



GREE ELECTRIC APPLIANCES, INC. OF ZHUHAI

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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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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 air conditioners, home appliances, high-end equipment and communication equipment under three brand names: GREE, KINGHOME and TOSOT. Gree was the number one brand of air conditioners in the world in 2021*.

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.
2022: Gree has ranked the 487th on the list of Fortune Global 500.

Thanks to 500 million users' choices, Gree brands are sold widely to more than 180 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 was the number one brand of air conditioners in the world in 2021
Footnote:“Source Euromonitor International Limited; Consumer appliances 2022ed; retail volume sales in units, 2021 data.”

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SOME PARTS



Golden fin condenser
Anti-corrosive performance of golden fin is 3 times better than normal fin.



Inner groove copper
Special thickened inner groove copper tube enhances heat exchanging performance.



Built-in drain pump
The drain pump can pump the condensation to a high level. It facilitates condensation draining from the indoor unit and makes the installation of indoor unit easier.



Washable filter
Filters are easy to dismantle and install. You can use dirt collector or water to clear away the dust.



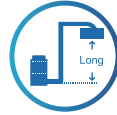
Quality motor
Quality motor makes operation steady and in low noise.



Auxiliary electric heater
Auxiliary heater greatly improves heating capacity and saves energy.



Slave and master wired controller
One indoor unit can be connected with two wired controllers to realize controlling of the same indoor unit from different control points.



Long connection pipe design
The total length of connection pipe reaches 1000m, which greatly improves the project flexibility of the unit.

COMFORTABLE & HEALTHY



Vertical swing
Air discharge flaps can move vertically for efficient air and temperature distribution throughout the room.



Horizontal swing
Air discharge louver can move horizontally for efficient air and temperature distribution throughout the room.



Anti-cold function
The indoor unit will not blow in the winter if the air is not warm enough.



Turbo function
To run with strong power and make you feel comfortable(cool or warm) quickly.



Fresh air supply ventilation
The unit can introduce a certain percentage of fresh air to satisfy the fresh air requirement.



Comfortable sleeping mode
The setting temperature and the indoor noise can be adjusted to a more comfortable level when you set the "sleeping mode".



Quiet function
Unit is ensured to operate with the lowest noise by ultra-low fan speed and auto adjustment according to system parameter.

HIGH EFFICIENCY & ENERGY SAVING



High efficiency
The air conditioner is designed to high energy efficiency and to realize power saving.



Intelligent defrosting
It performs defrosting intelligently when necessary, thus improving heating efficiency and saving energy.



Energy saving function
When this function is activated, the temperature setting is only in limited range, so as to save energy.



All DC inverter technology
All motors adopt DC inverter technology, which greatly improves energy efficiency.

CONVENIENCE



Memory function
Unit is able to remember the operations before power failure and automatically returns to those operations when power restored.



Compact design
Unit is designed with smaller dimension, which is easy to install and transport, and saves the cost.



Easier maintainability
The unit is designed to be easier for maintenance and component replacement.



Auto addressing technology
The new generation of indoor unit applies auto addressing technology, which greatly reduces project debugging time and error rate.

RELIABILITY



Auto clean
After turning off unit, the indoor fan will keep running in low speed for a moment to dry the inner components and parts, in order to prevent mildew and keep users healthy.



Self-diagnosis
Malfunction codes are shown on the display panel for fast and easy maintenance when any problem occurs.



Low voltage startup
Unit is able to safely start when voltage is below standard.



Low temperature heating
Unit is able to start and operate in normal when the ambient temperature is lower than -20°C and heating capacity remains still.



Modular operating
Several units can operate together as modules, so that capacity output control is more precise, and also higher reliability.



Comprehensive protection
The unit is designed with various of protection functions to ensure the reliability.

VERSATILITY



High ESP
The external static pressure range is higher, which ensures longer delivery distance for air to provide powerful cooling.



Wide voltage range
The unit can operate in a wide range of voltage, greatly reducing the impact of voltage fluctuation.



Wide operation range
Unit can operate in wide range, greatly reducing the ambient temperature limitation.



Multi fan speed
The fan can operate with multi speeds and satisfy different air flow volume requirement.



Modular structure
High efficiency compressor presents reliable performance.

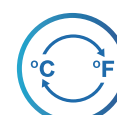
CONTROLLER



24 hour timer
Unit can be set to turn on or turn off at anytime in a day.(The timing interval is 5-minute.)



Weekly timer
Unit can be set to start heating or cooling anytime on a daily or weekly basis.



°C/°F switch
Under status of unit off, press MODE and " - " buttons simultaneity to switch °C / °F.



Clock display
Time is shown on remote controller .



Key-card control
The key-card control function is specially designed for the hotel rooms. By removing the key-card, the air conditioner can be automatically switched to stand-by status.



Floor heating debugging



Centralized control
Start, stop and regulate the air conditioner from a distance.



Long-distance monitoring
Long-distance monitoring enables the unit to be controlled and monitored from a long distance.



Shield function
Remote control the indoor unit and shield the functions of wired controller which include ON/OFF, temp or mode setting, energy-saving function, etc.



Child lock
It avoids child' s wrong operation on the remote controller.



Human engineering operation
Adopts the technologies of auto addressing, non-polar communication and auto debugging, which improves project efficiency.

GMV6

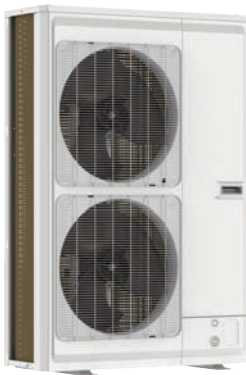
Ultra Heat GMV6 Mini
Ultra Heat GMV6 HR
GMV6 HR



Ultra Heat GMV6 Mini



Gree's new generation Ultra Heat GMV6 Mini unit adopts advanced enthalpy-adding system and high-efficiency subcooling design, etc., with excellent performance in low ambient temperature. This product series has a capacity range from 36kbtu/h to 60kbtu/h, which can operate reliably in an ultra-wide operation range from -30°Cto 54°C. It provides users with a comfortable environment, which can be widely used in commercial and work areas and residences, etc.



All DC inverter technology

Energy saving function

High efficiency

Wide operation range

Long connection pipe design

Reliable cooling at low ambient temperature

Reliable heating at low ambient temperature

User-friendly design

Stable and reliable operation

High-efficiency compressor

Intelligent defrosting control

Communication technology

Centralized control

- New efficient enthalpy-enhanced system design.
- Reliable cooling at low ambient temperature of -18°C.
- Heating at low ambient temperature of -20°C without attenuation (applicable to some models).
- Reliable heating at low ambient temperature of -30°C.
- Complied with the requirements of the latest AHRI energy efficiency certification and Energy Star low temperature product certification.



Max. piping length (m(ft.))	Ultra Heat GMV6 Mini
Total piping length	300m(984ft)
Actual piping length	120m(394ft)
Equivalent piping length	150m(492ft)
Height difference between ODU and IDU (ODU is located above the IDU)	50m(164ft)
Height difference between ODU and IDU (IDU is located above the ODU)	40m(131ft)
Piping length from first indoor branch to the farthest IDU	40m(131ft)

Item	Nominal operating condition (temperature)				Operation range (temperature)
	Outdoor condition		Indoor condition		Outdoor condition
	DB(°F/°C)	WB(°F/°C)	DB(°F/°C)	WB(°F/°C)	DB(°F/°C)
Cooling	95/35	75/23.9	80/26.7	67/19.4	50*~129/-5*~54
Heating	47/8.3	43/6.1	70/21.1	60/15.6	-22~81/-30~27

Note: Please consult our technical personnel if the ambient temperature for cooling operation is below -5°C (50 ° F) .

Specifications

Model			GMV-V36WL/C-T(U)*	GMV-V48WL/C-T(U)*	GMV-V60WL/C-T(U)*
Capacity range		Ton	3	4	5
Capacity	Cooling	Btu/h	36,000	48,000	60,000
	Heating	Btu/h	36,000	48,000	60,000
Air flow volume		CFM	3531	3708	3780
Power supply		V/Ph/Hz	208/230/1/60		
MCA		A	37	37	45
MOP		A	50	50	60
Maximum drive IDU NO.		unit	7	8	10
Refrigerant charge volume		lbs	11	11	14.3
Sound pressure level		dB(A)	55	56	58
Connecting pipe	Liquid	In.	3/8	3/8	3/8
	Gas	In.	5/8	5/8	3/4
Dimension (WxDxH)	Outline	In.	35-3/8 × 13-3/8 × 53	35-3/8 × 13-3/8 × 53	35-3/8 × 13-3/8 × 53
	Package	In.	39-1/4 × 18 × 59-1/16	39-1/4 × 18 × 59-1/16	39-1/4 × 18 × 59-1/16
Net weight/Gross weight		lbs	243/265	243/265	243/265
Loading quantity	40 ' GP	set	57	57	57
	40 ' HQ	set	57	57	57

Remark: As the unit is under developing, the parameter in the table does not mean the final status.



Ultra Heat GMV6 HR

Ultra Heat GMV6 HR can realize cooling, heating at the same time. The units adopts multiple leading technologies such as all new high efficiency enthalpy adding system, CAN+ communication technology, energy saving technology and intelligent control technology. In addition, the new generation intelligent management control system and healthy fresh air solution ensures the excellent energy saving, comfort and reliability of the unit. The unit can achieve a wide operation range of -30°C~52°C, which can be applicable to villas, office building, hotels etc.



Integrated heat pump and heat recovery



Low temperature cooling



Low temperature heating



Golden fin condenser



Centralized control



Long-distance monitoring



Comprehensive protection



Long connection pipe design



Energy saving function



High efficiency



Easier maintainability



Quiet function



Modular operating



Wide operation range



Intelligent defrosting



Continuous heating

- The integrated design of heat pump and heat recovery makes it flexible to be designed as a heat pump or a heat recovery system according to the project demands.
- Heating at low ambient temperature of -20°C without attenuation and reliable heating at low ambient temperature of -30°C.
- The indoor units can perform cooling and heating simultaneously.
- Reliable cooling at low ambient temperature of -20°C.
- Continuous heating function is available to further improve the comfort and energy efficiency of the unit.
- High-efficiency enthalpy-enhanced DC inverter compressor and high-efficiency brushless DC motor are adopted.
- Strong low-temperature injection technology and integrated aluminum electric control and high-efficiency radiation design are adopted, achieving operation in wide ambient temperature range from -30°C~52°C.



Max. piping length (m(ft.))	Ultra Heat GMV6 HR
Total piping length	≤1,000(3280-3/4)
Actual piping length	≤165(541-1/4)
Equivalent piping length	≤190(623-1/4)
Height difference between ODU and IDU (ODU is located above the IDU)	≤90(295-1/4)
Height difference between ODU and IDU (IDU is located above the ODU)	≤90(295-1/4)
Piping length from first indoor branch to the farthest IDU	≤40(131-1/4)

Item	Rated operating condition(temperature)				Operation range (temperature)
	Outdoor condition		Indoor condition		Outdoor condition
	DB(°F/°C)	WB(°F/°C)	DB(°F/°C)	WB(°F/°C)	DB(°F/°C)
Cooling	95/35	-	80/26.7	67/19.4	-4~125.6/-20~52
Heating	47/8.3	43/6.1	70/21.1	60/15.6	-22~75/-30~24

Specifications

Model			GMV-VQ72WM/C-F(U)*	GMV-VQ96WM/C-F(U)*	GMV-VQ120WM/C-F(U)*
Capacity range	Ton		6	8	10
Capacity	Cooling	Btu/h	72,000	96,000	120,000
	Heating	Btu/h	81,000	108,000	135,000
Air flow volume	CFM		5738	6179	6532
Power supply	V/Ph/Hz		208/230V 3~60		
MCA	A		53.9	90	91.3
MOP	A		60	100	100
Maximum drive IDU NO.	unit		13	16	19
Refrigerant charge volume	lbs		25.6/409	25.8/413	25.8/413
Sound pressure level	dB(A)		58	60	62
Connecting pipe	Liquid	In.	Φ3/8	Φ3/8	Φ1/2
	Gas(Low pressure)	In.	Φ3/4	Φ7/8	Φ1-1/8
	Gas(High pressure)	In.	Φ5/8	Φ3/4	Φ7/8
Dimension (WxDxH)	Outline	In.	52-3/4 × 30-1/2 × 66-1/2	52-3/4 × 30-1/2 × 66-1/2	52-3/4 × 30-1/2 × 66-1/2
	Package	In.	55-1/8 × 32-5/8 × 73	55-1/8 × 32-5/8 × 73	55-1/8 × 32-5/8 × 73
Net weight/Gross weight	lbs		688/717	794/822	794/822
Loading quantity	40' GP	set	22	22	22
	40' HQ	set	22	22	22

Model			NCHS1D(U)	NCHS2D(U)	NCHS4D(U)	NCHS8D(U)
Max.quantity of connecting IDU for mode exchanger	/		8	16	32	64
Max. branch quantity of connecting IDU	/		1	2	4	8
Max. quantity of connecting IDU for each branch	/		8	8	8	8
Max. capacity of connecting IDU for each branch	Btu/h		54	54	54	54
Total capacity of connecting IDU for each branch	Btu/h		54	96	154	290
Power supply	V/Ph/Hz		208/230~1~60			
Power consumption	W		18	28	32	90
Outdoor unit piping connection	Liquid	In.	Φ3/8	Φ3/8	Φ1/2	Φ5/8
	Gas(Low pressure)	In.	Φ7/8	Φ7/8	Φ1-1/8	Φ1-1/8
	Gas(High pressure)	In.	Φ3/4	Φ3/4	Φ7/8	Φ7/8
Indoor unit piping connection	Liquid	In.	Φ3/8 / Φ1/4	Φ3/8 / Φ1/4	Φ3/8 / Φ1/4	Φ3/8 / Φ1/4
	Gas	In.	Φ5/8 / Φ1/2	Φ5/8 / Φ1/2	Φ5/8 / Φ1/2	Φ5/8 / Φ1/2

Remark: As the unit is under developing, the parameter in the table does not mean the final status.

GMV6 HR

GMV6 HR can realize cooling, heating at the same time. The units adopts multiple leading technologies such as all new high efficiency enthalpy adding system, CAN+ communication technology, energy saving technology and intelligent control technology. In addition, the new generation intelligent management control system and healthy fresh air solution ensures the excellent energy saving, comfort and reliability of the unit. The unit can achieve a wide operation range of -25°C~52°C, which can be applicable to villas, office building, hotels etc.



Integrated heat pump and heat recovery



Low temperature cooling



Low temperature heating



Golden fin condenser



Centralized control



Long-distance monitoring



Comprehensive protection



Long connection pipe design



Energy saving function



High efficiency



Easier maintainability



Quiet function



Modular operating



Wide operation range



Intelligent defrosting



Continuous heating

- The integrated design of heat pump and heat recovery makes it flexible to be designed as a heat pump or a heat recovery system according to the project demands.
- The indoor units can perform cooling and heating simultaneously.
- Reliable cooling at low ambient temperature of -20°C.
- Reliable heating at low ambient temperature of -25°C.
- Continuous heating function is available to further improve the comfort and energy efficiency of the unit.
- High-efficiency enthalpy-enhanced DC inverter compressor and high-efficiency brushless DC motor are adopted.
- Strong low-temperature injection technology and integrated aluminum electric control and high-efficiency radiation design are adopted, achieving operation in wide ambient temperature range from -25°C~52°C.

Max. piping length (m(ft.))	GMV6 HR
Total piping length	≤1,000(3280-3/4)
Actual piping length	≤165(541-1/4)
Equivalent piping length	≤190(623-1/4)
Height difference between ODU and IDU (ODU is located above the IDU)	≤90(295-1/4)
Height difference between ODU and IDU (IDU is located above the ODU)	≤90(295-1/4)
Piping length from first indoor branch to the farthest IDU	≤40(131-1/4)

Item	Rated operating condition(temperature)				Operation range (temperature)
	Outdoor condition		Indoor condition		Outdoor condition
	DB(°F/°C)	WB(°F/°C)	DB(°F/°C)	WB(°F/°C)	DB(°F/°C)
Cooling	95/35	-	80/26.7	67/19.4	-4~125.6/-20~52
Heating	47/8.3	43/6.1	70/21.1	60/15.6	-13~75/-25~24

Specifications

Model			GMV-Q72WM/C-F(U)*	GMV-Q96WM/C-F(U)*	GMV-Q120WM/C-F(U)*
Capacity range	Ton		6	8	10
Capacity	Cooling	Btu/h	72,000	96,000	120,000
	Heating	Btu/h	81,000	108,000	135,000
Air flow volume	CFM		5738	6179	6532
Power supply	V/Ph/Hz		208/230V 3~60		
MCA	A		43.6	51.2	53.9
MOP	A		50	60	60
Maximum drive IDU NO.	unit		13	16	19
Refrigerant charge volume	lbs		21.2/338.7	25.6/409.2	25.6/409.2
Sound pressure level	dB(A)		58	60	62
Connecting pipe	Liquid	In.	Φ 3/8	Φ 3/8	Φ 1/2
	Gas(Low pressure)	In.	Φ 3/4	Φ 7/8	Φ 1-1/8
	Gas(High pressure)	In.	Φ 5/8	Φ 3/4	Φ 7/8
Dimension (WxDxH)	Outline	In.	36-5/8 × 30-1/2 × 66-1/2	52-3/4 × 30-1/2 × 66-1/2	52-3/4 × 30-1/2 × 66-1/2
	Package	In.	39-3/8 × 32-5/8 × 73	55-1/8 × 32-5/8 × 73	55-1/8 × 32-5/8 × 73
Net weight/Gross weight	lbs		565/587	688/717	688/717
Loading quantity	40' GP	set	28	22	22
	40' HQ	set	28	22	22

Model			GMV-Q144WM/C-F(U)*	GMV-Q168WM/C-F(U)*
Capacity range	Ton		12	14
Capacity	Cooling	Btu/h	144,000	168,000
	Heating	Btu/h	162,000	189,000
Air flow volume	CFM		7945	9416
Power supply	V/Ph/Hz		208/230V 3~60	
MCA	A		90	91.3
MOP	A		100	100
Maximum drive IDU NO.	unit		23	29
Refrigerant charge volume	lbs		25.8/412.7	25.8/412.7
Sound pressure level	dB(A)		64	65
Connecting pipe	Liquid	In.	Φ 1/2	Φ 5/8
	Gas(Low pressure)	In.	Φ 1-1/8	Φ 1-1/8
	Gas(High pressure)	In.	Φ 7/8	Φ 7/8
Dimension (WxDxH)	Outline	In.	52-3/4 × 30-1/2 × 66-1/2	52-3/4 × 30-1/2 × 66-1/2
	Package	In.	55-1/8 × 32-5/8 × 73	55-1/8 × 32-5/8 × 73
Net weight/Gross weight	lbs		794/822	794/822
Loading quantity	40' GP	set	22	22
	40' HQ	set	22	22

Model		NCHS1D(U)	NCHS2D(U)	NCHS4D(U)	NCHS8D(U)
Max.quantity of connecting IDU for mode exchanger	/	8	16	32	64
Max. branch quantity of connecting IDU	/	1	2	4	8
Max. quantity of connecting IDU for each branch	/	8	8	8	8
Max. capacity of connecting IDU for each branch	Btu/h	54	54	54	54
Total capacity of connecting IDU for each branch	Btu/h	54	96	154	290
Power supply	V/Ph/Hz	208/230~1~60			
Power consumption	W	18	28	32	90
Outdoor unit piping connection	Liquid	In.	Φ 3/8	Φ 3/8	Φ 1/2
	Gas(Low pressure)	In.	Φ 7/8	Φ 7/8	Φ 1-1/8
	Gas(High pressure)	In.	Φ 3/4	Φ 3/4	Φ 7/8
Indoor unit piping connection	Liquid	In.	Φ 3/8 / Φ 1/4	Φ 3/8 / Φ 1/4	Φ 3/8 / Φ 1/4
	Gas	In.	Φ 5/8 / Φ 1/2	Φ 5/8 / Φ 1/2	Φ 5/8 / Φ 1/2

Remark: As the unit is under developing, the parameter in the table does not mean the final status.

AIR-COOLED GMV5

GMV5

GMV5 Mini

GMV5 Heat Recovery

GMV PTAC VRF



GMV5



Gree GMV5 All DC Inverter VRF adopts high-efficient DC inverter compressor and DC inverter fan motor. The unit can be combined modularly from 6 Ton to 30 Ton.



6 Ton



208/203V: 8/10/12 Ton
460V: 8/10 Ton



14 Ton



All DC inverter technology



Energy saving function



Quiet function



Human engineering operation



High ESP



Wide operation range



Modular operating



Long connection pipe design



Comprehensive protection

- Outdoor unit quiet mode.
- High energy efficiency with a high-performance compressor; long connection pipe design with the maximum length of 3280-3/4 feet.
- Auto switch of module status every 8 hours, which greatly improves the reliability of a complete unit.
- 4 levels of static pressure for option with the maximum of 0.33In.W.G.



Max. piping length (m(ft.))	GMV5
Total piping length	1,000(3280-3/4)
Actual piping length	165(541-1/4)
Equivalent piping length	190(623-1/4)
Height difference between indoor units	30(98-1/2)
Height difference between ODU and IDU (ODU is located above the IDU)	90(295-1/4)
Height difference between ODU and IDU (IDU is located above the ODU)	90(295-1/4)
Piping length from first indoor branch to the farthest IDU	40(131-1/4)

Item	Rated operating condition (temperature)				Operation range (temperature)
	Outdoor condition		Indoor condition		Outdoor condition DB(°F/°C)
	DB(°F/°C)	WB(°F/°C)	DB(°F/°C)	WB(°F/°C)	GMV5
Cooling	95/35	75/23.9	80/26.7	67/19.4	23~125.6/-5~52
Heating	47/8.3	43/6.1	70/21.1	60/15.6	-4~75.2/-20~24

ODU Combination Lineup

208/230V

Model	GMV-72WM/B-F(U) (6Ton)	GMV-96WM/B-F(U) (8Ton)	GMV-120WM/B-F(U) (10Ton)	GMV-144WM/B1-F(U) (12Ton)	GMV-168WM/B1-F(U) (14Ton)
GMV-72WM/B-F(U) (6Ton)	●				
GMV-96WM/B-F(U) (8Ton)		●			
GMV-120WM/B-F(U) (10Ton)			●		
GMV-144WM/B1-F(U) (12Ton)				●	
GMV-168WM/B1-F(U) (14Ton)					●
GMV-144WM/B-F(U) (12Ton)	● ●				
GMV-168WM/B-F(U) (14Ton)	●	●			
GMV-192WM/B-F(U) (16Ton)		● ●			
GMV-216WM/B-F(U) (18Ton)		●	●		
GMV-240WM/B-F(U) (20Ton)			● ●		
GMV-264WM/B-F(U) (22Ton)	●	● ●			
GMV-288WM/B-F(U) (24Ton)		● ● ●			
GMV-312WM/B-F(U) (26Ton)		● ●	●		
GMV-336WM/B-F(U) (28Ton)		●	● ●		
GMV-360WM/B-F(U) (30Ton)			● ● ●		

460V

Model	GMV-72WM/B-U(U) (6Ton)	GMV-96WM/B-U(U) (8Ton)	GMV-120WM/B-U(U) (10Ton)
GMV-72WM/B-U(U) (6Ton)	●		
GMV-96WM/B-U(U) (8Ton)		●	
GMV-120WM/B-U(U) (10Ton)			●
GMV-144WM/B-U(U) (12Ton)	● ●		
GMV-168WM/B-U(U) (14Ton)	●	●	
GMV-192WM/B-U(U) (16Ton)		● ●	
GMV-216WM/B-U(U) (18Ton)		●	●
GMV-240WM/B-U(U) (20Ton)			● ●
GMV-264WM/B-U(U) (22Ton)	●	● ●	
GMV-288WM/B-U(U) (24Ton)		● ● ●	
GMV-312WM/B-U(U) (26Ton)		● ●	●
GMV-336WM/B-U(U) (28Ton)		●	● ●
GMV-360WM/B-U(U) (30Ton)			● ● ●

Specifications

208/230V

Model			GMV-72WM/B-F(U)	GMV-96WM/B-F(U)	GMV-120WM/B-F(U)	GMV-144WM/B1-F(U)	GMV-168WM/B1-F(U)
Capacity range		Ton	6	8	10	12	14
Rated capacity*	Cooling	Btu/h	69,000	92,000	114,000	138,000	150,000
	Heating	Btu/h	77,000	103,000	129,000	154,000	180,000
Air flow volume		CFM	6710	8240	8240	8240	9420
Power supply		V/Ph/Hz	208/230~3~60				
MCA		A	31	37	50	55	57
MOP		A	35	45	60	70	70
Maximum drive IDU NO.		unit	13	16	19	23	29
Refrigerant charge volume		lbs	14.33	24.91	25.79	25.79	25.79
Sound pressure level		dB(A)	60	61	63	64	65
Connecting pipe	Liquid	In.	Φ3/8	Φ3/8	Φ1/2	Φ1/2	Φ5/8
	Gas	In.	Φ3/4	Φ7/8	Φ1-1/8	Φ1-1/8	Φ1-1/8
	Oil balance	In.	Φ3/8	Φ3/8	Φ3/8	Φ3/8	Φ3/8
	Outline	In.	36-5/8 × 30-1/8 × 63-1/4	52-3/4 × 30-1/8 × 63-1/4	52-3/4 × 30-1/8 × 63-1/4	52-3/4 × 30-1/8 × 63-1/4	52-3/4 × 30-1/8 × 68-1/2
Dimension (W × D × H)	Package	In.	39-3/4 × 33-1/8 × 69-7/8	55-7/8 × 33-1/8 × 69-7/8	55-7/8 × 33-1/8 × 69-7/8	55-7/8 × 33-1/8 × 69-7/8	55-7/8 × 33-1/8 × 75-1/4
		lbs	496/518	662/695	794/827	794/827	849/882
Net weight/Gross weight							
Loading quantity	40' GP	set	28	22	22	22	22
	40' HQ	set	28	22	22	22	22

*Note: Rated capacity is certified under AHRI Standard 1230. Ratings are subject to change without notice. Current certified ratings are available at www.ahridirectory.org.

460V

Model			GMV-72WM/B-U(U)	GMV-96WM/B-U(U)	GMV-120WM/B-U(U)
Capacity range		Ton	6	8	10
Rated capacity*	Cooling	Btu/h	69,000	92,000	114,000
	Heating	Btu/h	77,000	103,000	129,000
Air flow volume		CFM	6710	8240	8240
Power supply		V/Ph/Hz	460~3~60		
MCA		A	15	18	25
MOP		A	20	25	30
Maximum drive IDU NO.		unit	13	16	19
Refrigerant charge volume		lbs	14.33	24.91	25.79
Sound pressure level		dB(A)	60	61	63
Connecting pipe	Liquid	In.	Φ3/8	Φ3/8	Φ1/2
	Gas	In.	Φ3/4	Φ7/8	Φ1-1/8
	Oil balance	In.	Φ3/8	Φ3/8	Φ3/8
Dimension(W × D × H)	Outline	In.	36-5/8 × 30-1/8 × 63-1/4	52-3/4 × 30-1/8 × 63-1/4	52-3/4 × 30-1/8 × 63-1/4
	Package	In.	39-3/4 × 33-1/8 × 69-7/8	55-7/8 × 33-1/8 × 69-7/8	55-7/8 × 33-1/8 × 69-7/8
Net weight/Gross weight		lbs	503/524	672/705	794/827
Loading quantity	40' GP	set	28	22	22
	40' HQ	set	28	22	22

*Note: Rated capacity is certified under AHRI Standard 1230. Ratings are subject to change without notice. Current certified ratings are available at www.ahridirectory.org.

