25 + 40	233×2+346
GMV-Q1010WWE-X	380- 415V	101	113.0	31.08	27.27	(930×765×1605) ×2 +(1340×765×1605)	11400×2+14000	82	Ф19.05	Ф31.8	Ф38.1	20.9+20.9+33.2	25 + 25 + 40	233×2+346
GMV-Q1065WWE-X	3Ph 50/60Hz	106.5	119.0	31.23	27.68	(930×765×1605) + (1340×765×1605)×2	11400+14000×2	82	Ф19.05	Ф31.8	Ф38.1	20.9+24.7+33.2	25 + 40 + 40	233+302+346
GMV-Q1130WWE-X		113	126.5	34.84	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+346×2
GMV-Q1180WWE-X		118	131.5	37.74	32.67	(930×765×1605) + (1340×765×1605)×2	11400+14000×2	82	Ф19.05	Ф31.8	Ф38.1	20.9+33.2+33.2	25 + 40 + 40	233+346×2
GMV-Q1235WWE-X		123.5	137.5	37.89	33.08	(1340×765×1605)×3	14000×3	82	Ф19.05	Ф31.8	Ф38.1	24.7+33.2+33.2	40 + 40 + 40	302+346×2
GMV-Q1300WM/E-X		130	145.0	41.50	35.38	(1340×765×1605)×3	14000×3	82	Ф19.05	Ф31.8	Ф38.1	28.8+33.2+33.2	40 + 40 + 40	346×3
GMV-Q1350WWE-X		135	150.0	44.40	38.07	(1340×765×1605)×3	14000×3	82	Ф19.05	Ф31.8	Ф38.1	33.2+33.2+33.2	40 + 40 + 40	346×3
GMV-Q1410WWE-X		141	158.0	42.98	37.27	(930×765×1605) ×2+ (1340×765×1605)×2	11400×2+14000×2	82	Ф19.05	Ф38.1	Ф41.3	20.9+20.9 +28.8+33.2	25 + 25 + 40 + 40	233×2+346×2
GMV-Q1460WWE-X		146	163.0	45.88	39.96	(930×765×1605) ×2+ (1340×765×1605)×2	11400×2+14000×2	82	Ф19.05	Ф38.1	Ф41.3	20.9+20.9 +33.2+33.2	25 + 25 + 40 + 40	233×2+346×2
GMV-Q1515WWE-X		151.5	169.0	46.03	40.37	(930×765×1605) + (1340×765×1605)×3	11400+14000×3	82	Ф19.05	Ф38.1	Ф41.3	20.9+24.7 +33.2+33.2	25 + 32 + 40 + 40	233+302+346×2
GMV-Q1580WWE-X		158	176.5	49.64	42.67	(930×765×1605) + (1340×765×1605)×3	11400+14000×3	82	Ф19.05	Ф38.1	Ф41.3	20.9+28.8 +33.2+33.2	25 + 40 + 40 + 40	233+346×3
GMV-Q1630WWE-X		163	181.5	52.54	45.36	(930×765×1605) + (1340×765×1605)×3	11400+14000×3	82	Ф19.05	Ф38.1	Ф41.3	20.9+33.2 +33.2+33.2	25 + 40 + 40 + 40	233+346×3
GMV-Q1685WWE-X		168.5	187.5	52.69	45.77	(1340×765×1605)×4	14000×4	82	Ф19.05	Ф38.1	Ф41.3	24.7+33.2 +33.2+33.2	32 + 40 + 40 + 40	302+346×3
GMV-Q1750WWE-X		175	195.0	56.30	48.07	(1340×765×1605)×4	14000×4	82	Ф19.05	Ф38.1	Ф41.3	28.8+33.2 +33.2+33.2	40 + 40 + 40 + 40	346×4
GMV-Q1800WWE-X		180	200.0	59.20	50.76	(1340×765×1605)×4	14000×4	82	Ф19.05	Ф38.1	Ф41.3	33.2+33.2 +33.2+33.2	40 + 40 + 40 + 40	346×4



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.

Key Features of Indoor Units I

▼ High Static Pressure Duct Type Indoor Unit



• High static pressure design

Static pressure can be up to 150Pa, especially suitable for places in need of long distance airflow.

• Easy maintenance

The system has maintenance port for easy maintenance.

Convenient installation

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

• Protection function

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

▼ Low Static Pressure Duct Type Indoor Unit



• Low static pressure, low noise

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

• Intelligent drainage device

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

Note: Please specify if you need this function.

• Convenient installation

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

Protection function

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

▼ Slim Ducted Type Indoor Unit



• Highly Efficient & Energy-saving

High-efficiency DC brushless motor is used. Its efficiency is improved by over 30% compared with common motor. Evaporator flow path adopts simulating optimized design via the refrigeration system simulation software, which has greatly increased the heat exchange capacity of evaporator.

• Slim & Small

The unit is only 200mm's thick and 450mm's deep. Suspended ceiling doesn't have to be very high. It is suitable for ordinary rooms.

• Wiring of Electric Control Box

Mounting board of electric control box elements are arranged at both sides of the mounting board of fan motor. There is a wire-cross notch on each side so that wiring at both sides of the mounting board of fan motor is convenient and efficient. Strong and weak current are also separated to ensure the effectiveness of weak current signal transmission.

Protection Functions

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

Ultra-quiet

High-efficiency centrifugal fan and ultralow noise volute are developed with ANSYS and Fluent. They have also gained national patents. Meanwhile, inlet mute valve is adopted so that noise of the complete unit is greatly reduced.

• Fast & Strong

Intelligent temperature control technology is adopted. Cooling/ Heating function is fast and strong so that room temperature can quickly reach set temperature.

• Flexible Installation

Based on the requirements of building and utilization, different ways of air return and different air supply static pressure can be selected.

CAN Bus Communication Technology

System response speed is faster and communication is more reliable. Auto addressing, non-polar communication, free wire matching

• Convenient Operation & Maintenance

Electric control box is attached independently so that it can be detached as a whole, which is convenient for maintenance. The installation and maintenance of fan and motor is also convenient.

▼ 4-way Cassette Indoor Unit



Strong and balanced airflow

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

• Ultra-low noise operation

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

• Intelligent drainage device

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

DC inverter motor

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

Protection function

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

Fresh Air Ventilation Kit

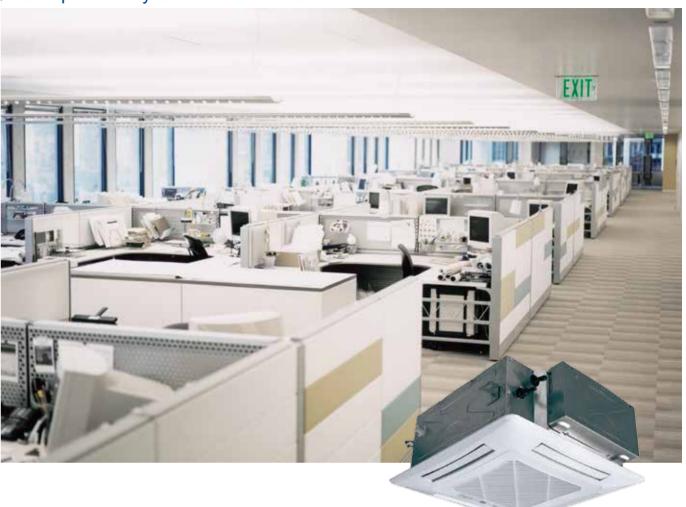


• Fresh air quality

The fresh air device operates by matching with 4-way cassette indoor unit, supplying indoor side with outdoor fresh air to improve indoor air quality and then let users enjoy the fresher air.

• Beautiful Appearance
With beautiful and elegant outlook, can be used matched with 4-way cassette.

▼ Compact 4-way Cassette Indoor Unit



• Compact Design for Easy Installation
Units maintain the uniform length and width with consistent ceiling opening and panel dimension, convenient for design and installation.

• Ultra-low noise operation

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

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

360° Air Discharge Compact Cassette Indoor Unit



• 360° Air Supply

360° air supply design for balanced temperature distribution, which provides more comfortable experience.

• Ultra-low Noise Operation

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

• Independent Swing Control

4 swing blades can be controlled independently and maximum 626 air supply angle combinations can be realized for free and humanized control, avoiding direct blow to people.

• Intelligent Drainage Device

Water height difference up to 1.2m, which can effectively drain out condensing weter and save space.

▼ 360° Air Discharge Cassette Indoor Unit



• 360°Air Supply

 $360\,^\circ$ air supply design to make indoor air flow more even and temperature distribution more comfortable to avoid any blind angle.

• Individual Swing Control

Individual swing control of four air guide louvers to set fixed supply air or swing supply air in different angles individually, satisfying the user's individualized requirements on temperature and air flow distribution in different indoor locations, thus enhancing comfort.

• Lifting Water Pump of Condensate

With direct current drainage pump, the operation noise is lower and the lift reaches 1,200mm.

• Fresh Air Function

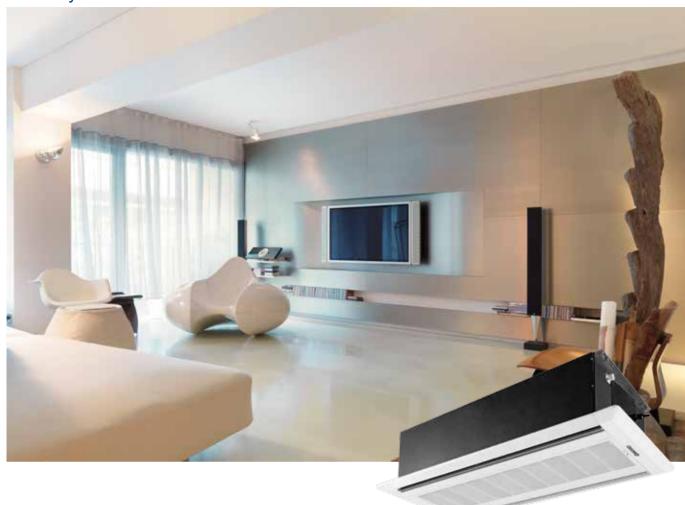
With the healthy fresh air accessories, it can bring in 8%~10% of fresh outdoor air effectively, improving air quality of indoor unit.

• I-feel Technology*

The advanced I-feel technology can detect human indoor activities at real time and realize intelligent control to the operation status of the indoor unit, thus reaching a higher energy conservation level.

Note: * This function is custom-made.

2-way Cassette Indoor Unit



• Beautiful Appearance

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

• Intelligent drainage device

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

• Two-way air flow design

Two-way air outlet, to stretch air outlet distance and solve air supply problem of elongated room

Multiple protections

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

▼ 1-way Cassette Indoor Unit



• Small installation space

With 185mm ultrathin design, unit can be installed in the ceiling of 19cm deep.

• Detachable grille and long life filter

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

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

• Protection function

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

▼ Wall-mounted Indoor Unit



• Comfortable and balanced airflow, up&down air outlet

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

• Triple defenders for better purification

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

• Cold air prevention design

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

• Multiple protections

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

▼ Floor Ceiling Type Indoor Unit



• Hoisted or seated, flexible installation

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

• Beautiful appearance

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

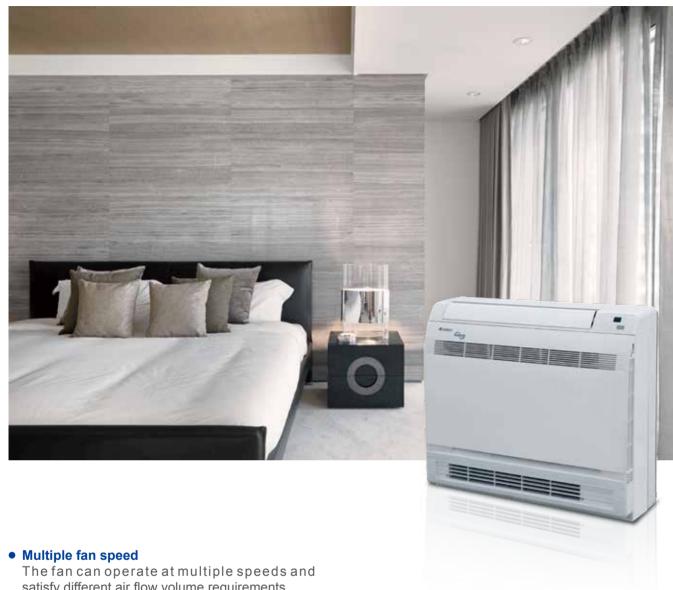
• Protection function

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

Horizontal and vertical air swing

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

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.

