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GREE ELECTRIC APPLIANCES, INC. OF ZHUHAI

Contact Add: West Jinji Rd, Qianshan, Zhuhai, Guangdong, China 519070
Tel: (+86-756) 852 2218 Fax: (+86-756) 866 9426
Email: gree@cn.gree.com Http://global.gree.com

HONG KONG GREE ELECTRIC APPLIANCES SALES LIMITED

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

Note:

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

GC-2401-03

Distributor information

CAC

EU
T1 50/60Hz
R32/R410A/R134a

ABOUT GREE

Gree Electric Appliances, Inc. of Zhuhai was founded in 1991 and was listed on the Shenzhen Stock Exchange in November 1996. At the beginning, Gree was only a company that assembled residential air conditioners. Now it has grown into a diversified global technological industrial group that has expanded its business to air conditioners, home appliances, high-end equipment and communication equipment under three brand names: GREE, KINGHOME and TOSOT. Gree was the number one brand of air conditioners in the world in 2022*.

2015: Gree's sales revenue exceeded 15.08 billion USD.
2016: Gree's sales revenue exceeded 16.51 billion USD.
2017: Gree's sales revenue exceeded 22.21 billion USD.
2018: Gree entered into the list of Forbes Global 2000 again and ranked No. 294, moving up 70 places compared with the previous year.
Gree’s sales revenue exceeded 30.23 billion USD.
2019: Gree entered into Fortune Global 500. Gree' s return on equity （ROE） ranked the first among the 129 Chinese enterprises on the list.
2022: Gree has ranked the 487th on the list of Fortune Global 500.

Thanks to 500 million users' choices, Gree brands are sold widely to more than 180 countries and regions.
Action makes the future and innovation makes achievement. Looking forward, Gree will press ahead with its business philosophy of passion, innovation and realization. We aim to build a centenary air conditioning enterprise and create a better life for humankind.

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

CONTENTS

SOME PARTS

Golden fin condenser
The anti-corrosion performance of golden fins is 3 times better than ordinary fins.

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 enables stable operation and low noise.

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

Slave and master wired controllers
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 automatically and vertically for efficient air and temperature distribution throughout the room.

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

Anti-cold function
The indoor unit will not blow in 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
The unit is able to remember the operation status before power failure and automatically return to that operation status once the power is restored.

Compact design
The unit is designed with smaller dimension, which is easy to install and transport for saving 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 the unit, the indoor fan will keep running at 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
The unit is able to safely start when voltage is below standard.

Low temperature heating
The unit is able to start and operate in normal when the ambient temperature is lower than -20℃ 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
The unit can operate in wide range, greatly reducing the ambient temperature limitation.

Multiple fan speeds
The fan can operate with multiple speeds and satisfy different air flow requirements.

Modular structure
High efficiency compressor presents reliable performance.

CONTROLLER

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

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

℃/℉ switch
Under off status, press MODE and “-” buttons simultaneity to switch ℃/℉.

Clock display
Time is shown on the 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
Turn on, turn off and regulate the 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, such as 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 the project efficiency.

Floor heating debugging

LIGHT COMMERCIAL AC

R32 Inverter Series (Heat Pump) (EU)

Big Duct Type Unit

U-Match

R32

R32 Inverter Series (Heat Pump) (EU)

U-MATCH is an air conditioning product in which the outdoor unit is generally designed to be matched with different types of indoor units (duct type, cassette type, floor ceiling type), saving the cost of warehouse management and after-sales maintenance.
The cooling capacity ranges from 3.5kW to 16kW, applicable to houses, hotels, restaurants, stores, office buildings, etc.

Outdoor Unit

》 High Energy Efficiency: SEER up to 7.20 and energy efficiency rated at A++ for the whole series thanks to all DC inverter system and high-efficiency casing design, leading to 10% energy savings on average compared to the last generation.

》 Health Function: Fresh air provision for the entire range of indoor units, optional healthy and sterilizing accessories, multiple air purification methods to ensure quality air in real time.

》 Quiet Design: Originally designed bionic fan blades and low noise compressor lower indoor unit sound level to 28dB.

》 Comfort: Adopt high precision temperature and humidity dual sensors (±0.5℃) to fully consider the impact of humidity on thermal comfort, reduce excessive dehumidification and substantially improve the level of comfort through intelligent correction of indoor temperature and humidity.

》 Intelligent Control: WiFi function for remote APP control; Smart Sensor, with 360° temperature field detection, can automatically adjust airflow direction and the air conditioner’s operation status by detecting the positions of occupants in the room.

》 Easy-to-install ODU: When installing the unit, wiring and piping can be done without opening the casing, saving installation time.

》 Compact Design: Single fan compact design for outdoor units of the whole series, for the ease of transport and installation.

》 Different Debugging Tools: Provide different debugging tools, for example, the portable debugger, which can monitor real-time operating parameters, set unit parameters and store underlying data; the monitoring and debugging software, which can remotely monitor operating conditions and parameters. After-sales personnel can check the monitored data to locate errors. Troubleshooting is more accurate and efficient.

Indoor Unit

Duct type

》 Plasmacluster ion sterilization module is included, for a healthy and comfortable environment;
》 It can be directly connected to a centralized controller and can share a centralized controller with GREE GMV6 for centralized control;
》 Different sterilization filters are optional;
》 Up to 9 static pressure stages with a maximum of 200Pa can be set, to suit different static pressure requirements.

Cassette type

》 Plasmacluster ion sterilization module is included, for a healthy and comfortable environment;
》 Equipped with MODBUS interface, which can be directly connected to the BMS; BACnet gateway is optional;
》 Panel lifting function module is built as standard; lifting panel is optional;
》 It is equipped with an 8-way air discharge panel and a panel lifting function module; lifting panel is optional.

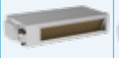
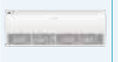
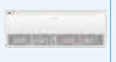
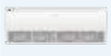
Floor ceiling type

》 Plasmacluster ion sterilization module is included, for a healthy and comfortable environment;
》 Equipped with MODBUS interface, which can be directly connected to the BMS; BACnet gateway is optional;
》 It can be directly connected to a centralized controller and can share a centralized controller with GREE GMV6 for centralized control;
》 Optional WiFi wired controller.

Product operation range

Item	Nominal operating condition(temperature)				Operating range(temperature
	Outdoor condition		Indoor condition		Outdoor condition
	DB (℃)	WB (℃)	DB (℃)	WB (℃)	DB (℃)
Cooling	35	24	27	19	-20~52
Heating	7	6	20	15	-20~24

Product Lineup

Capacity index		35	50	71	85	100	125	140	160
Outdoor unit									
Indoor unit	Duct(without water pump)								
	Duct(with water pump)								
	Cassette								
	Floor ceiling								

Control System Lineup

Controlling system	Model	Outlook	Duct	Cassette	Floor ceiling
Remote controller	YAP1F		○	○	○
Remote controller	YAP1F7		○	●	●
Wired controller	XE7A-24/H		●	○	○
Wired controller（WiFi）	XE7A-24/HC		○	○	○
Wired controller	XE73-24/HC		○	○	○
Programmable wired controller	XE7C-24/HC		○	○	○
Duct unit LED panel（matched with remote controller）	JS13		○	○	○
Linkage Controller	LE60-24/H1		○	○	○
Centralized controller	CE58-00/EF(CM)		○	○	○
Modbus gateway	ME50-00/EG(M)		○	○	○
BACnet gateway	ME30-44/D2(B)		○	○	○

Note:● means standard,○ means optional.

XE73-24/HC is under development. Please confirm the final specifications with the sales personnel.

Specifications

Model	Outdoor unit			GUD35W1/NhA-S GUD35W1/NhA-S(LCLH)		
	Indoor unit			Duct	Cassette	Floor ceiling
				GUD35P1/A-S GUD35PS1/A-S	GUD35T1/A-S	GUD35ZD1/A-S
Capacity	Cooling		kW	3.5	3.5	3.5
			Btu/h	11900	11900	11900
	Heating		kW	4.0	4.0	4.0
			Btu/h	13600	13600	13600
EER /COP			-	3.40/4.00	3.80/4.00	3.80/4.30
SEER/SCOP			-	6.50/4.00	7.10/4.20	7.20/4.10
Energy efficiency grade (Cooling/Heating)			-	A++/A+	A++/A+	A++/A+
Power supply			V/Ph//Hz	220-240-1-50/60	220-240-50/60-1	220-240-1-50/60
Power input	Cooling		kW	1.03	0.92	0.92
	Heating		kW	0	0	0.93
Current input	Cooling		A	4.90	4.40	4.40
	Heating		A	4.80	4.80	4.45
Refrigerant charge volume			kg	0.57	0.57	0.57
Loading quantity		40'GP/40'HQ	unit	182/205	159/182	139/160
Indoor unit	Air flow volume		CFM	353/324/294/235	353/324/294/235	383/353/294/235
			m³/h	600/550/500/400	600/550/500/400	650/600/500/400
	ESP	Rated	Pa	25	0	0
		Range	Pa	0-80	0	0
	Sound pressure level	(SH/H/M/L)	dB(A)	35/33/32/30	36/35/33/29	35/34/31/28
	Dimension (W×D×H)	Outline	mm	700×450×200	570×570×260	870×665×235
		Package	mm	1008×568×275	698×653×295	973×770×300
	Net weight/Gross weight		kg	17.0/21.0	16.5/21.0	24.0/28.0
			kg	18.0/22.0		
Panel	Dimension (W×D×H)	Outline	mm	-	620×620×47.5	-
		Package	mm	-	693×693×115	-
	Net weight/Gross weight		kg	-	3.0/4.5	-
Outdoor unit	Sound pressure level		dB(A)	48	48	48
	Dimension (W×D×H)	Outline	mm	675×285×553	675×285×553	675×285×553
		Package	mm	794×376×605	794×376×605	794×376×605
	Net weight/Gross weight		kg	24.5/27.0	24.5/27.0	24.5/27.0
Connecting pipe	Outdoor diameter	Liquid	inch(mm)	1/4"	1/4"	1/4"
		Gas	inch(mm)	3/8"	3/8"	3/8"
	Max. distance	Height	m	15/30	15/30	15/30
		Length	m			

Model	Outdoor unit			GUD50W1/NhA-S GUD50W1/NhA-S(LCLH)			
	Indoor unit			Duct	Cassette		Floor ceiling
				GUD50P1/A-S GUD50PS1/A-S	GUD50T1/A1-S	GUD50T1/A-S	GUD50ZD1/A-S
Capacity	Cooling		kW	5.3	5.0	5.3	5.3
			Btu/h	18000	17000	18000	18000
	Heating		kW	5.6	5.6	5.8	5.6
			Btu/h	19100	19100	19790	19100
EER /COP			-	3.50/3.95	3.40/3.50	3.45/3.95	3.40/3.90
SEER/SCOP			-	6.30/4.00	6.60/4.00	7.20/4.30	6.50/4.20
Energy efficiency grade (Cooling/Heating)			-	A++/A+	A++/A+	A++/A+	A++/A+
Power supply			V/Ph//Hz	220-240-1-50/60	220-240-50/60-1	220-240-50/60-1	220-240-1-50/60
Power input	Cooling		kW	1.51	1.47	1.54	1.56
	Heating		kW	2	0	1.47	1.44
Current input	Cooling		A	7.20	7.00	7.30	7.50
	Heating		A	6.80	7.65	7.00	6.85
Refrigerant charge volume			kg	0.85	0.85	0.85	0.85
Loading quantity		40'GP/40'HQ	unit	145/164	148/165	102/116	126/144
Indoor unit	Air flow volume		CFM	530/471/412/353	424/383/353/294	530/471/412/353	530/471/412/353
			m³/h	900/800/700/600	720/650/600/500	900/800/700/600	900/800/700/600
	ESP	Rated	Pa	25	0	0	0
		Range	Pa	0-80	0	0	0
	Sound pressure level	(SH/H/M/L)	dB(A)	36/35/33/31	43/41/39/35	36/35/33/31	41/40/38/36
	Dimension (W×D×H)	Outline	mm	1000×450×200	570×570×260	840×840×200	870×665×235
		Package	mm	1308×568×275	698×653×295	943×923×245	973×770×300
	Net weight/Gross weight		kg	23.0/28.0	16.5/21.0	21.0/27.0	25.0/29.0
			kg	24.0/29.0			
Panel	Dimension (W×D×H)	Outline	mm	-	620×620×47.5	950×950×52.0	-
		Package	mm	-	693×693×115	1033×1020×110	-
	Net weight/Gross weight		kg	-	3.0/4.5	6.0/9.5	-
Outdoor unit	Sound pressure level		dB(A)	52	52	52	52
	Dimension (W×D×H)	Outline	mm	745×300×555	745×300×555	745×300×555	745×300×555
		Package	mm	872×398×609	872×398×609	872×398×609	872×398×609
	Net weight/Gross weight		kg	30.5/33.0	30.5/33.0	30.5/33.0	30.5/33.0
Connecting pipe	Outdoor diameter	Liquid	inch(mm)	1/4"	1/4"	1/4"	1/4"
		Gas	inch(mm)	1/2"	1/2"	1/2"	1/2"
	Max. distance	Height	m	20/30	20/30	20/30	20/30
		Length	m				