Specifications of ODU Combination

208/230V

Model	Power supply	Rated capacity*		Dimension(W × D × H)	Airflow volume	ESP	Sound pressure level	Operation sound pressure level at night	Connecting pipe		Oil balance pipe	MCA	MOP	Weight
		Cooling	Heating						Liquid	Gas				
		Btu/h	Btu/h	In.	CFM	In.W.G	dB(A)	dB(A)	In.	In.	In.	A	A	Lbs
GMV-144WM/B-F(U)	208/230-3-60	138,000	154,000	(36-5/8 × 30-1/8 × 63-1/4) × 2	6710 × 2	0.33	62	48	Φ1/2	Φ1-1/8	Φ3/8	31+31	35+35	496 × 2
GMV-168WM/B-F(U)		160,000	180,000	(36-5/8 × 30-1/8 × 63-1/4) + (52-3/4 × 30-1/8 × 63-1/4)	6710+8240	0.33	63	48	Φ5/8	Φ1-1/8	Φ3/8	31+37	35+45	496+662
GMV-192WM/B-F(U)		184,000	206,000	(52-3/4 × 30-1/8 × 63-1/4) × 2	8240 × 2	0.33	63	48	Φ5/8	Φ1-1/8	Φ3/8	37+37	45+45	662 × 2
GMV-216WM/B-F(U)		206,000	230,000	(52-3/4 × 30-1/8 × 63-1/4) × 2	8240 × 2	0.33	65	48	Φ5/8	Φ1-1/8	Φ3/8	37+50	45+60	662+794
GMV-240WM/B-F(U)		228,000	256,000	(52-3/4 × 30-1/8 × 63-1/4) × 2	8240 × 2	0.33	65	48	Φ5/8	Φ1-3/8	Φ3/8	50+50	60+60	794 × 2
GMV-264WM/B-F(U)		250,000	282,000	(36-5/8 × 30-1/8 × 63-1/4) + (52-3/4 × 30-1/8 × 63-1/4) × 2	6710+8240 × 2	0.33	65	48	Φ3/4	Φ1-3/8	Φ3/8	31+37+37	35+45+45	496+662 × 2
GMV-288WM/B-F(U)		274,000	308,000	(52-3/4 × 30-1/8 × 63-1/4) × 3	8240 × 3	0.33	65	48	Φ3/4	Φ1-3/8	Φ3/8	37+37+37	45+45+45	662 × 3
GMV-312WM/B-F(U)		296,000	334,000	(52-3/4 × 30-1/8 × 63-1/4) × 3	8240 × 3	0.33	66	48	Φ3/4	Φ1-3/8	Φ3/8	37+37+50	45+45+60	662 × 2+794
GMV-336WM/B-F(U)		320,000	360,000	(52-3/4 × 30-1/8 × 63-1/4) × 3	8240 × 3	0.33	67	48	Φ3/4	Φ1-3/8	Φ3/8	37+50+50	45+60+60	662+794 × 2
GMV-360WM/B-F(U)		342,000	384,000	(52-3/4 × 30-1/8 × 63-1/4) × 3	8240 × 3	0.33	67	48	Φ3/4	Φ1-5/8	Φ3/8	50+50+50	60+60+60	794 × 3

*Note: Rated capacity is certified under AHRI Standard 1230. Ratings are subject to change without notice. Current certified ratings are available at www.ahridirectory.org.

460V

Model	Power supply	Rated capacity*		Dimension(W × D × H)	Airflow volume	ESP	Sound pressure level	Operation sound pressure level at night	Connecting pipe		Oil balance pipe	MCA	MOP	Weight
		Cooling	Heating						Liquid	Gas				
		Btu/h	Btu/h	In.	CFM	In.W.G	dB(A)	dB(A)	In.	In.	In.	A	A	Lbs
GMV-144WM/B-U(U)	460~3~60	138,000	154,000	(36-5/8 × 30-1/8 × 63-1/4) × 2	6710 × 2	0.33	62	48	Φ1/2	Φ1-1/8	Φ3/8	15+15	20+20	503 × 2
GMV-168WM/B-U(U)		160,000	180,000	(36-5/8 × 30-1/8 × 63-1/4) + (52-3/4 × 30-1/8 × 63-1/4)	6710+8240	0.33	63	48	Φ5/8	Φ1-1/8	Φ3/8	15+18	20+25	503+672
GMV-192WM/B-U(U)		184,000	206,000	(52-3/4 × 30-1/8 × 63-1/4) × 2	8240 × 2	0.33	63	48	Φ5/8	Φ1-1/8	Φ3/8	18+18	25+25	672 × 2
GMV-216WM/B-U(U)		206,000	230,000	(52-3/4 × 30-1/8 × 63-1/4) × 2	8240 × 2	0.33	65	48	Φ5/8	Φ1-1/8	Φ3/8	18+25	25+30	672+794
GMV-240WM/B-U(U)		228,000	256,000	(52-3/4 × 30-1/8 × 63-1/4) × 2	8240 × 2	0.33	65	48	Φ5/8	Φ1-3/8	Φ3/8	25+25	30+30	794 × 2
GMV-264WM/B-U(U)		250,000	282,000	(36-5/8 × 30-1/8 × 63-1/4) + (52-3/4 × 30-1/8 × 63-1/4) × 2	6710+8240 × 2	0.33	65	48	Φ3/4	Φ1-3/8	Φ3/8	15+18+18	20+25+25	503+672 × 2
GMV-288WM/B-U(U)		274,000	308,000	(52-3/4 × 30-1/8 × 63-1/4) × 3	8240 × 3	0.33	65	48	Φ3/4	Φ1-3/8	Φ3/8	18+18+18	25+25+25	672 × 3
GMV-312WM/B-U(U)		296,000	334,000	(52-3/4 × 30-1/8 × 63-1/4) × 3	8240 × 3	0.33	66	48	Φ3/4	Φ1-3/8	Φ3/8	18+18+25	25+25+30	672 × 2+794
GMV-336WM/B-U(U)		320,000	360,000	(52-3/4 × 30-1/8 × 63-1/4) × 3	8240 × 3	0.33	67	48	Φ3/4	Φ1-3/8	Φ3/8	18+25+25	25+30+30	672+794 × 2
GMV-360WM/B-U(U)		342,000	384,000	(52-3/4 × 30-1/8 × 63-1/4) × 3	8240 × 3	0.33	67	48	Φ3/4	Φ1-5/8	Φ3/8	25+25+25	30+30+30	794 × 3

*Note: Rated capacity is certified under AHRI Standard 1230. Ratings are subject to change without notice. Current certified ratings are available at www.ahridirectory.org.

GMV5 Mini

Gree GMV5 mini All DC Inverter VRF adopts a high-efficient DC inverter compressor and DC inverter fan motor. The unit can be combined modularly from 2 tons to 5 tons.



All DC inverter technology

Energy saving function

Quiet function

Human engineering operation

Wide operation range

Modular operating

Long connection pipe design

Comprehensive protection

- Outdoor unit quiet mode.
- High energy efficiency with a high-performance compressor; long connection pipe design with the a maximum length of 300(984)feet.
- Auto switch of module status every 8 hours, which greatly improves the reliability of a complete unit.



Max. piping length (m(ft.))	GMV5 Mini(2/2.5Ton)	GMV5 Mini(3/4/5Ton)
Total piping length	250(820)	300(984)
Actual length of the farthest fitting pipe	100(328)	120(394)
Equivalent length of the farthest fitting pipe	120(394)	150(492)
Height difference between indoor units	10(33)	15(49)
Height difference between ODU and IDU (ODU is located above the IDU)	30(98)	50(164)
Height difference between ODU and IDU (IDU is located above the ODU)	30(98)	40(131)
Piping length from first indoor branch to the farthest IDU	40(131)	40(131)

Item	Nominal operating condition (temperature)				Operation range (temperature)
	Outdoor condition		Indoor condition		Outdoor condition DB(°F/°C)
	DB(°F/°C)	WB(°F/°C)	DB(°F/°C)	WB(°F/°C)	GMV5Mini
Cooling	95/35	75/23.9	80/26.7	67/19.4	23~118/-5~47.8
Heating	47/8.3	43/6.1	70/21.1	60/15.6	-4~81/-20~27.2

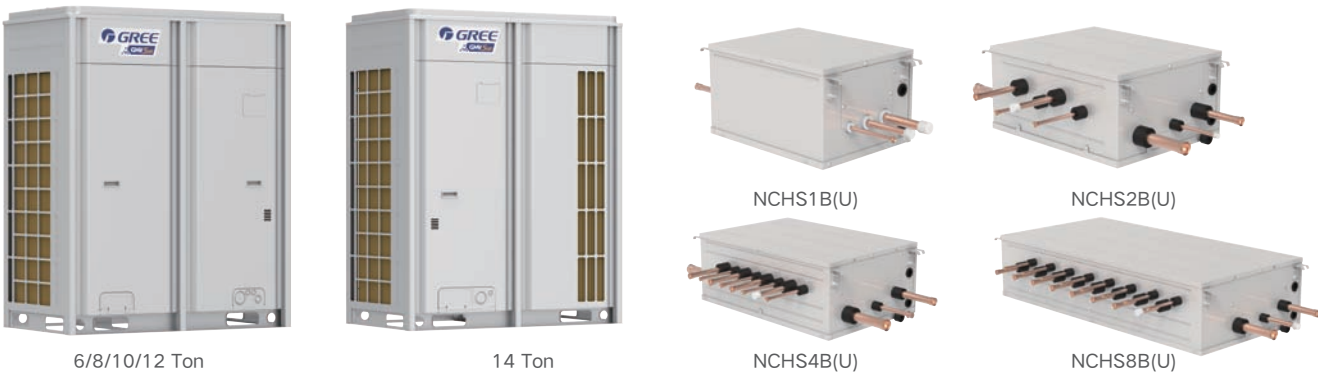
Specifications

Model			GMV-24WL/C-T(U)	GMV-28WL/C-T(U)	GMV-36WL/C-T(U)	GMV-48WL/C-T(U)	GMV-60WL/C-T(U)
Capacity range		Ton	2	2.5	3	4	5
Capacity	Cooling	Btu/h	24,000	28,000	37,600	48,000	60,000
	Heating	Btu/h	28,000	30,000	42,000	54,000	64,000
Air flow volume		CFM	2295	2295	3531	3708	4590
Power supply		V/Ph/Hz	208/230/1/60				
MCA		A	21.0	21.0	28.5	33.0	34.5
MOP		A	25	30	35	40	40
Maximum drive IDU NO.		unit	4	4	7	8	10
Refrigerant charge volume		lbs	5.3	5.3	7.3	7.3	10.14
Sound pressure level		dB(A)	57	57	55	55	63
Connecting pipe	Liquid	In.	3/8	3/8	3/8	3/8	3/8
	Gas	In.	5/8	5/8	5/8	5/8	3/4
Dimension (WxDxH)	Outline	In.	38-9/16×14-3/16×31-2/16	38-9/16×14-3/16×31-2/16	35-3/8×13-3/8×53	35-3/8×13-3/8×53	37×12-9/16×56-1/4
	Package	In.	43-3/16×18-12/16×36-14/16	43-3/16×18-12/16×36-14/16	39-1/4×18×59	39-1/4×18×59	40-5/8×17-1/4×62-1/4
Net weight/Gross weight		lbs	176/198	176/198	246/274	246/274	273/299
Loading quantity	40' GP	set	96	96	59	59	57
	40' HQ	set	96	96	59	59	57



GMV5 Heat Recovery

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



Golden fin condenser

Inner groove copper

Quiet function

High efficiency

Intelligent defrosting

Compact design

Wide voltage range

Wide operation range

Modular operating

Long-distance monitoring

Comprehensive protection

Easier maintainability

Centralized control

- All DC inverter technology. All DC inverter compressor is used in this system. It can directly intake gas to reduce the loss of overheat and improve efficiency.
- 0.33In.W.G wide application location.
- Advanced control functions.
- Better reliability.
- Wide operation range: cooling: 23°F~125.6°F (-5°C~52°C); heating: -4°F~75.2°F (-20°C~24°C); cooling and heating:14°F~68°F (-10°C~20°C).



ODU Combination Lineup

208/230V

Model	GMV-Q72WM/B-F(U) (6Ton)	GMV-Q96WM/B-F(U) (8Ton)	GMV-Q120WM/B-F(U) (10Ton)	GMV-Q144WM/B1-F(U) (12Ton)	GMV-Q168WM/B1-F(U) (14Ton)
GMV-Q72WM/B-F(U) (6Ton)	●				
GMV-Q96WM/B-F(U) (8Ton)		●			
GMV-Q120WM/B-F(U) (10Ton)			●		
GMV-Q144WM/B1-F(U) (12Ton)				●	
GMV-Q168WM/B1-F(U) (14Ton)					●
GMV-Q144WM/B-F(U) (12Ton)	● ●				
GMV-Q168WM/B-F(U) (14Ton)	●	●			
GMV-Q192WM/B-F(U) (16Ton)		● ●			
GMV-Q216WM/B-F(U) (18Ton)		●	●		
GMV-Q240WM/B-F(U) (20Ton)			● ●		
GMV-Q264WM/B-F(U) (22Ton)	●	● ●			
GMV-Q288WM/B-F(U) (24Ton)		● ● ●			
GMV-Q288WM/B1-F(U) (24Ton)				● ●	
GMV-Q312WM/B-F(U) (26Ton)		● ●	●		
GMV-Q312WM/B1-F(U) (26Ton)				●	●
GMV-Q336WM/B-F(U) (28Ton)		●	● ●		
GMV-Q336WM/B1-F(U) (28Ton)					● ●
GMV-Q360WM/B-F(U) (30Ton)			● ● ●		

ODU Combination Lineup

460V

Model	GMV-Q72WM/B-U(U) (6 Ton)	GMV-Q96WM/B-U(U) (8 Ton)	GMV-Q120WM/B-U(U) (10 Ton)
GMV-Q72WM/B-U(U) (6 Ton)	<div><div></div></div>		
GMV-Q96WM/B-U(U) (8 Ton)		<div><div></div></div>	
GMV-Q120WM/B-U(U) (10 Ton)			<div><div></div></div>
GMV-Q144WM/B-U(U) (12 Ton)	<div><div></div><div></div></div>		
GMV-Q168WM/B-U(U) (14 Ton)	<div><div></div></div>	<div><div></div></div>	
GMV-Q192WM/B-U(U) (16 Ton)		<div><div></div><div></div></div>	
GMV-Q216WM/B-U(U) (18 Ton)		<div><div></div></div>	<div><div></div></div>
GMV-Q240WM/B-U(U) (20 Ton)			<div><div></div><div></div></div>
GMV-Q264WM/B-U(U) (22 Ton)	<div><div></div></div>	<div><div></div><div></div></div>	
GMV-Q288WM/B-U(U) (24 Ton)		<div><div></div><div></div><div></div></div>	
GMV-Q312WM/B-U(U) (26 Ton)		<div><div></div><div></div></div>	<div><div></div></div>
GMV-Q336WM/B-U(U) (28 Ton)		<div><div></div></div>	<div><div></div><div></div></div>
GMV-Q360WM/B-U(U) (30 Ton)			<div><div></div><div></div><div></div></div>

Specifications

208/230V

Model			GMV-Q72WM/B-F(U)	GMV-Q96WM/B-F(U)	GMV-Q120WM/B-F(U)	GMV-Q144WM/B1-F(U)	GMV-Q168WM/B1-F(U)
Capacity range		Ton	6	8	10	12	14
Rated capacity*	Cooling	Btu/h	69,000	92,000	114,000	136,000	150,000
	Heating	Btu/h	75,000	100,000	126,000	150,000	180,000
Air flow volume		CFM	8240	8240	8240	8240	9420
Power supply		V/Ph/Hz	208/230~3~60				
MCA		A	32	37	50	55	57
MOP		A	35	45	60	70	70
Maximum drive IDU NO.		unit	13	16	19	23	29
Refrigerant charge volume		lbs	21.16	24.69	25.79	25.79	25.79
Sound pressure level		dB(A)	61	62	63	64	65
Connecting pipe	Liquid	In.	Φ3/8	Φ3/8	Φ1/2	Φ1/2	Φ5/8
	Gas(Low pressure)	In.	Φ3/4	Φ7/8	Φ1-1/8	Φ1-1/8	Φ1-1/8
	Gas(High pressure)	In.	Φ5/8	Φ3/4	Φ7/8	Φ7/8	Φ7/8
Dimension (W × D × H)	Outline	In.	52-3/4 × 30-1/8 × 63-1/4	52-3/4 × 30-1/8 × 63-1/4	52-3/4 × 30-1/8 × 63-1/4	52-3/4 × 30-1/8 × 63-1/4	52-3/4 × 30-1/8 × 68-1/2
	Package	In.	55-7/8 × 33-1/8 × 69-7/8	55-7/8 × 33-1/8 × 69-7/8	55-7/8 × 33-1/8 × 69-7/8	55-7/8 × 33-1/8 × 69-7/8	55-7/8 × 33-1/8 × 75-1/4
Net weight/Gross weight		lbs	666/699	683/716	794/827	816/849	871/906
Loading quantity	40' GP	set	22	22	22	22	22
	40' HQ	set	22	22	22	22	22

*Note: Rated capacity is certified under AHRI Standard 1230. Ratings are subject to change without notice. Current certified ratings are available at www.ahridirectory.org.

460V

Model			GMV-Q72WM/B-U(U)	GMV-Q96WM/B-U(U)	GMV-Q120WM/B-U(U)
Capacity range		Ton	6	8	10
Rated capacity*	Cooling	Btu/h	69,000	92,000	114,000
	Heating	Btu/h	75,000	100,000	126,000
Air flow volume		CFM	8240	8240	8240
Power supply		V/Ph/Hz	460~3~60		
MCA		A	15	18	25
MOP		A	20	25	30
Maximum drive IDU NO.		unit	13	16	19
Refrigerant charge volume		lbs	21	25	25.79
Sound pressure level		dB(A)	61	62	63
Connecting pipe	Liquid	In.	Φ3/8	Φ3/8	Φ1/2
	Gas(Low pressure)	In.	Φ3/4	Φ7/8	Φ1-1/8
	Gas(High pressure)	In.	Φ5/8	Φ3/4	Φ7/8
Dimension (W × D × H)	Outline	In.	52-3/4 × 30-1/8 × 63-1/4	52-3/4 × 30-1/8 × 63-1/4	52-3/4 × 30-1/8 × 63-1/4
	Package	In.	55-7/8 × 33-1/8 × 69-7/8	55-7/8 × 33-1/8 × 69-7/8	55-7/8 × 33-1/8 × 69-7/8
Net weight/Gross weight		lbs	672/705	694/728	816/849
Loading quantity	40' GP	set	22	22	22
	40' HQ	set	22	22	22

*Note: Rated capacity is certified under AHRI Standard 1230. Ratings are subject to change without notice. Current certified ratings are available at www.ahridirectory.org.

Specifications of ODU Combination

208/230V

Model	Power supply	Rated capacity*		Dimension(W × D × H)	Airflow volume	ESP	Sound pressure level	Operation sound pressure level at night	Connecting pipe			MCA	MOP	Weight
		Cooling	Heating						Liquid	Gas(High pressure)	Gas(Low pressure)			
		Btu/h	Btu/h		CFM	In.W.G	dB(A)	dB(A)	In.	In.	In.	A	A	lbs
GMV-Q144WM/B-F(U)	208/230~3~60	134,000	150,000	(52-3/4x30-1/8x63-1/4)x2	8240x2	0.33	63	48	Φ1/2	Φ7/8	Φ1-1/8	32+32	35+35	666x2
GMV-Q168WM/B-F(U)		156,000	176,000	(52-3/4x30-1/8x63-1/4)x2	8240x2	0.33	64	48	Φ5/8	Φ7/8	Φ1-1/8	32+37	35+45	666+683
GMV-Q192WM/B-F(U)		184,000	200,000	(52-3/4x30-1/8x63-1/4)x2	8240x2	0.33	64	48	Φ5/8	Φ1-1/8	Φ1-1/8	37+37	45+45	683x2
GMV-Q216WM/B-F(U)		200,000	226,000	(52-3/4x30-1/8x63-1/4)x2	8240x2	0.33	65	48	Φ5/8	Φ1-1/8	Φ1-1/8	37+50	45+60	683+794
GMV-Q240WM/B-F(U)		224,000	240,000	(52-3/4x30-1/8x63-1/4)x2	8240x2	0.33	65	48	Φ5/8	Φ1-1/8	Φ1-3/8	50+50	60+60	794X2
GMV-Q264WM/B-F(U)		246,000	276,000	(52-3/4x30-1/8x63-1/4)x3	8240x3	0.33	65	48	Φ3/4	Φ1-1/8	Φ1-3/8	32+37+37	35+45+45	666+683x2
GMV-Q288WM/B-F(U)		268,000	294,000	(52-3/4x30-1/8x63-1/4)x3	8240x3	0.33	66	48	Φ3/4	Φ1-1/8	Φ1-3/8	37+37+37	45+45+45	683x3
GMV-Q288WM/B1-F(U)		274,000	290,000	(52-3/4 × 30-1/8 × 63-1/4) × 2	8240 × 2	0.33	66	48	Φ3/4	Φ1-1/8	Φ1-3/8	55+55	70+70	816 × 2
GMV-Q312WM/B-F(U)		290,000	312,000	(52-3/4x30-1/8x63-1/4) × 3	8240 × 3	0.33	66	48	Φ3/4	Φ1-1/8	Φ1-3/8	37+37+50	45+45+60	683x2+794
GMV-Q312WM/B1-F(U)	208/230~3~60	290,000	310,000	52-3/4 × 30-1/8 × 63-1/4 + 52-3/4 × 30-1/8 × 68-1/2	8240 + 9420	0.33	66	48	Φ3/4	Φ1-1/8	Φ1-3/8	55+57	70+70	816+871
GMV-Q336WM/B-F(U)		312,000	320,000	(52-3/4 × 30-1/8 × 63-1/4) × 3	8240 × 3	0.33	67	48	Φ3/4	Φ1-1/8	Φ1-3/8	37+50+50	45+60+60	683+794x2
GMV-Q336WM/B1-F(U)		306,000	330,000	(52-3/4 × 30-1/8 × 68-1/2) × 2	9420 × 2	0.33	67	48	Φ3/4	Φ1-1/8	Φ1-3/8	57+57	70+70	871 × 2
GMV-Q360WM/B-F(U)		334,000	360,000	(52-3/4 × 30-1/8 × 63-1/4) × 3	8240 × 3	0.33	67	48	Φ3/4	Φ1-3/8	Φ1-5/8	50+50+50	60+60+60	794x3

*Note: Rated capacity is certified under AHRI Standard 1230. Ratings are subject to change without notice. Current certified ratings are available at www.ahridirectory.org.

Specifications of ODU Combination

460V

Model	Power supply	Rated capacity*		Dimension(W × D × H)	Airflow volume	ESP	Sound pressure level	Operation sound pressure level at night	Connecting pipe			MCA	MOP	Weight
		Cooling	Heating						Liquid	Gas(High pressure)	Gas(Low pressure)			
		Btu/h	Btu/h		CFM	In.W.G	dB(A)	dB(A)	In.	In.	In.	A	A	lbs
GMV-Q144WM/B-U(U)	460~3~60	134,000	150,000	(52-3/4 × 30-1/8 × 63-1/4) × 2	8240 × 2	0.33	63	48	Φ1/2	Φ7/8	Φ1-1/8	15+15	20+20	672 × 2
GMV-Q168WM/B-U(U)		156,000	176,000	(52-3/4 × 30-1/8 × 63-1/4) × 2	8240 × 2	0.33	64	48	Φ5/8	Φ7/8	Φ1-1/8	15+18	20+25	672+694
GMV-Q192WM/B-U(U)		184,000	200,000	(52-3/4 × 30-1/8 × 63-1/4) × 2	8240 × 2	0.33	64	48	Φ5/8	Φ1-1/8	Φ1-1/8	18+18	25+25	694 × 2
GMV-Q216WM/B-U(U)		200,000	226,000	(52-3/4 × 30-1/8 × 63-1/4) × 2	8240 × 2	0.33	65	48	Φ5/8	Φ1-1/8	Φ1-1/8	18+25	25+30	694+816
GMV-Q240WM/B-U(U)		224,000	240,000	(52-3/4 × 30-1/8 × 63-1/4) × 2	8240 × 2	0.33	65	48	Φ5/8	Φ1-1/8	Φ1-3/8	25+25	30+30	816 × 2
GMV-Q264WM/B-U(U)		246,000	276,000	(52-3/4 × 30-1/8x63-1/4) × 3	8240 × 3	0.33	65	48	Φ3/4	Φ1-1/8	Φ1-3/8	15+18+18	20+25+25	672+694 × 2
GMV-Q288WM/B-U(U)		268,000	294,000	(52-3/4 × 30-1/8 × 63-1/4) × 3	8240 × 3	0.33	66	48	Φ3/4	Φ1-1/8	Φ1-3/8	18+18+18	25+25+25	694 × 3
GMV-Q312WM/B-U(U)		290,000	312,000	(52-3/4 × 30-1/8 × 63-1/4) × 3	8240 × 3	0.33	66	48	Φ3/4	Φ1-1/8	Φ1-3/8	18+18+25	25+25+30	694 × 2+816
GMV-Q336WM/B-U(U)		312,000	320,000	(52-3/4 × 30-1/8 × 63-1/4) × 3	8240 × 3	0.33	67	48	Φ3/4	Φ1-1/8	Φ1-3/8	18+25+25	25+30+30	694+816 × 2
GMV-Q360WM/B-U(U)		334,000	360,000	(52-3/4 × 30-1/8 × 63-1/4) × 3	8240 × 3	0.33	67	48	Φ3/4	Φ1-3/8	Φ1-5/8	25+25+25	30+30+30	816 × 3

*Note: Rated capacity is certified under AHRI Standard 1230. Ratings are subject to change without notice. Current certified ratings are available at www.ahridirectory.org.

Model			NCHS1B(U)	NCHS2B(U)	NCHS4B(U)	NCHS8B(U)
Max.quantity of connecting IDU for mode exchanger		/	8	16	32	64
Max. branch quantity of connecting IDU		/	1	2	4	8
Max. quantity of connecting IDU for each branch		/	8	8	8	8
Max. capacity of connecting IDU for each branch		Btu/h	48,500	48,500	48,500	48,500
Total capacity of connecting IDU for each branch		Btu/h	48,500	96,000	154,000	232,000
Power supply		V/Ph/Hz	208/230~1~60			
Power consumption		W	8	20	32	64
Outdoor unit piping connection	Liquid	In.	Φ3/8	Φ3/8	Φ1/2	Φ5/8
	Gas(Low pressure)	In.	Φ7/8	Φ7/8	Φ1-1/8	Φ1-1/8
	Gas(High pressure)	In.	Φ5/8	Φ3/4	Φ7/8	Φ7/8
Indoor unit piping connection	Liquid	In.	Φ3/8	Φ3/8	Φ3/8	Φ3/8
	Gas	In.	Φ5/8	Φ5/8	Φ5/8	Φ5/8

GMV PTAC VRF

GMV MTAC is a concealed VRF unit without front air discharge and air return , which can reduce the noise. It ’ s mainly developed for the North American market, which is applicable for apartments, offices, hotels and other areas. The unit adopts deep subcooling technology for ensuring the quiet cooling operation. Moreover, the unique drainage control technology has solved the problem of water drainage of the outdoor unit under a low-temperature environment.





