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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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Distributor information



Gree Photovoltaic Direct-driven Inverter Multi VRF System

MADE IN CHINA
LOVED BY THE WORLD



Gree Electric Appliances, Inc. of Zhuhai, founded in 1991, is a diversified international industrial group, whose business covers residential air conditioners, central air conditioners, intelligent equipments, home appliances, air source water heaters, smart phones, refrigerators, etc.

- Since 2005, Gree has topped No.1 in production and sales volume of residential air conditioners for 13 consecutive years.
- 2015, Gree's sales revenue exceeded 15.08 billion USD.
- 2016, sales revenue exceeded 16.51 billion USD.
- 2017, sales revenue exceeded 22.21 billion USD.
- 2018, Gree entered into the list of Forbes Global 2000 again and ranked No. 294, moving up 70 places compared with the previous year.

Gree has paid some 14.26 billion USD in total tax, being the No.1 in terms of tax payment in the Chinese home appliances industry for 16 consecutive years.

Thanks to 300 million users' choices, Gree products are widely sold in more than 200 countries and regions. Today Gree's annual production capacity of RAC and CAC is more than 60 million and 5.5 million sets respectively.

Action makes the future and innovation makes achievement. Looking forward, Gree will press ahead with its business philosophy of passion, innovation and realization. We aim to build an air conditioning enterprise of some hundred year's standing, to create a better life for humankind.



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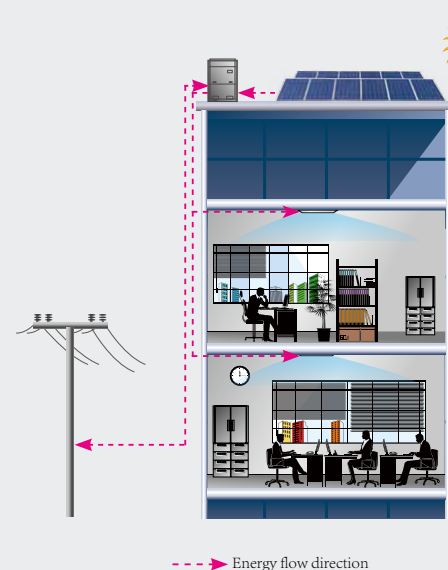
Zero Electricity Charge*--Photovoltaic Direct-driven Technology

Gree has been working on the research and reformation of air conditioning technology. Gree Photovoltaic Direct-driven Inverter Multi VRF System breaks through tradition, combining photovoltaic power generation with power consumption of air conditioner for the first time.

*Condition of zero electricity charge: photovoltaic generated power \geq air conditioner consumption demand.

Zero electricity charge means when the power generated by solar power photovoltaic battery sub-assy completely meets the load of unit in operation, grid power is not needed, so there is no electricity charge.

1 Seamless Integration of PV Power and Air Conditioner, with Power Generation Function



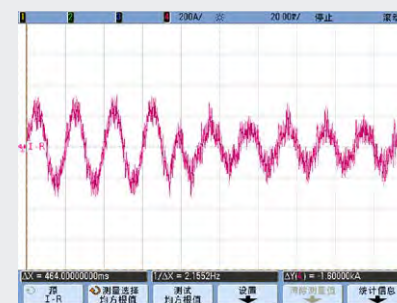
By adopting advanced photovoltaic direct-driven technology, the system can achieve power generation by utilizing solar power while consuming electricity and ensure utilization of photovoltaic power in priority; compared with traditional photovoltaic system, energy wastage during multiple commutation of alternating current and direct current is eliminated, with energy efficiency improved by 6%-8% and photovoltaic utilization ratio up to 99%; besides, the innovative MPPT(Maximum Power Point Tracking) technology can track and control the maximum power point status of photovoltaic power generation, so as to achieve maximum utilization of photovoltaic power.

Zero Wastage--Ternary Converting Technology

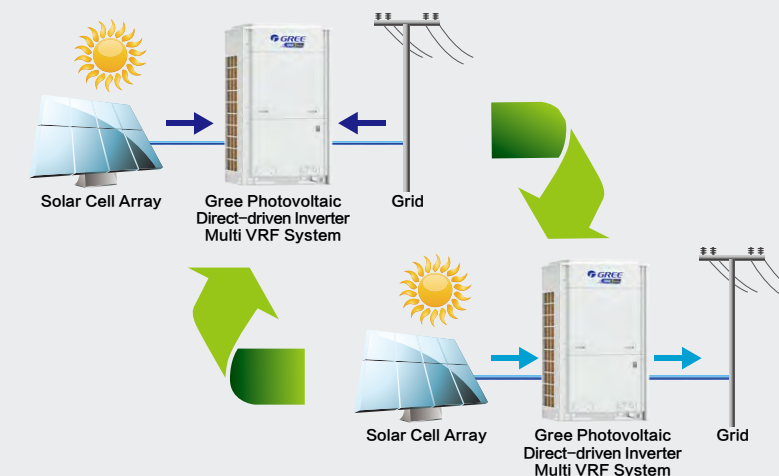
Gree Photovoltaic Direct-driven Inverter Multi VRF System can not only achieve zero electricity charge, but also generate power to the grid, benefiting energy conservation and emission reduction.

1 Instant Switchover for Punctual Power Generation

Ternary converting model, consisting of photovoltaic sub-assy, multi VRF system and grid, enables two-way flow and multiple-way integration of power at the direct current side. The switchover time among five operation modes is less than 10ms, avoiding power wastage due to switchover delay.

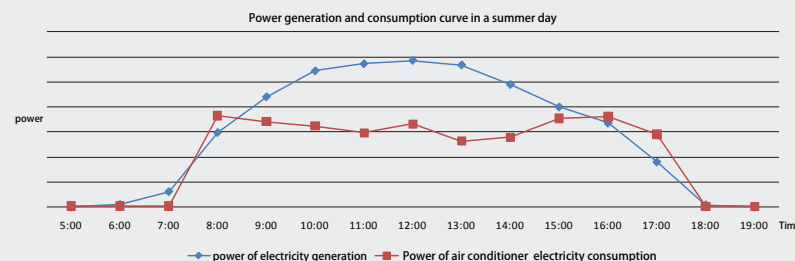


Oscillogram of instant switchover



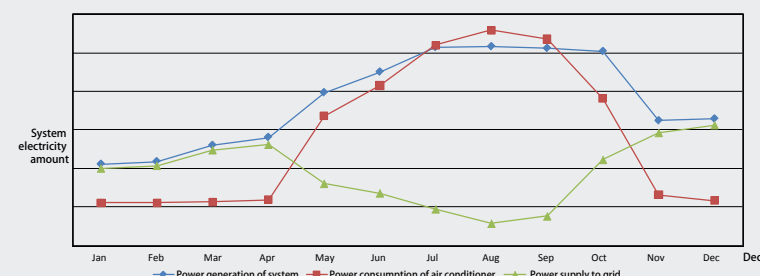
2 High Utilization Ratio

In summer, power consumption of air conditioner is large and photovoltaic power generation is relatively large as well. Gree Photovoltaic Direct-driven Inverter Multi VRF System, combining the characteristics of photovoltaic power, makes sure that the consumed electricity of units matches with the photovoltaic power generation so as to achieve zero electricity charge.



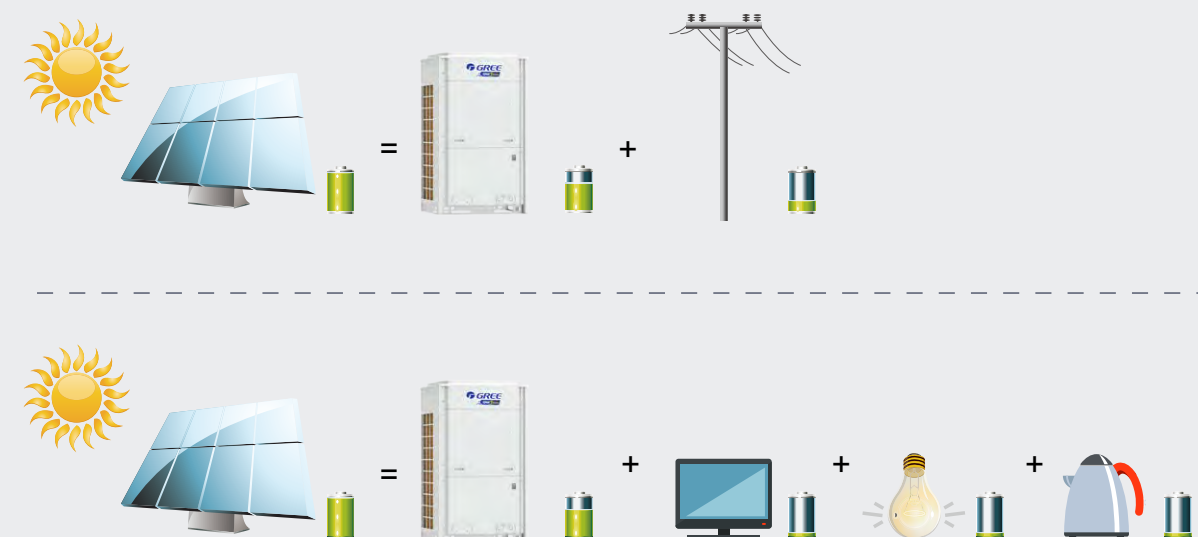
3 Zero Power Consumption from Grid

In rated engineering proportion, the power amount that Photovoltaic Direct-driven Inverter Multi VRF System gets from the grid is balanced with the power amount that the system delivers to the grid in each day, each month, each quarter and each year. Generally, power consumed from the grid is zero.



2 No Wastage of Residual Power

If there is residual power after meeting air conditioner consumption demand, the system can deliver the residual power to the grid in real time, so as to realize complete utilization of photovoltaic power.

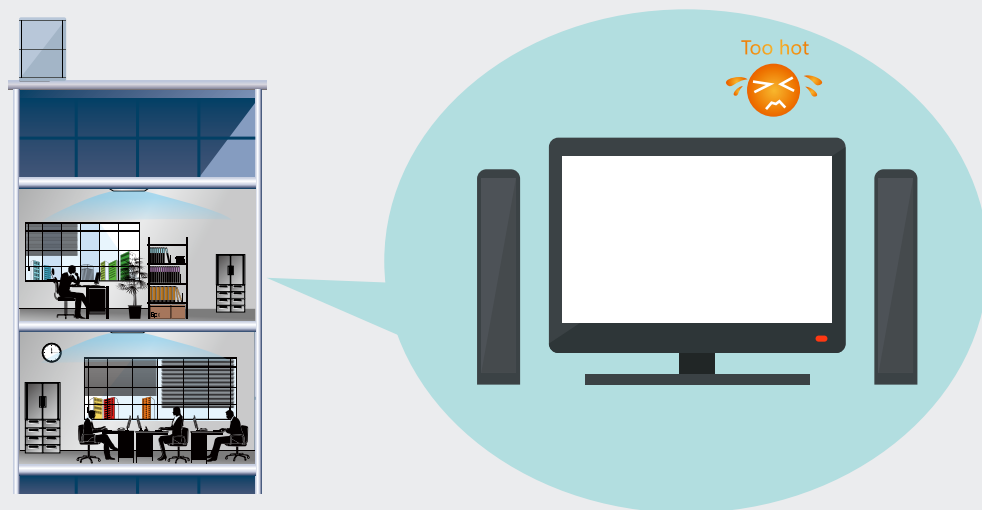


Green Inverter Technology

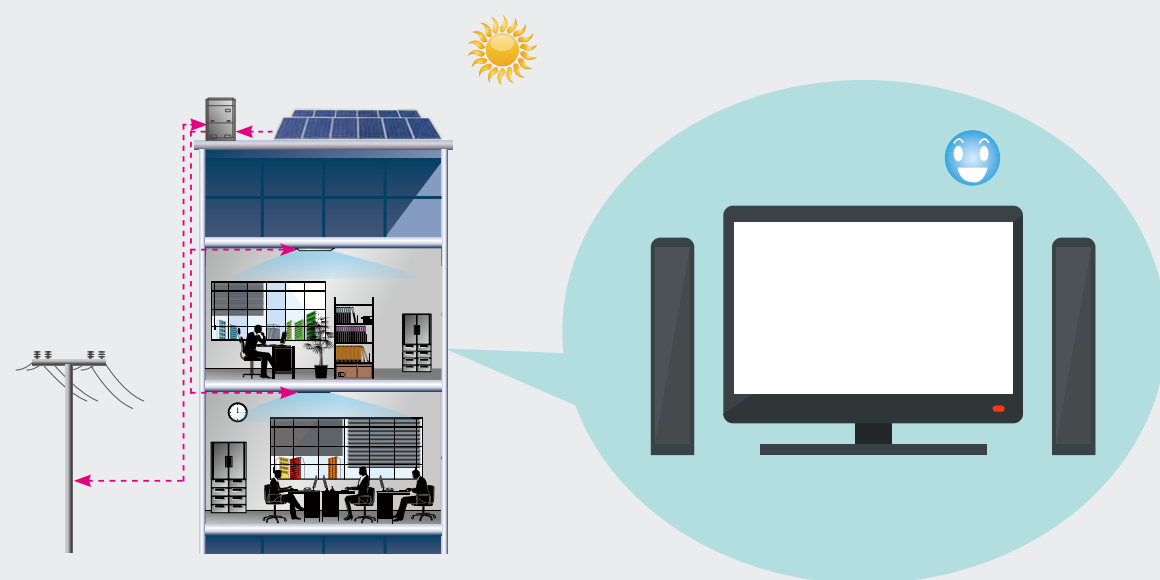
After many years of development and tests, Gree Photovoltaic Direct-driven Inverter Multi VRF System is capable of providing more reliable and more assured refrigeration service for its technological innovation.

1 No Interference from Other Electric Appliances in the Room

By adopting advanced photovoltaic direct-driven technology, the system can achieve power generation by utilizing solar power while consuming electricity and ensure utilization of photovoltaic power in priority; compared with traditional photovoltaic system, energy wastage during multiple commutation of alternating current and direct current is eliminated, with energy efficiency improved by 6%-8% and photovoltaic utilization ratio up to 99%; besides, the innovative MPPT(Maximum Power Point Tracking) technology can track and control the maximum power point status of photovoltaic power generation, so as to achieve maximum utilization of photovoltaic power.



Conventional system is applied



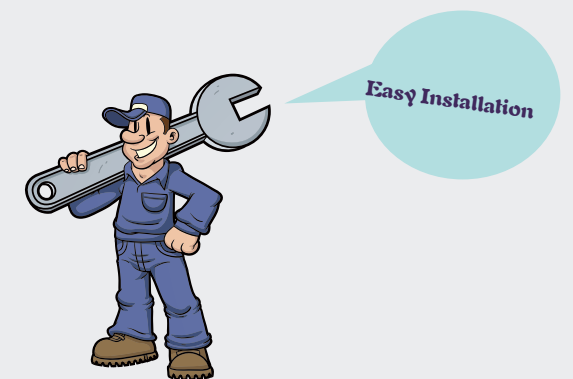
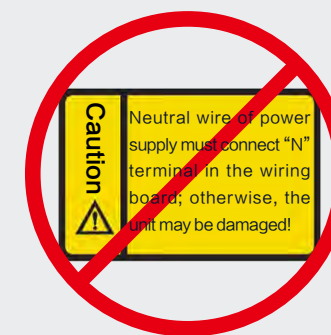
Four-quadrant commutation technology, low harmonic wave content and no interference

2 Easy Maintenance

Gree Photovoltaic Direct-driven Inverter Multi VRF System adopts low-voltage DC component instead of traditional high-voltage AC component, which effectively ensures safety and greatly reduces hazards of electric shock during operation and maintenance. Application of low-voltage DC component and DC loop topology greatly lowers arcing and fire hazards caused by circuit aging and improves EMC performance.

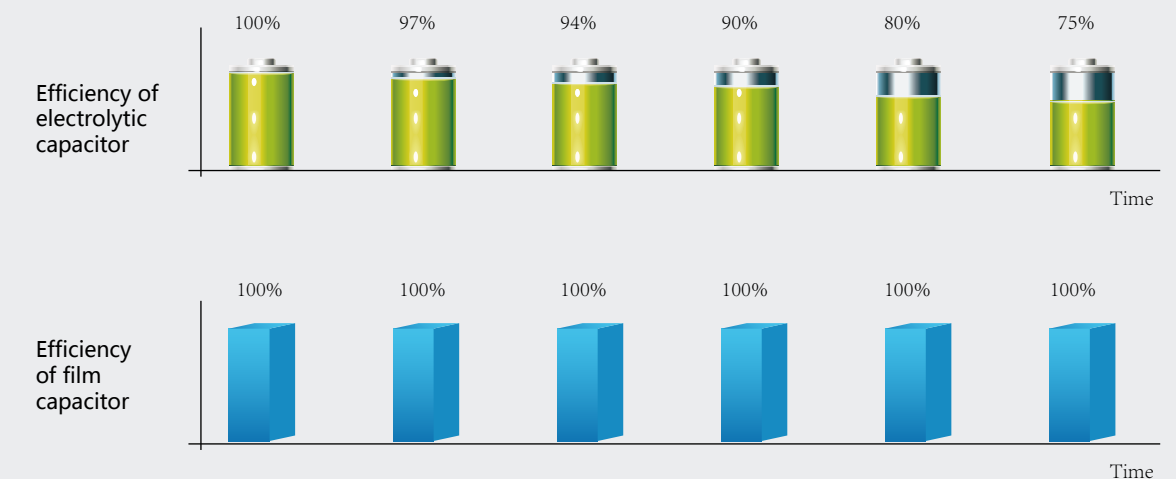
3 Easy Installation

The system applies low-voltage power distribution circuit and cancels neutral wire, which eliminate the impact of phase sequence and prevent wrong phase sequence connection and virtual connection of neutral, etc. Meanwhile, engineering adaptability of unit is extended and engineering installation cost is reduced.



4 Long Lifespan

Film capacitor has many advantages, such as high voltage resistance, no polarity, high impulse voltage endurance, etc. The system adopts film capacitor instead of electrolytic capacitor for longer lifespan.