Specifications

Model	Outdoor unit			GUD71W1/NhA-S GUD71W1/NhA-S(LCLH)			
	Indoor unit			Duct	Cassette	Floor ceiling	Wall-mounted
				GUD71PH1/A-S GUD71PHS1/A-S	GUD71T1/A-S	GUD71ZD1/A-S	GUD71G1/A-S
Capacity	Cooling		kW	7.1	7.1	7.1	7.1
			Btu/h	24200	24200	24200	24200
	Heating		kW	8.0	7.8	7.7	7.7
			Btu/h	27200	26600	26200	26200
EER /COP			-	3.70/4.00	3.50/3.90	3.50/3.95	3.50/3.95
SEER/SCOP			-	6.60/4.10	6.70/4.30	7.20/4.30	7.20/4.30
Energy efficiency grade (Cooling/Heating)			-	A++/A+	6.70/4.30	A++/A+	A++/A+
Power supply			V/Ph//Hz	220-240-1-50/60	220-240-50/60-1	220-240-1-50/60	220-240-1-50/60
Power input	Cooling		kW	1.92	2.03	2.03	2.03
	Heating		kW	0	0	1.95	1.9
Current input	Cooling		A	9.20	9.70	9.70	9.70
	Heating		A	9.60	9.60	9.10	9.10
Refrigerant charge volume			kg	1.50	1.50	1.50	1.50
Loading quantity		40'GP/40'HQ	unit	98/109	84/94	92/102	115/134
Indoor unit	Air flow volume		CFM	647/588/529/470	647/588/529/470	735/647/588/529	706/647/589/559
			m^3/h	1100/1000/900/800	1100/1000/900/800	1250/1100/1000/900	1200/1100/1000/950
	ESP	Rated	Pa	25	0	0	0
		Range	Pa	0-160	0	0	0
	Sound pressure level(SH/H/M/L)		dB(A)	37/35/33/31	39/38/36/34	41/39/37/35	47/45/43/40
	Dimension (W × D × H)	Outline	mm	900 × 655 × 260	840 × 840 × 200	1200 × 665 × 235	1078 × 246 × 325
		Package	mm	1115 × 772 × 320	943 × 923 × 245	1303 × 770 × 300	1127 × 403 × 344
	Net weight/Gross weight		kg	28.5/32.5	21.0/27.0	31.0/36.0	15.0/18.0
			kg	29.5/33.5			
Panel	Dimension (W × D × H)	Outline	mm	-	950 × 950 × 52	-	-
		Package	mm	-	1033 × 1020 × 110	-	-
	Net weight/Gross weight		kg	-	6.0/9.5	-	-
Outdoor unit	Sound pressure level		dB(A)	55	55	55	55
	Dimension (W × D × H)	Outline	mm	889 × 340 × 660	889 × 340 × 660	889 × 340 × 660	889 × 340 × 660
		Package	mm	1032 × 456 × 730	1032 × 456 × 730	1032 × 456 × 730	1032 × 456 × 730
	Net weight/Gross weight		kg	41.5/45.0	41.5/45.0	41.5/45.0	41.5/45.0
Connecting pipe	Outdoor diameter	Liquid	inch(mm)	3/8"	3/8"	41.5/45.0	3/8"
		Gas	inch(mm)	5/8"	5/8"	5/8"	5/8"
	Max. distance	Height	m	20/30	20/30	20/30	20/30
		Length	m				

Model	Outdoor unit			GUD85W1/NhA-S GUD85W1/NhA-S(LCLH)		
	Indoor unit			Duct	Cassette	Floor ceiling
				GUD85PH1/A-S GUD85PHS1/A-S	GUD85T1/A-S	GUD85ZD1/A-S
Capacity	Cooling		kW	8.5	8.5	8.5
			Btu/h	29000	29000	29000
	Heating		kW	8.80	8.80	8.80
			Btu/h	30000	30000	30000
EER /COP			-	3.40/3.90	3.40/3.90	3.40/3.90
SEER/SCOP			-	6.40/4.10	6.90/4.30	6.80/4.50
Energy efficiency grade			-	A++/A+	A++/A+	A++/A+
Power supply			V/Ph//Hz	220-240-1-50/60	220-240-50/60-1	220-240-1-50/60
Power input	Cooling		kW	2.50	2.50	2.50
	Heating		kW	2.25	2.25	2.25
Current input	Cooling		A	11.40	11.40	11.40
	Heating		A	10.30	10.30	10.30
Refrigerant charge volume			kg	1.50	1.50	1.50
Loading quantity		40'GP/40'HQ	unit	98/109	84/94	92/102
Indoor unit	Air flow volume		CFM	824/765/647/588	824/765/647/588	824/765/706/588
			m^3/h	1400/1300/1100/1000	1400/1300/1100/1000	1400/1300/1200/1000
	ESP	Rated	Pa	37	0	0
		Range	Pa	0-160	0	0
	Sound pressure level(SH/H/M/L)		dB(A)	43/41/39/37	47/46/42/38	46/45/43/39
	Dimension (W × D × H)	Outline	mm	900 × 655 × 260	840 × 840 × 200	1200 × 665 × 235
		Package	mm	1115 × 772 × 320	943 × 923 × 245	1303 × 770 × 300
	Net weight/Gross weight		kg	28.5/32.5	21.0/27.0	32.0/37.0
			kg	29.5/33.5		
Panel	Dimension (W × D × H)	Outline	mm	-	950 × 950 × 52	-
		Package	mm	-	1033 × 1020 × 110	-
	Net weight/Gross weight		kg	-	6.0/9.5	-
Outdoor unit	Sound pressure level		dB(A)	57	57	57
	Dimension (W × D × H)	Outline	mm	889 × 340 × 660	889 × 340 × 660	889 × 340 × 660
		Package	mm	1032 × 456 × 730	1032 × 456 × 730	1032 × 456 × 730
	Net weight/Gross weight		kg	46.0/50.0	46.0/50.0	46.0/50.0
Connecting pipe	Outdoor diameter	Liquid	inch(mm)	3/8"	3/8"	3/8"
		Gas	inch(mm)	5/8"	5/8"	5/8"
	Max. distance	Height	m	25/30	25/30	25/30
		Length	m			

Model	Outdoor unit			GUD100W1/NhA-S GUD100W1/NhA-S(LCLH)	GUD100W1/NhA-X GUD100W1/NhA-X(LCLH)	GUD100W1/NhA-S GUD100W1/NhA-S(LCLH)	GUD100W1/NhA-X GUD100W1/NhA-X(LCLH)	GUD100W1/NhA-S GUD100W1/NhA-S(LCLH)	GUD100W1/NhA-X GUD100W1/NhA-X(LCLH)
	Indoor unit			Duct		Cassette		Floor ceiling	
				GUD100PH1/A-S GUD100PHS1/A-S		GUD100T1/A-S		GUD100ZD1/A-S	
Capacity	Cooling		kW	10.5	10.5	10.5	10.5	10.0	10.0
			Btu/h	35800	35800	35800	35800	34100	34100
	Heating		kW	11.5	11.5	11.5	11.5	11.5	11.5
			Btu/h	39200	39200	39200	39200	39200	39200
EER /COP			-	3.50/4.10	3.50/4.10	3.40/3.90	3.40/3.90	3.40/3.90	3.40/3.90
SEER/SCOP			-	6.40/4.20	6.40/4.20	6.60/4.40	6.60/4.40	6.30/4.20	6.30/4.20
Energy efficiency grade			-	A++/A+	A++/A+	A++/A+	A++/A+	A++/A+	A++/A+
Power supply			V/Ph//Hz	220-240-1-50/60	380-415-3-50/60	220-240-50/60-1	380-415-3-50/60	220-240-1-50/60	380-415-3-50/60
Power input	Cooling		kW	3.00	3.00	3.10	3.10	2.94	2.94
	Heating		kW	0	0	2.95	2.95	2.95	2.95
Current input	Cooling		A	14.35	4.80	14.80	4.90	14.00	4.65
	Heating		A	13.40	4.45	14.10	4.70	14.10	4.70
Refrigerant charge volume			kg	2.10	2.10	2.10	2.10	2.10	2.10
Loading quantity		40'GP/40'HQ	unit	64/72	64/72	68/78	68/78	69/83	69/83
Indoor unit	Air flow volume		CFM	1000/941/824/710	1000/941/824/710	883/824/710/589	883/824/710/589	941/883/824/710	941/883/824/710
			m^3/h	1700/1600/1400/1200	1700/1600/1400/1200	1500/1400/1200/1000	1500/1400/1200/1000	1600/1500/1400/1200	1600/1500/1400/1200
	ESP	Rated	Pa	37	37	0	0	0	0
		Range	Pa	0-160	0-160	0	0	0	0
	Sound pressure level(SH/H/M/L)		dB(A)	39/38/37/36	39/38/37/36	43/41/39/38	43/41/39/38	48/46/45/43	48/46/45/43
	Dimension (W × D × H)	Outline	mm	1340 × 655 × 260	1340 × 655 × 260	840 × 840 × 240	840 × 840 × 240	1200 × 665 × 235	1200 × 665 × 235
		Package	mm	1568 × 770 × 323	1568 × 770 × 323	933 × 903 × 272	933 × 903 × 272	1303 × 770 × 300	1303 × 770 × 300
	Net weight/Gross weight		kg	42.0/48.0	42.0/48.0	23.0/29.0	23.0/29.0	32.0/37.0	32.0/37.0
			kg	43.0/49.0	43.0/49.0				
Panel	Dimension (W × D × H)	Outline	mm	-	-	950 × 950 × 52	950 × 950 × 52	-	-
		Package	mm	-	-	1033 × 1020 × 110	1033 × 1020 × 110	-	-
	Net weight/Gross weight		kg	-	-	6.0/9.5	6.0/9.5	-	-
Outdoor unit	Sound pressure level		dB(A)	57	57	57	57	57	57
	Dimension (W × D × H)	Outline	mm	940 × 370 × 820	940 × 370 × 820	940 × 370 × 820	940 × 370 × 820	940 × 370 × 820	940 × 370 × 820
		Package	mm	1093 × 497 × 885	1093 × 497 × 885	1093 × 497 × 885	1093 × 497 × 885	1093 × 497 × 885	1093 × 497 × 885
	Net weight/Gross weight		kg	65.0/72.0	75.0/82.0	65.0/72.0	75.0/82.0	65.0/72.0	75.0/82.0
Connecting pipe	Outdoor diameter	Liquid	inch(mm)	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"
		Gas	inch(mm)	5/8"	5/8"	5/8"	5/8"	5/8"	5/8"
	Max. distance	Height	m	30/75	30/75	30/75	30/75	30/75	30/75
		Length	m						

