



Gree Photovoltaic (Storage) DC Multi VRF System



GREE ELECTRIC APPLIANCES, INC. OF ZHUHAI

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

HONG KONG GREE ELECTRIC APPLIANCES SALES LIMITED

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

Note:

Gree is committed to continuously improving its products to ensure the highest quality and reliability standards, and to meet local regulations and market requirements.
All features and specifications are subject to change without prior notice.
All images provided in this catalogue are used for illustration purposes only.
Copyright© Gree Electric Appliances, Inc. of Zhuhai. All rights reserved.

GC-2312-02



ABOUT GREE

Gree Electric Appliances, Inc. of Zhuhai was founded in 1991 and was listed on the Shenzhen

Stock Exchange in November 1996. At the beginning, Gree was only a company that assembled residential air conditioners. Now it has grown into a diversified global technological industrial group that has expanded its business to household consumer goods and industrial equipment under three brands: GREE, KINGHOME and TOSOT. Gree is the number one brand of air conditioners in the world in 2022*.

- 2005 ● Gree has topped No.1 in production and sales volume of residential air conditioners for 14 consecutive years.
- 2015 ● Gree's sales revenue exceeded 15.08 billion USD.
- 2016 ● Gree's sales revenue exceeded 16.51 billion USD.
- 2017 ● Gree's 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's sales revenue exceeded 30.23 billion USD.
- 2019 ● Gree entered into Fortune Global 500. Gree's return on equity (ROE) ranked the first among the 129 Chinese enterprises on the list.
- 2020 ● Gree has ranked the 436th on the list of Fortune Global 500.
- 2022 ● Gree has ranked the 487th on the list of Fortune Global 500.
- 2023 ● **Gree Entered into the list of Forbes Global 2000 again and ranked No. 331.**

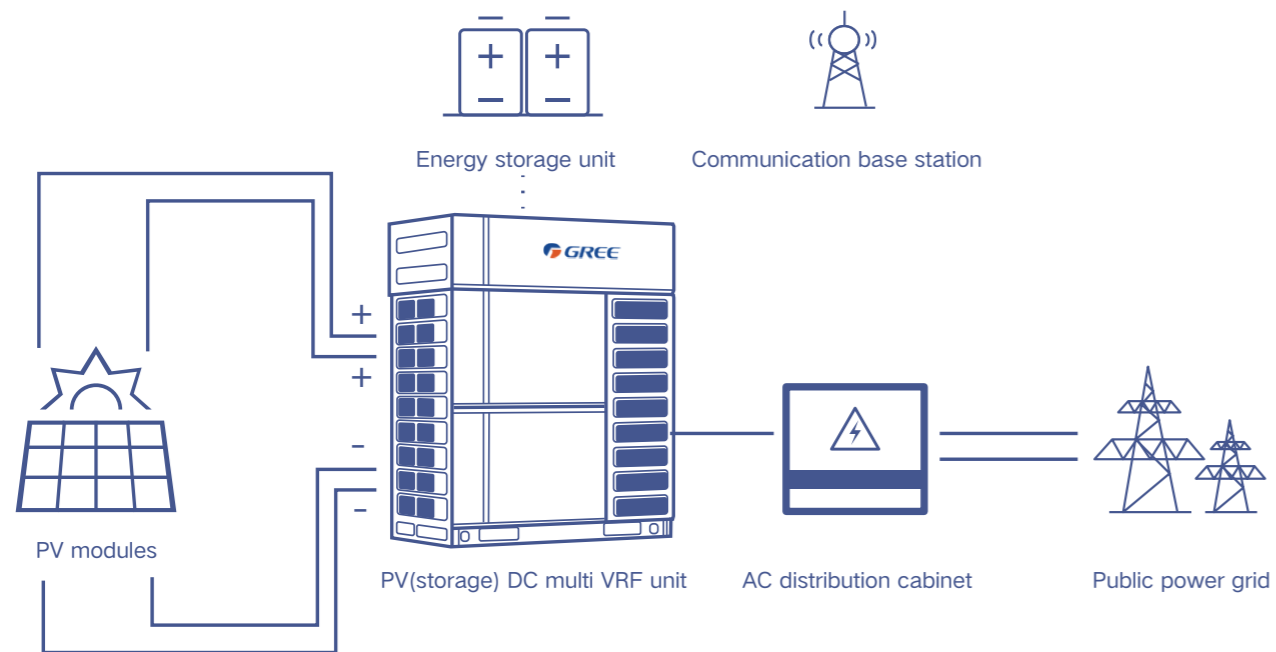
Gree brands are sold widely to more than 190 countries and regions. Action makes the future and innovation makes achievement. Looking forward, Gree will press ahead with its business philosophy of passion, innovation and realization. We aim to build a centenary air conditioning enterprise and create a better life for humankind.

*Gree is the number one brand of air conditioners in the world in 2022;
Footnote: "Source Euromonitor International Limited; Consumer appliances 2023ed; retail volume sales in units, 2022 data."

PV (storage) DC multi VRF unit



Introduction



Photovoltaic (Storage) Energy System (Customized)

Gree Photovoltaic (Storage) DC multi VRF system is a clean, safe, reliable, intelligent and efficient new energy air-conditioning integrated system. The system includes photovoltaic power generation system, energy storage expansion system, HVAC system and G-IEMS energy information management system. The system can be flexibly combined with multiple modules, and provides a complete power generation system solution according to customer/user needs, with outstanding economic benefits. It has been widely used in household, commercial and light industry applications, meeting different applications in factories, buildings, schools, hotels, hospitals, residences, office buildings, laboratories, exhibition halls, commercial complexes, etc.

The system integrates many core technologies such as "photovoltaic (storage) DC direct-driven technology", "multi-terminal multimode commutation technology", "four-quadrant full-controlled rectification technology", "full network adaptive technology". It has successively obtained IEC, UL, CE, IEEE, DEWA, SAA and other international mainstream certifications. Products have been widely used in 25 countries and regions such as the United States, Saudi Arabia, Spain, Australia, Brazil, Nigeria, Singapore, UAE, etc., truly providing global customers/users with high-value green energy system services.

Qualification and Honors



China Patent Gold Award



Geneva International Invention Gold Medal



International Quality Innovation Award



British RAC Cooling Industry Award

- 2013 ● The photovoltaic air-conditioning system "without electricity charges" was developed, and the relevant technical achievements had been certified by authoritative institutions to reach the "world leading" level.
- 2014 ● Completed the development of the full series of first-generation photovoltaic multi VRF system. Gree photovoltaic air-conditioning system began to serve the world.
- 2015 ● The photovoltaic direct-driven inverter centrifuge system project won the "British RAC Cooling Industry Award".
- 2016 ● Photovoltaic direct-driven inverter air conditioner technology has entered the "National Energy Saving and Emission Reduction Promotion and Application Catalogue" for 5 consecutive years since 2016.
- 2017 ● The R&D and application of photovoltaic DC direct-driven inverter air conditioning system won the "International Quality Innovation Award" of Spain.
- 2018 ● The "air-conditioning optical storage direct current key technology and application" project results had reached the "world leading" level after authoritative appraisal; the independent patent* "photovoltaic direct-driven system and its control method" won the Chinese patent gold medal.

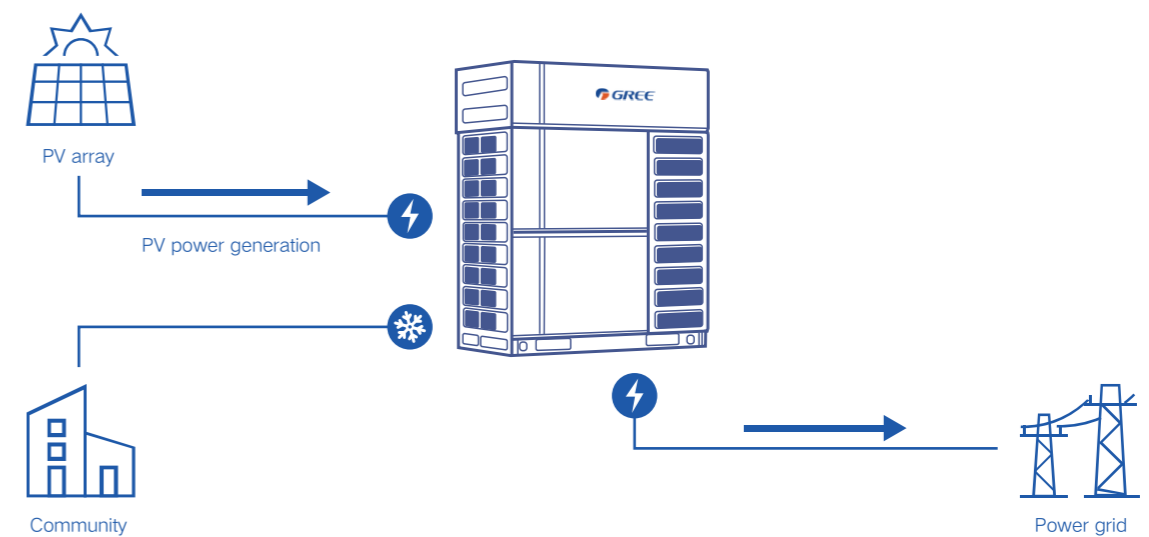
5 Working Modes



1

PV power generation mode

When the user has no cooling demand, the air conditioner does not need to work, then the system is equivalent to a PV power station, and the PV power can be supplied to other appliances or to the grid, creating economic benefits for users.

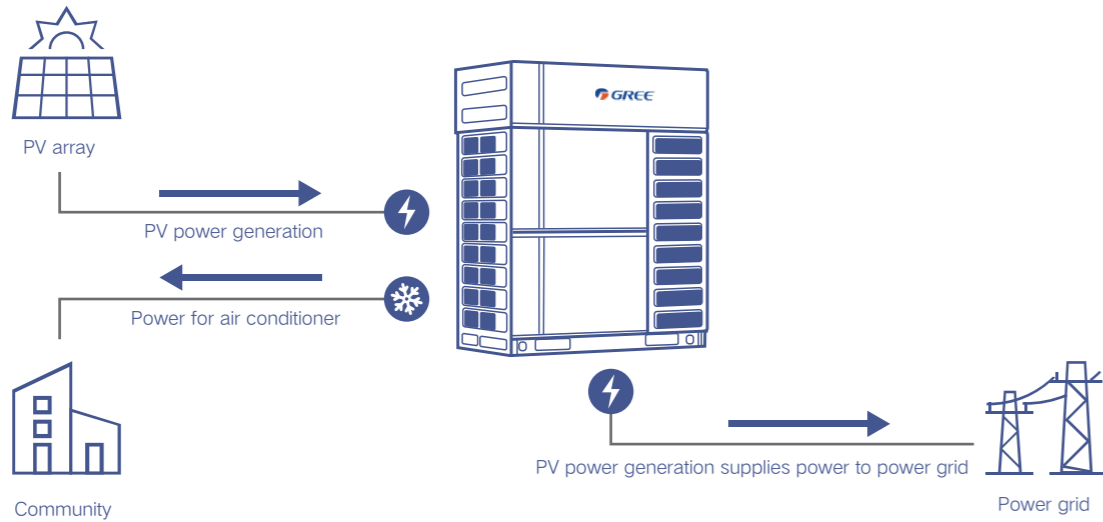


Gree photovoltaic (storage) DC multi VRF system is composed of PV system, energy storage system, air conditioning system and energy information management system. The air conditioning is the center of energy and information, PV is the source of clean electricity, while energy storage is optional. Let's explain it from its five working modes.

2

PV air conditioning and power generation mode

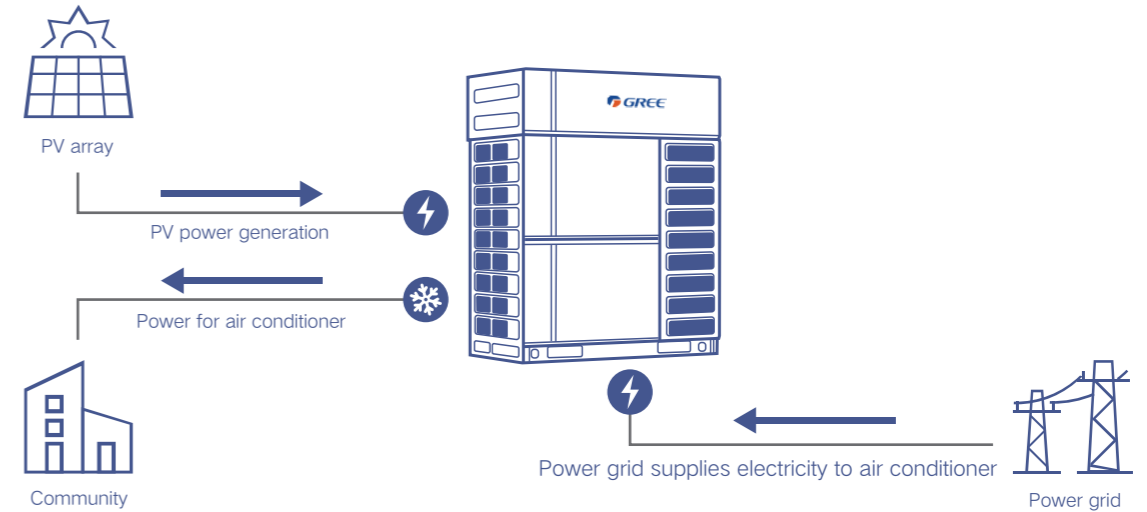
In the case of sufficient sunlight, when PV power is more than the power consumed by air conditioners, PV power is given priority to air conditioners, while the residual PV power is supplied to other electric appliances or public power grid. Thus, additional benefit is brought to users.



4

Hybrid power supply mode

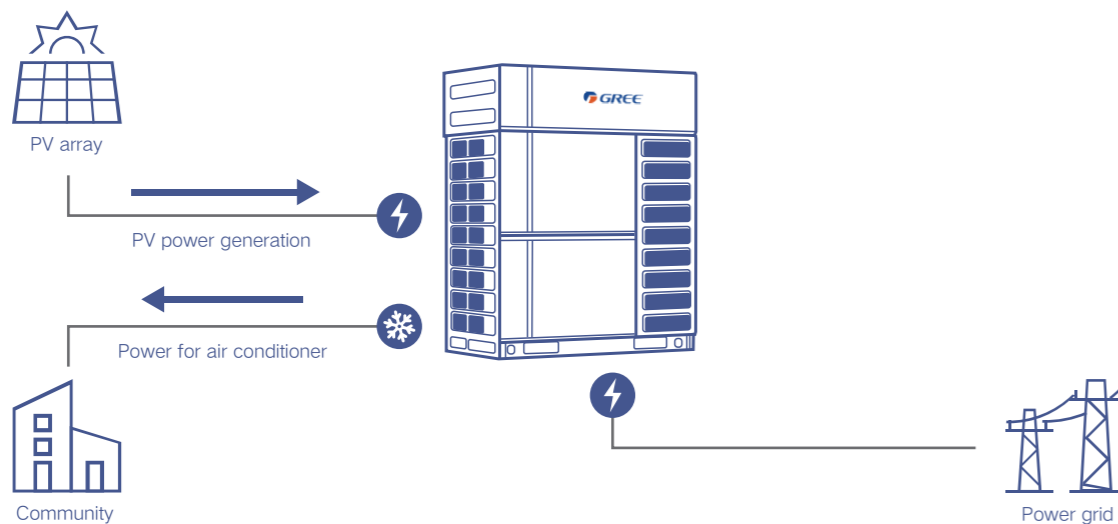
In the case of insufficient sunlight, when PV power is less than the power consumed by air conditioners, PV power is given priority to the air conditioners, and the public power grid will supplement the power for the realization of hybrid power supply.



3

PV air conditioning mode

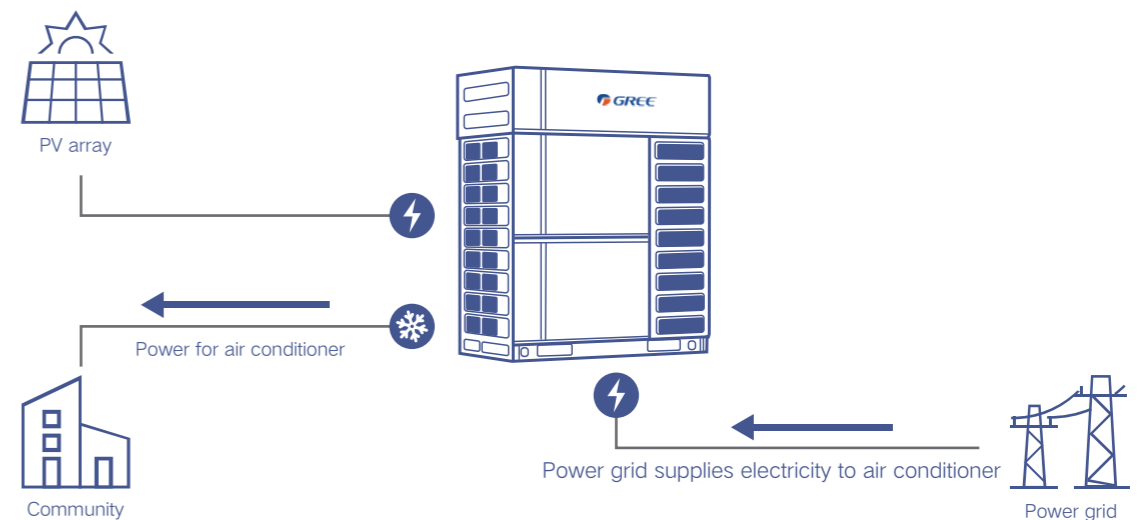
When PV power is equal to the power consumed by air conditioners, the air conditioning power is completely provided by PV power, which truly achieves the effect of zero carbon emission.