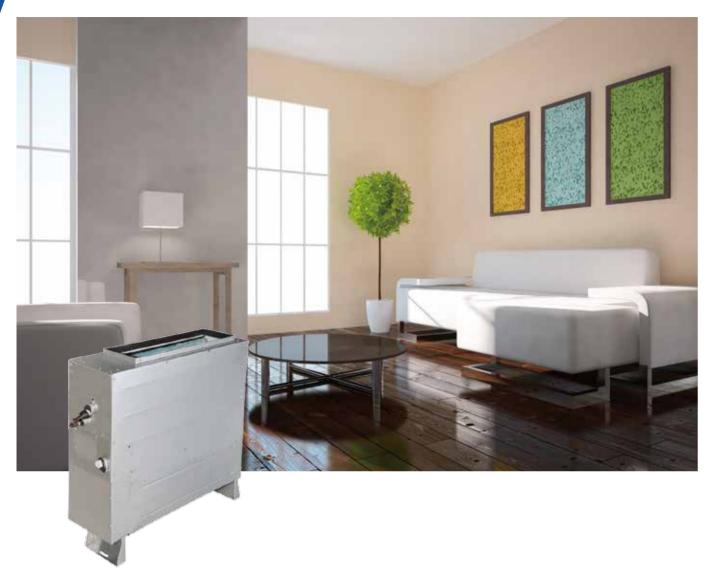
Floor Standing Indoor Unit



• 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



Wide 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.









Air conditioning and fresh air, two in one

Less investment

Fresh Air DC Inverter Multi VRF System can be combined with Gree GMV5E. For a same room, if the same amount of fresh air is to be taken, then the cost of GMV5E+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.







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	72	80	90	100	112	125	140	160	224	250	280	450	560
High Static Pressure Duct Type Unit		•	•	•	•	•	•	•	•	•	•	•		•	•	•	•	•	•	•	•		•		
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-m ounted Type Unit	-0	•		•		•		•	•	•	•	•		•	•	•									
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
Consoity	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			220-240/1/50 8	& 208-230/1/60		
Power consum	ption	W	55	55	55	65	65	85
A inflant trail trace	7.178471.5	m³/h	550/480/400	550/480/400	550/480/400	600/500/420	600/500/420	850/700/600
Airflow volume(m/ivi/L)	CFM	324/282/235	324/282/235	324/282/235	353/294/247	353/294/247	500/412/353
	Cooling	А	0.5	0.5	0.5	0.5	0.5	0.5
Rated Current	Heating	А	0.5	0.5	0.5	0.5	0.5	0.5
	Water Heating	А	1	1	1	1	1	1
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
diameter	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
Drain 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	897×808×362	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
Canacity	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			220-240/1/50 8	§ 208-230/1/60		,
Power consump	otion	W	85	85	90	90	100	100
A inflant traltume of	11/84/15	m³/h	850/700/600	850/700/600	1000/800/700	1000/800/700	1250/1050/950	1250/1050/950
Airflow volume(n/IVI/L)	CFM	500/412/353	500/412/353	589/471/412	589/471/412	736/618/559	736/618/559
	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	1	1	/	1	1	1
ESP		Pa	60/0~150	60/0~150	90/0~200	90/0~200	90/0~200	90/0~200
Sound pressure	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
diameter	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
Drain pipe	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
(WxDxH)	Package	mm	897×808×360	897×808×360	1205×813×360	1205×813×360	1205×813×360	1205×813×360
Net weight/Gros	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
Conneity	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				220-240/1/50 8	§ 208-230/1/60			
Power consump	otion	W	140	140	160	160	220	230	800	900
A inflance of	11/84/15	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
Airflow volume(m/IVI/L)	CFM	1059/853/736	1059/853/736	1177/942/824	1177/942/824	1383/1118/971	1471/1177/1030	2354/2119/1883	2589/2354/2119
	Cooling	Α	1.1	1.1	1.1	1.1	2.0	2.0	3.7	4.1
Rated Current	Heating	Α	1.1	1.1	1.1	1.1	2.0	2.0	3.7	4.1
	Water Heating	Α	/	1	1	1	1	1	1	1
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 pressure	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
diameter	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	1686x870x450
(WxDxH)	Package	mm	1601×813×360	1601×813×360	1601×813×360	1601×813×360	1678×808×365	1678×808×365	1578x883x472	1788x988x580
Net weight/Gros	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

N	Model		GMV-NDR20 PH/B1-T	GMV-NDR22 PH/B1-T	GMV-NDR25 PH/B1-T	GMV-NDR28 PH/B1-T	GMV-NDR32 PH/B1-T	GMV-NDR36 PH/B1-T	GMV-NDR45 PH/B1-T
Canacity	Cooling	kW	2	2.2	2.5	2.8	3.2	3.6	4.5
Capacity	Heating	kW	2.2	2.5	2.8	3.2	3.6	4	5
Pow er supply		V/Ph/Hz			20	8-230/220-240V ~60/	50		
Pow er consum	ption	W	380	380	380	380	380	380	380
A inflant traltimes	(1.1/1/1/1)	m³/h	2625	2625	2625	2625	2625	2625	2625
Airflow volume	(INIVIL)	CFM	1545	1545	1545	1545	1545	1545	1545
Rated Current	Cooling	Α	1.75	1.75	1.75	1.75	1.75	1.75	1.75
Rated Current	Heating	Α	1.75	1.75	1.75	1.75	1.75	1.75	1.75
ESP		Pa	25/25~200	25/25~200	25/25~200	25/25~200	25/25~200	25/25~200	25/25~200
Sound pressure	e level(H/M/L)	dB(A)	46/42/38	46/42/38	46/42/38	46/42/38	46/42/38	46/42/38	46/42/38
Connecting pipe	e Liquid	mm	Ф9.52						
diameter	Gas	mm	Ф15.9						
Dii	External dia.	mm	Ф25						
Drain pipe	Thickness	mm	2.5	2.5	2.5	2.5	2.5	2.5	2.5
Dimension	Outline	mm	1000×700×300	1000×700×300	1000×700×300	1000×700×300	1000×700×300	1000×700×300	1000×700×300
(WxDxH)	Package	mm	1205×813×360	1205×813×360	1205×813×360	1205×813×360	1205×813×360	1205×813×360	1205×813×360
Net w eight/Gros	ss w eight	kg	43/49	43/49	43/49	43/49	43/49	43/49	43/49
	40'GP	set	173	173	173	173	173	173	173
Loading quantity	40'HQ	set	190	190	190	190	190	190	190

Mo	del		GMV-NDR56PH/ B1-T	GMV-NDR63PH/ B1-T	GMV-NDR71PH/ B1-T	GMV-NDR80PH/ B1-T	GMV-NDR90PH/ B1-T	GMV-NDR100PH/ B1-T	GMV-NDR112PH/ B1-T
Capacity	Cooling	kW	5.6	6.3	7.1	8	9	10	11.2
Сарасну	Heating	kW	6.3	7.1	8	9	10	11.2	12.5
Power supply		V/Ph/Hz			22	20~240/1/50 & 208~23	30/1/60		
Power consun	nption	W	525	650	760	866	866	864	866
Airfle	flow volume(H/M/L) m³/h		3650	3850	4160	4250	4250	4250	4250
Airflow volume(H/M/L) CFM		CFM	2148	2266	2448	2501	2501	2501	2501
Rated Current	Cooling	Α	2.9	3.6	4.2	4.7	4.7	4.8	4.8
Raled Current	Heating	А	2.9	3.6	4.2	4.7	4.7	4.8	4.8
ESP		Pa	25/25~200	25/25~200	25/25~200	37/37~200	37/37~200	37/37~200	37/37~200
Sound pressu	re level(H/M/L)	dB(A)	52	52	52	52	52	52	52
Connecting pipe	Liquid	mm	Ф9.52	Ф9.52	Ф9.52	Ф9.52	Ф9.52	Ф9.52	Ф9.52
diameter	Gas	mm	Ф19.05	Ф19.05	Ф19.05	Ф19.05	Ф19.05	Ф19.05	Ф19.05
Designation	External dia.	mm	Ф30	Ф30	Ф30	Ф30	Ф30	Ф30	Ф30
Drain pipe	Thickness	mm	1.5	1.5	1.5	1.5	1.5	1.5	1.5
Dimension	Outline	mm	385×1483×791	385×1483×791	385×1483×791	385×1483×791	385×1483×791	385×1483×791	385×1483×791
(WxDxH)	Package	mm	472×1578×883	472×1578×883	472×1578×883	472×1578×883	472×1578×883	472×1578×883	472×1578×883
Net weight/Gro	oss weight	kg	82/104	82/104	82/104	82/104	82/104	82/104	82/104
Loading	40'GP	set	52	52	52	52	52	52	52
quantity	40'HQ	set	65	65	65	65	65	65	65



▼ 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
Power supply		V/Ph/Hz		2	20-240/1/50 & 208-230/1/6	0	,
Power consumpti	on	W	65	65	65	65	65
A:	11/0.4/1	m³/h	610/437/350	610/437/350	610/437/350	650/629/449	650/629/449
Airflow volume (T/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	А	0.32	0.32	0.32	0.32	0.32
	Water Heating	А	1	1	1	1	1
Sound pressure I	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
diameter	Gas	mm	Ф9.52	Ф9.52	Ф9.52	Ф12.7	Ф12.7
Drain nine	External dia.	mm	25	25	25	25	25
Drain pipe	Thickness	mm	2.5	2.5	2.5	2.5	2.5
Dimension	Outline	mm			710x450x200		
(WxDxH)	Package	mm			1003x551x285		
Net weight/Gross	weight	kg	19/23	19/23	19/23	20/23.5	20/23.5
1	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	4.5	5	5.6	6.3
Capacity	Heating	kW	4.5	5	5.6	6.3	7
Power supply		V/Ph/Hz		2	20-240/1/50 & 208-230/1/6	0	
Power consumpti	on	W	65	65	65	65	65
Airflow volume (I	1/0.4/1	m³/h	810/743/659	810/743/659	810/736/690	810/736/690	810/736/690
Allilow volume (1	7/IV/L)	CFM	477/437/388	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	1	1	1	1	1
Sound pressure I	evel(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
diameter	Gas	mm	Ф12.7	Ф12.7	Ф12.7	Ф15.9	Ф15.9
Denin nine	External dia.	mm	25	25	25	25	25
Drain pipe	Thickness	mm	2.5	2.5	2.5	2.5	2.5
Dimension	Outline	mm			1010×450×200		
(W×D×H)	Package	mm			1303×551×285		
Net weight/Gross	weight	kg	24/29	24/29	25/30.5	25/30.5	25/30.5
	40'GP	set	288	288	288	288	288
Loading quantity	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-T
Oit.	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			220-	-240/1/50 & 208-230/1	1/60		
Power consump	otion	W	70	140	209	209	209	230	230
Airflow volume(LI/NA/L \	m³/h	1210/919/754	1100/1000/800	1500/1250/950	1500/1350/1000	1700/1500/1100	2000/1500/1150	2000/1500/1150
Almow 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	Α	1	1	1	1	1	1	1
ESP		Pa				30/0~50			
Sound pressure	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
diameter	Gas	mm	Ф15.9	Ф15.9	Ф15.9	Ф15.9	Ф15.9	Ф15.9	Ф15.9
Drain pipe	External dia.	mm	25	25	25	25	25	25	25
Drain 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	
$(W \times D \times H)$	Package	mm	1603×551×285	1448×858×315			1588x85	58x315	
Net weight/Gro	ss weight	kg	30.5/37	40/47	46/55	46/55	46/55	47/56	47/56
Loading	40' GP	set	224	96	78	78	78	78	78
quantity	40' HQ	set	224	96	78	78	78	78	78

▼ 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			
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			
Power supply		V/Ph/Hz		220-240/1/50 & 208-230/1/60						
Power consump	ption	W	28	28	28	37	37			
A:	(L1/NA/L)	m³/h	450	450	450	550	550			
Airflow volume	(II/IVI/L)	CFM	265	265	265	324	324			
D	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	30	30	31	31			
Connecting	Liquid	mm	Ф6.35	Ф6.35	Ф6.35	Ф6.35	Ф6.35			
pipe diameter	Gas	mm	Ф9.52	Ф9.52	Ф9.52	Ф12.7	Ф12.7			
.	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/Gro	ss weight	kg	18.5	18.5	18.5	19	19			
Loading guan-	40'GP	set	386	386	386	386	386			
tity	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
Canacity	Cooling	kW	4	4.5	5	5.6	6.3	7.1
Capacity	Heating	kW	4.5	5	5.6	6.3	7.1	8
Power supply		V/Ph/Hz			220-240/1/50 8	§ 208-230/1/60		
Power consum	ption	W	40	40	55	55	55	55
A :	(11/04/1)	m³/h	750	750	850	850	850	1100
Airflow volume	(H/M/L)	CFM	441	441	500	500	500	647
Rated Current	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	15/0~30
Sound pressur	e level(H/M/L)	dB(A)	33	33	35	35	35	37
Connecting	Liquid	mm	Ф6.35	Ф6.35	Ф6.35	Ф9.52	Ф9.52	Ф9.52
pipe diameter	Gas	mm	Ф12.7	Ф12.7	Ф12.7	Ф15.9	Ф15.9	Ф15.9
Dii	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
(WxDxH)	Package	mm	1308×568×275	1308×568×275	1308×568×275	1308×568×275	1308×568×275	1608×568×275
Net weight/Gro	ss weight	kg	25	25	25	25	25	31
Loading quan-	40'GP	set	288	288	288	288	288	229
tity	40'HQ	set	340	340	340	340	340	257

