

 **GREE**
AIR CONDITIONER

CAC

NORTH AMERICA
T1/R410A/60Hz

2021



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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.

All features and specifications are subject to change without prior notice.

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Distributor information

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 is the number one brand of air conditioners in the world in 2019*.

2005: Gree has topped No.1 in production and sales volume of residential air conditioners for 14 consecutive years.

2015: Gree's sales revenue exceeded 15.08 billion USD.

2016: Gree's sales revenue exceeded 16.51 billion USD.

2017: Gree's sales revenue exceeded 22.21 billion USD.

2018: Gree entered into the list of Forbes Global 2000 again and ranked No. 294, moving up 70 places compared with the previous year.

Gree's sales revenue exceeded 30.23 billion USD.

2019: Gree entered into Fortune Global 500. Gree's return on equity (ROE) ranked the first among the 129 Chinese enterprises on the list.

2020: Gree has ranked the 436th on the list of Fortune Global 500.

Thanks to 400 million users' choices, Gree brands are sold widely to more than 160 countries and regions.

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

*Gree is the number one brand of air conditioners in the world in 2019

Footnote: "Source Euromonitor International Limited; Consumer appliances 2020; retail volume sales in units, 2019 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 .
-  **Child lock**
It avoids child's wrong operation on the 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.
-  **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.
-  **Human engineering operation**
Adopts the technologies of auto addressing, non-polar communication and auto debugging, which improves project efficiency.
-  **Floor heating debugging**

AIR-COOLED GMV5

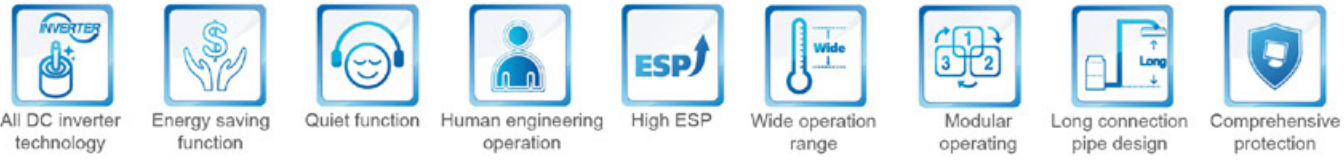
- GMV5
- GMV5 Mini
- GMV5 Heat Recovery
- GMV MTAC



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.



- 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 8hrs, 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	1000(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)	
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	9416
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
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	52-3/4×30-1/8×63-1/4	52-3/4×30-1/8×68-1/2
	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
Net weight/Gross weight	lbs		498/518	682/695	794/827	794/827	849/882
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.	In.				
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.	In.				
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.



- Outdoor unit quiet mode.
- High energy efficiency with a high-performance compressor; long connection pipe design with the a maximum length of 300 (984-1/4)feet.
- Auto switch of module status every 8hrs, 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	37,500	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	
	Gas	In.	5/8	5/8	5/8	5/8	
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	39-1/4×18×59-1/16	39-1/4×18×59-1/16	40-5/8×17-1/16×62-1/4
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.



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

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.

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

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											
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	686+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	308,000	(52-3/4x30-1/8x63-1/4)x2	8240x2	0.33	66	48	Φ3/4	Φ1-1/8	Φ1-3/8	55+55	70+70	816x2
GMV-Q312WM/B-F(U)		290,000	312,000	(52-3/4x30-1/8x63-1/4)x3	8240x3	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)		296,000	320,000	52-3/4x30-1/8x63-1/4 + 52-3/4x30-1/8x68-1/2	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	(52-3/4x30-1/8x63-1/4)x3	8240x3	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)		312,000	350,000	(52-3/4x30-1/8x68-1/2)x2	9420x2	0.33	67	48	Φ3/4	Φ1-3/8	Φ1-5/8	57+57	70+70	871x2
GMV-Q360WM/B-F(U)		334,000	380,000	(52-3/4x30-1/8x63-1/4)x3	8240x3	0.33	67	48	Φ3/4	Φ1-3/8	Φ1-5/8	50+50+50	80+60+80	794x3

*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.

Specifications of ODU Combination

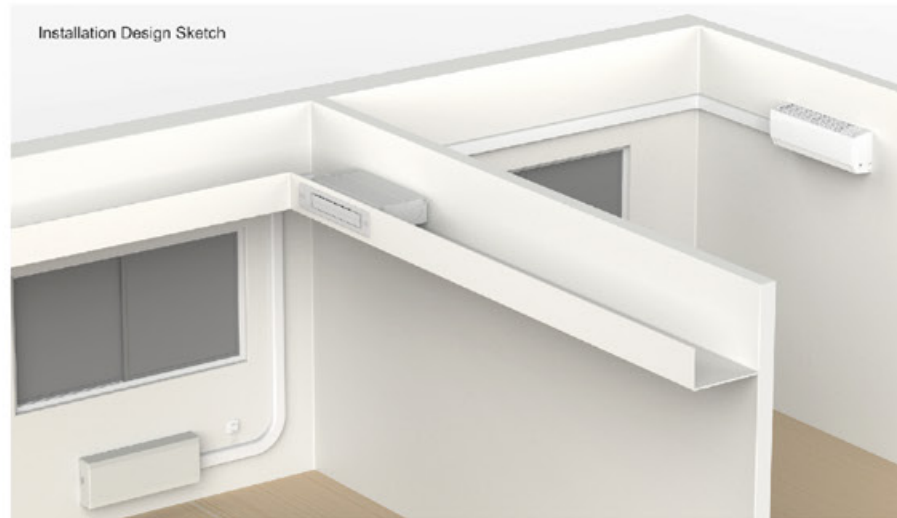
460V

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											
GMV-Q144WM/B-U(U)	460-3-60	134,000	150,000	(52-3/4x30-1/8x63-1/4)x2	8240x2	0.33	63	48	Φ1/2	Φ7/8	Φ1-1/8	15+15	20+20	672x2
GMV-Q168WM/B-U(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	15+18	20+25	672+694
GMV-Q192WM/B-U(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	18+18	25+25	694x2
GMV-Q216WM/B-U(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	18+25	25+30	694+816
GMV-Q240WM/B-U(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	25+25	30+30	816x2
GMV-Q264WM/B-U(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	15+18+18	20+25+25	672+694x2
GMV-Q288WM/B-U(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	18+18+18	25+25+25	694x3
GMV-Q312WM/B-U(U)		290,000	312,000	(52-3/4x30-1/8x63-1/4)x3	8240x3	0.33	66	48	Φ3/4	Φ1-1/8	Φ1-3/8	18+18+25	25+25+30	694x2+816
GMV-Q336WM/B-U(U)		312,000	320,000	(52-3/4x30-1/8x63-1/4)x3	8240x3	0.33	67	48	Φ3/4	Φ1-1/8	Φ1-3/8	18+25+25	25+30+30	694+816x2
GMV-Q360WM/B-U(U)		334,000	380,000	(52-3/4x30-1/8x63-1/4)x3	8240x3	0.33	67	48	Φ3/4	Φ1-3/8	Φ1-5/8	25+25+25	30+30+30	816x3

*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.

GMV MTAC

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=16.5, HSPF=9.5.
- 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)				Operating range (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	
Build in water pump	Total head lift	In.	137-6/8
Loading quantity	40' GP	set	120
	40' HQ	set	150

WATER-COOLED GMV



GMV Water

Water Source Heat Pump VRF System integrates the advantages of a water system and DC inverter VRF units. It features the high efficiency and energy saving of water-cooled units and the comfortable and flexible characteristics of VRF units. It utilizes renewable sources as the heating and cooling sources. It can be used in coordination with relevant policy projects or energy conservation projects, providing a new air conditioning solution for tall building structures, hotels, office buildings, shopping centers, etc.



6/8/10 Ton



High efficiency



Energy saving function



Quiet function



Wide voltage range



Wide operation range



Modular operating



Comprehensive protection

- An external energy source for water source heat pump VRF system

Gree self-developed water source heat pump VRF system utilizes renewable sources such as water and geo-thermal or ground, with higher operating efficiency and lower energy consumption. The waterside can be a cooling tower or boiler or the application of surface water (river water, lake water, seawater), groundwater, geo-thermal or ground heat, solar power, waste heat, wastewater or other kinds of renewable sources.

- System structure of water source heat pump VRF system

The water source heat pump VRF system is made up of two parts. The first part is the water system that exchanges heat between outdoor units and water/geo-thermal or ground sources. The application of water source/geo-thermal or ground source is varied and can be coordinated with constant-temperature water/geo-thermal or ground, cooling tower or boiler. Compared with the common air-cooled system, it is more energy-saving and space-saving. The second part is the VRF system of outdoor and indoor units, which features the advantages of flexible installation, easy construction, and intelligent control. There is a variety of combinations of indoor units to cope with different applications.

- Suitable for different construction applications, no influence on building appearance

The water source heat pump VRF system is suitable for different constructions, with no influence on building appearance. The water source heat pump VRF air conditioners do not need to exchange heat with the outdoor air, so it can be installed flexibly to coordinate with the building structure.

- No influence of weather

The water source heat pump VRF system exchanges heat with water or geo-thermal or ground source through outdoor units, so it won't be affected by the air temperature. In winter, when the system is in the heating operation, outdoor units won't get frosted or run in defrosting mode, so as to guarantee stable heating performance.

- Same as GMV5, the water source heat pump VRF system adopts CAN communication, so it can be connected with any one type of GMV5 indoor units.



Max. piping length (m(ft.))	GMV Water
Total piping length	300(984-1/4)
Actual piping length	165(541-5/16)
Equivalent piping length	190(623-3/8)
Height difference between indoor units	30(98-7/16)
Height difference between ODU and IDU(ODU is located above the IDU)	50(164-1/16)
Height difference between ODU and IDU(ODU is located below the IDU)	50(164-1/16)
Piping length from first indoor branch to the farthest IDU	40(131-1/4)

Item	Nominal operating condition (temperature)		Operating range (temperature)
	Indoor condition		Water Temp. DB(°F/°C)
	DB(°F/°C)	WB(°F/°C)	GMV Water
Cooling	80/26.7	67/19.4	50~122/10~50
Heating	70/21.1	60/15.6	50~122/10~50

GMV Water Heat Recovery⁴/ Water Heat Pump⁵

Specifications		Model name		
Unit type		GMV-WQ72WM/A-F(U)	GMV-WQ96WM/A-F(U)	GMV-WQ120WM/A-F(U)
Performance				
Rated cooling capacity ¹	Btu/h	69,000	92,000	114,000
Rated heating capacity ¹	Btu/h	77,000	103,000	129,000
Operating water temperature range	Cooling(°F)	50~122		
	Heating(°F)	50~122		
AHRI ratings(ducted/non-ducted) ²	EER	15.0/17.0	14.0/14.5	13.0/13.0
	IEER	26.0/28.0	25.0/26.0	24.0/26.0
	COP	5.2/6.0	5.0/5.0	4.2/5.0
	SCHE	24/27	23/26	22/25
Sound pressure levels	dB(A)	48	50	51
Dimension				
External dimensions (H×W×D)	In.(mm)	(30 11/16×21 5/8×39 3/8)(780×550×1000)		
Net weight	lbs	370	375	377
Refrigerant piping diameter (In.)	Liquid	3/8	3/8	1/2
	Gas (Low Pressure)	3/4	7/8	1-1/8
	Gas (High Pressure)	5/8	3/4	7/8
Max. length from ODU to last header	Ft	541-5/16		
Max. total refrigerant line length	Ft.	984-1/4		
Max. height difference between ODU&IDU	Ft.	164-1/16	295-1/4	
Max. control wiring length	Ft.	3280-5/8		
Electrical data				
Power supply requirement	/	208/230/3/60		
Minimum circuit ampacity (MCA)	A	23	28	38
Maximum overcurrent protection (MOP)	A	25	35	45
Circulating water				
Pressure drop	psi	3.2	5.8	8.6
Operation water volume range	GPM	21~49		
Maximum water pressure	psi	285		
Water side connection inlet and outlet	In	1-1/4		
Other				
Indoor unit	Total Capacity	50%~135%		
	Max Connect-able Quantity	13	16	19
Compressor operating range	%~%	20%~100%		
Compressor type×quantity		Scroll×1		
Refrigerant		R410A		

Note:
 1. Nominal capacity based on 25ft. of equivalent refrigerant piping with 0ft. level difference.
 Cooling: Indoor temperature 80°F/27°C DB, 67°F/19°C WB; entering water temperature 88°F/30°C.
 Heating: Indoor temperature 70°F/26°C DB, 60°F/16°C; entering water temperature 68°F/20°C.
 2. Rated per AHRI 1230 Standard conditions.
 3. GMV water heat pump should be placed at the ambient temperature of 50°F~122°F(10~50°C).
 4. All models of this series are under development. Please confirm the final specifications with the sales representatives.
 5. The Water Heat Recovery series and the Water Heat Pump series are the same models.