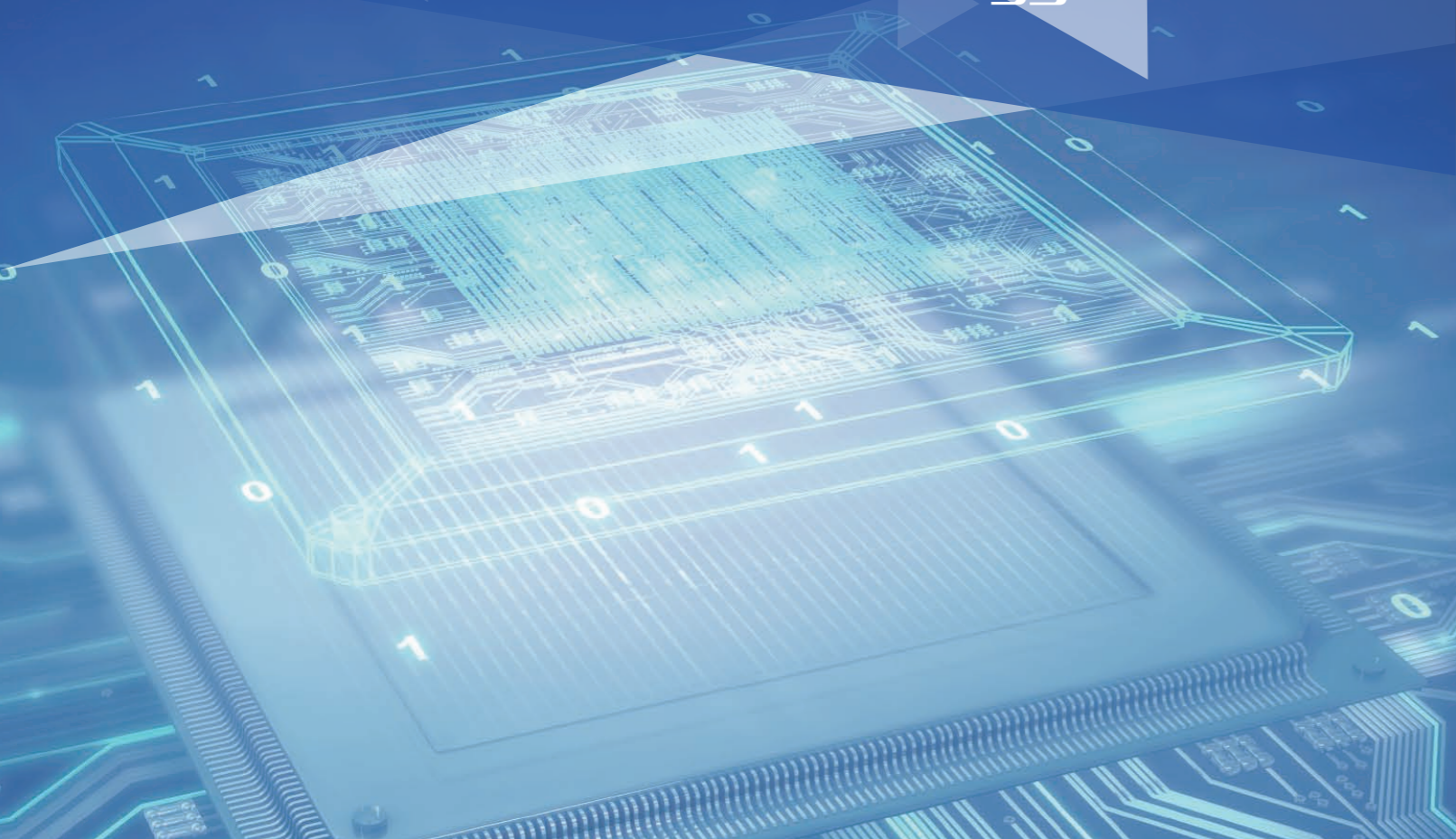
5

Air conditioning mode

In the evening or the weather without sunlight, the photovoltaic system cannot generate electricity, all the electricity required for air conditioning comes from the public power grid, then the system is a conventional air conditioning system.



Electricity Charge Photovoltaic (Storage) DC Direct-driven Technology



Gree Electric has always been committed to the research and innovation of low-carbon energy-saving technologies. The self-developed photovoltaic (storage) DC direct-driven technology perfectly combines photovoltaic power generation and power consumption of air conditioner, forming a photovoltaic (storage) DC multi VRF system. The system runs with high energy efficiency and can realize zero electricity charge for comprehensive operation, which can remove the stereotype of “electric tiger” for air conditioners.

Efficient combination of new energy and air conditioner The system has both power generation and backup functions

Photovoltaic (storage) DC direct-driven technology. Photovoltaic (storage) DC power directly drives the operation of air conditioners. The direct-driven utilization rate reaches 98%. It is high-efficiency and self-sufficient.

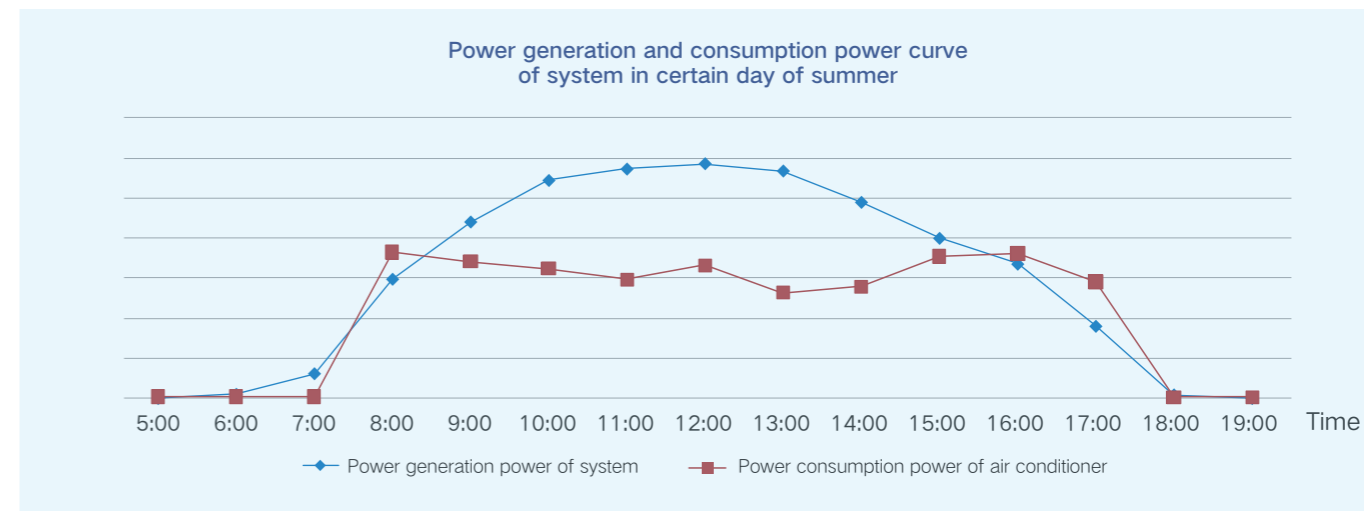
Compared with the non-direct-driven system, it saves multiple AC-DC conversion processes, reduces equipment investment, and improves system efficiency by more than 6%.

The innovative dynamic load tracking MPPT technology can track the maximum power point generated by the photovoltaic system in real time. Combined with the electricity consumption characteristics of the air conditioner, it realizes the maximum utilization of photovoltaic power by the system.

The electricity consumption characteristics of air conditioners are consistent with the characteristics of photovoltaic power generation High self-sufficient and self-utilization rate

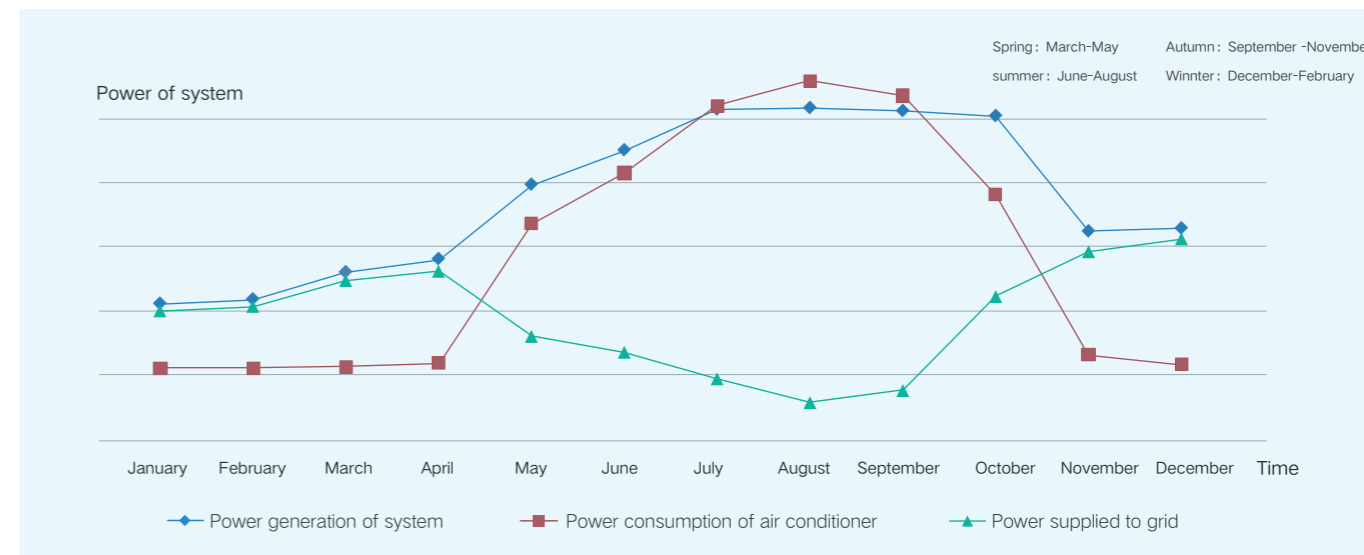
Taking the application in summer as an example, the intensity of solar radiation is high. At this time, photovoltaic power generation and air conditioning power consumption are relatively high. Meanwhile, the characteristics of photovoltaic power generation and air-conditioning electricity consumption are consistent, so that the self-sufficient and self-utilization rate of the system is high.

Under certain conditions, the system can be self-sufficient.



The system's annual power generation and consumption are flat, and the comprehensive power consumption of the grid can be zero

According to the rated design requirements of the system, the photovoltaic power generation capacity is equal to the system power consumption in the whole year (the power drawn by the system from the power grid is equal to the power generated by the system and supplied to the power grid), and the comprehensive power consumption of the power grid is zero.



*Zero electricity charge means under certain using habit, power generation of system in the whole year period \geq power consumption of system, thus there is no need to pay electricity charge after comprehensive amortized computation.

Waste

Multimode Commutation Technology

Gree photovoltaic (storage) DC multi VRF system adopts self-developed multimode commutation technology to realize rapid switching of photovoltaic power generation, air conditioning power consumption and power grid interaction. The dynamic switching time of the five types of working modes is less than 10ms. The power of the system is given priority to ensure the operation of the air conditioner, and the surplus power is stored or connected to the power grid in real time to realize the full utilization of photovoltaic power and avoid waste of power generation and consumption.

Fast switching, no delay in power generation

The switching time of the five working modes of the system is less than 10ms

Multi-energy complement, uninterrupted power consumption

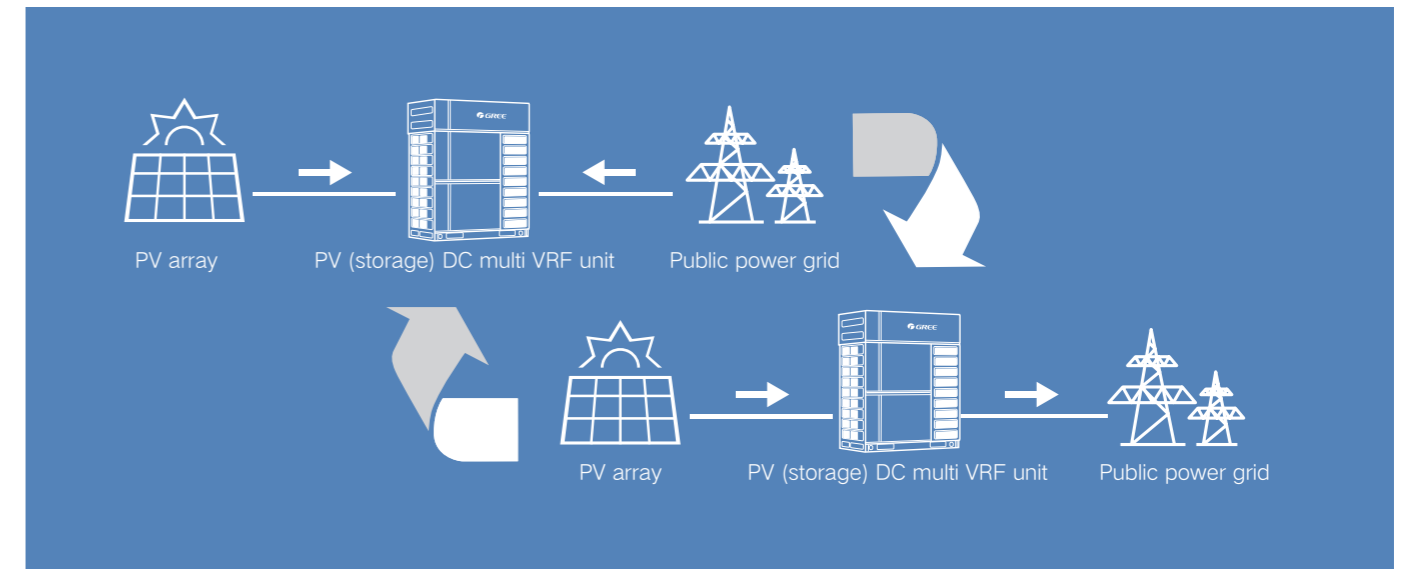
Multi-energy linkage among photovoltaic storage, load and power grid; photovoltaic takes priority, energy storage for complement, power grid for support

Real-time power power grid connection, no waste of surplus electricity

Surplus electricity can be stored or connected to power grid in real time to realize full utilization of photovoltaic power

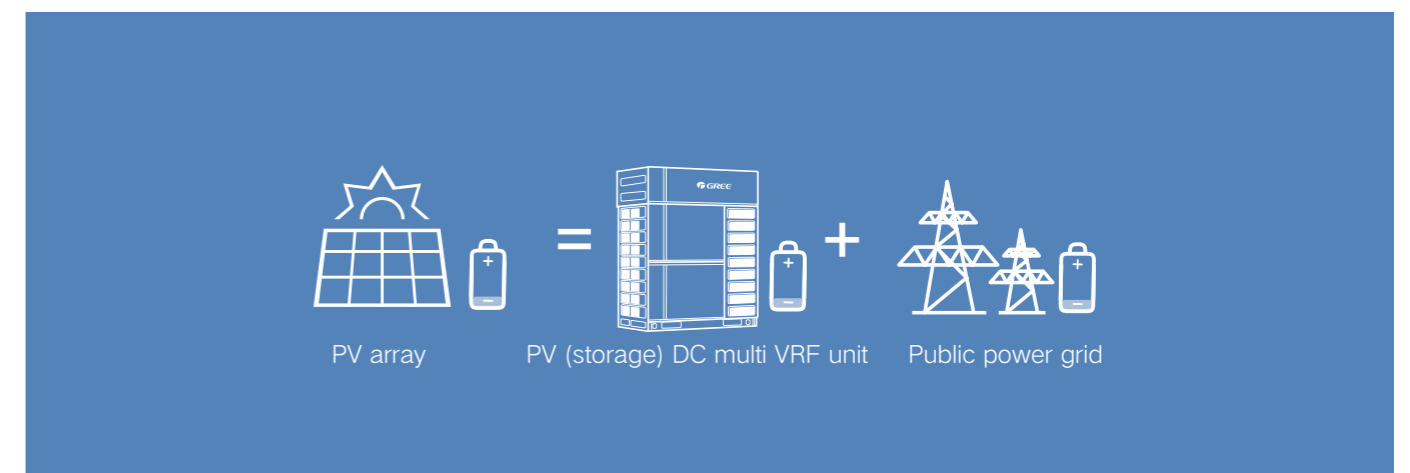
Fast switching, no delay in power generation

The multimode commutation model constructed by photovoltaic system, air conditioning system and power grid, the system DC bus is accessed, and electric energy can flow in both directions and can achieve multi-channel mixing on the DC side, ensuring the fast and free switching of the five modes of the system.