High efficiency



Low temperature heating



Golden fin condenser



Quality motor



Easier maintainability



Low voltage startup

- The system adopts all DC motor, which greatly improves efficiency. The energy efficiency for all Gree DC units is increased greatly. SEER=15.0 , HSPF=8.0.
- The latest communication way-CAN bus communication is adopted, which greatly improves anti-interference ability, precisely controls the indoor units and improves the reliability of the system. Meanwhile, a specialized shielded wire is no longer needed, while conventional communication wire can be used to increase the flexibility of project installation.
- The system can operate constantly and reliably in a wide temperature range(cooling: 23~118.4°F/-5~47.8°C, heating: -4~80.6°F/-20~27.2°C), which is not affected by an atrocious environment.
- A series of optimized measures are taken to solve the problem of indoor unit ’ s throttling sound, indoor unit ’ s oil return noise, gas bypass noise during start-up, which improves the comfort of the system.
- The system applies the original technology of PID intelligent capacity adjustment, which quickly and precisely controls indoor ambient temperature according to set temperature, with small temperature fluctuation and great comfort.



Max. piping length (m(ft.))	GMV MTAC
Total piping length	30(98-3/8)
Actual length of the farthest fitting pipe	30(98-3/8)
Height difference between indoor units	10(32-6/8)
Height difference between ODU and IDU(ODU is located above the IDU)	15(49-2/8)
Height difference between ODU and IDU(IDU is located above the ODU)	15(49-2/8)
Piping length from first indoor branch to the farthest IDU	15(49-2/8)

Item	Nominal operating condition (temperature)				Operatingrange(temperature)
	Outdoor condition		Indoor condition		Outdoor condition DB(°F/°C)
	DB(°F/°C)	WB(°F/°C)	DB(°F/°C)	WB(°F/°C)	GMV MTAC
Cooling	95/35	75/23.9	80/26.7	67/19.4	23~118.4/-5~47.8
Heating	47/8.3	43/6.1	70/21.1	60/15.6	-4~80.6/-20~27.2

Model		-	GMV-12WP/A-T(U)
Capacity range		Ton	1
Capacity	Cooling	Btu/h	12000
	Heating	Btu/h	12000
Air flow volume		CFM	500
Power supply		V/Ph/Hz	208/230/1/60
Maximum drive IDU NO.		unit	2
Refrigerant charge volume		lbs	1.8
Sound pressure level		dB(A)	Indoor46/Outdoor57
Connecting pipe	Liquid	In.	1/4
	Gas	In.	1/2
Dimension (W×D×H)	Outline	In.	42-1/16×19-11/16×16
	Package	In.	45-15/16×23-12/16×19-2/16
Net weight/Gross weight		lbs	121/139
Built-in water pump		Total head lift	137-6/8
Loading quantity	40 ’ GP	set	120
	40 ’ HQ	set	150

GMV5 Solar



GMV5 Solar



Gree GMV5 Solar adopts inverter compressor technology, with capacities ranging from 3 tons to 10 tons. It has a broad product lineup and is widely applicable to places such as residential houses, apartments, and office buildings.



Specifications

Model		-	GMV-Y36WL/A-T(U)*	GMV-Y48WL/A-T(U)*	GMV-Y60WL/A-T(U)*
Capacity range		Ton	3	4	5
Capacity	Cooling	Btu/h	37,500	48,000	54,000
	Heating	Btu/h	42,000	54,000	60,000
Air flow volume		CFM	3531	3708	3884
Power supply		V/Ph/Hz	208/240~1~60	208/240~1~60	208/240~1~60
Minimum circuit ampacity (MCA)		A	AC 32A DC 12A	AC 35A DC 12A	AC 38A DC 12A
Maximum overcurrent protection (MOP)		A	AC/DC 35A/15A	AC/DC 45A/19A	AC/DC 50A/22A
Range of allowable open circuit input voltage		V	120-440	120-440	120-440
Range of input operating voltage		V	AC 208/240V DC 100-380V	AC 208/240V DC 100-380V	AC 208/240V DC 100-380V
Max. solar short circuit current		A	15	15	15
Recommended quantity of solar panel *Base on Yingli model YL325D-36b		/	8/16	8/16	8/16
Maximum drive IDU NO.		/	7	8	9
Refrigerant charge volume		lbs/Oz	7.275/116.4	7.275/116.4	7.275/116.4
Sound pressure level		dB(A)	57	58	59
Connecting pipe	Liquid	In.	3/8	3/8	3/8
	Gas	In.	5/8	5/8	3/4
Dimension (W × D × H)	Outline	In.	35-3/8x13-3/8x53	35-3/8x13-3/8x53	35-3/8x13-3/8x53
	Package	In.	39-5/16 × 18 × 59	39-5/16 × 18 × 59	39-5/16 × 18 × 59
Net weight/Gross weight		lbs	271.2/293.3	271.2/293.3	271.2/293.3
Loading quantity	40' GP	unit	58	58	58
	40' HQ	unit	59	59	59

- With LAN reverse power control technology; efficiency of PV power generation/consumption is more than 99%.
- Active grid configuration, automatically identifying 208/240V and 60Hz and other global power supply type.
- Adopt a 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 built-in smart energy control module can freely connect to Gree self-developed Information Energy Management System (IEMS) for smart energy distribution.
- This function is upgradeable. An energy storage unit is optional. The upgrade from PV air conditioning to PV storage air conditioning should match with our energy management system solution.

Model		-	GMV-Y72WM/C-F(U)	GMV-Y96WM/C-F(U)	GMV-Y120WM/C-F(U)
Capacity range		Ton	6	8	10
Rated capacity**	Cooling	Btu/h	69,000	92,000	114,000
	Heating	Btu/h	77,000	103,000	129,000
Air flow volume		CFM	6710	8240	8240
Power supply		V/Ph/Hz	208/240~3~60	208/240~3~60	208/240~3~60
Minimum circuit ampacity (MCA)		A	35.3(208V)/30.3(240V)	43.6(208V)/37.3(240V)	44.8(208V)/39.8(240V)
Maximum overcurrent protection (MOP)		A	45.0(208V)/40.0(240V)	45.0(208V)/40.0(240V)	45.0(208V)/40.0(240V)
Max. PV input voltage		V	1000	1000	1000
Range of input operating voltage		V	400~780	400~780	400~780
Max. solar short circuit current		A	39	39	39
Recommended quantity of solar panel *Base on Yingli model YL325D-36b		/	18/36	18/36	18/36
Maximum drive IDU NO.		/	13	16	19
Refrigerant charge volume		lbs	14.33	24.91	26.01
Sound pressure level		dB(A)	60	61	63
Connecting pipe	Liquid	In.	Φ3/8	Φ3/8	Φ1/2
	Gas	In.	Φ3/4	Φ7/8	Φ1-1/8
	Oil balance	In.	Φ3/8	Φ3/8	Φ3/8
Dimension (W×D×H)	Outline	In.	36-5/8×30-1/8×63-1/4	52-3/4×30-1/8×63-1/4	52-3/4×30-1/8×63-1/4
	Package	In.	39-3/4×33-1/8×69-7/8	55-7/8×33-1/8×69-7/8	55-7/8×33-1/8×69-7/8
Net weight/Gross weight*		lbs	487/514	650/683	650/683
Loading quantity	40 ' GP	unit	28	22	22
	40 ' HQ	unit	28	22	22

*Note: The weight as above does not include the converter ' s weight.
**Note: Rated capacity is certified under AHRI Standard 1230. Ratings are subject to change without notice. Current certified ratings are available at www.ahrirectory.org.

Model	GIE-ADC12K5E
INVERTER SPECIFICATIONS	
Rated AC voltage	208 / 240V AC 3~ + PE
Rated AC power	12.5kW
Rated AC current	35A *3 / 30A *3
Output frequency and accuracy	60Hz ± 1Hz
Max. PV input voltage(OC)	1000V DC
MPPT range	400V-780V
Isc PV	39A
Max. continuous input current	2*14A
Max. PV input power	14kW
Max. DC continuous output current	25A
Rated DC output current	25A
DC output voltage	400V-780V
Power factor	-0.8~0.8
Ambient temperature	-20°C~50°C (-4°F~122°F)
Total harmonic distortion (THD)	<3%
Inverter efficiency (Peak)	97.60%
Overtemperature protection	Yes
Overtemperature protection	Yes
Ingress protection	TYPE 3
Operating humidity	0~95%
Certification	UL 1741 IEEE 1547
PHYSICAL SPECIFICATIONS	
Dimensions (L × W × H)	12-1/8 × 8-1/8 × 43-5/8(In.) 307 × 204.5 × 1109(mm)
Mounting	Vertical
Net weight	45 (kg) / 99 (Lbs.)
Gross weight	47 (kg) /104 (Lbs.)

Ultra Heat GMV



Ultra Heat GMV

Gree Ultra Heat GMV adopts a multi-cylinder EVI compressor to ensure strong heating capacity. Its EER reaches 11.3, with a capacity range from 72K to 192K. It has a broad product lineup and is widely applicable to places such as residential houses, apartments, and office buildings.



72/96K



XK46



YAP1F



High efficiency



Golden fin condenser



Turbo function



Low temperature heating



Centralized control



Long-distance monitoring

- Stable operation under -22°F/-30°C.
- The capacity ratio of indoor and outdoor units is 50%~100%.
- Highly efficient DC inverter control technology adopted.
- With CAN communication technology, connectable to GMV5 indoor units.
- 34 indoor units connectable in maximum.
- Heating performance is not weakened even at -4°F/-20°C.

Heat Pump

Model		-	GMV-V72W/A-F(U)	GMV-V96W/A-F(U)
Capacity range		Ton	6	8
Capacity	Cooling	kBtu	69	92
	Heating	kBtu	77	103
Power supply		V/Ph/Hz	208/230/3/60	208/230/3/60
MCA		A	40	45
MOP		A	50	60
Airflow volume		CFM	8239	8239
Sound pressure level		dB	60	60
Maximum drive IDU NO.		/	12	17
Refrigerant charge volume		lbs/Oz	24.25/388	24.25/388
Operating range		° F	-22~-125.6	-22~-125.6
Cooling (Non-ducted /Ducted)	Rated capacity	Btu/h	69000/69000	92000/92000
	Capacity range	Btu/h	7500~69000	7500~92000
	Rated total input	W	6100/6160	8210/8360
	Rated capacity	Btu/h	77000/77000	103000/103000
Heating at 47°F (Non-ducted /Ducted)	Capacity range	Btu/h	8500~77000	8500~103000
	Rated total input	W	6450/6640	8630/8880
	Rated capacity	Btu/h	60000/60000	68000/68000
Heating at 17°F (Non-ducted /Ducted)	Capacity range	Btu/h	8500~77000	8500~103000
	Rated total input	W	7816/7816	8858/8858
	Maximum capacity	Btu/h	77000	103000
Efficiency	SEER(Non-ducted /Ducted)		/	/
	EER(Non-ducted /Ducted)		11.3/11.2	11.2/11.0
	COP(Non-ducted /Ducted)		3.5/3.4	3.5/3.4
	HSPF(Non-ducted /Ducted)		/	/
	Liquid	In.	1/2	1/2
Connecting pipe	Gas(Low pressure)	In.	1 1/8	1 1/8
	Gas(High pressure)	In.	/	/
	Outline	In.	52-3/4 × 30-1/8 × 63-1/8	52-3/4 × 30-1/8 × 63-1/8
Dimension (W × D × H)	Package	In.	56 × 33 × 69-7/8	56 × 33 × 69-7/8
	40'GP	set	16	16
Loading quantity	40'HQ	set	16	16

Heat Pump

Model		-	GMV-V72W/A-F(U) +GMV-V72W/A-F(U)	GMV-V72W/A-F(U) +GMV-V96W/A-F(U)	GMV-V96W/A-F(U) +GMV-V96W/A-F(U)
Capacity range		Ton	12	14	16
Capacity	Cooling	kBtu	138	160	184
	Heating	kBtu	154	180	200
Power supply		V/Ph/Hz	208/230/3/60	208/230/3/60	208/230/3/60
MCA		A	40+40	40+45	45+45
MOP		A	50+50	50+60	60+60
Airflow volume		CFM	16460	16460	16460
Sound pressure level		dB	60	60	60
Maximum drive IDU NO.		/	24	29	34
Refrigerant charge volume		lbs/Oz	48.5/776	48.5/776	48.5/776
Operating range		° F	-22~-125.6	-22~-125.6	-22~-125.6
Cooling (Non-ducted /Ducted)	Rated capacity	Btu/h	138000	160000	184000/184000
	Capacity range	Btu/h	7500~138000	7500~160000	7500~184000/7500~184000
	Rated total input	W	12580/12580	14790/14790	17360/17360
	Rated capacity	Btu/h	154000	180000	200000/200000
Heating at 47°F (Non-ducted /Ducted)	Capacity range	Btu/h	8500~154000	8500~180000	8500~200000/8500~200000
	Rated total input	W	13670/13670	16250/16250	18030/18030
	Rated capacity	Btu/h	110000	118000	136000/136000
	Capacity range	Btu/h	8500~154000	8500~180000	8500~200000
Heating at 17°F (Non-ducted /Ducted)	Rated total input	W	15726	16870	18981/18981
	Maximum capacity	Btu/h	154000	180000	200000
Efficiency	SEER(Non-ducted /Ducted)		/	/	/
	EER(Non-ducted /Ducted)		11/11	10.9/10.9	10.6/10.6
	COP(Non-ducted /Ducted)		3.3/3.3	3.25/3.25	3.25/3.2
	HSPF(Non-ducted /Ducted)		/	/	/
Connecting pipe	Liquid	In.	5/8	5/8	5/8
	Gas(Low pressure)	In.	1 3/8	1 3/8	1 3/8
	Gas(High pressure)	In.	/	/	/
Dimension (W × D × H)	Outline	In.	(52-3/4 × 30-1/8 × 63-1/8)*2	(52-3/4 × 30-1/8 × 63-1/8)*2	(52-3/4 × 30-1/8 × 63 1/8)*2
	Package	In.	(56 × 33 × 69-7/8)*2	(56 × 33 × 69-7/8)*2	(56 × 33 × 69 7/8)*2
Loading quantity	40'GP	set	8	8	8
	40'HQ	set	8	8	8

Heat Recovery

Model		-	GMV-VQ72W/A-F(U)	GMV-VQ96W/A-F(U)	GMV-VQ72W/A-F(U) +GMV-VQ72W/A-F(U)	GMV-VQ72W/A-F(U) +GMV-VQ96W/A-F(U)	GMV-VQ96W/A-F(U) +GMV-VQ96W/A-F(U)
Capacity range		Ton	6	8	12	14	16
Capacity	Cooling	kBtu	69	92	138	160	184
	Heating	kBtu	77	103	154	180	200
Power supply		V/Ph/Hz	208/230/3/60	208/230/3/60	208~230/3/60	208~230/3/60	208~230/3/60
MCA		A	40	45	40+40	40+45	45+45
MOP		A	50	60	50+50	50+60	60+60
Airflow volume		CFM	8239	8239	16460	16460	16460
Sound pressure level		dB	60	60	60	60	60
Maximum drive IDU NO.		/	12	17	24	29	34
Refrigerant charge volume		lbs/Oz	27.56/441	27.56/441	55.12/882	55.12/882	55.12/882
Operating range		° F	-22~-125.6	-22~-125.6	-22~-125.6	-22~-125.6	-22~-125.6
Cooling (Non-ducted /Ducted)	Rated capacity	Btu/h	69000/69000	92000/92000	138000	160000	184000/184000
	Capacity range	Btu/h	7500~69000	7500~92000	7500~138000	7500~160000	7500~184000/7500~184000
	Rated total input	W	6100/6160	8360/8360	12580/12580	14790/14790	17360/17360
	Rated capacity	Btu/h	77000	103000	154000	180000	200000/200000
Heating at 47°F (Non-ducted /Ducted)	Capacity range	Btu/h	8500~77000	8500~103000	8500~154000	8500~180000	8500~200000/8500~200000
	Rated total input	W	6640/6840	8880/9010	13670/13670	16250/16250	18030/18310
	Rated capacity	Btu/h	60000/60000	68000/68000	110000	118000	136000/136000
Heating at 17°F (Non-ducted /Ducted)	Capacity range	Btu/h	8500~77000	8500~103000	8500~154000	8500~180000	8500~200000
	Rated total input	W	7816/7816	8858/8858	15726	16870	18981/19443
	Maximum capacity	Btu/h	77000	103000	154000	180000	200000
Efficiency	SEER(Non-ducted /Ducted)		/	/	/	/	/
	EER(Non-ducted /Ducted)		11.3/11.2	11/11	11/11	10.8/10.8	10.6/10.6
	COP(Non-ducted /Ducted)		3.4/3.3	3.4/3.35	3.3/3.3	3.25/3.25	3.25/3.2
	HSPF(Non-ducted /Ducted)		/	/	/	/	/
	Liquid	In.	1/2	1/2	5/8	5/8	5/8
Connecting pipe	Gas(Low pressure)	In.	1 1/8	1 1/8	1 3/8	1 3/8	1 3/8
	Gas(High pressure)	In.	3/4	3/4	1 1/8	1 1/8	1 1/8
Dimension (W × D × H)	Outline	In.	52 3/4 × 30 1/8 × 63 1/8	52 3/4 × 30 1/8 × 63 1/8	(52-3/4 × 30-1/8 × 63-1/8)*2	(52-3/4 × 30-1/8 × 63-1/8)*2	(52 3/4 × 30 1/8 × 63 1/8)*2
	Package	In.	56 × 33 × 69 7/8	56 × 33 × 69 7/8	(56 × 33 × 69-7/8)*2	(56 × 33 × 69-7/8)*2	(56 × 33 × 69 7/8)*2
Loading quantity	40'GP	set	16	16	8	8	8
	40'HQ	set	16	16	8	8	8

Indoor Units



Indoor Units Lineup

Type of indoor unit	Product	5	6	7	9	12	14	15	18	22	24	30	36	42	48	54	60	72	96	192
High Static Pressure Duct Unit				●	●	●		●	●	●	●	●	●	●	●	●		●	●	
General Static Pressure Duct Unit												●	●	●	●					
Low Static Pressure Duct Unit		●		●	●	●	●		●		●									
360° Air Discharge Cassette Indoor Unit				●	●	●		●	●	●	●	●	●	●	●	●				
360° Air Discharge Compact Cassette Unit		●		●	●	●		●	●											
2-Way Cassette Unit					●	●		●	●		●									
1-Way Cassette Unit				●	●	●														
Wall-mounted Type			●	●	●	●	●		●		●	●	●							
Console			●	●	●	●			●			●								
Floor Ceiling Type					●	●			●		●	●	●	●	●	●				
Air Handler					●	●			●		●	●	●	●	●	●	●			
Fresh Air Processing Unit														●	●	●		●	●	
AHU-KIT						●					●				●				●	●

High Static Pressure Duct Unit



- High static pressure design

Static pressure can be up to 275Pa(1.1 In.W.G), especially suitable for places in need of long distance airflow.

- Convenient installation

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

- Easy maintenance

The system has maintenance window for easy maintenance.

- Protection function

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

General Static Pressure Duct Unit



- **Medium static pressure design with multiple static pressure levels for your option**

External static pressure design reaches 80Pa(0.31in.W.G) for multiple air supply areas and long air supply distance, satisfying various layout requirements. With five external static pressure levels, convenient for engineering design and application.

- **DC motor design with energy-saving and quiet operation**

DC brushless motor is adopted to achieve stepless adjustment of rotation speed, more stable speed adjustment and quieter operation.

- **Intelligent drain device without height limitation**

DC drain pump is equipped with a maximum lift height of 1m, solving the condensate drainage problem caused by small installation space and saving the installation space.

- **Multiple protections function**

Water-full protection, freeze prevention, abnormal temperature sensor protection and built-in fan overload protection, etc.

Low Static Pressure Duct Unit



- **Low static pressure, low noise**

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

- **Intelligent drainage device**

Water height difference up to 1.2m(3-15/16ft.), which can effectively drain out condensing water and save space.

Note: Please specify if you need this function.

- **Convenient installation**

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

- **Protection function**

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

360 ° Air Discharge Cassette Indoor Unit



- **360 ° Air supply**

360 ° air supply design to make indoor airflow more even and temperature distribution more comfortable to avoid any blind angle.

- **Individual swing control**

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

- **Lifting water pump of condensate**

With direct current drainage pump, the operation noise is lower and the lift reaches 1.2m (47-1/4 inches).

- **Fresh air function**

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

- **I-feel technology***

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

Note: * This function is custom-made.

Fresh Air Ventilation Kit



- **Fresh air quality**

The fresh air device operates by matching with 360 ° air discharge cassette indoor unit, supplying indoor side with outdoor fresh air to improve indoor air quality and then let users enjoy the fresher air.

- **Beautiful appearance**

With a beautiful and elegant outlook, it can match with a 360 ° air discharge cassette unit for operation.

360 ° Air Discharge Compact Cassette Unit



- **360 ° Air supply**

360 ° air supply design for wide air supply range and balanced temperature distribution, more comfortable.

- **Independent swing control**

4 swing blades can be controlled independently; multiple air supply angle combinations are available for free and humanized control, avoiding direct air blow to people.

- **New air duct and blade design for low noise**

Adopt new air duct and blade with fluid simulation design for lower noise; noise is as low as 25dB.

- **DC quiet drainage pump**

The water height difference is up to 1.2m (47-1/4 inches), which can effectively drain out condensing water and save space. High-lift DC quiet type drainage pump reduces power consumption and improves sound quality; the maximum lifting height is 1.2m (47-1/4 inches); installation is more flexible and the drainage pipe layout is more convenient.

2-way Cassette Unit



- **Compact design**

The new generation of two-way cassette unit has a very thin body (11 inches), which is 11.1% thinner than the last generation. Therefore, it requires less installation space and is more practical in engineering.

- **Brand new panel**

The new generation of two-way cassette unit adopts a brand new front panel design, making it visually pleasing and perfectly fit into indoor decoration.

- **Independent air swing**

There are two air deflectors that can be controlled independently to adjust the air supply direction. They can make different combinations of air swing angles to avoid direct airflow to people.

* It must be used with the wired controller (XE70-33/H).

- **Intelligent drainage**

It is equipped with a highly efficient DC quiet type condensate pump. The water drop difference is up to 1.2m (47-1/4 inches), which can effectively discharge condensate in case of narrow installation space. Thanks to the DC quiet design, the pump is able to operate quietly.

- **Horizontal + vertical air supply**

The front panel adopts an arc design for the end of air deflectors. With structural simulation analysis, the best air supply angle was simulated. In cooling mode, the unit can achieve horizontal air supply to avoid cold air draft to people. In heating mode, it can achieve vertical air supply to improve the degree of heating comfort.

1-way Cassette Indoor Unit



- **Small installation space**

With 185mm (7-1/4 inches) ultra thin design, the unit can be installed in a 19cm (7-1/2 inches) deep ceiling.

- **Detachable grille and long-life filter**

A grille is detachable for easy cleaning. With durable filter, the cleaning cycle is 20 times longer.

- **High drain pump lift**

Drain pump lift reaches 1.2m (47-1/4 inches), which can effectively drain out water.

- **Protection function**

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

Wall-mounted Type



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

Up air outlet: In cooling, cool air blows out horizontally and then gradually drops.

Down air swing: In heating, warm air blows downward and then gradually climbs up.

- **Triple defenders for better purification**

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

- **Cold air prevention design**

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

- **Multiple protections**

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

Console



- **Multiple fan speed**

The fan can operate in multiple speed and satisfy different airflow volume requirements.

- **Protection function**

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

- **Detachable grille and long-life filter**

A grille is detachable for easy cleaning. With long life filter, the cleaning cycle is 20 times longer.

Floor Ceiling Type



- **Ceiling or floor mounted, flexible installation**

The unit can be ceiling or floor mounted. When floor mounted, a suspended ceiling is not needed.

- **Beautiful appearance**

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

- **Protection function**

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

- **Horizontal and vertical air swing**

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

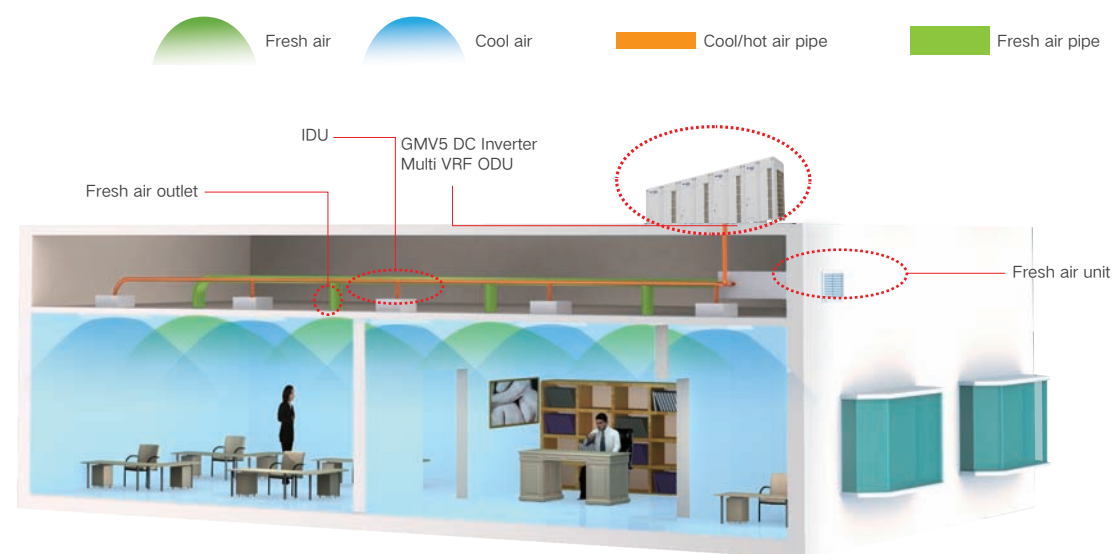
Fresh Air Processing Unit

Airflow volume: 589~2060CFM; cooling capacity: 42~96 kBtu/h.
Applicable to all kinds of structure.



One system, two functions

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



Enjoy fresh air

- Airflow volume: 589~2060CFM; cooling capacity: 42~96 kBtu/h
Applicable for all kinds of structure.
- Direct evaporative cooling adopted, air conditioning+fresh air can be realized accurately and precisely.
- DC inverter technology adopted, constant humidity is enabled with less power consumption.
- Integrated system control with Gree GMV Multi VRF System.



Air conditioning and fresh air, two in one

Less investment

Fresh Air DC Inverter Multi VRF System can be combined with Gree GMV5. For the same room, if the same amount of fresh air is to be taken, then the cost of GMV5+Fresh air unit is equivalent to the cost of GMV+Air exchange fan.

Less operation cost

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



Air Handler

Highly flexible installation

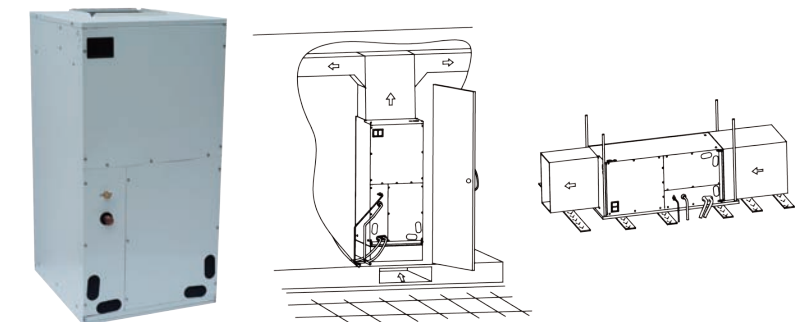
Installation space for this unit is small, allowing easy installation and maintenance. The unit can be installed on the ground or on the roof of the building, which means the installation is totally flexible depending on the project requirement.