> Three Components

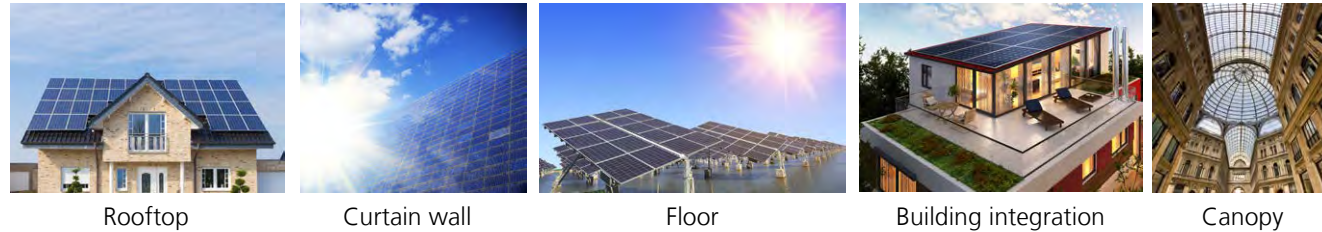
Gree Photovoltaic Direct-driven Inverter Multi VRF System consists of photovoltaic power generation system, photovoltaic direct-driven inverter multi VRF and intelligent management system. This system is with high density of integration, which is widely applicable for houses, office buildings, factories, hospitals, etc. Meanwhile, the building that is already equipped photovoltaic system and air conditioner can be integrated and reconstructed.

Zero Worry--Green Inverter Technology

Photovoltaic power generation system is the power generation element in Photovoltaic Direct-driven Inverter Multi VRF System. The clean energy provided by this power generation system will supply power to the main unit and deliver residual power to the grid through converter.

Photovoltaic power generation system is closely related to the installation site and user's building. Gree can design the most suitable photovoltaic power generation system for you according to local climate, user's building structure, cooling capacity demand and your special requirements.

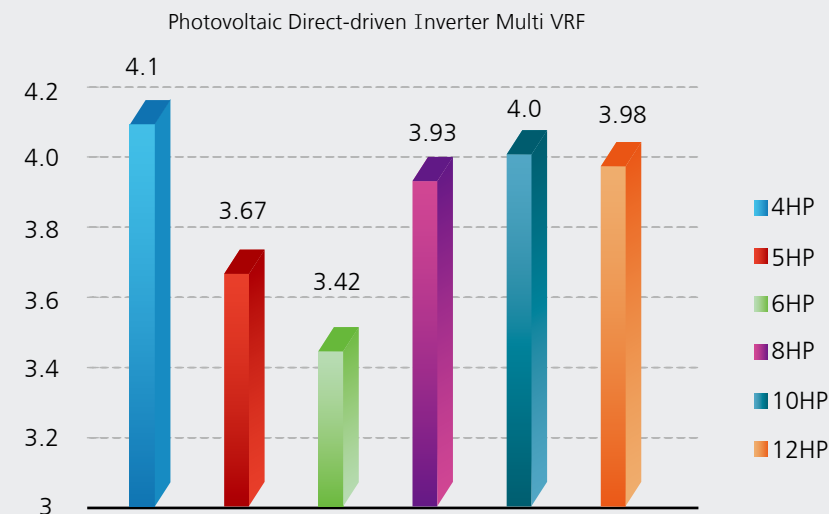
Photovoltaic Power Generation System



Photovoltaic Direct-driven Inverter Multi VRF

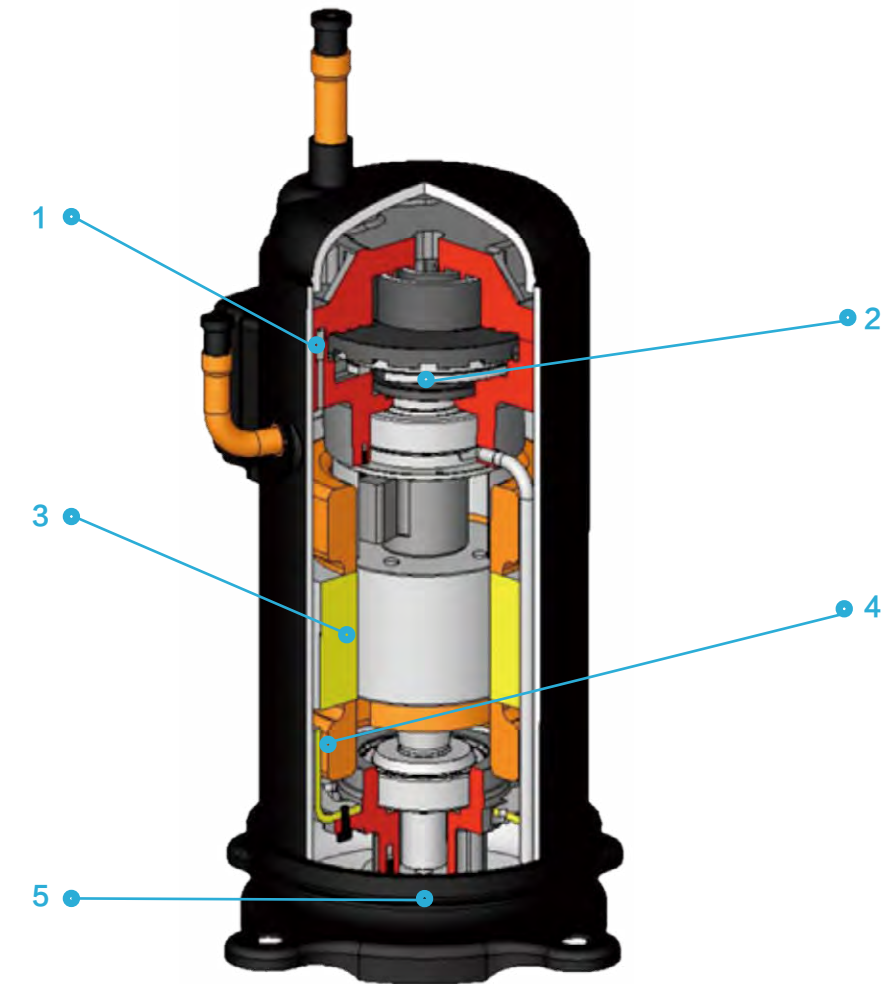
1 Energy Saving in Priority. Greatly Reduce Electricity Charge

The multi VRF system in photovoltaic multi VRF system inherits the essence of multi VRF development in Gree for more than a decade. The system integrates the advanced 180° sine wave high-efficiency compressor driver technology, 1Hz PID capacity regulation technology, intelligent defrosting, precise refrigerant allocation technology, high-efficiency heating technology, quiet control technology and intelligent operation technology, etc. The system can be widely applied in various commercial places for providing energy-saving and comfortable air conditioning environment to global users.



Note: Above data is EER value.

High-efficiency All DC Inverter Compressor



1. Asymmetrical Vortex Line

Asymmetrical vortex line is adopted to reduce leakage loss and invalid suction overheating.



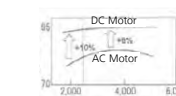
2. Non-Contact Oil Seal

Axial direction and radial direction of compression cavity adopts non-contact oil seal to reduce attrition and improve efficiency and reliability.



3. Permanent Magnet Synchronous DC Motor

Rare earth is adopted in the rotor and the shape is optimized, so as to achieve wide frequency, high efficiency and low noise.

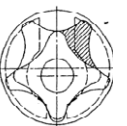


4. 180° Sine Wave DC Inverter Driver

Stepless sine wave output by inverter drives DC inverter to achieve high-efficiency stepless DC frequency conversion, which improves motor efficiency.

5. Positive-DC Displacement Gear Oil Pump

Positive-displacement gear oil pump ensures necessary oil supply in high&low frequency and high reliability of compressor.

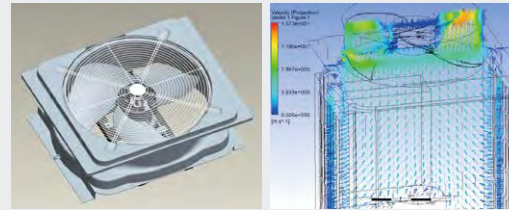


2 Quiet Control for Building High-Quality Life

Gree Photovoltaic Direct-driven Inverter Multi VRF System sufficiently considers people's demand for comfort, upgrading comfort with user-friendly technology. The system is capable of wider operation range and lower operation noise.

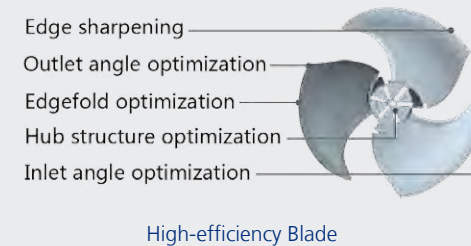
► Optimized River Diversion Shell Design

After tens of thousands times of CFD simulation, new fan river diversion shell structure is developed to reduce vibration of river diversion ring in high-speed operation of fan. Compared with conventional design, noise value can be reduced by 3dB(A).



► High-Efficiency 3D Axial Blade

The new high-efficiency axial blade is designed with optimized blade outline and better edge curve. Compared with conventional blade, it can increase air volume by 12%, improving efficiency as well as lowering noise.



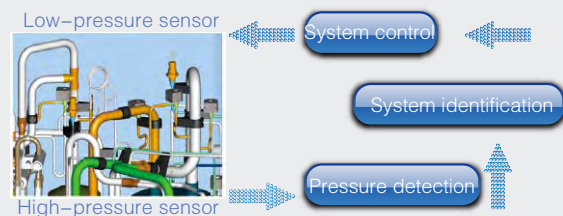
High-efficiency Blade

3 Excellent Performance Ensured by Advanced Technology

Gree Photovoltaic Direct-driven Inverter Multi VRF System provides reliable performance through several mature technologies such as two-stage oil separation control technology, oil return control technology, oil balance control technology and sub-cooling control technology.

► Pressure Sensor Detection Control Technology

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 to ensure stable operation.

Intelligent Management System

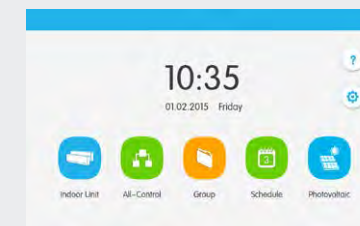
The centralized controller for power generation and consumption management is the brain of Photovoltaic Direct-driven Inverter Multi VRF System. It adopts the perfect combination of multi VRF intelligent network system and power generation and consumption management system based on CAN communication technology, so as to achieve intelligent management of multi VRF system.



CE55-24 F(C) (optional)

► Centralized Controller for Power Generation and Consumption Management: One Screen for Convenient Operation

Centralized controller for power generation and consumption management combines photovoltaic power generation, unit power consumption and grid power supply for power management with centralized control of unit, achieving intelligent management of multi VRF system. Photovoltaic parameter inquiry and real-time display of power generation and consumption data are available. You can see photovoltaic power generation, unit power consumption, monthly electricity consumption and yearly electricity consumption. Power curve of the system is shown in real time and updated dynamically.

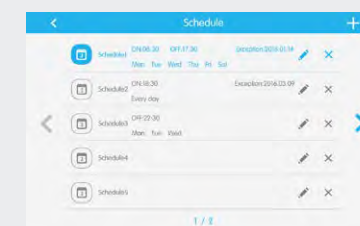


► Reliable Multi VRF Intelligent Network System Based on CAN Bus Technology

The multi VRF intelligent network system adopts Gree patented multi VRF CAN non-polar bus communication technology, which features high stability, convenient networking and high communication efficiency.

► Intelligent Management of Air Conditioning System for Centralized Management and Convenience

Centralized controller for power generation and consumption management provides intelligent control management of the air conditioner of photovoltaic multi VRF system, with complete functions and convenient operation.

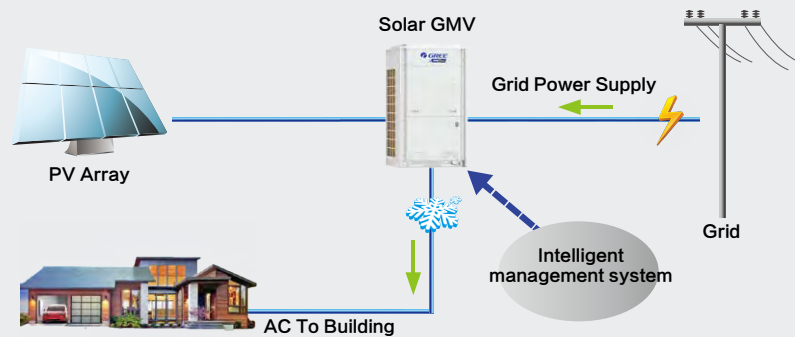


> Five Working Modes

The system can realize real-time switchover for five working modes according to the actual status of photovoltaic power generation system and operation of multi VRF system.

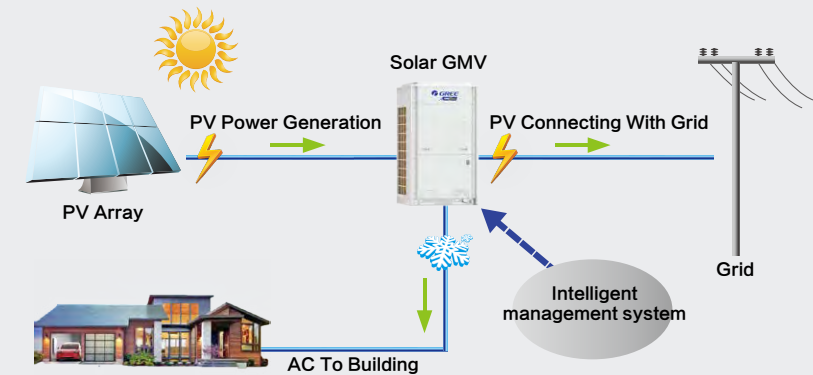
1 Air Conditioning Mode

When photovoltaic power generation system doesn't work, the system is powered by commercial power. In this case, the system equals to an inverter VRF system.



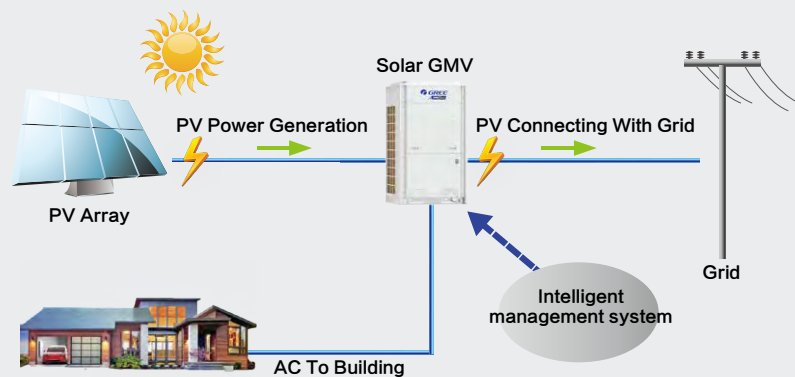
4 Photovoltaic Air Conditioning & Power Generation Mode

When photovoltaic generated power is more than air conditioner consumption demand, photovoltaic power will give priority to the air conditioner, and then the residual power will be sent to the grid.



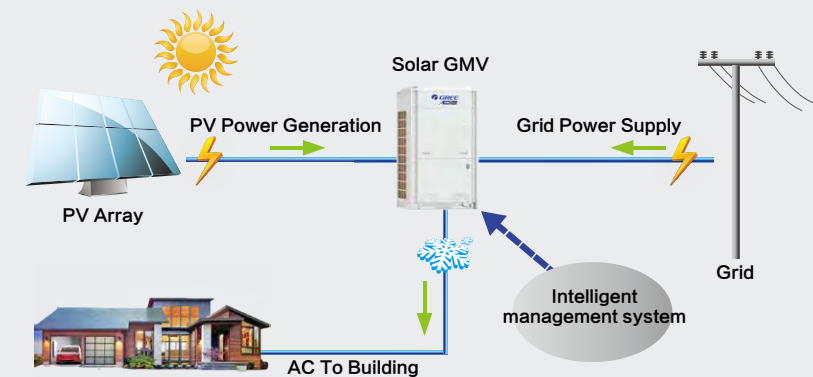
2 Photovoltaic Power Generation Mode

When the air conditioner stops operation, the power generated by the photovoltaic power generation system is sent to the grid. In this case, the system equals to a power station.



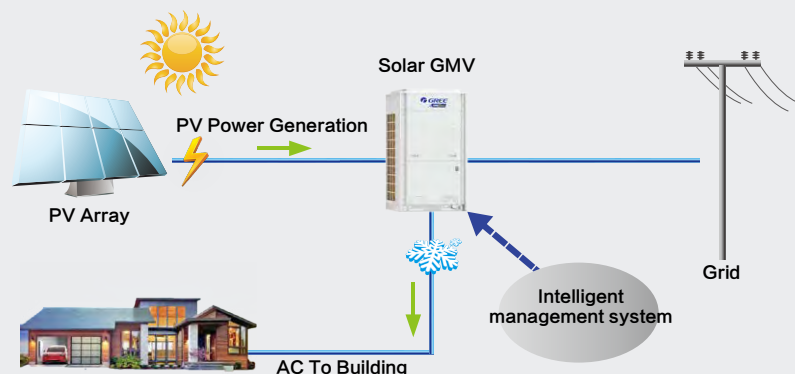
5 Photovoltaic Air Conditioning & Power Consumption Mode

When photovoltaic generated power is less than the air conditioner consumption demand, air conditioner will draw power from the grid in addition to the photovoltaic power generation system.



3 Photovoltaic Air Conditioning Mode

When photovoltaic generated power is equal to the air conditioner consumption demand, the air conditioner consumes photovoltaic power only.



Gree Photovoltaic Direct-driven Inverter Multi VRF System can realize real-time switchover for five working modes according to the actual status of photovoltaic power generation system and operation of multi VRF system for ensuring high-efficiency utilization of photovoltaic power and reliable operation.

GMV5 Solar Mini

Gree GMV5 Solar Mini adopts inverter compressor technology, with capacity range from 4HP to 6HP. It has a broad product lineup and is widely applicable to places such as residential houses, apartments and office buildings.