Model	Outdoor unit			GUD125W1/NhA-S GUD125W1/NhA-S(LCLH)	GUD125W1/NhA-X GUD125W1/NhA-X(LCLH)	GUD125W1/NhA-S GUD125W1/NhA-S(LCLH)	GUD125W1/NhA-X GUD125W1/NhA-X(LCLH)	GUD125W1/NhA-S GUD125W1/NhA-S(LCLH)	GUD125W1/NhA-X GUD125W1/NhA-X(LCLH)
	Indoor unit			Duct		Cassette		Floor ceiling	
				GUD125PH1/A-S GUD125PHS1/A-S		GUD125T1/A-S		GUD125ZD1/A-S	
Capacity	Cooling		kW	12.1	12.1	12.1	12.1	12.1	12.1
			Btu/h	41200	41200	41200	41200	41200	41200
	Heating		kW	13.5	13.5	13.5	13.5	13.5	13.5
			Btu/h	46000	46000	46000	46000	46000	46000
EER /COP			-	3.38/3.65	3.38/3.65	3.10/3.40	3.10/3.40	3.30/3.60	3.30/3.60
SEER/SCOP			-	6.10/4.10	6.10/4.10	6.10/4.10	6.10/4.10	6.30/4.00	6.30/4.00
Energy efficiency grade			-	A++/A+	A++/A+	A++/A+	A++/A+	A++/A+	A++/A+
Power supply			V/Ph//Hz	220-240-1-50/60	380-415-3-50/60	220-240-1-50/60	220-240/208-230-3-50/60	220-240-1-50/60	380-415-3-50/60
Power input	Cooling		kW	3.58	3.58	3.90	3.90	3.67	3.67
	Heating		kW	0	3.70	3.97	3.97	3.75	3.75
Current input	Cooling		A	17.20	5.70	18.60	6.20	17.50	5.85
	Heating		A	17.70	5.90	19.00	6.30	17.90	6.00
Refrigerant charge volume			kg	2.25	2.25	2.25	2.25	2.25	2.25
Loading quantity		40'GP/40'HQ	unit	64/72	64/72	68/78	68/78	62/74	62/74
Indoor unit	Air flow volume		CFM	1177/1059/941/824	1177/1059/941/824	1000/883/765/647	1000/883/765/647	1118/1059/941/824	1118/1059/941/824
			m^3/h	2000/1800/1600/1400	2000/1800/1600/1400	1700/1500/1300/1100	1700/1500/1300/1100	1900/1800/1600/1400	1900/1800/1600/1400
	ESP	Rated	Pa	50	50	0	0	0	0
		Range	Pa	0-160	0-160	0	0	0	0
	Sound pressure level(SH/H/M/L)		dB(A)	43/42/41/40	43/42/41/40	48/46/43/39	48/46/43/39	45/43/40/38	45/43/40/38
	Dimension (W × D × H)	Outline	mm	1340 × 655 × 260	1340 × 655 × 260	840 × 840 × 240	840 × 840 × 240	1570 × 665 × 235	1570 × 665 × 235
		Package	mm	1568 × 770 × 323	1568 × 770 × 323	933 × 903 × 272	933 × 903 × 272	1669 × 770 × 300	1669 × 770 × 300
	Net weight/Gross weight		kg	42.0/48.0	42.0/48.0	23.0/29.0	23.0/29.0	39.5/46.5	39.5/46.5
			kg	43.0/49.0	43.0/49.0				
Panel	Dimension (W × D × H)	Outline	mm	-	-	950 × 950 × 52	950 × 950 × 52	-	-
		Package	mm	-	-	1033 × 1020 × 110	1033 × 1020 × 110	-	-
	Net weight/Gross weight		kg	-	-	6.0/9.5	6.0/9.5	-	-
Outdoor unit	Sound pressure level		dB(A)	58	58	58	58	58	58
	Dimension (W × D × H)	Outline	mm	940 × 370 × 820	940 × 370 × 820	940 × 370 × 820	940 × 370 × 820	940 × 370 × 820	940 × 370 × 820
		Package	mm	1093 × 497 × 885	1093 × 497 × 885	1093 × 497 × 885	1093 × 497 × 885	1093 × 497 × 885	1093 × 497 × 885
	Net weight/Gross weight		kg	66.0/73.0	76.0/83.0	66.0/73.0	76.0/83.0	66.0/73.0	76.0/83.0
Connecting pipe	Outdoor diameter	Liquid	inch(mm)	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"
		Gas	inch(mm)	5/8"	5/8"	5/8"	5/8"	5/8"	5/8"
	Max. distance	Height	m	30/75	30/75	30/75	30/75	30/75	30/75
		Length	m						

Model	Outdoor unit			GUD140W1/NhA-S GUD140W1/NhA-S(LCLH)	GUD140W1/NhA-X GUD140W1/NhA-X(LCLH)	GUD140W1/NhA-S GUD140W1/NhA-S(LCLH)	GUD140W1/NhA-X GUD140W1/NhA-X(LCLH)	GUD140W1/NhA-S GUD140W1/NhA-S(LCLH)	GUD140W1/NhA-X GUD140W1/NhA-X(LCLH)
	Indoor unit			Duct		Cassette		Floor ceiling	
				GUD140PH1/A-S		GUD140T1/A-S		GUD140ZD1/A-S	
Capacity	Cooling		kW	13.4	13.4	13.4	13.4	13.4	13.4
			Btu/h	45700	45700	45700	45700	45700	45700
	Heating		kW	15.50	15.50	15.50	15.50	15.50	15.50
			Btu/h	52900	52900	52900	52900	52900	52900
EER /COP			-	2.98/3.44	2.98/3.44	2.91/3.30	2.91/3.30	3.12/3.69	3.12/3.69
SEER/SCOP			-	6.10/4.00	6.10/4.00	6.30/4.00	6.30/4.00	6.30/4.00	6.30/4.00
Energy efficiency grade			-	A++/A+	A++/A+	A++/A+	A++/A+	A++/A+	A++/A+
Power supply			V/Ph//Hz	220-240-1-50/60	380-415-3-50/60	220-240-1-50/60	380-415-3-50/60	220-240-1-50/60	380-415-3-50/60
Power input	Cooling		kW	4.50	4.50	4.60	4.60	4.30	4.30
	Heating		kW	0	0	0	0	0	0
Current input	Cooling		A	20.60	6.80	21.00	7.00	19.70	6.50
	Heating		A	20.60	6.80	21.50	7.10	19.20	6.40
Refrigerant charge volume			kg	2.80	2.80	2.80	2.80	2.80	2.80
Loading quantity		40'GP/40'HQ	unit	56/63	56/63	64/74	64/74	62/74	62/74
Indoor unit	Air flow volume		CFM	1354/1236/1059/883	1354/1236/1059/883	1177/1059/942/824	1177/1059/942/824	1354/1236/1059/883	1354/1236/1059/883
			m^3/h	2300/2100/1800/1500	2300/2100/1800/1500	2000/1800/1600/1400	2000/1800/1600/1400	2300/2100/1800/1500	2300/2100/1800/1500
	ESP	Rated	Pa	50	50	0	0	0	0
		Range	Pa	0-200	0-200	0	0	0	0
	Sound pressure level(SH/H/M/L)		dB(A)	43/42/40/38	43/42/40/38	50/48/45/41	50/48/45/41	51/48/45/43	51/48/45/43
	Dimension (W×D×H)	Outline	mm	1400×700×300	1400×700×300	840×840×290	840×840×290	1570×665×235	1570×665×235
		Package	mm	1601×813×365	1601×813×365	933×903×335	933×903×335	1669×770×300	1669×770×300
	Net weight/Gross weight		kg	51.0/57.0	51.0/57.0	25.0/32.0	25.0/32.0	42.0/49.0	42.0/49.0
			kg	52.0/58.0	52.0/58.0				
Panel	Dimension (W×D×H)	Outline	mm	-	-	950×950×52	950×950×52	-	-
		Package	mm	-	-	1033×1020×110	1033×1020×110	-	-
	Net weight/Gross weight		kg	-	-	6.0/9.5	6.0/9.5	-	-
Outdoor unit	Sound pressure level		dB(A)	59	59	59	59	59	59
	Dimension (W×D×H)	Outline	mm	940×370×820	940×370×820	940×370×820	940×370×820	940×370×820	940×370×820
		Package	mm	1093×497×885	1093×497×885	1093×497×885	1093×497×885	1093×497×885	1093×497×885
	Net weight/Gross weight		kg	73.0/80.0	81.0/88.0	73.0/80.0	81.0/88.0	73.0/80.0	81.0/88.0
Connecting pipe	Outdoor diameter	Liquid	inch(mm)	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"
		Gas	inch(mm)	5/8"	5/8"	5/8"	5/8"	5/8"	5/8"
	Max. distance	Height	m	30/75	30/75	30/75	30/75	30/75	30/75
		Length	m						

Model	Outdoor unit			GUD160W1/NhA-X GUD160W1/NhA-X(LCLH)		
	Indoor unit			Duct	Cassette	Floor ceiling
				GUD160PH1/A-S GUD160PHS1/A-S	GUD160T1/A-S	GUD160ZD1/A-S
Capacity	Cooling		kW	16.0	14.5	16.0
			Btu/h	54500	49400	54600
	Heating		kW	17.0	17.0	17.0
			Btu/h	5800	58000	58000
EER /COP			-	2.96/3.62	2.74/2.98	3.02/3.54
SEER/SCOP			-	6.10/4.00	6.10/4.00	6.10/4.00
Energy efficiency grade			-	A++/A+	A++/A+	A++/A+
Power supply			V/Ph//Hz	380-415-3-50/60	380-415-3-50/60	380-415-3-50/60
Power input	Cooling		kW	5.40	5.30	5.30
	Heating		kW	4.70	5.70	4.80
Current input	Cooling		A	9.20	9.00	9.00
	Heating		A	8.00	8.20	9.70
Refrigerant charge volume			kg	3.50	3.50	3.50
Loading quantity		40'GP/40'HQ	unit	49/57	58/62	60/67
Indoor unit	Air flow volume		CFM	1529/1354/1176/1000	1354/1235/1118/941	1412/1294/1118/941
			m^3/h	2600/2300/2000/1700	2300/2100/1900/1600	2400/2200/1900/1600
	ESP	Rated	Pa	50	0	0
		Range	Pa	0-200	0	0
	Sound pressure level(SH/H/M/L)		dB(A)	46/44/42/40	52/50/48/444	53/51/48/44
	Dimension (W×D×H)	Outline	mm	1400×700×300	840×840×290	1570×665×235
		Package	mm	1601×813×365	933×903×335	1669×770×300
	Net weight/Gross weight		kg	54.0/61.0	26.0/33.0	42.0/49.0
			kg	55.0/62.0		
Panel	Dimension (W×D×H)	Outline	mm	-	950×950×52	-
		Package	mm	-	1033×1020×110	-
	Net weight/Gross weight		kg	-	6.0/9.5	-
Outdoor unit	Sound pressure level		dB(A)	60	60	60
	Dimension (W×D×H)	Outline	mm	990×370×960	990×370×955	990×370×955
		Package	mm	1153×478×1110	1153×478×1110	1153×478×1110
	Net weight/Gross weight		kg	94.0/103.0	94.0/103.0	94.0/103.0
Connecting pipe	Outdoor diameter	Liquid	inch(mm)	3/8"	3/8"	3/8"
		Gas	inch(mm)	5/8"	5/8"	5/8"
	Max. distance	Height	m	30/75	30/75	30/75
		Length	m			

Big Duct Type Unit

INVERTER R410A

Inverter Series(High Capacity)

It is a kind of split system that can be connected with air duct to realize cooling/heating in subdivided area.

20kW

25kW/30kW

40kW*

*: If the capacity of outdoor unit is 40kW, two outdoor units are needed for the operation of one indoor unit.

Intelligent defrosting

Compact design

Comprehensive protection

Easier maintainability

Self-diagnosis

- All DC inverter for high efficiency and energy saving.
- High static units for longer ducted runs.
- ESP is up to 250Pa.
- Static pressure is adjustable.
- Intelligent filter cleaning reminding function.
- Indoor fan can be adjusted according to the static pressure of air duct installed by customers.