Real-time power grid connection, no waste of surplus electricity

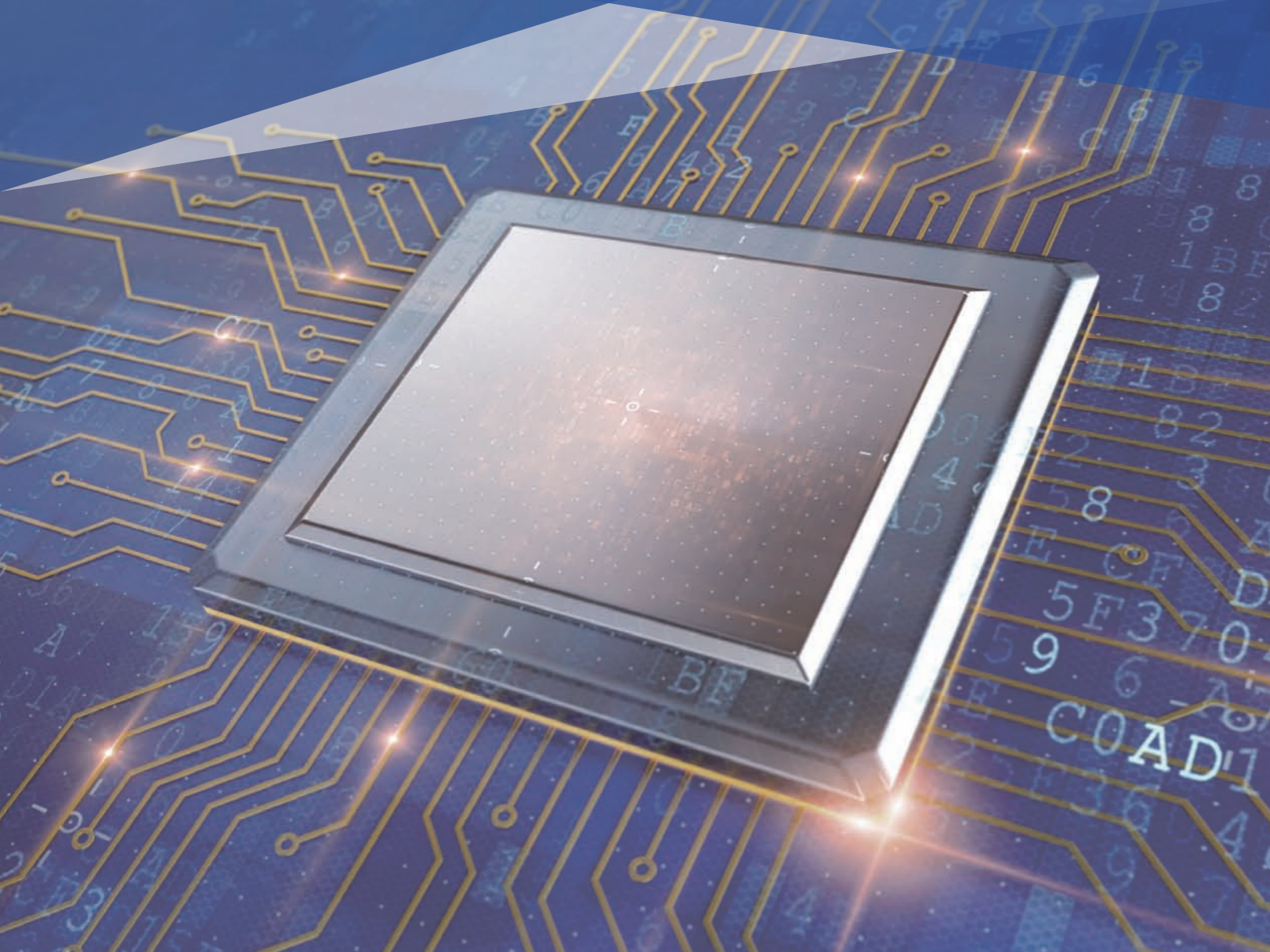
When there is still a surplus after the photovoltaic power meets the application requirements of the system, the system power can be connected to the power grid in real time, which can be used by other electrical equipment to realize the full utilization of photovoltaic power.



¹Note: Energy storage is optional function, for any question please contact Gree sales representative.
²Note: The energy storage system must work with IEMS system.

Worry

Full Network Adaptive Low Voltage DC Technology



Gree photovoltaic (storage) DC multi VRF system is based on customer/user needs, after years of iterative development, technology and product have undergone continuous innovation, such as full network adaptive technology of grid, dual-friendly four-quadrant inverter technology, intrinsically safe low voltage DC technology, etc. for high-quality upgrade of system, bringing customers/users a safer, more reliable and worry-free energy system service.

Full network adaptive green inverter, no need to worry about grid interaction

The voltage system is self-adaptive, and the grid frequency is self-adjusted. Using four-quadrant full-controlled rectification technology, the power factor reaches 0.99 when the air conditioner is running at rated power, and the total harmonic content is less than 1.5%, realizing both system-friendly and eco-friendly.

Low-voltage and DC component, no need to worry about safety for maintenance

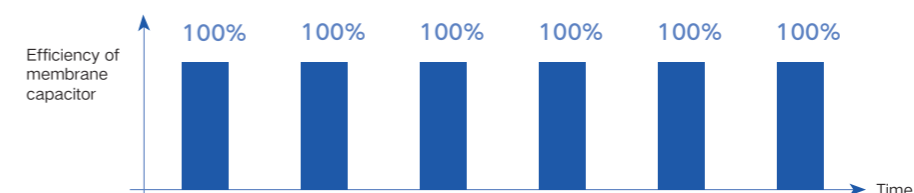
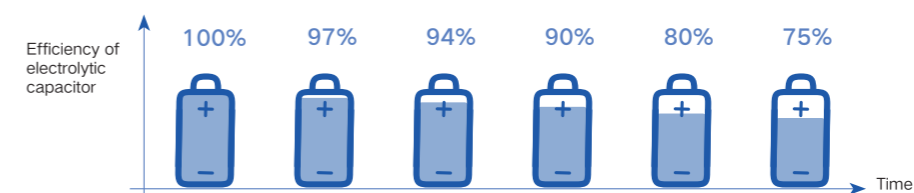
Photovoltaic (storage) DC air conditioner adopts low-voltage DC components to ensure the safety of the unit, reduce the hidden dangers of unintentional electric shocks in the use and maintenance of the unit, reduce the arcing and fire hazards caused by the aging of the wires, and improve the EMC performance.

Without neutral wire, no need to worry about engineering installation

The system adopts the design idea of low-voltage power distribution circuit and the cancel of the zero wire to eliminate the influence of phase sequence, which can completely eliminate the problems of reverse engineering phase sequence connection and virtual zero wire connection, expanding the adaptability of unit engineering, and reducing engineering installation costs.

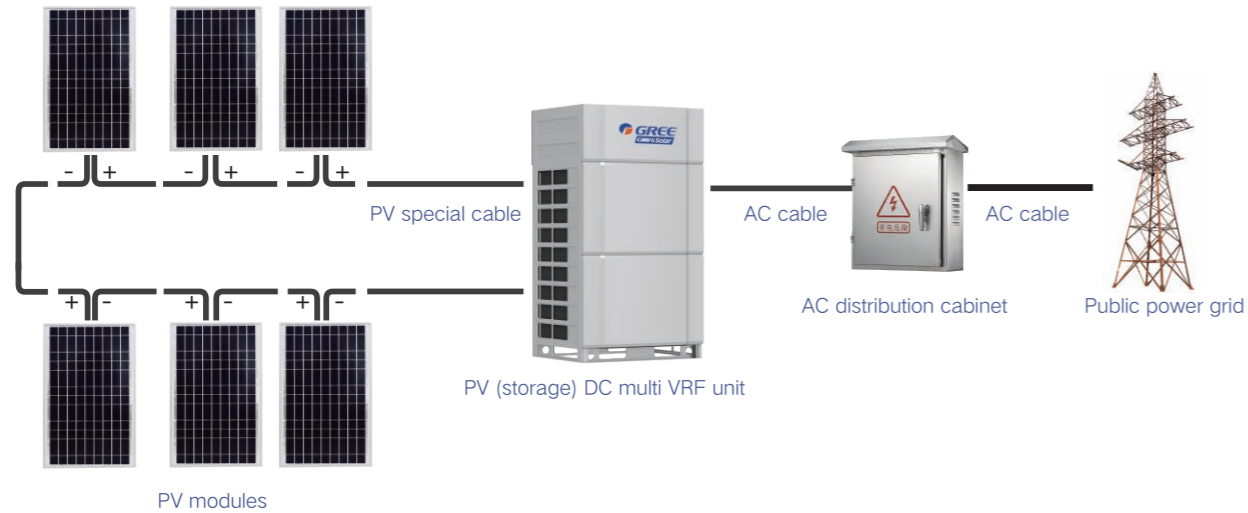
Membrane capacitor, no need to worry about the service life of unit

Membrane capacitors have the advantages of high voltage resistance, non-polarity, and ability to withstand high forward and reverse high pulse voltages. Photovoltaic (storage) DC air conditioners use film capacitors to replace electrolytic capacitors, and the unit has a longer service life.



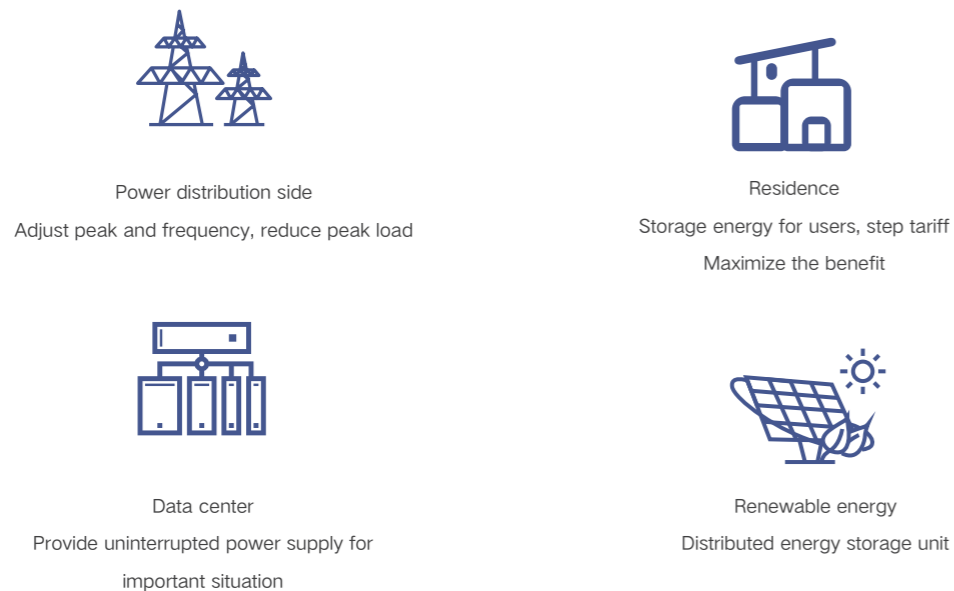
▶ Complete and simple photovoltaic module assembly, convenient and worry-free

According to the climatic conditions of the project location, parameters of photovoltaic DC multi VRF unit and photovoltaic module series, Gree provides users with more space for photovoltaic modules. The photovoltaic DC multi VRF unit reserves the photovoltaic industry common interfaces for easy plug and users, so that users can use it conveniently.



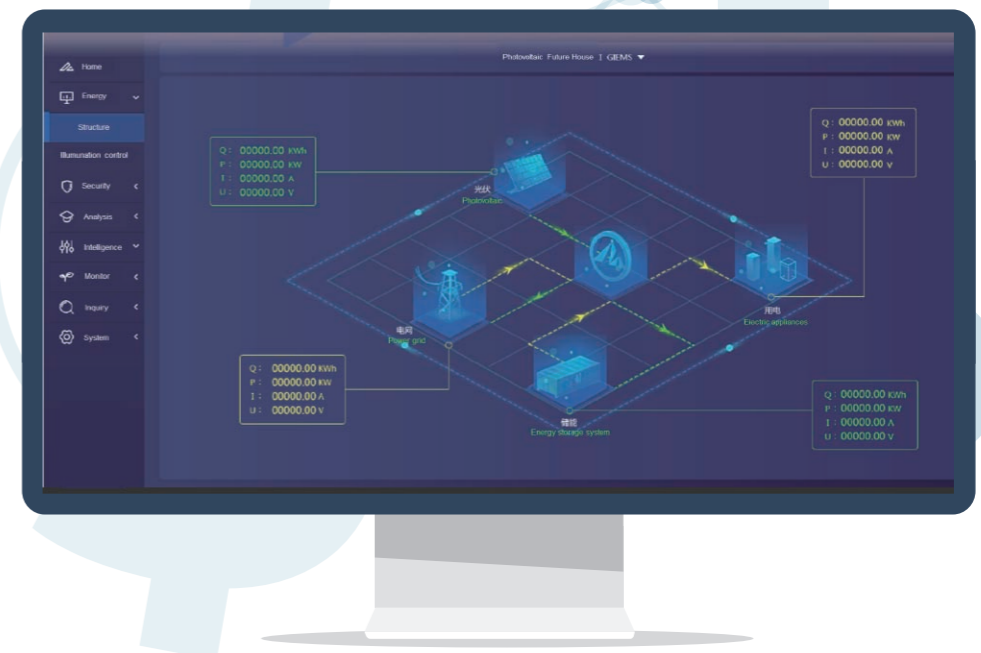
▶ Expanding the energy storage system to meet the needs of diverse application scenarios, with powerful functions

Gree Intelligent Energy Storage System is an integrated intelligent energy storage system that integrates energy storage cells, BMS and DC/DC. It balances charge and discharge throughout the life cycle and operates intelligently by means of information, which brings excellent economic benefits to users. After the photovoltaic DC multi VRF system is matched with the energy storage system, the energy complementary architecture is improved, the system working mode is expanded, the system supply and demand linkage performance is further optimized, and the multi-scenario adaptive operation is intelligently realized.



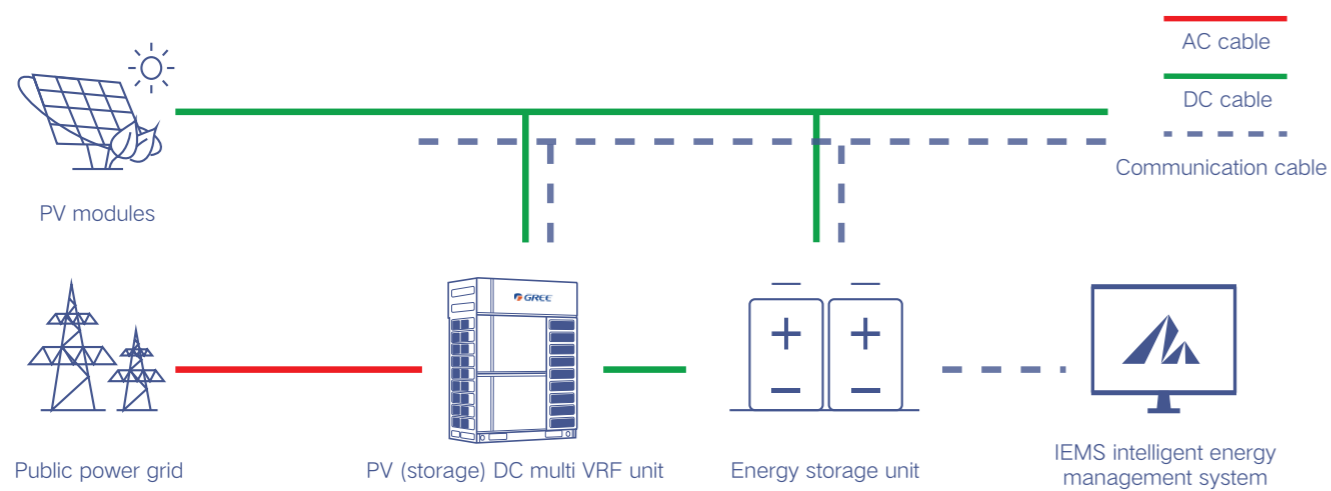
▶ Equipped with G-IEMS energy information management system, real-time monitoring of energy flow, intelligent management

Gree Energy Information Management System (G-IEMS) is an energy dispatching management system that combines unique DC direct-driven technology to realize the linkage of source, storage, network, load and storage. It integrates clean power generation, high-efficiency power consumption, real-time monitoring, lightweight interaction, supports energy dispatching and refined management, with power-level operation response, voltage/current level status diagnosis and balance regulation. It can realize functions such as safety management alarm, real-time energy monitoring, equipment intelligent control, energy efficiency expert analysis, etc., to achieve the purpose of safe use, intelligent management, energy saving and emission reduction.



Note: The energy storage system must work with IEMS; if a certain multi VRF system is without energy storage system, it should use photovoltaic centralized controller to conduct monitoring.

Simple Version of Solution for Photovoltaic DC Multi VRF System



Note: This function is subject to the actual product development. Please consult the sales person for details.

Photovoltaic direct current,
safe and high-efficiency

Self-generation and self-sufficient,
eco-friendly and energy-saving

Real-time power generation
benefit

Solve the problem of high electricity costs for conventional air-conditioning operations, avoid peak-to-valley arbitrage operation in areas where there is a price difference between peak and valley power, save combiner box and labor costs, convenient engineering installation, and real-time grid connection of excess power, which improves efficiency and reduces costs.