Cold air prevention design

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

Long life and washable filter

The filter is easy to be dismantled and installed. You can use a dust collector or water to clear away the dust.



AHU KIT

- With functions and advantages of the VRF unit.
- Multiple installation methods, convenient for project design.
- Independent design, convenient for installation.
- With a wide capacity range.
- Error signal connected, safe and reliable for operation.
- Take the outdoor unit of VRF unit as the cold and heat sources, no need extra cold and heat sources.
- Dual control methods: general indoor unit control or fresh function control for selection.
- AHU KIT can connect the third-party controller to realize many functions for the complete system, such as switchover among different modes and temperature setting.



High Static Pressure Duct Unit

Model			GMV-ND07PHS/B-T(U)	GMV-ND09PHS/B-T(U)	GMV-ND12PHS/B-T(U)	GMV-ND15PHS/B-T(U)	GMV-ND18PHS/B-T(U)
Capacity	Cooling	Btu/h	7500	9500	12,000	15,000	18,000
	Heating	Btu/h	8500	10,500	13,500	17,000	20,000
Power supply		V/Ph/Hz	208/230/1/60				
Power consumption		W	66	66	42	51	106
Airflow volume(H/M/L)	m3h		550/480/400	550/480/400	600/500/420	850/700/600	1000/800/700
	CFM		324/282/235	324/282/235	353/294/247	500/412/353	589/471/412
MCA	A		1	1	1	1	1
MOP	A		15	15	15	15	15
ESP	In.W.G		0.24/0~0.6	0.24/0~0.6	0.24/0~0.6	0.24/0~0.6	0.36/0~0.8
Sound pressure level(H/M/L)		dB(A)	35/33/31	35/33/31	36/34/32	40/37/34	42/38/35
Connecting pipe	Liquid	In.	Φ1/4	Φ1/4	Φ1/4	Φ1/4	Φ3/8
	Gas	In.	Φ3/8	Φ3/8	Φ1/2	Φ1/2	Φ5/8
Drain pipe	External dia.	In.	Φ1	Φ1	Φ1	Φ1	Φ1
	Thickness	In.	3/32	3/32	3/32	3/32	3/32
Dimension (W×D×H)	Outline	In.	27-9/16×27-9/16×11-13/16	27-9/16×27-9/16×11-13/16	39-3/8×27-9/16×11-13/16	39-3/8×27-9/16×11-13/16	39-3/8×27-9/16×11-13/16
	Package	In.	35-5/16×31-13/16×14-3/16	35-5/16×31-13/16×14-3/16	47-7/16×32×14-3/16	47-7/16×32×14-3/16	47-7/16×32×14-3/16
Net weight/Gross weight		lbs	73/86	73/86	94/108	94/108	94/108
Loading quantity	40'GP	set	168	168	138	138	138
	40'HQ	set	196	196	161	161	161

Model			GMV-ND22PHS/B-T(U)	GMV-ND24PHS/B-T(U)	GMV-ND30PHS/B-T(U)	GMV-ND36PHS/B-T(U)	GMV-ND42PHS/B-T(U)
Capacity	Cooling	Btu/h	22,000	24,000	30,000	36,000	42,000
	Heating	Btu/h	24,000	27,000	34,000	40,000	47,000
Power supply		V/Ph/Hz	208/230/1/60				
Power consumption		W	106	133	262	262	262
Airflow volume(H/M/L)	m3h		1000/800/700	1250/1050/950	1800/1450/1250	2000/1600/1400	2000/1600/1400
	CFM		589/471/412	736/618/559	1059/853/736	1177/942/824	1177/942/824
MCA	A		1	1.2	1.7	1.7	1.7
MOP	A		15	15	15	15	15
ESP	In.W.G		0.36/0~0.8	0.36/0~0.8	0.36/0~0.8	0.36/0~0.8	0.36/0~0.8
Sound pressure level(H/M/L)		dB(A)	42/38/35	43/39/35	44/41/38	45/42/40	45/42/40
Connecting pipe	Liquid	In.	Φ3/8	Φ3/8	Φ3/8	Φ3/8	Φ3/8
	Gas	In.	Φ5/8	Φ5/8	Φ5/8	Φ5/8	Φ5/8
Drain pipe	External dia.	In.	Φ1	Φ1	Φ1	Φ1	Φ1
	Thickness	In.	3/32	3/32	3/32	3/32	3/32
Dimension (W×D×H)	Outline	In.	39-3/8×27-9/16×11-13/16	39-3/8×27-9/16×11-13/16	55-1/8×27-9/16×11-13/16	55-1/8×27-9/16×11-13/16	55-1/8×27-9/16×11-13/16
	Package	In.	47-7/16×32×14-3/16	47-7/16×32×14-3/16	63-1/16×32×14-3/8	63-1/16×32×14-3/8	63-1/16×32×14-3/8
Net weight/Gross weight		lbs	94/108	94/108	121/137	121/137	121/137
Loading quantity	40'GP	set	138	138	84	84	84
	40'HQ	set	161	161	98	98	98

Model			GMV-ND48PHS/B-T(U)	GMV-ND54PHS/B-T(U)	GMV-ND72PH/A-T(U)	GMV-ND96PH/A-T(U)
Capacity	Cooling	Btu/h	48,000	54,000	69,000	92,000
	Heating	Btu/h	54,000	60,000	77,000	103,000
Power supply		V/Ph/Hz	208/230/1/60			
Power consumption		W	287	287	800	900
Airflow volume(H/M/L)	m³/h		2350/1900/1650	2500/2000/1750	4000/3600/3200	4400/4000/3600
	CFM		1383/1118/971	1471/1177/1030	2355/2120/1885	2590/2355/2120
MCA	A		1.7	1.7	6.3	7.5
MOP	A		15	15	15	15
ESP	In.W.G		0.36/0~0.8	0.36/0~0.8	0.4/0.2~0.8	0.4/0.2~0.8
Sound pressure level(H/M/L)		dB(A)	46/43/41	47/44/42	54/52/49	55/52/50
Connecting pipe	Liquid	In.	Φ3/8	Φ3/8	Φ3/8	Φ3/8
	Gas	In.	Φ5/8	Φ3/4	Φ3/4	Φ7/8
Drain pipe	External dia.	In.	Φ1	Φ1	Φ1	Φ1
	Thickness	In.	3/32	3/32	1/16	1/16
Dimension (W×D×H)	Outline	In.	55-1/8×27-9/16×11-13/16	55-1/8×27-9/16×11-13/16	58-3/8×34-5/8×15-3/16	66-3/8×34-1/4×17-3/4
	Package	In.	66-1/16×31-13/16×14-3/8	66-1/16×31-13/16×14-3/8	62-1/8×34-3/4×18-5/8	70-3/8×38-7/8×22-7/8
Net weight/Gross weight		lbs	128/148	128/148	82/104	105/140
Loading quantity	40'GP	set	84	84	52	52
	40'HQ	set	98	98	65	52

General Static Pressure Duct Unit

Model		-	GMV-ND30PLS/C-T(U)	GMV-ND36PLS/C-T(U)	GMV-ND42PLS/C-T(U)	GMV-ND48PLS/C-T(U)
Capacity	Cooling	Btu/h	30,000	36,000	42,000	48,000
	Heating	Btu/h	34,000	40,000	47,000	54,000
Power supply		V/Ph/Hz	208/230/1/60	208/230/1/60	208/230/1/60	208/230/1/60
Power input		W	130	130	170	170
Airflow volume(H/M/L)	m3h		1500/1250/900	1700/1500/1100	2000/1700/1400	2000/1700/1400
	CFM		880/735/530	1000/880/650	1180/1000/825	1180/1000/825
MCA	A		3.0	3.0	3.0	3.0
MOP	A		15	15	15	15
ESP	In.W.G		0.2/0~0.32	0.2/0~0.32	0.2/0~0.32	0.2/0~0.32
Sound pressure level(H/M/L)		dB(A)	40/36/32	40/36/32	42/40/37	42/40/37
Connecting pipe	Liquid	In.	Φ3/8	Φ3/8	Φ3/8	Φ3/8
	Gas	In.	Φ5/8	Φ5/8	Φ5/8	Φ5/8
Drain pipe	External dia.	In.	Φ1	Φ1	Φ1	Φ1
	Thickness	In.	3/32	3/32	3/32	3/32
Dimension (W×D×H)	Outline	In.	52-3/4×25-13/16×10-1/4	52-3/4×25-13/16×10-1/4	52-3/4×25-13/16×10-1/4	52-3/4×25-13/16×10-1/4
	Package	In.	62-1/2×33-3/4×12-3/8	62-1/2×33-3/4×12-3/8	62-1/2×33-3/4×12-3/8	62-1/2×33-3/4×12-3/8
Net weight/Gross weight		lbs	100/120	100/120	102/122	102/122
Loading quantity	40 ' GP	set	105	105	105	105
	40 ' HQ	set	120	120	120	120

Low Static Pressure Duct Unit

Model			GMV-ND05PLS/B1-T(U)	GMV-ND07PLS/B1-T(U)	GMV-ND09PLS/B1-T(U)
Capacity	Cooling	Btu/h	5800	7500	9500
	Heating	Btu/h	6200	8500	10,500
Power supply		V/Ph/Hz	208/230/1/60		
Power consumption		W	28	28	28
Airflow volume(H/M/L)	m³/h		450/350/200	450/350/200	450/350/200
	CFM		265/206/118	265/206/118	265/206/118
MCA	A		1	1	1
MOP	A		15	15	15
ESP	In.W.G		0.06~0.12	0.06/0~0.12	0.06/0~0.12
Sound pressure level(H/M/L)		dB(A)	30/25/22	30/25/22	30/25/22
Connecting pipe	Liquid	In.	Φ1/4	Φ1/4	Φ1/4
	Gas	In.	Φ3/8	Φ3/8	Φ3/8
Drain pipe	External dia.	In.	Φ1	Φ1	Φ1
	Thickness	In.	3/32	3/32	3/32
Dimension (W×D×H)	Outline	In.	27-15/16×18-3/16×7-14/16	27-15/16×18-3/16×7-14/16	27-15/16×18-3/16×7-14/16
	Package	In.	40-4/16×22-5/16×10-10/16	40-4/16×22-5/16×10-10/16	40-4/16×22-5/16×10-10/16
Net weight/Gross weight		lbs	41/52	41/52	41/52
Loading quantity	40'GP	set	352	352	352
	40'HQ	set	396	396	396

Model			GMV-ND12PLS/B1-T(U)	GMV-ND14PLS/B1-T(U)	GMV-ND18PLS/B1-T(U)	GMV-ND24PLS/B1-T(U)
Capacity	Cooling	Btu/h	12,000	15,000	18,000	24,000
	Heating	Btu/h	13,500	17,000	20,000	27,000
Power supply		V/Ph/Hz	208/230/1/60			
Power consumption		W	37	40	55	55
Airflow volume(H/M/L)	m3h		550/400/300	750/550/400	850/700/550	1100/850/650
	CFM		324/235/177	441/324/235	500/412/324	647/500/383
MCA	A		1	1	1	1
MOP	A		15	15	15	15
ESP	In.W.G		0.06/0~0.12	0.06/0~0.12	0.06/0~0.12	0.06/0~0.12
Sound pressure level(H/M/L)		dB(A)	31/27/25	33/29/27	35/31/29	37/32/30
Connecting pipe	Liquid	In.	Φ1/4	Φ1/4	Φ3/8	Φ3/8
	Gas	In.	Φ1/2	Φ1/2	Φ5/8	Φ5/8
Drain pipe	External dia.	In.	Φ1	Φ1	Φ1	Φ1
	Thickness	In.	3/32	3/32	3/32	3/32
Dimension (W×D×H)	Outline	In.	27-15/16×18-3/16×7-14/16	39-12/16×18-3/16×7-14/16	39-12/16×18-3/16×7-14/16	51-9/16×18-3/16×7-14/16
	Package	In.	40-4/16×22-5/16×10-10/16	52-1/16×22-5/16×10-10/16	52-1/16×22-5/16×10-10/16	64×22-5/16×10-10/16
Net weight/Gross weight		lbs	42/53	55/68	55/68	68/83
Loading quantity	40'GP	set	352	272	272	224
	40'HQ	set	396	306	306	252

360 ° Air Discharge Cassette Indoor Unit

Model			GMV-ND07T/C-T(U)	GMV-ND09T/C-T(U)	GMV-ND12T/C-T(U)	GMV-ND15T/C-T(U)
Capacity	Cooling	Btu/h	7500	9500	12000	15000
	Heating	Btu/h	8500	10500	13500	17000
Power supply		V/Ph/Hz	208/230/1/60	208/230/1/60	208/230/1/60	208/230/1/60
Power consumption		W	40	40	40	40
Airflow volume(H/M/L)		m³/h	800/700/600	800/700/600	800/700/600	800/700/600
		CFM	470/410/355	470/410/355	470/410/355	470/410/355
MCA		A	0.8	0.8	0.8	0.8
MOP		A	15	15	15	15
Sound pressure level(H/M/L)		dB(A)	34/32/30	34/32/30	34/32/30	34/32/30
Connecting pipe	Liquid	In.	Φ 1/4	Φ 1/4	Φ 1/4	Φ 1/4
	Gas	In.	Φ 3/8	Φ 3/8	Φ 1/2	Φ 1/2
Drain pipe	External dia	In.	Φ 1	Φ 1	Φ 1	Φ 1
	Thickness	In.	3/32	3/32	3/32	3/32
Main body	Dimension (W×D×H)	Outline	In.	33-1/8×33 1/8×9 1/2	33-1/8×33 1/8×9 1/2	33-1/8×33 1/8×9 1/2
		Package	In.	37-7/8×37 7/8×12 3/4	37-7/8×37 7/8×12 3/4	37-7/8×37 7/8×12 3/4
	Net weight/Gross weight		lbs	64/82	64/82	64/82
Panel	Dimension (W×D×H)	Outline	In.	37-7/8×37 7/8×2 1/2	37-7/8×37 7/8×2 1/2	37-7/8×37 7/8×2 1/2
		Package	In.	40-7/8×40 5/8×4 3/8	40-7/8×40 5/8×4 3/8	40-7/8×40 5/8×4 3/8
	Net weight/Gross weight		lbs	13/21	13/21	13/21
Loading quantity	40 ' GP	set	120	120	120	120
	40 ' HQ	set	140	140	140	140

Model			GMV-ND36T/C-T(U)	GMV-ND42T/C-T(U)	GMV-ND48/C-T(U)	GMV-ND54T/C-T(U)
Capacity	Cooling	Btu/h	36000	42000	48000	54000
	Heating	Btu/h	40000	47000	54000	60000
Power supply		V/Ph/Hz	208/230/1/60	208/230/1/60	208/230/1/60	208/230/1/60
Power consumption		W	100	160	160	170
Airflow volume(H/M/L)		m³/h	1500/1200/1000	1650/1300/1100	1650/1300/1100	2000/1800/1430
		CFM	885/705/590	970/765/645	970/765/645	1180/1060/840
MCA		A	2.0	2.0	2.0	2.0
MOP		A	15	15	15	15
Sound pressure level(H/M/L)		dB(A)	43/39/37	45/41/39	45/41/39	51/48/42
Connecting pipe	Liquid	In.	Φ 3/8	Φ 3/8	Φ 3/8	Φ 3/8
	Gas	In.	Φ 5/8	Φ 5/8	Φ 5/8	Φ 3/4
Drain pipe	External dia	In.	Φ 1	Φ 1	Φ 1	Φ 1
	Thickness	In.	3/32	3/32	3/32	3/32
Main body	Dimension (W×D×H)	Outline	In.	33-1/8×33-1/8×11-3/8	33-1/8×33-1/8×11-3/8	33-1/8×33-1/8×11-3/8
		Package	In.	37-7/8×37-7/8×14-7/8	37-7/8×37-7/8×14-7/8	37-7/8×37-7/8×14-7/8
	Net weight/Gross weight		lbs	73/93	73/93	79/97
Panel	Dimension (W×D×H)	Outline	In.	37-7/8×37-7/8×2-1/2	37-7/8×37-7/8×2-1/2	37-7/8×37-7/8×2-1/2
		Package	In.	40-7/8×40-5/8×4-3/8	40-7/8×40-5/8×4-3/8	40-7/8×40-5/8×4-3/8
	Net weight/Gross weight		lbs	13/21	13/21	13/21
Loading quantity	40 ' GP	set	120	117	117	117
	40 ' HQ	set	140	135	135	135

Model			GMV-ND18T/C-T(U)	GMV-ND22T/C-T(U)	GMV-ND24T/C-T(U)	GMV-ND30T/C-T(U)
Capacity	Cooling	Btu/h	18000	22000	24000	30000
	Heating	Btu/h	20000	24000	27000	34000
Power supply		V/Ph/Hz	208/230/1/60	208/230/1/60	208/230/1/60	208/230/1/60
Power consumption		W	50	50	60	75
Airflow volume(H/M/L)		m³/h	950/850/750	950/850/750	1150/950/850	1250/1000/900
		CFM	560/500/440	560/500/440	675/560/500	735/590/530
MCA		A	1.0	1.0	1.0	2.0
MOP		A	15	15	15	15
Sound pressure level(H/M/L)		dB(A)	38/36/33	38/36/33	38/36/34	39/37/34
Connecting pipe	Liquid	In.	Φ 3/8	Φ 3/8	Φ 3/8	Φ 3/8
	Gas	In.	Φ 5/8	Φ 5/8	Φ 5/8	Φ 5/8
Drain pipe	External dia	In.	Φ 1	Φ 1	Φ 1	Φ 1
	Thickness	In.	3/32	3/32	3/32	3/32
Main body	Dimension (W×D×H)	Outline	In.	33-1/8×33-1/8×9-1/2	33-1/8×33-1/8×9-1/2	33-1/8×33-1/8×11-3/8
		Package	In.	37-7/8×37-7/8×12-3/4	37-7/8×37-7/8×12-3/4	37-7/8×37-7/8×14-7/8
	Net weight/Gross weight		lbs	64/82	64/82	73/93
Panel	Dimension (W×D×H)	Outline	In.	37-7/8×37-7/8×2-1/2	37-7/8×37-7/8×2-1/2	37-7/8×37-7/8×2-1/2
		Package	In.	40-7/8×40-5/8×4-3/8	40-7/8×40-5/8×4-3/8	40-7/8×40-5/8×4-3/8
	Net weight/Gross weight		lbs	13/21	13/21	13/21
Loading quantity	40 ' GP	set	120	120	120	120
	40 ' HQ	set	140	140	140	140

Model			GMV-ND07T/D-T(U)	GMV-ND09T/D-T(U)	GMV-ND12T/D-T(U)	GMV-ND15T/D-T(U)	GMV-ND18T/D-T(U)
Capacity	Cooling	Btu/h	7,500	9,500	12,000	15,000	18,000
	Heating	Btu/h	8,500	10,500	13,500	17,000	20,000
Power supply		V/Ph/Hz	208/230/1/60	208/230/1/60	208/230/1/60	208/230/1/60	208/230/1/60
Power consumption		W	30	30	30	30	40
Airflow volume(H/M/L)		m³/h	799/700/600	799/700/600	799/700/600	799/700/600	952/850/748
		CFM	470/412/353	470/412/353	470/412/353	470/412/353	560/500/440
MCA		A	0.7	0.7	0.7	0.7	0.7
MOP		A	15	15	15	15	15
Sound pressure level(H/M/L)		dB(A)	37/35/32	37/35/32	37/35/32	37/35/32	39/37/34
Connecting pipe	Liquid	In.	Φ 1/4	Φ 1/4	Φ 1/4	Φ 1/4	Φ 3/8
	Gas	In.	Φ 3/8	Φ 3/8	Φ 1/2	Φ 1/2	Φ 5/8
Drain pipe	External dia	In.	Φ 1	Φ 1	Φ 1	Φ 1	Φ 1
	Thickness	In.	3/32	3/32	3/32	3/32	3/32
Main body	Dimension (W×D×H)	Outline	In.	33-1/16×33-1/16×9-7/16	33-1/16×33-1/16×9-7/16	33-1/16×33-1/16×9-7/16	33-1/16×33-1/16×9-7/16
		Package	In.	36-3/4×36-3/4×11-1/2	36-3/4×36-3/4×11-1/2	36-3/4×36-3/4×11-1/2	36-3/4×36-3/4×11-1/2
	Net weight/Gross weight		lbs	50/62	50/62	50/62	50/62
Panel	Dimension (W×D×H)	Outline	In.	37-3/8×37-3/8×2-9/16	37-3/8×37-3/8×2-9/16	37-3/8×37-3/8×2-9/16	37-3/8×37-3/8×2-9/16
		Package	In.	40-5/8×40-1/8×4-3/8	40-5/8×40-1/8×4-3/8	40-5/8×40-1/8×4-3/8	40-5/8×40-1/8×4-3/8
	Net weight/Gross weight		lbs	13.2/20.9	13.2/20.9	13.2/20.9	13.2/20.9
Loading quantity	40 ' GP	set	139	139	139	139	139
	40 ' HQ	set	157	157	157	157	157

Model			GMV-ND22T/D-T(U)	GMV-ND24T/D-T(U)	GMV-ND30T/D-T(U)	GMV-ND36T/D-T(U)	GMV-ND42T/D-T(U)	GMV-ND48T/D-T(U)
Capacity	Cooling	Btu/h	22000	24000	30000	36000	42000	48000
	Heating	Btu/h	24000	27000	34000	40000	47000	54000
Power supply		V/Ph/Hz	208/230/1/60	208/230/1/60	208/230/1/60	208/230/1/60	208/230/1/60	208/230/1/60
Power consumption		W	40	50	75	75	105	105
Airflow volume(H/M/L)		m³/h	952/850/748	1250/1150/1000	1500/1200/1000	1500/1200/1000	1801/1450/1150	1801/1450/1150
		CFM	560/500/440	736/677/588	883/706/588	883/706/588	1060/853/677	1060/853/677
MCA		A	0.7	0.8	1.5	1.5	1.5	1.5
MOP		A	15	15	15	15	15	15
Sound pressure level(H/M/L)		dB(A)	39/37/34	39/37/34	44/40/34	44/40/34	46/41/35	46/41/35
Connecting pipe	Liquid	In.	Φ3/8	Φ3/8	Φ3/8	Φ3/8	Φ3/8	Φ3/8
	Gas	In.	Φ5/8	Φ5/8	Φ5/8	Φ5/8	Φ5/8	Φ5/8
Drain pipe	External dia.	In.	Φ1	Φ1	Φ1	Φ1	Φ1	Φ1
	Thickness	In.	3/32	3/32	3/32	3/32	3/32	3/32
Main body	Dimension (W×D×H)	Outline	In.	33-1/16×33-1/16×9-7/16	33-1/16×33-1/16×11-7/16	33-1/16×33-1/16×11-7/16	33-1/16×33-1/16×11-7/16	33-1/16×33-1/16×11-7/16
		Package	In.	36-3/4×36-3/4×11-1/2	36-3/4×36-3/4×13-9/16	36-3/4×36-3/4×13-9/16	36-3/4×36-3/4×13-9/16	36-3/4×36-3/4×13-9/16
	Net weight/Gross weight		lbs	50/62	55/67	55/67	55/67	55/67
Panel	Dimension (W×D×H)	Outline	In.	37-3/8×37-3/8×2-9/16	37-3/8×37-3/8×2-9/16	37-3/8×37-3/8×2-9/16	37-3/8×37-3/8×2-9/16	37-3/8×37-3/8×2-9/16
		Package	In.	40-5/8×40-1/8×4-3/8	40-5/8×40-1/8×4-3/8	40-5/8×40-1/8×4-3/8	40-5/8×40-1/8×4-3/8	40-5/8×40-1/8×4-3/8
	Net weight/Gross weight		lbs	13.2/20.9	13.2/20.9	13.2/20.9	13.2/20.9	13.2/20.9
Loading quantity		40´ GP	set	139	117	117	117	117
		40´ HQ	set	157	135	135	135	135

Fresh Air Ventilation Kit

Model		-	XF150A-T ¹
Fresh air intake volume		%	10%
Dimension (W×D×H)	Outline	In.	32-7/8×32-7/8×2-3/8
	Package	In.	34-9/16×34-9/16×7-3/32
Dimension of the connection		In.	5-11/16
		Pcs	2
Net weight/Gross weight		lbs	6.0/17.0

Note:This model can be matched with 360 ° air discharge cassette indoor units of GMV-ND**T/C-T(U) series only.