Item	Nominal operating condition (temperature)				Operating range (temperature)
	Outdoor condition		Indoor condition		Outdoor condition
	DB (℃)	WB (℃)	DB (℃)	WB (℃)	DB (℃)
Cooling	35	24	27	19	-7~48
Heating	7	6	20	15	-15~24

Model	Heat pump			FGR20Pd/DNa-X	FGR25Pd/DNa-X	FGR30Pd/DNa-X	FGR40Pd/D(2)Na-X
Capacity	Cooling		kW	20	25	30	40
			BTU/h	68240	85300	102400	136500
	Heating		kW	22.0	27.5	33.0	43.0
			BTU/h	75100	93800	112600	146700
EER/COP			W/W	2.56/3.14	2.65/3.10	2.65/3.20	2.59/3.10
Power supply			V/Ph/Hz	380-415V 3N~ 50/60Hz	380-415V 3N~ 50/60Hz	380-415V 3N~ 50/60Hz	380-415V 3N~ 50/60Hz
Power input	Cooling		kW	7.800	9.435	11.300	15.450
	Heating		kW	7.00	8.87	10.30	13.85
Current input	Cooling		A	16.5	18.9	22.7	27.8
	Heating		A	15.6	17.2	20.7	26.4
Refrigerant charge volume			kg	6.4	8.0	9.5	6.4×2
Indoor unit	Air flow volume		CFM	2177	2472	3060	4120
			m^3/h	3700	4200	5200	7000
	ESP	Rated	Pa	120	120	120	120
		Range	Pa	0-250	0-250	0-250	0-250
	Sound pressure level		dB (A)	52	53	55	56
	Dimension (W×D×H)	Outline	mm	1315×760×385	1520×840×450	1520×840×450	1680×900×650
		Package	mm	1578×883×400	1788×988×465	1788×988×465	1923×1153×850
	Net weight /Gross weight		kg	82/104	99/134	105/145	165/210
Outdoor unit	Sound pressure level		dB (A)	62	63	65	62*
	Dimension (W×D×H)	Outline	mm	940×320×1430	940×460×1615	940×460×1615	(940×320×1430)×2
		Package	mm	1038×438×1580	1038×578×1765	1038×578×1765	(1038×438×1580)×2
	Net weight /Gross weight		kg	120/130	146/162	175/190	(120/130)×2
Connection pipe	Outer diameter	Liquid	inch(mm)	Φ3/8(9.52)	Φ3/8(9.52)	Φ1/2(12.70)	Φ3/8(9.52)×2
		Gas	inch(mm)	Φ3/4(19.05)	Φ7/8(22.00)	Φ1(25.40)	Φ3/4(19.05)×2
	Max. distance	Height	m	30	30	30	30
		Length	m	70	70	70	70
Loading quantity	20'GP		unit	15	12	12	6
	40'GP/40'HQ		unit	35/42	28/28	28/28	12/14

*Single unit's noise value.

Control System Lineup

Controlling system	Model	Outlook	Big duct type unit
Wired controller	XK46		●
Wireless controller	YAP1F		○
Remote controller	YAP1F7		○
Wired controller	XE7A-24/H		○
Wired controller（WiFi）	XE7A-24/HC		○
Duct unit LED panel（matched with remote controller）	JS13		○
Linkage Controller	LE60-24/H1		○

Note: ● means standard, ○ means optional. Wireless controller should be chosen with wired controller at the same time.

VRF

GMV5
GMV5 Home
GMV6
GMV6 HR
GMV Mini Star
Indoor Units Lineup
Control System Lineup
Branching Joint
ERV+DX Coil

GMV5

Gree GMV5 All DC Inverter VRF adopts high-efficient DC inverter compressor and DC inverter fan motor.

GMV5 Mini

GMV5 Slim

All DC inverter technology

Energy saving function

Quiet function

Human engineering operation

Intelligent Management

Long connection pipe design

Wide operation range

Comprehensive protection

》Outdoor unit quiet mode.

》High energy efficiency with high-performance compressor.

Max. piping length (meter)	GMV5 Mini		GMV5 Slim
Total piping length	250m*1	300m*2	300m
Actual piping length	100m*1	120m*2	120m
Equivalent piping length	120m*1	150m*2	150m
Height difference between indoor units	10m*1	15m*2	15m
Height difference between ODU and IDU (ODU is located above the IDU)	30m*1	50m*2	50m
Height difference between ODU and IDU (IDU is located above the ODU)	30m*1	40m*2	40m
Piping length from first indoor branch to the farthest IDU	40m*1	40m*2	40m

Notes:
*1: The value is applied to product type with 12.1kW.
*2: The value is applied to product type with 12kW, 14kW or 16kW.

Item	Nominal operating condition (temperature)				Operating range (temperature)	
	Outdoor condition		Indoor condition		Outdoor condition DB(℃)	
	DB(℃)	WB(℃)	DB(℃)	WB(℃)	GMV5 Mini	GMV5 Slim
Cooling	35	-	27	19	-5~52	-5~52
Heating	7	6	20	-	-20~27	-20~27

Outdoor Units Lineup

GMV5 Mini Lineup(220-240V/50Hz & 208-230V/60Hz & 380-415V, 50/60HZ)

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

GMV5 Mini Lineup (220-240V ~ 50Hz & 208-230V ~ 60Hz)

HP	Model	Product
5	GMV-141WL/C-T	

GMV5 Slim Lineup(380-415V 3N~ 50/60Hz)

HP	Model	Product
8	GMV-224WL/C-X	
10	GMV-280WL/C1-X	
12	GMV-335WL/C1-X	

GMV5 Mini (220-240V ~ 50Hz & 208-230V ~ 60Hz)

Model			GMV-120WL/C-T	GMV-140WL/C-T	GMV-141WL/C-T	GMV-160WL/C-T
Capacity range		HP	4	5	5	6
Cooling capacity	Rated	kW	12.1	14.0	14.1	16.0
	Max.	kW	12.1	14.0	14.1	16.0
Heating capacity	Rated	kW	12.1	14.0	16.0	16.0
	Max.	kW	14.0	16.5	16.0	18.0
SEER	Ducted	-	6.70	6.88	5.85	6.96
	Cassette	-	6.70	6.79	5.73	6.55
SCOP	Ducted	-	3.97	4.24	3.74	4.04
	Cassette	-	3.93	4.24	3.86	4.06
Max. circuit/Fuse current		A	32	40	40	40
Power supply		V/Ph/Hz	220-240V ~ 50Hz & 208-230V ~ 60Hz			
Maximum drive IDU NO.		unit	7	8	8	9
Refrigerant charge volume		kg	3.3	3.3	3.3	3.3
Sound power level		dB(A)	75	75	77	77
Connecting pipe	Liquid	mm	Φ9.52	Φ9.52	Φ9.52	Φ9.52
	Gas	mm	Φ15.90	Φ15.90	Φ15.90	Φ19.05
Dimension(W×D×H)	Outline	mm	900×340×1345	900×340×1345	940×460×820	900×340×1345
	Package	mm	998×458×1500	998×458×1500	1023×563×973	998×458×1500
Net weight/ Gross weight		kg	112/123	112/123	98/108	112/123
Loading quantity	40'GP	unit	57	57	88	57
	40'HQ	unit	57	57	88	57

Note:
(1)The ODU operation temperature range is -5~52℃ in cooling and -20~27℃ in heating.
(2) Heat radiation by refrigerant.

GMV5 Mini (380-415V 3N~ 50/60Hz)

Model			GMV-120WL/C-X	GMV-140WL/C-X	GMV-160WL/C-X
Capacity range		HP	4	5	6
Cooling capacity	Rated	kW	12.1	14	16
	Max.	kW	12.1	14	16
Heating capacity	Rated	kW	12.1	14	16
	Max.	kW	14	16.5	18
SEER	Ducted	-	6.70	6.88	6.96
	Cassette	-	6.70	6.79	6.55
SCOP	Ducted	-	3.97	4.24	4.04
	Cassette	-	3.93	4.24	4.06
Max. circuit/Fuse current		A	16	16	16
Power supply		V/Ph/Hz	380-415V 3N~ 50/60Hz		
Maximum drive IDU NO.		unit	7	8	9
Refrigerant charge volume		kg	3.3	3.3	3.3
Sound power level		dB(A)	75	75	77
Connecting pipe	Liquid	mm	Φ9.52	Φ9.52	Φ9.52
	Gas	mm	Φ15.9	Φ15.9	Φ19.05
Dimension(W×D×H)	Outline	mm	900×340×1345	900×340×1345	900×340×1345
	Package	mm	998×458×1500	998×458×1500	998×458×1500
Net weight/ Gross weight		kg	122/133	122/133	122/133
Loading quantity	40'GP	unit	57	57	57
	40'HQ	unit	57	57	57

Note: The ODU operation temperature range is -5~52℃ in cooling and -20~27℃ in heating.

GMV5 Slim (380-415V 3N~ 50/60Hz)

Model			GMV-224WL/C-X	GMV-280WL/C1-X*	GMV-335WL/C1-X*
Capacity range		HP	8	10	12
Cooling capacity	Rated	kW	22.4	28.0	33.5
	Max.	kW	22.4	28.0	33.5
Heating capacity	Rated	kW	24.0	28.0	33.5
	Max.	kW	24.0	28.0	33.5
SEER	Ducted	-	7.27	7.31	7.87
	Cassette	-	7.27	6.87	6.83
SCOP	Ducted	-	4.08	5.19	5.50
	Cassette	-	4.11	4.66	4.21
Max. circuit/Fuse current		A	20	25	32
Power supply		V/Ph/Hz	380-415V 3N~ 50/60Hz		
Maximum drive IDU NO.		unit	13	17	20
Refrigerant charge volume		kg	5.5	7.1	8.5
Sound power level		dB(A)	77	80	81
Connecting pipe	Liquid	mm	Φ9.52	Φ9.52	Φ12.70
	Gas	mm	Φ19.05	Φ22.20	Φ25.40
Dimension(W×D×H)	Outline	mm	940×320×1430	940×460×1615	940×460×1615
	Package	mm	1038×438×1580	1038×578×1765	1038×578×1765
Net weight/ Gross weight		kg	133/144	163/175	174/187
Loading quantity	40'GP	unit	57	44	44
	40'HQ	unit	57	44	44

GMV5 Home

INVERTER R410A

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

Outdoor Unit

SXTD200LC
JW/A-K*2

Hot water converter*1

Golden fin condenser

Inner groove copper

Compact design

High efficiency

Wide voltage range

Easier maintainability

》 High efficiency and energy saving. The self-developed DC inverter technology stimulates the intelligence and integration of the system. In full heat recovery mode of “cooling + hot water”, the ECOP is up to 7.0; DC inverter water pump is adopted, which has apparent advantages in energy savings, flow-lift regulating range and performance curve.

》 Optional quiet modes. The system has got night quiet mode and forced quiet mode, with operation noise as low as 45dB(A).

》 Unique comfort functions. The system has got auto heat recovery function in cooling; the heat is recovered automatically for heating water.

Iteml	Nominal operating condition(temperature)					
	Outdoor condition		Indoor condition		Water	
	DB(℃)	WB(℃)	DB(℃)	WB(℃)	Start(℃)	End(℃)
Cooling	35	24	27	19	/	/
Heating	7	6	20	15	/	/
Hot water	20	15	/	/	15	55

	Mode	Outdoor condition(℃)
Operation range	Cooling	-5~50
	Heating	-15~24
	Water heating	-15~43
	Cooling and water heating	-5~43
	Heating and water heating	-15~24

Hot Water Converter

Model			NRZ16G/A-S
Heating capacity		kW	4.5(2.8~5.6)
Dimension (W×D×H)	Outline	mm	370×135×485
	Package	mm	473×238×660
Power supply		V/Ph/Hz	220-240V ~ 50/60Hz
Connecting pipe to ODU	Gas	mm	Φ15.90
	Liquid	mm	Φ9.52
	Gas(high pressure)	mm	Φ12.70
Net weight/Gross weight		kg	8.5/13.5
Loading quantity	40'GP/40'HQ	unit	660/880

Water Tank

Model		SXTD200LCJW/A-K
Capacity	L	185
Power supply for electric heater	-	220-240V~50Hz
Input power for electric heater	W	1500
Max. operation pressure	Mpa	0.70
Outline dimensions(W×D×H)	mm	462×462×1944
Package dimensions(W×D×H)	mm	583×583×2045
Water tank gross/net weight	kg	88/75
Outer size of connection pipe	mm	Φ6, Φ9.52
Material of inner tank	-	Enamel
Made of defending cauterization	-	Mg anode

Note:

*1: The hot water converter is only matched with the outdoor unit model of GMV-S(120~160)WL/A-S.
*2: The hot water converter is only matched with the water tank model of SXTD200LCJW/A-K.
*3: Please consult the sales person for the water tank.