	Model		GMV-ND22PL/B-T*	GMV-ND25PL/B-T*	GMV-ND28PL/B-T*	GMV-ND32PL/B-T*	GMV-ND36PL/B-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			220-240/1/50 & 208-230/1/60		
Power consump	otion	W	25	25	25	30	30
Airflow volume(11/84/15	m³/h	450/400/320	450/400/320	450/400/320	550/450/340	550/450/340
Alfilow volume(m/IVI/L)	CFM	265/235/188	265/235/188	265/235/188	324/265/200	324/265/200
	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
	Water Heating	А	1	1	1	1	1
ESP		Pa			0/15		
Sound pressure	e level(H/M/L)	dB(A)	30/28/22	30/28/22	30/28/22	31/29/25	31/29/25
Connecting pipe	Liquid	mm	Ф6.35	Ф6.35	Ф6.35	Ф6.35	Ф6.35
diameter	Gas	mm	Ф9.52	Ф9.52	Ф9.52	Ф12.7	Ф12.7
Drain pipe	External dia.	mm	25	25	25	25	25
Dialii pipe	Thickness	mm	2.5	2.5	2.5	2.5	2.5
Dimension	Outline	mm			710x450x200		
WxDxH)	Package	mm			1003x551x285		
Net weight/Gros	ss weight	kg	18.5/22	18.5/22	18.5/22	19.5/23	19.5/23
Loading	40' GP	set	352	352	352	352	352
quantity	40' HQ	set	352	352	352	352	352

Note: *This series is without water pump.



	Model		GMV-ND40PL/B-T*	GMV-ND45PL/B-T*	GMV-ND50PL/B-T*	GMV-ND56PL/B-T*	GMV-ND63PL/B-T*	GMV-ND72PL/B-T*					
Canacity	Cooling	kW	4.0	4.5	5.0	5.6	6.3	7.2					
Capacity	Heating	kW	4.5	5.0	5.6	6.3	7.0	8.0					
Power supply		V/Ph/Hz			220-240/1/50 8	& 208-230/1/60							
Power consump	otion	W	35	35	35	45	45	50					
Airflow volume(11/84/15	m³/h	750/660/540	750/660/540	750/660/540	850/700/610	850/700/610	1100/800/640					
Alfilow volume(П/IVI/L)	CFM	441/388/318	441/388/318	441/388/318	500/412/359	500/412/359	647/471/377					
	Cooling	А	0.3	0.3	0.3	0.3	0.3	0.5					
Rated Current	Heating	А	0.3	0.3	0.3	0.3	0.3	0.5					
	Water Heating	Α	1	1	1	1	1	1					
ESP		Pa		0/15									
Sound pressure	level(H/M/L)	dB(A)	33/30/27	33/30/27	33/30/27	35/33/29	35/33/29	37/34/30					
Connecting pipe	Liquid	mm	Ф6.35	Ф6.35	Ф6.35	Ф9.52	Ф9.52	Ф9.52					
diameter	Gas	mm	Ф12.7	Ф12.7	Ф12.7	Ф15.9	Ф15.9	Ф15.9					
Drain pipe	External dia.	mm	25	25	25	25	25	25					
Drain pipe	Thickness	mm	2.5	2.5	2.5	2.5	2.5	2.5					
Dimension	Outline	mm			1010x450x200			1310x450x200					
		mm			1303x551x285			1603x551x285					
Net weight/Gros	ss weight	kg	23.5/28	23.5/28	23.5/28	24.5/29	24.5/29	30.5/36					
Loading	40' GP	set	288	288	288	288	288	224					
quantity	40' HQ	set	288	288	288	288	288	224					

4-way Cassette Indoor Unit 50/60 Hz

	Mo	odel		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		
O:h.		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 supp	oly		V/Ph/Hz		220-240/1/50 & 208-230/1/60							
Power cons	sumption		W	48	48	48	50	59	59	68		
A inflant train	ime(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		
All HOW VOID	ime(n/ivi/L)		CFM	440/383/325	440/383/325	440/383/325	490/383/325	590/530/440	590/530/440	695/559/550		
		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	1	1	1	1	1	1	1		
Sound pres	sure level(H/M/	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	pipe	Liquid	mm	Ф6.35	Ф6.35	Ф6.35	Ф6.35	Ф9.52	Ф9.52	Ф9.52		
diameter		Gas	mm	Ф9.52	Ф12.7	Ф12.7	Ф12.7	Ф15.9	Ф15.9	Ф15.9		
Orain pipe		External dia.	mm	25	25	25	25	25	25	25		
Dialii pipe		Thickness	mm	2.5	2.5	2.5	2.5	2.5	2.5	2.5		
	Dimension	Outline	mm	840x840x190	840x840x190	840x840x190	840x840x190	840x840x240	840x840x240	840x840x240		
/lain Body	(WxDxH)	Package	mm	963x963x272	963x963x272	963x963x272	963x963x272	963x963x325	963x963x325	963x963x325		
	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	mm	950x950x65	950x950x65	950x950x65	950x950x65	950x950x65	950x950x65	950x950x65		
Panel	(WxDxH)	Package	mm	1033x1038x133	1033x1038x133	1033x1038x133	1033x1038x133	1033x1038x133	1033x1038x133	1033x1038x133		
Net weight/Gross weight		kg	7/11	7/11	7/11	7/11	7/11	7/11	7/11			
oading qu	antity	40'GP	set	167	167	167	167	140	140	140		
Loading qu	aritity	40'HQ	set	171	171	171	171	156	156	156		

		Model		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
0 "		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	ply		V/Ph/Hz			220~24	0/1/50 & 208~230/1/	60		ı
Power con	sumption		W	68	98	98	110	110	110	130
A : £1 1-			m³/h	1180/950/850	1500/1350/1100	1500/1350/1100	1700/1400/1100	1860/1500/1150	1860/1500/1150	2100/1700/1400
All llow voil	ume(H/M/L)		CFM	695/559/550	880/795/650	880/795/650	1000/824/650	1095/880/677	1095/880/677	1235/1000/824
		Cooling	Α	0.3	0.4	0.4	0.5	0.5	0.5	0.6
Rated Current Heating		Heating	Α	0.3	0.4	0.4	0.5	0.5	0.5	0.6
Water Heating		Α	1	1	1	1	1	1	/	
Sound pres	ssure 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
diameter		Gas	mm	Ф15.9	Ф15.9	Ф15.9	Ф15.9	Ф15.9	Ф15.9	Ф19.05
Drain pipe		External dia.	mm	25	25	25	25	25	25	25
Diairi pipe		Thickness	mm	2.5	2.5	2.5	2.5	2.5	2.5	2.5
	Dimension	Outline	mm	840x840x240	840x840x320	840x840x320	840x840x320	840x840x320	840x840x320	910×910×293
Main Body	(WxDxH)	Package	mm	963x963x325	963x963x409	963x963x409	963x963x409	963x963x409	963x963x409	1023×993×375
	Net weight/0	Bross 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	950x950x65	950x950x65	950x950x65	950x950x65	950x950x65	950x950x65	1040x1040x65
Panel	(WxDxH)	Package	mm	1033x1038x133	1033x1038x133	1033x1038x133	1033x1038x133	1033x1038x133	1033x1038x133	1137x1137x140
	Net weight	/Gross weight	kg	7/11	7/11	7/11	7/11	7/11	7/11	7.5/11.5
Loading qu	iantity	40'GP	set	140	104	104	104	104	104	144
Louding qu		40'HQ	set	156	119	119	119	119	119	144

M	lodel		GMV-ND28T /A1-T	GMV-ND36T /A1-T	GMV-ND40T /A1-T	GMV-ND45T /A1-T	GMV-ND50T /A1-T	GMV-ND56T /A1-T	GMV-ND63T /A1-T	GMV-ND71T /A1-T	GMV-ND80T /A1-T
Capacity	Cooling	kW	2.8	3.6	4	4.5	5	5.6	6.3	7.1	8
Сараспу	Heating	kW	3.2	4	4.5	5	5.6	6.3	7.1	8	9
Power supply	-	V/Ph/Hz				208-2	230/220-240V~60	/50			
Power consum	ption	W	130	130	130	150	150	250	250	250	250
Airflow volume	(H/M/L)	m³/h	1650	1650	1650	2000	2000	2880	2880	2880	2880
All llow volume	(TI/WI/L)	CFM	971	971	971	1177	1177	1694	1694	1694	1694
Rated Current	Cooling	A	0.59	0.59	0.59	0.68	0.68	1.3	1.3	1.3	1.3
Rated Current	Heating	Α	0.59	0.59	0.59	0.68	0.68	1.3	1.3	1.3	1.3
Sound pressur	e level(H/M/L)	dB(A)	43/41/38	43/41/38	43/41/38	47/44/42	47/44/42	49/46/44	49/46/44	49/46/44	49/46/44
Connecting pip	eLiquid	mm	Ф9.52								
diameter	Gas	mm	Ф15.9	Ф19.05							
Drain pipe	External dia.	mm	Ф25								
Dialii pipe	Thickness	mm	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
Main body	Outline	mm	840×840×240	840×840×240	840×840×240	840x840x320	840x840x320	910×910×293	910×910×293	910×910×293	910×910×293
Main body Dimension	Package	mm	963×963×325	963×963×325	963×963×325	963x963x409	963x963x409	1023×993×375	1023×993×375	1023×993×375	1023×993×375
(WxDxH)	Net weight/ Gross weight	kg	26.5/34.5	26.5/34.5	26.5/34.5	32.5/40.0	32.5/40.0	46.5/56.5	46.5/56.5	46.5/56.5	46.5/56.5
Panel	Outline	mm	950×950×65	950×950×65	950×950×65	950×950×65	950×950×65	1040×1040×65	1040×1040×65	1040×1040×65	1040×1040×65
Dimension	Package	mm	1033×1038×133	1033×1038×133	1033×1038×133	1033×1038×133	1033×1038×133	1137×1137×140	1137×1137×140	1137×1137×140	1137×1137×140
(WxDxH)	Net weight/ Gross weight	kg	7/11	7/11	7/11	7/11	7/11	8/11.5	8/11.5	8/11.5	8/11.5
Loading	40'GP	set	140	140	140	104	104	144	144	144	144
quantity	40'HQ	set	156	156	156	119	119	144	144	144	144

▼ 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	4.50	5.00	5.60	6.30
Capacity		Heating	kW	3.2	4	5.00	5.60	6.30	7.10
Power supp	ly		V/Ph/Hz			220-240/1/50 8	& 208-230/1/60		
Power cons	umption		W	25	25	26	28	35	35
A :	(11/0.4/1)		m³/h	800/700/600	800/700/600	800/700/600	900/800/700	950/850/750	950/850/750
AITIOW VOIU	me (H/M/L)		CFM	471/412/353	471/412/353	471/412/353	530/471/412	559/500/441	559/500/441
Datad Curr	n n h	Cooling	А	0.2	0.2	0.2	0.2	0.2	0.2
Rated Curre	Heating		А	0.2	0.2	0.2	0.2	0.2	0.2
Sound pressure level(H/M/L)		dB(A)	33/30/28	33/30/28	33/30/28	35/32/29	36/33/30	36/33/30	
Connecting	pipe	Liquid	mm	Ф9.52	Ф12.7	Ф12.7	Ф12.7	Ф15.9	Ф15.9
diameter		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	(WxDxH)	Package	mm	960×960×310	960×960×310	960×960×310	960×960×310	960×960×310	960×960×310
	Net weight/	Gross weight	kg	28/36	28/36	28/36	29/37	29/37	29/37
	Dimension	Outline	mm	950x950x65	950x950x65	950x950x65	950x950x65	950x950x65	950x950x65
Panel (WxDxH)		Package	mm	1033x1038x112	1033x1038x112	1033x1038x112	1033x1038x112	1033x1038x112	1033x1038x112
Net weight/Gr		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
anding our	a matita s	40'GP	set	168	168	168	168	168	168
Loading qua	antity	40'HQ	set	192	192	192	192	192	192

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



Note:
* This series is without water pump.