ODU Combination Lineup*

Model	GMV-WQ72WM/A-F(U) (6 Ton)	GMV-WQ96WM/A-F(U) (8 Ton)	GMV-WQ120WM/A-F(U) (10 Ton)
GMV-WQ72WM/A-F(U) (6 Ton)	●		
GMV-WQ96WM/A-F(U) (8 Ton)		●	
GMV-WQ120WM/A-F(U) (10 Ton)			●
GMV-WQ144WM/A-F(U) (12 Ton)	● ●		
GMV-WQ168WM/A-F(U) (14 Ton)	●	●	
GMV-WQ192WM/A-F(U) (16 Ton)		● ●	
GMV-WQ216WM/A-F(U) (18 Ton)		●	●
GMV-WQ240WM/A-F(U) (20 Ton)			● ●
GMV-WQ264WM/A-F(U) (22 Ton)	●	● ●	
GMV-WQ288WM/A-F(U) (24 Ton)		● ● ●	
GMV-WQ312WM/A-F(U) (26 Ton)		● ●	●
GMV-WQ336WM/A-F(U) (28 Ton)		●	● ●
GMV-WQ360WM/A-F(U) (30 Ton)			● ● ●

Specifications of ODU Combination*

Model	Power supply V/Ph/Hz	Cooling		Dimension(W×D×H) In.	Connecting		MCA A	MOP A	Weight lbs
		Cooling Btu/h	Heating Btu/h		Liquid pipe In.	Gas pipe In.			
GMV-WQ144WM/A-F(U)	208/230/3/60	144,000	162,000	2sets:30 5/7×21 2/3×39 3/8	3/8"×3/8"	3/4"×3/4"	23+23	25+25	370+370
GMV-WQ168WM/A-F(U)		168,000	189,000	2sets:30 5/7×21 2/3×39 3/8	3/8"×3/8"	3/4"×7/8"	23+28	25+35	370+375
GMV-WQ192WM/A-F(U)		192,000	216,000	2sets:30 5/7×21 2/3×39 3/8	3/8"×3/8"	7/8"×7/8"	26+28	35+35	375+375
GMV-WQ216WM/A-F(U)		216,000	243,000	2sets:30 5/7×21 2/3×39 3/8	3/8"×1/2"	7/8"×1 1/8"	26+38	35+45	375+377
GMV-WQ240WM/A-F(U)		240,000	270,000	2sets:30 5/7×21 2/3×39 3/8	1/2"×1/2"	1 1/8"×1 1/8"	38+38	45+45	377+377
GMV-WQ264WM/A-F(U)		264,000	297,000	3sets:30 5/7×21 2/3×39 3/8	3/8"×3/8"×3/8"	3/4"×7/8"×7/8"	23+28+28	25+35+35	370+375+375
GMV-WQ288WM/A-F(U)		288,000	324,000	3sets:30 5/7×21 2/3×39 3/8	3/8"×3/8"×3/8"	7/8"×7/8"×7/8"	26+28+28	35+35+35	375+375+375
GMV-WQ312WM/A-F(U)		312,000	351,000	3sets:30 5/7×21 2/3×39 3/8	3/8"×3/8"×1/2"	7/8"×7/8"×1 1/8"	28+28+38	35+35+45	375+375+377
GMV-WQ336WM/A-F(U)		336,000	378,000	3sets:30 5/7×21 2/3×39 3/8	3/8"×1/2"×1/2"	7/8"×1 1/8"×1 1/8"	28+38+38	35+45+45	375+377+377
GMV-WQ360WM/A-F(U)		360,000	405,000	3sets:30 5/7×21 2/3×39 3/8	1/2"×1/2"×1/2"	1 1/8"×1 1/8"×1 1/8"	38+38+38	45+45+45	377+377+377

*Note: The combination AHRI listing is not available.

GMV5 Solar



GMV5 Solar Generation II

Gree GMV5 Solar Generation II 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.



- 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.



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	54,000
	Heating	Btu/h	42,000	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 36A 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
	Gas	In.	5/8	5/8
Dimension (W×D×H)	Outline	In.	35-7/16×13-3/8×53	35-7/16×13-3/8×53
	Package	In.	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
	40' HQ	unit	59	59

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
	Heating	Btu/h	77,000	103,000
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	Φ1/2
	Gas	In.	Φ3/4	Φ7/8
	Oil balance	In.	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
	Package	In.	39-3/4×33-1/8×69-7/8	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
	40' HQ	unit	28	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.ahridirectory.org.

Model	GIE-ADC12K6E
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.)

ODU Combination Lineup

Model	GMV-Y72WM/C-F(U) (6Ton)	GMV-Y96WM/C-F(U) (8Ton)	GMV-Y120WM/C-F(U) (10Ton)
GMV-Y72WM/C-F(U) (6Ton)	●		
GMV-Y96WM/C-F(U) (8Ton)		●	
GMV-Y120WM/C-F(U) (10Ton)			●
GMV-Y144WM/C-F(U) (12Ton)**	● ●		
GMV-Y168WM/C-F(U) (14Ton)**	●	●	
GMV-Y192WM/C-F(U) (16Ton)**		● ●	
GMV-Y216WM/C-F(U) (18Ton)**		●	●
GMV-Y240WM/C-F(U) (20Ton)**			● ●
GMV-Y264WM/C-F(U) (22Ton)**	●	● ●	
GMV-Y288WM/C-F(U) (24Ton)**		● ● ●	
GMV-Y312WM/C-F(U) (26Ton)**		● ●	●
GMV-Y336WM/C-F(U) (28Ton)**		●	● ●
GMV-Y360WM/C-F(U) (30Ton)**			● ● ●

*Note: This series is under development. Gree reserves the right to modify the specifications without prior notice.

**Note: There is no AHRI Certificate for modular unit.

Specification of ODU Combination

208V

Model	Power supply V/ Ph /Hz	Capacity		Dimension(W×D×H) In.	Airflow volume CFM	ESP In.W.G	Sound pres- sure dB(A)	Oper- ation sound dB(A)	Connecting pipe		Oil balance In.	MCA A	MOP A	Weight lbs
		Cooling Btu/h	Heating Btu/h						Liquid In.	Gas In.				
GMV-Y144WM/ C-F(U)**	208-3-60	144,000	162,000	(36-5/8×30-1/8×63-1/4)×2	6710×2	0.33	64	48	Φ1/2	Φ1-1/8	Φ3/8	35.3+35.3	45+45	487×2
GMV-Y168WM/ C-F(U)**		168,000	189,000	(36-5/8×30-1/8×63-1/4)+ (52-3/4×30-1/8×63-1/4)	6710+8240	0.33	64	48	Φ5/8	Φ1-1/8	Φ3/8	35.3+43.6	45+45	487+650
GMV-Y192WM/ C-F(U)**		192,000	216,000	(52-3/4×30-1/8×63-1/4)×2	8240×2	0.33	64	48	Φ5/8	Φ1-1/8	Φ3/8	43.6+43.6	45+45	650×2
GMV-Y216WM/ C-F(U)**		216,000	243,000	(52-3/4×30-1/8×63-1/4)×2	8240×2	0.33	65	48	Φ5/8	Φ1-1/8	Φ3/8	43.6+44.8	45+45	650×2
GMV-Y240WM/ C-F(U)**		240,000	270,000	(52-3/4×30-1/8×63-1/4)×2	8240×2	0.33	65	48	Φ5/8	Φ1-3/8	Φ3/8	44.8+44.8	45+45	650×2
GMV-Y264WM/ C-F(U)**		264,000	297,000	(36-5/8×30-1/8×63-1/4)+ (52-3/4×30-1/8×63-1/4)×2	6710+8240×2	0.33	66	48	Φ3/4	Φ1-3/8	Φ3/8	35.3+43.6+43.6	45+45+45	487+650×2
GMV-Y288WM/ C-F(U)**		288,000	324,000	(52-3/4×30-1/8×63-1/4)×3	8240×3	0.33	66	48	Φ3/4	Φ1-3/8	Φ3/8	43.6+43.6+43.6	45+45+45	650×3
GMV-Y312WM/ C-F(U)**		312,000	351,000	(52-3/4×30-1/8×63-1/4)×3	8240×3	0.33	66	48	Φ3/4	Φ1-3/8	Φ3/8	43.6+43.6+44.8	45+45+45	650×3
GMV-Y336WM/ C-F(U)**		336,000	378,000	(52-3/4×30-1/8×63-1/4)×3	8240×3	0.33	67	48	Φ3/4	Φ1-3/8	Φ3/8	43.6+44.8+44.8	45+45+45	650×3
GMV-Y360WM/ C-F(U)**		360,000	405,000	(52-3/4×30-1/8×63-1/4)×3	8240×3	0.33	67	48	Φ3/4	Φ1-5/8	Φ3/8	44.8+44.8+44.8	45+45+45	650×3