Outdoor Unit

Model			GMV-S120WL/A-S	GMV-S140WL/A-S	GMV-S160WL/A-S
Capacity range		HP	4	5	6
Cooling capacity	Rated	kW	12.1	14.0	16.0
	Max.	kW	12.1	14.0	16.0
Heating capacity	Rated	kW	12.1	14.0	16.0
	Max.	kW	14.0	16.5	18.5
SEER	Ducted	-	6.70	6.88	6.96
	Cassette	-	6.70	6.79	6.55
SCOP	Ducted	-	3.97	4.24	4.04
	Cassette	-	3.93	4.24	4.06
Max. circuit/Fuse current		A	32	32	40
Power supply		V/Ph/Hz	220-240V~ 50/60Hz		
Maximum drive IDU NO.		unit	6	7	8
Refrigerant charge volume		kg	5	5	5
Sound power level		dB(A)	75	75	77
Connecting pipe	Liquid	mm	Φ 9.52	Φ 9.52	Φ 9.52
	Gas	mm	Φ 15.90	Φ 15.90	Φ 19.05
	Gas(high pressure)	mm	Φ 12.7	Φ 12.7	Φ 12.7
Dimension(W × D × H)	Outline	mm	900 ×340 ×1345	900 ×340 ×1345	900 ×340 ×1345
	Package	mm	998 ×458 ×1500	998 ×458 ×1500	998 ×458 ×1500
Net weight/ Gross weight		kg	113/123	113/123	113/123
Loading quantity	40'GP	unit	57	57	57
	40'HQ	unit	57	57	57

GMV6

INVERTER R410A

DC Inverter Multi VRF Unit (R410A, Inverter)

Gree new generation modular all inverter VRF unit GMV6 adopts world-leading CAN+ communication technology, energy-saving technology, high-efficiency smart control and other innovative technologies. This unit is also with new generation smart management control solution as well as clean and healthy fresh air solution. It enables excellent energy conservation, comfort and stability.

- Adopt high-efficiency EVI system design； the compressor matches with the complete unit perfectly;
- Adopt new-type big air volume blade. The s-shaped trailing edge design effectively increase the work area of blade to greatly enhance the air volume;
- Adopt new HPAC modular control method. It can smartly adjust the distribution method according to indoor load requirements to ensure the service life of the whole module and improve the overall energy efficiency;
- Connect ERV or ERV+DX COIL to effectively remove particulate pollutant for improving indoor air quality;
- Air-makeup enthalpy-adding compressor design is applied for stronger cooling and heating performance and wider operation range from -30℃~55℃;
- With compact unit body design, new generation 12HP model saves floor area by 29% compared with the last generation model;
- New refrigerant and refrigeration oil circular design, and air-makeup enthalpy-adding circulation are adopted for better performances in high-temperature cooling and low-temperature heating and more reliable operation.

EUROVENT CERTIFIED PERFORMANCE

CE

GMV6 CP Outdoor Unit Lineup (380-415V 3N~ 50/60Hz)

HP	Model	GMV-224WM/H1-X	GMV-280WM/H1-X	GMV-335WM/H1-X	GMV-400WM/H1-X	GMV-450WM/H1-X	GMV-504WM/H1-X	GMV-560WM/H1-X	GMV-615WM/H1-X
8	GMV-224WM/H1-X	●							
10	GMV-280WM/H1-X		●						
12	GMV-335WM/H1-X			●					
14	GMV-400WM/H1-X				●				
16	GMV-450WM/H1-X					●			
18	GMV-504WM/H1-X						●		
20	GMV-560WM/H1-X							●	
22	GMV-615WM/H1-X								●
24	GMV-680WM/H1-X		●		●				
26	GMV-730WM/H1-X		●			●			
28	GMV-784WM/H1-X		●				●		
30	GMV-840WM/H1-X		●					●	
32	GMV-895WM/H1-X		●						●
34	GMV-950WM/H1-X			●					●
36	GMV-1015WM/H1-X				●				●
38	GMV-1065WM/H1-X					●			
40	GMV-1119WM/H1-X						●		●
42	GMV-1175WM/H1-X							●	●
44	GMV-1230WM/H1-X								●●
46	GMV-1290WM/H1-X		●			●		●	
48	GMV-1345WM/H1-X		●			●			●
50	GMV-1400WM/H1-X			●		●			●
52	GMV-1455WM/H1-X		●					●	●
54	GMV-1510WM/H1-X		●						●●
56	GMV-1565WM/H1-X			●					●●
58	GMV-1630WM/H1-X				●				●●
60	GMV-1680WM/H1-X					●			●●
62	GMV-1734WM/H1-X						●		●●
64	GMV-1790WM/H1-X							●	●●
66	GMV-1845WM/H1-X								●●●
68	GMV-1905WM/H1-X		●			●		●	●
70	GMV-1959WM/H1-X		●				●	●	●
72	GMV-2015WM/H1-X		●					●●	●
74	GMV-2070WM/H1-X		●					●	●●
76	GMV-2125WM/H1-X		●						●●●
78	GMV-2180WM/H1-X			●					●●●
80	GMV-2245WM/H1-X				●				●●●
82	GMV-2295WM/H1-X					●			●●●
84	GMV-2349WM/H1-X						●		●●●
86	GMV-2405WM/H1-X							●	●●●
88	GMV-2460WM/H1-X								●●●●

GMV6 Outdoor Unit Lineup (380-415V 3N~ 50/60Hz)

HP	Model	GMV-224WM/H-X	GMV-280WM/H-X	GMV-335WM/H-X	GMV-400WM/H-X	GMV-450WM/H-X	GMV-504WM/H-X	GMV-560WM/H-X	GMV-615WM/H-X
8	GMV-224WM/H-X	●							
10	GMV-280WM/H-X		●						
12	GMV-335WM/H-X			●					
14	GMV-400WM/H-X				●				
16	GMV-450WM/H-X					●			
18	GMV-504WM/H-X						●		
20	GMV-560WM/H-X							●	
22	GMV-615WM/H-X								●
24	GMV-680WM/H-X		●		●				
26	GMV-730WM/H-X		●			●			
28	GMV-784WM/H-X		●				●		
30	GMV-840WM/H-X		●					●	
32	GMV-895WM/H-X		●						●
34	GMV-950WM/H-X			●					●
36	GMV-1015WM/H-X				●				●
38	GMV-1065WM/H-X					●			
40	GMV-1119WM/H-X						●		●
42	GMV-1175WM/H-X							●	●
44	GMV-1230WM/H-X								●●
46	GMV-1290WM/H-X		●			●		●	
48	GMV-1345WM/H-X		●			●			●
50	GMV-1400WM/H-X			●		●			●
52	GMV-1455WM/H-X		●					●	●
54	GMV-1510WM/H-X		●						●●
56	GMV-1565WM/H-X			●					●●
58	GMV-1630WM/H-X				●				●●
60	GMV-1680WM/H-X					●			●●
62	GMV-1734WM/H-X						●		●●
64	GMV-1790WM/H-X							●	●●
66	GMV-1845WM/H-X								●●●
68	GMV-1905WM/H-X		●			●		●	●
70	GMV-1959WM/H-X		●				●	●	●
72	GMV-2015WM/H-X		●					●●	●
74	GMV-2070WM/H-X		●					●	●●
76	GMV-2125WM/H-X		●						●●●
78	GMV-2180WM/H-X			●					●●●
80	GMV-2245WM/H-X				●				●●●
82	GMV-2295WM/H-X					●			●●●
84	GMV-2349WM/H-X						●		●●●
86	GMV-2405WM/H-X							●	●●●
88	GMV-2460WM/H-X								●●●●

Model			GMV-224WM/H(1)-X	GMV-280WM/H(1)-X	GMV-335WM/H(1)-X	GMV-400WM/H(1)-X	GMV-450WM/H(1)-X	GMV-504WM/H(1)-X	GMV-560WM/H(1)-X	GMV-615WM/H(1)-X
Capacity range		HP	8	10	12	14	16	18	20	22
Cooling capacity	Rated *	kW	22.4	28.0	33.5	40.0	45.0	50.4	52.0	52.0
	Max.	kW	22.4	28.0	33.5	40.0	45.0	50.4	56.0	61.5
Heating capacity	Rated *	kW	22.4	28.0	33.5	40.0	45.0	50.4	56.0	56.0
	Max.	kW	25.0	31.5	37.5	45.0	50.0	56.5	63.0	69.0
SEER	Ducted *	-	7.10	6.66	6.31	6.75	6.24	6.12	5.97	6.02
	Cassette *	-	7.80	6.33	6.58	6.74	6.41	6.44	5.67	5.75
SCOP	Ducted *	-	4.62	4.80	4.40	4.80	4.84	4.19	4.10	4.10
	Cassette *	-	4.50	4.75	4.66	4.44	4.44	3.71	3.71	3.71
ηs,c	Ducted *	%	281.0	263.4	249.4	267.0	246.6	241.8	235.8	237.8
	Cassette *	%	309.0	250.0	260.2	266.4	253.3	254.4	223.8	226.9
ηs,h	Ducted *	%	181.8	189.0	173.0	189.0	190.6	164.6	161.0	161.0
	Cassette *	%	177.0	187.0	183.4	174.6	174.6	145.4	145.4	145.4
Power supply		V/Ph/Hz	380-415V 3N~ 50/60Hz							
Min. circuit/Max. Fuse current		A	23.0/25.0	23.5/25.0	24.1/25.0	37.5/40.0	39.3/40.0	47.0/50.0	48.0/50.0	49.0/50.0
Maximum drive IDU NO.		unit	13	16	19	23	26	29	33	36
Refrigerant charge volume		kg	5.5	5.5	7.5	7.5	7.5	8.3	8.3	8.3
Sound pressure level(Cooling)		dB(A)	56	57	59	59	60	61	62	63
Sound power level(Cooling)	Ducted *	dB(A)	80	84	86	90	93	93	93	93
	Cassette *	dB(A)	82	86	86	88	93	88	94	94
Connecting pipe	Liquid	mm	Φ9.52	Φ9.52	Φ12.70	Φ12.70	Φ12.70	Φ15.90	Φ15.90	Φ15.90
	Gas	mm	Φ19.05	Φ22.2	Φ25.40	Φ25.40	Φ28.60	Φ28.60	Φ28.60	Φ28.60
Dimension(W×D×H)	Outline	mm	930×775×1690	930×775×1690	930×775×1690	1340×775×1690	1340×775×1690	1340×775×1690	1340×775×1690	1340×775×1690
	Package	mm	1000×830×1855	1000×830×1855	1000×830×1855	1400×830×1855	1400×830×1855	1400×830×1855	1400×830×1855	1400×830×1855
Net weight/Gross weight		kg	220/230	220/230	240/250	300/315	300/315	350/365	350/365	355/370
Loading quantity	20' GP	unit	12	12	12	10	10	10	10	10
	40' GP	unit	28	28	28	22	22	22	22	22
	40' HQ	unit	28	28	28	22	22	22	22	22

Note: The data is Eurovent certified.