	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}
Canacity		Cooling	kW	7.10	8.00	9.00	10.00	11.20	12.50	14.00
Capacity		Heating	kW	8.00	9.00	10.00	11.20	12.50	14.00	16.00
Power supp	oly		V/Ph/Hz		220-240/1/50 & 208-230/1/60					
Power cons	sumption		W	60	68	68	80	80	95	115
A inflorer value	ma (m³/h	1150/950/850	1150/950/850	1250/1000/900	1250/1000/900	1500/1200/1000	1650/1300/1100	1650/1300/1100
All llow volu	me (H/M/L)		CFM	677/559/500	677/559/500	736/589/530	736/589/530	883/706/589	971/765/647	971/765/648
Datad Cum	n m f	Cooling	А	0.4	0.4	0.4	0.4	0.4	0.5	0.6
Rated Curre	ent	Heating	А	0.4	0.4	0.4	0.4	0.4	0.5	0.6
Sound pres	sure level(H/	M/L)	dB(A)	37/34/31	38/35/32	39/36/33	39/36/33	41/37/34	43/37/34	43/37/34
Connecting	pipe	Liquid	mm	Ф15.9	Ф15.9	Ф15.9	Ф15.9	Ф15.9	Ф15.9	Ф15.9
diameter		Gas	mm	Ф9.52	Ф9.52	Ф9.52	Ф9.52	Ф9.52	Ф9.52	Ф9.52
Danie aire		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	960×960×310	960×960×310	960×960×310	960×960×310	960×960×364	960×960×364	960×960×364
	Net weight/0	Gross weight	kg	29/37	31/38	31/38	31/38	35/44	35/44	35/44
	Dimension	Outline	mm	950x950x65	950x950x65	950x950x65	950x950x65	950x950x65	950x950x65	950x950x65
Panel	(WxDxH)	Package	mm	1033x1038x112	1033x1038x112	1033x1038x112	1033x1038x112	1033x1038x112	1033x1038x112	1033x1038x112
	Net weight/0	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	6.0/9.5
Loading	antitu.	40'GP	set	168	168	168	168	168	168	168
Loading qu	arility	40'HQ	set	192	192	192	192	144	144	144

Fresh Air Ventilation Kit

Model Fresh Air Intake Volume %			XF150A1-T ⁻¹	XF150A-T ^{*2}
Fresh Air Intake Volume		%	10	10
Dimension	(DxH)		846×857×60	834×834×60
(WxDxH)	Package	mm	873×873×180	873×873×180
Dimension of the Connect	ion	mm	150	150
		Pcs	2	2
Net weight/Gross weight kg		kg	3/7.1	2.7/7.7

Compact 4-way Cassette Indoor Unit 50/60 Hz

	Mo	del		GMV-ND22T/B-T	GMV-ND28T/B-T	GMV-ND36T/B-T	GMV-ND45T/B-T	GMV-ND50T/B-T	GMV-ND56T/B-T
Oit		Cooling	kW	2.2	2.8	3.6	4.5	5	5.6
Capacity		Heating	kW	2.5	3.2	4	5	5.6	6.3
Power supp	oly		V/Ph/Hz			220-240/1/50 8	208-230/1/60		'
Power cons	sumption		W	35	35	35	45	45	45
Airflow volu	mo(H/M/L)		m³/h	600/500/400	600/500/400	600/500/400	700/600/500	700/600/500	700/600/500
All llow volu	IIIe(II/IVI/L)		CFM	355/295/235	355/295/235	355/295/235	410/355/295	410/355/295	410/355/295
		Cooling	Α	0.4	0.4	0.4	0.5	0.5	0.5
Rated Curre	ent	Heating	A 0.4 0.4 0.5		0.5	0.5	0.5		
		Water Heating	Α	1	1	1	1	1	1
Sound pres	sure level(H/M/	L)	dB(A)	41/39/37	41/39/37	41/39/37	45/43/39	45/43/39	45/43/39
Sound pressure level(H/M/L) Connecting pipe Liquid			mm	Ф6.35	Ф6.35	Ф6.35	Ф6.35	Ф6.35	Ф9.52
diameter		Gas	mm	Ф9.52	Ф9.52	Ф12.7	Ф12.7	Ф12.7	Ф15.9
Designation		External dia.	mm	25	25	25	25	25	25
Drain pipe		Thickness	mm	2.5	2.5	2.5	2.5	2.5	2.5
	Dimension	Outline	mm	596x596x240	596x596x240	596x596x240	596x596x240	596x596x240	596x596x240
Main Body	(WxDxH)	Package	mm	778x738x300	778x738x300	778x738x300	778x738x300	778x738x300	778x738x300
	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	670x670x50	670x670x50	670x670x50	670x670x50	670x670x50	670x670x50
Panel (WxDxH) P		Package	mm	763x763x105	763x763x105	763x763x105	763x763x105	763x763x105	763x763x105
Net weight/Gross weight k		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	
Loading qua	antity	40'GP	set	245	245	245	245	245	245
Luauiiig que	arrity	40'HQ	set	279	279	279	279	279	279

7 360° Air Discharge Compact Cassette Indoor Unit

	Mo	del		GMV-ND22T/E-T*3	GMV-ND28T/E-T*3	GMV-ND36T/E-T ⁻³	GMV-ND45T/E-T	GMV-ND50T/E-T	GMV-ND56T/E-T
0		Cooling	kW	2.2	2.8	3.6	4.5	5	5.6
Capacity		Heating	kW	2.5	3.2	4	5	5.6	6.3
Power suppl	ly		V/Ph/Hz			220-240/1/50 8	k 208-230/1/60	,	,
Power consi	umption		W	28	28	30	45	45	45
٠ا م اعدا	me (H/M/L)		m³/h	600/500/400	600/500/400	620/550/480	730/650/560	730/650/560	730/650/560
AITHOW VOIUI	ne (n/w/L)		CFM	355/294/235	355/294/235	365/324/282	430/383/330	430/383/330	430/383/330
Rated Curre	ent	Cooling	А	0.13	0.13	0.15	0.23	0.23	0.23
	Heating			0.13	0.13	0.15	0.23	0.23	0.23
ound pressure level(H/M/L) dB(A)		dB(A)	38/36/34	38/36/34	39/37/35	43/41/39	43/41/39	43/41/39	
Connecting	pipe	Liquid	mm	Ф6.35	Ф6.35	Ф6.35	Ф6.35	Ф6.35	Ф9.52
diameter		Gas	mm	Ф9.52	Ф9.52	Ф9.52 Ф12.7 Ф12.7 Ф12.7		Ф12.7	Ф15.9
Dii		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	570×570×265	570×570×265	570×570×265	570×570×265	570×570×265	570×570×265
Main Body	(WxDxH)	Package	mm	650×695×280	650×695×280	650×695×280	650×695×280	650×695×280	650×695×280
	Net weight/	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 (WxDxH)		Package	mm	698×698×110	698×698×110	698×698×110	698×698×110	698×698×110	698×698×110
Net weight/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	
anding au	and the	40'GP	set	378	378	378	378	378	378
oading qua	iriuty	40'HQ	set	432	432	432	432	432	432



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

Note:
*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.

^{*3:} This product is under development. Please confirm the final specifications with sales representatives.

2-way Cassette Indoor Unit 50/60 Hz

	Mc	del		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 supp	ply		V/Ph/Hz			220-24	40/1/50 & 208-230/1	/60		
Power cons	sumption		W	55.0	55.0	55.0	55.0	103.0	103.0	103.0
Airflow volu	ume(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
All llow voic	ille(H/W/L)		CFM	490/388/341	490/388/341	490/388/341	490/388/341	650/530/441	650/530/441	650/530/441
		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 A				1	/	1	1	1	/	1
Sound pres	ssure 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	pipe	Liquid	mm	Ф6.35	Ф6.35	Ф6.35	Ф6.35	Ф9.52	Ф9.52	Ф9.52
diameter		Gas	mm	Ф9.52	Ф12.7	Ф12.7	Ф12.7	Ф15.9	Ф15.9	Ф15.9
Drain pipe		External dia.	mm	25	25	25	25	25	25	25
Dialii pipc		Thickness	mm	2.5	2.5	2.5	2.5	2.5	2.5	2.5
	Dimension	Outline	mm	1200x520x315	1200x520x315	1200x520x315	1200x520x315	1200x520x315	1200x520x315	1200x520x315
Main Body	(WxDxH)	Package	mm	1523x658x430	1523x658x430	1523x658x430	1523x658x430	1523x658x430	1523x658x430	1523x658x430
	Net weight/G	ross weight	kg	43/54	43/54	43/54	43/54	46/56	46/56	46/56
	Dimension	Outline	mm	1443x630x33	1443x630x33	1443x630x33	1443x630x33	1443x630x33	1443x630x33	1443x630x33
Panel	(WxDxH)	Package	mm	1578x768x120	1578x768x120	1578x768x120	1578x768x120	1578x768x120	1578x768x120	1578x768x120
	Net weight/G	ross weight	kg	7.0/11.0	7.0/11.0	7.0/11.0	7.0/11.0	7.0/11.0	7.0/11.0	7.0/11.0
Loading gu	antity	40'GP	set	90	90	90	90	90	90	90
Louding qu	ading quantity 40'HQ set			105	105	105	105	105	105	105

✓ 1-way Cassette Indoor Unit 50/60 Hz

	Mo	del		GMV-ND22TD/A-T	GMV-ND28TD/A-T	GMV-ND36TD/A-T	GMV-ND45TD/A-T	GMV-ND50TD/A-T	GMV-ND56TD/A-T
Congoity		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 supp	ply		V/Ph/Hz			220-240/1/50 8	208-230/1/60		
Power cons	sumption		W	30	30	30	45	45	45
Airflow volu	ıme(H/M/L)		m³/h	600/500/450	600/500/450	600/500/450	830/600/500	830/600/500	890/667/564
HIIIOW VOIC	ille(H/W/L)		CFM	355/295/265	355/295/265	355/295/265	490/355/295	490/355/295	524/393/332
		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 A /					1	1	1	1	1
1 1 1							41/38/35		
Connecting	pipe	Liquid	mm	Ф6.35	Ф6.35	Ф6.35	Ф6.35	Ф6.35	Ф9.52
diameter		Gas	mm	Ф9.52	Ф9.52	Ф12.7	Ф12.7	Ф12.7	Ф15.9
Drain pipe		External dia.	mm	25	25	25	25	25	25
Diairi pipc		Thickness	mm	2.5	2.5	2.5	2.5	2.5	2.5
	Dimension	Outline	mm	987x385x178	987x385x178	987x385x178	987x385x178	987x385x178	987x385x178
Main Body	(WxDxH)	Package	mm	1307x501x310	1307x501x310	1307x501x310	1307x501x310	1307x501x310	1307x501x310
	Net weight/G	ross weight	kg	20.0/27.0	20.0/27.0	20.0/27.0	21.0/28.5	21.0/28.5	21/28.5
	Dimension	Outline	mm	1200x460x55	1200x460x55	1200x460x55	1200x460x55	1200x460x55	1200x460x55
Panel	(WxDxH)	Package	mm	1265x536x121	1265x536x121	1265x536x121	1265x536x121	1265x536x121	1265x536x121
Net weight/Gross weight k		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	
Loading qu	antity	40'GP	set	138	138	138	138	138	138
_oaa.iig qa		40'HQ	set	138	138	138	138	138	138

Wall-mounted Type Indoor Unit

	Model		GMV- N22G/A3A-K *	GMV- N28G/A3A-K *	GMV- N36G/A3A-K *	GMV- N45G/A3A-K *	GMV- N50G/A3A-K *	GMV- N56G/A3A-K *	GMV- N63G/A3A-K *	GMV- N71G/A3A-K *
Canacity	Cooling	kW	2.2	2.8	3.6	4.5	5.0	5.6	6.3	7.1
Capacity	Heating	kW	2.5	3.2	4.0	5.0	5.8	6.3	7.0	7.5
Power supply		V/Ph/Hz				220-2	40/1/50			
Power consump	otion	W	50	50	60	60	60	70	70	70
A inflance of	11/84/15	m³/h	500/420/350	500/420/350	630/550/480	630/550/480	630/550/480	750/600/500	750/600/500	750/600/500
Airflow volume(n/IVI/L)	CFM	294/247/206	294/247/206	371/324/282	371/324/282	371/324/282	441/353/294	441/353/294	441/353/294
	Cooling	Α	0.2	0.2	0.31	0.31	0.31	0.31	0.31	0.31
Rated Current	Heating	Α	0.2	0.2	0.31	0.31	0.31	0.31	0.31	0.31
	Water Heating	А	/	1	1	1	1	1	1	1
Sound pressure	level(H/M/L)	dB(A)	38/34/30	38/34/30	44/41/38	44/41/38	44/41/38	44/41/38	44/41/38	44/41/38
Connecting pipe	Liquid	mm	Ф6.35	Ф6.35	Ф6.35	Ф6.35	Ф6.35	Ф9.52	Ф9.52	Ф9.52
diameter	Gas	mm	Ф9.52	Ф9.52	Ф12.7	Ф12.7	Ф12.7	Ф15.9	Ф15.9	Ф15.9
Drain pipe	External dia.	mm	Ф20	Ф20	Ф20	Ф20	Ф20	Ф30	Ф30	Ф30
Diairi pipe	Thickness	mm	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
Dimension	Outline	mm	843x18	30x275		940x200x298			1008x221x319	
(WxDxH)	Package	mm	973x25	58x370		1068x288x395			1131x398x328	
Net weight/Gros	ss weight	kg	10/12.5	10/12.5	12.5/15.5	12.5/15.5	12.5/15.5	15/18.5	15/18.5	15/18.5
Loading	40' GP	set	702	702	557	557	557	441	441	441
quantity	40' HQ	set	819	819	624	624	624	503	503	503

Note:* This series is without water pump.