Outdoor Unit System Parameters



Model			GMV-Y1 20WL/A-E	GMV-Y1 40WL/A-E	GMV-Y1 60WL/A-E	
Cooling	Capacity	kW	12.1	14	16	
		kBtu/h	41.29	47.77	54.59	
Heating	Capacity	kW	14	16	18	
		kBtu/h	47.77	54.59	61.42	
Power supply	V/Ph/Hz	-	220-240V~50Hz			
Rated power input		kW	5.9	6.5	7	
Rated current		A	29.8	32.8	35.5	
Connected indoor unit	Maximum quantity	-	7	8	9	
Static pressure		Pa	0	0	0	
Refrigerant	Type	-	R410A	R410A	R410A	
	Factory charge	kg	3.3	3.3	3.3	
Pipe connections	Liquid pipe	mm	9.52	9.52	9.52	
	Gas pipe	mm	15.9	15.9	19.05	
Sound power level	Duct	Cooling	dB(A)	74	75	76
		Heating	dB(A)	75	75	77
	Floor ceiling	Cooling	dB(A)	74	74	77
		Heating	dB(A)	75	76	77
Net dimensions (W×H×D)		mm	900×340×1345	900×340×1345	900×340×1345	
Packed dimensions (W×H×D)		mm	993×453×1500	993×453×1500	993×453×1500	
Net weight		kg	120	120	120	
Gross weight		kg	130	130	130	
Ambient temp. operation range	Cooling	°C	-5~52	-5~52	-5~52	
	Heating	°C	-20~27	-20~27	-20~27	
PV input voltage range		-	120V-400V			
Isc PV		-	15A/15A			
Max. continuous input current		-	12.5A*2			
Max. PV input power		-	3kW×2			
MPPT voltage range		-	100V~360V			
Rated AC voltage		-	230Vac ~50Hz			
Operating voltage range		-	195Vac~253Vac			
Operating frequency range		-	49~51Hz			
Power factor (full load)		-	0.99			
Cooling method		-	Air-cooled			



8~12HP



14~16HP

Model		GMV-Y224WM/D-X(S)	GMV-Y280WM/D-X(S)	GMV-Y335WM/D-X(S)	GMV-Y400WM/D-X(S)	GMV-Y450WM/D-X(S)	
Capacity range	HP	8	10	12	14	16	
Cooling-35°C ⁽¹⁾	Capacity	kW	22.2	27.9	33.3	40.0	45.0
		But/h	76000	95000	114000	136000	154000
	Power input	kW	5.28	6.69	8.77	9.58	11.76
	Current input	A	9.4	11.9	15.7	16.0	19.8
	EER	(But/h)/W	14.40	14.20	13.00	14.20	13.10
Cooling-46°C ⁽²⁾	Capacity	kW	18.9	23.7	28.5	33.9	38.1
		But/h	65000	81000	97000	116000	130000
	Power input	kW	5.91	7.57	9.90	10.13	11.87
	Current input	A	10.60	13.50	17.70	17.20	20.10
	EER	(But/h)/W	11.00	10.70	9.80	11.45	10.95
Heating ⁽³⁾	Capacity	kW	24.9	31.5	37.5	45.0	50.0
		But/h	85000	107000	128000	154000	170000
	Power input	kW	5.40	7.13	9.37	11.10	13.00
	Current input	A	9.60	12.70	16.70	19.80	23.20
	COP	W/W	4.61	4.42	4.00	4.05	3.85
Power supply	V/Ph/Hz	380-415V 3~50/60Hz					
Connected indoor unit	Maximum quantity	13	16	19	23	26	
Refrigerant	Type	R410A					
	Factory charge	kg	7.2	7.5	7.5	7.5	7.5
Pipe connections	Liquid pipe	mm	Φ9.52	Φ9.52	Φ12.7	Φ12.7	Φ12.7
	Gas pipe	mm	Φ19.05	Φ22.2	Φ25.4	Φ25.4	Φ28.6
Sound pressure level	dB(A)	58	59	60	59	60	
Net dimensions (W×H×D)	mm	930×775×1690	930×775×1690	930×775×1690	1340×775×1690	1340×775×1690	
Packed dimensions (W×H×D)	mm	1000×830×1855	1000×830×1855	1000×830×1855	1400×830×1855	1400×830×1855	
Net weight	kg	265	265	270	330	330	
Gross weight	kg	275	275	280	345	315	
Ambient temp. operation range	Cooling	°C	-15 ⁽⁴⁾ ~55	-15 ⁽⁴⁾ ~55	-15 ⁽⁴⁾ ~55	-15 ⁽⁴⁾ ~55	-15 ⁽⁴⁾ ~55
	Heating	°C	-25~24	-25~24	-25~24	-25~24	-25~24
Max DC open circuit voltage	V	1000	1000	1000	1000	1000	
Power Factor	-	0.99	0.99	0.99	0.99	0.99	
DC voltage	Vdc	560-780	560-780	560-780	560-780	560-780	
AC voltage	-	380-415V 3~50/60Hz	380-415V 3~50/60Hz	380-415V 3~50/60Hz	380-415V 3~50/60Hz	380-415V 3~50/60Hz	
Max AC Output Power	W	14000	14000	14000	18000	18000	
Moisture protection	-	IP34	IP34	IP34	IP34	IP34	

Notes:

(1) Indoor temperature: 27°CDB, 19°CWB; outdoor temperature: 35°CDB;

(2) Indoor temperature: 29°CDB, 19°CWB; outdoor temperature: 46°CDB;

(3) Indoor temperature: 20°CDB; outdoor temperature: 7°CDB, 6°CWB;

(4) Cooling at -15°C~-5°C is conditional. Please inquire our engineers for more information.

Model		GMV-Y120WL/A-T(A)	GMV-Y140WL/A-T(A)	GMV-Y160WL/A-T(A)	
Cooling	Capacity	kW	12.1	14	16
	Power input	kW	3.45	4	4.5
	Current input	A	17.4	20.2	22.7
Heating	Capacity	kW	14	16	18
	Power input	kW	3.55	4.35	5
	Current input	A	18	22	25.3
Pipe connections	Liquid pipe	mm	9.52	9.52	9.52
	Gas pipe	mm	15.9	15.9	19.05
Sound pressure level	dB(A)	57	58	59	
Net dimensions (W×H×D)	mm	900×340×1345	900×340×1345	900×340×1345	
Packed dimensions (W×H×D)	mm	998×458×1500	998×458×1500	998×458×1500	
Net weight	kg	124	124	124	
Gross weight	kg	136	136	136	
Ambient temp. operation range	Cooling	°C	-5~52	-5~52	-5~52
	Heating	°C	-20~24	-20~24	-20~24
Max DC open circuit voltage	V	400	400	400	
DC voltage	Vdc	120~400	120~400	120~400	
AC voltage	-	220-240V~50Hz	220-240V~50Hz	220-240V~50Hz	
Max PV input power	W	6000	6000	6000	
Moisture protection	-	IPX4	IPX4	IPX4	

Outdoor Combination

HP	Model	GMV-Y224WM/D-X(S)	GMV-Y280WM/D-X(S)	GMV-Y335WM/D-X(S)	GMV-Y400WM/D-X(S)	GMV-Y450WM/D-X(S)
8	GMV-Y224WM/D-X(S)	◆				
10	GMV-Y280WM/D-X(S)		◆			
12	GMV-Y335WM/D-X(S)			◆		
14	GMV-Y400WM/D-X(S)				◆	
16	GMV-Y450WM/D-X(S)					◆
18	GMV-Y504WM/D-X(S)	◆	◆			
20	GMV-Y560WM/D-X(S)		◆◆			
22	GMV-Y615WM/D-X(S)		◆	◆		
24	GMV-Y680WM/D-X(S)		◆		◆	
26	GMV-Y730WM/D-X(S)		◆			◆
28	GMV-Y785WM/D-X(S)			◆		◆
30	GMV-Y850WM/D-X(S)				◆	◆
32	GMV-Y900WM/D-X(S)					◆◆
34	GMV-Y960WM/D-X(S)		◆◆		◆	
36	GMV-Y1010WM/D-X(S)		◆◆			◆
38	GMV-Y1065WM/D-X(S)		◆	◆		◆
40	GMV-Y1130WM/D-X(S)		◆		◆	◆
42	GMV-Y1180WM/D-X(S)		◆			◆◆
44	GMV-Y1235WM/D-X(S)			◆		◆◆
46	GMV-Y1300WM/D-X(S)				◆	◆◆
48	GMV-Y1350WM/D-X(S)					◆◆◆
50	GMV-Y1410WM/D-X(S)		◆◆		◆	◆
52	GMV-Y1460WM/D-X(S)		◆◆			◆◆
54	GMV-Y1515WM/D-X(S)		◆	◆		◆◆
56	GMV-Y1580WM/D-X(S)		◆		◆	◆◆
58	GMV-Y1630WM/D-X(S)		◆			◆◆◆
60	GMV-Y1685WM/D-X(S)			◆		◆◆◆
62	GMV-Y1750WM/D-X(S)				◆	◆◆◆
64	GMV-Y1800WM/D-X(S)					◆◆◆◆

High Static Pressure Duct Type Indoor Unit

Model			GMV-ND22PHS/D-T	GMV-ND25PHS/D-T	GMV-ND28PHS/D-T	GMV-ND32PHS/D-T	GMV-ND36PHS/D-T
Capacity	Cooling	kW	2.2	2.5	2.8	3.2	3.6
	Heating	kW	2.5	2.8	3.2	3.6	4.0
Power supply	V/Ph/Hz		220-240V~50Hz & 208-230V~60Hz				
Power consumption	W		50	50	50	50	50
Airflow volume(H/M/L)	m³/h		550/480/400	550/480/400	550/480/400	600/500/420	600/500/420
Rated current	Cooling	A	0.4	0.4	0.4	0.4	0.4
	Heating	A	0.4	0.4	0.4	0.4	0.4
ESP	Pa		50/0~80	50/0~80	50/0~80	50/0~80	50/0~80
Sound pressure level(H/M/L)	dB(A)		35/31/29	35/31/29	35/31/29	36/33/30	36/33/30
Connecting pipe	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 (W×D×H)	Outline	mm	700×700×300	700×700×300	700×700×300	700×700×300	700×700×300
	Package	mm	897×808×360	897×808×360	897×808×360	897×808×360	897×808×360
Net weight / Gross weight	kg		30.5/36	30.5/36	30.5/36	30.5/36	30.5/36
Loading quantity	40' GP	unit	168	168	168	168	168
	40' HQ	unit	196	196	196	196	196

Model			GMV-ND40PHS/D-T	GMV-ND45PHS/D-T	GMV-ND50PHS/D-T	GMV-ND56PHS/D-T	GMV-ND63PHS/D-T
Capacity	Cooling	kW	4.0	4.5	5.0	5.6	6.3
	Heating	kW	4.5	5.0	5.6	6.3	7.1
Power supply	V/Ph/Hz		220-240V~50Hz & 208-230V~60Hz				
Power consumption	W		100	100	100	105	105
Airflow volume(H/M/L)	m³/h		850/700/600	850/700/600	850/700/600	1000/800/700	1000/800/700
Rated current	Cooling	A	0.8	0.8	0.8	0.8	0.8
	Heating	A	0.8	0.8	0.8	0.8	0.8
ESP	Pa		50/0~80	50/0~80	50/0~80	90/0~200	90/0~200
Sound pressure level(H/M/L)	dB(A)		40/36/32	40/36/32	40/36/32	40/36/32	40/36/32
Connecting pipe	Liquid	mm	Φ6.35	Φ6.35	Φ6.35	Φ9.52	Φ9.52
	Gas	mm	Φ12.7	Φ12.7	Φ12.7	Φ15.9	Φ15.9
Drain pipe	External dia.	mm	Φ25	Φ25	Φ25	Φ25	Φ25
	Thickness	mm	2.5	2.5	2.5	2.5	2.5
Dimension (W×D×H)	Outline	mm	700×700×300	700×700×300	700×700×300	1000×700×300	1000×700×300
	Package	mm	897×808×360	897×808×360	897×808×360	1205×813×360	1205×813×360
Net weight / Gross weight	kg		31.5/37	31.5/37	31.5/37	40.5/46.5	40.5/46.5
Loading quantity	40' GP	unit	168	168	168	138	138
	40' HQ	unit	196	196	196	161	161

Model			GMV-ND71PHS/D-T	GMV-ND80PHS/D-T	GMV-ND90PHS/D-T	GMV-ND100PHS/D-T	GMV-ND112PHS/D-T
Capacity	Cooling	kW	7.1	8.0	9.0	10.0	11.2
	Heating	kW	8.0	9.0	10.0	11.2	12.5
Power supply	V/Ph/Hz		220-240V~50Hz & 208-230V~60Hz				
Power consumption	W		110	110	170	170	170
Airflow volume(H/M/L)	m³/h		1250/1050/950	1250/1050/950	1800/1450/1250	1800/1450/1250	2000/1600/1400
Rated current	Cooling	A	0.9	0.9	1.4	1.4	1.4
	Heating	A	0.9	0.9	1.4	1.4	1.4
ESP	Pa		90/0~200	90/0~200	90/0~200	90/0~200	90/0~200
Sound pressure level(H/M/L)	dB(A)		40/36/32	40/36/32	42/38/34	42/38/34	43/39/36
Connecting pipe	Liquid	mm	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52
	Gas	mm	Φ15.9	Φ15.9	Φ15.9	Φ15.9	Φ15.9
Drain pipe	External dia.	mm	Φ25	Φ25	Φ25	Φ25	Φ25
	Thickness	mm	2.5	2.5	2.5	2.5	2.5
Dimension (W×D×H)	Outline	mm	1000×700×300	1000×700×300	1400×700×300	1400×700×300	1400×700×300
	Package	mm	1205×813×360	1205×813×360	1601×813×365	1601×813×365	1601×813×365
Net weight / Gross weight	kg		41/47	41/47	54/61	54/61	54/61
Loading quantity	40' GP	unit	138	138	84	84	84
	40' HQ	unit	161	161	98	98	98

Model			GMV-ND125PHS/D-T	GMV-ND140PHS/D-T	GMV-ND160PHS/D-T	GMV-ND180PHS/D-T
Capacity	Cooling	kW	12.5	14.0	16.0	18.0
	Heating	kW	14.0	16.0	18.0	20.0
Power supply	V/Ph/Hz		220-240V~50Hz & 208-230V~60Hz			
Power consumption	W		170	240	240	350
Airflow volume(H/M/L)	m³/h		2000/1600/1400	2350/1900/1650	2500/2000/1750	3000/2600/2000
Rated current	Cooling	A	1.4	1.8	1.8	2.0
	Heating	A	1.4	1.8	1.8	2.0
ESP	Pa		90/0~200	90/0~200	90/0~200	90/0~170
Sound pressure level(H/M/L)	dB(A)		44/40/37	44/41/38	45/43/40	49/47/44
Connecting pipe	Liquid	mm	Φ9.52	Φ9.52	Φ9.52	Φ9.52
	Gas	mm	Φ15.9	Φ15.9	Φ19.05	Φ19.05
Drain pipe	External dia.	mm	Φ25	Φ25	Φ25	Φ25
	Thickness	mm	2.5	2.5	2.5	2.5
Dimension (W×D×H)	Outline	mm	1400×700×300	1400×700×300	1400×700×300	1400×700×300
	Package	mm	1601×813×365	1601×813×365	1601×813×365	1678×808×365
Net weight / Gross weight	kg		54/61	54.5/61.5	54.5/61.5	58/67
Loading quantity	40' GP	unit	84	84	84	84
	40' HQ	unit	98	98	98	98

Model			GMV-ND224PH/A-T*	GMV-ND280PH/A-T*	GMV-ND400PH/AR-X*	GMV-ND450PH/AR-X*	GMV-N560PH/AR-M*
Capacity	Cooling	kW	22.4	28.0	40.0	45.0	56.0
	Heating	kW	25.0	31.0	45.0	50.0	63.0
Power supply	V/Ph/Hz		220-240V~50Hz & 208-230V~60Hz	220-240V~50Hz & 208-230V~60Hz	380-415V 3N~50/60Hz	380-415V 3N~50/60Hz	380V 3N~50Hz
Power consumption	W		800	900	2500	2550	2700
Airflow volume(H/M/L)	m³/h		4000/3600/3200	4400/4000/3600	8000/6100/5050	8200/6600/5550	10000
Rated Current	Cooling	A	3.7	4.1	2.7	4.1	5.5
	Heating	A	3.7	4.1	2.7	4.1	5.5
ESP	Pa		100/50~200	100/50~200	200/50~250	200/50~250	200
Sound pressure level(H/M/L)	dB(A)		54/52/49	55/52/50	61/59/56	62/60/57	63
Connecting pipe	Liquid	mm	Φ9.52	Φ9.52	Φ12.7	Φ12.7	Φ15.9
	Gas	mm	Φ19.05	Φ22.2	Φ25.4	Φ28.6	Φ28.6
Drain pipe	External dia.	mm	Φ25	Φ25	Φ25	Φ25	Φ25
	Thickness	mm	2.0	2.0	1.2	1.2	1.2
Dimension (W×D×H)	Outline	mm	1483×791×385	1686×870×450	1680×900×650	1900×1100×700	1900×1100×850
	Package	mm	1578×883×472	1788×988×580	1923×1153×850	2123×1463×905	2123×1463×1060
Net weight/Gross weight	kg		82/104	105/140	170/220	236/317	282/364
Loading quantity	40' GP	unit	60	52	24	16	16
	40' HQ	unit	75	52	36	16	16

Note: This model is without water pump.