4/5/6 HP



XK46



YAP1F



All DC inverter technology



Energy saving function



Quiet function



Long connection pipe design

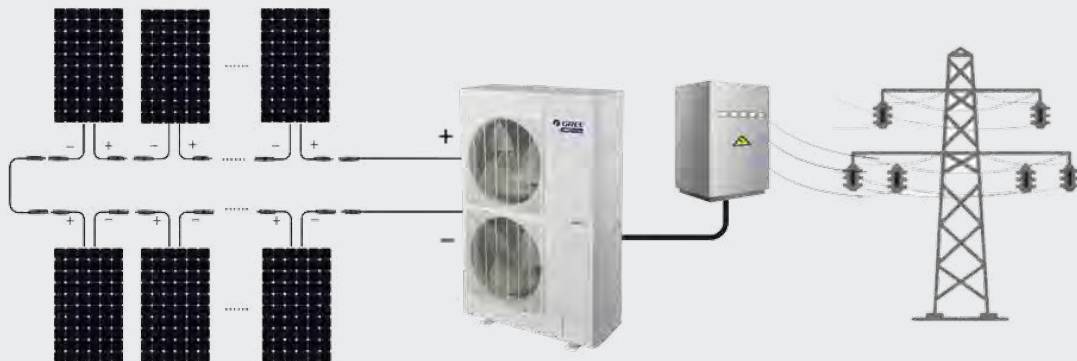


Wide operation range



Comprehensive protection

- PV and air conditioner are combined perfectly; air conditioner also has the power generation function.
- The characteristics of power consumption of air conditioner is well matched with that of PV power generation, with high power generation/consumption ratio.
- Instant switch-over between power generation and power consumption.
- Real-time grid-connected, no waste of electricity.
- Green inverter, no interference to other indoor electric appliances.
- Low voltage and direct current for electric parts, safe for maintenance.
- High efficiency and energy-saving, cutting the electric bill greatly.



Note: This electric cabinet must be with bidirectional rectification function.

Specifications


Model			GMV-Y120WL/A-T	GMV-Y140WL/A-T	GMV-Y160WL/A-T
Capacity range		HP	4	5	6
Capacity	Cooling	kW	12.30	13.95	15.75
	Heating	kW	13.95	16.50	18.00
Cooling power input		kW	3.0	3.8	4.6
Heating power input		kW	3.3	4.0	4.7
EER/COP		kW/kW	4.10/4.23	3.67/4.12	3.42/3.83
Air flow volume		m ³ /h	6000	6300	6600
Power supply		V/Ph/Hz	220-240/208-230/1/50/60		
Range of allowable open circuit input voltage		V	392 ~ 490	392 ~ 490	392 ~ 490
Bus operating voltage		V	314 ~ 420	314 ~ 420	314 ~ 420
Max. solar short circuit current		A	27	27	27
Recommended quantity of solar panel *Base on Yingli model YL325D-36b		/	12	12	12
Maximum drive IDU NO.		unit	7	8	9
Refrigerant charge volume		kg	3.3	3.3	3.3
Sound pressure level		dB(A)	59	60	60
Connecting pipe	Liquid	inch(mm)	Φ3/8(9.52)	Φ3/8(9.52)	Φ3/8(9.52)
	Gas	inch(mm)	Φ5/8(15.9)	Φ5/8(15.9)	Φ3/4(19.05)
Dimension (WxDxH)	Outline	mm	900×340×1345	900×340×1345	900×340×1345
	Package	mm	998×458×1500	998×458×1500	998×458×1500
Net weight/Gross weight		kg	121.5/134.5	121.5/134.5	121.5/134.5
Loading quantity	40' GP	set	57	57	57
	40' HQ	set	57	57	57

GMV5 Solar

Gree GMV5 Solar adopts inverter compressor technology, with capacity range from 8HP to 12HP. It has a broad product lineup and is widely applicable to places such as residential houses, apartments and office buildings.




8/10 HP



12 HP



XK46



YAP1F




All DC inverter technology



Energy saving function




Quiet function



Long connection pipe design



Wide operation range



Comprehensive protection

- With LAN reverse power control technology; efficiency of PV power generation/consumption is more than 99%.
- Active grid configuration, automatically indentifying 208V/230V/380V/415V and 50Hz/60Hz and other global power supply type.
- Adopt innovative multi-level topology; grid harmonic is as low as 2%.
- Adopt high-efficiency DC inverter compressor for realizing broadband operation, high efficiency and low noise.
- Adopt all new aluminum plastic design, with stronger heat dissipation capability and longer service life (components).
- Adopt modular design concept for the unit’ s structure to realize fast-assembly as well as fast-disassembly for all parts.
- The build-in smart energy control module can freely connects to Gree self-developed Information Energy Management System (IEMS) for smart energy distribution.
- Can connect with GreePower power storage unit for power supply at night.



Note:This electric cabinet must be with bidirectional rectification function.

Specifications

Model			GMV-Y224WM/C-X*	GMV-Y280WM/C-X*	GMV-Y335WM/C-X*
Capacity range		HP	8	10	12
Capacity	Cooling	kW	22.40	28.00	33.50
	Heating	kW	25.00	31.50	37.50
Cooling power input		kW	5.7	7.0	8.41
Heating power input		kW	5.5	7.3	9.0
EER/COP		kW/kW	3.93/4.24	4.00/4.32	3.98/4.17
Air flow volume		m³/h	11400	11400	14000
Power supply		V/Ph/Hz	380-415V-3Ph~50/60Hz		
Range of allowable open circuit input voltage		V	1000	1000	1000
Range of input operating voltage		V	560~780	560~780	560~780
Max. solar short circuit current		A	39	39	39
Recommended quantity of PV module base on Gree Module GIE-M60/290		/	22/44/66/88	22/44/66/88	22/44/66/88
Maximum drive IDU NO.		unit	13	16	19
Refrigerant charge volume		kg	5.9	6.7	11.3
Sound pressure level		dB(A)	60	61	63
Connecting pipe	Liquid	inch(mm)	Φ3/8(9.52)	Φ3/8(9.52)	Φ3/8(12.7)
	Gas	inch(mm)	Φ3/4(19.05)	Φ7/8(22.2)	Φ1(25.4)
Dimension (WxDxH)	Outline	mm	930×765×1605	930×765×1605	1340×765×1605
	Package	mm	1010×840×1775	1010×840×1775	1420×840×1775
Net weight/Gross weight		kg	266/278	266/278	340/355
Loading quantity	40' GP	set	24	24	16
	40' HQ	set	24	24	16

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

ODU Combination Lineup

Model	GMV-Y224WM/C-X(8HP)	GMV-Y280WM/C-X(10HP)	GMV-Y335WM/C-X(12HP)
GMV-Y448WM/C-X(16HP)	● ●		
GMV-Y504WM/C-X(18HP)	●	●	
GMV-Y560WM/C-X(20HP)		● ●	
GMV-Y615WM/C-X(22HP)		●	●
GMV-Y670WM/C-X(24HP)			● ●
GMV-Y728WM/C-X(26HP)	● ●	●	
GMV-Y840WM/C-X(30HP)		● ● ●	
GMV-Y895WM/C-X(32HP)		● ●	●
GMV-Y950WM/C-X(34HP)		●	● ●
GMV-Y1005WM/C-X(36HP)			● ● ●
GMV-Y1064WM/C-X(38HP)	●	● ● ●	
GMV-Y1120WM/C-X(40HP)		● ● ● ●	
GMV-Y1175WM/C-X(42HP)		● ● ●	●
GMV-Y1230WM/C-X(44HP)		● ●	● ●
GMV-Y1285WM/C-X(46HP)		●	● ● ●
GMV-Y1340WM/C-X(48HP)			● ● ● ●

Specifications Of ODU Combination

Model	Power Supply	Capacity		Dimension(WxDxH)	Airflow Volume	Noise level	Connecting pipe diameter		Oil Balance pipe diameter	Weight
		Cooling	Heating				Liquid	Gas		
	V/Ph/Hz	kW	kW	mm	m ³ /h	dB(A)	mm	mm	mm	kg
GMV-Y448WM/C-X	380-415V-3Ph~50/60Hz	44.8	50.4	930×765×1605 + 930×765×1605"	11400×2	64	Φ28.6	Φ12.7	Φ9.52	266×2
GMV-Y504WM/C-X		50.4	56.5	930×765×1605 +930×765×1605	11400×2	64	Φ28.6	Φ15.9	Φ9.52	266×2
GMV-Y560WM/C-X		56.0	63.0	930×765×1605 +930×765×1605	11400×2	64	Φ28.6	Φ15.9	Φ9.52	266×2
GMV-Y615WM/C-X		61.5	69.0	930×765×1605 +1340×765×1605	11400+14000	65	Φ28.6	Φ15.9	Φ9.52	266+340
GMV-Y670WM/C-X		67.0	75.0	1340×765×1605 +1340×765×1605	11400×2	65	Φ28.6	Φ15.9	Φ9.52	340×2
GMV-Y728WM/C-X		72.8	81.5	930×765×1605 +930×765×1605 +930×765×1605	11400×3	66	Φ31.8	Φ19.05	Φ9.52	266×3
GMV-Y840WM/C-X		84.0	94.5	930×765×1605 +930×765×1605 +930×765×1605	11400×3	66	Φ31.8	Φ19.05	Φ9.52	266×3
GMV-Y895WM/C-X		89.5	100.5	930×765×1605 +930×765×1605 +1340×765×1605	11400×2+14000	66	Φ31.8	Φ19.05	Φ9.52	266×2+340
GMV-Y950WM/C-X		95.0	106.5	930×765×1605 +1340×765×1605 +1340×765×1605	11400+14000×2	67	Φ31.8	Φ19.05	Φ9.52	266+340×2
GMV-Y1005WM/C-X		100.5	112.5	1340×765×1605 +1340×765×1605 +1340×765×1605	14000×3	67	Φ38.1	Φ19.05	Φ9.52	340×3
GMV-Y1064WM/C-X		106.4	119.5	930×765×1605 +930×765×1605 +930×765×1605 +930×765×1605	11400×4	67	Φ38.1	Φ19.05	Φ9.52	266×4
GMV-Y1120WM/C-X		112.0	126.0	930×765×1605 + 930×765×1605 +930×765×1605 +930×765×1605	11400×4	67	Φ38.1	Φ19.05	Φ9.52	266×4
GMV-Y1175WM/C-X		117.5	132.0	930×765×1605 + 930×765×1605 +930×765×1605 +1340×765×1605	11400×3+14000	67	Φ38.1	Φ19.05	Φ9.52	266×3+340
GMV-Y1230WM/C-X		123.0	138.0	930×765×1605 +930×765×1605 +1340×765×1605 +1340×765×1605	11400×2+14000×2	68	Φ38.1	Φ19.05	Φ9.52	266×2+340×2
GMV-Y1285WM/C-X		128.5	144.0	930×765×1605 +1340×765×1605 +1340×765×1605 +1340×765×1605	11400+14000×3	68	Φ38.1	Φ19.05	Φ9.52	266+340×3
GMV-Y1340WM/C-X		134.0	150.0	1340×765×1605 +1340×765×1605 +1340×765×1605 +1340×765×1605	14000×4	68	Φ38.1	Φ19.05	Φ9.52	340×4

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
Capacity	Cooling	kW	2.2	2.5	2.8	3.2	3.6	4.0
	Heating	kW	2.5	2.8		3.2	4.0	4.5
Power supply		V/Ph/Hz	220-240/1/50 & 208-230/1/60					
Power consumption		W	55	55	55	65	65	85
Airflow volume(H/M/L)		m³/h	550/480/400	550/480/400	550/480/400	600/500/420	600/500/420	850/700/600
		CFM	324/282/235	324/282/235	324/282/235	353/294/247	353/294/247	500/412/353
Rated Current	Cooling	A	0.5	0.5	0.5	0.5	0.5	0.5
	Heating	A	0.5	0.5	0.5	0.5	0.5	0.5
	Water Heating	A	/	/	/	/	/	/
ESP		Pa	60/0~150	60/0~150	60/0~150	60/0~150	60/0~150	60/0~150
Sound pressure level(H/M/L)		dB(A)	33/30/28	33/30/28	33/30/28	33/31/29	33/31/29	36/34/32
Connecting pipe diameter	Liquid	mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35
	Gas	mm	Φ9.52	Φ9.52	Φ9.52	Φ12.7	Φ12.7	Φ12.7
Drain pipe	External dia.	mm	Φ25	Φ25	Φ25	Φ25	Φ25	Φ25
	Thickness	mm	2.5	2.5	2.5	2.5	2.5	2.5
Dimension (WxDxH)	Outline	mm	700×700×300	700×700×300	700×700×300	700×700×300	700×700×300	700×700×300
	Package	mm	897×808×362	897×808×360	897×808×360	897×808×360	897×808×360	897×808×360
Net weight/Gross weight		kg	32/38	32/38	32/38	32/38	32/38	34/40
Loading quantity	40' GP	set	168	168	168	168	168	168
	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
Capacity	Cooling	kW	4.5	5.0	5.6	6.3	7.0	8.0
	Heating	kW	5.0	5.6	6.3	7.1	8.0	9.0
Power supply		V/Ph/Hz	220-240/1/50 & 208-230/1/60					
Power consumption		W	85	85	90	90	100	100
Airflow volume(H/M/L)		m³/h	850/700/600	850/700/600	1000/800/700	1000/800/700	1250/1050/950	1250/1050/950
		CFM	500/412/353	500/412/353	589/471/412	589/471/412	736/618/559	736/618/559
Rated Current	Cooling	A	0.5	0.5	0.8	0.8	0.8	0.8
	Heating	A	0.5	0.5	0.8	0.8	0.8	0.8
	Water Heating	A	/	/	/	/	/	/
ESP		Pa	60/0~150	60/0~150	90/0~200	90/0~200	90/0~200	90/0~200
Sound pressure level(H/M/L)		dB(A)	36/34/32	36/34/32	37/35/33	37/35/33	38/36/34	38/36/34
Connecting pipe diameter	Liquid	mm	Φ6.35	Φ6.35	Φ9.52	Φ9.52	Φ9.52	Φ9.52
	Gas	mm	Φ12.7	Φ12.7	Φ15.9	Φ15.9	Φ15.9	Φ15.9
Drain pipe	External dia.	mm	Φ25	Φ25	Φ25	Φ25	Φ25	Φ25
	Thickness	mm	2.5	2.5	2.5	2.5	2.5	2.5
Dimension (WxDxH)	Outline	mm	700×700×300	700×700×300	1000×700×300	1000×700×300	1000×700×300	1000×700×300
	Package	mm	897×808×360	897×808×360	1205×813×360	1205×813×360	1205×813×360	1205×813×360
Net weight/Gross weight		kg	34/40	34/40	43/49	43/49	43/49	43/49
Loading quantity	40' GP	set	168	168	138	138	138	138
	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
Capacity	Cooling	kW	9.0	10.0	11.2	12.5	14.0	16.0	22.4	28.0
	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 & 208-230/1/60							
Power consumption		W	140	140	160	160	220	230	800	900
Airflow volume(H/M/L)		m³/h	1800/1450/1250	1800/1450/1250	2000/1600/1400	2000/1600/1400	2350/1900/1650	2500/2000/1750	4000/3600/3200	4400/4000/3600
		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
Rated Current	Cooling	A	1.1	1.1	1.1	1.1	2.0	2.0	3.7	4.1
	Heating	A	1.1	1.1	1.1	1.1	2.0	2.0	3.7	4.1
	Water Heating	A	/	/	/	/	/	/	/	/
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 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 diameter	Liquid	mm	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52
	Gas	mm	Φ15.9	Φ15.9	Φ15.9	Φ15.9	Φ15.9	Φ19.05	Φ19.05	Φ22.2
Drain pipe	External dia.	mm	Φ25	Φ25	Φ25	Φ25	Φ25	Φ25	Φ25	Φ25
	Thickness	mm	2.5	2.5	2.5	2.5	2.5	2.5	2.0	2.0
Dimension (WxDxH)	Outline	mm	1400×700×300	1400×700×300	1400×700×300	1400×700×300	1400×700×300	1400×700×300	1483×791×385	1686×870×450
	Package	mm	1601×813×360	1601×813×360	1601×813×360	1601×813×360	1678×808×365	1678×808×365	1578×883×472	1788×988×580
Net weight/Gross weight		kg	57/64	57/64	57/64	57/64	58/67	58/67	82/104	105/140
Loading quantity	40' GP	set	84	84	84	84	84	84	52	52
	40' HQ	set	98	98	98	98	98	98	65	52