50/60 Hz

	Model		GMV-ND22G/A3A-T	GMV-ND28G/A3A-T	GMV-ND36G/A3A-T	GMV-ND45G/A3A-T	GMV-ND50G/A3A-T
Canacity	Cooling	kW	2.2	2.8	3.6	4.5	5
Capacity Heating		kW	2.5	3.2	4	5	5.8
Power supply		V/PH/Hz			220-240/1/50 & 208-230/1/60		
Power consun	nption	W	20	20	30	30	30
A:-0	(1.1/8.4/1.)	m³/h	500/420/350	500/420/350	630/550/480	630/550/480	630/550/480
Airflow volume	(H/IV/L)	CFM	294/247/206	294/247/206	371/324/282	371/324/282	371/324/282
	Cooling	Α	0.1	0.1	0.16	0.16	0.16
Rated cument	Heating	A	0.1	0.1	0.16	0.16	0.16
	Water heating	Α	/	/	/	1	/
Sound pressu	re level(H/M/L)	dB (A)	38/34/30	38/34/30	38/34/30 44/41/38		44/41/38
Connecting	Liquid	mm	Ф6.35	Ф6.35	Ф6.35	Ф6.35	Ф6.35
pipe diameter	Gas	mm	Ф9.52	Ф9.52	Ф12.7	Ф12.7	Ф12.7
Dania aira	Extermal dia.	mm	Ф20	Ф20	Ф20	Ф20	Ф20
Drain pipe	Thickness	mm	1.5	1.5	1.5	1.5	1.5
Dimension	Outline	mm	843×180×275	843×180×275	940×200×298	940×200×298	940×200×298
$(W \times D \times H)$	Package	mm	973x258x370	973x258x370	1068x288x395	1068x288x395	1068x288x395
Net weight/gro	ss weight	Kg	10/12.5	10/12.5	12.5/15.5	12.5/15.5	12.5/15.5
Loading	40'GP	Set	702	702	557	557	557
quantity	40'HP	Set	819	819	624	624	624



	Model		GMV-ND56G/A3A-T	GMV-ND63G/A3A-T	GMV-ND71G/A3A-T	GMV-ND80G/A3A-T	GMV-ND90G/A3A-T	GMV-ND100G/A3A-T
Capacity	Cooling	kW	5.6	6.3	7.1	8	9	9.5
Capacity	Heating	kW	6.3	7	7.5	9	10	10.5
Power supply		V/PH/HZ			220-240/1/50	& 208-230/1/60		
Power consun	nption	W	40	40	40	80	80	100
A inflattual to la topo o	(1.1/8.4/1.)	m³/h	750/600/500	750/600/500	750/600/500	1550/1050/800	1550/1050/800	1650/1100/900
Airflow volume	(II/IVI/L)	CFM	441/353/294	441/353/294	441/353/294	912/618/471	912/618/471	971/647/530
	Cooling	Α	0.17	0.17	0.17	0.41	0.41	0.41
Rated cument	Heating	А	0.17	0.17	0.17	0.41	0.41	0.41
	Water heating	Α	1	1	1	1	1	/
Sound pressu	re level(H/M/L)	dB (A)	44/41/38	44/41/38	44/41/38	49/46/40	49/46/40	52/48/40
Connecting	Liquid	mm	Ф9.52	Ф9.52	Ф9.52	Ф9.52	Ф9.52	Ф9.52
pipe diameter	Gas	mm	Ф15.9	Ф15.9	Ф15.9	Ф15.9	Ф15.9	Ф15.9
Drain nine	Extermal dia.	mm	Ф30	Ф30	Ф30	Ф30	Ф30	Ф30
Drain pipe	Thickness	mm	1.5	1.5	1.5	1.5	1.5	1.5
Dimension	Outline	mm	1008×221×319	1008×221×319	1008×221×319	1350×258×326	1350×258×326	1350×258×326
(W×D×H)	Package	mm	1131x398x328	1131x398x328	1131x398x328	1496x421x358	1496x421x358	1496x421x358
Net weight/gro	ss weight	Kg	15/18.5	15/18.5	15/18.5	18.5/23.5	18.5/23.5	18.5/23.5
Loading	40'GP	Set	441	441	441	228	228	228
quantity	40'HP	Set	503	503	503	266	266	266

	Model		GMV-ND22G/B4B-T ^{*1}	GMV-ND28G/B4B-T*1	GMV-ND36G/B4B-T ^{*1}	GMV-ND45G/B4B-T*1	GMV-ND50G/B4B-T ^{*1}	
Oih.	Cooling	kW	2.2	2.8	3.6	4.5	5	
Capacity	Heating	kW	2.5	3.2	4	5	5.6	
Power supply		V/Ph/Hz						
Power consumpt	ion	W	20	20	25	35	35	
A: 0	11010	m³/h	500/440/300	500/440/300	630/460/320	850/580/500	850/580/500	
Airflow volume (H/M/L)	CFM	294/259/177	294/259/177	371/271/188	500/341/294	500/341/294	
Data d Occurrent	Cooling	А	0.1	0.1	0.12	0.17	0.17	
Rated Current	Heating	А	0.1	0.1	0.12	0.17	0.17	
Sound pressure I	evel(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	
diameter	Gas	mm	Ф9.52	Ф9.52	Ф12.7	Ф12.7	Ф12.7	
Dania aira	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		845×289×209	,	970×30	00×224	
(WxDxH) Package		mm		973x364x278		1096×3	83×320	
Net weight/Gross weight		kg		10.5/12.5	12.5/15.5			
1 1:	40'GP	set		576		44	48	
Loading quantity 40'HQ	40'HQ	set		576		512		

	Model		GMV-ND56G/B4B-T ^{*1}	GMV-ND63G/B4B-T*1	GMV-ND71G/B4B-T ⁻¹	GMV-ND80G/B4B-T*1	GMV-ND90G/B4B-T ^{*1}	GMV-ND100G/B4B-T ¹
Canacity	Cooling	kW	5.6	6.3	7.1	8	9	9.5
Capacity	Heating	kW	6.3	7.1	7.5	9	10	10.5
Power supply V		V/Ph/Hz			220-240/1/50 8	§ 208-230/1/60		
Power consumpt	ion	W	50	50	65	80	80	100
A :	11/0.4/1)	m³/h	1100/850/650	1100/850/650	1200/850/650	1550/1050/800	1550/1050/800	1650/1100/900
Airflow volume (H/IVI/L)	CFM	647/500/383	647/500/383	706/500/383	912/618/471	912/618/471	971/647/530
Data d Occurrent	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
diameter	Gas	mm	Ф15.9	Ф15.9	Ф15.9	Ф15.9	Ф15.9	Ф15.9
Desir sin s	External dia.	mm	Ф30	Ф30	Ф30	Ф30	Ф30	Ф30
Drain pipe	Thickness	mm	1.5	1.5	1.5	1.5	1.5	1.5
Dimension	Outline	mm		1078×325×246	,		1350×258×326	
(WxDxH) Package		mm		1203×413×350		1496×421×369		
Net weight/Gross weight		kg	16/19			18.5/23.5		
Landina and Ci	40'GP	set		282			228	
Loading quantity	40'HQ	set		329			266	

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

Fresh Air Processing Indoor Unit 50/60 Hz

	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 *
0	Cooling	kW	12.5	14.0	22.4	25 .0	28.0	45
Capacity	Heating	kW	8.5	10.0	16.0	18.0	20.0	32.0
Power supply		V/Ph/Hz		220	0-240V/1/50 & 208-230/1/	/60		380~415/3/50
Power consump	otion	W	350	350	760	860	860	1240
Airflow volume(L/M/L)	m³/h	1200/1000~2000	1200/1000~2000	2000/1500~3000	2500/2000~3500	2500/2000~3500	4000
Allilow volume(n/IVI/L)	CFM	706/589~1177	706/589~1177	1177/883~1766	1471/1177~2060	1471/1177~2060	2354
	Cooling	А	1.5	1.5	2.5	3.1	3.1	3.4
Rated Current	Heating	А	1.5	1.5	2.5	3.1	3.1	3.4
	Water Heating	Α	1	1	1	1	1	1
ESP		Pa	150/50~200	150/50~200	200/50~300	200/50~300	200/50~280	200
Sound pressure	e level(H/M/L)	dB(A)	40~50	40~50	45~54	47~54	47~54	58
Connecting pipe	Liquid	mm	Ф9.52	ФФ9.52	Ф9.52	Ф9.52	Ф9.52	Ф12.7
diameter	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
Dialii 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	1700x1100x650
(WxDxH)	Package	mm	1601×813×365	1601×813×365	1578×883×472	1578×883×472	1578×883×472	1893x1463x838
Net weight/Gros	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*: This series can be matched with GMV5E. GMV5 Home. GMV5 HR (Top discharge outdoor unit)

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
· · ·	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			220-240/1/50 & 208-230/1/60		
Power consump	otion	W	15	15	20	40	40
Airflow volume(I	L/N///)	m³/h	400/320/270	400/320/270	480/400/310	680/600/500	680/600/500
All now volume(i	n/IVI/L)	CFM	235/188/159	235/188/159	282/235/182	400/353/294	400/353/294
	Cooling	Α	0.17	0.17	0.25	0.4	0.4
Rated Current	Heating	Α	0.17	0.17	0.25	0.4	0.4
	Water Heating	Α	1	1	1	1	1
ESP		Pa	0	0	0	0	0
Sound pressure	level(H/M/L)	dB(A)	38/33/27	38/33/27	40/37/32	46/43/39	46/43/39
Connecting pipe	Liquid	mm	Ф6.35	Ф6.35	Ф6.35	Ф6.35	Ф6.35
diameter	Gas	mm	Ф9.52	Ф9.52	Ф12.7	Ф12.7	Ф12.7
Drain pipe	External dia.	mm	Ф28	Ф28	Ф28	Ф28	Ф28
Didn'i 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
(WxDxH)	Package	mm	788x283x777	788x283x777	788x283x777	788x283x777	788x283x777
let weight/Gross weight		kg	16/19	16/19	16/19	16/19	16/19
oading	40' GP	set	348	348	348	348	348
quantity	40' HQ	set	348	348	348	348	348



Floor Ceiling Type Indoor Unit

	Model		GMV-ND28ZD/A-T	GMV-ND36ZD/A-T	GMV-ND50ZD/A-T	GMV-ND56ZD/A-T	GMV-ND63ZD/A-T
Canacity	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			220-240/1/50 & 208-230/1/60		
Power consump	otion	W	40	40	50	50	75
Airflow volume(LIANAA	m³/h	650/580/500	650/580/500	950/850/700	950/850/700	1400/1150/1000
Alfilow volume(m/IVI/L)	CFM	380/341/294	380/341/294	560/500/410	560/500/410	825/677/590
	Cooling	А	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	1	1	1	1	1
Sound pressure	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
diameter	Gas	mm	Ф9.52	Ф12.7	Ф12.7	Ф15.9	Ф15.9
Drain pipe	External dia.	mm	Ф17	Ф17	Ф17	Ф17	Ф17
Diani pipo	Thickness	mm	1.75	1.75	1.75	1.75	1.75
Dimension	Outline	mm		1220x7	00x225		1420x700x245
(WxDxH)	Package	mm		1343x8	23x315		1548x828x345
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

			010/110=/30/4 =	0111/1/100070/4 7	010/1070/1770/1770	0111/11D/057D/1-7	010/1070/A	
	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
Canacity	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 V/Ph/			,	220-240/1/50	% 208-230/1/60		
Power consump	otion	W	75	140	160	160	160	200
Airflow volume(11/84/15	m³/h	1400/1150/1000	1600/1400/1200	2000/1800/1450	2000/1800/1450	2000/1800/1450	2300/2100/1900
Alfilow volume(m/IVI/L)	CFM	825/677/590	940/824/706	1175/1059/853	1175/1059/853	1175/1059/853	1354/1236/1119
	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	1	1	1	1	1	1
Sound pressure	level(H/M/L)	dB(A)	44/42/39	50/47/43	51/46/42	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
diameter	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
Didili pipe	Thickness	mm	1.75	1.75	1.75	1.75	1.75	1.75
Dimension	Outline	mm	1420x70	00x245		1700x7	00x245	
(WxDxH)	Package	mm	1548x82	28x345		1828x8	28x345	
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			220-240/1/50 8	& 208-230/1/60		
Power consump	otion	W	40	40	50	75	75	75
A:	/ OL //L/M/// \	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
Airflow volume	(SL/H/M/L)	CFM	383/359/312/271	383/359/312/271	500/471/412/353	500/471/412/353	765/718/641/553	765/718/641/553
Rated Current	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 diameter	Gas	mm	Ф9.52	Ф12.7	Ф12.7	Ф15.9	Ф15.9	Ф15.9
Danie sie s	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
(WxDxH)	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	25.0/30.0	25.0/30.0	26.0/31.0	31.0/37.0	31.0/37.0	31.0/37.0
Loading quan-	40'GP	set	144	144	144	144	98	98
tity	40'HQ	set	166	166	166	166	113	113