360 ° Air Discharge Compact Cassette Unit

Model			GMV-ND05T/E-T(U)	GMV-ND07T/E-T(U)	GMV-ND09T/E-T(U)	GMV-ND12T/E-T(U)	GMV-ND15T/E-T(U)	GMV-ND18T/E-T(U)
Capacity	Cooling	Btu/h	5800	7500	9500	12,000	15,000	18,000
	Heating	Btu/h	6200	8500	10,500	13,500	17,000	20,000
Power supply		V/Ph/Hz	208/230/1/60					
Power input		W	35	35	35	46	46	46
Airflow volume(H/M/L)		m³/h	460/420/370	500/460/370	570/480/420	620/550/480	730/650/560	730/650/560
		CFM	270/250/220	295/270/220	335/280/250	365/325/280	430/385/330	430/385/330
MCA		A	0.7	0.7	0.7	0.8	0.8	0.8
MOP		A	15	15	15	15	15	15
Sound pressure level(H/M/L)		dB(A)	33/30/25	36/31/25	36/33/28	39/37/35	43/41/39	43/41/39
Connecting pipe	Liquid	In.	Φ1/4	Φ1/4	Φ1/4	Φ1/4	Φ1/4	Φ3/8
	Gas	In.	Φ3/8	Φ3/8	Φ3/8	Φ1/2	Φ1/2	Φ5/8
Drain pipe	External dia.	In.	Φ1	Φ1	Φ1	Φ1	Φ1	Φ1
	Thickness	In.	3/32	3/32	3/32	3/32	3/32	3/32
Main body	Dimension (W×D×H)	Outline	In.	22-7/16×22-7/16 ×10-7/16	22-7/16×22-7/16 ×10-7/16	22-7/16×22-7/16 ×10-7/16	22-7/16×22-7/16 ×10-7/16	22-7/16×22-7/16 ×10-7/16
		Package	In.	27-1/2×25-11/16 ×11-5/8	27-1/2×25-11/16 ×11-5/8	27-1/2×25-11/16 ×11-5/8	27-1/2×25-11/16 ×11-5/8	27-1/2×25-11/16 ×11-5/8
	Net weight/Gross weight		lbs	38.6/49.6	38.6/49.6	38.6/49.6	38.6/49.6	38.6/49.6
Panel	Dimension (W×D×H)	Outline	In.	24-3/8×24-3/8×1-7/8	24-3/8×24-3/8×1-7/8	24-3/8×24-3/8×1-7/8	24-3/8×24-3/8×1-7/8	24-3/8×24-3/8×1-7/8
		Package	In.	27-5/8×27-5/8×5	27-5/8×27-5/8×5	27-5/8×27-5/8×5	27-5/8×27-5/8×5	27-5/8×27-5/8×5
	Net weight/Gross weight		lbs	6.6/10	6.6/10	6.6/10	6.6/10	6.6/10
Loading quantity		40' GP	set	378	378	378	378	378
		40' HQ	set	432	432	432	432	432

2-Way Cassette Unit

Model			GMV-ND09TS/B-T(U)	GMV-ND12TS/B-T(U)	GMV-ND15TS/B-T(U)	GMV-ND18TS/B-T(U)	GMV-ND24TS/B-T(U)
Capacity	Cooling	Btu/h	9500	12000	15000	18000	24000
	Heating	Btu/h	10500	13500	17000	20000	27000
Power supply		V/Ph/Hz	208/230/1/60				
Power consumption		W	20	20	30	30	55
Airflow volume(H/M/L)	m³/h		671/616/513	671/616/513	715/616/513	764/709/676	816/745/660
	CFM		395/363/302	395/363/302	421/363/302	450/417/398	480/438/388
MCA		A	1	1	1	1	1
MOP		A	15	15	15	15	15
Sound pressure level(H/M/L)		dB(A)	33/31/28	33/31/28	35/31/28	37/35/32	39/37/34
Connecting pipe	Liquid	In.	Φ1/4	Φ1/4	Φ1/4	Φ3/8	Φ3/8
	Gas	In.	Φ3/8	Φ1/2	Φ1/2	Φ5/8	Φ5/8
Drain pipe	External dia.	In.	Φ1	Φ1	Φ1	Φ1	Φ1
	Thickness	In.	3/32	3/32	3/32	3/32	3/32
Main body	Dimension (W×D×H)	Outline	In.	31-1/8×24-13/16×11	31-1/8×24-13/16×11	31-1/8×24-13/16×11	31-1/8×24-13/16×11
		Package	In.	40-5/8×29-1/8×14-3/8	40-5/8×29-1/8×14-3/8	40-5/8×29-1/8×14-3/8	40-5/8×29-1/8×14-3/8
	Net weight/Gross weight		lbs	56.2/73.9	56.2/73.9	56.2/73.9	57.3/76.1
Panel	Dimension (W×D×H)	Outline	In.	43-5/16×28×1-3/32	43-5/16×28×1-3/32	43-5/16×28×1-3/32	43-5/16×28×1-3/32
		Package	In.	48-7/16×33-3/16×5-1/8	48-7/16×33-3/16×5-1/8	48-7/16×33-3/16×5-1/8	48-7/16×33-3/16×5-1/8
	Net weight/Gross weight		lbs	13.2/23.2	13.2/23.2	13.2/23.2	13.2/23.2
Loading quantity		40' GP	set	144	144	144	144
		40' HQ	set	166	166	166	166

1-Way Cassette Unit

Model			GMV-ND07TD/A-T(U)	GMV-ND09TD/A-T(U)	GMV-ND12TD/A-T(U)
Capacity	Cooling	Btu/h	7500	9500	12,000
	Heating	Btu/h	8500	10,500	13,500
Power supply		V/Ph/Hz	208/230/1/60		
Power consumption		W	30	30	30
Airflow volume(H/M/L)	m³/h		600/500/450	600/500/450	600/500/450
	CFM		353/294/265	353/294/265	353/294/265
MCA		A	0.375	0.375	0.375
MOP		A	15	15	15
Sound pressure level(H/M/L)		dB(A)	36/32/28	36/32/28	36/32/28
Connecting pipe	Liquid	In.	Φ1/4	Φ1/4	Φ1/4
	Gas	In.	Φ3/8	Φ3/8	Φ1/2
Drain pipe	External dia.	In.	Φ1	Φ1	Φ1
	Thickness	In.	3/32	3/32	3/32
Main body	Dimension (W×D×H)	Outline	In.	38-7/8×15-3/16×7	38-7/8×15-3/16×7
		Package	In.	51-1/2×19-3/4×12-3/16	51-1/2×19-3/4×12-3/16
	Net weight/Gross weight		lbs	44/60	44/60
Panel	Dimension (W×D×H)	Outline	In.	47-1/4×18-1/8×2-3/16	47-1/4×18-1/8×2-3/16
		Package	In.	49-13/16×21-1/8×4-3/4	49-13/16×21-1/8×4-3/4
	Net weight/Gross weight		lbs	9.3/13.2	9.3/13.2
Loading quantity	40 ' GP	set	138	138	138
	40 ' HQ	set	138	138	138

Wall-mounted Type

Model		-	GMV-ND06G/B4B-T(U)	GMV-ND07G/B4B-T(U)	GMV-ND09G/B4B-T(U)	GMV-ND12G/B4B-T(U)
Capacity	Cooling	Btu/h	6000	7500	9500	12000
	Heating	Btu/h	6000	8500	10,500	13,500
Power supply		V/Ph/Hz	208/230/1/60	208/230/1/60	208/230/1/60	208/230/1/60
Power input		W	20	20	20	25
Airflow volume(H/M/L)	m³/h		500/440/300	500/440/300	500/440/300	630/460/320
	CFM		294/259/177	294/259/177	294/259/177	371/271/188
MCA		A	1	1	1	1
MOP		A	15	15	15	15
Sound pressure level(H/M/L)		dB(A)	35/33/30	35/33/30	35/33/30	38/35/31
Connecting pipe	Liquid	In.	Φ1/4	Φ1/4	Φ1/4	Φ1/4
	Gas	In.	Φ3/8	Φ3/8	Φ3/8	Φ1/2
Drain pipe	External dia.	In.	Φ13/16	Φ13/16	Φ13/16	Φ13/16
	Thickness	In.	1/16	1/16	1/16	1/16
Dimension (W×D×H)	Outline	In.	33-1/4×8-1/4×11-3/8			
	Package	In.	38-7/16×11-1/16×14-15/16			
Net weight/Gross weight		lbs	23.5/27.5			
Loading quantity	40´ GP	set	576			
	40´ HQ	set	576			

Model		-	GMV-ND14G/B4B-T(U)	GMV-ND18G/B4B-T(U)	GMV-ND24G/B4B-T(U)	GMV-ND30G/B4B-T(U)	GMV-ND36G/B4B-T(U)
Capacity	Cooling	Btu/h	15,000	18,000	24,000	30,000	32,500
	Heating	Btu/h	17,000	20,000	25,500	34,000	36,000
Power supply		V/Ph/Hz	208/230/1/60	208/230/1/60	208/230/1/60	208/230/1/60	208/230/1/60
Power input		W	35	50	65	80	100
Airflow volume(H/M/L)	m³/h		850/580/500	1100/850/650	1200/850/650	1550/1050/800	1650/1100/900
	CFM		500/341/294	647/500/383	706/500/383	912/618/471	971/647/530
MCA		A	1	1	1	1	1
MOP		A	15	15	15	15	15
Sound pressure level(H/M/L)		dB(A)	43/40/37	43/41/37	44/41/37	49/46/40	52/48/40
Connecting pipe	Liquid	In.	Φ1/4	Φ3/8	Φ3/8	Φ3/8	Φ3/8
	Gas	In.	Φ1/2	Φ5/8	Φ5/8	Φ5/8	Φ5/8
Drain pipe	External dia.	In.	Φ13/16	Φ13/16	Φ13/16	Φ13/16	Φ13/16
	Thickness	In.	1/16	1/16	1/16	1/16	1/16
Dimension (W×D×H)	Outline	In.	38-3/16×8-13/16×11-13/16	42-7/16×9-11/16×12-13/16		53-1/8×10-3/16×12-13/16	
	Package	In.	43-1/8×12-5/8×15-1/16	47-3/8×13-3/4×16-1/4		58-7/8×14-1/2×16-9/16	
Net weight/Gross weight		lbs	27.5/34.5	35.5/42		44/53	
Loading quantity	40´ GP	set	448	282		228	
	40´ HQ	set	512	329		266	

Console

Model		-	GMV-ND07C/A-T(U)	GMV-ND09C/A-T(U)	GMV-ND12C/A-T(U)	GMV-ND18C/A-T(U)
Capacity	Cooling	Btu/h	7500	9500	12,000	18,000
	Heating	Btu/h	8500	11,000	13,500	20,000
Power supply		V/Ph/Hz	208/230/1/60			
Power input		W	15	15	20	40
Airflow volume(H/M/L)	m³/h		400/320/270	400/320/270	480/400/310	680/600/500
	CFM		235/188/159	235/188/159	282/235/182	400/353/294
Sound pressure level(H/M/L)		dB(A)	38/33/27	38/33/27	40/37/32	46/43/39
Connecting pipe	Liquid	In.	Φ1/4	Φ1/4	Φ1/4	Φ1/4
	Gas	In.	Φ3/8	Φ3/8	Φ1/2	Φ1/2
Drain pipe	External dia.	In.	Φ1-1/9	Φ1-1/9	Φ1-1/9	Φ1-1/9
	Thickness	In.	1/25	1/25	1/25	1/25
Dimension (W×D×H)	Outline	In.	27-9/16×8-1/2×23-5/8	27-9/16×8-1/2×23-5/8	27-9/16×8-1/2×23-5/8	27-9/16×8-1/2×23-5/8
	Package	In.	31×11-1/8×30-5/8	31×11-1/8×30-5/8	31×11-1/8×30-5/8	31×11-1/8×30-5/8
Net weight/Gross weight		lbs	35/42	35/42	35/42	35/42
Loading quantity	40´ GP	set	348	348	348	348
	40´ HQ	set	348	348	348	348

Floor Ceiling Type

Model			GMV-ND09ZD/B-T(U)*	GMV-ND12ZD/B-T(U)*	GMV-ND15ZD/B-T(U)*	GMV-ND18ZD/B-T(U)*	GMV-ND24ZD/B-T(U)*
Capacity	Cooling	Btu/h	9,500	12,000	15,000	18,000	24,000
	Heating	Btu/h	10,500	13,500	17,000	20,000	27,000
Power supply		V/Ph/Hz	208/230/1/60				
Power consumption		W	35	35	55	55	80
Airflow volume(H/M/L)	m³/h		600/500/450	600/500/450	750/650/600	750/650/600	1350/1200/1050
	CFM		353/294/265	353/294/265	441/383/353	441/383/353	794/706/618
MCA		A	1	1	1	1	1
MOP		A	15	15	15	15	15
Sound pressure level(H/M/L)		dB(A)	36/32/29	36/32/29	42/39/36	42/39/36	44/41/38
Connecting pipe	Liquid	In.	Φ1/4	Φ1/4	Φ1/4	Φ3/8	Φ3/8
	Gas	In.	Φ3/8	Φ1/2	Φ1/2	Φ5/8	Φ5/8
Drian pipe	External dia.	In.	Φ11/16	Φ11/16	Φ11/16	Φ11/16	Φ11/16
	Thickness	In.	1/16	1/16	1/16	1/16	1/16
Dimension (W×D×H)	Outline	In.	34-1/4×26-3/16×9-5/16	34-1/4×26-3/16×9-5/16	34-1/4×26-3/16×9-5/16	34-1/4×26-3/16×9-5/16	47-1/4×26-3/16×9-5/16
	Package	In.	38-5/16×30-5/16×11-13/16	38-5/16×30-5/16×11-13/16	38-5/16×30-5/16×11-13/16	38-5/16×30-5/16×11-13/16	51-5/16×30-5/16×11-13/16
Net weight/Gross weight		lbs	52.9/63.9	52.9/63.9	55.1/66.2	55.1/66.2	70.6/83.8
Loading quantity	40´ GP	set	252	252	252	252	189
	40´ HQ	set	288	288	288	288	216

Model			GMV-ND30ZD/B-T(U)*	GMV-ND36ZD/B-T(U)*	GMV-ND42ZD/B-T(U)*	GMV-ND48ZD/B-T(U)*	GMV-ND54ZD/B-T(U)*
Capacity	Cooling	Btu/h	30,000	36,000	42,000	48,000	54,000
	Heating	Btu/h	33,000	40,000	47,000	54,000	60,000
Power supply		V/Ph/Hz	208/230/1/60				
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
	CFM		912/824/736	1059/942/824	1059/942/824	1177/1030/942	1265/1089/971
MCA		A	1	1	1	1	1
MOP		A	15	15	15	15	15
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	In.	Φ3/8	Φ3/8	Φ3/8	Φ3/8	Φ3/8
	Gas	In.	Φ5/8	Φ5/8	Φ5/8	Φ5/8	Φ3/4
Drian pipe	External dia.	In.	Φ11/16	Φ11/16	Φ11/16	Φ11/16	Φ11/16
	Thickness	In.	1/16	1/16	1/16	1/16	1/16
Dimension (W×D×H)	Outline	In.	47-1/4×26-3/16×9-5/16	61-13/16×26-3/16×9-5/16	61-13/16×26-3/16×9-5/16	61-13/16×26-3/16×9-5/16	61-13/16×26-3/16×9-5/16
	Package	In.	51-5/16×30-5/16×11-13/16	65-11/16×30-5/16×11-13/16	65-11/16×30-5/16×11-13/16	65-11/16×30-5/16×11-13/16	65-11/16×30-5/16×11-13/16
Net weight/Gross weight		lbs	72.8/86.0	90.4/105.8	90.4/105.8	94.8/110.3	94.8/110.3
Loading quantity	40´ GP	set	189	147	147	147	147
	40´ HQ	set	216	168	168	168	168

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

Air Handler

Model			GMV-ND09A/B-T(U)	GMV-ND12A/B-T(U)	GMV-ND18A/B-T(U)	GMV-ND24A/B-T(U)	GMV-ND30A/B-T(U)
Capacity	Cooling	Btu/h	9,500	12,000	18,000	24,000	30,000
	Heating	Btu/h	10,500	13,500	20,000	27,000	34,000
Power supply		V/Ph/Hz	208/230/1/60				
Power input		W	60	60	180	180	180
Airflow volume(H/M/L)		m³/h	680/578/476	714/612/510	1444/1291/1088	1495/1359/1172	1546/1393/1206
		CFM	400/340/280	420/360/300	850/760/640	880/800/690	910/820/710
MCA	A		5	5	5	5	5
MOP	A		15	15	15	15	15
ESP	In.W.G		0.2/0 ~ 1	0.2/0 ~ 1	0.2/0 ~ 1	0.2/0 ~ 1	0.2/0 ~ 1
Sound pressure level(H/M/L)		dB(A)	33/32/31	34/33/32	42/41/40	43/42/40	44/43/41
Connecting pipe	Liquid	In.	Φ1/4	Φ1/4	Φ3/8	Φ3/8	Φ3/8
	Gas	In.	Φ3/8	Φ1/2	Φ5/8	Φ5/8	Φ5/8
Drain pipe		Thread specification	-	G1	G1	G1	G1
Dimension (W × D × H)	Outline	In.	18-1/8x21-1/4x43-1/2	18-1/8x21-1/4x43-1/2	18-1/8x21-1/4x43-1/2	18-1/8x21-1/4x43-1/2	18-1/8x21-1/4x43-1/2
	Package	In.	20-3/8x24-3/8x46-1/8	20-3/8x24-3/8x46-1/8	20-3/8x24-3/8x46-1/8	20-3/8x24-3/8x46-1/8	20-3/8x24-3/8x46-1/8
Net weight/Gross weight		lbs	119/128	119/128	128/137	128/137	128/137
Loading quantity	40 ' GP	set	168	168	168	168	168
	40 ' HQ	set	168	168	168	168	168

Fresh Air Processing Unit

Model			GMV-NDX42P/A-T(U)	GMV-NDX48P/A-T(U)	GMV-NDX54P/A-T(U)	GMV-NDX72P/A-T(U)	GMV-NDX96P/A-T(U)
Capacity	Cooling	Btu/h	42,000	48,000	54,000	72,000	96,000
	Heating	Btu/h	29,000	34,000	45,000	55,000	68,000
Power supply		V/Ph/Hz	208/230/1/60				
Power consumption		W	350	350	760	760	860
Airflow volume(H/M/L)		m³/h	1200/1000~2000	1200/1000~2000	2000/1500~3000	2000/1500~3000	2500/2000~3500
		CFM	706/589~1177	706/589~1177	1177/883~1766	1177/883~1766	1471/1177~2060
MCA	A		1.7	1.7	6.3	6.3	6.3
MOP	A		15	15	15	15	15
ESP	In.W.G		0.6/0.2~0.8	0.6/0.2~0.8	0.8/0.2~1.2	0.8/0.2~1.2	0.8/0.2~1.2
Sound pressure level(H/M/L)		dB(A)	40~50	40~50	45~54	45~54	47~54
Connecting pipe	Liquid	In.	Φ3/8	Φ3/8	Φ3/8	Φ3/8	Φ3/8
	Gas	In.	Φ5/8	Φ5/8	Φ3/4	Φ3/4	Φ7/8
Drain pipe	External dia.	In.	Φ1	Φ1	Φ1	Φ1	Φ1
	Thickness	In.	3/32	3/32	1/16	1/16	1/16
Dimension (W × D × H)	Outline	In.	55-1/8 × 27-9/16 × 11-13/16	55-1/8 × 27-9/16 × 11-13/16	58-3/8 × 31-1/8 × 15-3/16	58-3/8 × 31-1/8 × 15-3/16	58-3/8 × 31-1/8 × 15-3/16
	Package	In.	63 × 32 × 14-3/8	63 × 32 × 14-3/8	62-1/8 × 34-3/4 × 18-5/8	62-1/8 × 34-3/4 × 18-5/8	62-1/8 × 34-3/4 × 18-5/8
Net weight/Gross weight		lbs	119/134	119/134	181/229	181/229	181/229
Loading quantity	40 ' GP	set	84	84	52	52	52
	40 ' HQ	set	98	98	65	65	65

AHU KIT

Model			GMV-ND36A/B-T(U)	GMV-ND42A/B-T(U)	GMV-ND48A/B-T(U)	GMV-ND54A/B-T(U)	GMV-ND60A/B-T(U)
Capacity	Cooling	Btu/h	36,000	42,000	48,000	54,000	60,000
	Heating	Btu/h	40,000	47,000	54,000	60,000	66,000
Power supply		V/Ph/Hz	208/230/1/60				
Power consumption		W	430	430	770	770	770
Airflow volume(H/M/L)		m³/h	2090/1869/1648	2141/1903/1699	3059/2719/2549	3059/2719/2549	3093/2804/2600
		CFM	1230/1100/970	1260/1120/1000	1800/1600/1500	1800/1600/1500	1820/1650/1530
MCA	A		5.0	5.0	8.7	8.7	8.7
MOP	A		15	15	15	15	15
ESP	In.W.G		0.2/0 ~ 1	0.2/0 ~ 1	0.2/0 ~ 1	0.2/0 ~ 1	0.2/0 ~ 1
Sound pressure level(H/M/L)		dB(A)	45/43/42	46/44/43	50/49/48	50/49/48	51/50/49
Connecting pipe	Liquid	In.	Φ3/8	Φ3/8	Φ3/8	Φ3/8	Φ3/8
	Gas	In.	Φ5/8	Φ5/8	Φ5/8	Φ3/4	Φ3/4
Drain pipe		Thread specification	In.	G1	G1	G1	G1
Dimension (W × D × H)	Outline	In.	21-1/4x21-1/4x48-1/4	18-1/8x21-1/4x43-1/2	24-3/4x21-1/4x57	24-3/4x21-1/4x57	24-3/4x21-1/4x57
	Package	In.	26x23-3/4x50-3/8	26x23-3/4x50-3/8	27-1/4x26x59-3/8	27-1/4x26x59-3/8	27-1/4x26x59-3/8
Net weight/Gross weight		lbs	159/170	159/170	198/216	198/216	198/216
Loading quantity	40 ' GP	set	57	57	54	54	54
	40 ' HQ	set	114	114	54	54	54

Model			GMV-N12U/C-T(U)		GMV-N24U/C-T(U)			GMV-N48U/C-T(U)				GMV-N96U/C-T(U)				GMV-N192U/C-T(U)		
Defaulted capacity of ex-factory	Capacity		12		24			48				96				192		
	Cooling	Btu/h	12,000		24,000			48,000				96,000				192,000		
	Heating	Btu/h	13,500		27,000			54,000				108,000				216,000		
Adjustable capacity	Capacity		9	12	15	18	24	30	36	48	60	72	96	120	144	168	192	288
	Cooling	Btu/h	9500	12,000	15,000	18,000	24,000	30,000	36,000	48,000	60,000	72,000	96,000	120,000	144,000	168,000	192,000	288,000
	Heating	Btu/h	10,500	13,500	17,000	20,000	27,000	34,000	40,000	54,000	67,000	81,000	108,000	135,000	162,000	189,000	216,000	324,000
Power input		W	8.0		8.0			8.0				8.0				8.0		
Power Supply		V/Ph/Hz	208/230/1/60		208/230/1/60			208/230/1/60				208/230/1/60				208/230/1/60		
Size of connection pipe	AHU-KIT		In.	Φ1/4	Φ1/4	Φ3/8	Φ3/8	Φ3/8	Φ3/8	Φ3/8	Φ3/8	Φ3/8	Φ3/8	Φ3/8	Φ3/8	Φ5/8	Φ5/8	Φ5/8
	Air handling unit	Liquid pipe	In.	Φ1/4	Φ1/4	Φ1/4	Φ3/8	Φ3/8	Φ3/8	Φ3/8	Φ3/8	Φ3/8	Φ3/8	Φ1/2	Φ1/2	Φ5/8	Φ5/8	Φ3/4
		Gas pipe	In.	Φ3/8	Φ1/2	Φ1/2	Φ5/8	Φ5/8	Φ5/8	Φ5/8	Φ5/8	Φ3/4	Φ3/4	Φ7/8	Φ1-1/8	Φ1-1/8	Φ1-1/8	Φ1-3/8
	Connection method		Brazing Connection		Brazing Connection			Brazing Connection				Brazing Connection				Brazing Connection		
Outline dimension (W×D×H)	EXV box	In.	8×12-7/8×3-3/8		8×12-7/8×3-3/8			8×12-7/8×3-3/8				8×12-7/8×3-3/8				9-5/8×19-5/8×4-3/4		
	Control box	In.	13-1/8×11-1/8×4-3/8		13-1/8×11-1/8×4-3/8			13-1/8×11-1/8×4-3/8				13-1/8×11-1/8×4-3/8				13-1/8×11-1/8×4-3/8		
Package dimension		In.	21-1/4×18-1/8×9-5/8		21-1/4×18-1/8×9-5/8			21-1/4×18-1/8×9-5/8				21-1/4×18-1/8×9-5/8				29-7/8×25-3/8×7		
Net weight		lbs	22		23			23				23				29		
Gross weight		lbs	29		30			30				30				39		
Loading	40 ' GP	set	990		990			990				990				702		
	40 ' HP	set	1100		1100			1100				1100				756		

Control System



Control System



VRF Selector Ultimate

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

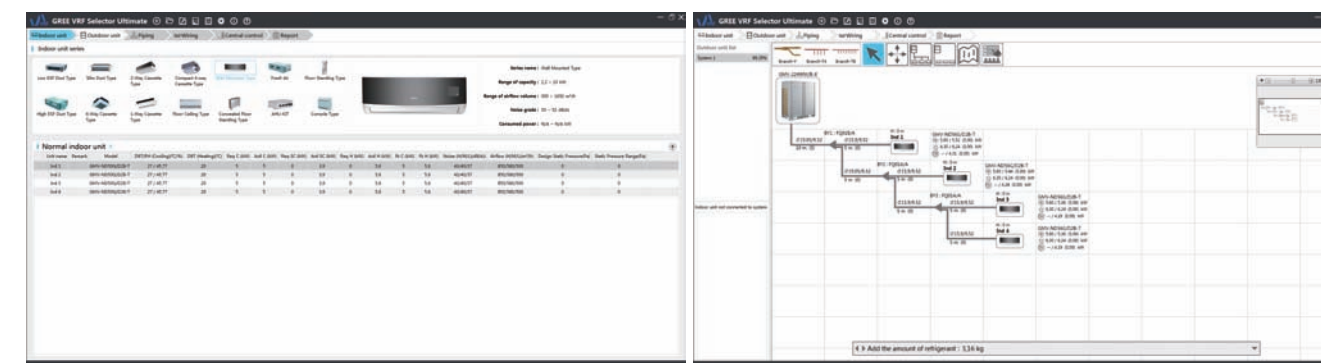
Intelligent Model Selection

- 1) The system will take multiple aspects into consideration to provide clients with the optimal plan by combining performance, noise, comfort, reliability, cost, etc.
- 2) It can calculate according to user demand, ambient temperature, using location, static pressure, etc. to recommend the suitable IDU, ODU and pipe arrangement. It will check by combining the collocation rate, pipe arrangement, etc. of the whole system, and automatically adjust the unit model to get the optimal model selection plan.
- 3) Using habit and using standard differs in different regions. The intelligent model selection system will conduct a special process according to metric/inch system, unit parameters, different language systems in different regions.
- 4) It will conduct automatic checking for the whole system. If anyone of the conditions cannot satisfy the user demand, the software will automatically calculate to find a suitable unit and pipe arrangement.



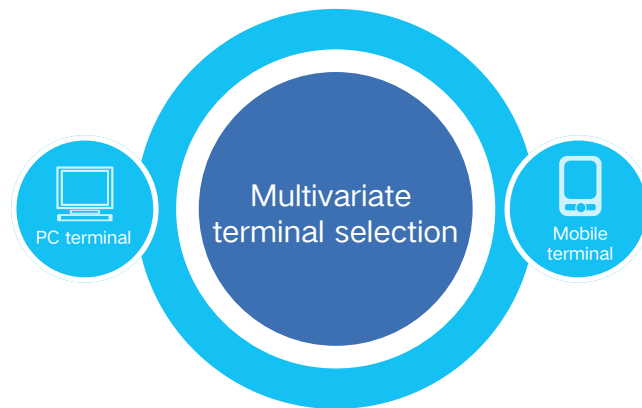
Fast Model Selection

The software can provide users with audio-visual model building experience via a visible modeling method. Through the intelligent fast connection, multiple parts of VRF can be correctly and fast linked, which can greatly improve the modeling efficiency.



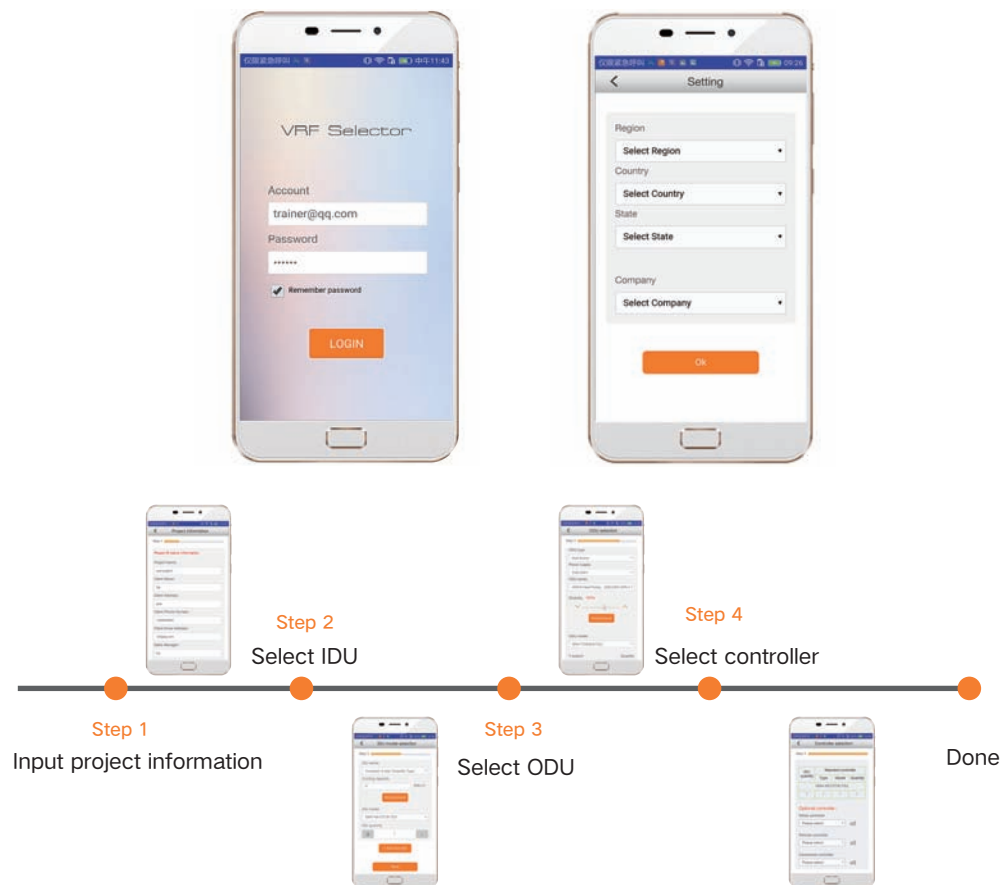
■ Multivariate Model Selection

The model selection system will launch multiple model selection terminal applications around the core of model selection parameter data according to different user groups. The model selection data can achieve data resource sharing on the basis of a cloud server, which can provide different terminal users with standard and professional model selection service.