240V

Model	Power supply V/ Ph /Hz	Capacity		Dimension(W×D×H) In.	Airflow volume CFM	ESP In.W.G	Sound pres- sure dB(A)	Oper- ation sound dB(A)	Connecting pipe		Oil balance Pipe In.	MCA A	MOP A	Weight lbs
		Cooling Btu/h	Heating Btu/h						Liquid In.	Gas In.				
GMV-Y144WM/ C-F(U)**	240-3-60	144,000	162,000	(36-5/8×30-1/8×63-1/4)×2	6710×2	0.33	64	48	Φ1/2	Φ1-1/8	Φ3/8	30.3+30.3	40+40	487×2
GMV-Y168WM/ C-F(U)**		168,000	189,000	(36-5/8×30-1/8×63-1/4)+ (52-3/4×30-1/8×63-1/4)	6710+8240	0.33	64	48	Φ5/8	Φ1-1/8	Φ3/8	30.3+37.3	40+40	487+650
GMV-Y192WM/ C-F(U)**		192,000	216,000	(52-3/4×30-1/8×63-1/4)×2	8240×2	0.33	64	48	Φ5/8	Φ1-1/8	Φ3/8	37.3+37.3	40+40	650×2
GMV-Y216WM/ C-F(U)**		216,000	243,000	(52-3/4×30-1/8×63-1/4)×2	8240×2	0.33	65	48	Φ5/8	Φ1-1/8	Φ3/8	37.3+39.8	40+40	650×2
GMV-Y240WM/ C-F(U)**		240,000	270,000	(52-3/4×30-1/8×63-1/4)×2	8240×2	0.33	65	48	Φ5/8	Φ1-3/8	Φ3/8	39.8+39.8	40+40	650×2
GMV-Y264WM/ C-F(U)**		264,000	297,000	(36-5/8×30-1/8×63-1/4)+ (52-3/4×30-1/8×63-1/4)×2	6710+8240×2	0.33	66	48	Φ3/4	Φ1-3/8	Φ3/8	30.3+37.3+37.3	40+40+40	487+650×2
GMV-Y288WM/ C-F(U)**		288,000	324,000	(52-3/4×30-1/8×63-1/4)×3	8240×3	0.33	66	48	Φ3/4	Φ1-3/8	Φ3/8	37.3+37.3+37.3	40+40+40	650×3
GMV-Y312WM/ C-F(U)**		312,000	351,000	(52-3/4×30-1/8×63-1/4)×3	8240×3	0.33	66	48	Φ3/4	Φ1-3/8	Φ3/8	37.3+37.3+39.8	40+40+40	650×3
GMV-Y336WM/ C-F(U)**		336,000	378,000	(52-3/4×30-1/8×63-1/4)×3	8240×3	0.33	67	48	Φ3/4	Φ1-3/8	Φ3/8	37.3+39.8+39.8	40+40+40	650×3
GMV-Y360WM/ C-F(U)**		360,000	405,000	(52-3/4×30-1/8×63-1/4)×3	8240×3	0.33	67	48	Φ3/4	Φ1-5/8	Φ3/8	39.8+39.8+39.8	40+40+40	650×3

Note: This series are under development. Please confirm the final specifications with the sales representatives.

**Note: There is no AHRI Certificate for modular unit.

Ultra Heat GMV



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	102
Super 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						●					●				●				●	●

Super 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 (0.3In.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.

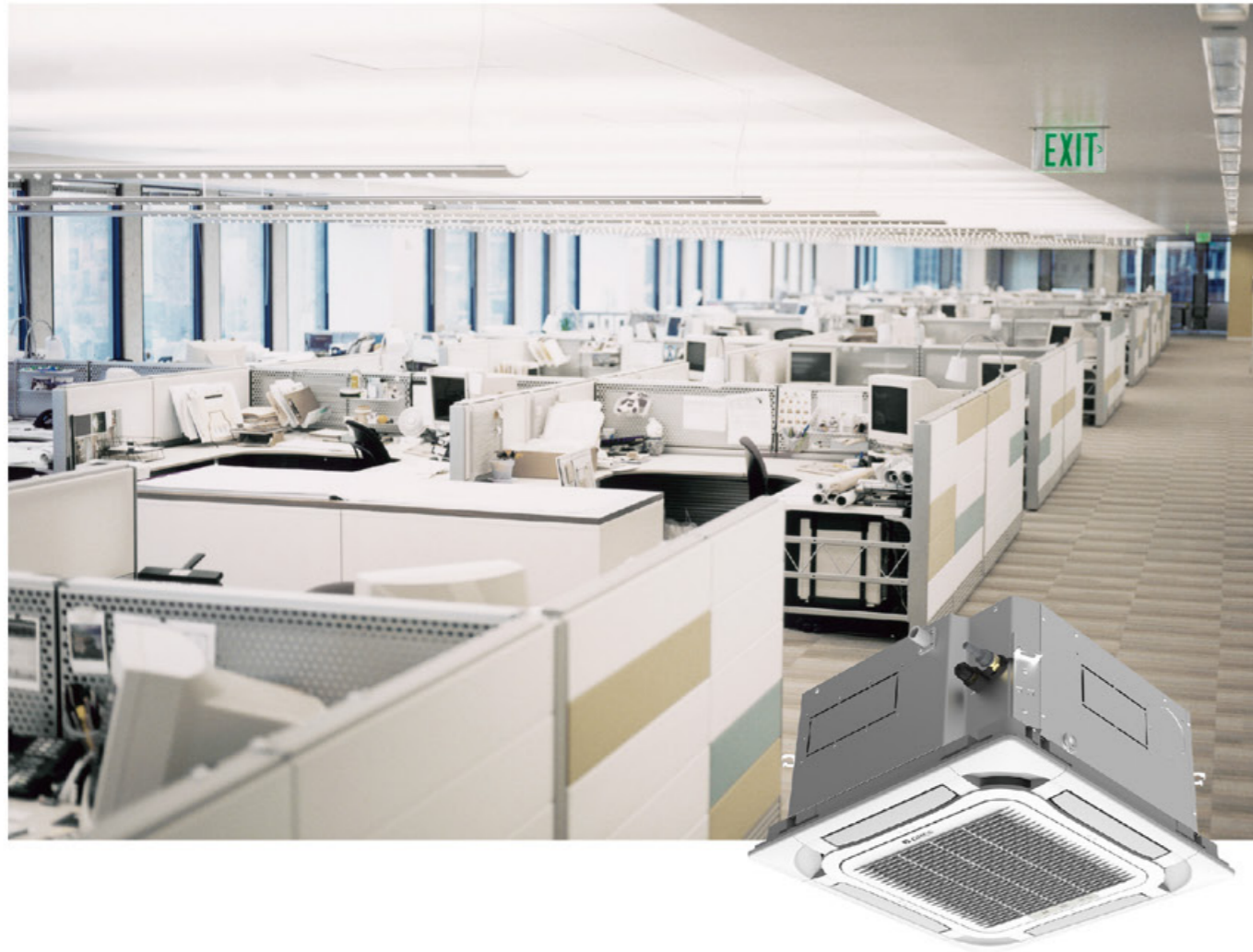
Note: * This function is custom-made.

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).
- 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.
- 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.

Note: This series is under development.

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 deep ceiling.
- High drain pump lift**
 Drain pump lift reaches 1.2m (47-1/4 inches), which can effectively drain out water.
- Detachable grille and long-life filter**
 A grille is detachable for easy cleaning. With durable filter, the cleaning cycle is 20 times longer.
- 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.

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

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

- **Protection function**

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

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.

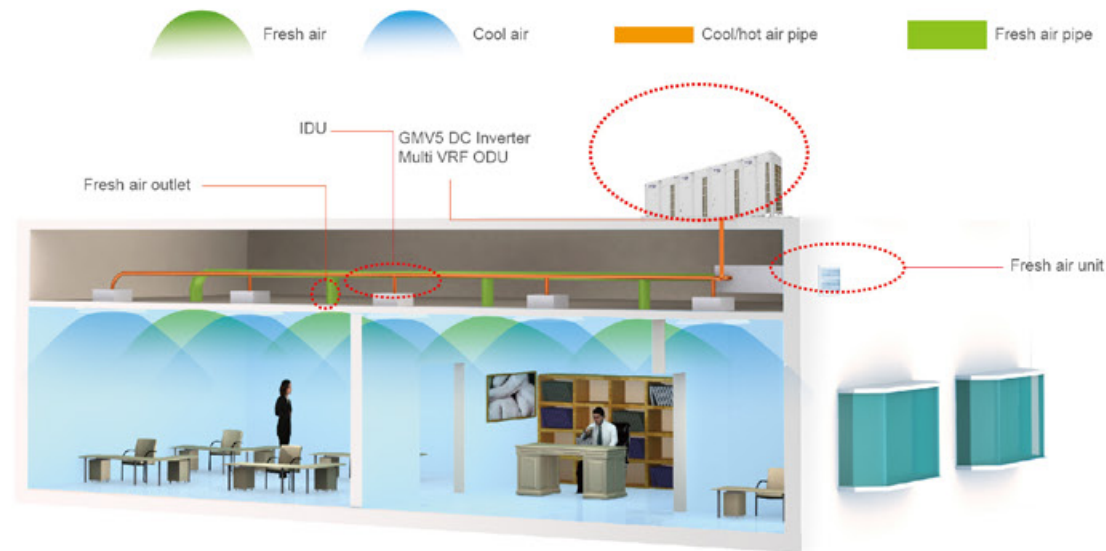
Fresh Air Processing Unit

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.



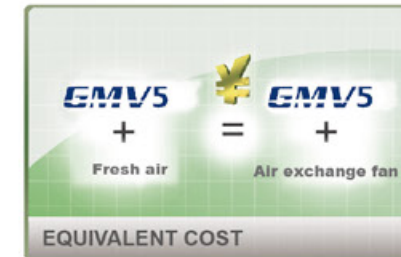
Enjoy fresh air

- 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.



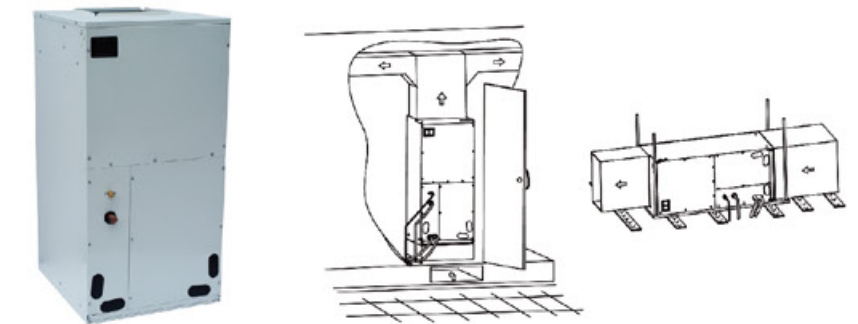
Air conditioning and fresh air, two in one

- 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.