General Static Pressure Duct Type Indoor Unit

Model			GMV-ND18PLS/C1-T	GMV-ND22PLS/C1-T	GMV-ND25PLS/C1-T	GMV-ND28PLS/C1-T	GMV-ND32PLS/C1-T
Capacity	Cooling	kW	1.80	2.20	2.50	2.80	3.20
	Heating	kW	2.20	2.50	2.80	3.20	3.60
Power supply		V/Ph/Hz	220-240V-50Hz & 208-230V-60Hz				
Power consumption		W	28	28	28	28	37
Airflow volume(H/M/L)		m ³ /h	450/350/200	450/350/200	450/350/200	450/350/200	550/400/300
Rated Current	Cooling	A	0.2	0.2	0.2	0.2	0.3
	Heating	A	0.2	0.2	0.2	0.2	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)	30/25/22	30/25/22	30/25/22	30/25/22	31/27/25
Connecting pipe	Liquid	mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35
	Gas	mm	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ12.7
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	710 × 462 × 200	710 × 462 × 200	710 × 462 × 200	710 × 462 × 200	710 × 462 × 200
	Package	mm	1008 × 568 × 275	1008 × 568 × 275	1008 × 568 × 275	1008 × 568 × 275	1008 × 568 × 275
Net weight/Gross weight		kg	18.5/23.5	18.5/23.5	18.5/23.5	18.5/23.5	19/24
Loading quantity	40' GP	unit	386	386	386	386	386
	40' HQ	unit	430	430	430	430	430

Model			GMV-ND63PLS/C1-T	GMV-ND71PLS/C1-T	GMV-ND80PLS/C1-T
Capacity	Cooling	kW	6.30	7.10	8.00
	Heating	kW	7.10	8.00	9.00
Power supply		V/Ph/Hz	220-240V-50Hz & 208-230V-60Hz		
Power consumption		W	55	55	95
Airflow volume(H/M/L)		m ³ /h	850/700/550	1100/850/650	1200/950/700
Rated Current	Cooling	A	0.4	0.5	0.8
	Heating	A	0.4	0.5	0.7
ESP		Pa	15/0-30	15/0-30	15/0-30
Sound pressure level (H/M/L)		dB(A)	35/31/29	37/32/30	40/35/31
Connecting pipe	Liquid	mm	Φ9.52	Φ9.52	Φ9.52
	Gas	mm	Φ15.9	Φ15.9	Φ15.9
Drain pipe	External dia.	mm	25	25	25
	Thickness	mm	2.5	2.5	2.5
Dimension (W × D × H)	Outline	mm	1010 × 462 × 200	1310 × 462 × 200	1310 × 462 × 200
	Package	mm	1308 × 568 × 275	1608 × 568 × 275	1608 × 568 × 275
Net weight/Gross weight		kg	25/31	31/37.5	31/37.5
Loading quantity	40' GP	unit	288	229	229
	40' HQ	unit	340	257	257

Model			GMV-ND36PLS/C1-T	GMV-ND40PLS/C1-T	GMV-ND45PLS/C1-T	GMV-ND50PLS/C1-T	GMV-ND56PLS/C1-T
Capacity	Cooling	kW	3.60	4.00	4.50	5.00	5.60
	Heating	kW	4.00	4.50	5.00	5.60	6.30
Power supply		V/Ph/Hz	220-240V-50Hz & 208-230V-60Hz				
Power consumption		W	37	40	40	40	55
Airflow volume(H/M/L)		m ³ /h	550/400/300	750/550/400	750/550/400	750/550/400	850/700/550
Rated Current	Cooling	A	0.3	0.3	0.3	0.3	0.4
	Heating	A	0.3	0.3	0.3	0.3	0.4
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)	31/27/25	33/29/27	33/29/27	33/29/27	35/31/29
Connecting pipe	Liquid	mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ9.52
	Gas	mm	Φ12.7	Φ12.7	Φ12.7	Φ12.7	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	710 × 462 × 200	1010 × 462 × 200	1010 × 462 × 200	1010 × 462 × 200	1010 × 462 × 200
	Package	mm	1008 × 568 × 275	1308 × 568 × 275	1308 × 568 × 275	1308 × 568 × 275	1308 × 568 × 275
Net weight/Gross weight		kg	19/24	24/30	24/30	24/30	25/31
Loading quantity	40' GP	unit	386	288	288	288	288
	40' HQ	unit	430	340	340	340	340

Medium Static Pressure Duct Type Indoor Unit

Model			GMV-ND56PMS/A1-T	GMV-ND63PMS/A1-T	GMV-ND71PMS/A1-T	GMV-ND80PMS/A1-T	GMV-ND90PMS/A1-T	GMV-ND100PMS/A1-T	GMV-ND112PMS/A1-T	GMV-ND125PMS/A1-T	GMV-ND140PMS/A1-T	
Capacity	Cooling	kW	5.6	6.3	7.1	8	9	10	11.2	12.5	14	
	Heating	kW	6.3	7.1	8	9	10	11.2	12.5	14	16	
Power supply		V/Ph/Hz	220-240V-50Hz&208-230V-60Hz									
Power consumption		W	95	95	95	100	120	120	120	170	170	
Airflow volume(H/M/L)		m ³ /h	1100/900/700	1100/900/700	1100/900/700	1100/900/700	1700/1500/1100	1700/1500/1100	1700/1500/1100	2000/1700/1400	2000/1700/1400	
Rated current	Cooling	A	0.72	0.72	0.72	0.75	0.85	0.85	0.85	1.2	1.2	
	Heating	A	0.72	0.72	0.72	0.75	0.85	0.85	0.85	1.2	1.2	
ESP		Pa	50/0-80	50/0-80	50/0-80	50/0-80	50/0-80	50/0-80	50/0-80	50/0-80	50/0-80	
Sound pressure level(H/M/L)		dB(A)	37/34/31	37/34/31	37/34/31	37/34/31	40/36/32	40/36/32	40/36/32	42/40/37	42/40/37	
Connecting	Liquid	mm	Φ9.52	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	Φ15.9	Φ15.9	Φ15.9	Φ15.9	
Drain pipe	External dia.	mm	Φ25	Φ25	Φ25	Φ25	Φ25	Φ25	Φ25	Φ25	Φ25	
	Thickness	mm	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	
Dimension (W × D × H)	Outline	mm	900 × 655 × 260	900 × 655 × 260	900 × 655 × 260	900 × 655 × 260	1340 × 655 × 260	1340 × 655 × 260	1340 × 655 × 260	1340 × 655 × 260	1340 × 655 × 260	
	Package	mm	1115 × 772 × 320	1115 × 772 × 320	1115 × 772 × 320	1115 × 772 × 320	1568 × 770 × 323	1568 × 770 × 323	1568 × 770 × 323	1568 × 770 × 323	1568 × 770 × 323	
Net weight/Gross weight		kg	29.5/34.0	29.5/34.0	29.5/34.0	30.0/34.5	43.5/50.0	43.5/50.0	43.5/50.0	43.5/50.0	43.5/50.0	
Loading quantity	40' GP	unit	224	224	224	224	154	154	154	154	154	
	40' HQ	unit	256	256	256	256	176	176	176	176	176	

360 ° Air Discharge Cassette Indoor Unit

Model			GMV-ND22T/D1-T	GMV-ND28T/D1-T	GMV-ND36T/D1-T	GMV-ND45T/D1-T	GMV-ND50T/D1-T
Capacity	Cooling	kW	2.2	2.8	3.6	4.5	5.0
	Heating	kW	2.5	3.2	4.0	5.0	5.6
Power supply	V/Ph/Hz		220-240V-50Hz & 208-230V-60Hz				
Power consumption	W		40	40	40	50	50
Airflow volume(H/M/L)	m³/h		800/700/600	800/700/600	800/700/600	900/800/700	900/800/700
Rated current	Cooling	A	0.35	0.35	0.35	0.44	0.44
	Heating	A	0.35	0.35	0.35	0.44	0.44
Sound pressure level(H/M/L)	dB(A)		32/29/27	32/29/27	32/29/27	35/30/27	35/30/27
Connecting pipe	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	Φ25	Φ25	Φ25	Φ25	Φ25
	Thickness	mm	2.5	2.5	2.5	2.5	2.5
Main body	Dimension (W × D × H)	Outline	mm	840 × 840 × 200	840 × 840 × 200	840 × 840 × 200	840 × 840 × 200
		Package	mm	933 × 933 × 255	933 × 933 × 255	933 × 933 × 255	933 × 933 × 255
	Net weight/Gross weight	kg	19/23	19/23	19/23	19/23	19/23
Panel	Dimension (W × D × H)	Outline	mm	950 × 950 × 65	950 × 950 × 65	950 × 950 × 65	950 × 950 × 65
		Package	mm	1033 × 1020 × 110	1033 × 1020 × 110	1033 × 1020 × 110	1033 × 1020 × 110
	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	unit	152	152	152	152	152
	40' HQ	unit	169	169	169	169	169

Model			GMV-ND56T/D1-T	GMV-ND63T/D1-T	GMV-ND71T/D1-T	GMV-ND80T/D1-T	GMV-ND90T/D1-T
Capacity	Cooling	kW	5.6	6.3	7.1	8.0	9.0
	Heating	kW	6.3	7.1	8.0	9.0	10.0
Power supply	V/Ph/Hz		220-240V-50Hz & 208-230V-60Hz				
Power consumption	W		60	60	60	75	75
Airflow volume(H/M/L)	m³/h		1100/935/850	1100/935/850	1100/935/850	1400/1000/900	1400/1000/900
Rated current	Cooling	A	0.49	0.49	0.49	0.60	0.60
	Heating	A	0.49	0.49	0.49	0.60	0.60
Sound pressure level(H/M/L)	dB(A)		37/35/32	37/35/32	37/35/32	40/36/31	40/36/31
Connecting pipe	Liquid	mm	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52
	Gas	mm	Φ15.9	Φ15.9	Φ15.9	Φ15.9	Φ15.9
Drain pipe	External dia.	mm	Φ25	Φ25	Φ25	Φ25	Φ25
	Thickness	mm	2.5	2.5	2.5	2.5	2.5
Main body	Dimension (W × D × H)	Outline	mm	840 × 840 × 200	840 × 840 × 200	840 × 840 × 200	840 × 840 × 240
		Package	mm	933 × 933 × 255	933 × 933 × 255	933 × 933 × 255	933 × 933 × 292
	Net weight/Gross weight	kg	21/25	21/25	21/25	22.5/27.5	22.5/27.5
Panel	Dimension (W × D × H)	Outline	mm	950 × 950 × 65	950 × 950 × 65	950 × 950 × 65	950 × 950 × 65
		Package	mm	1033 × 1020 × 110	1033 × 1020 × 110	1033 × 1020 × 110	1033 × 1020 × 110
	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	unit	152	152	152	139	139
	40' HQ	unit	169	169	169	157	157

Model			GMV-ND100T/D1-T	GMV-ND112T/D1-T	GMV-ND125T/D1-T	GMV-ND140T/D1-T	GMV-ND160T/C-T
Capacity	Cooling	kW	10.0	11.2	12.5	14.0	16.0
	Heating	kW	11.2	12.5	14.0	16.0	18.0
Power supply	V/Ph/Hz		220-240V-50Hz & 208-230V-60Hz				
Power consumption	W		100	100	160	160	170
Airflow volume(H/M/L)	m³/h		1550/1200/1000	1550/1200/1000	1800/1450/1150	1800/1450/1150	2000/1800/1430
Rated current	Cooling	A	0.76	0.76	0.85	0.85	1.2
	Heating	A	0.76	0.76	0.85	0.85	1.2
Sound pressure level(H/M/L)	dB(A)		43/39/35	43/39/35	46/41/35	46/41/35	51/48/42
Connecting pipe	Liquid	mm	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52
	Gas	mm	Φ15.9	Φ15.9	Φ15.9	Φ15.9	Φ19.05
Drain pipe	External dia.	mm	Φ25	Φ25	Φ25	Φ25	Φ25
	Thickness	mm	2.5	2.5	2.5	2.5	2.5
Main body	Dimension (W × D × H)	Outline	mm	840 × 840 × 240	840 × 840 × 240	840 × 840 × 290	840 × 840 × 290
		Package	mm	933 × 933 × 292	933 × 933 × 292	933 × 933 × 345	933 × 933 × 345
	Net weight/Gross weight	kg	22.5/27.5	22.5/27.5	25/30.5	25/30.5	36.0/44.0
Panel	Dimension (W × D × H)	Outline	mm	950 × 950 × 65	950 × 950 × 65	950 × 950 × 65	950 × 950 × 65
		Package	mm	1033 × 1020 × 110	1033 × 1020 × 110	1033 × 1020 × 110	1033 × 1020 × 110
	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	unit	139	139	117	117	113
	40' HQ	unit	157	157	135	135	124

360 ° Air Discharge Compact Cassette Indoor Unit

Model			GMV-ND15T/E-T	GMV-ND18T/E-T	GMV-ND22T/E-T	GMV-ND28T/E-T
Capacity	Cooling	kW	1.5	1.8	2.2	2.8
	Heating	kW	1.8	2.2	2.5	3.2
Power supply	V/Ph/Hz		220-240V- 50Hz & 208-230V- 60Hz			
Power consumption	W		30	30	30	30
Airflow volume(H/M/L)	m³/h		460/420/370	460/420/370	500/460/370	570/480/420
Rated current	Cooling	A	0.15	0.15	0.15	0.15
	Heating	A	0.15	0.15	0.15	0.15
Sound pressure level(H/M/L)	dB(A)		33/30/25	33/30/25	36/31/25	36/33/28
Connecting pipe	Liquid	mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35
	Gas	mm	Φ9.52	Φ9.52	Φ9.52	Φ9.52
Drain pipe	External dia.	mm	Φ25	Φ25	Φ25	Φ25
	Thickness	mm	2.5	2.5	2.5	2.5
Main body	Dimension (W × D × H)	Outline	mm	570 × 570 × 265	570 × 570 × 265	570 × 570 × 265
		Package	mm	698 × 653 × 295	698 × 653 × 295	698 × 653 × 295
	Net weight/Gross weight	kg	17.5/22.5	17.5/22.5	17.5/22.5	17.5/22.5
Panel	Model			TF05	TF05	TF05
	Dimension (W × D × H)	Outline	mm	620 × 620 × 47.5	620 × 620 × 47.5	620 × 620 × 47.5
		Package	mm	701 × 701 × 125	701 × 701 × 125	701 × 701 × 125
	Net weight/Gross weight	kg	3.0/4.5	3.0/4.5	3.0/4.5	
Loading quantity	40' GP	unit	378	378	378	
	40' HQ	unit	432	432	432	

Model			GMV-ND36T/E-T	GMV-ND45T/E-T	GMV-ND50T/E-T	GMV-ND56T/E-T
Capacity	Cooling	kW	3.6	4.5	5.0	5.6
	Heating	kW	4.0	5.0	5.6	6.3
Power supply	V/Ph/Hz		220-240V- 50Hz & 208-230V- 60Hz			
Power consumption	W		30	45	45	45
Airflow volume(H/M/L)	m³/h		620/550/480	730/650/560	730/650/560	730/650/560
Rated current	Cooling	A	0.15	0.23	0.23	0.23
	Heating	A	0.15	0.23	0.23	0.23
Sound pressure level(H/M/L)	dB(A)		39/37/35	43/41/39	43/41/39	43/41/39
Connecting pipe	Liquid	mm	Φ6.35	Φ6.35	Φ6.35	Φ9.52
	Gas	mm	Φ12.7	Φ12.7	Φ12.7	Φ15.9
Drain pipe	External dia.	mm	Φ25	Φ25	Φ25	Φ25
	Thickness	mm	2.5	2.5	2.5	2.5
Main body	Dimension (W × D × H)	Outline	mm	570 × 570 × 265	570 × 570 × 265	570 × 570 × 265
		Package	mm	698 × 653 × 295	698 × 653 × 295	698 × 653 × 295
	Net weight/Gross weight	kg	17.5/22.5	17.5/22.5	17.5/22.5	17.5/22.5
Panel	Model			TF05	TF05	TF05
	Dimension (W × D × H)	Outline	mm	620 × 620 × 47.5	620 × 620 × 47.5	620 × 620 × 47.5
		Package	mm	701 × 701 × 125	701 × 701 × 125	701 × 701 × 125
	Net weight/Gross weight	kg	3.0/4.5	3.0/4.5	3.0/4.5	
Loading quantity	40' GP	unit	378	378	378	
	40' HQ	unit	432	432	432	