Low Static Pressure Duct Type Indoor Unit

50/60 Hz

Model			GMV-ND22PLS/B1-T	GMV-ND25PLS/B1-T	GMV-ND28PLS/B1-T	GMV-ND32PLS/B1-T	GMV-ND36PLS/B1-T
Capacity	Cooling	kW	2.2	2.5	2.8	3.2	3.6
	Heating	kW	2.5	2.8		3.2	4
Power supply		V/Ph/Hz	220-240/1/50 & 208-230/1/60				
Power consumption		W	65	65	65	65	65
Airflow volume (H/M/L)		m³/h	610/437/350	610/437/350	610/437/350	650/629/449	650/629/449
		CFM	359/257/206	359/257/206	359/257/206	383/370/264	383/370/264
Rated Current	Cooling	A	0.32	0.32	0.32	0.32	0.32
	Heating	A	0.32	0.32	0.32	0.32	0.32
	Water Heating	A	/	/	/	/	/
Sound pressure level(H/M/L)		dB(A)	38/36/30	38/36/30	38/36/30	38/36/30	38/36/30
Connecting pipe diameter	Liquid	mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35
	Gas	mm	Φ9.52	Φ9.52	Φ9.52	Φ12.7	Φ12.7
Drain pipe	External dia.	mm	25	25	25	25	25
	Thickness	mm	2.5	2.5	2.5	2.5	2.5
Dimension (WxDxH)	Outline	mm	710×450×200				
	Package	mm	1003×551×285				
Net weight/Gross weight		kg	19/23	19/23	19/23	20/23.5	20/23.5
Loading quantity	40'GP	set	352	352	352	352	352
	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
Capacity	Cooling	kW	4	4.5	5	5.6	6.3
	Heating	kW	4.5	5	5.6	6.3	7
Power supply		V/Ph/Hz	220-240/1/50 & 208-230/1/60				
Power consumption		W	65	65	65	65	65
Airflow volume (H/M/L)		m³/h	810/743/659	810/743/659	810/736/690	810/736/690	810/736/690
		CFM	477/437/388	477/437/388	477/433/406	477/433/406	477/433/406
Rated Current	Cooling	A	0.32	0.32	0.32	0.32	0.32
	Heating	A	0.32	0.32	0.32	0.32	0.32
	Water Heating	A	/	/	/	/	/
Sound pressure level(H/M/L)		dB(A)	37/35/33	37/35/33	37/35/31	37/35/31	37/35/31
Connecting pipe diameter	Liquid	mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ9.52
	Gas	mm	Φ12.7	Φ12.7	Φ12.7	Φ15.9	Φ15.9
Drain pipe	External dia.	mm	25	25	25	25	25
	Thickness	mm	2.5	2.5	2.5	2.5	2.5
Dimension (W×D×H)	Outline	mm	1010×450×200				
	Package	mm	1303×551×285				
Net weight/Gross weight		kg	24/29	24/29	25/30.5	25/30.5	25/30.5
Loading quantity	40'GP	set	288	288	288	288	288
	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
Capacity	Cooling	kW	7.1	8.0	9.0	10.0	11.2	12.5	14.0
	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 & 208-230/1/60						
Power consumption		W	70	140	209	209	209	230	230
Airflow volume(H/M/L)		m³/h	1210/919/754	1100/1000/800	1500/1250/950	1500/1350/1000	1700/1500/1100	2000/1500/1150	2000/1500/1150
		CFM	712/541/444	650/590/471	885/736/599	885/795/590	1000/885/650	1175/885/677	1175/885/677
Rated Current	Cooling	A	0.34	0.7	1.0	1.0	1.0	1.1	1.1
	Heating	A	0.34	0.7	1.0	1.0	1.0	1.1	1.1
	Water Heating	A	/	/	/	/	/	/	/
ESP		Pa	30/0~50						
Sound pressure 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 diameter	Liquid	mm	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52
	Gas	mm	Φ15.9	Φ15.9	Φ15.9	Φ15.9	Φ15.9	Φ15.9	Φ15.9
Drain pipe	External dia.	mm	25	25	25	25	25	25	25
	Thickness	mm	2.5	2.5	2.5	2.5	2.5	2.5	2.5
Dimension (W×D×H)	Outline	mm	1310×450×200	1200 × 655 × 260	1340 × 655 × 260				
	Package	mm	1603×551×285	1448×858×315	1588×858×315				
Net weight/Gross weight		kg	30.5/37	40/47	46/55	46/55	46/55	47/56	47/56
Loading quantity	40' GP	set	224	96	78	78	78	78	78
	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
Capacity	Cooling	kW	2.2	2.5	2.8	3.2	3.6
	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 consumption		W	28	28	28	37	37
Airflow volume (H/M/L)		m³/h	450	450	450	550	550
		CFM	265	265	265	324	324
Rated Current	Cooling	A	0.2	0.2	0.2	0.3	0.3
	Heating	A	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 level(H/M/L)		dB(A)	30	30	30	31	31
Connecting pipe diameter	Liquid	mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35
	Gas	mm	Φ9.52	Φ9.52	Φ9.52	Φ12.7	Φ12.7
Drain pipe	External dia.	mm	Φ25	Φ25	Φ25	Φ25	Φ25
	Thickness	mm	2.5	2.5	2.5	2.5	2.5
Dimension (WxDxH)	Outline	mm	710×462×200	710×462×200	710×462×200	710×462×200	710×462×200
	Package	mm	1008×568×275	1008×568×275	1008×568×275	1008×568×275	1008×568×275
Net weight/Gross weight		kg	18.5	18.5	18.5	19	19
Loading quan- tity	40' GP	set	386	386	386	386	386
	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
Capacity	Cooling	kW	4	4.5	5	5.6	6.3	7.1
	Heating	kW	4.5	5	5.6	6.3	7.1	8
Power supply		V/Ph/Hz	220-240/1/50 & 208-230/1/60					
Power consumption		W	40	40	55	55	55	55
Airflow volume (H/M/L)		m³/h	750	750	850	850	850	1100
		CFM	441	441	500	500	500	647
Rated Current	Cooling	A	0.3	0.3	0.4	0.4	0.4	0.5
	Heating	A	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 pressure level(H/M/L)		dB(A)	33	33	35	35	35	37
Connecting pipe diameter	Liquid	mm	Φ6.35	Φ6.35	Φ6.35	Φ9.52	Φ9.52	Φ9.52
	Gas	mm	Φ12.7	Φ12.7	Φ12.7	Φ15.9	Φ15.9	Φ15.9
Drain pipe	External dia.	mm	Φ25	Φ25	Φ25	Φ25	Φ25	Φ25
	Thickness	mm	2.5	2.5	2.5	2.5	2.5	2.5
Dimension (WxDxH)	Outline	mm	1010×462×200	1010×462×200	1010×462×200	1010×462×200	1010×462×200	1310×462×200
	Package	mm	1308×568×275	1308×568×275	1308×568×275	1308×568×275	1308×568×275	1608×568×275
Net weight/Gross weight		kg	25	25	25	25	25	31
Loading quan- tity	40' GP	set	288	288	288	288	288	229
	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*
Capacity	Cooling	kW	2.2	2.5	2.8	3.2	3.6
	Heating	kW	2.5	2.8	3.2	3.6	4.0
Power supply		V/Ph/Hz	220-240/1/50 & 208-230/1/60				
Power consumption		W	25	25	25	30	30
Airflow volume(H/M/L)		m³/h	450/400/320	450/400/320	450/400/320	550/450/340	550/450/340
		CFM	265/235/188	265/235/188	265/235/188	324/265/200	324/265/200
Rated Current	Cooling	A	0.2	0.2	0.2	0.3	0.3
	Heating	A	0.2	0.2	0.2	0.3	0.3
	Water Heating	A	/	/	/	/	/
ESP		Pa	0/15				
Sound pressure level(H/M/L)		dB(A)	30/28/22	30/28/22	30/28/22	31/29/25	31/29/25
Connecting pipe diameter	Liquid	mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35
	Gas	mm	Φ9.52	Φ9.52	Φ9.52	Φ12.7	Φ12.7
Drain pipe	External dia.	mm	25	25	25	25	25
	Thickness	mm	2.5	2.5	2.5	2.5	2.5
Dimension (WxDxH)	Outline	mm	710x450x200				
	Package	mm	1003x551x285				
Net weight/Gross weight		kg	18.5/22	18.5/22	18.5/22	19.5/23	19.5/23
Loading quantity	40' GP	set	352	352	352	352	352
	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*
Capacity	Cooling	kW	4.0	4.5	5.0	5.6	6.3	7.2
	Heating	kW	4.5	5.0	5.6	6.3	7.0	8.0
Power supply		V/Ph/Hz	220-240/1/50 & 208-230/1/60					
Power consumption		W	35	35	35	45	45	50
Airflow volume(H/M/L)		m³/h	750/660/540	750/660/540	750/660/540	850/700/610	850/700/610	1100/800/640
		CFM	441/388/318	441/388/318	441/388/318	500/412/359	500/412/359	647/471/377
Rated Current	Cooling	A	0.3	0.3	0.3	0.3	0.3	0.5
	Heating	A	0.3	0.3	0.3	0.3	0.3	0.5
	Water Heating	A	/	/	/	/	/	/
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 diameter	Liquid	mm	Φ6.35	Φ6.35	Φ6.35	Φ9.52	Φ9.52	Φ9.52
	Gas	mm	Φ12.7	Φ12.7	Φ12.7	Φ15.9	Φ15.9	Φ15.9
Drain pipe	External dia.	mm	25	25	25	25	25	25
	Thickness	mm	2.5	2.5	2.5	2.5	2.5	2.5
Dimension (WxDxH)	Outline	mm	1010x450x200					
	Package	mm	1303x551x285					
Net weight/Gross weight		kg	23.5/28	23.5/28	23.5/28	24.5/29	24.5/29	30.5/36
Loading quantity	40' GP	set	288	288	288	288	288	224
	40' HQ	set	288	288	288	288	288	224

Note: * This series is without water pump.

4-way Cassette Indoor Unit

50/60 Hz

Model			GMV-ND28T/A-T	GMV-ND36T/A-T	GMV-ND45T/A-T	GMV-ND50T/A-T	GMV-ND56T/A-T	GMV-ND63T/A-T	GMV-ND71T/A-T
Capacity	Cooling	kW	2.8	3.6	4.5	5.0	5.6	6.3	7.1
	Heating	kW	3.2	4.0	5.0	5.6	6.3	7.1	8.0
Power supply		V/Ph/Hz	220-240/1/50 & 208-230/1/60						
Power consumption		W	48	48	48	50	59	59	68
Airflow volume(H/M/L)		m³/h	750/650/550	750/650/550	750/650/550	830/650/550	1000/900/750	1000/900/750	1180/950/850
		CFM	440/383/325	440/383/325	440/383/325	490/383/325	590/530/440	590/530/440	695/559/550
Rated Current	Cooling	A	0.2	0.2	0.2	0.2	0.3	0.3	0.3
	Heating	A	0.2	0.2	0.2	0.2	0.3	0.3	0.3
	Water Heating	A	/	/	/	/	/	/	/
Sound pressure 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 diameter	Liquid	mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ9.52	Φ9.52	Φ9.52
	Gas	mm	Φ9.52	Φ12.7	Φ12.7	Φ12.7	Φ15.9	Φ15.9	Φ15.9
Drain pipe	External dia.	mm	25	25	25	25	25	25	25
	Thickness	mm	2.5	2.5	2.5	2.5	2.5	2.5	2.5
Main Body	Dimension (WxDxH)	Outline	mm	840x840x190	840x840x190	840x840x190	840x840x190	840x840x240	840x840x240
		Package	mm	963x963x272	963x963x272	963x963x272	963x963x272	963x963x325	963x963x325
	Net weight/Gross 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
Panel	Dimension (WxDxH)	Outline	mm	950x950x65	950x950x65	950x950x65	950x950x65	950x950x65	950x950x65
		Package	mm	1033x1038x133	1033x1038x133	1033x1038x133	1033x1038x133	1033x1038x133	1033x1038x133
	Net weight/Gross weight		kg	7/11	7/11	7/11	7/11	7/11	7/11
Loading quantity	40'GP	set	167	167	167	167	140	140	140
	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
Capacity	Cooling	kW	8.0	9.0	10.0	11.2	12.5	14.0	16.0
	Heating	kW	9.0	10.0	11.2	12.5	14.0	16.0	17.5
Power supply		V/Ph/Hz	220-240/1/50 & 208-230/1/60						
Power consumption		W	68	98	98	110	110	130	130
Airflow volume(H/M/L)		m³/h	1180/950/850	1500/1350/1100	1500/1350/1100	1700/1400/1100	1860/1500/1150	1860/1500/1150	2100/1700/1400
		CFM	695/559/550	880/795/650	880/795/650	1000/824/650	1095/880/677	1095/880/677	1235/1000/824
Rated Current	Cooling	A	0.3	0.4	0.4	0.5	0.5	0.5	0.6
	Heating	A	0.3	0.4	0.4	0.5	0.5	0.5	0.6
	Water Heating	A	/	/	/	/	/	/	/
Sound pressure level(H/M/L)		dB(A)	38/36/33	40/37/35	40/37/35	41/38/36	43/41/38	43/41/38	47/44/42
Connecting pipe diameter	Liquid	mm	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52
	Gas	mm	Φ15.9	Φ15.9	Φ15.9	Φ15.9	Φ15.9	Φ15.9	Φ19.05
Drain pipe	External dia.	mm	25	25	25	25	25	25	25
	Thickness	mm	2.5	2.5	2.5	2.5	2.5	2.5	2.5
Main Body	Dimension (WxDxH)	Outline	mm	840x840x240	840x840x320	840x840x320	840x840x320	840x840x320	910×910×293
		Package	mm	963x963x325	963x963x409	963x963x409	963x963x409	963x963x409	1023×993×375
	Net weight/Gross weight		kg	26.5/34.5	32.5/40.0	32.5/40.0	32.5/40.0	32.5/40.0	46.5/56.5
Panel	Dimension (WxDxH)	Outline	mm	950x950x65	950x950x65	950x950x65	950x950x65	950x950x65	1040x1040x65
		Package	mm	1033x1038x133	1033x1038x133	1033x1038x133	1033x1038x133	1033x1038x133	1137x1137x140
	Net weight/Gross weight		kg	7/11	7/11	7/11	7/11	7/11	7.5/11.5
Loading quantity	40'GP	set	140	104	104	104	104	104	144
	40'HQ	set	156	119	119	119	119	119	144

360° Air Discharge Cassette Indoor Unit

50/60 Hz

Model			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
Capacity	Cooling	kW	2.8	3.6	4.50	5.00	5.60	6.30
	Heating	kW	3.2	4	5.00	5.60	6.30	7.10
Power supply		V/Ph/Hz	220-240/1/50 & 208-230/1/60					
Power consumption		W	25	25	26	28	35	35
Airflow volume (H/M/L)		m³/h	800/700/600	800/700/600	800/700/600	900/800/700	950/850/750	950/850/750
		CFM	471/412/353	471/412/353	471/412/353	530/471/412	559/500/441	559/500/441
Rated Current	Cooling	A	0.2	0.2	0.2	0.2	0.2	0.2
	Heating	A	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 diameter	Liquid	mm	Φ9.52	Φ12.7	Φ12.7	Φ12.7	Φ15.9	Φ15.9
	Gas	mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ9.52	Φ9.52
Drain pipe	External dia.	mm	Φ25	Φ25	Φ25	Φ25	Φ25	Φ25
	Thickness	mm	2.5	2.5	2.5	2.5	2.5	2.5
Main Body	Dimension (WxDxH)	Outline	mm	840×840×240	840×840×240	840×840×240	840×840×240	840×840×240
		Package	mm	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
Panel	Dimension (WxDxH)	Outline	mm	950x950x65	950x950x65	950x950x65	950x950x65	950x950x65
		Package	mm	1033x1038x112	1033x1038x112	1033x1038x112	1033x1038x112	1033x1038x112
	Net weight/Gross weight		kg	6.0/9.5	6.0/9.5	6.0/9.5	6.0/9.5	6.0/9.5
Loading quantity	40'GP	set	168	168	168	168	168	168
	40'HQ	set	192	192	192	192	192	192

Compact 4-way Cassette Indoor Unit

50/60 Hz

Model			GMV-ND22T/B-T	GMV-ND28T/B-T	GMV-ND36T/B-T	GMV-ND45T/B-T	GMV-ND50T/B-T	GMV-ND56T/B-T
Capacity	Cooling	kW	2.2	2.8	3.6	4.5	5	5.6
	Heating	kW	2.5	3.2	4	5	5.6	6.3
Power supply		V/Ph/Hz	220-240/1/50 & 208-230/1/60					
Power consumption		W	35	35	35	45	45	45
Airflow volume(H/M/L)		m³/h	600/500/400	600/500/400	600/500/400	700/600/500	700/600/500	700/600/500
		CFM	355/295/235	355/295/235	355/295/235	410/355/295	410/355/295	410/355/295
Rated Current	Cooling	A	0.4	0.4	0.4	0.5	0.5	0.5
	Heating	A	0.4	0.4	0.4	0.5	0.5	0.5
	Water Heating	A	/	/	/	/	/	/
Sound pressure level(H/M/L)		dB(A)	41/39/37	41/39/37	41/39/37	45/43/39	45/43/39	45/43/39
Connecting pipe diameter	Liquid	mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ9.52
	Gas	mm	Φ9.52	Φ9.52	Φ12.7	Φ12.7	Φ12.7	Φ15.9
Drain pipe	External dia.	mm	25	25	25	25	25	25
	Thickness	mm	2.5	2.5	2.5	2.5	2.5	2.5
Main Body	Dimension (WxDxH)	Outline	mm	596x596x240	596x596x240	596x596x240	596x596x240	596x596x240
		Package	mm	778x738x300	778x738x300	778x738x300	778x738x300	778x738x300
	Net weight/Gross weight		kg	20.5/25.5	20.5/25.5	20.5/25.5	20.5/25.5	20.5/25.5
Panel	Dimension (WxDxH)	Outline	mm	670x670x50	670x670x50	670x670x50	670x670x50	670x670x50
		Package	mm	763x763x105	763x763x105	763x763x105	763x763x105	763x763x105
	Net weight/Gross weight		kg	3.5/5.0	3.5/5.0	3.5/5.0	3.5/5.0	3.5/5.0
Loading quantity	40'GP	set	245	245	245	245	245	245
	40'HQ	set	279	279	279	279	279	279

360° Air Discharge Compact Cassette Indoor Unit

Model			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
Capacity	Cooling	kW	2.2	2.8	3.6	4.5	5	5.6
	Heating	kW	2.5	3.2	4	5	5.6	6.3
Power supply		V/Ph/Hz	220-240/1/50 & 208-230/1/60					
Power consumption		W	28	28	30	45	45	45
Airflow volume (H/M/L)		m³/h	600/500/400	600/500/400	620/550/480	730/650/560	730/650/560	730/650/560
		CFM	355/294/235	355/294/235	365/324/282	430/383/330	430/383/330	430/383/330
Rated Current	Cooling	A	0.13	0.13	0.15	0.23	0.23	0.23
	Heating	A	0.13	0.13	0.15	0.23	0.23	0.23
Sound pressure level(H/M/L)		dB(A)	38/36/34	38/36/34	39/37/35	43/41/39	43/41/39	43/41/39
Connecting pipe diameter	Liquid	mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ9.52
	Gas	mm	Φ9.52	Φ9.52	Φ12.7	Φ12.7	Φ12.7	Φ15.9
Drain pipe	External dia.	mm	Φ25	Φ25	Φ25	Φ25	Φ25	Φ25
	Thickness	mm	2.5	2.5	2.5	2.5	2.5	2.5
Main Body	Dimension (WxDxH)	Outline	mm	570×570×265	570×570×265	570×570×265	570×570×265	570×570×265
		Package	mm	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
Panel	Dimension (WxDxH)	Outline	mm	620×620×47.5	620×620×47.5	620×620×47.5	620×620×47.5	620×620×47.5
		Package	mm	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
Loading quantity	40'GP	set	378	378	378	378	378	378
	40'HQ	set	432	432	432	432	432	432

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

Fresh Air Ventilation Kit

Model			XF150A1-T ¹	XF150A-T ²
Fresh Air Intake Volume		%	10	10
Dimension (WxDxH)	Outline	mm	846×857×60	834×834×60
	Package	mm	873×873×180	873×873×180
Dimension of the Connection		mm	150	150
		Pcs	2	2
Net weight/Gross weight		kg	3/7.1	2.7/7.7

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.