Super 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	86	42	51	106
Airflow volume(H/M/L)	m ³ /h		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-ND38PHS/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)	m ³ /h		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-ND72PHS/B-T(U)	GMV-ND96PHS/B-T(U)
Capacity	Cooling	Btu/h	48,000	54,000	72,000	96,000
	Heating	Btu/h	54,000	60,000	81,000	108,000
Power supply	V/Ph/Hz		208/230/1/60			
Power consumption	W		287	287	530	670
Airflow volume(H/M/L)	m ³ /h		2350/1900/1650	2500/2000/1750	4000/3200/2800	4300/3600/3200
	CFM		1383/1118/971	1471/1177/1030	2355/1885/1650	2530/2120/1885
MCA	A		1.7	1.7	5.7	6.8
MOP	A		15	15	15	15
ESP	In.W.G		0.36/0-0.8	0.36/0-0.8	0.52/0.2-0.98	0.8/0.2-1.10
Sound pressure level(H/M/L)	dB(A)		46/43/41	47/44/42	48/45/44	48/46/45
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	1-3/16	1-3/16
	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	48-3/4×41×18-1/2	48-3/4×41×18-1/2
	Package	In.	66-1/16×31-13/16×14-3/8	66-1/16×31-13/16×14-3/8	59-7/8×45-3/8×23-7/8	59-7/8×45-3/8×23-7/8
Net weight/Gross weight	lbs		128/148	128/148	223/331	236/340
Loading quantity	40' GP	set	84	84	45	45
	40' HQ	set	98	98	60	60

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			
Power input	W		130	130	170	170
Airflow volume (H/M/L)	m ³ /h		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	0.2	0.2	0.2
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)	GMV-ND12PLS/B1-T(U)	GMV-ND14PLS/B1-T(U)	GMV-ND18PLS/B1-T(U)	GMV-ND24PLS/B1-T(U)
Capacity	Cooling	Btu/h	5800	7500	9500	12,000	15,000	18,000	24,000
	Heating	Btu/h	6200	8500	10,500	13,500	17,000	20,000	27,000
Power supply	V/Ph/Hz		208/230/1/60						
Power consumption	W		28	28	28	37	40	55	55
Airflow volume (H/M/L)	m ³ /h		450/350/200	450/350/200	450/350/200	550/400/300	750/550/400	850/700/550	1100/850/650
	CFM		265/206/118	265/206/118	265/206/118	324/235/177	441/324/235	500/412/324	647/500/383
MCA	A		1	1	1	1	1	1	1
MOP	A		15	15	15	15	15	15	15
ESP	In.W.G		0.06-0.12	0.06-0.12	0.06-0.12	0.06-0.12	0.06-0.12	0.06-0.12	0.06-0.12
Sound pressure level(H/M/L)	dB(A)		30/25/22	30/25/22	30/25/22	31/27/25	33/29/27	35/31/29	37/32/30
Connecting pipe	Liquid	In.	φ1/4	φ1/4	φ1/4	φ1/4	φ1/4	φ3/8	φ3/8
	Gas	In.	φ3/8	φ3/8	φ3/8	φ1/2	φ1/2	φ5/8	φ5/8
Drain pipe	External dia.	In.	φ1	φ1	φ1	φ1	φ1	φ1	φ1
	Thickness	In.	3/32	3/32	3/32	3/32	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	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	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	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		41/52	41/52	41/52	42/53	55/68	55/68	68/83
Loading quantity	40'GP	set	352	352	352	352	272	272	224
	40'HQ	set	396	396	396	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)	GMV-ND18T/C-T(U)
Capacity	Cooling	Btu/h	7500	9500	12000	15000	18000
	Heating	Btu/h	8500	10500	13500	17000	20000
Power supply	V/Ph/Hz		208/230/1/60				
Power consumption	W		26	26	26	26	35
Airflow volume(H/M/L)	m ³ /h		800/700/600	800/700/600	800/700/600	800/700/600	950/850/750
	CFM		470/410/355	470/410/355	470/410/355	470/410/355	560/550/440
Rated current	Cooling	A	0.2	0.2	0.2	0.2	0.2
	Heating	A	0.2	0.2	0.2	0.2	0.2
Sound pressure level(H/M/L)	dB(A)		34/32/30	34/32/30	34/32/30	34/32/30	38/36/33
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.	33-1/8×33-1/8×9-1/2	33-1/8×33-1/8×9-1/2	33-1/8×33-1/8×9-1/2	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	37-7/8×37-7/8×12-3/4
	Net weight/Gross weight	lbs	64/82	64/82	64/82	64/82	64/82
Panel	Dimension (W×D×H)	Outline	In.	37-3/8×37-3/8×2-1/2	37-3/8×37-3/8×2-1/2	37-3/8×37-3/8×2-1/2	37-3/8×37-3/8×2-1/2
		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	40-7/8×40-5/8×4-3/8
	Net weight/Gross weight	lbs	13/21	13/21	13/21	13/21	13/21
Loading quantity	40' GP	set	120	120	120	120	120
	40' HQ	set	140	140	140	140	140

Model			GMV-ND22T/C-T(U)	GMV-ND24T/C-T(U)	GMV-ND30T/C-T(U)	GMV-ND36T/C-T(U)	GMV-ND42T/C-T(U)	GMV-ND48/C-T(U)
Capacity	Cooling	Btu/h	22000	24000	30000	38000	42000	48000
	Heating	Btu/h	24000	27000	34000	40000	47000	54000
Power supply	V/Ph/Hz		208/230/1/60					
Power consumption	W		60	60	85	85	115	115
Airflow volume(H/M/L)	m ³ /h		950/850/750	1150/950/850	1250/1000/900	1500/1200/1000	1650/1300/1100	1650/1300/1100
	CFM		560/550/440	675/560/500	735/590/530	885/705/590	970/765/645	970/765/645
Rated current	Cooling	A	0.2	0.4	0.4	0.4	0.5	0.6
	Heating	A	0.2	0.4	0.4	0.4	0.5	0.6
Sound pressure level(H/M/L)	dB(A)		38/36/33	38/36/34	39/37/34	43/39/37	45/41/39	45/41/39
Connecting pipe	Liquid	In.	φ 3/8	φ 3/8	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	φ 5/8	φ 5/8
Drain pipe	External dia.	In.	φ 1	φ 1	φ 1	φ 1	φ 1	φ 1
	Thickness	In.	3/32	3/32	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	33-1/8×33-1/8×11-3/8	33-1/8×33-1/8×11-3/8
		Package	In.	37-7/8×37-7/8×12-3/4	37-7/8×37-7/8×12-3/4	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	64/82	64/82	73/93	73/93	73/93	73/93
Panel	Dimension (W×D×H)	Outline	In.	37-3/8×37-3/8×2-1/2	37-3/8×37-3/8×2-1/2	37-3/8×37-3/8×2-1/2	37-3/8×37-3/8×2-1/2	37-3/8×37-3/8×2-1/2
		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	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	13/21	13/21	13/21
Loading quantity	40' GP	set	120	120	120	120	120	120
	40' HQ	set	140	140	140	140	140	140

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)	m ³ /h		480/420/370	500/480/370	570/480/420	620/550/480	730/650/560	730/650/580
	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	38/33/28	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	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	6.8/10	6.8/10	6.8/10	6.8/10	6.8/10	6.8/10
Loading quantity	40' GP	set	378	378	378	378	378	378
	40' HQ	set	432	432	432	432	432	432

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)	m ³ /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	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	51-1/2×19-3/4×12-3/16
	Net weight/Gross weight	lbs	44/60	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	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	49-13/16×21-1/8×4-3/4
	Net weight/Gross weight	lbs	9.3/13.2	9.3/13.2	9.3/13.2	
Loading quantity	40' GP	set	138	138	138	
	40' HQ	set	138	138	138	

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		208/230/1/60		
Power consumption	W		20	20	30	30	55
Airflow volume(H/M/L)	m ³ /h		670/620/510	670/620/510	720/620/510	760/710/670	820/745/660
	CFM		550/505/415	550/505/415	590/505/415	620/580/540	670/610/540
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	35/31/28	37/34/32
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.	31×24-3/4×11	31×24-3/4×11	31×24-3/4×11	31×24-3/4×11
		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	55/72	55/72	55/72	57/74	57/74
Panel	Dimension (W×D×H)	Outline	In.	43-1/4×28×1-1/8	43-1/4×28×1-1/8	43-1/4×28×1-1/8	43-1/4×28×1-1/8
		Package	In.	48-3/8×33-2/8×5-1/8	48-3/8×33-2/8×5-1/8	48-3/8×33-2/8×5-1/8	48-3/8×33-2/8×5-1/8
	Net weight/Gross weight	lbs	13/23	13/23	13/23	13/23	13/23
Loading quantity	40' GP	set	144	144	144	144	144
	40' HQ	set	166	166	166	166	166

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

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			
Power input	W		20	20	20	25
Airflow volume (H/M/L)	m ³ /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				
Power input	W		35	50	65	80	100
Airflow volume (H/M/L)	m ³ /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		38	38	38	38
Airflow volume (H/M/L)	m ³ /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.	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 1-1/9	Φ 1-1/9	Φ 1-1/9	Φ 1-1/9
	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/A-T(U)	GMV-ND12ZD/A-T(U)	GMV-ND18ZD/A-T(U)	GMV-ND24ZD/A-T(U)
Capacity	Cooling	Btu/h	9500	12,000	18,000	24,000
	Heating	Btu/h	10,500	13,500	20,000	27,000
Power supply	V/Ph/Hz		208/230/1/60			
Power consumption	W		40	40	50	75
Airflow volume(H/M/L)	m ³ /h		650/585/520	650/585/520	950/885/890	1400/1150/1085
	CFM		360/345/305	360/345/305	560/510/410	825/675/640
MCA	A		1	1	1	1
MOP	A		15	15	15	15
Sound pressure level(H/M/L)	dB(A)		36/34/32	36/34/32	42/38/33	44/42/39
Connecting pipe	Liquid	In.	Φ1/4	Φ1/4	Φ3/8	Φ3/8
	Gas	In.	Φ3/8	Φ1/2	Φ5/8	Φ5/8
Drain pipe	External dia.	In.	Φ11/16	Φ11/16	Φ11/16	Φ11/16
	Thickness	In.	1/16	1/16	1/16	1/16
Dimension (W×D×H)	Outline	In.	48×27-9/16×8-7/8	48×27-9/16×8-7/8	48×27-9/16×8-7/8	55-7/8×27-9/16×9-5/8
	Package	In.	52-7/8×32-3/8×12-3/8	52-7/8×32-3/8×12-3/8	52-7/8×32-3/8×12-3/8	60-15/16×32-5/8×13-9/16
Net weight/Gross weight	lbs		88/108	88/108	88/108	110/128
Loading quantity	40' GP	set	145	145	145	90
	40' HQ	set	158	158	158	98

Model		-	GMV-ND30ZD/A-T(U)	GMV-ND36ZD/A-T(U)	GMV-ND42ZD/A-T(U)	GMV-ND48ZD/A-T(U)
Capacity	Cooling	Btu/h	30,000	36,000	42,000	48,000
	Heating	Btu/h	33,000	40,000	47,000	54,000
Power supply	V/Ph/Hz		208/230/1/60			
Power consumption	W		140	160	160	160
Airflow volume(H/M/L)	m ³ /h		1800/1445/1183	2000/1600/1282	2000/1813/1452	2000/1813/1452
	CFM		940/850/695	1180/904/755	1180/1065/855	1180/1065/855
MCA	A		1	1	1	1
MOP	A		15	15	15	15
Sound pressure level(H/M/L)	dB(A)		50/47/43	51/47/42	52/49/45	52/49/45
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.	Φ11/16	Φ11/16	Φ11/16	Φ11/16
	Thickness	In.	1/16	1/16	1/16	1/16
Dimension (W×D×H)	Outline	In.	55-7/8×27-9/16×9-5/8	66-15/16×27-9/16×9-5/8	66-15/16×27-9/16×9-5/8	66-15/16×27-9/16×9-5/8
	Package	In.	60-15/16×32-5/8×13-9/16	71-15/16×32-5/8×13-9/16	71-15/16×32-5/8×13-9/16	71-15/16×32-5/8×13-9/16
Net weight/Gross weight	lbs		110/128	132/150	132/150	132/150
Loading quantity	40' GP	set	90	84	84	84
	40' HQ	set	98	98	98	98