Specifications of ODU Combinations

HP	Model	Power Supply	Capacity				SEER		SCOP		ηs,c		ηs,h		Sound power level (Cooling)	Dimension (W×D×H)	Airflow Volume	ESP	Connectingpipe		Min.circuitcurrent	Max.fusecurrent	Net weight
			Cooling		Heating														Liquid	Gas			
			Rated	Max.	Rated	Max.	Ducted*	Cassette*	Ducted*	Cassette*	Ducted*	Cassette*	Ducted*	Cassette*									
			kW	kW	kW	kW	-	-	-	-	%	%	%	%	dB(A)	mm	m³/h	Pa	mm	mm	A	A	kg
24	GMV-680WM/H(1)-X	380-415V 3N~ 50/60Hz	68.0	68.0	68.0	76.5	6.71	6.56	4.80	4.56	265.4	259.4	188.9	179.5	90	930×775×1690+1340×775×1690	10500+13500	110	Φ15.9	Φ28.6	23.5+37.5	25+40	220+300
26	GMV-730WM/H(1)-X		73.0	73.0	73.0	81.5	6.39	6.37	4.82	4.56	252.7	252.0	189.9	179.5	93		10500+15400	110	Φ19.05	Φ31.8	23.5+39.3	25+40	220+300
28	GMV-784WM/H(1)-X		78.4	78.4	78.4	88.0	6.30	6.40	4.39	4.00	248.9	252.8	172.4	156.9	93		10500+16000	110	Φ19.05	Φ31.8	23.5+47	25+50	220+350
30	GMV-840WM/H(1)-X		80.0	84.0	84.0	94.5	6.19	5.87	4.31	4.00	244.6	231.9	169.4	156.9	93		10500+16500	110	Φ19.05	Φ31.8	23.5+48	25+50	220+350
32	GMV-895WM/H(1)-X		80.0	89.5	89.5	100.5	6.22	5.93	4.31	4.00	245.9	234.3	169.4	156.9	93		10500+16500	110	Φ19.05	Φ31.8	23.5+49	25+50	220+355
34	GMV-950WM/H(1)-X		85.5	95.0	95.0	106.5	6.13	6.04	4.20	4.01	242.0	238.7	165.1	157.4	93		11100+16500	110	Φ19.05	Φ31.8	24.1+49	25+50	240+355
36	GMV-1015WM/H(1)-X		92.0	101.5	101.5	114.0	6.31	6.13	4.35	3.98	249.4	242.4	170.8	156.3	94	1340×775×1690×2	13500+16500	110	Φ19.05	Φ38.1	37.5+49	40+50	300+355
38	GMV-1065WM/H(1)-X		97.0	106.5	106.5	119.0	6.12	6.03	4.38	3.98	241.7	238.3	172.4	156.3	96		15400+16500	110	Φ19.05	Φ38.1	39.3+49	40+50	300+355
40	GMV-1119WM/H(1)-X		102.4	111.9	111.9	125.5	6.06	6.06	4.14	3.71	239.6	239.4	162.6	145.2	96		16000+16500	110	Φ19.05	Φ38.1	47+49	50+50	350+355
42	GMV-1175WM/H(1)-X		104.0	117.5	117.5	132.0	5.99	5.70	4.10	3.71	236.7	225.0	161.0	145.2	96		16500×2	110	Φ19.05	Φ38.1	48+49	50+50	350+355
44	GMV-1230WM/H(1)-X		104.0	123.0	123.0	138.0	6.02	5.74	4.10	3.71	237.6	226.7	161.0	145.2	96		16500×2	110	Φ19.05	Φ38.1	49+49	50+50	355×2
46	GMV-1290WM/H(1)-X		125.0	129.0	129.0	144.5	6.21	6.05	4.47	4.13	245.3	239.2	175.8	162.3	96	930×775×1690+(1340×775×1690)×2	10500+15400+16500	110	Φ19.05	Φ38.1	23.5+39.3+48	25+40+50	220+300+350
48	GMV-1345WM/H(1)-X		125.0	134.5	134.5	150.5	6.23	6.09	4.47	4.13	246.2	240.8	175.8	162.3	96		10500+15400+16500	110	Φ19.05	Φ38.1	23.5+39.3+49	25+40+50	220+300+355
50	GMV-1400WM/H(1)-X		130.5	140.0	140.0	156.5	6.16	6.16	4.39	4.13	243.6	243.5	172.5	162.4	96		11100+15400+16500	110	Φ19.05	Φ41.3	24.1+39.3+49	25+40+50	240+300+355
52	GMV-1455WM/H(1)-X		132.0	145.5	145.5	163.5	6.12	5.82	4.22	3.88	241.8	229.8	165.9	152.0	96		10500+16500×2	110	Φ19.05	Φ41.3	23.5+48+49	25+50+50	220+350+355
54	GMV-1510WM/H(1)-X		132.0	151.0	151.0	169.5	6.14	5.85	4.22	3.88	242.6	231.2	165.9	152.0	96		10500+16500×2	110	Φ19.05	Φ41.3	23.5+49+49	25+50+50	220+355×2
56	GMV-1565WM/H(1)-X		137.5	156.5	156.5	175.5	6.08	5.92	4.16	3.89	240.3	234.0	163.5	152.5	96		11100+16500×2	110	Φ19.05	Φ41.3	24.1+49+49	25+50+50	240+355×2
58	GMV-1630WM/H(1)-X		144.0	163.0	163.0	183.0	6.20	5.99	4.25	3.88	245.0	236.5	167.0	152.0	96		13500+16500×2	110	Φ19.05	Φ41.3	37.5+49+49	40+50+50	300+355×2
60	GMV-1680WM/H(1)-X		149.0	168.0	168.0	188.0	6.08	5.93	4.28	3.88	240.3	234.1	168.1	152.0	97	1340×775×1690×3	15400+16500×2	110	Φ19.05	Φ41.3	39.3+49+49	40+50+50	300+355×2
62	GMV-1734WM/H(1)-X		154.4	173.4	173.4	194.5	6.05	5.95	4.13	3.71	238.9	234.9	162.1	145.2	97		16000+16500×2	110	Φ19.05	Φ41.3	47+49+49	50+50+50	350+355×2
64	GMV-1790WM/H(1)-X		156.0	179.0	0	201	6.00	5.71	4.10	3.71	237.0	225.5	161.0	145.2	97		16500×3	110	Φ19.05	Φ41.3	48+49+49	50+50+50	350+355×2
66	GMV-1845WM/H(1)-X		156.0	184.5	184.5	207.0	6.02	5.74	4.10	3.71	237.6	226.7	161.0	145.2	97		16500×3	110	Φ19.05	Φ41.3	49+49+49	50+50+50	355×3
68	GMV-1905WM/H(1)-X		177.0	190.5	190.5	213.5	6.15	5.96	4.35	3.99	243.0	235.3	171.0	156.6	97	930×775×1690+(1340×775×1690)×3	10500+15400+16500×2	110	Φ22.2	Φ44.5	23.5+39.3+48+49	25+40+50+50	220+300+350+355
70	GMV-1959WM/H(1)-X		182.4	195.9	195.9	220.0	6.12	5.98	4.21	3.83	241.7	236.0	165.5	150.0	97		10500+16000+16500×2	110	Φ22.2	Φ44.5	23.5+47+48+49	25+50+50+50	220+350×2+355
72	GMV-2015WM/H(1)-X		184.0	201.5	201.5	226.5	6.08	5.77	4.19	3.83	240.0	227.9	164.5	150.0	97		10500+16500×3	110	Φ22.2	Φ44.5	23.5+48+48+49	25+50+50+50	220+350×2+355
74	GMV-2070WM/H(1)X		184.0	207.0	207.0	232.5	6.09	5.80	4.19	3.83	240.6	228.9	164.5	150.0	97		10500+16500×3	110	Φ22.2	Φ44.5	23.5+48+49+49	25+50+50+50	220+350+355×2
76	GMV-2125WM/H(1)X		184.0	212.5	212.5	238.5	6.10	5.82	4.19	3.83	241.2	229.9	164.5	150.0	97		10500+16500×3	110	Φ22.2	Φ44.5	23.5+49+49+49	25+50+50+50	220+355×3
78	GMV-2180WM/H(1)X		189.5	218.0	218.0	244.5	6.06	5.87	4.14	3.83	239.6	231.9	162.8	150.4	98		11100+16500×3	110	Φ22.2	Φ44.5	24.1+49+49+49	25+50+50+50	240+355×3
80	GMV-2245WM/H(1)X		196.0	224.5	224.5	252.0	6.15	5.92	4.21	3.83	243.0	233.8	165.3	150.1	98	1340×775×1690×4	13500+16500×3	110	Φ22.2	Φ44.5	37.5+49+49+49	40+50+50+50	300+355×3
82	GMV-2295WM/H(1)X		201.0	229.5	229.5	257.0	6.06	5.88	4.23	3.83	239.6	232.1	166.1	150.1	99		15400+16500×3	110	Φ22.2	Φ44.5	39.3+49+49+49	40+50+50+50	300+355×3
84	GMV-2349WM/H(1)X		206.4	234.9	234.9	263.5	6.04	5.89	4.12	3.71	238.6	232.8	161.8	145.2	99		16000+16500×3	110	Φ22.2	Φ44.5	47+49+49+49	50+50+50+50	350+355×3
86	GMV-2405WM/H(1)X		208.0	240.5	240.5	270.0	6.00	5.72	4.10	3.71	237.1	225.8	161.0	145.2	99		16500×4	110	Φ22.2	Φ44.5	48+49+49+49	50+50+50+50	350+355×3
88	GMV-2460WM/H(1)X		208.0	246.0	246.0	276.0	6.02	5.74	4.10	3.71	237.6	226.7	161.0	145.2	99		16500×4	110	Φ22.2	Φ44.5	49+49+49+49	50+50+50+50	355×4

Note:The combination models of the outdoor units are not Eurovent certified.

GMV6 HR

INVERTER R410A

GMV6 HR Series integrates multiple functions of cooling, heating, water heating, floor heating and heat supply, featuring powerful functions and convenient operation. It adopts DC inverter enthalpy-adding compressor and brand new high-efficiency heat exchanger, to achieve -25℃ ultra-low ambient temperature heating, continuous heating and other functions for more energy savings and higher energy efficiency.

- The indoor unit can perform cooling and heating simultaneously, as well as water heating and floor heating functions;
- -25℃ ultra-low ambient temperature heating can be achieved;
- Outdoor unit capacity ranges from 8HP to 22HP with maximum combination capacity of 88HP, meeting various engineering demands;
- One unit with multiple functions of cooling, heating, water heating, floor heating and heat supply, meeting various demands of the customers;
- Continuous heating function is available to further improve the comfort and energy efficiency of the unit;
- High-efficiency enthalpy-adding DC inverter compressor and high-efficiency DC motor are adopted. Energy efficiency reaches 9.0 under heat recovery status;
- Strong low-temperature injection technology and integrated aluminum electric control and high-efficiency radiation design are adopted, achieving operation in wide ambient temperature range from -25℃~55℃;
- Outdoor static pressure is up to 110Pa, reducing engineering application requirement and making equipment floor design more convenient;
- It can match with the new generation mode exchange unit. The compact structure design reduces the size by 20% in maximum. Meanwhile, pipe port design with flexible diameters is adopted for more convenient installation.