2-way Cassette Indoor Unit

50/60 Hz

Model			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
Capacity	Cooling	kW	2.8	3.6	4.5	5.0	5.6	6.3	7.1
	Heating	kW	3.2	4.0	5.0	5.6	6.3	7.1	8.0
Power supply	V/Ph/Hz		220-240/1/50 & 208-230/1/60						
Power consumption	W		55.0	55.0	55.0	55.0	103.0	103.0	103.0
Airflow volume(H/M/L)	m³/h		830/660/580	830/660/580	830/660/580	830/660/580	1100/900/750	1100/900/750	1100/900/750
	CFM		490/388/341	490/388/341	490/388/341	490/388/341	650/530/441	650/530/441	650/530/441
Rated Current	Cooling	A	0.4	0.4	0.4	0.4	0.7	0.7	0.7
	Heating	A	0.4	0.4	0.4	0.4	0.7	0.7	0.7
	Water Heating	A	/	/	/	/	/	/	/
Sound pressure level(H/M/L)	dB(A)		35/32/29	35/32/29	35/32/29	35/32/29	39/36/33	39/36/33	39/36/33
Connecting pipe diameter	Liquid	mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ9.52	Φ9.52	Φ9.52
	Gas	mm	Φ9.52	Φ12.7	Φ12.7	Φ12.7	Φ15.9	Φ15.9	Φ15.9
Drain pipe	External dia.	mm	25	25	25	25	25	25	25
	Thickness	mm	2.5	2.5	2.5	2.5	2.5	2.5	2.5
Main Body	Dimension (WxDxH)	mm	1200x520x315	1200x520x315	1200x520x315	1200x520x315	1200x520x315	1200x520x315	1200x520x315
	Package	mm	1523x658x430	1523x658x430	1523x658x430	1523x658x430	1523x658x430	1523x658x430	1523x658x430
Panel	Net weight/Gross weight	kg	43/54	43/54	43/54	43/54	46/56	46/56	46/56
	Outline	mm	1443x630x33	1443x630x33	1443x630x33	1443x630x33	1443x630x33	1443x630x33	1443x630x33
	Package	mm	1578x768x120	1578x768x120	1578x768x120	1578x768x120	1578x768x120	1578x768x120	1578x768x120
Loading quantity	Net weight/Gross 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
	40'GP	set	90	90	90	90	90	90	90
	40'HQ	set	105	105	105	105	105	105	105

1-way Cassette Indoor Unit

50/60 Hz

Model			GMV-ND22TD/A-T	GMV-ND28TD/A-T	GMV-ND36TD/A-T	GMV-ND45TD/A-T	GMV-ND50TD/A-T	GMV-ND56TD/A-T
Capacity	Cooling	kW	2.2	2.8	3.6	4.5	5.0	5.6
	Heating	kW	2.5	3.2	4.0	5.0	5.6	6.3
Power supply	V/Ph/Hz		220-240/1/50 & 208-230/1/60					
Power consumption	W		30	30	30	45	45	45
Airflow volume(H/M/L)	m³/h		600/500/450	600/500/450	600/500/450	830/600/500	830/600/500	890/667/564
	CFM		355/295/265	355/295/265	355/295/265	490/355/295	490/355/295	524/393/332
Rated Current	Cooling	A	0.2	0.2	0.2	0.3	0.3	0.3
	Heating	A	0.2	0.2	0.2	0.3	0.3	0.3
	Water Heating	A	/	/	/	/	/	/
Sound pressure level(H/M/L)	dB(A)		36/32/28	36/32/28	36/32/28	40/35/30	40/35/30	41/38/35
Connecting pipe diameter	Liquid	mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ9.52
	Gas	mm	Φ9.52	Φ9.52	Φ12.7	Φ12.7	Φ12.7	Φ15.9
Drain pipe	External dia.	mm	25	25	25	25	25	25
	Thickness	mm	2.5	2.5	2.5	2.5	2.5	2.5
Main Body	Dimension (WxDxH)	mm	987x385x178	987x385x178	987x385x178	987x385x178	987x385x178	987x385x178
	Package	mm	1307x501x310	1307x501x310	1307x501x310	1307x501x310	1307x501x310	1307x501x310
Panel	Net weight/Gross 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 (WxDxH)	mm	1200x460x55	1200x460x55	1200x460x55	1200x460x55	1200x460x55	1200x460x55
	Package	mm	1265x536x121	1265x536x121	1265x536x121	1265x536x121	1265x536x121	1265x536x121
Loading quantity	Net weight/Gross weight	kg	4.2/6.0	4.2/6.0	4.2/6.0	4.2/6.0	4.2/6.0	4.2/6.0
	40'GP	set	138	138	138	138	138	138
	40'HQ	set	138	138	138	138	138	138

Wall-mounted Type Indoor Unit

50Hz

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 *
Capacity	Cooling	kW	2.2	2.8	3.6	4.5	5.0	5.6	6.3	7.1
	Heating	kW	2.5	3.2	4.0	5.0	5.8	6.3	7.0	7.5
Power supply	V/Ph/Hz		220-240/1/50							
Power consumption	W		50	50	60	60	60	70	70	70
Airflow volume(H/M/L)	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
	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
Rated Current	Cooling	A	0.2	0.2	0.31	0.31	0.31	0.31	0.31	0.31
	Heating	A	0.2	0.2	0.31	0.31	0.31	0.31	0.31	0.31
	Water Heating	A	/	/	/	/	/	/	/	/
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 diameter	Liquid	mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ9.52	Φ9.52	Φ9.52
	Gas	mm	Φ9.52	Φ9.52	Φ12.7	Φ12.7	Φ12.7	Φ15.9	Φ15.9	Φ15.9
Drain pipe	External dia.	mm	Φ20	Φ20	Φ20	Φ20	Φ20	Φ30	Φ30	Φ30
	Thickness	mm	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
Dimension (WxDxH)	Outline	mm	843x180x275			940x200x298			1008x221x319	
	Package	mm	973x258x370			1068x288x395			1131x398x328	
Net weight/Gross 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 quantity	40' GP	set	702	702	557	557	557	441	441	441
	40' HQ	set	819	819	624	624	624	503	503	503

60 Hz

Model			GMV-N22G/A3A-D*	GMV-N28G/A3A-D*	GMV-N36G/A3A-D*	GMV-N45G/A3A-D*	GMV-N50G/A3A-D*	GMV-N56G/A3A-D*	GMV-N63G/A3A-D*	GMV-N71G/A3A-D*
Capacity	Cooling	kW	2.2	2.8	3.6	4.5	5.0	5.6	6.3	7.1
	Heating	kW	2.5	3.2	4.0	5.0	5.8	6.3	7.0	7.5
Power supply	V/Ph/Hz		208-230/1/60							
Power consumption	W		50	50	60	60	60	70	70	70
Airflow volume(H/M/L)	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
	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
Rated Current	Cooling	A	0.2	0.2	0.31	0.31	0.31	0.31	0.31	0.31
	Heating	A	0.2	0.2	0.31	0.31	0.31	0.31	0.31	0.31
	Water Heating	A	/	/	/	/	/	/	/	/
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 diameter	Liquid	mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ9.52	Φ9.52	Φ9.52
	Gas	mm	Φ9.52	Φ9.52	Φ12.7	Φ12.7	Φ12.7	Φ15.9	Φ15.9	Φ15.9
Drain pipe	External dia.	mm	Φ20	Φ20	Φ20	Φ20	Φ20	Φ30	Φ30	Φ30
	Thickness	mm	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
Dimension (WxDxH)	Outline	mm	843x180x275			940x200x298			1008x221x319	
	Package	mm	973x285x370			1068x288x395			1131x398x328	
Net weight/Gross 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 quantity	40' GP	set	702	702	557	557	557	441	441	441
	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
Capacity	Cooling	kW	2.2	2.8	3.6	4.5	5
	Heating	kW	2.5	3.2	4	5	5.8
Power supply	V/PH/Hz		220-240/1/50 & 208-230/1/60				
Power consumption	W		20	20	30	30	30
Airflow volume(H/M/L)	m³/h		500/420/350	500/420/350	630/550/480	630/550/480	630/550/480
	CFM		294/247/206	294/247/206	371/324/282	371/324/282	371/324/282
Rated cument	Cooling	A	0.1	0.1	0.16	0.16	0.16
	Heating	A	0.1	0.1	0.16	0.16	0.16
	Water heating	A	/	/	/	/	/
Sound pressure level(H/M/L)	dB (A)		38/34/30	38/34/30	44/41/38	44/41/38	44/41/38
Connecting pipe diameter	Liquid	mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35
	Gas	mm	Φ9.52	Φ9.52	Φ12.7	Φ12.7	Φ12.7
Drain pipe	External dia.	mm	Φ20	Φ20	Φ20	Φ20	Φ20
	Thickness	mm	1.5	1.5	1.5	1.5	1.5
Dimension (W×D×H)	Outline	mm	843×180×275	843×180×275	940×200×298	940×200×298	940×200×298
	Package	mm	973x258x370	973x258x370	1068x288x395	1068x288x395	1068x288x395
Net weight/gross weight	Kg		10/12.5	10/12.5	12.5/15.5	12.5/15.5	12.5/15.5
Loading quantity	40'GP	Set	702	702	557	557	557
	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
	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 consumption		W	40	40	40	80	80	100
Airflow volume(H/M/L)		m³/h	750/600/500	750/600/500	750/600/500	1550/1050/800	1550/1050/800	1650/1100/900
		CFM	441/353/294	441/353/294	441/353/294	912/618/471	912/618/471	971/647/530
Rated cument	Cooling	A	0.17	0.17	0.17	0.41	0.41	0.41
	Heating	A	0.17	0.17	0.17	0.41	0.41	0.41
	Water heating	A	/	/	/	/	/	/
Sound pressure 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 pipe diameter	Liquid	mm	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52
	Gas	mm	Φ15.9	Φ15.9	Φ15.9	Φ15.9	Φ15.9	Φ15.9
Drain pipe	External dia.	mm	Φ30	Φ30	Φ30	Φ30	Φ30	Φ30
	Thickness	mm	1.5	1.5	1.5	1.5	1.5	1.5
Dimension (WxD×H)	Outline	mm	1008×221×319	1008×221×319	1008×221×319	1350×258×326	1350×258×326	1350×258×326
	Package	mm	1131×398×328	1131×398×328	1131×398×328	1496×421×358	1496×421×358	1496×421×358
Net weight/gross weight		Kg	15/18.5	15/18.5	15/18.5	18.5/23.5	18.5/23.5	18.5/23.5
Loading quantity	40'GP	Set	441	441	441	228	228	228
	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
Capacity	Cooling	kW	2.2	2.8	3.6	4.5	5
	Heating	kW	2.5	3.2	4	5	5.6
Power supply		V/Ph/Hz	220-240/1/50 & 208-230/1/60				
Power consumption		W	20	20	25	35	35
Airflow volume (H/M/L)		m³/h	500/440/300	500/440/300	630/460/320	850/580/500	850/580/500
		CFM	294/259/177	294/259/177	371/271/188	500/341/294	500/341/294
Rated Current	Cooling	A	0.1	0.1	0.12	0.17	0.17
	Heating	A	0.1	0.1	0.12	0.17	0.17
Sound pressure level(H/M/L)		dB(A)	35/33/30	35/33/30	38/35/31	43/40/37	43/40/37
Connecting pipe diameter	Liquid	mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35
	Gas	mm	Φ9.52	Φ9.52	Φ12.7	Φ12.7	Φ12.7
Drain pipe	External dia.	mm	Φ20	Φ20	Φ20	Φ20	Φ20
	Thickness	mm	1.5	1.5	1.5	1.5	1.5
Dimension (WxDxH)	Outline	mm	845×289×209			970×300×224	
	Package	mm	973x364x278			1096×383×320	
Net weight/Gross weight		kg	10.5/12.5			12.5/15.5	
Loading quantity	40'GP	set	576			448	
	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
Capacity	Cooling	kW	5.6	6.3	7.1	8	9	9.5
	Heating	kW	6.3	7.1	7.5	9	10	10.5
Power supply		V/Ph/Hz	220-240/1/50 & 208-230/1/60					
Power consumption		W	50	50	65	80	80	100
Airflow volume (H/M/L)		m³/h	1100/850/650	1100/850/650	1200/850/650	1550/1050/800	1550/1050/800	1650/1100/900
		CFM	647/500/383	647/500/383	706/500/383	912/618/471	912/618/471	971/647/530
Rated Current	Cooling	A	0.24	0.24	0.31	0.41	0.41	0.41
	Heating	A	0.24	0.24	0.31	0.41	0.41	0.41
Sound pressure level(H/M/L)		dB(A)	43/41/37	43/41/37	44/41/37	49/46/40	49/46/40	52/48/40
Connecting pipe diameter	Liquid	mm	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52
	Gas	mm	Φ15.9	Φ15.9	Φ15.9	Φ15.9	Φ15.9	Φ15.9
Drain pipe	External dia.	mm	Φ30	Φ30	Φ30	Φ30	Φ30	Φ30
	Thickness	mm	1.5	1.5	1.5	1.5	1.5	1.5
Dimension (WxDxH)	Outline	mm	1078×325×246			1350×258×326		
	Package	mm	1203×413×350			1496×421×369		
Net weight/Gross weight		kg	16/19			18.5/23.5		
Loading quantity	40'GP	set	282			228		
	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

50/60Hz

Model			GMV-NDX125P/A-T ⁺	GMV-NDX140P/A-T ⁺	GMV-NDX224P/A-T ⁺	GMV-NDX250P/A-T ⁺	GMV-NDX280P/A-T ⁺	GMV-NX450P/A(X4.0)-M ⁺
Capacity	Cooling	kW	12.5	14.0	22.4	25.0	28.0	45
	Heating	kW	8.5	10.0	16.0	18.0	20.0	32.0
Power supply		V/Ph/Hz	220-240V/1/50 & 208-230/1/60					
Power consumption		W	350	350	760	860	860	1240
Airflow volume(H/M/L)		m³/h	1200/1000~2000	1200/1000~2000	2000/1500~3000	2500/2000~3500	2500/2000~3500	4000
		CFM	706/589~1177	706/589~1177	1177/883~1766	1471/1177~2060	1471/1177~2060	2354
Rated Current	Cooling	A	1.5	1.5	2.5	3.1	3.1	3.4
	Heating	A	1.5	1.5	2.5	3.1	3.1	3.4
	Water Heating	A	/	/	/	/	/	/
ESP		Pa	150/50~200	150/50~200	200/50~300	200/50~300	200/50~280	200
Sound pressure level(H/M/L)		dB(A)	40~50	40~50	45~54	47~54	47~54	58
Connecting pipe diameter	Liquid	mm	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ12.7
	Gas	mm	Φ15.9	Φ15.9	Φ19.05	Φ22.2	Φ22.2	Φ28.6
Drain pipe	External dia.	mm	Φ25	Φ25	Φ25	Φ25	Φ25	Φ33
	Thickness	mm	2.5	2.5	2.0	2.0	2.0	3.0
Dimension (WxDxH)	Outline	mm	1400×700×300	1400×700×300	1483×791×385	1483×791×385	1483×791×385	1700x1100x650
	Package	mm	1601×813×365	1601×813×365	1578×883×472	1578×883×472	1578×883×472	1893x1463x838
Net weight/Gross weight		kg	54/61	54/61	82/104	82/104	82/104	208/266
Loading quantity	40' GP	set	84	84	52	52	52	16
	40' HQ	set	98	98	65	65	65	16

Note: This series can be matched with GMV5 、GMV5E、GMV5C、GMV5 CP、GMV5 MAX and GMV5 HR (Top discharge outdoor unit)

Console Indoor Unit

50/60Hz

Model			GMV-ND22C/A-T	GMV-ND28C/A-T	GMV-ND36C/A-T	GMV-ND45C/A-T	GMV-ND50C/A-T
Capacity	Cooling	kW	2.2	2.8	3.6	4.5	5.0
	Heating	kW	2.5	3.2	4.0	5.0	5.5
Power supply		V/Ph/Hz	220-240/1/50 & 208-230/1/60				
Power consumption		W	15	15	20	40	40
Airflow volume(H/M/L)		m³/h	400/320/270	400/320/270	480/400/310	680/600/500	680/600/500
		CFM	235/188/159	235/188/159	282/235/182	400/353/294	400/353/294
Rated Current	Cooling	A	0.17	0.17	0.25	0.4	0.4
	Heating	A	0.17	0.17	0.25	0.4	0.4
	Water Heating	A	/	/	/	/	/
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 diameter	Liquid	mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35
	Gas	mm	Φ9.52	Φ9.52	Φ12.7	Φ12.7	Φ12.7
Drain pipe	External dia.	mm	28	28	28	28	28
	Thickness	mm	1	1	1	1	1
Dimension (WxDxH)	Outline	mm	700/215/600	700/215/600	700/215/600	700/215/600	700/215/600
	Package	mm	788x283x777	788x283x777	788x283x777	788x283x777	788x283x777
Net weight/Gross weight		kg	16/19	16/19	16/19	16/19	16/19
Loading quantity	40' GP	set	348	348	348	348	348
	40' HQ	set	348	348	348	348	348