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)	m ³ /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
Drain 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	70.8/83.8
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)	m ³ /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
Drain 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/A-T(U)	GMV-ND12A/A-T(U)	GMV-ND18A/A-T(U)	GMV-ND24A/A-T(U)
Capacity	Cooling	Btu/h	9500	12,000	18,000	24,000
	Heating	Btu/h	10,500	13,500	20,000	27,000
Power supply	V/Ph/Hz		208/230-1-60			
Power input	W		55	55	130	130
Airflow volume (H/M/L)	m ³ /h		950/650/550	950/650/550	1400/1200/950	1400/1200/950
	CFM		559/383/324	559/383/324	824/706/559	824/706/559
MCA	A		1.4	1.4	1.4	1.4
MOP	A		15	15	15	15
ESP	In.W.G		0.1/0-0.3	0.1/0-0.3	0.1/0-0.3	0.1/0-0.3
Sound pressure level(H/M/L)	dB(A)		36/34/32	36/34/32	45/43/41	45/43/41
Connecting pipe	Liquid	In.	Φ1/4	Φ1/4	Φ3/8	Φ3/8
	Gas	In.	Φ3/8	Φ1/2	Φ5/8	Φ5/8
Drain pipe	Thread specification		G1	G1	G1	G1
Dimension (W×D×H)	Outline	In.	18-1/8×21-1/4×43-1/2	18-1/8×21-1/4×43-1/2	18-1/8×21-1/4×43-1/2	18-1/2×21-1/4×43-1/2
	Package	In.	20-3/8×24-3/8×46-1/8	20-3/8×24-3/8×46-1/8	20-3/8×24-3/8×46-1/8	20-3/8×24-3/8×46-1/8
Net weight/Gross weight	Lbs		119/128	119/128	124/135	124/135
Loading quantity	40'GP	set	164	164	164	164
	40'HQ	set	172	172	172	172

Model			GMV-ND30A/A-T(U)	GMV-ND36A/A-T(U)	GMV-ND42A/A-T(U)	GMV-ND48A/A-T(U)	GMV-ND54A/A-T(U)
Capacity	Cooling	Btu/h	30,000	36,000	42,000	48,000	54,000
	Heating	Btu/h	34,000	40,000	47,000	54,000	60,000
Power supply	V/Ph/Hz		208/230-1-60				
Power input	W		190	300	390	440	450
Airflow volume (H/M/L)	m ³ /h		1500/1200/950	2300/2000/1700	2450/2150/1900	2750/2550/2300	2850/2650/2300
	CFM		882/706/559	1353/1176/1000	1441/1265/1118	1618/1500/1353	1678/1559/1353
MCA	A		1.8	3.3	3.4	4.3	4.4
MOP	A		15	15	15	15	15
ESP	In.W.G		0.15/0-0.3	0.15/0-0.4	0.15/0-0.4	0.2/0-0.5	0.2/0-0.5
Sound pressure level(H/M/L)	dB(A)		46/44/42	49/47/45	50/48/46	51/49/47	52/50/48
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	Thread specification		G1	G1	G1	G1	G1
Dimension (W×D×H)	Outline	In.	18-1/2×21-1/4×43-1/2	21-1/4×21-1/4×48-1/4	21-1/4×21-1/4×48-1/4	24-7/8×21-1/4×48-1/4	24-7/8×21-1/4×48-1/4
	Package	In.	20-3/8×24-3/8×46-1/8	23-1/2×24-3/8×50-3/4	23-1/2×24-3/8×50-3/4	27×24-1/2×51	27×24-1/2×51
Net weight/Gross weight	lbs		124/135	148/159	148/159	179/192	179/192
Loading quantity	40' GP	set	164	85	85	85	85
	40' HQ	set	172	114	114	114	114

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)	m ³ /h		680/578/476	714/612/510	1444/1291/1088	1495/1359/1172	1548/1393/1206
	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	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

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 input	W		430	430	770	770	770
Airflow volume (H/M/L)	m ³ /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	5	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	48/44/43	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		G1	G1	G1	G1	G1
Dimension (W×D×H)	Outline	In.	21-1/4x21-1/4x48-1/4	21-1/4x21-1/4x48-1/4	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

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

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)	m ³ /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-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	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	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	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	Φ7/8	Φ1-1/8	Φ1-1/8	Φ1-1/8	Φ1-1/8	Φ1-3/8
Connection method		Braze Connection			Braze Connection			Braze Connection			Braze Connection				Braze 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.

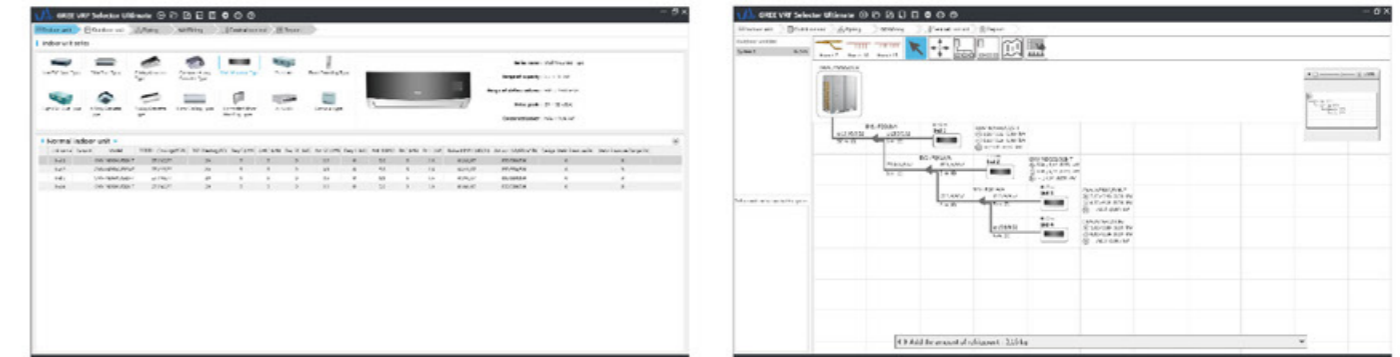
Intelligent Model Selection

- 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.



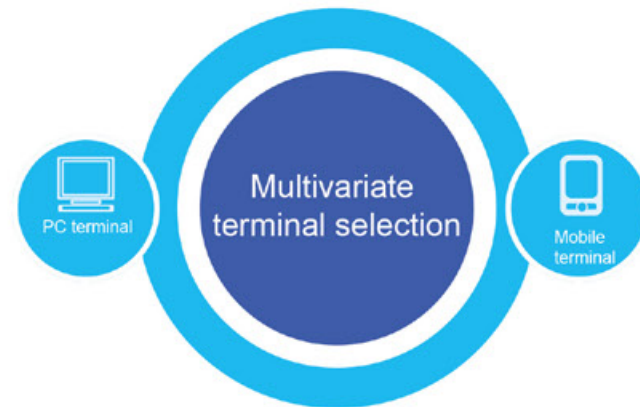
Fast Model Selection

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.



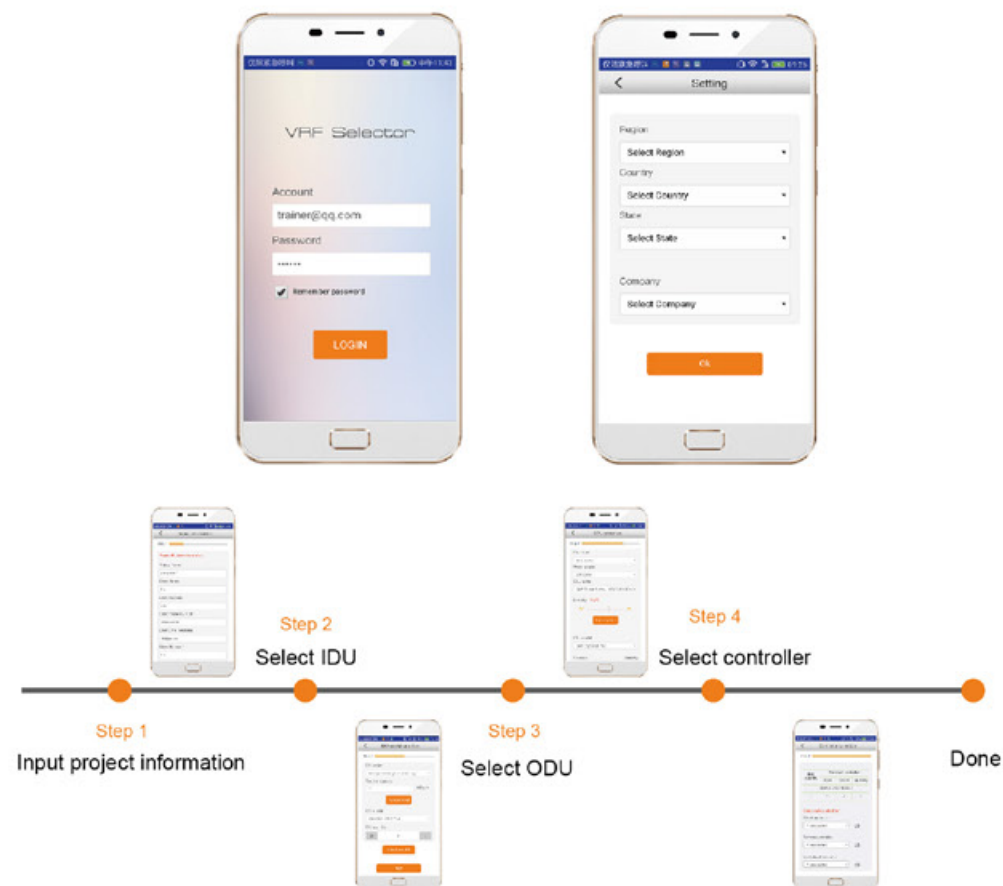
Multivariate Model Selection

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.

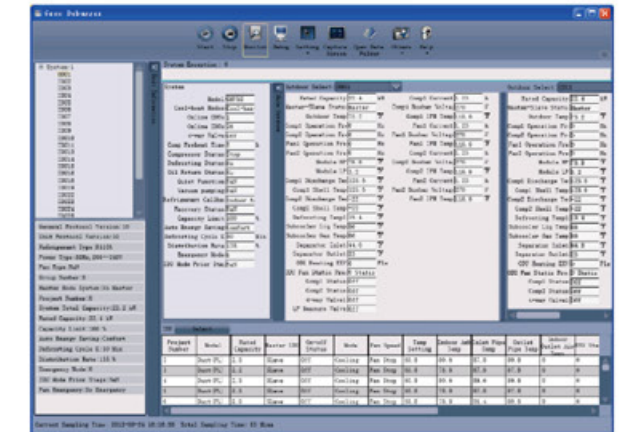


Intelligent Debugging Software

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;



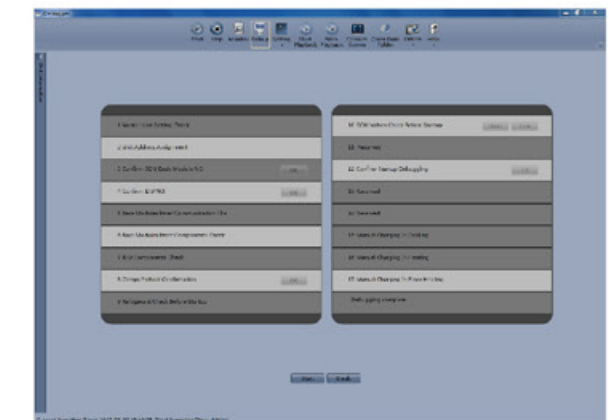
Control functions

- 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;