2-way Cassette Indoor Unit

Model			GMV-ND28TS/B-T	GMV-ND36TS/B-T	GMV-ND45TS/B-T	GMV-ND50TS/B-T	GMV-ND56TS/B-T	GMV-ND63TS/B-T	GMV-ND71TS/B-T	GMV-ND80TS/B-T
Capacity	Cooling	kW	2.8	3.6	4.5	5.0	5.6	6.3	7.1	8.0
	Heating	kW	3.2	4.0	5.0	5.6	6.3	7.1	8.0	9.0
Power supply	V/Ph/Hz		220-240V~50Hz & 208-230V~60Hz							
Power consumption	W		20	20	30	30	30	30	55	55
Airflow volume(H/M/L)	m³/h		671/616/513	671/616/513	715/616/513	715/616/513	764/709/676	764/709/676	816/745/660	816/745/660
Rated current	Cooling	A	0.25	0.25	0.30	0.30	0.30	0.30	0.49	0.49
	Heating	A	0.25	0.25	0.30	0.30	0.30	0.30	0.49	0.49
Sound pressure level(H/M/L)	dB(A)		33/31/28	33/31/28	35/31/28	35/31/28	37/35/32	37/35/32	39/37/34	39/37/34
Connecting pipe	Liquid	mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ9.52	Φ9.52	Φ9.52	Φ9.52
	Gas	mm	Φ9.52	Φ12.7	Φ12.7	Φ12.7	Φ15.9	Φ15.9	Φ15.9	Φ15.9
Drain pipe	External dia.	mm	Φ25	Φ25	Φ25	Φ25	Φ25	Φ25	Φ25	Φ25
	Thickness	mm	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
Main body	Dimension (W×D×H)	Outline	mm	790×630×280	790×630×280	790×630×280	790×630×280	790×630×280	790×630×280	790×630×280
		Package	mm	1033×740×365	1033×740×365	1033×740×365	1033×740×365	1033×740×365	1033×740×365	1033×740×365
	Net weight/Gross weight	kg	25.5/33.0	25.5/33.0	25.5/33.0	25.5/33.0	26.0/33.5	26.0/33.5	26.0/33.5	26.0/33.5
Panel	Dimension (W×D×H)	Outline	mm	1100×710×28	1100×710×28	1100×710×28	1100×710×28	1100×710×28	1100×710×28	1100×710×28
		Package	mm	1230×843×130	1230×843×130	1230×843×130	1230×843×130	1230×843×130	1230×843×130	1230×843×130
	Net weight/Gross weight	kg	6.0/10.5	6.0/10.5	6.0/10.5	6.0/10.5	6.0/10.5	6.0/10.5	6.0/10.5	6.0/10.5
Loading quantity	40' GP	unit	144	144	144	144	144	144	144	144
	40' HQ	unit	166	166	166	166	166	166	166	166

1-way Cassette Indoor Unit

Model			GMV-ND22TD/A-T	GMV-ND28TD/A-T	GMV-ND36TD/A-T	GMV-ND45TD/A-T	GMV-ND50TD/A-T	GMV-ND56TD/A-T
Capacity	Cooling	kW	2.2	2.8	3.6	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		220-240V~50Hz & 208-230V~60Hz					
Power consumption	W		30	30	30	45	45	45
Airflow volume(H/M/L)	m³/h		600/500/450	600/500/450	600/500/450	830/600/500	830/600/500	890/667/564
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
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	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 (W×D×H)	Outline	mm	987×385×178	987×385×178	987×385×178	987×385×178	987×385×178
		Package	mm	1307×501×310	1307×501×310	1307×501×310	1307×501×310	1307×501×310
	Net weight/Gross weight	kg	20/27	20/27	20/27	21/28.5	21/28.5	21/28.5
Panel	Dimension (W×D×H)	Outline	mm	1200×460×55	1200×460×55	1200×460×55	1200×460×55	1200×460×55
		Package	mm	1265×536×121	1265×536×121	1265×536×121	1265×536×121	1265×536×121
	Net weight/Gross weight	kg	4.2/6	4.2/6	4.2/6	4.2/6	4.2/6	
Loading quantity	40' GP	unit	215	215	215	215	215	
	40' HQ	unit	242	242	242	242	242	

Model			GMV-ND90TS/B-T	GMV-ND100TS/B-T	GMV-ND112TS/B-T	GMV-ND125TS/B-T	GMV-ND140TS/B-T	GMV-ND160TS/B-T
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	18.0
Power supply	V/Ph/Hz		220-240V~50Hz & 208-230V~60Hz					
Power consumption	W		90	90	90	100	100	110
Airflow volume(H/M/L)	m³/h		1470/1310/1275	1470/1310/1275	1470/1310/1275	1565/1400/1275	1565/1400/1275	1755/1565/1275
Rated current	Cooling	A	0.62	0.62	0.62	0.69	0.69	0.75
	Heating	A	0.62	0.62	0.62	0.69	0.69	0.75
Sound pressure level(H/M/L)	dB(A)		41/39/37	41/39/37	41/39/37	43/41/39	43/41/39	46/43/40
Connecting pipe	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	Φ25	Φ25	Φ25	Φ25	Φ25	Φ25
	Thickness	mm	2.5	2.5	2.5	2.5	2.5	2.5
Main body	Dimension (W×D×H)	Outline	mm	1350×630×280	1350×630×280	1350×630×280	1350×630×280	1350×630×280
		Package	mm	1591×740×365	1591×740×365	1591×740×365	1591×740×365	1591×740×365
	Net weight/Gross weight	kg	40.5/50.5	40.5/50.5	40.5/50.5	40.5/50.5	40.5/50.5	40.5/50.5
Panel	Dimension (W×D×H)	Outline	mm	1660×710×28	1660×710×28	1660×710×28	1660×710×28	1660×710×28
		Package	mm	1790×843×130	1790×843×130	1790×843×130	1790×843×130	1790×843×130
	Net weight/Gross weight	kg	9.5/15.5	9.5/15.5	9.5/15.5	9.5/15.5	9.5/15.5	
Loading quantity	40' GP	unit	96	96	96	96	96	
	40' HQ	unit	109	109	109	109	109	

Model			GMV-ND63TD/B-T	GMV-ND71TD/B-T	GMV-ND80TD/B-T
Capacity	Cooling	kW	6.3	7.1	8.0
	Heating	kW	7.1	8.0	9.0
Power supply	V/Ph/Hz		220-240V~50Hz & 208-230V~60Hz		
Power consumption	W		57	83	83
Airflow volume(H/M/L)	m³/h		880/680/600	1000/680/600	1000/680/600
Rated current	Cooling	A	0.55	0.86	0.86
	Heating	A	0.55	0.86	0.86
Sound pressure level(H/M/L)	dB(A)		42/39/36	44/39/36	44/39/36
Connecting pipe	Liquid	mm	Φ9.52	Φ9.52	Φ9.52
	Gas	mm	Φ15.9	Φ15.9	Φ15.9
Drain pipe	External dia.	mm	Φ25	Φ25	Φ25
	Thickness	mm	2.50	2.50	2.50
Main body	Dimension (W×D×H)	Outline	mm	1200×470×200	1200×470×200
		Package	mm	1438×548×255	1438×548×255
	Net weight/Gross weight	kg	26/31.5	26/31.5	26/31.5
Panel	Dimension (W×D×H)	Outline	mm	1350×555×64	1350×555×64
		Package	mm	1443×648×155	1443×648×155
	Net weight/Gross weight	kg	7.8/13.5	7.8/13.5	7.8/13.5
Loading quantity	40' GP	unit	170	170	170
	40' HQ	unit	189	189	189

Floor Ceiling Type Indoor Unit

Model			GMV-ND28ZD/B-T	GMV-ND36ZD/B-T	GMV-ND50ZD/B-T	GMV-ND56ZD/B-T	GMV-ND63ZD/B-T	GMV-ND71ZD/B-T
Capacity	Cooling	kW	2.8	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		220-240V~50Hz & 208-230V~60Hz					
Power consumption	W		35	35	55	55	80	80
Airflow volume(H/M/L)	m³/h		600/500/450	600/500/450	750/650/600	750/650/600	1350/1200/1050	1350/1200/1050
Rated current	Cooling	A	0.2	0.2	0.3	0.3	0.4	0.4
	Heating	A	0.2	0.2	0.3	0.3	0.4	0.4
Sound pressure level(H/M/L)	dB(A)		36/32/29	36/32/29	42/39/36	42/39/36	44/41/38	44/41/38
Connecting pipe	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 (W × D × H)	Outline	mm	870 × 665 × 235	870 × 665 × 235	870 × 665 × 235	870 × 665 × 235	1200 × 665 × 235	1200 × 665 × 235
	Package	mm	973 × 770 × 300	973 × 770 × 300	973 × 770 × 300	973 × 770 × 300	1303 × 770 × 300	1303 × 770 × 300
Net weight/Gross weight	kg		24/29	24/29	25/30	25/30	32/38	32/38
Loading quantity	40' GP	unit	252	252	252	252	189	189
	40' HQ	unit	288	288	288	288	216	216

Model			GMV-ND90ZD/B-T	GMV-ND112ZD/B-T	GMV-ND125ZD/B-T	GMV-ND140ZD/B-T	GMV-ND160ZD/B-T
Capacity	Cooling	kW	9.0	11.2	12.5	14.0	16.0
	Heating	kW	10.0	12.5	14.0	16.0	18.0
Power supply	V/Ph/Hz		220-240V~50Hz & 208-230V~60Hz				
Power consumption	W		120	120	120	150	175
Airflow volume(H/M/L)	m³/h		1550/1400/1250	1800/1600/1400	1800/1600/1400	2000/1750/1600	2150/1850/1650
Rated current	Cooling	A	0.7	0.7	0.7	0.8	0.9
	Heating	A	0.7	0.7	0.7	0.8	0.9
Sound pressure level(H/M/L)	dB(A)		47/44/41	47/44/42	47/44/42	49/45/43	52/48/45
Connecting pipe	Liquid	mm	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52
	Gas	mm	Φ15.9	Φ15.9	Φ15.9	Φ15.9	Φ19.05
Drain pipe	External dia.	mm	Φ17	Φ17	Φ17	Φ17	Φ17
	Thickness	mm	1.75	1.75	1.75	1.75	1.75
Dimension (W × D × H)	Outline	mm	1200 × 665 × 235	1570 × 665 × 235	1570 × 665 × 235	1570 × 665 × 235	1570 × 665 × 235
	Package	mm	1303 × 770 × 300	1669 × 770 × 300	1669 × 770 × 300	1669 × 770 × 300	1669 × 770 × 300
Net weight/Gross weight	kg		33/39	41/48	41/48	43/50	43/50
Loading quantity	40' GP	unit	189	147	147	147	147
	40' HQ	unit	216	168	168	168	168

Wall-mounted Type Indoor Unit

Model			GMV-ND15G/B4B-T	GMV-ND18G/B4B-T	GMV-ND22G/B4B-T	GMV-ND28G/B4B-T	GMV-ND36G/B4B-T	GMV-ND45G/B4B-T	GMV-ND50G/B4B-T
Capacity	Cooling	kW	1.5	1.8	2.2	2.8	3.6	4.5	5.0
	Heating	kW	1.8	2.2	2.5	3.2	4.0	5.0	5.6
Power supply	V/Ph/Hz		220-240V~50Hz & 208-230V~60Hz						
Power consumption	W		20	20	20	20	25	35	35
Airflow volume(H/M/L)	m³/h		500/440/300	500/440/300	500/440/300	500/440/300	630/460/320	850/580/500	850/580/500
Rated current	Cooling	A	0.1	0.1	0.1	0.1	0.12	0.17	0.17
	Heating	A	0.1	0.1	0.1	0.1	0.12	0.17	0.17
Sound pressure level(H/M/L)	dB(A)		35/33/30	35/33/30	35/33/30	35/33/30	38/35/31	43/40/37	43/40/37
Connecting pipe	Liquid	mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35
	Gas	mm	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ12.7	Φ12.7	Φ12.7
Drain pipe	External dia.	mm	Φ20	Φ20	Φ20	Φ20	Φ20	Φ20	Φ20
	Thickness	mm	1.5	1.5	1.5	1.5	1.5	1.5	1.5
Dimension (W × D × H)	Outline	mm	845 × 209 × 289	845 × 209 × 289	845 × 209 × 289	845 × 209 × 289	845 × 209 × 289	970 × 224 × 300	970 × 224 × 300
	Package	mm	976 × 281 × 379	976 × 281 × 379	976 × 281 × 379	976 × 281 × 379	976 × 281 × 379	1096 × 308 × 395	1096 × 308 × 395
Net weight/Gross weight	kg		10.5/12.5	10.5/12.5	10.5/12.5	10.5/12.5	10.5/12.5	12.5/15.5	12.5/15.5
Loading quantity	40' GP	unit	576	576	576	576	576	448	448
	40' HQ	unit	576	576	576	576	576	512	512

Model			GMV-ND56G/B4B-T	GMV-ND63G/B4B-T	GMV-ND71G/B4B-T	GMV-ND80G/B4B-T	GMV-ND90G/B4B-T	GMV-ND100G/B4B-T
Capacity	Cooling	kW	5.6	6.3	7.1	8.0	9.0	9.5
	Heating	kW	6.3	7.1	7.5	9.0	10.0	10.5
Power supply	V/Ph/Hz		220-240V~50Hz & 208-230V~60Hz					
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
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	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	Φ20	Φ20	Φ20	Φ20	Φ20	Φ20
	Thickness	mm	1.5	1.5	1.5	1.5	1.5	1.5
Dimension (W × D × H)	Outline	mm	1078 × 246 × 325	1078 × 246 × 325	1078 × 246 × 325	1350 × 258 × 326	1350 × 258 × 326	1350 × 258 × 326
	Package	mm	1203 × 338 × 425	1203 × 338 × 425	1203 × 338 × 425	1496 × 357 × 433	1496 × 357 × 433	1496 × 357 × 433
Net weight/Gross weight	kg		16/19	16/19	16/19	20/24	20/24	20/24
Loading quantity	40' GP	unit	282	282	282	228	228	228
	40' HQ	unit	329	329	329	266	266	266

Console Indoor Unit

Model			GMV-ND22C/A-T	GMV-ND28C/A-T	GMV-ND36C/A-T	GMV-ND45C/A-T	GMV-ND50C/A-T
Capacity	Cooling	kW	2.2	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		220-240V~50Hz & 208-230V~60Hz				
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
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
Sound pressure level(H/M/L)	dB(A)		38/33/27	38/33/27	40/37/32	46/43/39	46/43/39
Connecting pipe	Liquid	mm	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	Φ28	Φ28	Φ28	Φ28	Φ28
	Thickness	mm	1	1	1	1	1
Dimension (W × D × H)	Outline	mm	700 × 215 × 600	700 × 215 × 600	700 × 215 × 600	700 × 215 × 600	700 × 215 × 600
	Package	mm	788 × 283 × 777	788 × 283 × 777	788 × 283 × 777	788 × 283 × 777	788 × 283 × 777
Net weight/Gross weight	kg		16/19	16/19	16/19	16/19	16/19
Loading quantity	40' GP	unit	348	348	348	348	348
	40' HQ	unit	348	348	348	348	348

Floor Standing Type

Model			GMV-ND100L/A-T			GMV-ND140L/A-T		
Capacity	Cooling	kW	10.0			14.0		
	Heating	kW	11.0			15.0		
Power supply	V/Ph/Hz		220-240V~50Hz & 208-230V~60Hz					
Power consumption	W		200			200		
Airflow volume(H/M/L)	m³/h		1850/1600/1400			1850/1600/1400		
Sound pressure level(H/M/L)	dB(A)		50/48/46			50/48/46		
Connecting pipe	Liquid	mm	Φ9.52			Φ9.52		
	Gas	mm	Φ15.9			Φ15.9		
Drain pipe	External dia.	mm	Φ31			Φ31		
	Thickness	mm	4.5			4.5		
Dimension (W × D × H)	Outline	mm	580 × 400 × 1870			580 × 400 × 1870		
	Package	mm	738 × 545 × 2083			738 × 545 × 2083		
Net weight/Gross weight	kg		54.0/74.0			57.0/77.0		
Loading quantity	40' GP	unit	67			67		
	40' HQ	unit	67			67		

Concealed Floor Standing Type

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	4.0	5.0	6.3	7.1	8.0
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
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	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	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Dimension (W × D × H)	Outline	mm	700 × 200 × 615	700 × 200 × 615	700 × 200 × 615	900 × 200 × 615	1100 × 200 × 615	1100 × 200 × 615	1100 × 200 × 615
	Package	mm	893 × 305 × 743	893 × 305 × 743	893 × 305 × 743	1123 × 305 × 743	1323 × 305 × 743	1323 × 305 × 743	1323 × 305 × 743
Net weight/Gross weight	kg		23/30	23/30	23/30	27/36	32/41	32/41	32/41
Loading quantity	40' GP	unit	273	273	273	217	175	175	175
	40' HQ	unit	312	312	312	248	200	200	200