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

	Model		GMV-ND90ZD/B-T*1	GMV-ND100ZD/B-T ^{*1}	GMV-ND112ZD/B-T ^{*1}	GMV-ND125ZD/B-T*1	GMV-ND140ZD/B-T ^{*1}	GMV-ND160ZD/B-T*1
Oih.	Cooling	kW	9.0	10.0	11.2	12.5	14.0	16.0
Capacity	Heating	kW	10.0	11.2	12.5	14.0	16.0	17.0
Power supply		V/Ph/Hz			220-240/1/50 8	% 208-230/1/60		
Power consump	otion	W	140	140	160	160	160	200
A:	(01/11/04/11)	m³/h	1500/1380/1200/1020	1600/1500/1350/1260	1800/1700/1540/1400	1800/1700/1540/1400	2100/2000/1800/1480	2300/2200/1870/1590
Airflow volume	(SL/H/M/L)	CFM	883/812/706/600	942/883/794/742	1059/1000/906/824	1059/1000/906/824	1236/1177/1059/871	1354/1295/1100/936
Rated Current	Cooling	А	1.1	1.1	1.4	1.4	1.4	1.9
Rated Current	Heating	А	1.1	1.1	1.4	1.4	1.4	1.9
Sound pressure	Sound pressure level(H/M/L) dB(A) 47/43/39 47		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	Ф9.52
pipe diameter	Gas	mm	Ф15.9	Ф15.9	Ф15.9	Ф15.9	Ф15.9	Ф19.05
Davis sins	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	1200×665×235	1200×665×235	1570×665×235	1570×665×235	1570×665×235	1570×665×235
(WxDxH)	Package	mm	1363×770×300	1363×770×300	1729×770×300	1729×770×300	1729×770×300	1729×770×300
Net weight/Gro	ss weight	kg	31.0/37.0	31.0/37.0	40.0/47.0	40.0/47.0	42.0/49.0	42.0/49.0
Loading quan-	40'GP	set	98	98	53	53	53	53
tity	40'HQ	set	113	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
Canacity	Cooling	kW	2.2	2.8	3.6	4.5	5.6	6.3	7.1
Capacity	Heating	kW	2.5	3.2	4	5	6.3	7.1	8
Power supply		V/Ph/Hz			220-24	0V~50Hz/208-230V	~60Hz		
Power consumpt	ion	W	35	35	43	45	80	80	90
Airflaur valura a/LL	/h //)	m³/h	450/350/250	450/350/250	550/450/350	650/500/400	900/750/600	900/750/600	1100/900/700
Airflow volume(H	/IV/L)	CFM	265/206/147	265/206/147	324/265/206	383/294/235	530/441/353	530/441/353	647/530/412
Rated Current	Cooling	А	0.18	0.18	0.22	0.23	0.41	0.41	0.46
Rated Current	Heating	Α	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
diameter	Gas	mm	Ф9.52	Ф9.52	Ф12.7	Ф12.7	Ф15.9	Ф15.9	Ф15.9
Dania aira	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
(WxDxH)	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	weight	kg	23/30	23/30	23/30	27/36	32/41	32/41	32/41
Looding quartity	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

	Model		GMV-ND100L/A-T	GMV-ND140L/A-T		
Capacity	Cooling	kW	10	14		
Capacity	Heating	kW	11	15		
Power supply	ower supply		220-240/1/50 8	<u>\$</u> 208-230/1/60		
Power consum	ption	W	200	200		
Airflow volume	(LI/N//L)	m ³ /h	1850/1600/1400	1850/1600/1400		
All now volume	(II/IVI/L)	CFM	1089/942/824	1089/942/824		
	Cooling	А	1.5	1.5		
Rated Current	Heating	А	1.5	1.5		
	Water Heating	А	1	1		
ESP		Pa	0	0		
Sound pressure	e level(H/M/L)	dB(A)	50/48/46	50/48/46		
Connecting pipe	Liquid	mm	Ф9.52	Ф9.52		
diameter	Gas	mm	Ф15.9	Ф15.9		
Drain pipe	External dia.	mm	31	31		
Dialii pipe	Thickness	mm	4.5	4.5		
Dimension	Outline	mm	1870x5	580x400		
(WxDxH)	WxDxH) Package		2083x7	⁷ 38x545		
Net weight/Gro	Net weight/Gross weight		54/74	57/77		
Loading	40' GP	set	67	67		
quantity	40' HQ	set	67	67		

AHU KIT

50/60 Hz

	Model			GMV-N3	6U/B-T	GM\	/-N71U/I	В-Т	GMV-N140U/B-T			GMV-	N280U/I	в-т		GMV-N560U/B-T			
Defections	:	Capa	city	3	36		71		140		280				560				
ex-factory —		Cooling	kW	3	3.6		7.1		14		28					56			
		Heating	kW	4	4		8			16				31.5			63		
Сара		city	28	36	45	56	71	90	112	140	224	280	335	400	450	504	560	840	
Adjustable	e capacity	Cooling	kW	2.8	3.6	4.5	5.6	7.1	9	11.2	14	22.4	28	33.5	40	45	50.4	56	84
		Heating	kW	3.2	4	5	6.3	8	10	12.5	16	25	31.5	37.5	45	50	56.5	63	94.5
Power inp	ut		W	8	3		8	,		8				8				8	
Power Sup	pply		V/Ph/Hz		220-240/1/50 & 208-230/1/60														
	AHU-KIT		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
Size of	Air handling	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
connection	unit	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
pipe	Conr	nection metho	od	Brazing Connection		Brazing Connection		Brazing Connection		nection	Brazing Connection				Brazing Connection		nection		
Outline dir	mension	EXV box	mm	203×3	26×85	20)3×326×	85	20)3×326×	85		20	3×326×8	15		246×500×120		
(W×D×H	1)	Control box	mm	334×28	34×111	33	4×284×1	11	33	4×284×1	11	334×284×111				334×284×111		111	
Packing size (W×D×H)		mm	539×46	61×247	53	9×461×2	247	53	9×461×2	247		539	×461×2	47		759×645×180		180	
Net weight/Gross weight		kg	9/	12		9/12			9/12		9/12				12.5/17		7		
Loading 40'GP		set	98	31		981			981		981					702			
Quantity	40'1	HQ	set	10	90		1090			1090		1090				756			

	Modula	r Model		GMV-N560U/B-T+GMV-N140U/B-T	GMV-N560U/B-T+GMV-N280U/B-T	GMV-N560U/B-T+0	MV-N560U/B-T	
Defaulted	aanaaitu of	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	157.5	189	
Power inp	ut		W	8+8	8+8	8+	-8	
Power Sup	oply		V/Ph/Hz		220-240/1/50 & 208-230/1/60			
Size of	Air handling	Liquid pipe	mm	Ф19.05	Ф19.05	Ф19.05	Ф19.05	
connection pipe	unit	Gas pipe	mm	Ф38.1	Ф38.1	Ф41.3	Ф41.3	
Outline dir	Outline dimension (W×		mm	246×500×120+203×326×85	246×500×120+203×326×85	(246×50))×120)×2	
′		Control box	mm	(334×284×111)×2 (334×284×111)×2 (334×284×		1×111)×2		
Net weight			kg	12.5+9	12.5+9	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 capacity of ex-factory Cooling		Cooling	kW	3.6	7.1	14	28	56			
CX-IdClOI y		Heating	kW	4 8		16	31.5	63			
	Capacity			28/36	45/56/71	90/112/140	224/280/335/400/450	504/560/840			
Adjustable	e capacity	Cooling	kW	2.8/3.6	4.5/5.6/7.1	9/11.2/14	22.4/28.0/33.5/40.0/45.0	50.4/56.0/84.0			
Heating		Heating	kW	3.2/4.0	5.0/6.3/8.0	10/12.5/16	25.0/31.5/37.5/45.0/50.0	56.0/63.0/94.5			
Power inp	out		W	8	8	8	8	8			
Power Su	pply		V/Ph/Hz		220-240/1/50 & 208-230/1/60						
Size of	AHU-KIT (ex- size)	-KIT (ex-factory pipe		Ф6.35	Ф9.52	Ф9.52	Ф9.52	Ф15.9			
connec-	Air handling	Liquid pipe		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			
ion pipe	unit	Gas pipe	mm	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					
Dutline di	mension	EXV box		203×326×85	203×326×85	203×326×85	203×326×85	246×500×120			
(W×D×F	1)	Control box	mm	334×284×111	334×284×111	334×284×111	334×284×111	334×284×111			
ackage	dimension (W	×D×H)	mm	539×461×247	539×461×247	539×461×247	539×461×247	759×645×180			
Net weight		kg	9.5	10	10	10	12.5				
Gross weight		kg	12.5	13	13	13	17				
40'GP		40'GP	set	981	981	981	981	702			
oading		40'HP	set	1090	1090	1090	1090	756			

Mod	del		GMV-N560U/C-T+GMV-N140U/C-T*	GMV-N560U/C-T+GMV-N280U/C-T*	GMV-N560U/C-1	-+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-iactory	Heating kW		110.5	126	157.5	189			
Power input		W	8+8	8+8					
Power supply		V/Ph/Hz		220-240/1/50 & 208-230/1/60					
A :- I 11: 14	Liquid pipe		19.05	19.05	19.05	19.05			
Air handling unit	Gas pipe	mm	38.1	38.1	41.3	41.3			
Outline dimension	EXV box		246×500×120+203×326×85	246×500×120+203×326×85	(246×5	00×120) ×2			
(W×D×H) 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

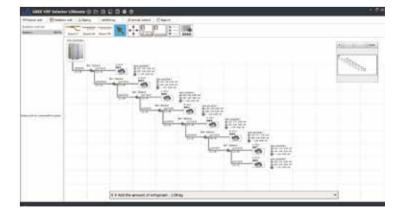
- 1) The system will take multiple aspects into consideration to provide clients with the optimal plan by combining performance, noise, comfort, reliability, cost, etc.
- 2) It can calculate according to user demand, ambient temperature, using location, static pressure, etc. to recommend the suitable 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.





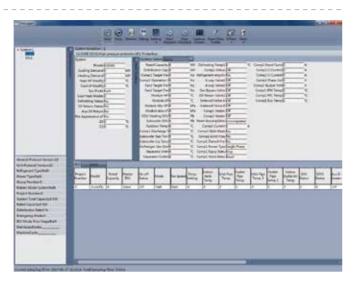


Intelligent Debugging Software

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;



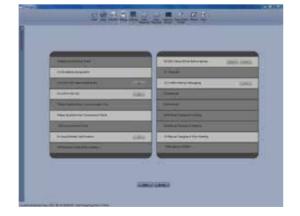
Control Functions

- 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.



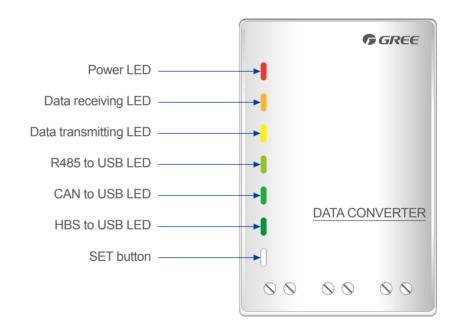


Step 1: Change Database Saving Path

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.