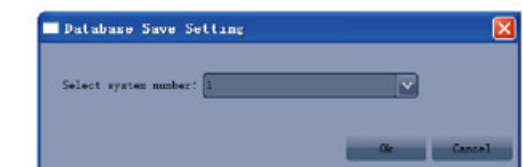


Auto data-saving function

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



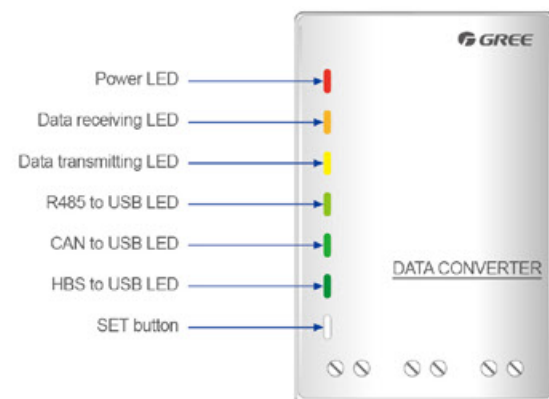
Step 1: Change Database Saving Path



Step 2: Database Save Setting

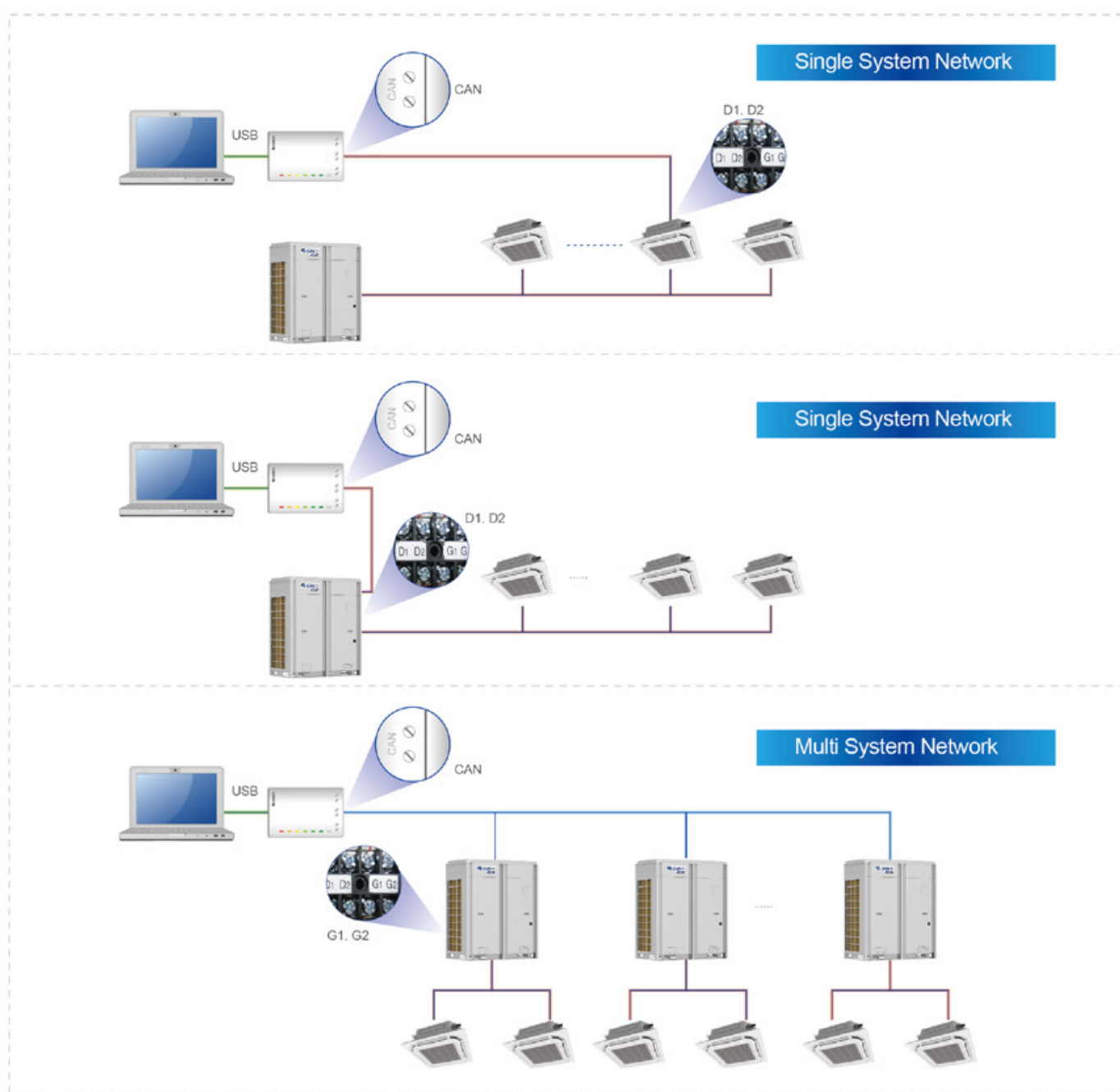
USB data converter

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



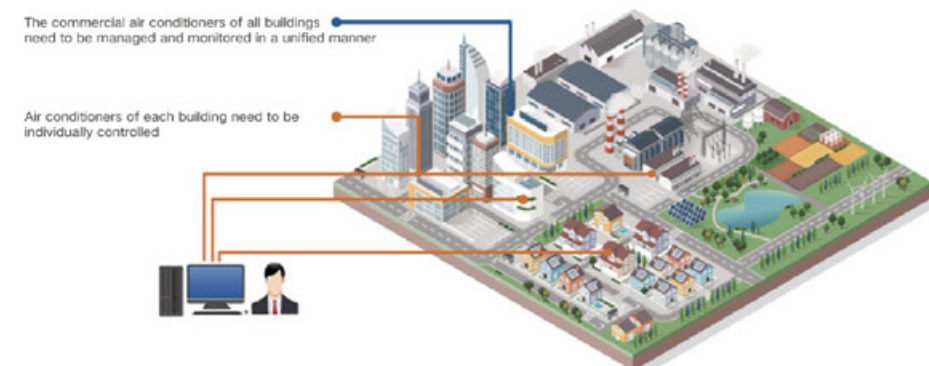
Auto direction of connection way

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

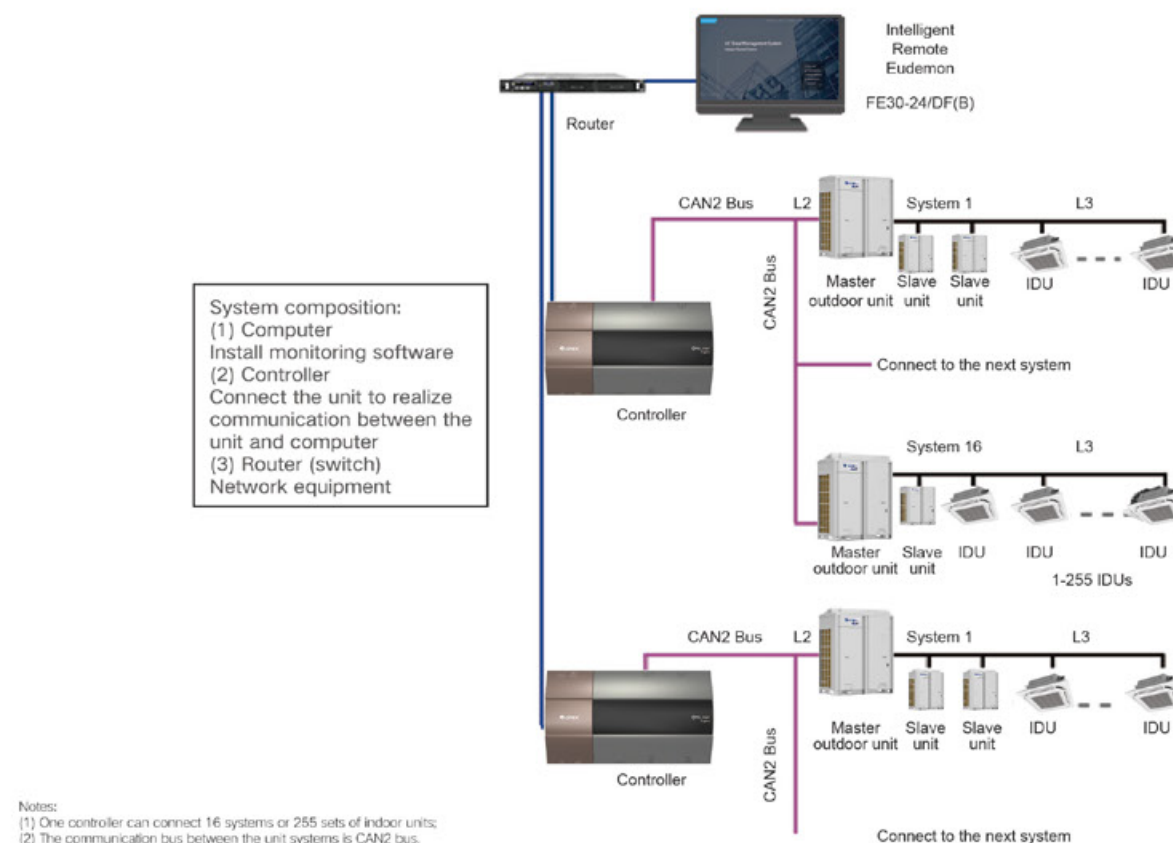


Intelligent Remote Eudemon

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.



Intelligent Assistant

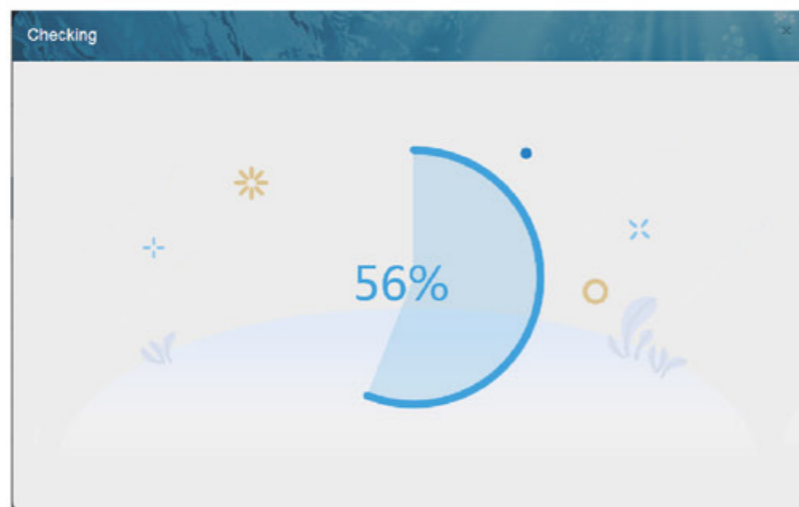
One-stop Debugging

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.