AHU-KIT

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			14.0			28.0			56.0			
	Heating	kW	4.0			8.0			16.0			31.5			63.0			
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	9.0	11.2	14.0	22.4	28.0	33.5	40.0	45.0	50.4	56.0	84.0
	Heating	kW	3.2	4.0	5.0	6.3	8.0	10.0	12.5	16.0	25.0	31.5	37.5	45.0	50.0	56.5	63.0	94.5
Power input	W		8			8			8			8			8			
Power supply	V/Ph/Hz		220-240V~50Hz & 208-230V~60Hz															
Size of connection pipe	AHU-KIT (ex-factory pipe size)	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	
		mm	Φ6.35	Φ6.35	Φ6.35	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ12.7	Φ12.7	Φ12.7	Φ15.9	Φ15.9	Φ19.05	
	Air handling unit	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	Φ28.6	Φ31.8
Connection method			Brazeing 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			
Package dimension(W × D × H)	mm		539 × 461 × 247			539 × 461 × 247			539 × 461 × 247			539 × 461 × 247			759 × 645 × 180			
Net weight	kg		10.0			10.5			10.5			10.5			13.0			
Gross weight	kg		13.0			13.5			13.5			13.5			17.5			
Loading	40' GP	unit	990			990			990			990			702			
	40' HP	unit	1100			1100			1100			1100			756			

AHU-KIT

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		GMV-N560U/C-T +GMV-N560U/C-T +GMV-N140U/C-T		GMV-N560U/C-T +GMV-N560U/C-T +GMV-N280U/C-T		GMV-N560U/C-T +GMV-N560U/C-T +GMV-N560U/C-T							
Defaulted capacity of ex-factory	Capacity		840+140		840+280		840+560		840+840		840+840+140		840+840+280		840+840+560		840+840+840			
	Cooling	kW	98.0		112.0		140.0		168.0		182.0		196.0		224.0		252.0			
	Heating	kW	110.5		126.0		157.5		189.0		204.5		220.5		252.0		283.5			
Power input	W		8+8		8+8		8+8		8+8+8		8+8+8		8+8+8		8+8+8		8+8+8			
Power supply	V/Ph/Hz		220-240V~50Hz & 208-230V~60Hz																	
Size of connection pipe	Air handling unit	Liquid pipe	mm		Φ19.05		Φ19.05		Φ19.05		Φ19.05		Φ19.05		Φ22.2		Φ22.2		Φ22.2	
		Gas pipe	mm		Φ38.1		Φ38.1		Φ41.3		Φ41.3		Φ41.3		Φ44.5		Φ44.5		Φ44.5	
Connection method			Brazeing Connection																	
Outline dimension (W × D × H)	EXV box	mm	246 × 500 × 120 +203 × 326 × 85		246 × 500 × 120 +203 × 326 × 85		(246 × 500 × 120) × 2		(246 × 500 × 120) × 2 +203 × 326 × 85		(246 × 500 × 120) × 2 +203 × 326 × 85		(246 × 500 × 120) × 2 +203 × 326 × 85		(246 × 500 × 120) × 3					
	Control box	mm	(334 × 284 × 111) × 2		(334 × 284 × 111) × 2		(334 × 284 × 111) × 2		(334 × 284 × 111) × 3		(334 × 284 × 111) × 3		(334 × 284 × 111) × 3		(334 × 284 × 111) × 3					
Package dimension(W × D × H)	mm		759 × 645 × 180 +539 × 461 × 247		759 × 645 × 180 +539 × 461 × 247		(759 × 645 × 180) × 2		(759 × 645 × 180) × 2 +539 × 461 × 247		(759 × 645 × 180) × 2 +539 × 461 × 247		(759 × 645 × 180) × 2 +539 × 461 × 247		(759 × 645 × 180) × 3					
Net weight	kg		13.0+10.5		13.0+10.5		13.0+13.0		13.0+13.0+10.5		13.0+13.0+10.5		13.0+13.0+10.5		13.0+13.0+10.5					
Gross weight	kg		17.5+13.5		17.5+13.5		17.5+17.5		17.5+17.5+13.5		17.5+17.5+13.5		17.5+17.5+13.5		17.5+17.5+17.5					

Fresh Air Processing Indoor Unit

Model			GMV-NDX125P/A-T		GMV-NDX140P/A-T		GMV-NDX224P/A-T		GMV-NDX250P/A-T		GMV-NDX280P/A-T		GMV-NX450P/A(X4.0)-M	
Capacity	Cooling ¹	kW	12.5		14.0		22.4		25.0		28.0		45.0	
	Heating ²	kW	8.5		10.0		16.0		18.0		20.0		32.0	
	Heating ³	kW	10.5		12.0		20.0		22.0		22.0		35.0	
Power supply	V/Ph/Hz		220-240V~50Hz & 208-230V~60Hz											
Power consumption ⁴	W		200/350		200/350		400/760		520/860		520/860		1240	
ESP ⁵	Pa		150/50~200		150/50~200		200/50~300		200/50~300		200/50~300		200	
Airflow volume (Default/Range) ⁶	m³/h		1200/1000~2000		1200/1000~2000		2000/1500~3000		2500/2000~3500		2500/2000~3500		4000	
Rated current ⁷	Cooling	A	1.5/2.0		1.5/2.0		2.5/4.3		3.1/4.9		3.1/4.9		3.4	
	Heating	A	1.5/2.0		1.5/2.0		2.5/4.3		3.1/4.9		3.1/4.9		3.4	
Sound pressure level (Default/Range) ⁸	dB(A)		46/40~50		46/40~50		45/45~54		47/47~54		47/47~54		58	
Connecting pipe	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 (W × D × H)	Outline	mm	1400 × 700 × 300		1400 × 700 × 300		1483 × 791 × 385		1483 × 791 × 385		1483 × 791 × 385		1700 × 1100 × 650	
	Package	mm	1601 × 813 × 365		1601 × 813 × 365		1578 × 883 × 472		1578 × 883 × 472		1578 × 883 × 472		1893 × 1463 × 838	
Net weight/Gross weight	kg		54/61		54/61		82/104		82/104		82/104		208/266	
Loading quantity	40' GP	unit	84		84		52		52		52		16	
	40' HQ	unit	98		98		65		65		65		16	

Note:

- Rated cooling capacity test conditions: Indoor 35°C DB/28°C WB, outdoor 35°C DB.
- Rated heating capacity test conditions: Indoor 7°C DB, outdoor 7°C DB/6°C WB.
- Rated heating capacity test conditions: Indoor -7°C DB, outdoor 0°C DB/-2.9°C WB.
- As for power consumption column, the left side of "/" is the rated power, and the right side is the max. power.
- External static pressure: the left side of "/" is the static pressure of a standard unit while the right side is the static pressure option of a non-standard unit.
- Air volume: the left side of "/" is the rated air volume while the right side is the adjustable fresh air volume.
- Input current: the left side of "/" is the rated current while the right side is the maximum current.
- As to noise: the left side of "/" is the noise value under rated static pressure while the right side is the noise range with the change of static pressure.

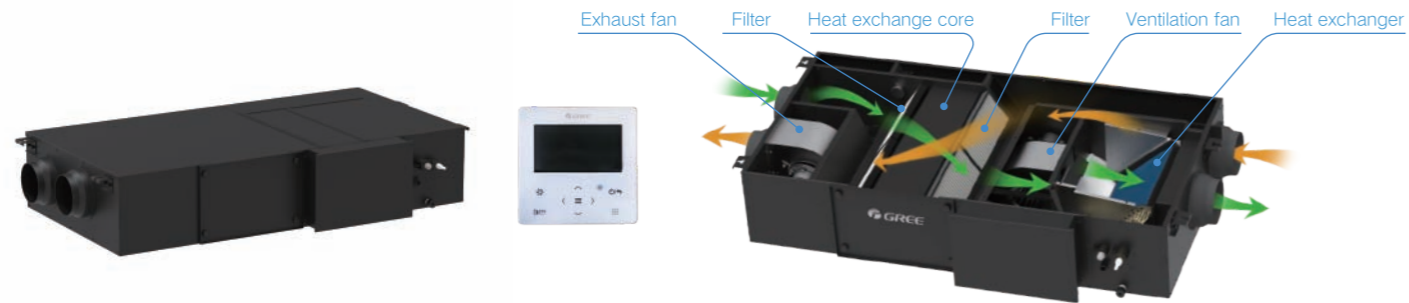


Healthy Product



ERV+DX COIL

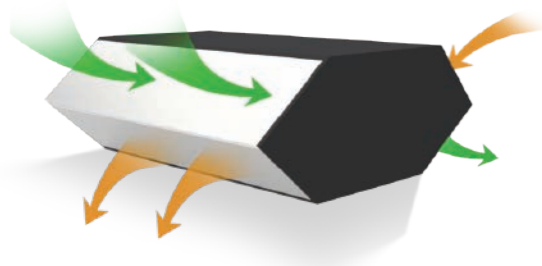
This series are fresh air units with evaporators, which means they have total heat exchangers and evaporators. When it's used with outdoor units, it can deliver fresh air without increasing the indoor load. They have multiple operation modes and are widely applicable.



- Memory function
- °C/°F switch
- Easier maintenance
- Centralized control
- Weekly timer
- Child lock

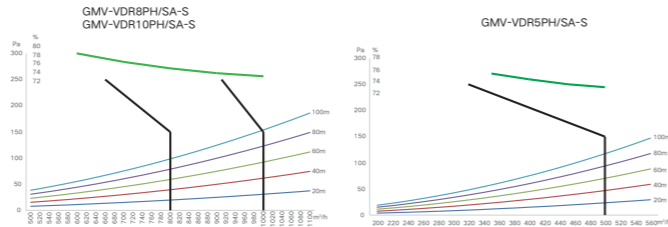
High-efficiency HR module

They are built with heat exchange chips for efficient energy recovery on the air discharge side. When they are in use, other air conditioning equipment will consume less power.



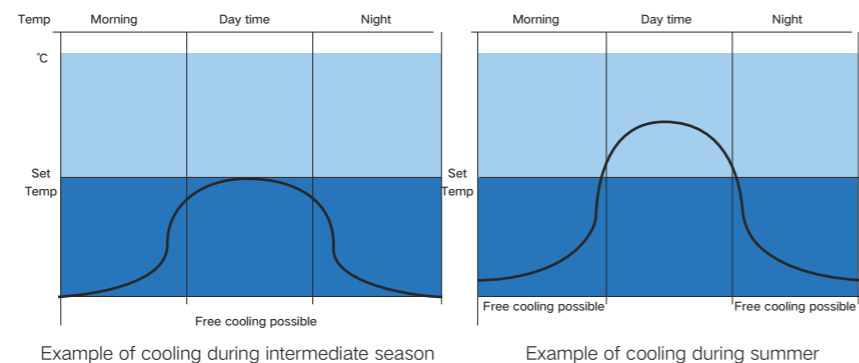
Constant air volume

Units adopt constant air volume control technology so that they can maintain constant air volume within a specific range of pipeline resistance.



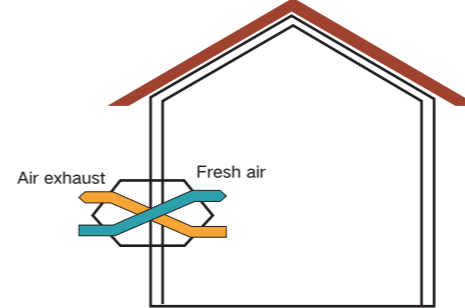
Free cooling

When outdoor temperature is lower than the set temperature, units can automatically introduce the fresh outdoor air to make the room cooler. In transition season, free cooling can always be valid; under large temperature difference of day and night in summer, the free cooling mode can also be activated to cool down the indoor temperature.



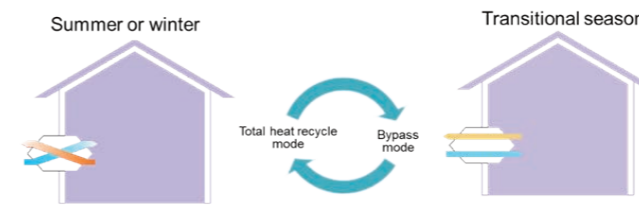
Multiple air supply modes

Positive pressure air supply: Different air flow volume can be set for the fresh air side and air discharge side to keep the indoor side under minor positive pressure, which will help guarantee room cleanliness; **Negative pressure air supply:** Different air flow volume can be set for the fresh air side and air discharge side to keep the indoor side under minor negative pressure, which will help prevent leakage of indoor pollutants. **Balanced air supply:** The fresh air side and air discharge side can be set with the same air flow volume (default).



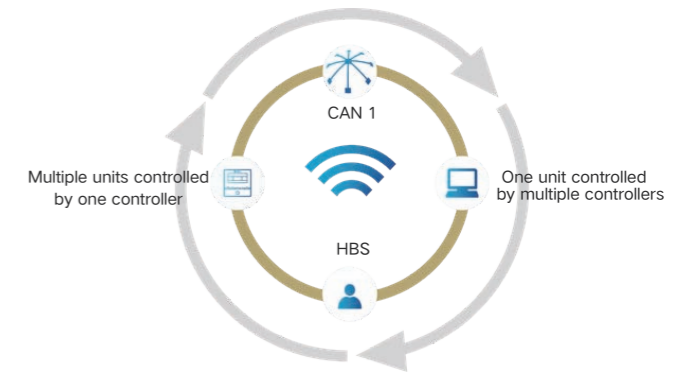
Multiple operation modes

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



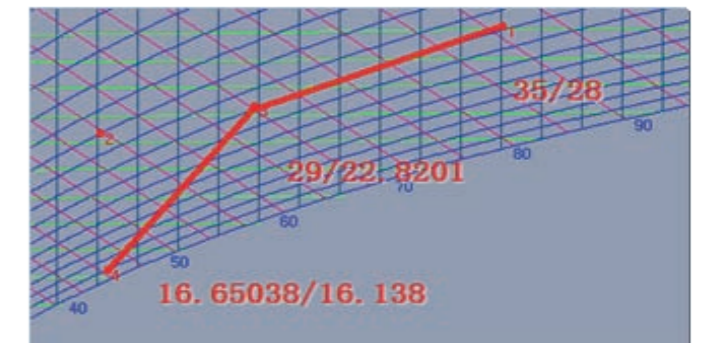
Linked control

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



Cooling and heating functions

With fan coils, they have cooling and heating functions like common air conditioners. For example: Under the condition of 35°C (RH60%) for outdoor temperature, 27°C (RH50%) for indoor temperature and 73% of heat exchanger efficiency, when the fresh air passes through the core heat exchange, and it reaches about 29°C, and then the fresh air is further cooled down and dehumidified by the evaporator, so that the fresh air reaches the appropriate temperature and then sent into the room.