Mobile APP model selection

The mobile APP model selection user terminal, which is developed by using cross-platform technology and can be embedded in other APP to use. It supports multiple units for selection and two basic languages: Chinese and English, making the software more user-friendly.

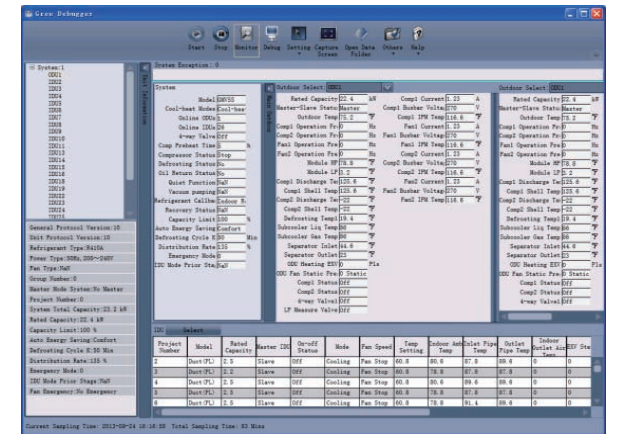


■ Intelligent Debugging Software

GMV5 offers intelligent debugging software to the end-users for faster construction needs.

Monitoring functions

- Fully control the operation status of each device of the system;
- Hover the mouse over the parameter to display its remarks.
- The online devices will be displayed in a tree structure;
- Display the information of the air conditioner in divided regions;
- Each display region can be moved or concealed;
- Display updated status of units in real-time;



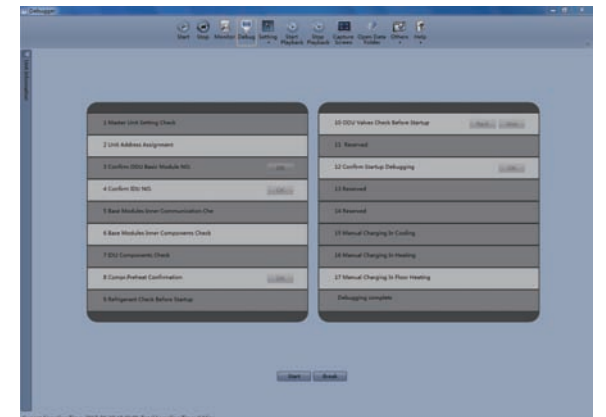
Control functions

- Control the operation of the unit as you like;
- Comprehensive control of outdoor unit, indoor unit, water tank, hydro box, etc.;
- Real-time display of current status or status after being controlled;
- Both single control and group control are available.



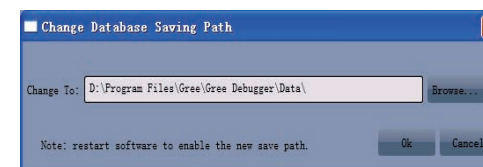
Project debugging functions

- One-click and automatic project debugging;
- Project debugging is arranged step by step from left to right;
- Manual intervention and skipping of some debugging phases are available.
- Green icons will be displayed for the items finishing debugging; red icons will be displayed for the items having debugged exception; light yellow icons display debugging information;

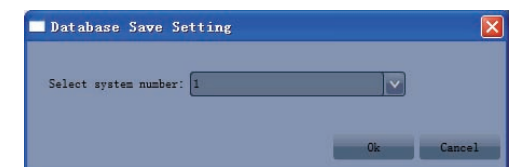


Auto data-saving function

Data will be saved automatically. The database saving path can be changed or data documents can be generated repeatedly.



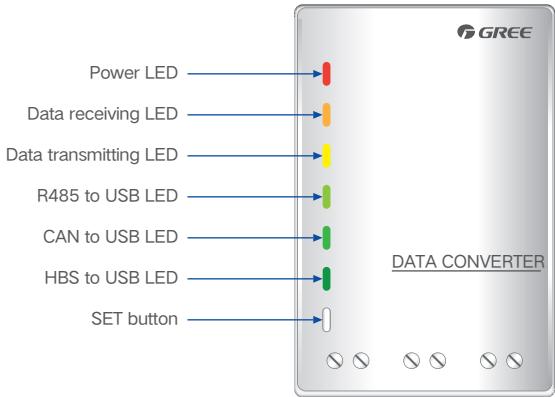
Step 1 : Change Database Saving Path



Step 2: Database Save Setting

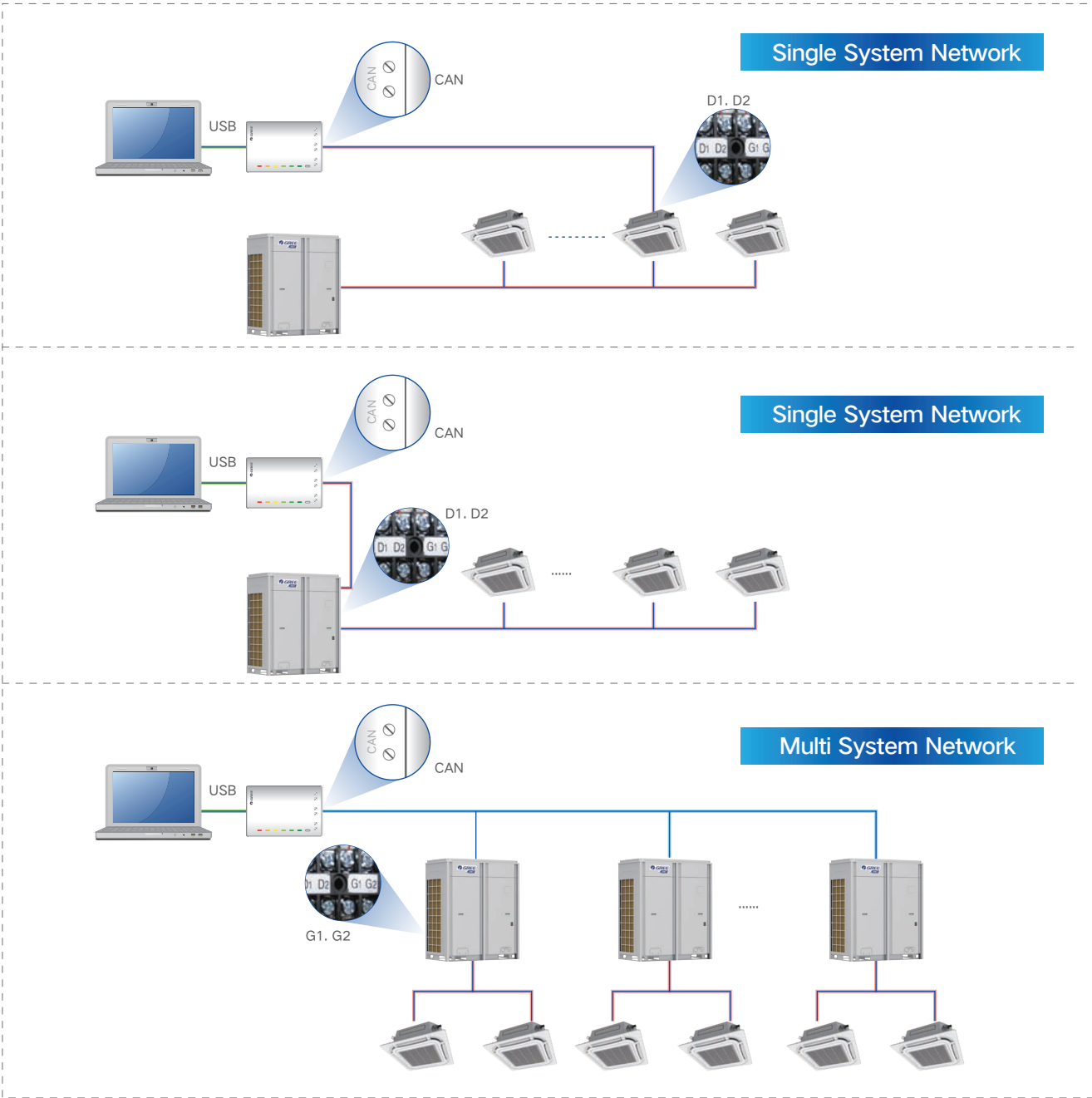
USB data converter

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



Auto direction of connection way

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



Building Protocol Gateway

Modbus Gateway

Name	Model	Key Parameters	Application	Photo
VRF Protocol Gateway	ME30-24/D1 (BM)	Capacity: 255 sets of indoor unit (within 16 systems) Protocol: Modbus RTU、Modbus TCP	It is generally used in large buildings such as office buildings, commercial streets, hospitals, and rail transits to connect to BAS to achieve centralized management of air conditioner.	
Modbus Gateway (Mini)	ME30-24/E6 (M)	Capacity: 128 sets of indoor units (within 16 systems) Expansion port: No Protocol: Modbus RTU	It is generally used for small and medium-sized projects such as villas and apartment buildings. It is used for docking with BAS systems or smart home systems. Since there is no I/O interface, the capacity is small, and it is a low-cost solution.	
H2M Gateway	ME31-33/EH1 (M)	Capacity: 1-16 sets of indoor units Expansion port: No Protocol: Modbus RTU	Generally, it is an intelligent solution for hotel and household environment. The indoor unit directly connects to the controller of the hotel room RCU or the residential smart home system.	

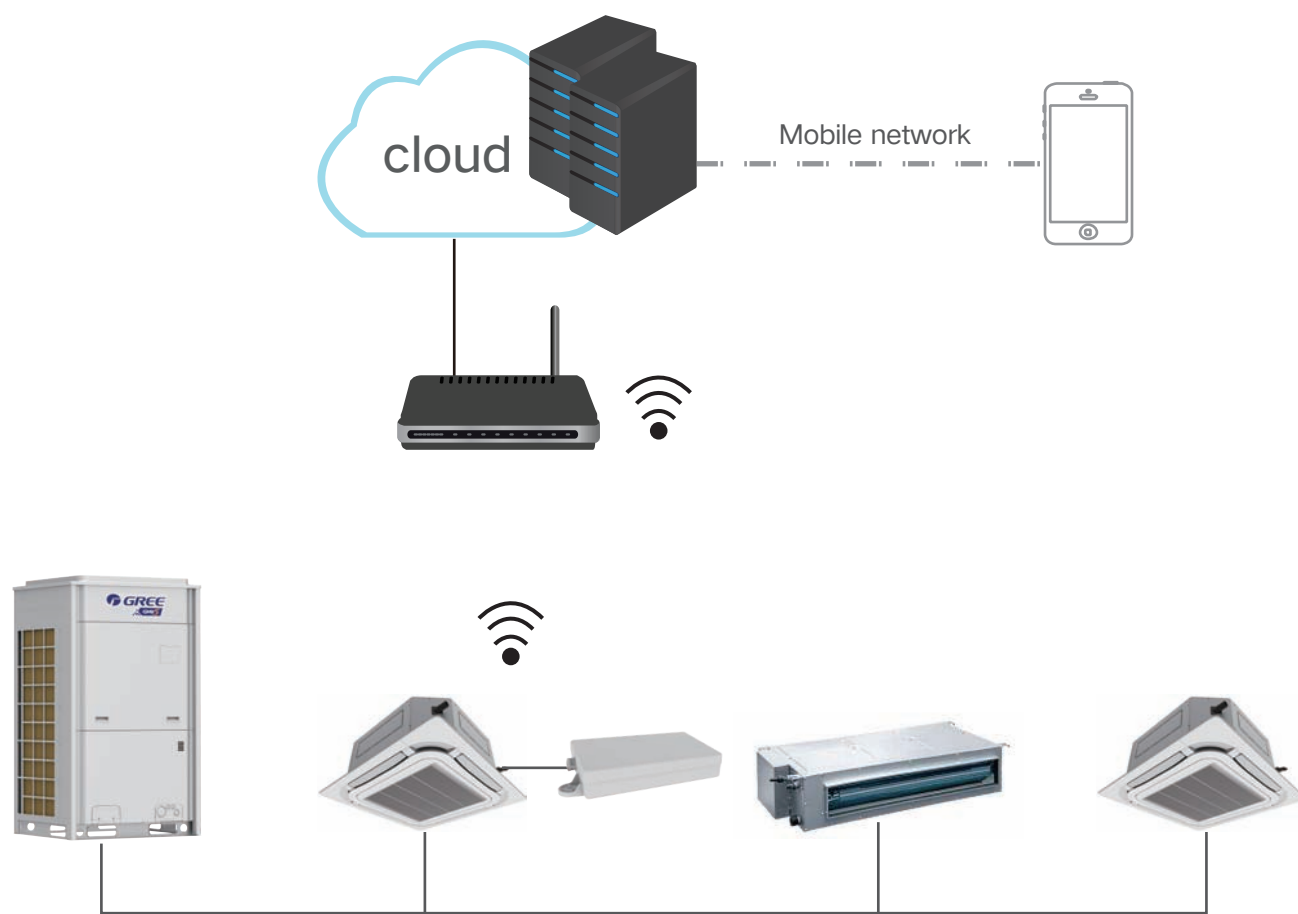
BACnet Gateway

BACnet features high communication efficiency, flexible protocol and convenient debugging. Gree BACnet gateway can realize the conversion of multi VRF unit's CAN protocol data into BACnet protocol data, as a bridge for data exchange between air conditioner and BAS.

Name	Model	Key Parameters	Application	Photo
VRF Protocol Gateway	ME30-24/D1 (BM)	Capacity: 255 sets of indoor unit Protocol: BACnet	Mainly used in the docking of medium and large building automatic control projects.	

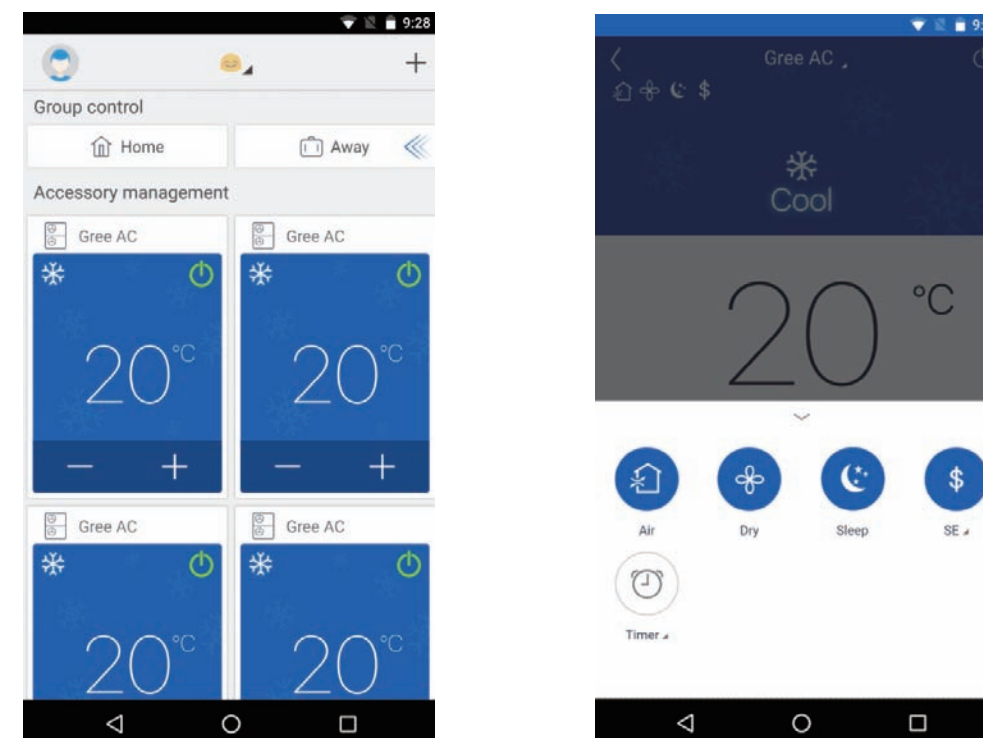
G-Cloud

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



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

System Chart



APP operation chart

- Lightweight**
 Compact and easy to install, no need of external power source; power supplied by equipment, available for use right after connection; a shielded wire of 4 cores is required for connection; easy operation; GREE+APP easy user configuration; quick guidance is provided, with simple and clear display;
- Smart and long-distance control**
 Users can set the running status of the cooling system based on a set of rules; long-distance control allows you to master your home appliances at any time;
- Capability**
 Multi VRF cloud control; one set of device is capable of controlling up to 80 sets of indoor units in a single system; applicable to villas, office buildings, shopping malls, hotels, etc;
- Sensitive**
 Monitor the units and detect errors.

Wired Controller and Remote Controller

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

Wired Controller XE70-33/H



- Elegant and concise appearance;
- Touch buttons with back lighting LCD;
- Detect ambient temperature precisely;
- Chinese and English display can be switched;
- With project parameters viewing and setting functions;
- 7 levels of fan speed, up & down swing and left & right swing;
- Applicable to multi VRF air conditioner and fresh air unit with evaporator;
- With weekly timer function, multiple weekly timer can be set; under weekly timer function, mode, temperature and fan speed can be preset;
- With service hotline inquiry and after-sales phone number record functions;
- Master and slave wired controllers can be set; simultaneous control over several IDUs is available; control max. 16 sets of IDUs at the same;
- Sleep, ventilation, quiet/auto quiet, light, energy saving, X-fan, memory, low-temperature dehumidifying, absence in heating, and filter cleaning reminder functions can also be set.

Wired Controllers XE7A-24/H and XE7A-24/HC



- Large screen, moisture-proof flat base structure, simple design for flexible installation;
- With LCD backlight display and touch buttons;
- Clock can be displayed and set, with 24h timer ON/OFF function (countdown and clock timer);
- 7 fan speeds, up & down swing and left & right swing;
- Working modes include auto, cooling dry, fan, heating floor Heating, 3D heating and space heating;
- Functions include sleep, quiet/auto quiet, energy-saving, x-fan, low-temperature dehumidifying absence in heating, filter cleaning reminder, auto cleaning, etc;
- Engineering parameters can be viewed and set;
- Hidden infrared remote control receiving device works with the infrared remote controller;
- Set temperature precision down to 0.5°C;
- Up to 2 wired controllers for 16 units, which is more flexible for use; a maximum of 16 indoor units can be controlled simultaneously via one master controller and one slave controller;
- WiFi function and APP remote control: after networking, user can control units remotely through an APP in a smart phone. (This function is available only in XE7A-24/HC.)

Remote Controller YAP1F



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

Remote Controller YAP1F7



- Switch among auto, cooling, dry, fan and heating modes;
- Except turbo fan, six fan speeds can be adjusted;
- Set up&down swing and left&right swing;
- With child lock, X-fan, health, turbo, sleep, light, absence, I-FEEL, clock timer and auto clean functions;
- With clock time display and indoor/outdoor ambient temperature check functions;
- Set temperature is adjustable under auto mode (set temperature under auto mode of multi VRF unit is fixed and can't be adjusted by the remote controller)

Note: Auto clean function is available for some models.

Linkage Controller LE60-24/H1

The linkage controller LC60-24/H1 is generally used with wired controllers to control AC units; when needed, it can also be individually connected to control the units. It has the following features:



- Flexibility to be installed in most places indoors, with no impact on indoor decoration;
- Access control detection, with two types of power input: AC 100-240V~50/60Hz or DC 5-24V;
- Dry contact signal detection, with two groups of dry contacts, which can be used to switch on/off indoor units via passive signals such as fire alarm and the opening and closing of windows;
- Up to 2 controllers for 16 units, which is more flexible for use; a maximum of 16 indoor units can be controlled simultaneously via one master controller and one slave controller.

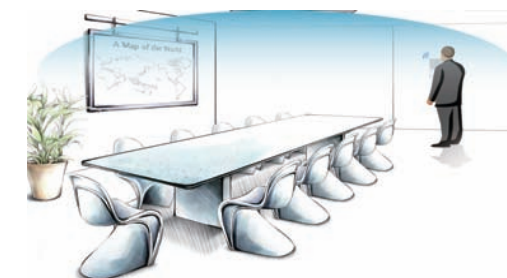
Remote Signal Receiving Panel JS13



- Receive common remote controller functions;
- Simple appearance and integrated design;
- Precise set temperature control with the precision down to 0.5 °C (remote controllers with a temperature control precision of 0.5°C are required);
- Up to 2 controllers for 16 units, which is more flexible for use; a maximum of 16 indoor units can be controlled simultaneously via one master controller and one slave controller;
- Hidden infrared remote control receiving device works with the infrared remote controller.

• Single control of one unit

Each indoor unit has an independent controller.



• Multiple control of one unit

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



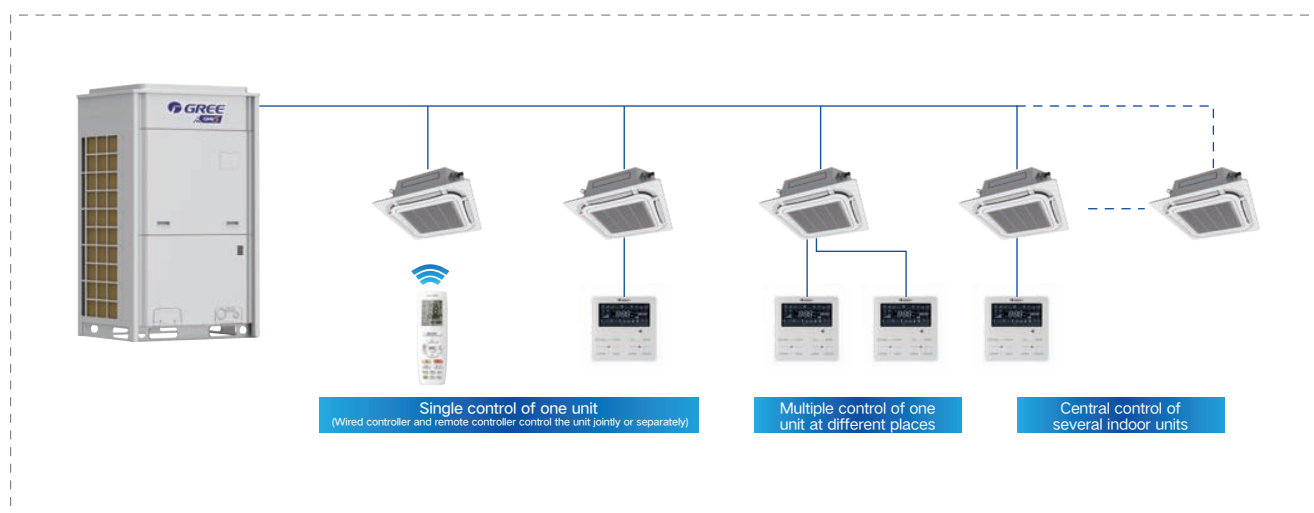
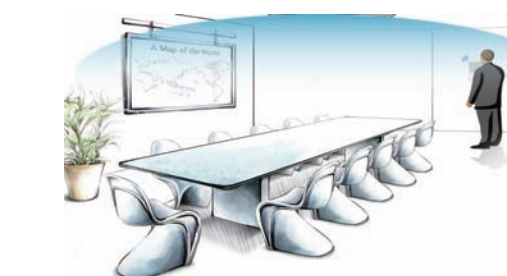
• Central control of several indoor units

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



• Joint control of remote controller and wired controller

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



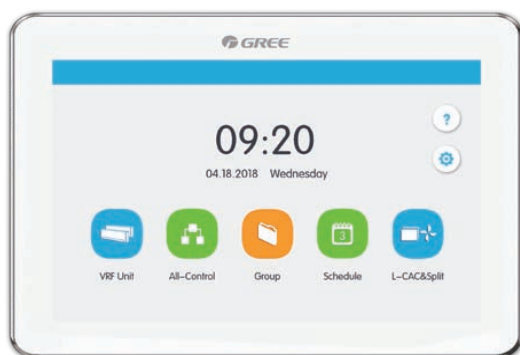
Smart Zone Controller and Central Controller

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



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

Centralized Controller CE52-24/F(C)



- With various functions: centralized control (control all indoor units), group management (support DIY grouping), schedule management (setting of several schedules, support special schedule setting such as holiday) and single indoor unit control (on/off, mode, temp setting, fan speed, quiet, swing control, etc.)
- Elegant and fashionable appearance;
- Color LCD, fine display and true color;
- 7-inch capacitive touch screen for easy operation;
- Up to 255 units can be centrally controlled;
- Connectable with network of indoor units or outdoor units;
- Independent power supply in 100~240V wide voltage range;
- Embedded installation in wall with projecting thickness only of 11mm;
- With project setting, parameter viewing, malfunction record and access management functions;
- Shielding function of single unit, group and all IDUs (shielding on/off, mode, temp setting, etc.), long-distance control at will;
- Provide naming of indoor units, selection of icons and personalized settings of centralized controller (setting background, back-light, etc.);

Commissioning Tool CE42-24/F(C) (Debugger)



- Built-in 4GB storage space;
- 4.3-inch color touch screen LCD;
- Simulate indoor and outdoor unit;
- With complete unit debugging function;
- With indoor unit control and engineering setting function;
- Outdoor unit program upgrade, indoor unit program upgrade;
- With unit decryption function and barcode two-dimensional code display;
- Communication bottom data can be saved and exported by connecting to PC;
- With system status viewing, outdoor unit status viewing, indoor unit status viewing function;
- The single interface is compatible with CAN and RS485 communication, which can automatically identify the communication type.

Smart Zone Controller and Central Controller

Power Generation & Consumption Management Central Controller CE55-24/F(C)













- It is white in color, with a round frame. There is only one tangible button on the controller;
- Embedded type installation: The outer part is only 11mm thick;
- The 7-inch super large capacitor type touch screen has a resolution of 1280*800, clear display, fine images and vivid colors;
- The software operating interface is user-friendly and easy to use. It adopts full touch control, which is very convenient;
- Its two main functions: PV power generation and consumption data management, central control of air conditioning;
- In terms of power generation and consumption management, it provides parameter query (real-time data display of photovoltaic power generation, unit power consumption, grid power supply), power calculation (monthly and yearly calculation), power curve (such as real-time), and power generation and consumption dynamic display;
- Regarding the central control of air conditioning, it provides multiple control modes, including central control (overall air conditioning), group management (supports user-defined group management), schedule management (settings for different schedules, such as holidays), and single-unit control (power on / off, mode selection, temperature setting, fan speed adjustment, sound adjustment, air volume setting, etc.);
- Support indoor unit naming, icon selection and personalized settings of the central controller (background setting, sound setting, etc.);
- Can connect max. 16 sets of PV Direct-driven Inverter Multi VRF Systems, and can use max. 128 air conditioning units;
- The air conditioning central control also provides shielding functions (on/off shield, mode shield, temperature shield, etc.) for a single unit, a group of units and all the indoor units. Remote shield is available. When the shield function is enabled, the wired controller and remote controller of indoor unit will be locked, and only the Power Generation & Consumption Management Central Controller is allowed to be used;
- Directly connected to the network of indoor units; no extra communication module is needed, it is more flexible and convenient;
- Super wide voltage range from 100V to 240V; independent power supply, stable and reliable.