► Air Handler

60Hz

Model			GMV-NR71A/A-D	GMV-NR90A/A-D	GMV-NR100A/A-D	GMV-NR112A/A-D	GMV-NR140A/A-D
Capacity	Cooling	kW	7.1	9	10	11.2	14
	Heating	kW	8	10	11	12.5	15
Power supply		V/Ph/Hz	208-230/1/60				
Power consumption		W	215	270	370	430	550
Airflow volume（H/M/L）		m³/h	1600	1700	1900	2300	2500
		CFM	942	1000	1118	1354	1471
Rated Current ²	Cooling	A	1.1	1.35	2	2	2.5
	Heating	A	1.1	1.35	2	2	2.5
	Water Heating	A	/	/	/	/	/
ESP		Pa	25	37	37	37	50
Sound pressure level(H/M/L)		dB(A)	50	51	52	52	55
Connecting pipe diameter	Liquid	mm	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52
	Gas	mm	Φ16	Φ16	Φ16	Φ16	Φ16
Drain pipe	External dia.	mm	Φ19	Φ19	Φ19	Φ19	Φ19
	Thickness	mm	/	/	/	/	/
Dimension (WxDxH)	Outline	mm	460x540x1105	460x540x1105	540x540x1224	540x540x1224	630x540x1224
	Package	mm	517x620x1170	517x620x1170	597x620x1289	597x620x1289	687x621x1295
Net weight/Gross weight		kg	54/59	57/62	66/72	68/73	78/85
Loading quantity	40'GP	set	164	164	85	85	85
	40'HQ	set	172	172	114	114	114

► Floor Ceiling Type Indoor Unit

50/60Hz

Model			GMV-ND28ZD/A-T	GMV-ND36ZD/A-T	GMV-ND50ZD/A-T	GMV-ND56ZD/A-T	GMV-ND63ZD/A-T
Capacity	Cooling	kW	2.8	3.6	5.0	5.6	6.3
	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 consumption		W	40	40	50	50	75
Airflow volume(H/M/L)		m³/h	650/580/500	650/580/500	950/850/700	950/850/700	1400/1150/1000
		CFM	380/341/294	380/341/294	560/500/410	560/500/410	825/677/590
Rated Current	Cooling	A	0.3	0.3	0.4	0.4	0.6
	Heating	A	0.3	0.3	0.4	0.4	0.6
	Water Heating	A	/	/	/	/	/
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 diameter	Liquid	mm	Φ6.35	Φ6.35	Φ6.35	Φ9.52	Φ9.52
	Gas	mm	Φ9.52	Φ12.7	Φ12.7	Φ15.9	Φ15.9
Drain pipe	External dia.	mm	Φ17	Φ17	Φ17	Φ17	Φ17
	Thickness	mm	1.75	1.75	1.75	1.75	1.75
Dimension (WxDxH)	Outline	mm	1220x700x225				1420x700x245
	Package	mm	1343x823x315				1548x828x345
Net weight/Gross weight		kg	40/49	40/49	40/49	40/49	50/58
Loading quantity	40' GP	set	145	145	145	145	90
	40' HQ	set	158	158	158	158	98

Model			GMV-ND71ZD/A-T	GMV-ND90ZD/A-T	GMV-ND112ZD/A-T	GMV-ND125ZD/A-T	GMV-ND140ZD/A-T	GMV-ND160ZD/A-T
Capacity	Cooling	kW	7.1	9.0	11.2	12.5	14.0	16.0
	Heating	kW	8.0	10.0	12.5	14.0	16.0	18.0
Power supply		V/Ph/Hz	220-240/1/50 & 208-230/1/60					
Power consumption		W	75	140	160	160	160	200
Airflow volume(H/M/L)		m³/h	1400/1150/1000	1600/1400/1200	2000/1800/1450	2000/1800/1450	2000/1800/1450	2300/2100/1900
		CFM	825/677/590	940/824/706	1175/1059/853	1175/1059/853	1175/1059/853	1354/1236/1119
Rated Current	Cooling	A	0.6	1.1	1.4	1.4	1.4	1.9
	Heating	A	0.6	1.1	1.4	1.4	1.4	1.9
	Water Heating	A	/	/	/	/	/	/
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 diameter	Liquid	mm	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52
	Gas	mm	Φ15.9	Φ15.9	Φ15.9	Φ15.9	Φ15.9	Φ19.05
Drain pipe	External dia.	mm	Φ17	Φ17	Φ17	Φ17	Φ17	Φ17
	Thickness	mm	1.75	1.75	1.75	1.75	1.75	1.75
Dimension (WxDxH)	Outline	mm	1420x700x245		1700x700x245			
	Package	mm	1548x828x345		1828x828x345			
Net weight/Gross weight		kg	50/58	50/58	60/68	60/68	60/68	60/68
Loading quantity	40' GP	set	90	90	84	84	84	84
	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
Capacity	Cooling	kW	2.8	3.6	5.0	5.6	6.3	7.1
	Heating	kW	3.2	4.0	5.6	6.3	7.1	8.0
Power supply		V/Ph/Hz	220-240/1/50 & 208-230/1/60					
Power consumption		W	40	40	50	75	75	75
Airflow volume（SL/H/M/L）		m³/h	650/610/530/460	650/610/530/460	850/800/700/600	850/800/700/600	1300/1220/1090/940	1300/1220/1090/940
		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	A	0.3	0.3	0.4	0.6	0.6	0.6
	Heating	A	0.3	0.3	0.4	0.6	0.6	0.6
Sound pressure 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 pipe diameter	Liquid	mm	Φ6.35	Φ6.35	Φ6.35	Φ9.52	Φ9.52	Φ9.52
	Gas	mm	Φ9.52	Φ12.7	Φ12.7	Φ15.9	Φ15.9	Φ15.9
Drain pipe	External dia.	mm	Φ17	Φ17	Φ17	Φ17	Φ17	Φ17
	Thickness	mm	1.75	1.75	1.75	1.75	1.75	1.75
Dimension (WxDxH)	Outline	mm	870×665×235	870×665×235	870×665×235	870×665×235	1200×665×235	1200×665×235
	Package	mm	1033×770×300	1033×770×300	1033×770×300	1033×770×300	1363×770×300	1363×770×300
Net weight/Gross 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-tity	40'GP	set	144	144	144	144	98	98
	40'HQ	set	166	166	166	166	113	113

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
Capacity	Cooling	kW	9.0	10.0	11.2	12.5	14.0	16.0
	Heating	kW	10.0	11.2	12.5	14.0	16.0	17.0
Power supply		V/Ph/Hz	220-240/1/50 & 208-230/1/60					
Power consumption		W	140	140	160	160	160	200
Airflow volume（SL/H/M/L）		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
		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	A	1.1	1.1	1.4	1.4	1.4	1.9
	Heating	A	1.1	1.1	1.4	1.4	1.4	1.9
Sound pressure level(H/M/L)		dB(A)	47/43/39	47/43/39	47/44/42	47/44/42	50/48/44	53/49/45
Connecting pipe diameter	Liquid	mm	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52
	Gas	mm	Φ15.9	Φ15.9	Φ15.9	Φ15.9	Φ15.9	Φ19.05
Drain pipe	External dia.	mm	Φ17	Φ17	Φ17	Φ17	Φ17	Φ17
	Thickness	mm	1.75	1.75	1.75	1.75	1.75	1.75
Dimension (WxDxH)	Outline	mm	1200×665×235	1200×665×235	1570×665×235	1570×665×235	1570×665×235	1570×665×235
	Package	mm	1363×770×300	1363×770×300	1729×770×300	1729×770×300	1729×770×300	1729×770×300
Net weight/Gross 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-tity	40'GP	set	98	98	53	53	53	53
	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

50/60Hz

Model			GMV-ND22ZA/A-T	GMV-ND28ZA/A-T	GMV-ND36ZA/A-T	GMV-ND45ZA/A-T	GMV-ND56ZA/A-T	GMV-ND63ZA/A-T	GMV-ND71ZA/A-T
Capacity	Cooling	kW	2.2	2.8	3.6	4.5	5.6	6.3	7.1
	Heating	kW	2.5	3.2	4	5	6.3	7.1	8
Power supply		V/Ph/Hz	220-240V ~ 50Hz/208-230V ~ 60Hz						
Power consumption		W	35	35	43	45	80	80	90
Airflow volume(H/M/L)		m³/h	450/350/250	450/350/250	550/450/350	650/500/400	900/750/600	900/750/600	1100/900/700
		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	A	0.18	0.18	0.22	0.23	0.41	0.41	0.46
	Heating	A	0.18	0.18	0.22	0.23	0.41	0.41	0.46
ESP		Pa	10/0 ~ 40	10/0 ~ 40	10/0 ~ 40	15/0 ~ 60	15/0 ~ 60	15/0 ~ 60	15/0 ~ 60
Sound pressure level(H/M/L)		dB(A)	30/28/25	30/28/25	33/31/28	33/31/28	35/33/30	35/33/30	37/35/33
Connecting pipe diameter	Liquid	mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ9.52	Φ9.52	Φ9.52
	Gas	mm	Φ9.52	Φ9.52	Φ12.7	Φ12.7	Φ15.9	Φ15.9	Φ15.9
Drain pipe	External dia.	mm	Φ25	Φ25	Φ25	Φ25	Φ25	Φ25	Φ25
	Thickness	mm	2.5	2.5	2.5	2.5	2.5	2.5	2.5
Dimension (WxDxH)	Outline	mm	700×615×200	700×615×200	700×615×200	900×615×200	1100×615×200	1100×615×200	1100×615×200
	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
Loading quantity	40'GP	set	273	273	273	217	175	175	175
	40'HQ	set	312	312	312	248	200	200	200

Floor Standing Type

50/60Hz

Model			GMV-ND100L/A-T		GMV-ND140L/A-T	
Capacity	Cooling	kW	10		14	
	Heating	KW	11		15	
Power supply		V/Ph/Hz	220-240/1/50 & 208-230/1/60			
Power consumption		W	200		200	
Airflow volume(H/M/L)		m³/h	1850/1600/1400		1850/1600/1400	
		CFM	1089/942/824		1089/942/824	
Rated Current	Cooling	A	1.5		1.5	
	Heating	A	1.5		1.5	
	Water Heating	A	/		/	
ESP		Pa	0		0	
Sound pressure level(H/M/L)		dB(A)	50/48/46		50/48/46	
Connecting pipe diameter	Liquid	mm	Φ9.52		Φ9.52	
	Gas	mm	Φ15.9		Φ15.9	
Drain pipe	External dia.	mm	31		31	
	Thickness	mm	4.5		4.5	
Dimension (WxDxH)	Outline	mm	1870x580x400			
	Package	mm	2083x738x545			
Net weight/Gross weight		kg	54/74		57/77	
Loading quantity	40' GP	set	67		67	
	40' HQ	set	67		67	

Model			GMV-N36U/C-T*	GMV-N71U/C-T*	GMV-N140U/C-T*	GMV-N280U/C-T*	GMV-N560U/C-T*	
Defaulted capacity of ex-factory	Capacity		36	71	140	280	560	
	Cooling	kW	3.6	7.1	14	28	56	
	Heating	kW	4	8	16	31.5	63	
Adjustable capacity	Capacity		28/36	45/56/71	90/112/140	224/280/335/400/450	504/560/840	
	Cooling	kW	2.8/3.6	4.5/5.6/7.1	9/11.2/14	22.4/28.0/33.5/40.0/45.0	50.4/56.0/84.0	
	Heating	kW	3.2/4.0	5.0/6.3/8.0	10/12.5/16	25.0/31.5/37.5/45.0/50.0	56.0/63.0/94.5	
Power input		W	8	8		8	8	
Power Supply		V/Ph/Hz	220-240/1/50 & 208-230/1/60					
Size of connection pipe	AHU-KIT (ex-factory pipe size)		mm	Φ6.35	Φ9.52	Φ9.52	Φ9.52	Φ15.9
	Air handling unit	Liquid pipe	mm	Φ6.35/Φ6.35	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
		Gas pipe		Φ9.52/Φ12.7	12.7/15.9/15.9	15.9/15.9/15.9	19.05/22.2/25.4/25.4/28.6	28.6/28.6/31.8
	Connection method			Brazing Connection				
Outline dimension (W×D×H)		EXV box	mm	203×326×85	203×326×85	203×326×85	203×326×85	246×500×120
		Control box		334×284×111	334×284×111	334×284×111	334×284×111	334×284×111
Package dimension (W×D×H)			mm	539×461×247	539×461×247	539×461×247	539×461×247	759×645×180
Net weight			kg	9.5	10	10	10	12.5
Gross weight			kg	12.5	13	13	13	17
Loading	40'GP	set	981	981	981	981	702	
	40'HP	set	1090	1090	1090	1090	756	

AHU KIT

50/60Hz

Model			GMV-N36U/B-T			GMV-N71U/B-T			GMV-N140U/B-T			GMV-N280U/B-T					GMV-N560U/B-T			
Defaulted capacity of ex-factory	Capacity		36		71			140			280					560				
	Cooling	kW	3.6		7.1			14			28					56				
	Heating	kW	4		8			16			31.5					63				
Adjustable capacity	Capacity		28	36	45	56	71	90	112	140	224	280	335	400	450	504	560	840		
	Cooling	kW	2.8	3.6	4.5	5.6	7.1	9	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 input		W	8			8			8			8					8			
Power Supply		V/Ph/Hz	220-240/1/50 & 208-230/1/60																	
Size of connection pipe	AHU-KIT		mm	Φ6.35	Φ6.35	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ15.9	Φ15.9	Φ15.9		
	Air handling unit	Liquid pipe	mm	Φ6.35	Φ6.35	Φ6.35	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ12.7	Φ12.7	Φ12.7	Φ15.9	Φ15.9	Φ19.05	
		Gas pipe	mm	Φ9.52	Φ12.7	Φ12.7	Φ15.9	Φ15.9	Φ15.9	Φ15.9	Φ15.9	Φ19.05	Φ22.2	Φ25.4	Φ25.4	Φ28.6	Φ28.6	Φ31.8		
	Connection method			Brazing Connection			Brazing Connection			Brazing Connection			Brazing Connection					Brazing Connection		
Outline dimension (W×D×H)		EXV box	mm	203×326×85			203×326×85			203×326×85			203×326×85					246×500×120		
		Control box	mm	334×284×111			334×284×111			334×284×111			334×284×111					334×284×111		
Packing size (W×D×H)			mm	539×461×247			539×461×247			539×461×247			539×461×247					759×645×180		
Net weight/Gross weight			kg	9/12			9/12			9/12			9/12					12.5/17		
Quantity	Loading		40'GP	set			981			981			981					702		
	40'HQ		set	1090			1090			1090			1090					756		

Model			GMV-N560U/C-T+GMV-N140U/C-T*	GMV-N560U/C-T+GMV-N280U/C-T*	GMV-N560U/C-T+GMV-N560U/C-T*	
Defaulted capacity of ex-factory	Capacity		840+140	840+280	840+560	840+840
	Cooling	kW	98	112	140	168
	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			
Air handling unit	Liquid pipe	mm	19.05	19.05	19.05	19.05
	Gas pipe		38.1	38.1	41.3	41.3
Outline dimension (W×D×H)	EXV box	mm	246×500×120+203×326×85	246×500×120+203×326×85	(246×500×120) ×2	
	Control box		(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	17+17	

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

Modular Model				GMV-N560U/B-T+GMV-N140U/B-T		GMV-N560U/B-T+GMV-N280U/B-T		GMV-N560U/B-T+GMV-N560U/B-T			
Defaulted capacity of ex-factory	Capacity			840+140		840+280		840+560		840+840	
	Cooling		kW	98		112		140		168	
	Heating		kW	110.5		126		157.5		189	
Power input			W		8+8		8+8		8+8		
Power Supply			V/Ph/Hz		220-240/1/50 & 208-230/1/60						
Size of connection pipe	Air handling unit	Liquid pipe	mm	Φ19.05		Φ19.05		Φ19.05		Φ19.05	
		Gas pipe	mm	Φ38.1		Φ38.1		Φ41.3		Φ41.3	
Outline dimension (W×D×H)	EXV box		mm	246×500×120+203×326×85		246×500×120+203×326×85		(246×500×120)×2			
	Control box		mm	(334×284×111)×2		(334×284×111)×2		(334×284×111)×2			
Net weight			kg		12.5+9		12.5+9		12.5+12.5		

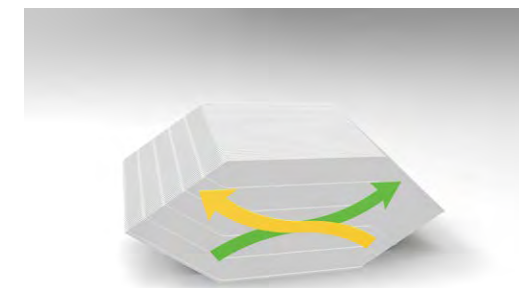
Energy Recovery Ventilation(ERV)



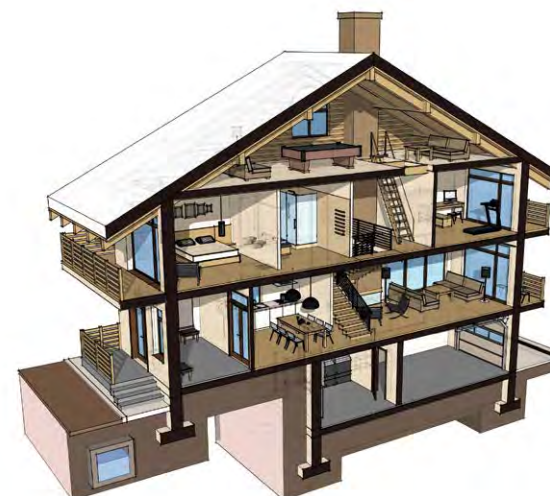
Gree Energy Recovery Ventilation System is designed especially for providing healthy and fresh indoor air, constant air volume and comfortable temperature and humidity with less power consumption. With F7-grade filter, it can effectively remove PM10, PM2.5 and other particles in the air; through the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

Adopts Hexahedral Total Heat Exchange Core

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



Air Volume Multi-selection Control



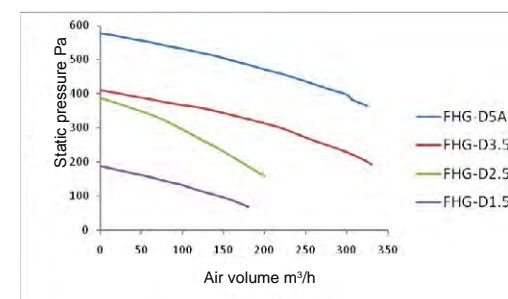
5 selections of air volume are available. Each selection differs obviously from another. It can satisfy different fresh air requirements under different housing areas and different pipe dimensions.