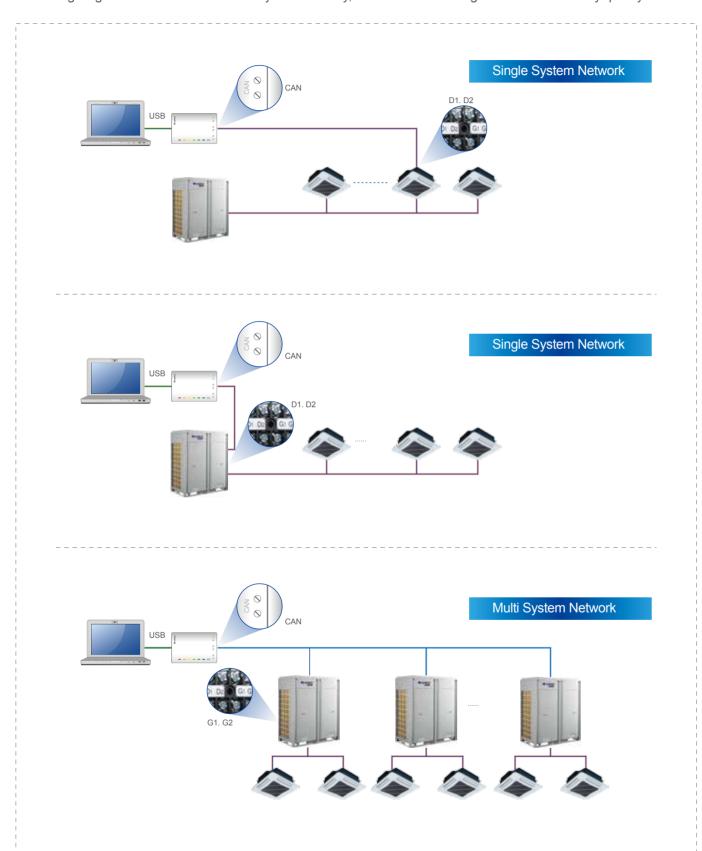






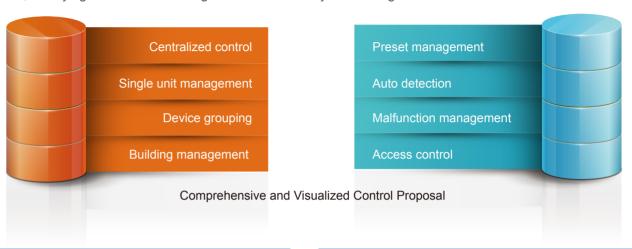
Auto Direction of Connection Way

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.

5 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.



Intelligent Multi-function Gateway



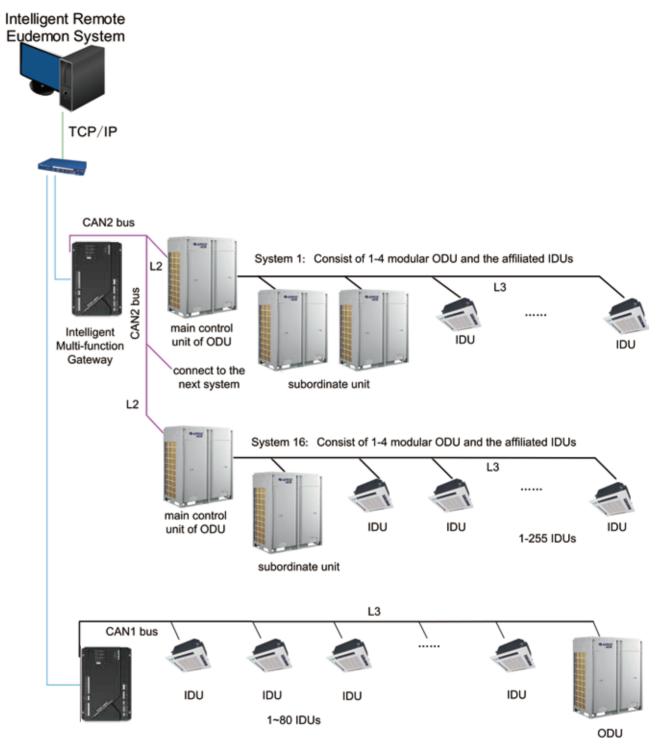
Dimension 265x207x56mm

Functional features

- The multi-function gateway integrates remote monitoring gateway with BACnet/IP protocol function.
 - 1.Ethernet interface, support TCP/IP and UDP functional protocol, can conduct real-time interaction with the upper-level unit;
 - 2.Support standard BACnet/IP protocol;
 - 3.User can self-define and collocate the gateway parameters for embedded webpage.



Distributed Structure



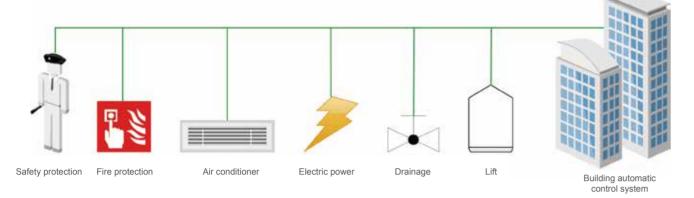
Noto:

- (1) 16 systems or 255 indoor units can be connected to one Intelligent Multi-function Gateway.
- (2) 16 Intelligent Multi-function Gateways 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 user:

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)

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

296×177×56mm



Dimension 90x55x20mm

Functional strong 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 90*55*20mm, 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;

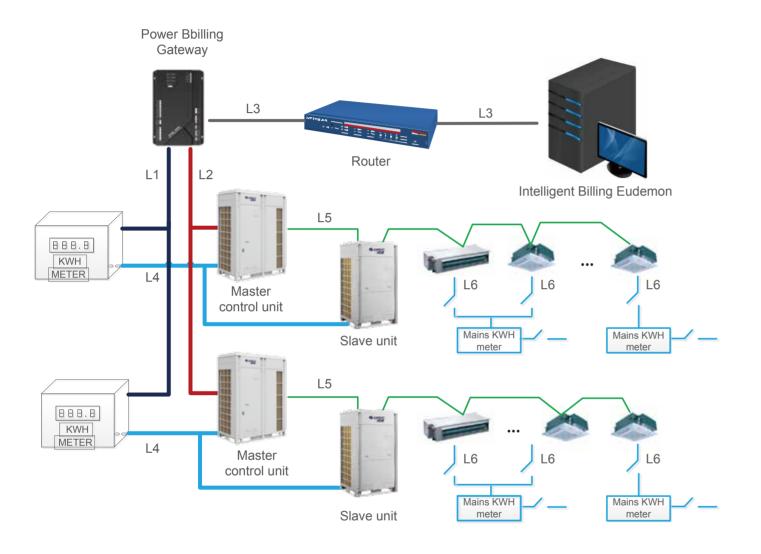
With ETL and CE certification

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



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 gateway and KWH meter;
- L2: CAN2 bus for communication between gateway and unit;
- L3: Cable;

- L4: ODU power supply cord;
- 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 Gateway;
- (2) 16 Power Billing Gateways 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 users.

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

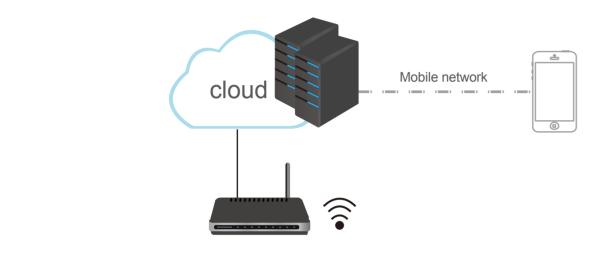
Note:

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

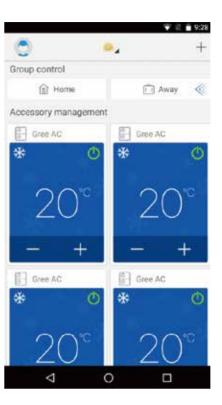
G-Cloud is a new generation WIFI smart controller of Gree commercial units. It adopts a way of operation different from remote control or wired control. It can display air conditioner running status directly to users, who can conduct point-to-point control over air conditioners through an APP. It is 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.

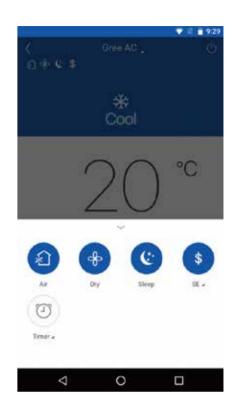




CAN1 network, multi VRF cloud control supports 80 indoor units in a single system, to realize long-distance control

System Chart





APP operation chart

Lightweight

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

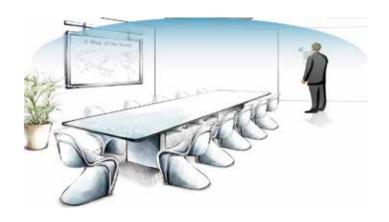


- Elegant and concise appearance;
- Touch buttons with back lighting LCD;
- Chinese and English display can be switched;
- With weekly timer function;
- Complete system functions with each function implemented in an individual page;
- Refreshing, auto dehumidifying, absence and other modes can be set;
- 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;



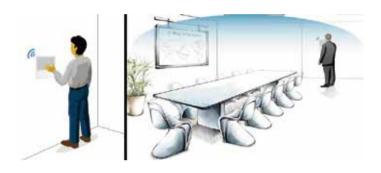
• Single control of one unit

Each indoor unit has an independent controller.



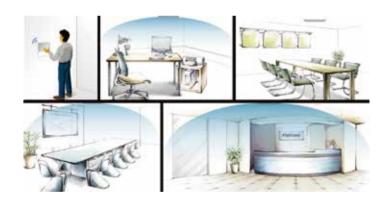
• Multiple control of one unit

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



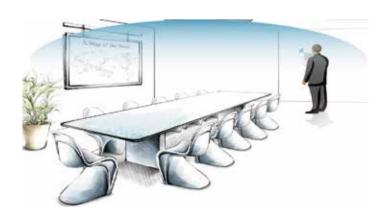
• Central control of several indoor units

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.

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

Central controller CE52-24/F(C)



mode, temp setting, fan speed, quiet, swing control, etc.); • Shielding function of single unit, group and all

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,

- IDUs (shielding on/off, mode, temp setting, etc.):
- 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;
- 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;

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 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.

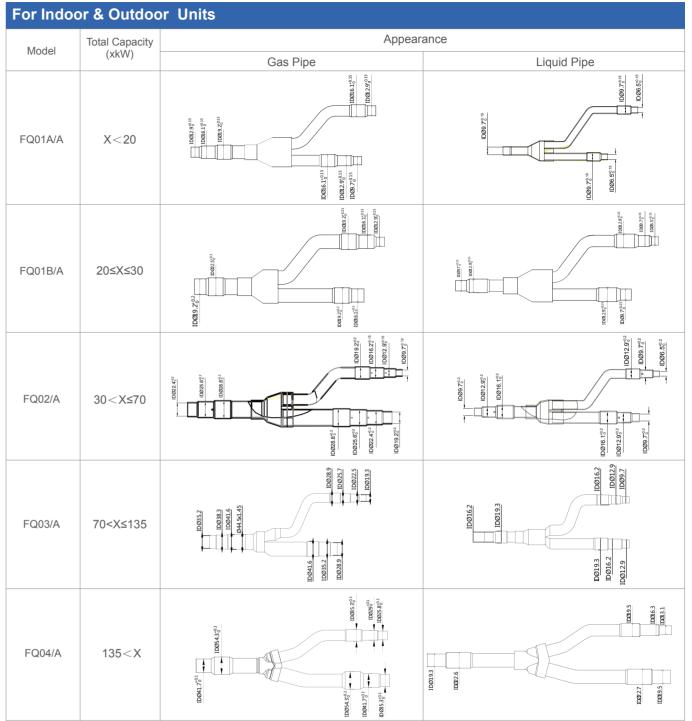


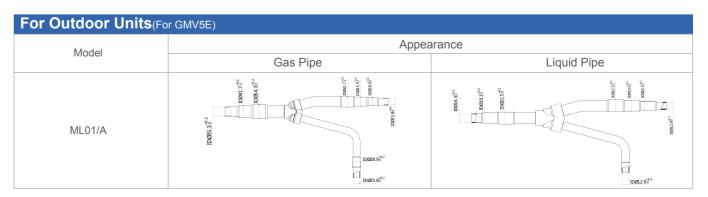
Control System Lineup

Controlling	g systems	Outdoor series		GMV5	GMV5 MINI	GMV5 SLIM	GMV5 Home	GMV Water	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)		0	0	0	0	0	0
	Gateway of building protocol	ME30-24/E6(M)	**********	0	0	0	0	0	0
		ME30-24/D4(B)		0	0	0	0	0	0
		FE11-24/D4(B)		_					0
Intelli	gent Billing Eudemon	ME11-24/D4(B)		0	0	0			0
G-Cloud		ME31-00/C3	B	0	0	0	0		0
Optoelectronic isolated Other converter		GD02		0	0	0	0		0
modules	Optoelectronic isolated signal mutliplier	RS485-W		0	0	0	0		0