24V Converter ME32-33/H






- Simple appearance, moisture-proof structure;
- Various interfaces: 1 set of third-party controller signal interfaces and 4 sets of dry contact signal interfaces;
- Signal conversion of a third-party controller: convert the control signal of 24VAC HVAC Thermostat into the control signal of GMV5. In this way, a third-party controller like 24VAC HVAC Thermostat can control our GMV5 units;
- Fire alarm and other dry contact signal detection: it is used to detect fire, external water tray overflow, etc. so as to shut down the air conditioner in time to protect property and people.

Control System Lineup

Controlling systems				Outdoor series					GMV5	GMV5 MINI	GMV5 HR	Water-cooled GMV5	GMV5 Solar
Intelligent Remote Eudemon		FE30-24/DF(B)							○	○	○		
		ME20-24/D1(T)											
Gateway of Building Protocol	Modbus Gateway (Pro)	ME30-24/D1(BM)							○	○	○	○	
	Modbus Gateway (Mini)	ME30-24/E6(M)							○	○	○	○	
	H2M Gateway	ME31-33/EH1(M)							○	○	○	○	
	BACnet Gateway	ME30-24/D1(BM)							○	○	○	○	
G-Cloud		ME31-00/C7							○	○	○		
Other modules	Optoelectronic Isolated Converter	GD02							○	○	○		
	Optoelectronic Isolated Signal Multiplier	RS485-W							○	○	○		
	Portable Commissioning Tool	CE42-24/F(C)							○	○	○	○	○

Note : ● means standard, ○ means optional.

Indoor series			Duct Type	Cassette Type	Wall mounted Type	Console	Floor Ceiling Type	Air Handler	Fresh Air Processing	AHU-KIT
Controlling system										
Remote Controller	YAP1F		○	●	●	●	●	○	○	○
	YAP1F7		○	○	○	○	○	○	○	○
Wired Controller	XE70-33/H		○	○	○	○	○	○	○	○
	XE7A-24/H		○	○	○	○	○	○	○	○
	XE7A-24/HC		○	○	○	○	○	○	○	○
Receiver	JS13		○	○	○	○	○	○	○	○
Centralized Controller	CE52-24/F(C)		○	○	○	○	○	○	○	○
	CE55-24/F(C)		○	○	○	○	○	○	○	○
E-Smart Zone Controller	CE54-24/F(C)		○	○	○	○	○	○	○	○
Linkage Controller	LE60-24/H1		○	○	○	○	○	○	○	○
Dry Contact & 24V Adaptor	ME32-33/H		○	○	○	○	○	○		

Note : ● means standard, ○ means optional.
* This product is under development.

Branching Joint (For GMV5 units)

For Indoor & Outdoor Units

Model	Total Capacity X(Btu/h)	Appearance	
		Gas Pipe	Liquid Pipe
FQ01A/A	X < 68,000		
FQ01B/A	68,000 ≤ X ≤ 102,000		
FQ02/A	102,000 < X ≤ 239,000		
FQ03/A	239,000 < X ≤ 460,600		
FQ04/A	460,600 < X		

Note: Above dimensions are engineering piping dimensions.

For Outdoor Units

Model	Appearance	
	Gas Pipe	Liquid Pipe
ML01/A		

Note: Above dimensions are engineering piping dimensions.

Branching Joint (For GMV5 units)

For Indoor Units

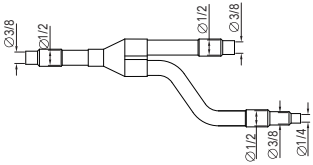
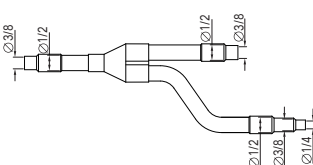
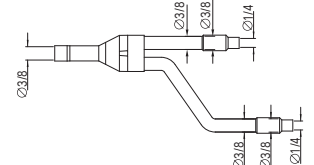
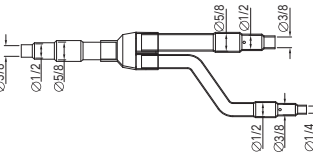
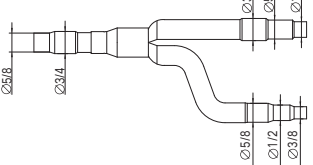
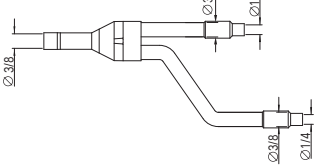
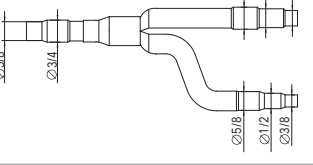
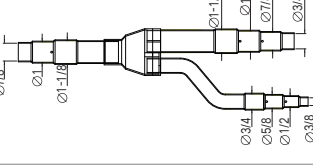
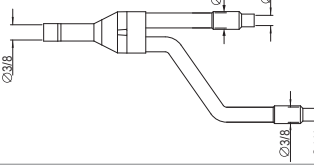
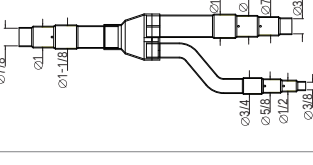
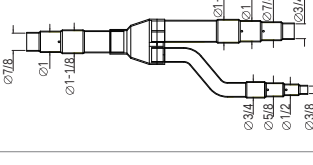
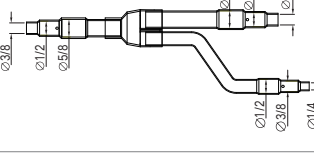
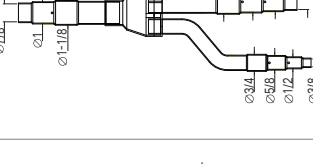
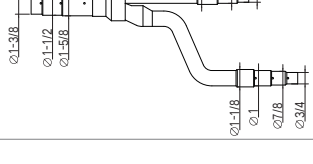
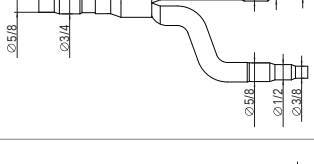
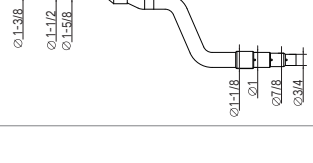
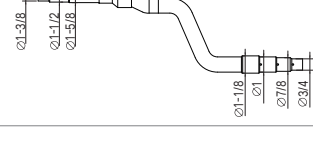
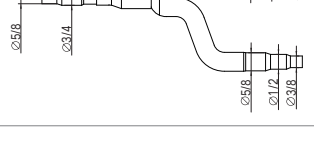
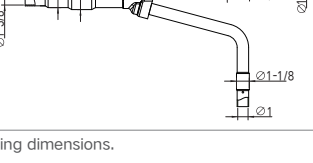
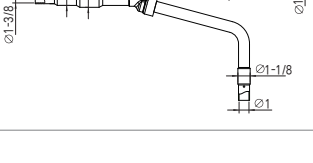
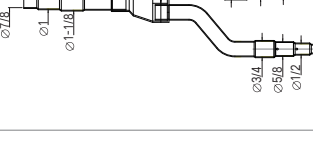
Model	Sort	Blueprint
FQ14/H1	Gas pipe	
	Liquid pipe	
FQ18/H1	Gas pipe	
	Liquid pipe	
FQ18/H2	Gas pipe	
	Liquid pipe	

Note: Above dimensions are engineering piping dimensions.

Total rated capacity of downstream indoor units X(Btu/h)	Upstream connection pipe dimension		Model of manifold pipe
	Gas pipe (inch)	Liquid pipe (inch)	
X ≤ 136,000	≤ Φ1	≤ Φ1/2	FQ14/H1
136,000 < X ≤ 232,000	≤ Φ1-1/8	≤ Φ5/8	FQ18/H1
232,000 < X	≥ 1-1/4	≥ 3/4	FQ18/H2

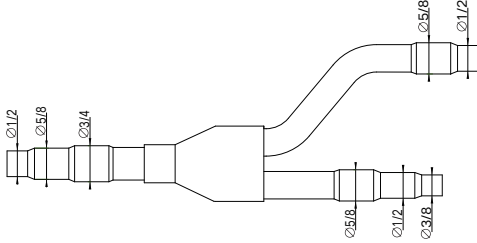
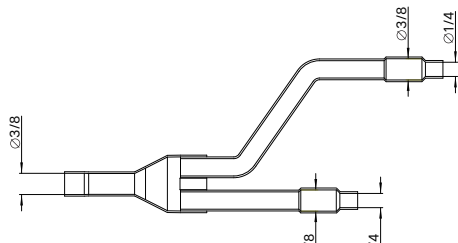
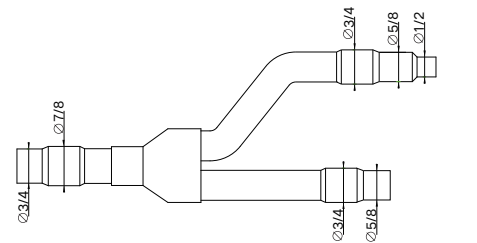
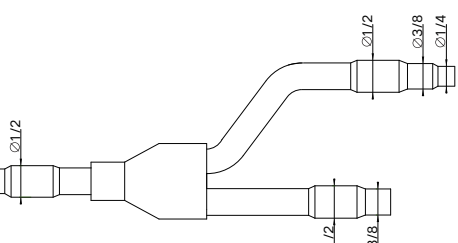
Branching Joint (For GMV5 HR)

For Outdoor Units and Mode Exchanger

Model	Total capacity of the downstream indoor unit X(Btu/h)	Appearance		
		High-pressure gas pipe	Low-pressure gas pipe	Liquid pipe
FQ01Na/A	$X \leq 17,100$			
FQ02Na/A	$17,100 < X \leq 76,400$			
FQ03Na/A	$76,400 < X \leq 95,500$			
FQ04Na/A	$95,500 < X \leq 232,000$			
FQ05Na/A	$232,000 < X \leq 327,500$			
FQ06Na/A	$327,500 < X \leq 460,600$			
FQ07Na/A	$460,600 < X$			

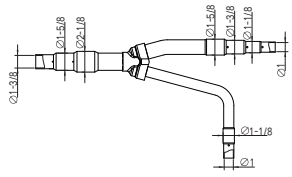
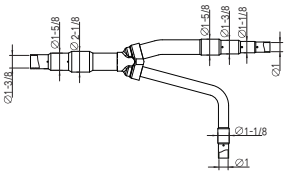
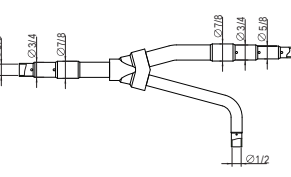
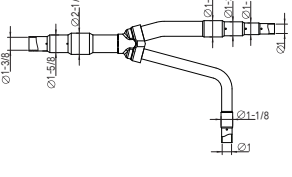
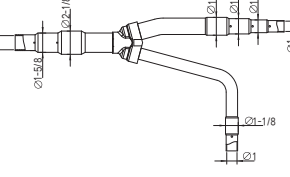
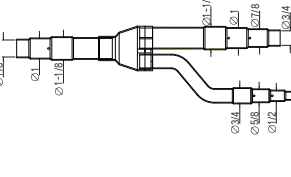
Note: Above dimensions are engineering piping dimensions.

For Indoor & Mode Exchanger

Model	Total capacity of the downstream indoor units X(Btu/h)	Appearance	
		Gas Pipe	Liquid Pipe
FQ01A/A	$X < 68,000$		
FQ01B/A	$68,000 \leq X \leq 102,000$		

Note: Above dimensions are engineering piping dimensions.

For Outdoor Units

Model	Module ' s capacity X(Btu/h)	Appearance		
		High-pressure gas pipe	Low-pressure gas pipe	Liquid pipe
ML01R	$X \leq 327,500$			
ML02R	$327,500 < X$			

Note: Above dimensions are engineering piping dimensions.

Branching Joint (For AHU KIT)

Model	Appearance
	Liquid Pipe
FQ02U/A	

Note: Above dimensions are engineering piping dimensions.

Reducer/Expander Pipe Dimensions

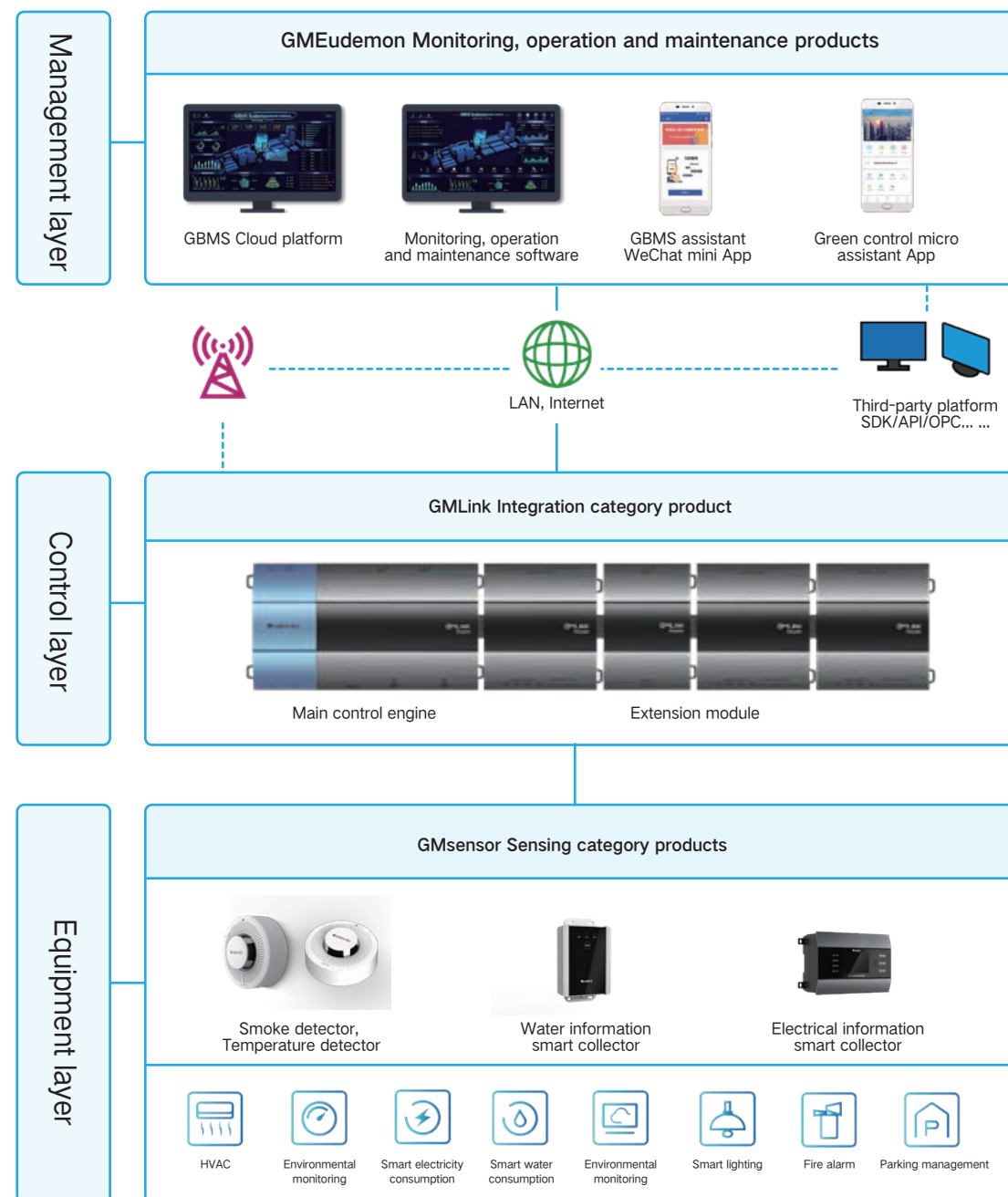
 CF333(54/45)	 CF334(41/38)	 CF335(35/32)	 CF336(35/29)
 CF337(29/25)	 CF338(26/22)	 CF339(26/19)	 CF340(19/16)
 CF341(16/13)	 CF342(13/10)	 CF343(13/6)	 CF344(10/6)
 CF345(13/16)	 CF346(16/19)	 CF347(19/22)	 CF348(23/25)
 CF349(29/32)			

Note: Above dimensions are engineering piping dimensions.

Gree Intelligent Building Management System (G-BMS)

G-BMS, entirely developed by Gree, covers three series products of GMLink integration category, GMSensor sensing category, and GMEudemon monitoring, operation and maintenance category, as well as HVAC automatic control system products and industry solutions, to achieve equipment integrated monitoring, energy-saving operation, efficient operation and maintenance, and create a 1+N² complete ecological management system for smart buildings.





1+N² complete ecological management system for smart buildings

It includes three series products of GMLink integration category, GMSensor sensing category, and GMEudemon monitoring, operation and maintenance category, integrates artificial intelligence, 5G, cloud computing and other technologies to create a 1+N² complete ecological development and management system, providing customized solutions for various engineering implementation stages in different industries, reducing the construction costs and operation and maintenance costs of intelligent buildings, and solving difficulties in construction, management, upgrading, etc., so as to achieve energy saving and efficient operation and maintenance of buildings and enterprise parks.

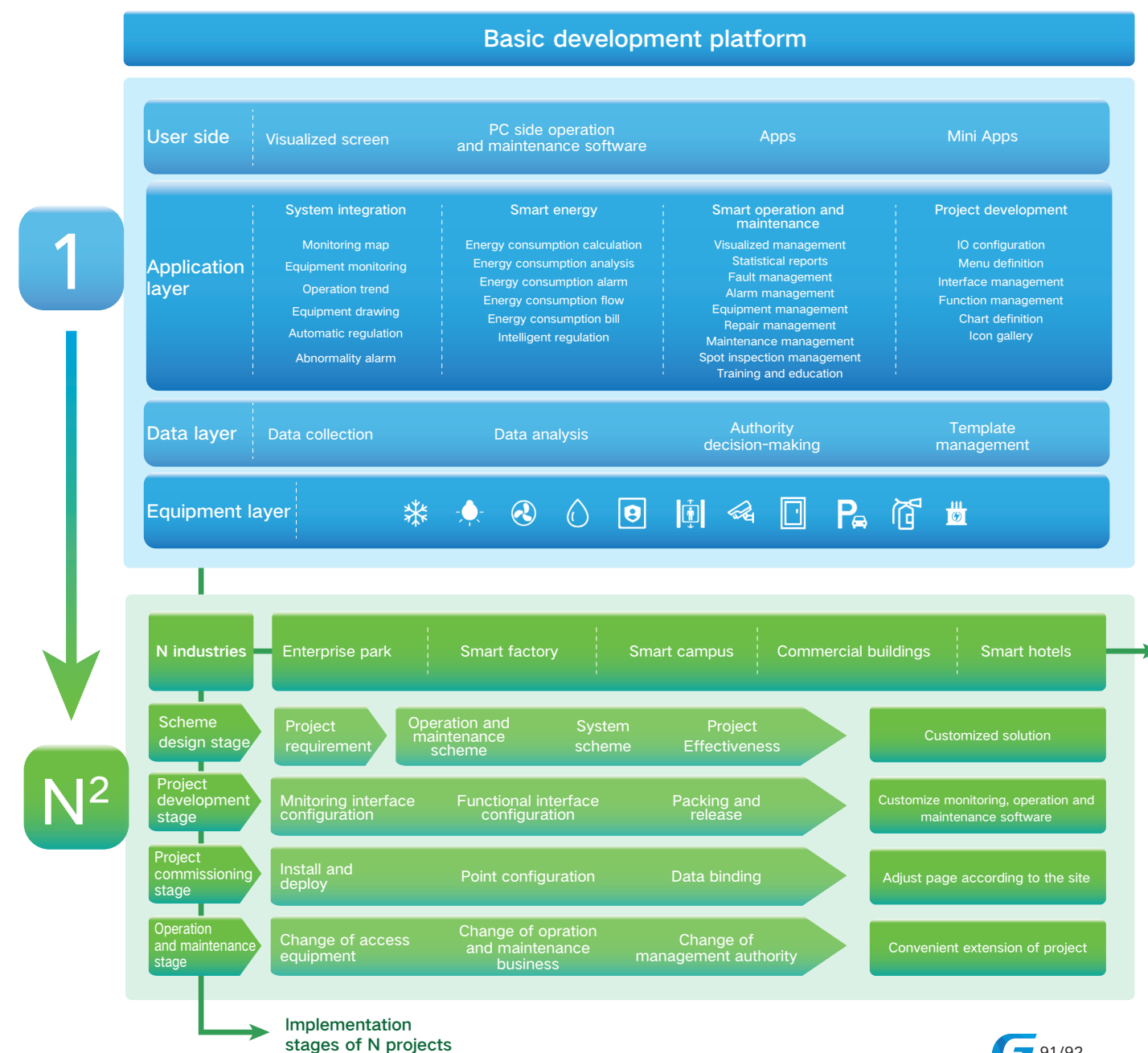
1) "1" means Gree intelligent building management system, including integrated monitoring, engineering development, AI operation and maintenance and other functions.

2) "N²" means to provide different solutions for N industries and N stages to achieve fast development, convenient commissioning and free expansion.

Features

- 1) Rapid programming development: a self-developed platform using component-based development and design ideas to achieve free combination of functional modules, configurable functions, and easy configuration.
- 2) Real-time dynamic expansion: create a series of products and solutions, and simplify the process of project development, commissioning, upgrading, etc., to achieve on-demand project expansion.
- 3) Multi-dimensional energy saving strategy: achieve precise energy saving of at least 30% from the dimensions of device perception, system linkage, platform management, etc.
- 4) Efficient operation and maintenance: intelligent operation and maintenance such as cloud-side collaboration, scenario definition, equipment inspection, operation trend and analysis, etc., help improve efficiency by 90%.

Structure



GMLink

GMLink series is a network controller product independently developed and produced by Gree, covering the main control engine, communication expansion module, programming software and other products. Through configuration development, it can realize the integration of various building environment system equipment, and provide unified data access interface, edge side logic control and other functions.

Main control engine

The main control engine is an edge processing controller that integrates device management, data sharing, and logic control

- Support multi-region distributed and centralized control system structure
- Support configuration programming and unordered splicing of expansion modules, up to 120,000 points and 64 control units accesses can be expanded
- Support equipment protocol integration and provide standard protocol open data interface
- Support second-level undisturbed hot standby switching of dual controllers of the main and standby units

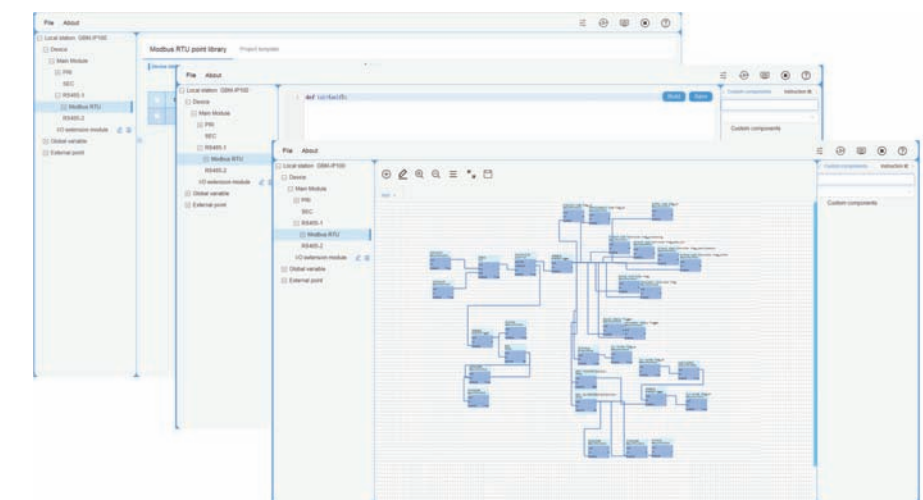


Communication extension module

I/O extension	RS485 extension
With a variety of configurable I/O ports, it can meet the needs of instant acquisition, detection and control of I/O devices.	Support a variety of baud rates and meet the extended access of Modbus RTU devices

Programming software

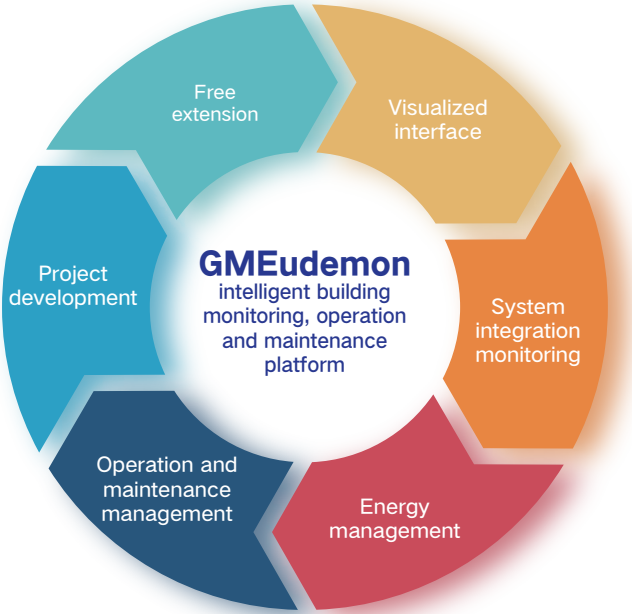
GreeBlock software integrates point configuration, logic programming and commissioning functions, providing a visual programming development platform for GMLink series controllers, and making it easy for engineers to learn and apply together with the users' instruction manual.



GMLink

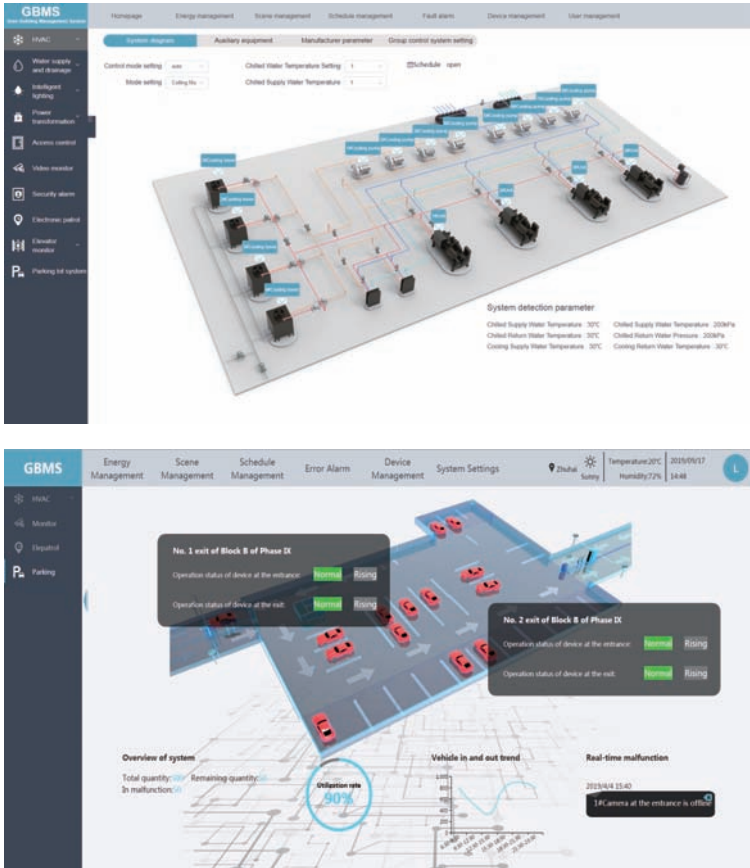
GMEudemon

GMEudemon intelligent building monitoring, operation and maintenance platform integrates 6 major functional sections. As a basic development platform, it quickly customizes the monitoring, operation and maintenance software for different industries and different projects, and supports subsequent expansion by the users, meeting the needs of project development, project operation, project maintenance and other stages.