350 m³/h	High
300 m³/h	Medium high
250 m³/h	Medium
200 m³/h	Medium low
150 m³/h	Low

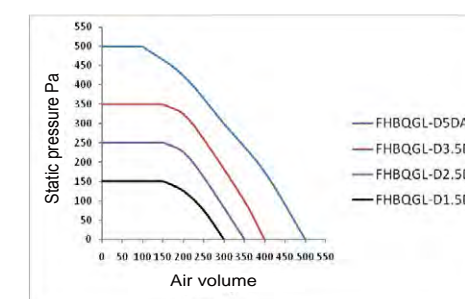
Note: The above air volume data is tested base on model FHBQGL-D3.5DA-S.

Constant Fresh Air Volume

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



Air volume/static pressure curve of common AC motor

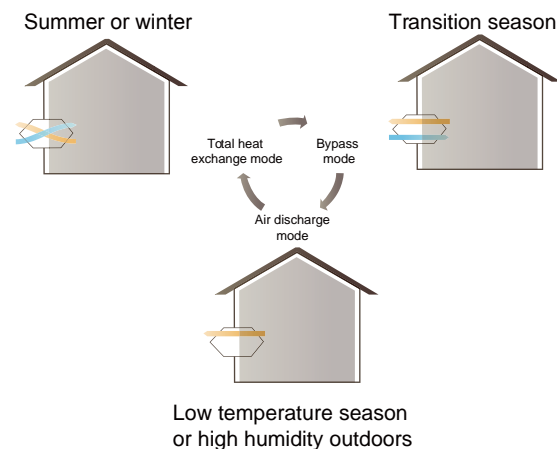


Air volume/static pressure curve of DC motor

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

Comfortable Temperature and Humidity

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



Auto Control

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

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



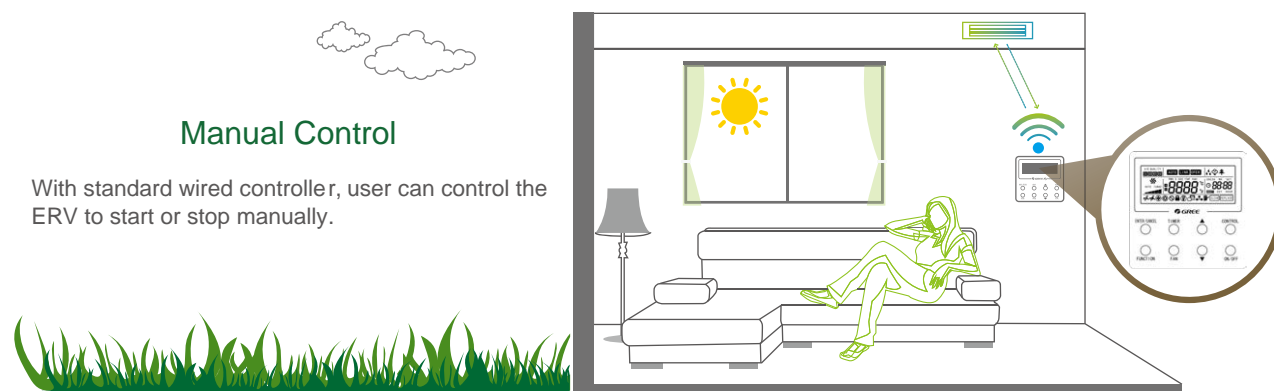
Note on auto control function: when you use the air quality box, it can display indoor air quality grade, CO2 and PM2.5 value, as the indoor temperature and humidity.

Intelligent Control

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

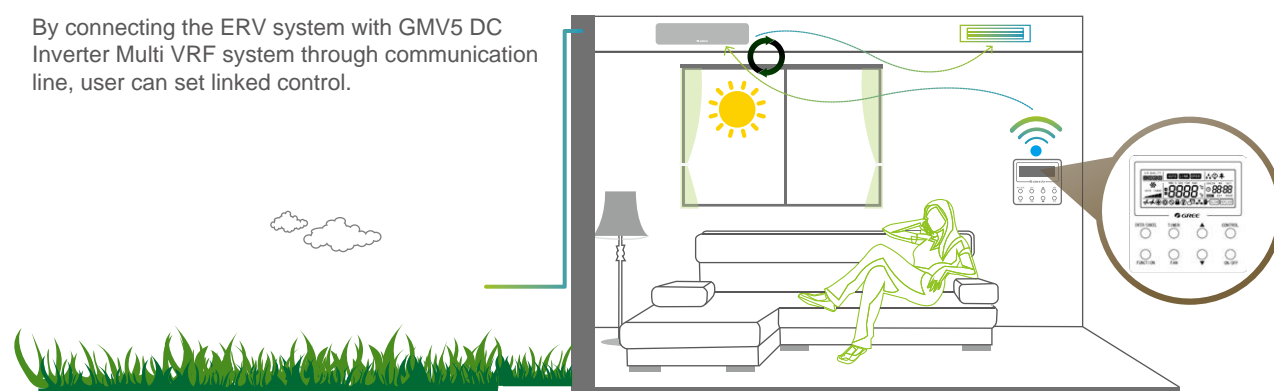
Manual Control

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



Linked Control

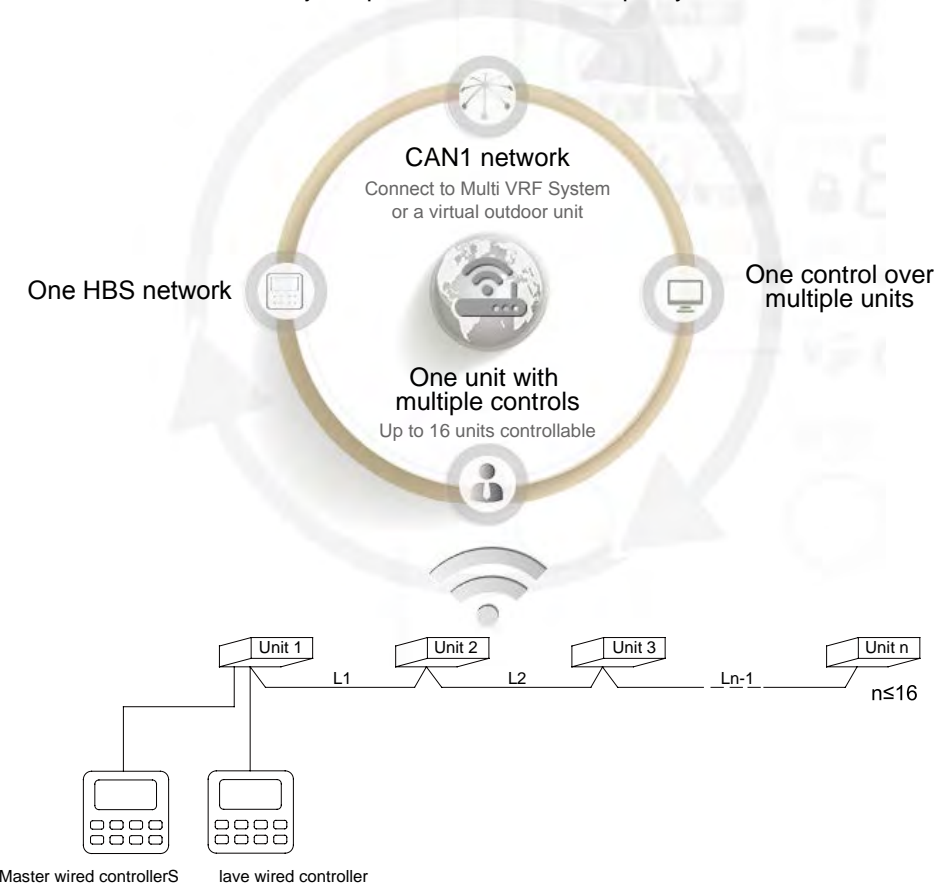
By connecting the ERV system with GMV5 DC Inverter Multi VRF system through communication line, user can set linked control.



“One unit with multiple controls” and “one control over multiple units”

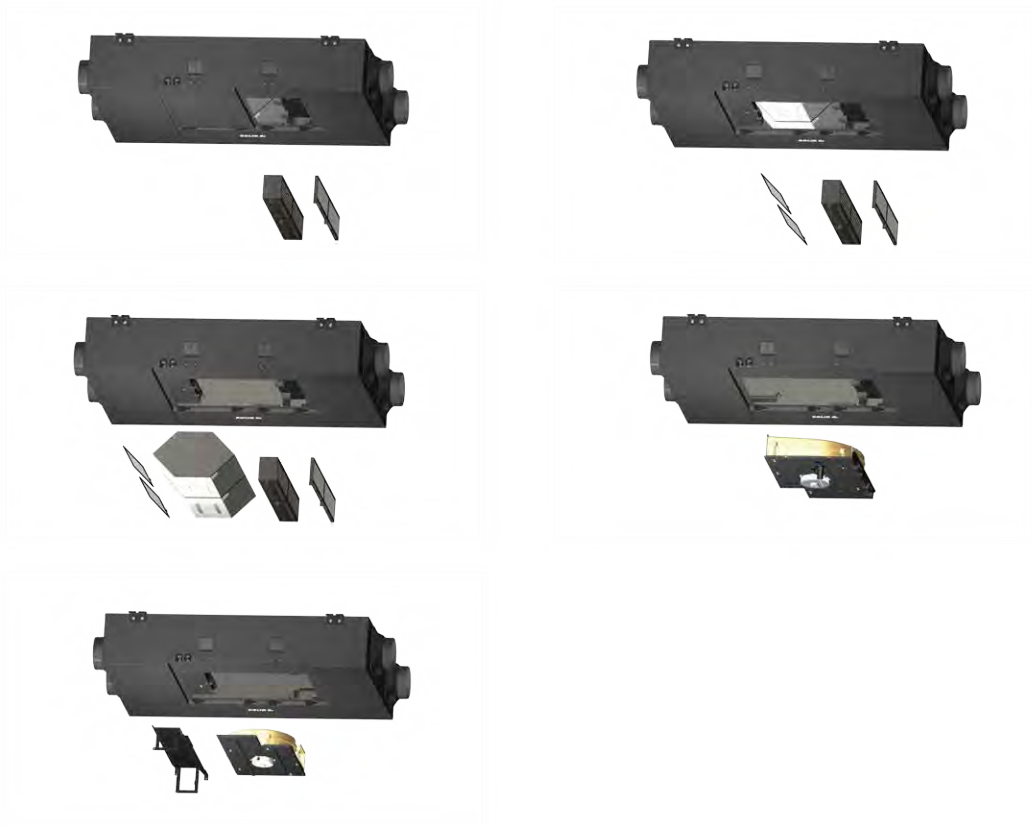
System can be connected with two wired controllers, i.e. master controller and slave controller. Both of them can control the system at the same time. When the Multi VRF System or a virtual outdoor unit is connected, one HBS network can control up to 16 units.

Adjust operation based on air quality



Smart Structural Design

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



Control System Lineup

Product series			ERV
Control system			
Wired Controller	XK112		●
Centralized Controller	CE53-24F(C)		○

Note: ● means standard, ○ means optional.

Specifications

Model			FHBQGL-D1.5DA-S ¹	FHBQGL-D2.5DA-S ¹	FHBQGL-D3.5DA-S ¹	FHBQGL-D5DA-S ¹	
Rated voltage			V	220~240	220~240	220~240	
Rated Frequency			Hz	50/60	50/60	50/60	
Power input			kW	0.05	0.1	0.15	
Current input			A	0.35	0.7	1.0	
Indoor unit	Airflow volume		CFM	88	147	206	294
			m³/h	150	250	350	500
	ESP	Rated	Pa	100	100	100	100
	Thermal exchange efficiency		%	78	75	65	75
	Sound power level		dB(A)	39	44	49	55
	Dimension (WxDxH)	Outline	mm	1160×700×220	1160×700×220	1200×785×240	1385×785×240
		Package	mm	1465×870×270	1465×870×270	1525×970×290	1708×970×290
Net Weight/Gross weight			kg	50/58.5	50/58.5	60/70.5	71.5/82.5
Ventiduct	Outer diameter		mm	160	160	160	200
Loading quantity	20'GP/40'GP/40'HQ		set	82/172/195	82/172/195	57/121/140	54/117/131

Note: *1 This ERV model is without coil.

ERV+DX Coil



5~10.5kW



Memory function



°C/°F switch



Child lock



Easier 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.

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)	12.5(6.1)	15.6(7.7)
Heating Capacity		kW		6.3(3.2)	10(5)	12.5(6.3)
Power input		kW		0.3	0.5	0.66
Current input		A		5	10	10
Indoor unit	Airflow volume		CFM	294	471	589
			m ³ /h	500	800	1000
	ESP	Rated	Pa	150	150	150
	Thermal exchange efficiency		%	73	73	73
	Sound power level		dB(A)	38	38	40
	Dimension (WxDxH)	Outline	mm	1700x885x340	1800x1185x390	1800x1185x390
		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.

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.

Energy Recovery Ventilation(ERV)

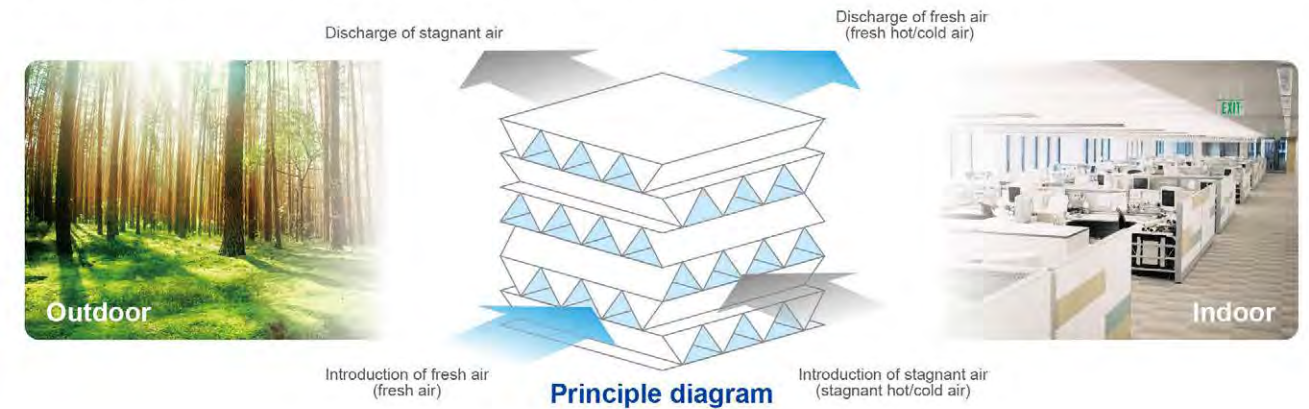


- Air flow: 800~3000m³/h
- Energy Recovery Ventilation System can introduce the fresh air freely on the condition that all the windows closed or exhausted fan uninstalled. It can solve the problem of stagnant air effectively.

It is usually installed in the ceiling of corridor and supplies fresh air to each room through ducts.

Adopt Advanced Heat Exchange Core

ERV adopts cross flow plate exchanger with air volume below 3000m³/h. Fresh air will be introduced and internal leakage is low, which effectively prevents pollution to fresh air.

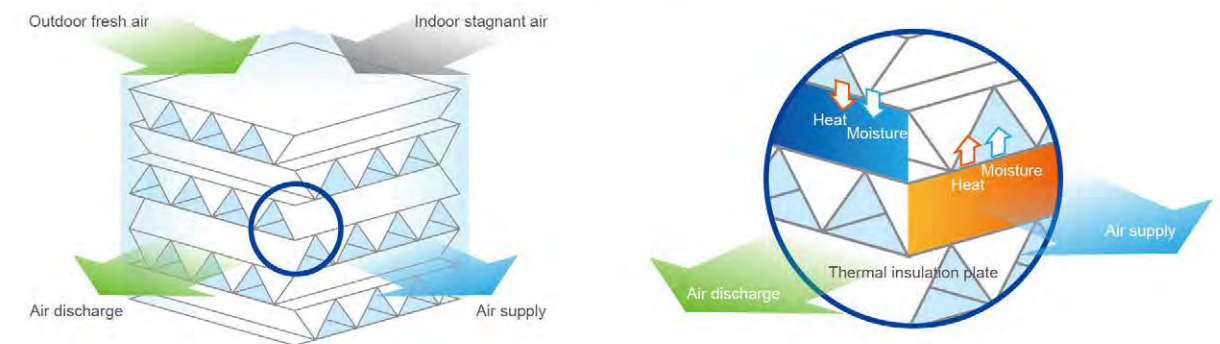


Double-way Ventilation for Fresh Air

ERV can not only introduce lots of fresh air, but also discharge the stagnant air at the same time, which effectively minimizes the toxic air from the inner and other materials. The ventilation effect is very obvious, ensuring enough supply of fresh air to the indoor space.

No Cross Contamination for Ensuring Healthy Fresh Air

The unique cross-flow heat exchange valve sub-assy is adopted. There is only energy exchange between indoor air and outdoor air with little exchange of air, which effectively prevents cross contamination and "air-condition" disease.



Pretreatment of Fresh Air for Energy-saving

When fresh air is introduced, its temperature and humidity will be exchanged with the discharged warm air. As the fresh air is preheated and humidified, energy is saved and load of unit is reduced.