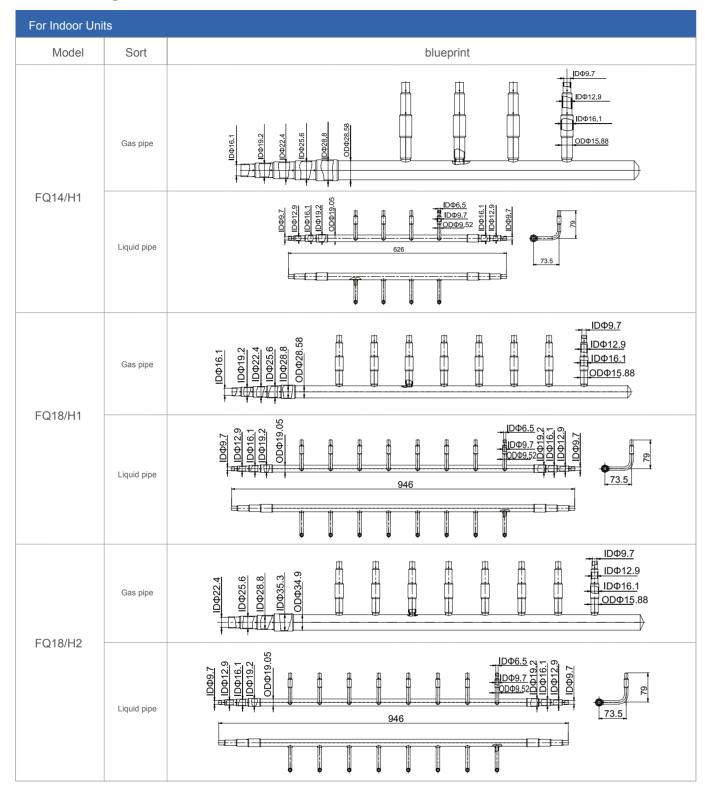
Controlling system	Indoors	eries	Cassette Type	(High ESP、 Low ESP、 Slim Ducted) Duct Type	Fresh Air Processing	Wall mounted Type	Floor Ceiling Type	Console Type	Floor Standing Type	Air Handler	Concealed Floor Standing Type
	YAP1F		•	0	0	•	•	•	•	0	0
Wireless Controller	YV1L1		0	0	0	0	0	0	0	0	0
	XK46		0	•	•	0	0	0	0	•	•
Wired controller	XK79		0	0	0	0	0	0	0	0	0
Wiled controller	XK55	28,18	0	0	0	0	0	0	0	0	0
	XK86	131	0	0	0	0	0	0	0	0	0
	JS05(receiver)	1		0	0						0
0.1.10.1.11	CE52-24/F(C)	2000 0000	0	0	0	0	0	0	0	0	0
Central Controller	CE57-24/F(C)	2000	0	0	0	0	0	0	0	0	0
Smart Zone Controller	CE53-24/F(C)		0	0	0	0	0	0	0	0	0
E-Smart Zone Controller	CE54-24/F(C)	RIA	0	0	0	0	0	0	0	0	0

▶ Branching Joint (For GMV5E and GMV5 Home)



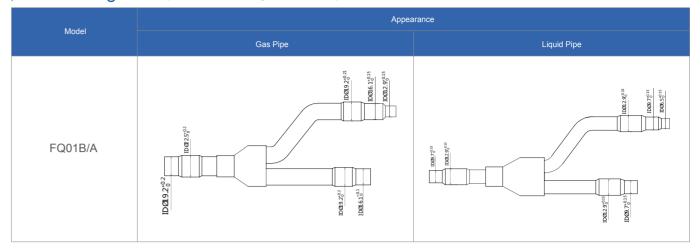


▶ Branching Joint (For GMV5E units)

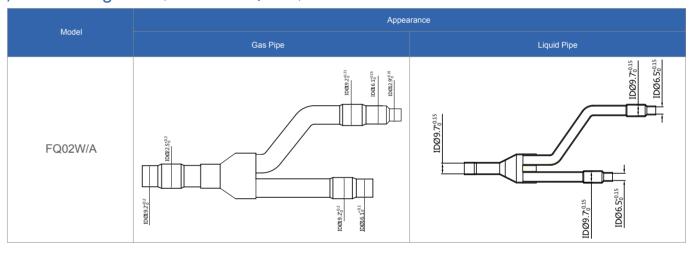


	Upstream	connection pipe dimension	Model of manifold pipe
Total rated capacity of downstream indoor units X(kW)	Gas pipe(mm)	Liquid pipe(mm)	
X≤40.0	≤Φ25.4	≤Φ12.7	FQ14/H1
X≤68.0	≥Φ28.6	≥Ф15.9	FQ18/H1
68.0 <x< td=""><td>≤Φ31.8</td><td>≤Φ19.05</td><td>FQ18/H2</td></x<>	≤Φ31.8	≤Φ19.05	FQ18/H2

▶ Branching Joint (For GMV5 Home Hydro box to IDU)



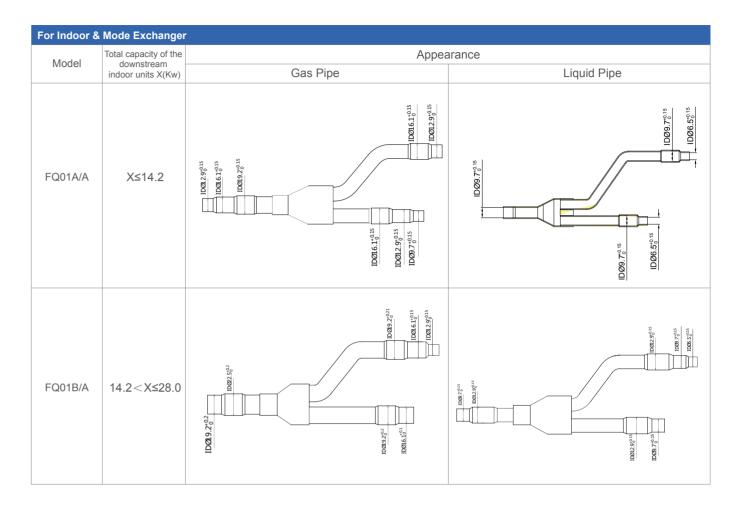
▶ Branching Joint (For GMV5 Home Hydro box)





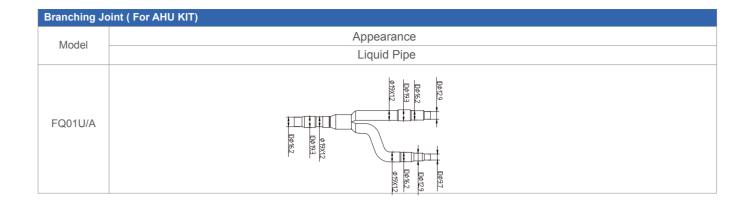
▶ Branching Joint (For GMV5 HR)

For Outdoo	r Units and Mode Ex	changer		
Model	Total capacity of the		Appearance	
Model	downstream indoor unit X(kW)	High-pressure gas pipe	Low-pressure gas pipe	Liquid pipe
FQ01Na/A	X≤5.0	DO129/IIS DO527/IIS DO6527/IIS DO6527/IIS	D0129 ⁽¹⁾ D0129 ⁽¹⁾ D0237 ⁽¹⁾ D037 ⁽¹⁾ D0557 ⁽¹⁾ D	D09.7% NB
FQ02Na/A	5.0 <x≤22.4< td=""><td> DO0129 DO128W1 DO129 D</td><td>DO162 DO162 DO163 DO163 DO163 DO163</td><td>DO9.7⁽⁶¹⁾ DO9.7⁽⁶¹⁾ DO9.7⁽⁶¹⁾ DO9.5⁽⁶¹⁾</td></x≤22.4<>	DO0129 DO128W1 DO129 D	DO162 DO162 DO163 DO163 DO163 DO163	DO9.7 ⁽⁶¹⁾ DO9.7 ⁽⁶¹⁾ DO9.7 ⁽⁶¹⁾ DO9.5 ⁽⁶¹⁾
FQ03Na/A	22.4 <x≤28.0< td=""><td> DO16.2 DO18.3 DO18.2 D</td><td>D022.472 D028.672 D028.872 D019.272 D019.272 D019.273 D019.274 D019.274</td><td>D09.7 gts D09.7 gts D09.7 gts D06.5 gts</td></x≤28.0<>	DO16.2 DO18.3 DO18.2 D	D022.472 D028.672 D028.872 D019.272 D019.272 D019.273 D019.274 D019.274	D09.7 gts D09.7 gts D09.7 gts D06.5 gts
FQ04Na/A	28.0 <x≤68< td=""><td>D022.4% D032.6% D032.8% D019.2% D019.2% D010.2% D010.2% D010.2% D010.2%</td><td>D032.4% D038.8½ D038.8½ D038.8½ D0019.2½ D0019.2½ D0019.2½ D0019.2½</td><td>D00.229/35 D00.229/35 D00.229/35 D00.229/35 D00.25/35 D00.25/35</td></x≤68<>	D022.4% D032.6% D032.8% D019.2% D019.2% D010.2% D010.2% D010.2% D010.2%	D032.4% D038.8½ D038.8½ D038.8½ D0019.2½ D0019.2½ D0019.2½ D0019.2½	D00.229/35 D00.229/35 D00.229/35 D00.229/35 D00.25/35 D00.25/35
FQ05Na/A	68 <x≤96< td=""><td> D023.6 42 D035.6 42 D035.6 42 D033.8 42 D033</td><td> DO3152 DO3164 DO3164 DO3164 DO3164 DO3165 D</td><td> DO16.2 DO16.2 DO16.2 DO16.2 DO16.2 DO16.2 DO12.9 D</td></x≤96<>	D023.6 42 D035.6 42 D035.6 42 D033.8 42 D033	DO3152 DO3164 DO3164 DO3164 DO3164 DO3165 D	DO16.2 DO16.2 DO16.2 DO16.2 DO16.2 DO16.2 DO12.9 D
FQ06Na/A	96 <x≤135< td=""><td>10085.2 100016 100016 10003.3 10003.3 10003.3</td><td> D0352 D0318 D031</td><td>DO16.2 DO15.3 DO16.2 DO15.3 DO15.3 DO15.3 DO15.3</td></x≤135<>	10085.2 100016 100016 10003.3 10003.3 10003.3	D0352 D0318 D031	DO16.2 DO15.3 DO16.2 DO15.3 DO15.3 DO15.3 DO15.3
FQ07Na/A	135.0 <x< td=""><td>D0833 42 D0012 421 D0013 42 D0013 42 D0013</td><td>D0813 % D0117 % D0117</td><td> DO1324²³ DO338²³ DO338²³ DO338²³ DO338²³ DO338²³ DO328²³ DO3</td></x<>	D0833 42 D0012 421 D0013 42 D0013	D0813 % D0117	DO1324 ²³ DO338 ²³ DO338 ²³ DO338 ²³ DO338 ²³ DO338 ²³ DO328 ²³ DO3



For Outdoor Uni	its								
Model	Module's capacity	Appearance							
	X(kW)	High-pressure gas pipe	Low-pressure gas pipe	Liquid pipe					
ML01R	50.4≤X≤96	D83.3 %	7 - 7 - 6 - 6 - 6 - 6 - 6 - 6 - 6 - 6 -	150 E3000 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					
ML02R	96 <x< td=""><td>100833 42 100117 42 10043 42</td><td>D003.8 % 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td><td>D00224²² D00328²² D00328²² D00228²³ D00229²² D00224²³ D00224²³ D00224²³ D00224²³ D00224²³</td></x<>	100833 42 100117 42 10043 42	D003.8 % 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	D00224 ²² D00328 ²² D00328 ²² D00228 ²³ D00229 ²² D00224 ²³ D00224 ²³ D00224 ²³ D00224 ²³ D00224 ²³					

Reducer/expander pipe dimens	ions		
CF333(54/45) ODØ 53.9	CF334(41/38)	CF335(35/32) 00Ø34.9	CF342(13/10)
CF336(35/29)	CF337(29/25)	CF338(26/22)	CF343(13/6)
CF339(26/19)	CF340(19/16)	CF341(16/13)	CF344(10/6)
CF345(13/16) ODØ 12.6	CF346(16/19)	CF347(19/22)	CF348(23/25)
CF349(29/32)			





ERV+DX Coil



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



Fasier

maintainability

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	7.8(3.8)	7.8(3.8) 12.5(6.1) 15.6(
Heating Capacity				6.3(3.2)	10(5)	12.5(6.3)				
Power input			kW	0.3	0.5	0.66				
Current input			А	5	5 10					
	Airflow volume		CFM	294	471	589				
	Almow volume		m³/h	500	800	1000				
	ESP	ESP Rated		150	150	150				
Indoor unit	Thermal exchange efficier	Thermal exchange efficiency		73	73	73				
indoor unit	Sound power level		dB(A)	38	38	40				
	Dimension	Outline	mm	1700x885x340	1800x1185x390	1800x1185x390				
	(WxDxH)	Package	mm	1900x1085x540	2000x1385x590	2000x1385x590				
	Net weight/Gross weight		kg	130/155	180/205	180/205				
Ventiduct	Outer diameter		mm	200	250	250				
Loading 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.



Noto	Note
Note ————————————————————————————————————	Note

Note	

Award and Certification































German TÜV Certificate















Δ TÜV











China EMC Certificate













Australian SAA Safe Certificate