System integration monitoring

Monitor the operation status of the subsystem equipment in real time, and support display methods such as electronic maps and lists.



AI visualized interface

Comprehensively display the overview of the park, covering subsystem overview, energy consumption overview, fault and alarm information.



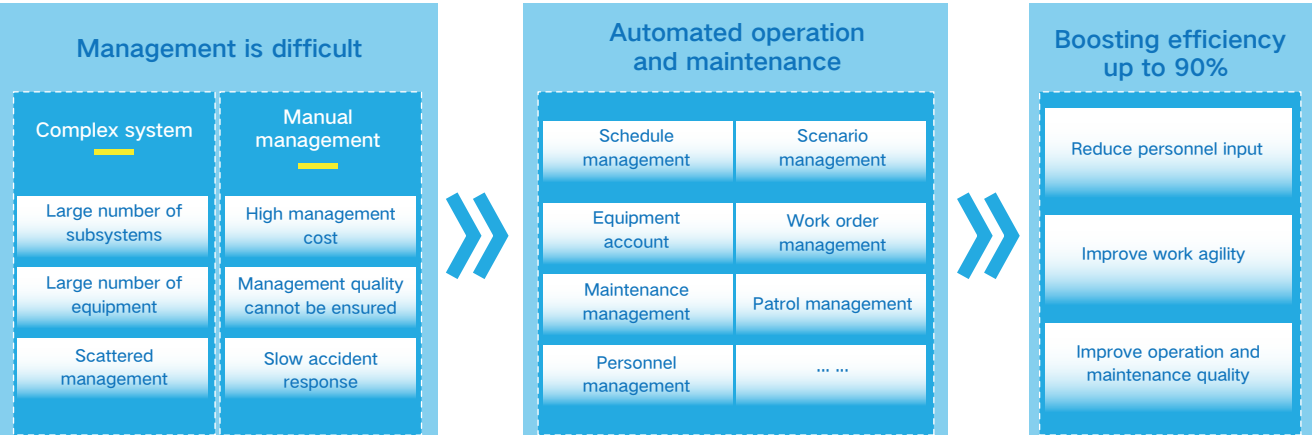
Energy management

Display the energy consumption data in real time, calculate and analyze energy consumption in multi-dimensional and multi-format aspects, and support exporting of the reports.



Operation and maintenance management

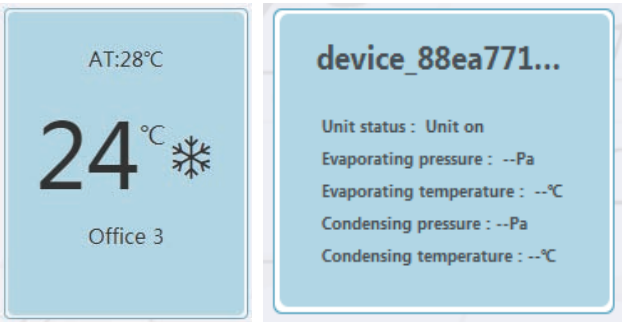
Automatically manage the entire life cycle of equipment from being put into use to scrapping, including equipment ledger, work order management, inspection management, maintenance management and spare parts management, making management more transparent and intelligent.



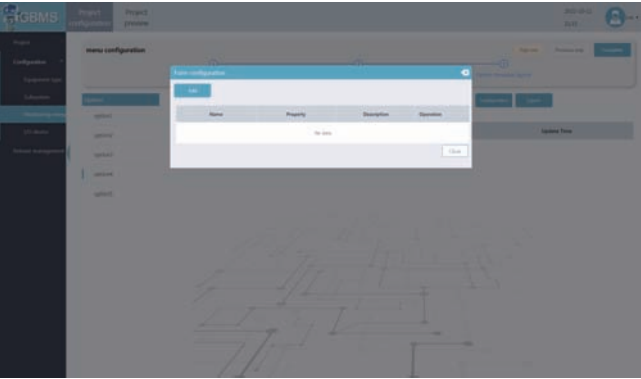
Project development

From traditional code development to graphical and configuration-based development, there is no need for professionals to achieve customized project development.

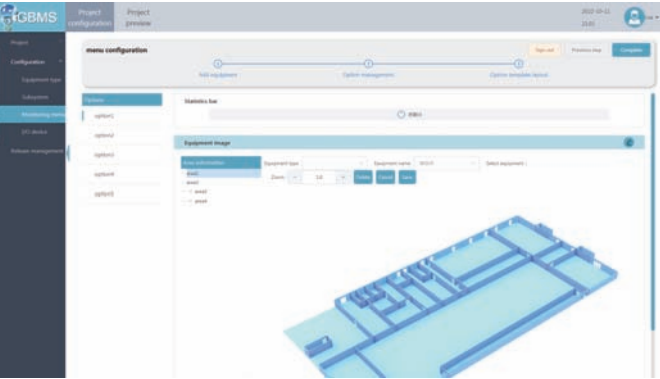
- 1) Monitoring templates such as electronic maps, cards and system diagrams
- 2) Various equipment picture gallery, icon gallery and color matching gallery
- 3) Support multi-person collaborative development



Card template



Project tree list



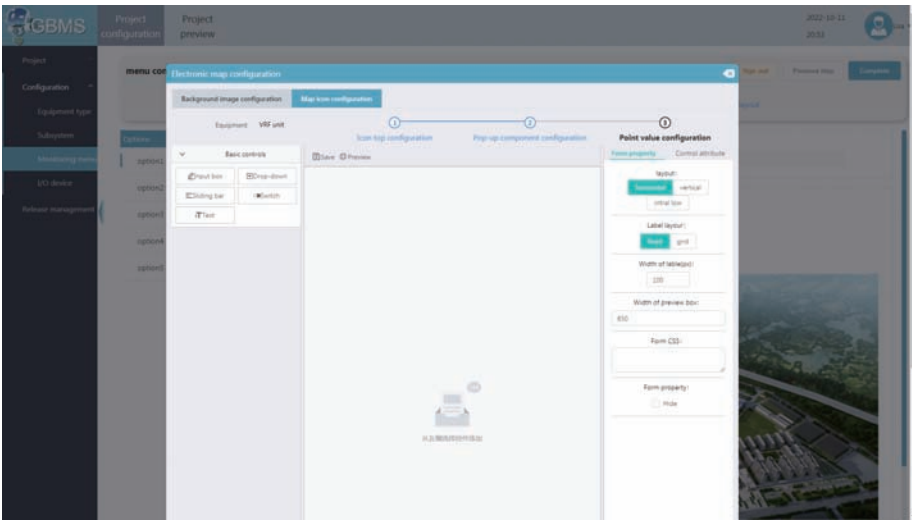
Electronic map template



Free extension

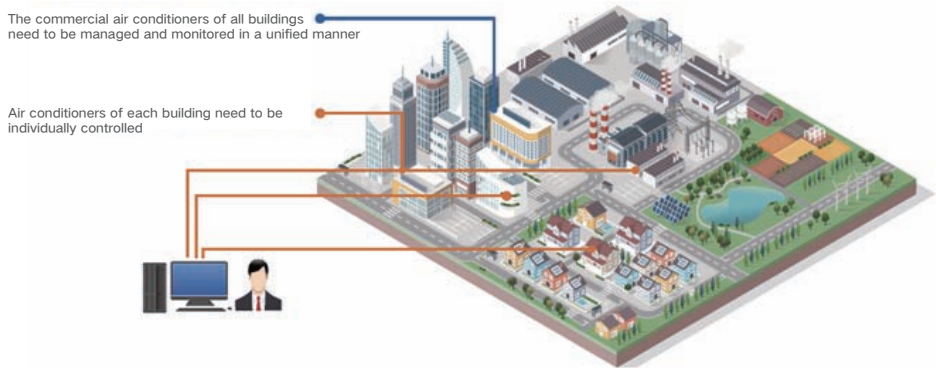
After delivery, users can upgrade and update the monitoring software by themselves through the interface configuration if the equipment shall be updated or project information changes, etc.:

- 1) Device extension: support adding, deleting, replacing, changing types, etc.
- 2) Point extension: support adding, replacing, deleting, name changing, rebinding, etc. of device parameters
- 3) Project extension: support staged construction of project, building information change, etc.

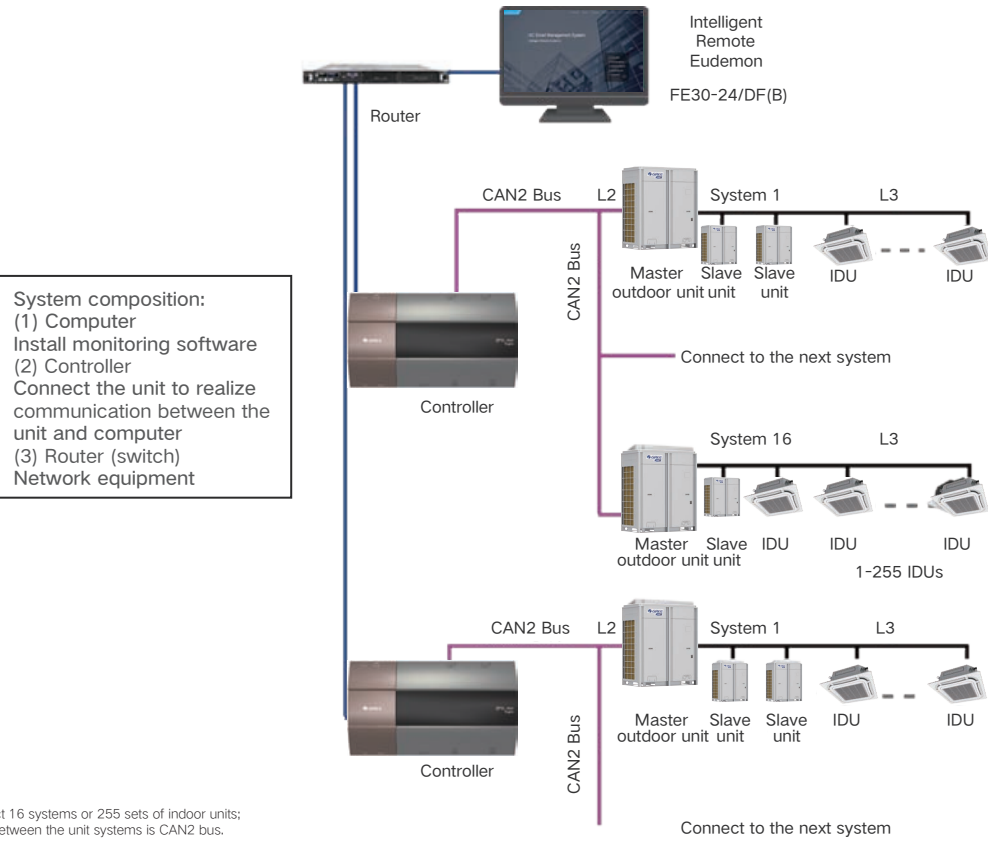


Intelligent Remote Eudemon

Intelligent Remote Eudemon provides intelligent operation and maintenance services based on the cloud platform, meeting the demands of integrated monitoring of equipment in multiple locations.



Intelligent Remote Eudemon adopts world-leading CAN+ multi VRF unit' s communication technology and combines with distributed processing methods to ensure that the system has the characteristics of high availability, easy expansion, and easy networking, and can meet the air conditioning monitoring requirements in multiple scenes.



Notes:
(1) One controller can connect 16 systems or 255 sets of indoor units;
(2) The communication bus between the unit systems is CAN2 bus.

Intelligent Assistant

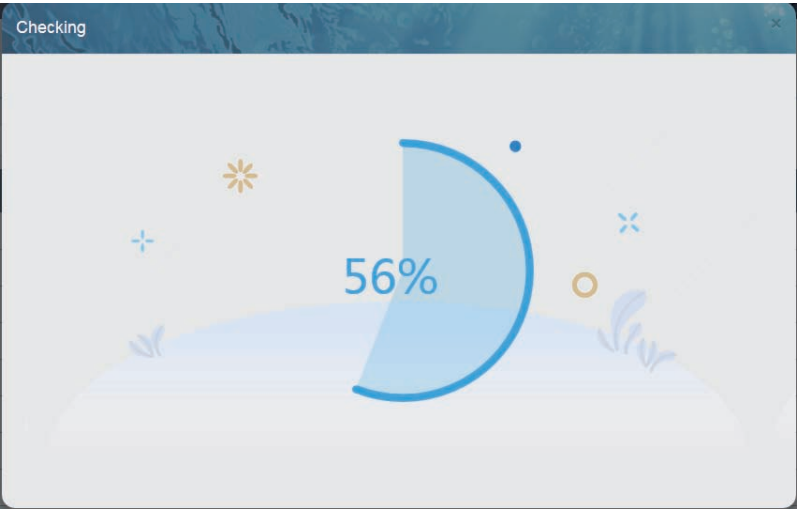
One-stop Debugging

Support automatic one-stop debugging methods such as one-button debugging and code scanning debugging to achieve automatic synchronization matching, reduce debugging difficulty, and improve efficiency and accuracy.



Intelligent Physical Examination

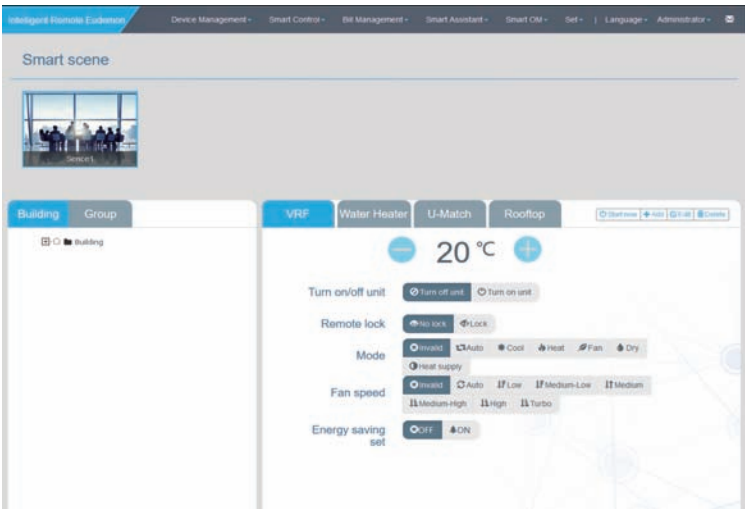
The equipment status can be understood directly and the user can control the health of the unit by themselves.



Intelligent Control

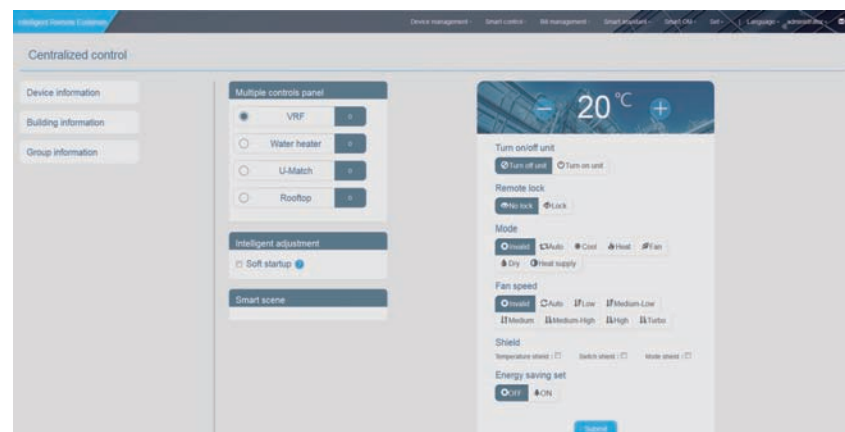
Smart Scenes

The user can preset a set of parameters according to the needs of life and work (similar to the scene mode of a mobile phone), and then the user can enable and switch with one key, without setting parameters one by one.



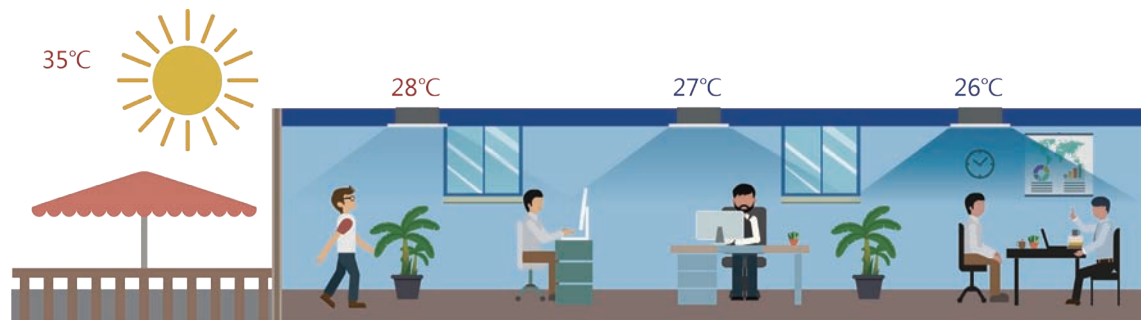
Soft Start

Delay start of equipment in batches to avoid the impact to the grid in centralized control.



Temperature Field

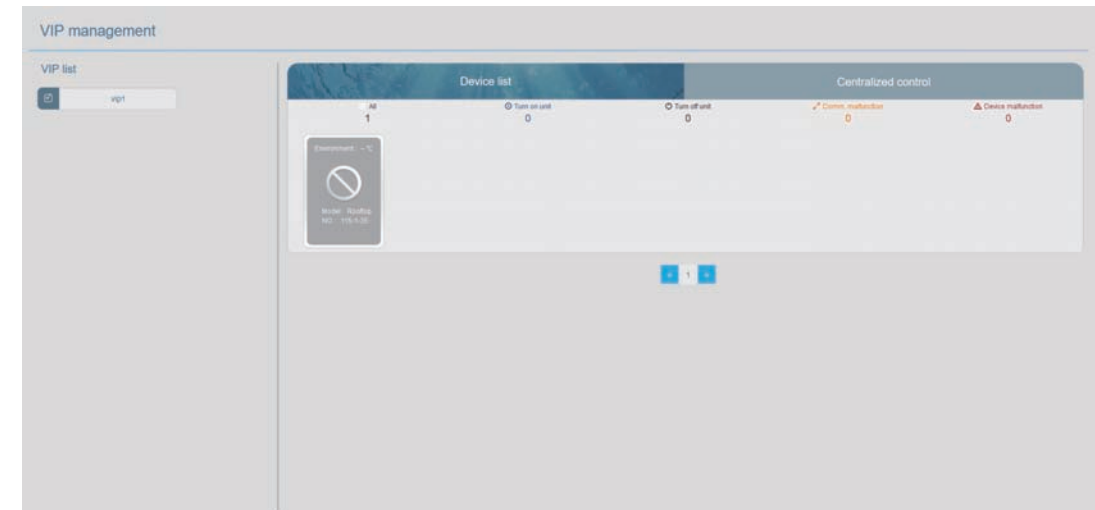
Realize stepped temperature field, gradually adjust the temperature area, prevent sudden cooling or heating, and stay away from air conditioning sickness.



Smart Operation and Maintenance

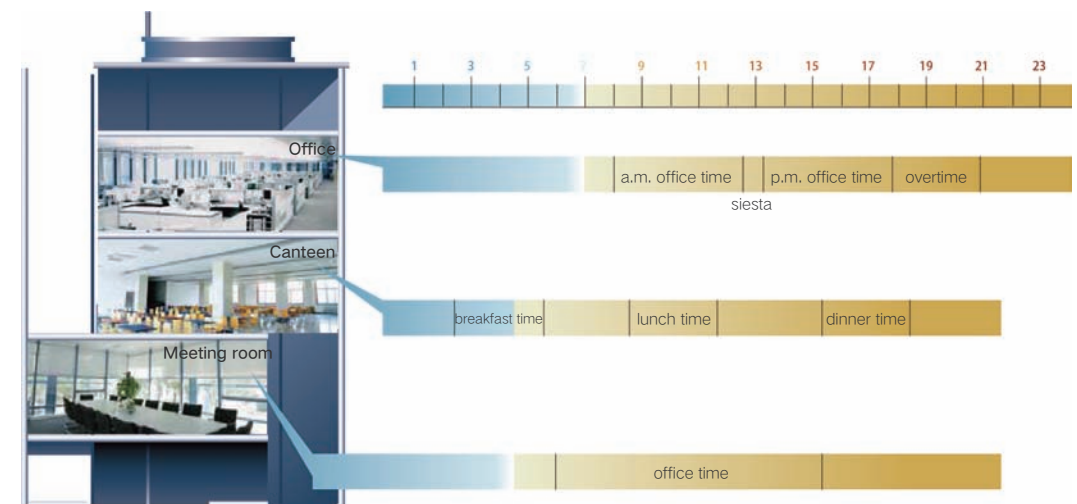
VIP Exclusive Service

Independent VIP group professional customized service to avoid misoperation and provide a more comfortable environment for the VIP.



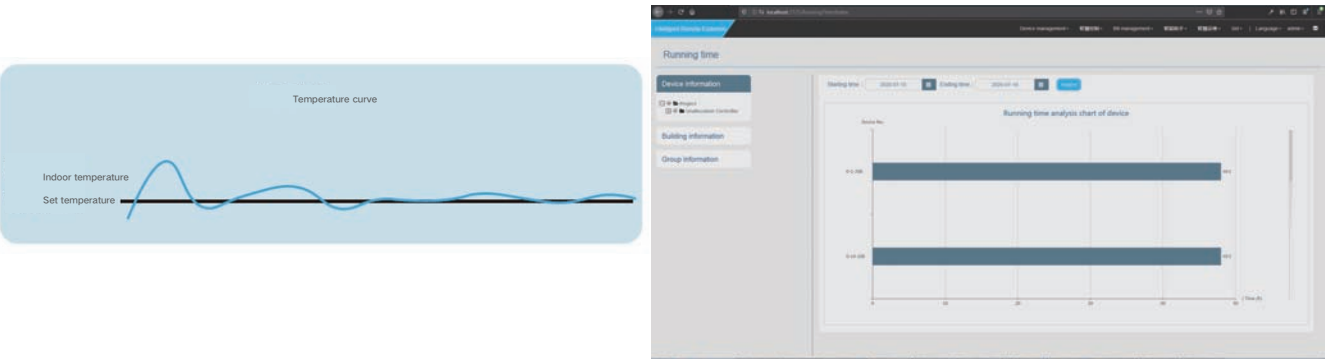
Schedule Management

Set schedules for different regions and different equipment, execute preset commands automatically, and reduce waste of time caused by repeated operations.



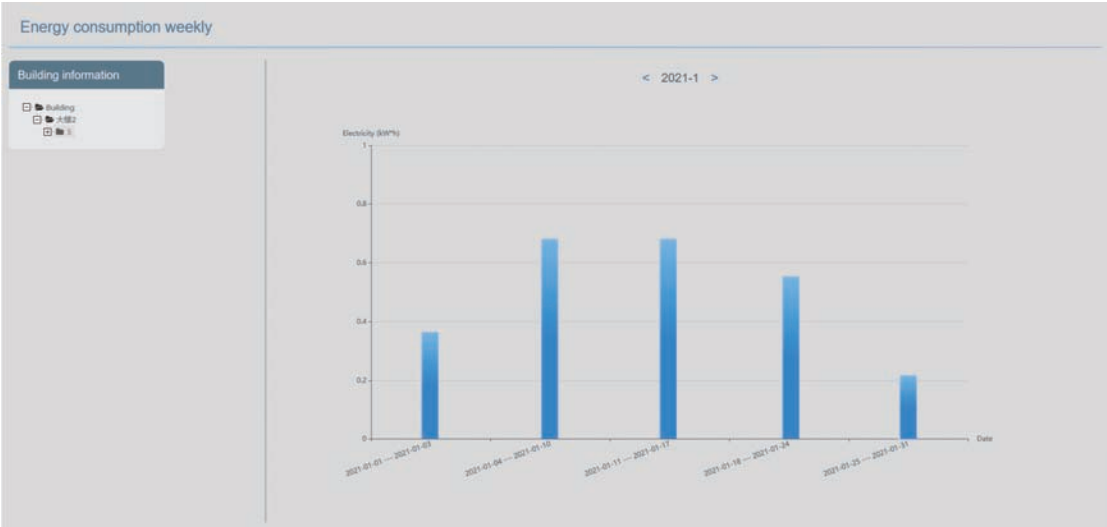
Green Assistant

Perform statistical analysis on the operating time, set temperature, and indoor temperature, and acquire the actual running status of the equipment in time.



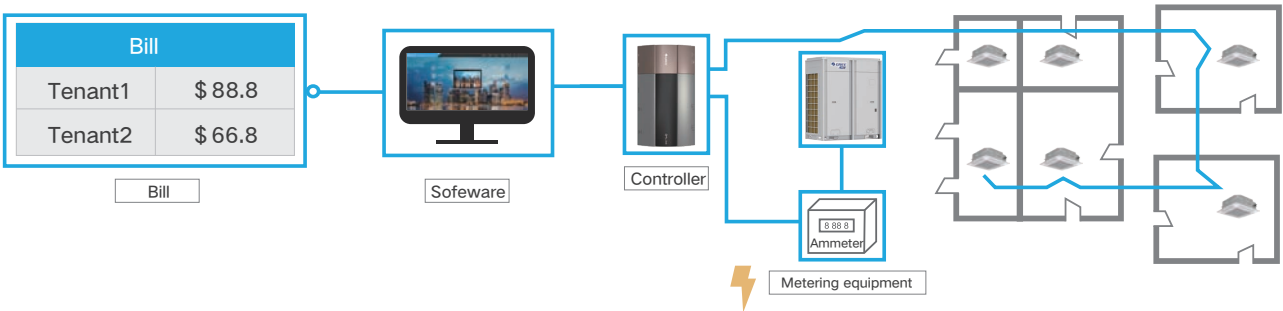
Weekly Energy Consumption Report

Electricity statistics are carried out on a weekly and monthly basis. The background color is used to reflect the electricity consumption, and the user can accurately control the power consumption of the unit.



Intelligent Billing

At present, multi VRF system has occupied more than 50% of the market share of central air conditioner, and it is increasing year by year. At the same time, the billing of air conditioner has gradually become the focus of the industry. Due to the differences in the use of air conditioner, it is unfair to adopt the billing method of average sharing, and the collection of multi VRF unit ' s air conditioning fee has become a difficult problem for property management. Therefore, Gree launched the intelligent billing system for multi VRF units to solve the problems of multi VRF unit ' s power consumption statistics and users ' electricity bill distribution, providing accurate and reasonable billing basis for property management.



Billing Management

Properly distribute the electricity automatically according to ON/OFF time, mode, set temperature, indoor ambient temperature, outdoor ambient temperature etc.; provide detailed bill, operational details, etc.

Flexible Bill Export

Provide a variety of bill export modes to achieve free choices and convenient management of bill cycle, distribution mode,and bill type.

Bill for Air Conditioner				
Room	601			
Time	2016/08/01-2016/08/31			
No.	Equipment	Operation/KWH	Standby/KWH	Subtotal
1	IDU 1	12.5	0.55	13.05
2	IDU 2	11.6	0.21	11.81
3	IDU 3	13.2	0.36	13.56
Total	38.42			

Compatible to Different Electric Meters

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

Note

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

Note

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