Energy Recovery Ventilation(ERV)

Model			FHBQ-D8-KF	FHBQ-D10-K	FHBQ-D15-M	FHBQ-D20-M	FHBQ-D30-M
Air flow volume	H/M/L	m³/ h	800	1000	1500	2000	3000
	ESP	Pa	90	100	150	150	220
Temperature exchange efficiency	H/M/L	%	70	73	73	71	70
Enthalpy exchange efficiency(H/M/L)	Heating	%	63	66	65	62	62
	Cooling	%	60	62	60	58	58
Power supply	Ph/V/Hz		1/220/50	1/220/50	3/380/50	3/380/50	3/380/50
Power input	kW		0.37	0.44	0.80	0.95	2.80
Sound pressure level	dB(A)		45	46	48	50	54
Dimension (WxDxH)	Outline	mm	832x1016x380	832x1016x380	1210x1215x452	1210x1215x452	1340x1550x572
	Package	mm	1087x1320x400	1087x1320x400	1540x1550x470	1540x1550x470	1610x1710x700
Net weight	kg		57.0	57.0	110.0	110.0	215.0
Gross weight	kg		66.5	66.5	130.0	130.0	236.0
Loading quantity	40'GP	set	85	85	37	37	24
	40'HQ	set	104	104	44	44	24
Standard wired remote controller			Z4E35M	Z4E35M	Z4E35M	Z4E35M	/

Model			FHBQ-D8-D*1	FHBQ-D10-D	FHBQ-D15-D*1	FHBQ-D20-D*1
Air flow volume	H/M/L	m³/ h	800	1000	1500	2000
	ESP	Pa	100	110	150	150
Temperature exchange efficiency	H/M/L	%	70	75	73	71
Enthalpy exchange efficiency(H/M/L)	Heating	%	63	66	65	58
	Cooling	%	60	62	60	62
Power supply	Ph/V/Hz		1/208-230/60	1/208-230/60	3/208-230/60	3/208-230/60
Power input	kW		0.50	0.50	1.10	1.45
Sound pressure level	dB(A)		50	53	60	61
Dimension (WxDxH)	Outline	mm	832x1016x380	832x1016x380	1210x1215x452	1210x1215x452
	Package	mm	1087x1320x400	1087x1320x400	1540x1550x470	1540x1550x470
Net weight	kg		57	57	110	110
Gross weight	kg		67	67	130	130
Loading quantity	40'GP	set	85	85	37	37
	40'HQ	set	104	104	44	44
Standard wired remote controller			Z4E35M	Z4E35M	Z4E35M	Z4E35M

Note: *1:This product only gets CB certification.

Control System Lineup

Product series			ERV
Control system			
Wired controller	Z4E35M		●
Interface of the main board	BMS		●
Optoelectronic isolated converter	RS232-RS422/485		○
Optoelectronic isolated signal multiplier	RS-422/485		○

Note: ● means standard, ○ means optional.



Power generation, power consumption, energy storage, energy management, all in one

> Monocrystalline PV Module

GIE-M60/285~310W

KEY FEATURES High Power ·High reliability· Low attenuation

- Longevity Higher Reliability
 - Double glasses, stable structure , avoiding invisible cracks.
 - PID resistance , no potential induced attenuation, guaranteed efficiency
 - Pass reliability tests, warrant power output 30 years.
- Excellent Adaptability
 - Pass the dust/Ammonia/salt-mist corrosion tests.
 - Module is capable to withstand 7200Pa snow loads.
 - Have cooling performance□High heat resistance.
- High Capacity
 - 2% more energy generation with self-clean technology.
 - Using white EVA package technology to decreasing CTM 2%.
- Higher Fire Resistance
 - Fire class A certified according to IEC with safety.
- Excellent Low-light Performance
 - Excellent performance under low light environments (mornings, evenings and cloudy days).



Management System &Product Certificates

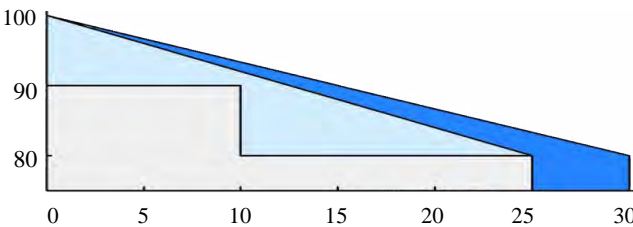
IEC 61215, IEC 61730
ISO 9001:2008
ISO 14001:2004
Solar Product Certificate



18.85%
Maximum Efficiency

310W
Maximum Power

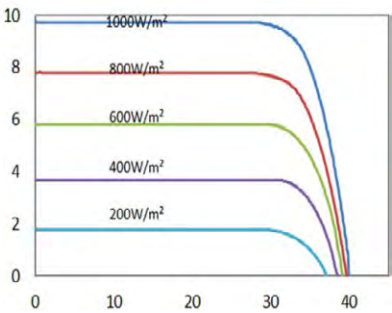
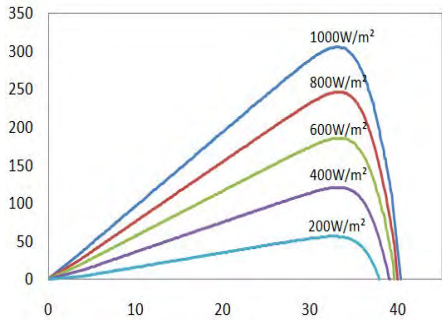
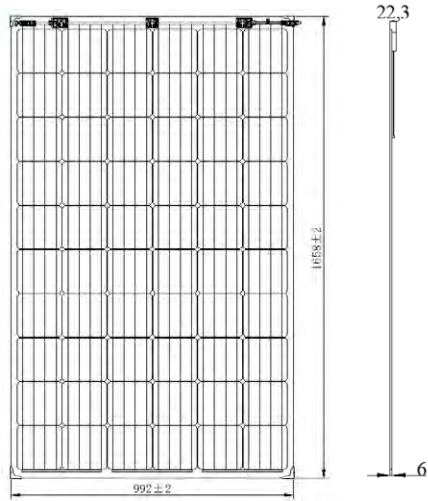
10 years product-30 years liner power output warranty



- GREE Dual module
- Traditional module
- Standard performance

> Dual-Glass|Frameless

Dimensional Drawings (Units:mm) P-V Curves (310W) I-V Curves (310W)



Mechanical Characteristics	
Dimensions	1658×992×(5/6/7.5)mm
Weight	19.4kg/23.3kg/27.5kg
Front/ Back Glass	2.0/2.5/3.2mm tempered glass
Cell Arrangement	60(6×10)
J-Box	IP67, 3 diodes
Connector	MC4 or MC4 Compatible
Cable Length	Anode 330mm,Cathode 200mm (custom-made)
Cable	TUV 4mm ²
Packaging Configuration	30 pieces per pallet

Mechanical load resistance selection	
Glass thickness	2.5mm
Front mechanical load	5400Pa(16level)
Back mechanical load	2400Pa(12level)

Electrical Characteristics NOCT						
Pmax (W)	210	213	217	221	223.9	227.5
Vmpp (V)	28.96	29.11	29.31	29.51	30.55	30.95
Impp (A)	7.25	7.32	7.41	7.49	7.33	7.35
Voc (V)	35.82	36.03	36.25	36.44	37.45	38.03
Isc (A)	7.69	7.78	7.87	7.96	7.73	7.77
NOCT*	Irradiance 800W/m ² ,Temperature20℃ ,AM1.5,Wind speed 1m/s					

Temperature Coefficients STC	
Temperature Coefficient (Pmax)	-0.410(%/℃)
Temperature Coefficient (Voc)	-0.330(%/℃)
Temperature Coefficient (Isc)	0.059(%/℃)
Temperature Coefficient (Vmpp)	-0.323(%/℃)

Working Conditions	
Operating Temperature	-40~+85℃
Rating System Voltage	1000VDC/1500VDC
Series Fuse Rating	14A
Application Class	Class A

Electrical Characteristics STC						
Module Type	GIE-M60/285	GIE-M60/290	GIE-M60/295	GIE-M60/300	GIE-M60/305	GIE-M60/310
Pmax (W)	285	290	295	300	305	310
Vmpp (V)	31.47	31.66	31.86	32.05	33.22	33.67
Impp (A)	9.06	9.16	9.26	9.36	9.18	9.21
Voc (V)	38.23	38.45	38.67	38.89	39.97	40.59
Isc (A)	9.50	9.61	9.72	9.83	9.54	9.59
Module Eff(%)	17.33	17.64	17.94	18.24	18.6	18.85
STC*	Irradiance1000W/m ² ,Cell Temperature 25℃ , AM1.5					

> Gree Power Storage System

Gree Power 1.0/2.0/3.0 Series

Intelligent household power storage system integrates smart connection, high energy electric core, battery control, status monitoring and man-machine interaction. It is an intelligent power storage equipment with the ability to promote energy generating and consumption, open and sharing, free trade, multi-functions and operation on and off line. It is applied to Gree self-developed information energy management system (G-IEMS), of which, a clean, safe, highly effective residential environment is guaranteed and has become most families' first choice with features like easy operation, compatibility and reasonable prices.

GreePower1.0, GreePower2.0 and GreePower 3.0 series are highly effective, big capacity and reliable products.

The capacity of GreePower 2.0 series is 13.2kWh, more efficient, stable and powerful than GreePower 1.0 series, meanwhile, it's able to store the electricity generated by photovoltaic effectively. Besides, it supplies a three-bedroom house with electricity for a whole day.

GreePower 3.0 series is another upgraded version on the basis of GreePower 2.0 series. With the capacity of 22.5kWh, it can meet commercial power consumption demand to the greatest extent. Besides, it will store solar energy which is low cost when the price of electric is at the highest, thus lowering customer's electric charge in peak hours.

Efficient and stable

Fast heat dissipation, the application of charge-discharge device guarantees voltage stability, lowers the output noise and strengthens the interface rejection.



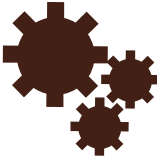
Safe and durable

Overload and undervoltage protection, overcurrent and short out protection, high and low temperature protection and improved reliability.



Flexible installation

100% AI-plastic modular design, flexible construction between every cabinet, flexible installation, wall mounted and ground mounted are both available.



Economical and practical

G-IEMS system connector, electricity can be adjusted according to the price at peak hours, self-created and application of photovoltaic energy distribution.



Intelligent connection

Friendly man-machine interaction screen, WIFI connection, APP real-time monitoring.



Green and clean

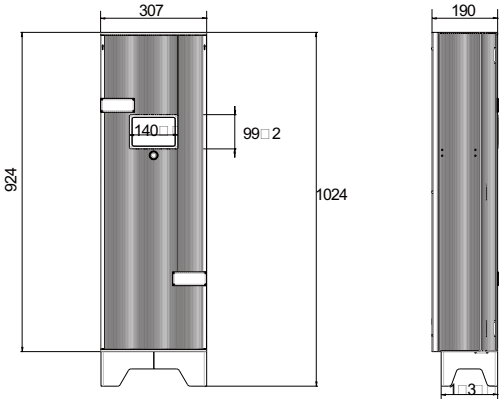
Adopt water soluble solvent battery, more eco-friendly, the energy is more green and clean.



Performance parameter

Model	Gree 1. 0	Gree 2. 0	Gree 3. 0
Parameter table of main power storage cabinet			
General Parameter	5.25kW-h	13.2kW-h	22.59kW-h
Fixed Capacity (kW-h)	5.25	13.2	22.59
Nominal Voltage (V)	122	307.1	262
Voltage Range (V)	99-138	249.0-348.6	213-298
Standard and Fast Charge Current (A)	20/40	20/30	40/80
Working Temperature (℃)	-70	-70	-70
Efficiency	0-95%	0-95%	0-95%
Size (mm*mm*mm)	930*307*190	930*614*190	930*921*190
Protection Grade	IP65	IP65	IP65
Cooling	Natural Cooling	Natural Cooling	Natural Cooling
Communication Interface	CAN	CAN	CAN
Data of battery			
General Parameter	5.25kW-h	13.2kW-h	22.59kW-h
Fixed Charging Power (KW)	2.5	6	10 10.5
DC Voltage Range (V)	99-138	249.0-348.6	213-298 213-298
Max Working Current(A)	40	40	75 80
Stable Voltage Tolerance	±1%	±1%	±1%
Stable Voltage Current Tolerance	±2%	±2%	±2%
Data of PV			
General Parameter	5.25kW-h	13.2kW-h	13.2kW-h
Fixed Power (KW)	2.5	6	6
Starting Voltage (V)	120	120	120
Single-phase Generatrix Voltage (V)	400	400	400
Three-phase Generatrix Voltage (V)	600	600	600
Max Charging Current (A)	40	40	40

Unit:mm



Application



Containers

Requirement for the application scene



Commercial estate

Requirement for the application scene



Electric bus charging station

Requirement for the application scene



Telecom station

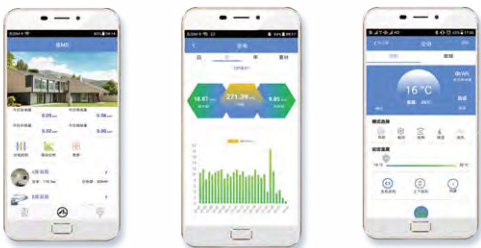
Requirement for the application scene

Gree G-IEMS Energy Internet Home

The home-level solution G-HIEMS of Gree G-IEMS local energy internet system, systematically integrated high-efficiency power generation, safe power storage, reliable power transformation, efficiency electricity use, real-time energy control, energy information centralized management , and lightweight interaction, etc. This solution takes photovoltaic (storage) air conditioners as energy information center, monitoring energy in real time, controlling equipment intelligently, security management alarm, energy efficiency expert analysis, etc. , allowing you to fully and clearly control power consumption and operating conditions of home appliances in real time, creating a smart home and enjoying wisdom Low-carbon life.

System Features

- 1. Electricity data transparent, discover electric tigers and energy saving opportunities;
- 2. Photovoltaic DC direct drive, low pressure, safety and high efficiency;
- 3. Electricity bills are no longer spent, and savings are earned
- 4. Excess electricity to grid, selling electricity to make money;
- 5. Multiple subsidies for photovoltaic power generation (country, place);
- 6. Timed, grouped and remotely control devices, let you free;
- 7. Detect equipment failures in time and predict remaining service life.



Gree G-IEMS Energy Internet Community

The community-level solution G-CIEMS of Gree G-IEMS local energy internet system. This solution, 1) coordinates community residents' energy management, such as energy generation, power distribution, electricity uses, public energy storage; 2) monitors electricity's generation, storage, uses and networks, light control, cameras, etc. in community. It enables the visualization of electricity costs for households and shops, and timely detection of electricity leakage. Through the data mining and application technology of energy information and artificial intelligence technology, we can identify and tap energy improvement points, and self-study to improve community energy utilization, and realize smart life.

System Features

- 1. Intuitive, real-time community energy overview;
- 2. Data visualization of electricity consumption by households, shops and public storage;
- 3. Timely detection of electricity leakage;
- 4. Monitor access control, camera, improve security;
- 5. Website /APP access, real-time control of equipment operation, fault alarms;
- 6. Automatically adjust air conditioning, lighting, save energy and protect equipment.

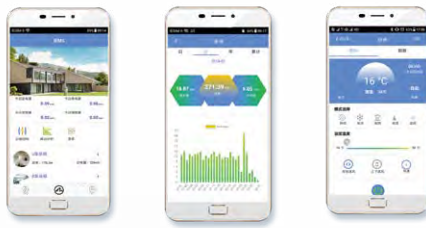


Gree G-IEMS Energy Internet Building

The building-level solution G-BIEMS of Gree G-IEMS local energy internet system. It integrates energy systems, information systems, HVAC systems, lighting systems and security systems. By using this system, you can refined use of energy, information office, intelligent equipment control, security monitoring of buildings. It aims to create a clean, safe, reliable, comfortable and efficient office environment.

System Features

- 1. Real-time monitoring of energy parameters, energy data visualization;
- 2. Web page/APP access, real-time control of equipment operation and fault alarms;
- 3. Automatically adjust the air conditioning and lighting, energy saving and equipment protection;
- 4. Timing,grouped centralized control equipment, to avoid artificial neglect of waste;
- 5. Monitoring access control and camera, improve security;
- 6. Automatic Monitoring, automatic control, lower labor costs.



Gree G-IEMS Energy Internet Region

The region-level solution G-RIEMS of Gree G-IEMS local energy internet system, with power input and material input, integrated EICT technology and artificial intelligence technology to realize the output of low energy consumption products. This solution coordinates the energy management of each group/factory within the industrial park, and seamlessly with the production system. Through the visual management of electricity's generation, storage, uses and networks, you can carry out safety management alarm, real-time energy monitoring, intelligent control of equipment and expert analysis of energy efficiency, achieve the goal of safe production, scientific production scheduling, refined use of energy, to reduce the energy consumption per unit product and energy conservation and emission reduction, and can response to the power grid peak shift.

System Features

- 1. Intuitive branch energy overview;
- 2. Safety management, timely alarm;
- 3. Moving unattended, automatic meter reading;
- 4. Timed, grouped and remotely control devices;
- 5. Equipment inspection, and electricity analysis;
- 6. Reduction of energy consumption per unit product, scientific scheduling;
- 7. Modular design, scalable hierarchy management.



Gree G-IEMS Energy Internet Factory

The factory-level solution G-FIEMS of Gree G-IEMS local energy internet system, with power input and material input, integrated EICT technology and artificial intelligence technology to realize the output of low energy consumption products. Through the seamless integration with production system, it can realize systematic, transparent, networked collection of factory energy data. With it, you can carry out safety management alarm, real-time energy monitoring, intelligent control of equipment and expert analysis of energy efficiency, and achieve the goal of safe production, scientific production scheduling, refined use of energy, and energy conservation and emission reduction.

System Features

- 1. Energy data visualization;
- 2. Moving unattended, automatic meter reading;
- 3. The safety management;
- 4. Equipment inspection;
- 5. Energy consumption per unit product;
- 6. Electricity analysis (peaks and valleys, etc.);
- 7. Production planning.



Note

Note

Award and Certification