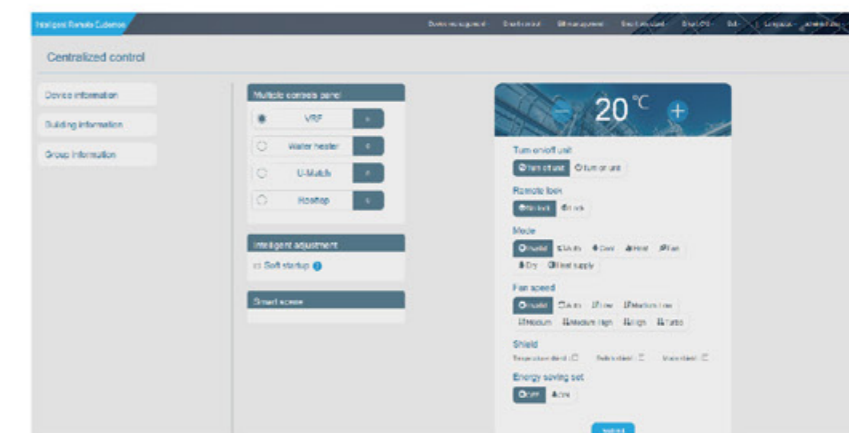
Intelligent Physical Examination

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



Soft Start

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



Temperature Field

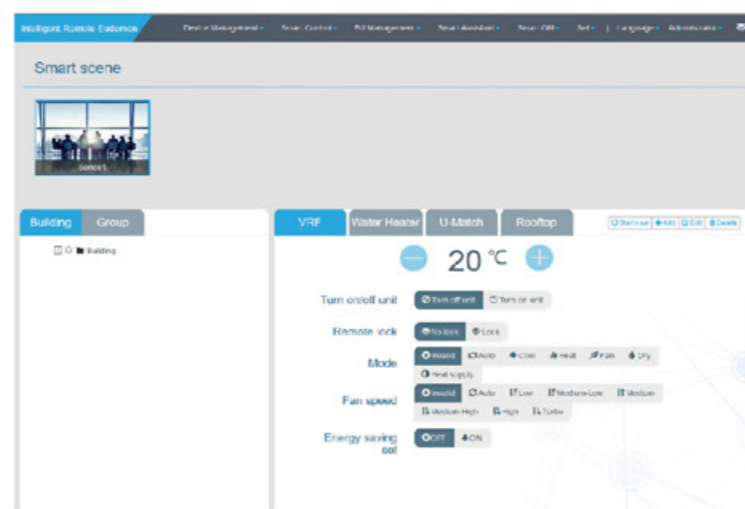
Realize stepped temperature field, gradually adjust the temperature area, prevent sudden cooling or heating, and stay away from air conditioning sickness.



Intelligent Control

Smart Scenes

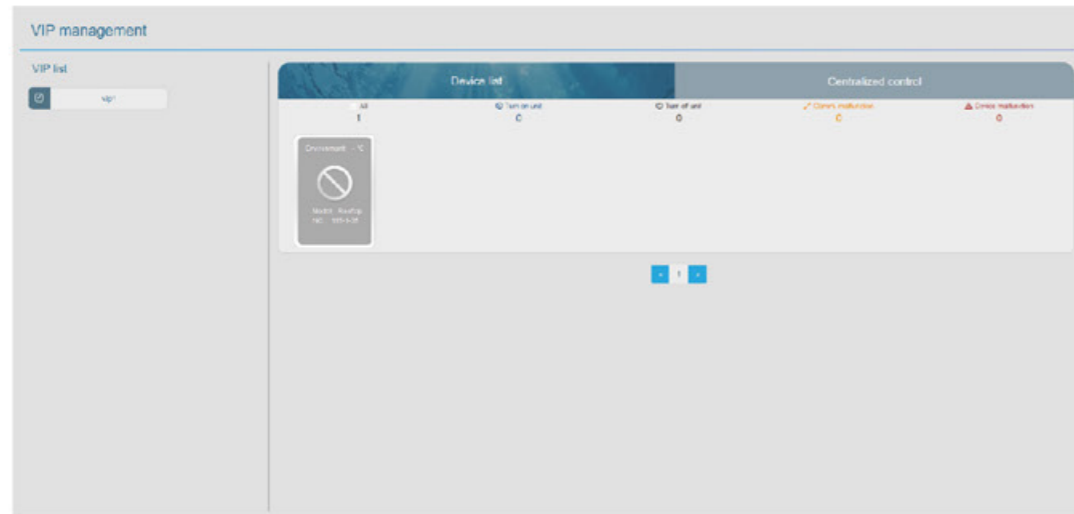
The user can preset a set of parameters according to the needs of life and work (similar to the scene mode of a mobile phone), and then the user can enable and switch with one key, without setting parameters one by one.



Smart Operation and Maintenance

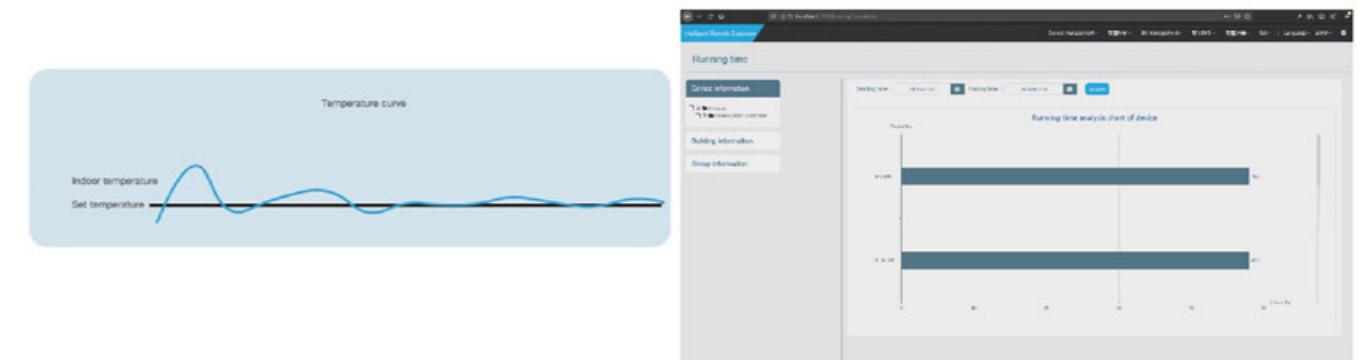
VIP Exclusive Service

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



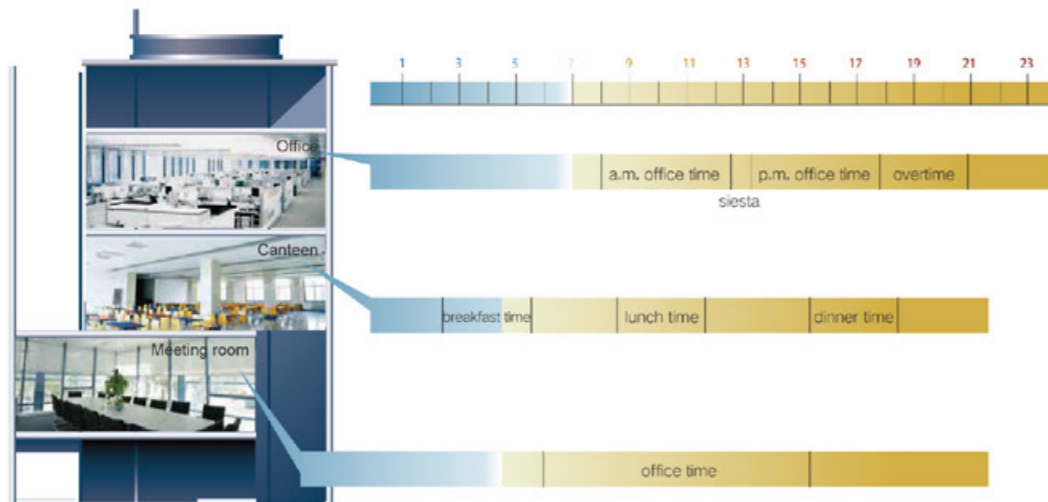
Green Assistant

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



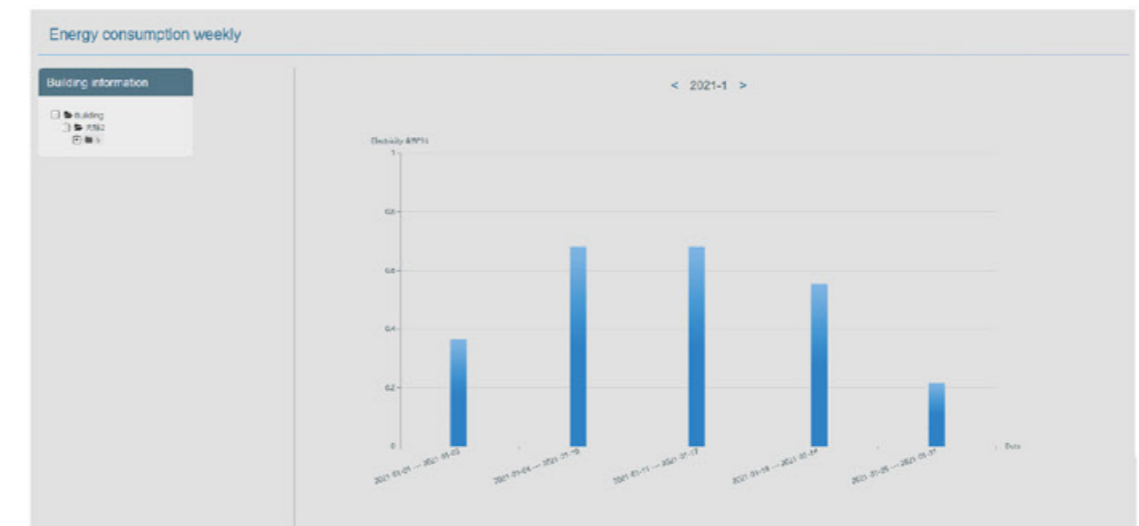
Schedule Management

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



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.

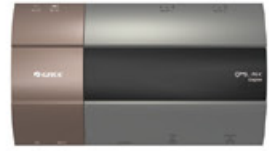


Bill for Air Conditioner				
Room	601			
Time	2016/08/01-2016/08/31			
No.	Equipment	Operation/KWH	Standby/KWH	Subtotal
1	IDU 1	12.5	0.55	13.05
2	IDU 2	11.6	0.21	11.81
3	IDU 3	13.2	0.36	13.56
Total				38.42

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

Building Protocol Gateway

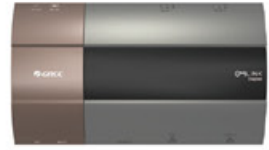
Modbus Gateway

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.	

KNX Gateway

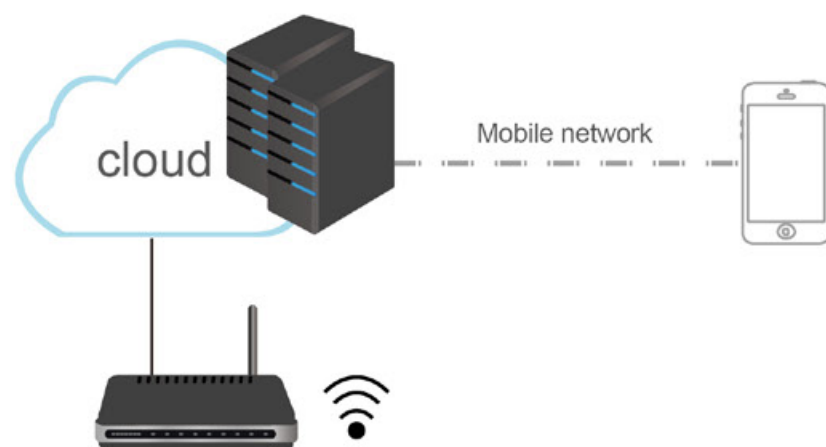
KNX gateway can realize the conversion of multi VRF indoor unit HBS protocol data to KNX protocol data. It is mainly used in hotels, households and other environments to achieve docking with room control units or smart homes.