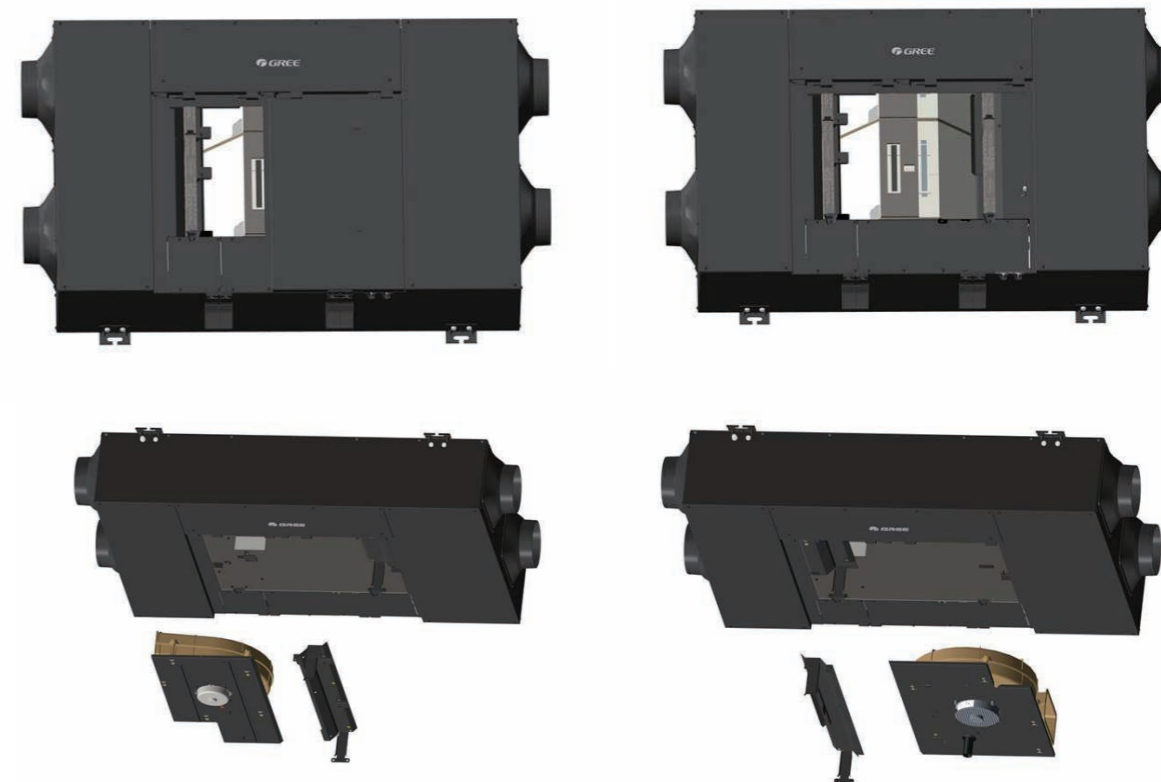
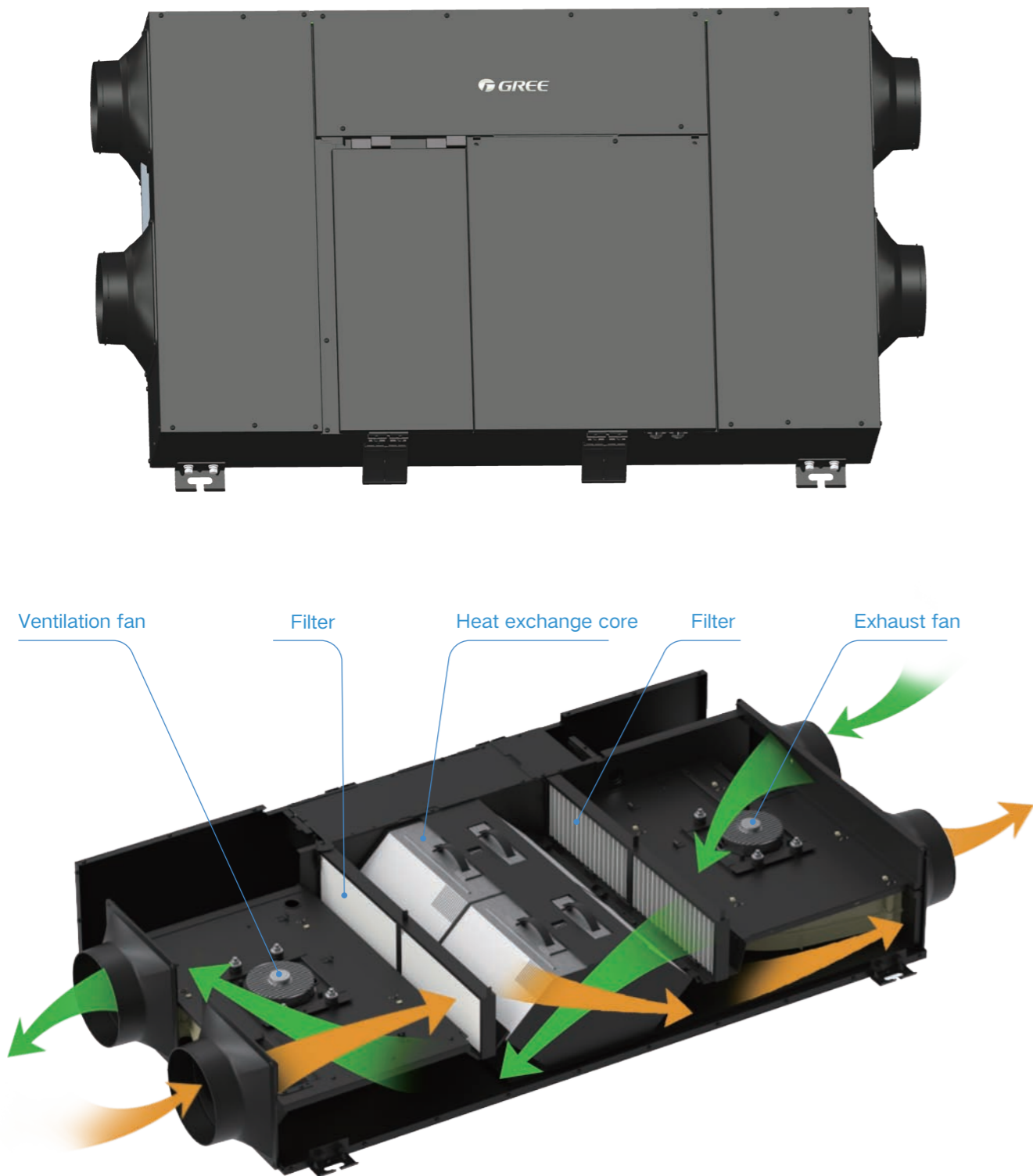


Model		GMV-VDR5PH/SA-S	GMV-VDR8PH/SA-S	GMV-VDR10PH/SA-S		
Rated voltage	V	220-240				
Rated frequency	Hz	50/60				
Cooling capacity	kW	8.5	12.0	14.5		
Heating capacity	kW	4.0	10.6	12.0		
Power input	kW	0.27	0.44	0.64		
Current input	A	1.65	2.73	3.86		
Indoor unit	Airflow volume	CFM	294	471	589	
		m³/h	500	800	1000	
	ESP	Rated	Pa	150	150	
	Thermal exchange efficiency	%	73	74	73	
	Sound power level	dB	55	59	62	
	Dimension (W × D × H)	Outline	mm	1700 × 880 × 340	1800 × 1185 × 390	1800 × 1185 × 390
		Package	mm	1988 × 1138 × 535	2110 × 1440 × 567	2110 × 1440 × 567
Net weight/Gross weight	kg	120/175	158/225	158/225		
Ventiduct	Outer diameter	mm	200	250	250	
Loading quantity	20' GP/40' GP/40' HQ	unit	20/44/44	16/32/32	16/32/32	
Standard wired controller			XE70-33/H			

ERV unit is an air terminal treatment equipment that can purify outdoor fresh air and exchange energy with indoor exhaust air. The unit consists of filter, total heat exchanger and fan. In the total heat exchanger, outdoor fresh air and indoor exhaust air exchange heat and moisture through counter-flow heat exchange, effectively reduce the load of fresh air, and finally send it into the room through specially optimized high static pressure fan.

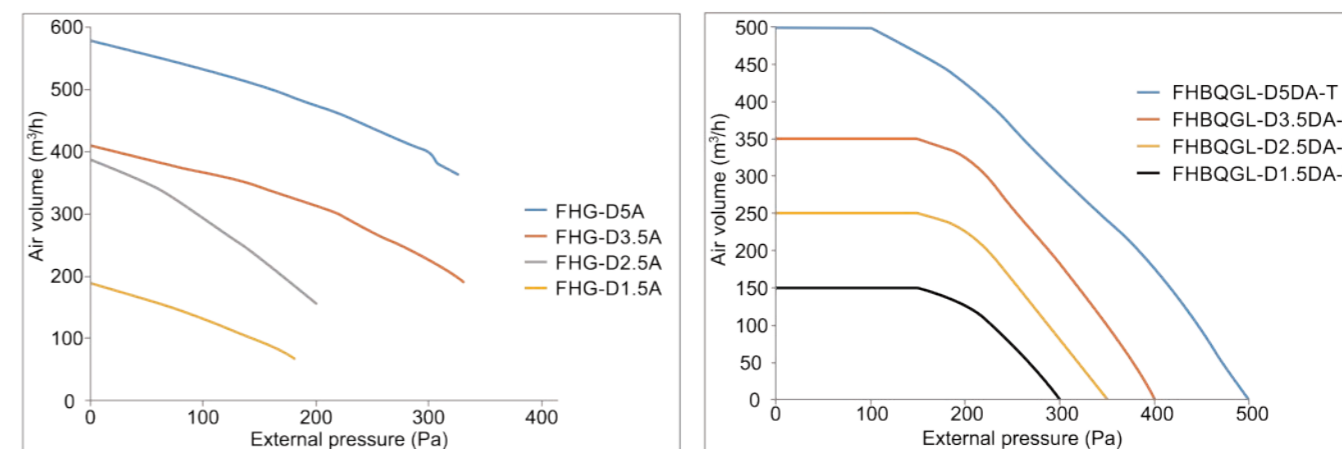
Ultra-thin Body, Convenient Maintenance

Thickness of the unit is 220mm/240mm, the ultra-thin body design meets the requirement that the unit can be installed on a ceiling in a narrow space; the unit adopts lower maintenance port, which is convenient for unit maintenance.



Constant Air Volume Control Technology

The unit adopts brushless DC motor stepless speed regulation and constant air volume control technology. Within a certain range of external static pressure, the unit judges through independent operation to keep the fresh air volume output constant.

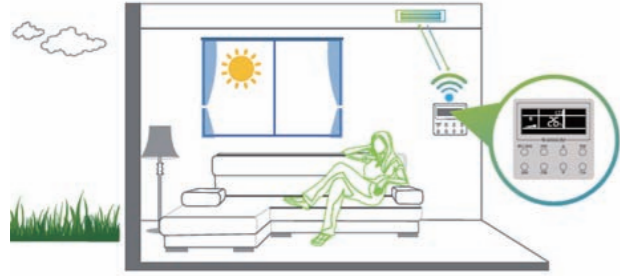


Multiple Control Methods

The unit can realize linkage control with multi VRF indoor unit (It needs to connect multi VRF system for this function).

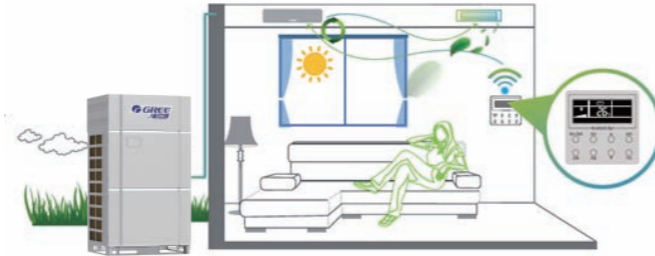
> Manual Control

By using the standard wired controller, users can manually control the start and stop of fresh air unit.



> Linkage Control

After connecting the fresh air unit to Gree multi VRF indoor unit through communication wire, set the wired controller of fresh air unit to linkage control mode. When the multi VRF air conditioning system is turned on, the fresh air unit automatically turns on to purify the indoor air; when the multi VRF air conditioning system is turned off, the fresh air unit automatically turns off, worry-free and energy-saving.



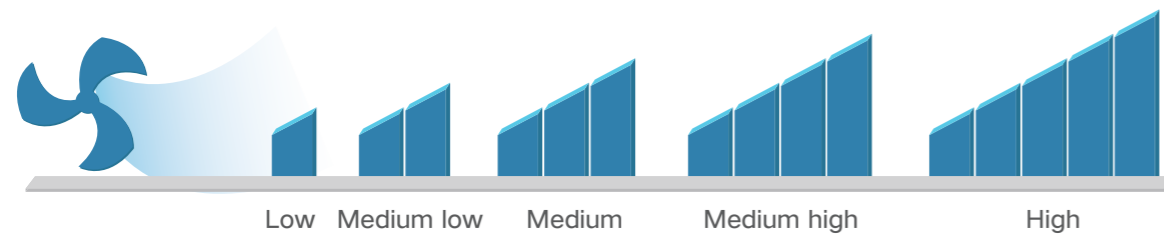
Two-way Flow Heat Recovery

The unit sends outdoor fresh air into the room, and at the same time exhausts the indoor dirty air. The fresh air flow and the exhaust air flow conduct counter-flow heat exchange inside the total heat exchanger to efficiently recover the exhaust energy, reduce the fresh air load, and save energy.



Multi-step Air Volume Control

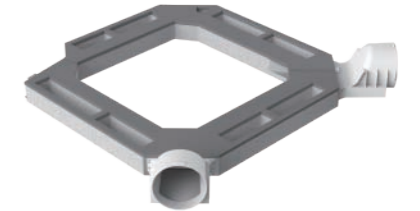
The unit has five-step air speed for adjustment to meet the fresh air requirements of different houses and different piping sizes.



Model		FHBQGL-D1.5DA-T	FHBQGL-D2.5DA-T	FHBQGL-D3.5DA-T	FHBQGL-D5DA-T	
Air flow volume	m ³ /h	150	250	350	500	
ESP	Pa	100	100	100	100	
Temperature exchange efficiency	%	80	75	76	73	
Power supply	V/Ph/Hz	208-230/1/60 220-240/1/50	208-230/1/60 220-240/1/50	208-230/1/60 220-240/1/50	208-230/1/60 220-240/1/50	
Power input	kW	0.050	0.105	0.155	0.250	
Sound power level	dB(A)	43	50	55	57	
Dimension (W × D × H)	Outline	mm	1160 × 700 × 220	1160 × 700 × 220	1200 × 785 × 240	1385 × 785 × 240
	Package	mm	1468 × 873 × 285	1468 × 873 × 285	1528 × 973 × 305	1711 × 973 × 305
Net weight/Gross weight	kg	50/58.5	50/58.5	60/70.5	71.5/82.5	
Loading quantity	40' GP/40' HQ	unit	172/195	172/195	121/140	117/131
SEC class	-	-	A	B	-	-

Fresh Air Accessories

- 8% ~ 10% of outdoor fresh air can be effectively introduced.
- All-foam design, light and durable, used with 360° air discharge cassette type indoor unit, simple and convenient to install; double air inlets, using pressure difference principle, can automatically introduce fresh air without a motor, improving indoor air quality.



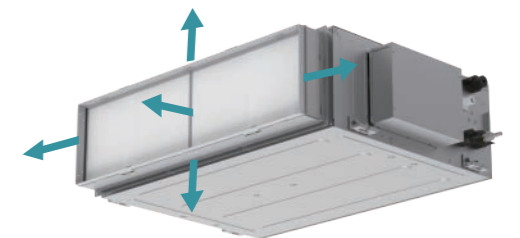
Model		XF150A-T	
Fresh air intake volume	%	10	
Dimension (W × D × H)	Outline	mm	
	Package	mm	
Dimension of the connection	mm	150	
	Pcs	2	
Net weight/Gross weight	kg	2.7/7.7	

Note: This unit should be used with 360° air discharge cassette indoor unit.

High-efficiency Filter

- The high-efficiency filter can effectively remove PM2.5. One pass purification efficiency ≥ 90%.
- Small air resistance and less volume attenuation.
- With 5 disassembly directions for convenient replacement and installation.

Filter model	Applicable for the following high static pressure duct type IDU
FKH01A(H)-T	GMV-ND22-50PHS/D-T
FKH02A(H)-T	GMV-ND56-80PHS/D-T
FKH03A(H)-T	GMV-ND90-180PHS/D-T



Gree Reference Projects PV Project





PROJECT NAME Insurance Company in Puerto Rico



Year: 2019
Product: PV GMV

The project is located in Puerto Rico, located at 66 ° west longitude and 18 ° north latitude. It is a tropical rainforest climate with a peak sunshine hours of 5.62h and the photovoltaic system installed capacity of 12.2kWp.



PROJECT NAME Riyadh Alremal Residential Complex



Year: 2018
Product: PV GMV
Cooling Capacity: 6800kW

Big Residential Area Project, with 568 Villas, Mosques, Schools, Green Open Space, Offices, Roads and Parking Areas.



PROJECT NAME Mohammed Al-Mana College for Medical Sciences



Year: 2018
Building Area: 3000 (m²)
Product: PV GMV
Cooling Capacity: 2700kW

MACHS was established in 2003, it is one of the higher education institutes that specialized in healthcare education and applied vocational training, located in the Eastern Province, Kingdom of Saudi Arabia. MACHS excelled to promote the educational process for various health disciplinarians by following-up with the most advanced and updated programs to establish a distinctive quality standard for health education and its outcomes. Academic collaboration and partnership with both the American University of Beirut and the University of Oregon in the US, which ensures the international standards of MACHS education.



PROJECT NAME PAQSJ Institute of Medical Sciences



Year: 2017
Product: PV GMV
Cooling Capacity: 980RT

PAQSJIMS is a teaching hospital and was rated as a first-class teaching hospital in the medical center by the Ministry of Health. In addition to its three missions as a medical center (providing medical services, teaching and training, and research and development), PAQSJIMS usually provides the best medical services, and its main function during the war is to mobilize and integrate medical resources in different fields.



PROJECT NAME TOSOT Philippines Corporation



Year: 2015
 Building Area: 840 (m²)
 Product: PV GMV
 Cooling Capacity: 100kW

The first showroom of TOSOT, the mile stone of TOSOT brand image establishment in Pilippines.



PROJECT NAME University of Puerto Rico



Year: 2018
 Building Area: 30000ft²
 Product: PV GMV mini

As a public university, the University of Puerto Rico has been offering post-high school education in various fields since 1903. There are 11 campuses throughout the island of Puerto Rico. Each campus is accredited by the Middle States Association of Colleges and Schools, which means the university of Puerto Rico's degrees are accredited by U.S. graduate schools. The project has been refurbished to the east wing of the school building, which has four floors. It is currently being refurbished next to the school building. After completion, it will continue to renovate other campuses. UPR has a total of nine campuses.



PROJECT NAME San Francisco Agricultural Project



Year: 2018
 Building Area: 8000 (m²)
 Product: PV GMV

The project is a farm located in San Francisco. With Gree photovoltaic VRF, the farm can supply the electricity power with solar energy, which is more efficient and environment friendly.



PROJECT NAME Etqan Hotel



Year: 2017
 Building Area: 2000 (m²)
 Product: PV GMV

The company activity is mainly included in the trade in electronic and electrical appliances, Biomedical Equipments, Electronic Security Systems, Watches & parts, Tapes, Batteries, and others procured from global reputed suppliers on exclusive agency representation in the kingdom of Saudi Arabia. The company is employing now around 1000 employee, technician and specialist. The company is being managed from its head office in Al Khobar, while it has several branches in the various regions of the Kingdom, mainly 5 branches and after sale service centers in the Eastern Region.

Note



A series of 20 horizontal grey lines spaced evenly down the page, providing a template for writing notes.

Note



A series of 20 horizontal grey lines spaced evenly down the page, providing a template for writing notes.