EUROVENT CERTIFIED PERFORMANCE

CE

Item	Nominal operating condition (temperature)				Operation range (temperature)
	Outdoor condition		Indoor condition		Outdoor condition
	DB (℃)	WB (℃)	DB (℃)	WB (℃)	DB (℃)
Cooling	35	24	27	19	-10~55
Heating	7	6	20	15	-25~24

Mode Exchange Unit

Model	Product Outlook
NCHS1D	
NCHS2D	
NCHS4D	
NCHS8D	

Hydro Box

Model	Product Outlook
NRQR16L/A-T	
NRQR30L/A-T	

Outdoor Unit (380-415V 3N~50/60Hz)

Model			GMV-VQ224WM/C-X	GMV-VQ280WM/C-X	GMV-VQ335WM/C-X	GMV-VQ400WM/C-X	GMV-VQ450WM/C-X	GMV-VQ504WM/C-X	GMV-VQ560WM/C-X	GMV-VQ615WM/C-X
Capacity range		HP	8	10	12	14	16	18	20	22
Cooling capacity	Rated *	kW	22.4	28.0	33.5	40.0	45.0	50.4	52.0	52.0
	Max.	kW	22.4	28.0	33.5	40.0	45.0	50.4	56.0	61.5
Heating capacity	Rated *	kW	22.4	28.0	33.5	40.0	45.0	50.4	56.0	56.0
	Max.	kW	25.0	31.5	37.5	45.0	50.0	56.5	63.0	69.0
SEER	Ducted *	-	7.00	6.76	6.61	6.97	6.53	6.54	6.38	6.32
	Cassette *	-	7.25	6.49	6.73	6.25	6.22	6.78	6.42	6.36
SCOP	Ducted *	-	4.32	4.58	4.74	4.44	4.42	4.25	4.15	4.15
	Cassette *	-	4.30	4.44	4.37	4.44	4.51	4.34	4.34	4.34
ηs,c	Ducted *	%	277.0	267.4	261.4	275.8	258.2	258.6	252.2	249.8
	Cassette *	%	287.0	256.6	266.1	247.0	245.7	268.2	253.7	251.4
ηs,h	Ducted *	%	169.8	180.2	186.6	174.6	173.8	167.0	163.0	163.0
	Cassette *	%	169.0	174.6	171.8	174.6	177.4	170.6	170.6	170.6
Power supply		V/Ph/Hz	380-415V 3N~50/60Hz							
Min. circuit/Max. Fusecurrent		A	23.0/25	23.5/25	24.1/25	37.5/40	39.3/40	47.0/50	48.0/50	49.0/50
Max.drive IDU NO.		unit	13	16	19	23	26	29	33	36
Refrigerant charge volume		kg	8.2	8.5	9.6	11.1	11.6	12.8	12.8	13.3
Airflow rate		m^3/h	9750	10500	11100	13500	15400	16000	16500	16500
Sound pressure level(Cooling)		dB(A)	60	61	63	63	63	63	63	64
Sound power level(Cooling)	Ducted *	dB(A)	80	82	84	91	91	88	88	88
	Cassette *	dB(A)	80	84	86	87	94	87	89	89
Connecting pipe	Liquid	mm	Φ9.52	Φ9.52	Φ12.70	Φ12.70	Φ12.70	Φ15.90	Φ15.90	Φ15.90
	High pressu	mm	Φ15.90	Φ19.05	Φ19.05	Φ22.20	Φ22.20	Φ25.40	Φ25.40	Φ25.40
	Low pressur	mm	Φ19.05	Φ22.20	Φ25.40	Φ25.40	Φ28.60	Φ28.60	Φ28.60	Φ28.60
Dimension(W*D*H)	Outline	mm	930×775×1690	930×775×1690	930×775×1690	1340×775×1690	1340×775×1690	1340×775×1690	1340×775×1690	1340×775×1690
	Package	mm	1000×830×1855	1000×830×1855	1000×830×1855	1400×830×1855	1400×830×1855	1400×830×1855	1400×830×1855	1400×830×1855
Net weight/Gross weight		kg	243/253	243/253	256/266	325/340	325/340	385/400	385/400	385/400
Loading quantity	20' GP	unit	12	12	12	10	10	10	10	10
	40' GP	unit	28	28	28	22	22	22	22	22
	40' HQ	unit	28	28	28	22	22	22	22	22

Note: The data is Eurovent certified.

Mode Exchange Unit

Model				NCHS1D	NCHS2D	NCHS4D	NCHS8D
Number of branches			unit	1	2	4	8
Max. number of connectable IDUs		Per branch	unit	8	8	8	8
		Total	unit	8	16	32	64
Max. capacity of connectable IDUs		Per branch	kW	16	16	16	16
		Total	kW	16	28	45	85
Power supply			V/Ph/Hz	220-240V ~ 50/60Hz			
Power comsumption		Cooling	W	14	25	32	90
		Heating	W	14	25	32	90
Piping connections	Outdoor units	Liquid	mm	Φ9.52	Φ9.52	Φ12.70	Φ15.90
		High pressure gas	mm	Φ19.05	Φ19.05	Φ22.20	Φ22.20
		Low pressure gas	mm	Φ22.2	Φ22.2	Φ28.6	Φ28.6
	Indoor units	Liquid	mm	Φ6.35/9.52	Φ6.35/9.52	Φ6.35/9.52	Φ6.35/9.52
		Gas	mm	Φ12.7/15.9	Φ12.7/15.9	Φ12.7/15.9	Φ12.7/15.9
Dimension(W × D × H)		Outline	mm	340 × 388 × 250	340 × 388 × 250	460 × 388 × 250	784 × 388 × 250
		Package	mm	863 × 624 × 298	863 × 624 × 298	979 × 624 × 303	1300 × 624 × 288
Net weight/Gross weight			kg	12.0/17.5	14.5/20.5	20.6/27.0	33.0/42.0

Hydro Box

Model				NRQR16L/A-T	NRQR30L/A-T
Floor heating capacity			kW	16	30
Hot water heating capacity			kW	4.5（3.6~16）	4.5（3.6~30）
Power supply			V/Ph/Hz	220-240V ~ 50Hz & 208-230V ~ 60Hz	220-240V ~ 50Hz & 208-230V ~ 60Hz
Connecting pipe diameter	to exchange unit	Gas	mm	15.9	22.2
		Liquid	mm	9.52	9.52
	to water tank		mm	25	25
Rated water flow			L/min	46	86
Dimension(W × D × H)		Outling	mm	515 × 330 × 606	
		Package	mm	685 × 473 × 657	
Net/Gross weight			kg	36/42	40/47
Loading quantity		40' GP/40' HQ	set	252/336	252/336

GMV6 HR Outdoor Units Lineup

Model	GMV-VQ224WM/C-X	GMV-VQ280WM/C-X	GMV-VQ335WM/C-X	GMV-VQ400WM/C-X	GMV-VQ450WM/C-X	GMV-VQ504WM/C-X	GMV-VQ560WM/C-X	GMV-VQ615WM/C-X
GMV-VQ224WM/C-X	⬢							
GMV-VQ280WM/C-X		⬢						
GMV-VQ335WM/C-X			⬢					
GMV-VQ400WM/C-X				⬢				
GMV-VQ450WM/C-X					⬢			
GMV-VQ504WM/C-X						⬢		
GMV-VQ560WM/C-X							⬢	
GMV-VQ615WM/C-X								⬢
GMV-VQ680WM/C-X		⬢		⬢				
GMV-VQ730WM/C-X		⬢			⬢			
GMV-VQ784WM/C-X		⬢				⬢		
GMV-VQ840WM/C-X		⬢					⬢	
GMV-VQ895WM/C-X		⬢						⬢
GMV-VQ950WM/C-X			⬢					⬢
GMV-VQ1015WM/C-X				⬢				⬢
GMV-VQ1065WM/C-X					⬢			⬢
GMV-VQ1119WM/C-X						⬢		⬢
GMV-VQ1175WM/C-X							⬢	⬢
GMV-VQ1230WM/C-X								⬢⬢
GMV-VQ1290WM/C-X		⬢			⬢		⬢	
GMV-VQ1345WM/C-X		⬢			⬢			⬢
GMV-VQ1400WM/C-X			⬢		⬢			⬢
GMV-VQ1455WM/C-X		⬢					⬢	⬢
GMV-VQ1510WM/C-X		⬢						⬢⬢
GMV-VQ1565WM/C-X			⬢					⬢⬢
GMV-VQ1630WM/C-X				⬢				⬢⬢
GMV-VQ1680WM/C-X					⬢			⬢⬢
GMV-VQ1734WM/C-X						⬢		⬢⬢
GMV-VQ1790WM/C-X							⬢	⬢⬢
GMV-VQ1845WM/C-X								⬢⬢⬢
GMV-VQ1905WM/C-X		⬢			⬢		⬢	⬢
GMV-VQ1959WM/C-X		⬢				⬢	⬢	⬢
GMV-VQ2015WM/C-X		⬢					⬢⬢	⬢
GMV-VQ2070WM/C-X		⬢					⬢	⬢⬢
GMV-VQ2125WM/C-X		⬢						⬢⬢⬢
GMV-VQ2180WM/C-X			⬢					⬢⬢⬢
GMV-VQ2245WM/C-X				⬢				⬢⬢⬢
GMV-VQ2295WM/C-X					⬢			⬢⬢⬢
GMV-VQ2349WM/C-X						⬢		⬢⬢⬢
GMV-VQ2405WM/C-X							⬢	⬢⬢⬢
GMV-VQ2460WM/C-X								⬢⬢⬢⬢