- Standard KNX equipment, easy to install and configure
- Bus power supply, carrier communication
- Preset multiple scene modes and support user self-editing
- Support the monitoring of equipment's status information and error information
- CE, ETL, KNX certificates

Name	Model	Key Parameters	Application	Photo
S2S KNX Gateway	ME30-24/F1(K)	Capacity: 1-16 sets of indoor units Expansion port: No Protocol: KNX	It is generally used in hotels and smart home systems to ensure that the intelligent system directly connects to indoor units and realizes equipment integration in a small area.	

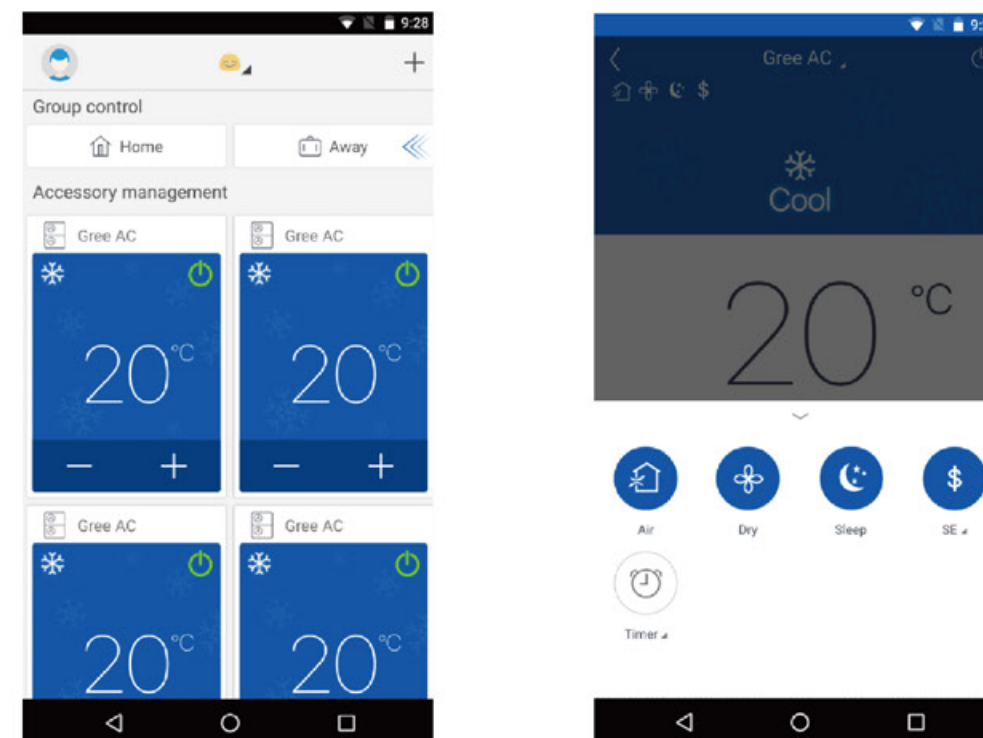
G-Cloud

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 XK46



- Moisture-proof design;
- LCD with black background and white words; touch buttons;
- Clock can be displayed and set; 24 hours timer setting for on/off;
- 7 levels of fan speed, up & down swing and left & right swing;
- Can be switched in auto, cooling, dry, fan, heating, floor heating, 3D heating and space heating operation modes;
- Master and slave wired controllers can be set; simultaneous control over several IDUs is available; control max. 16 sets of IDUs at the same;
- Available functions: sleep, ventilation, quiet/auto quiet, light, energy saving, X-fan, memory, low-temperature dehumidifying, absence in heating, filter cleaning reminder, etc.;
- Detect ambient temperature; receive infrared remote controller signal;
- With project parameters viewing and setting functions.

Wired Controller XK55



- With project parameters viewing and setting functions;
- HD color dot matrix LCD, good-looking and user-friendly;
- 7 levels of fan speed, up&down swing and left&right swing;
- Detect ambient temperature;
- Capacitive touch screen, and supports infrared remote control signal reception;
- Can be switched in auto, cooling, dry, fan, heating, floor heating, 3D heating and space heating operation modes;
- Master and slave wired controllers can be set; simultaneous control over several IDUs is available; can simultaneously control 16 sets of IDUs at most;
- Sleep, ventilation, quiet/auto quiet, light, energy saving, X-fan, memory, low-temperature dehumidifying, absence in heating, and filter cleaning reminder functions can be set;
- Complete timer function, three weekly timers and one countdown can be set simultaneously;
- Under weekly timer function, mode, temperature and fan speed can be preset;
- Simple and decent appearance, bottom case 86 box design for convenient engineering installation.

Wired Controller XK79



- Small and fashionable appearance with thickness of only 12mm, backlighting LCD with black background and white words, touch buttons;
- Clock can be displayed and set in countdown and clock timer;
- 7 levels of fan speed, up & down swing and left & right swing;
- Can be switched in auto, cooling, dry, fan, heating, floor heating, 3D heating and space heating operation modes;
- Master and slave wired controllers can be set; simultaneous control over several IDUs is available; can control max. 16 sets of IDUs at the same;
- Detect ambient temperature; receive infrared remote controller signal;
- With project parameters viewing and setting functions;
- Door control system can be connected, and door card can control ON/OFF of air conditioner;
- 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 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 service hotline inquiry and after-sales phone number record functions;
- With weekly timer function, multiple weekly timer can be set; under weekly timer function, mode, temperature and fan speed can be preset;
- 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 Controller XE76-33/H



- Elegant and concise appearance;
- Touch buttons with backlighting LCD;
- Chinese and English display can be switched;
- With weekly timer function;
- Complete system functions with each function implemented in an individual page;
- Refreshing, auto dehumidifying, absence and other modes can be set;
- Detect ambient temperature precisely;
- With service hotline inquiry and after-sales phone number record functions;

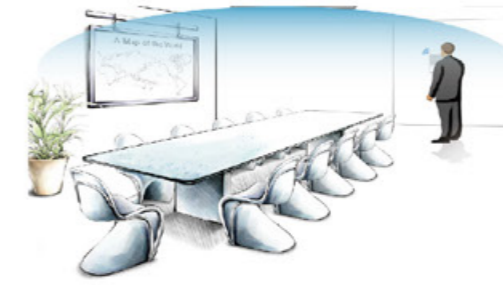
Remote Controller YAP1F



- 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.

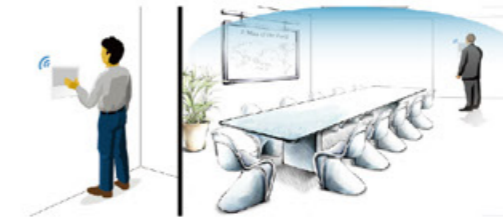
- **Single control of one unit**

Each indoor unit has an independent controller.



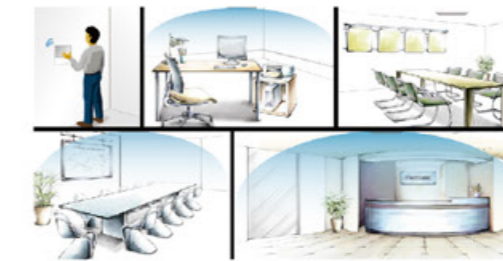
- **Multiple control of one unit**

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



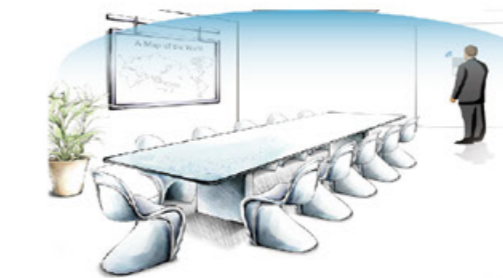
- **Central control of several indoor units**

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.



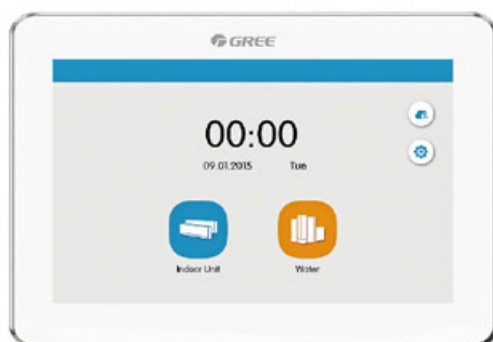
Single control of one unit
(Wired controller and remote controller control the unit jointly or separately)

Multiple control of one unit at different places

Central control of several indoor units

Smart Zone Controller and Central Controller

Smart Zone Controller CE53-24/F(C)



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

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

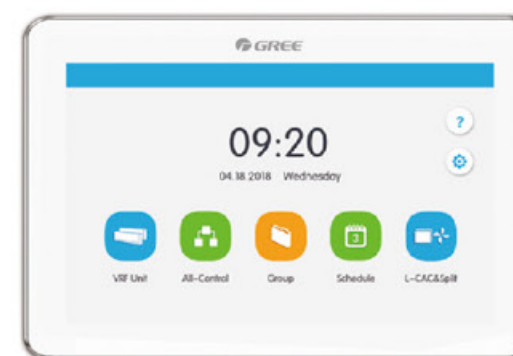
E-smart Zone Controller CE54-24/F(C)



- 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)



- 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.






- 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;

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)		○	○	○	○	
	S2S KNX Gateway	ME30-24/F1(K)		○	○	○	○	
LTE-DTU	IE60-33/CF2		○	○		○	○	
G-Cloud	ME31-00/C7		○	○	○			
Other modules	Optoelectronic Isolated Converter	GD02		○	○	○		
	Optoelectronic Isolated Signal Multiplier	RS485-W		○	○	○		
	Portable Commissioning Tool	CE42-24/F(C)		○	○	○	○	○
	Dry Contact & 24V Adaptor	ME32-33/H		○	○	○	○	○

Note: ● means standard, ○ means optional.

Controlling system	Indoor series		Duct Type	Cassette Type	Wall mounted Type	Console	Floor Ceiling Type	Air Handler	Fresh Air Processing	AHU-KIT
	Model	Image								
Remote Controller	YAP1F		○	●	●	●	●	○	○	○
Wired Controller	XK46		●	○	○	○	○	○	●	●
	XK79		○	○	○	○	○	○	○	○
	XE70-33/H		○	○	○	○	○	○	○	○
	XE76-33/H		○	○	○	○	○	○	○	○
	XK55		○	○	○	○	○	○	○	○
	Receiver	JS05		○						○
JS13*			○	○	○	○	○	○	○	○
Centralized Controller	CE52-24/F(C)		○	○	○	○	○	○	○	○
	CE55-24/F(C)		○	○	○	○	○	○	○	○
Smart Zone Controller	CE53-24/F(C)		○	○	○	○	○	○	○	○
E-Smart Zone Controller	CE54-24/F(C)		○	○	○	○	○	○	○	○

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	$68,000 \leq X \leq 102,000$		
FQ02/A	$102,000 < X \leq 239,000$		
FQ03/A	$239,000 < X \leq 460,600$		
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)	
$X \leq 136,000$	$\leq \Phi 1$	$\leq \Phi 1/2$	FQ14/H1
$136,000 < X \leq 232,000$	$\leq \Phi 1-1/8$	$\leq \Phi 5/8$	FQ18/H1
$232,000 < X$	$\geq 1-1/4$	$\geq 3/4$	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

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

Note: Above dimensions are engineering piping dimensions.