GMV6 HR（380-415V 3N~50/60Hz）

HP	Model	Power Supply	Capacity				SEER		SCOP		ηs,c		ηs,h		Sound power level(Cooling)	Dimension (W ×D ×H)	Airflow Volume	ESP	Connecting pipe			Min.circuit current	Max.fuse current	Net weight
			Cooling		Heating														Liquid	HP Gas	LP Gas			
			Rated	Max.	Rated	Max.	Ducted *	Cassette *	Ducted *	Cassette *	Ducted *	Cassette *	Ducted *	Cassette *										
			kW	kW	kW	kW	-	-	-	-	%	%	%	%	dB(A)	mm	m^3/h	Pa	mm	mm	mm	A	A	kg
24	GMV-VQ680WM/C-X	380-415V 3N~50/60Hz	68.0	68.0	68.0	76.5	6.88	6.34	4.50	4.44	272.2	250.7	177.0	174.5	91	930×775×1690+1340×775×1690	10500+13500	110	Φ15.9	Φ25.4	Φ28.6	23.5+37.5	25+40	243+325
26	GMV-VQ730WM/C-X		73.0	730	73.0	81.5	6.61	6.31	4.48	4.48	261.5	249.5	176.1	176.0	91		10500+15400	110	Φ19.05	Φ28.6	Φ31.8	23.5+39.3	25+40	243+325
28	GMV-VQ784WM/C-X		78.4	78.4	78.4	88.0	6.62	6.67	4.36	4.37	261.8	263.9	171.4	171.7	88		10500+16500	110	Φ19.05	Φ28.6	Φ31.8	23.5+47	25+50	243+385
30	GMV-VQ840WM/C-X		80.0	84.0	84.0	94.5	6.51	6.43	4.28	4.37	257.3	254.2	168.4	171.7	88		10500+16500	110	Φ19.05	Φ28.6	Φ31.8	23.5+48	25+50	243+385
32	GMV-VQ895WM/C-X		80.0	89.5	89.5	100.5	6.47	6.39	4.28	4.37	255.7	252.6	168.4	171.7	88		10500+16500	110	Φ19.05	Φ28.6	Φ31.8	23.5+49	25+50	243+385
34	GMV-VQ950WM/C-X		85.5	95.0	95.0	106.5	6.43	6.48	4.35	4.35	254.3	256.4	171.1	171.0	89		11100+16500	110	Φ19.05	Φ28.6	Φ31.8	24.1+49	25+50	256+385
36	GMV-VQ1015WM/C-X		92.0	101.5	101.5	114.0	6.59	6.30	4.26	4.38	260.4	249.0	167.6	172.2	92	(1340×775×1690)×2	13500+16500	110	Φ19.05	Φ31.8	Φ38.1	37.5+49	40+50	325+385
38	GMV-VQ1065WM/C-X		97.0	106.5	106.5	119.0	6.41	6.28	4.26	4.41	253.5	248.2	167.5	173.2	92		15400+16500	110	Φ19.05	Φ31.8	Φ38.1	39.3+49	40+50	325+385
40	GMV-VQ1119WM/C-X		102.4	111.9	111.9	125.5	6.43	6.55	4.20	4.34	254.1	258.9	165.0	170.6	91		16500 ×2	110	Φ19.05	Φ31.8	Φ38.1	47+49	50+50	385 ×2
42	GMV-VQ1175WM/C-X		104.0	117.5	117.5	132.0	6.35	6.37	4.15	4.34	251.0	251.8	163.2	170.6	91		16500 ×2	110	Φ19.05	Φ31.8	Φ38.1	48+49	50+50	385 ×2
44	GMV-VQ1230WM/C-X		104.0	123.0	123.0	138.0	6.32	6.34	4.15	4.34	249.8	250.6	163.2	170.6	91		16500 ×2	110	Φ19.05	Φ31.8	Φ38.1	49+49	50+50	385 ×2
46	GMV-VQ1290WM/C-X		125.0	129.0	129.0	144.5	6.51	6.35	4.33	4.41	249.8	250.9	170.1	173.4	93	930×775×1690+(1340×775×1690)×2	10500+15400+1650	110	Φ19.05	Φ31.8	Φ38.1	23.5+39.3+48	25+40+50	243+325+385
48	GMV-VQ1345WM/C-X		125.0	134.5	134.5	150.5	6.49	6.32	4.33	4.41	257.5	249.9	170.1	173.4	93		10500+15400+1650	110	Φ19.05	Φ31.8	Φ38.1	23.5+39.3+49	25+40+50	243+325+385
50	GMV-VQ1400WM/C-X		130.5	140.0	140.0	156.5	6.46	6.39	4.37	4.40	256.5	252.5	171.9	172.9	93		11100+15400+1650	110	Φ19.05	Φ38.1	Φ41.3	24.1+39.3+49	25+40+50	256+325+385
52	GMV-VQ1455WM/C-X		132.0	145.5	145.5	163.5	6.43	6.39	4.23	4.36	255.5	252.7	166.2	171.3	91		10500+16500 ×2	110	Φ19.05	Φ38.1	Φ41.3	23.5+48+49	25+50+50	243+385×2
54	GMV-VQ1510WM/C-X		132.0	151.0	151.0	169.5	6.41	6.37	4.23	4.36	254.3	251.8	166.2	171.3	91		10500+16500 ×2	110	Φ19.05	Φ38.1	Φ41.3	23.5+49+49	25+50+50	243+385×2
56	GMV-VQ1565WM/C-X		137.5	156.5	156.5	175.5	6.39	6.43	4.27	4.35	253.3	254.2	168.0	170.9	91		11100+16500 ×2	110	Φ19.05	Φ38.1	Φ41.3	24.1+49+49	25+50+50	256+385×2
58	GMV-VQ1630WM/C-X		144.0	163.0	163.0	183.0	6.49	6.31	4.22	4.37	252.6	249.6	165.9	171.6	94	(1340×775×1690)×3	13500+16500 ×2	110	Φ19.05	Φ38.1	Φ41.3	37.5+49+49	40+50+50	325+385×2
60	GMV-VQ1680WM/C-X		149.0	168.0	168.0	188.0	6.38	6.30	4.22	4.38	256.5	249.0	165.9	172.2	94		15400+16500 ×2	110	Φ19.05	Φ38.1	Φ41.3	39.3+49+49	40+50+50	325+385×2
62	GMV-VQ1734WM/C-X		154.4	173.4	173.4	194.5	6.39	6.48	4.18	4.34	252.2	256.0	164.4	170.6	92		16500×3	110	Φ19.05	Φ38.1	Φ41.3	47+49+49	50+50+50	385 ×3
64	GMV-VQ1790WM/C-X		156.0	179.0	179.0	201.0	6.34	6.36	4.15	4.34	252.6	251.4	163.2	170.6	92		16500×3	110	Φ19.05	Φ38.1	Φ41.3	48+49+49	50+50+50	385 ×3
66	GMV-VQ1845WM/C-X		156.0	184.5	184.5	207.0	6.32	6.34	4.15	4.34	250.6	250.6	163.2	170.6	92		16500×3	110	Φ19.05	Φ38.1	Φ41.3	49+49+49	50+50+50	385 ×3
68	GMV-VQ1905WM/C-X		177.0	190.5	190.5	213.5	6.45	6.35	4.27	4.39	249.8	250.8	167.9	172.5	94	930×775×1690+(1340×775×1690)×3	10500+15400+1650	110	Φ22.2	Φ41.3	Φ44.5	23.5+39.3+48+49	25+40+50+50	243+325+385×2
70	GMV-VQ1959WM/C-X		182.4	195.9	195.9	220.0	6.46	6.49	4.24	4.35	255.2	256.8	166.5	171.1	93		10500+16500 ×3	110	Φ22.2	Φ41.3	Φ44.5	23.5+47+48+49	25+50+50+50	243+385×3
72	GMV-VQ2015WM/C-X		184.0	201.5	201.5	226.5	6.42	6.40	4.21	4.35	255.5	252.8	165.4	171.1	93		10500+16500 ×3	110	Φ22.2	Φ41.3	Φ44.5	23.5+48+48+49	25+50+50+50	243+385×3
74	GMV-VQ2070WM/C-X		184.0	207.0	207.0	232.5	6.40	6.38	4.21	4.35	253.7	252.1	165.4	171.1	93		10500+16500 ×3	110	Φ22.2	Φ41.3	Φ44.5	23.5+48+49+49	25+50+50+50	243+385×3
76	GMV-VQ2125WM/C-X		184.0	212.5	212.5	238.5	6.38	6.36	4.21	4.35	253.0	251.4	165.4	171.1	93		10500+16500 ×3	110	Φ22.2	Φ41.3	Φ44.5	23.5+49+49+49	25+50+50+50	243+385×3
78	GMV-VQ2180WM/C-X		189.5	218.0	218.0	244.5	6.37	6.40	4.24	4.34	252.3	253.2	166.6	170.8	93		11100+16500 ×3	110	Φ22.2	Φ41.3	Φ44.5	24.1+49+49+49	25+50+50+50	256+385×3
80	GMV-VQ2245WM/C-X		196.0	224.5	224.5	252.0	6.44	6.32	4.20	4.36	251.8	249.8	165.1	171.3	94	(1340×775×1690)×4	13500+16500 ×3	110	Φ22.2	Φ41.3	Φ44.5	37.5+49+49+49	40+50+50+50	325+385×3
82	GMV-VQ2295WM/C-X		201.0	229.5	229.5	257.0	6.36	6.31	4.20	4.37	254.7	249.4	165.2	171.8	94		15400+16500 ×3	110	Φ22.2	Φ41.3	Φ44.5	39.3+49+49+49	40+50+50+50	325+385×3
84	GMV-VQ2349WM/C-X		206.4	234.9	234.9	263.5	6.37	6.44	4.18	4.34	251.6	254.6	164.1	170.6	94		16500×4	110	Φ22.2	Φ41.3	Φ44.5	47+49+49+49	50+50+50+50	385 ×4
86	GMV-VQ2405WM/C-X		208.0	240.5	240.5	270.0	6.33	6.35	4.15	4.34	251.9	251.2	163.2	170.6	94		16500×4	110	Φ22.2	Φ41.3	Φ44.5	48+49+49+49	50+50+50+50	385 ×4
88	GMV-VQ2460WM/C-X		208.0	246.0	246.0	276.0	6.32	6.34	4.15	4.34	250.4	250.6	163.2	170.6	94		16500×4	110	Φ22.2	Φ41.3	Φ44.5	49+49+49+49	50+50+50+50	385 ×4

Note:The combination models of the outdoor units are not Eurovent certified.

GMV Mini Star

DC Inverter Multi VRF Unit (R410A, Inverter)

Gree Multi VRF System adopts inverter compressor technology. By changing the displacement of compressor, stepless capacity regulation within range of 10%~100% can be realized. Various product lineups are provided with capacity range from 12kw to 16kw, which can be widely used in residential, commercial and working area and especially applicable to places with big load change. Gree residential air conditioner is absolutely your best choice.

- Outdoor unit quiet design with brand new compressor and duct system – greatly reducing outdoor unit noise; operating sound of a 6HP outdoor unit is only 53dB.
- Dynamic control of compressor and fan according to the load change of VRF units; outdoor unit noise is lower if only one 1HP indoor unit is used.
- U-shaped efficient heat exchange structure is adopted, resulting in 10% increase in windward area and better heat exchange capacity.
- Efficient compressor drive technology and auto optimization of control angel – compressor torque control angle can be automatically optimized; within the compressor frequency range, control efficiency is over 97%.
- The use of high-efficiency refrigerant cooling module significantly reduces the size while ensuring the heat dissipation effect.
- New generation CAN bus communication technology is adopted to achieve non-polar communication and strong anti-interference capability.

Model	Nominal operating condition (temperature)				Operation range (temperature)
	Outdoor condition		Indoor condition		Outdoor condition
	DB (℃)	WB (℃)	DB (℃)	WB (℃)	DB (℃)
Cooling	35	24	27	19	-5~52

Specifications of ODU Combinations

Model			GMV-120WL/C1-S	GMV-140WL/C1-S	GMV-160WL/C1-S
Capacity range		HP	4	5	6
Cooling capacity	Rated	kW	12.1	14.0	16.0
	Max.	kW	12.1	14.0	16.0
Heating capacity	Rated	kW	12.1	14.0	16.0
	Max.	kW	14.0	16.5	18.5
SEER	Ducted	-	6.89	6.90	6.90
	Cassette	-	7	7	7
SCOP	Ducted	-	4.10	4.31	4.10
	Cassette	-	4.10	4.37	4.26
Power supply		V/Ph/Hz	220-240V ~ 50/60Hz		
Min.circuit/Max.fuse current		A	30.2/32	30.8/32	31.5/32
Maximum drive IDU NO		unit	7	8	9
Refrigerant charge volume		kg	3.2	3.2	3.3
Sound power level(cooing)	Ducted	dB(A)	74	75	75
	Cassette	dB(A)	72	73	76
Connecting pipe	Liquid	mm	Φ9.52	Φ9.52	Φ9.52
	Gas	mm	Φ15.90	Φ15.90	Φ19.05
Dimension (W×D×H)	Outline	mm	900×340×1345	900×340×1345	900×340×1345
	Package	mm	998×458×1500	998×458×1500	998×458×1500
Net weight/Gross weight		kg	97/107	97/107	98/108
Loading quantity	40'GP	unit	57	57	57
	40'HQ	unit	57	57	57

Indoor Units

High Static Pressure Duct Type Indoor Unit

Model			GMV-ND22PHS/B-T	GMV-ND25PHS/B-T	GMV-ND28PHS/B-T	GMV-ND32PHS/B-T	GMV-ND36PHS/B-T
Capacity	Cooling	kW	2.2	2.5	2.8	3.2	3.6
	Heating	kW	2.5	2.8	3.2	3.6	4.0
Power supply		V/Ph/Hz	220-240V~ 50Hz & 208-230V~ 60Hz				
Power consumption		W	55	55	55	65	65
Airflow volume(H/M/L)		m^3/h	550/480/400	550/480/400	550/480/400	600/500/420	600/500/420
Rated Current	Cooling	A	0.5	0.5	0.5	0.5	0.5
	Heating	A	0.5	0.5	0.5	0.5	0.5
ESP		Pa	60/0~150	60/0~150	60/0~150	60/0~150	60/0~150
Sound pressure level(H/M/L)		dB(A)	33/30/28	33/30/28	33/30/28	33/31/29	33/31/29
Connecting pipe	Liquid	mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35
	Gas	mm	Φ9.52	Φ9.52	Φ9.52	Φ12.70	Φ12.70
Drain pipe	External dia.	mm	Φ25	Φ25	Φ25	Φ25	Φ25
	Thickness	mm	2.5	2.5	2.5	2.5	2.5
Dimension (W×D×H)	Outline	mm	700×700×300	700×700×300	700×700×300	700×700×300	700×700×300
	Package	mm	897×808×360	897×808×360	897×808×360	897×808×360	897×808×360
Net weight/Gross weight		kg	32/38	32/38	32/38	32/38	32/38
Loading quantity	40'GP	unit	168	168	168	168	168
	40'HQ	unit	196	196	196	196	196

Model			GMV-ND40PHS/B-T	GMV-ND45PHS/B-T	GMV-ND50PHS/B-T	GMV-ND56PHS/B-T	GMV-ND63PHS/B-T
Capacity	Cooling	kW	4.0	4.5	5.0	5.6	6.3
	Heating	kW	4.5	5.0	5.6	6.3	7.1
Power supply		V/Ph/Hz	220-240V~ 50Hz & 208-230V~ 60Hz				
Power consumption		W	85	85	85	90	90
Airflow volume(H/M/L)		m^3/h	850/700/600	850/700/600	850/700/600	1000/800/700	1000/800/700
Rated Current	Cooling	A	0.5	0.5	0.5	0.8	0.8
	Heating	A	0.5	0.5	0.5	0.8	0.8
ESP		Pa	60/0~150	60/0~150	60/0~150	90/0~200	90/0~200
Sound pressure level(H/M/L)		dB(A)	36/34/32	36/34/32	36/34/32	37/35/33	37/35/33
Connecting pipe	Liquid	mm	Φ6.35	Φ6.35	Φ6.35	Φ9.52	Φ9.52
	Gas	mm	Φ12.7	Φ12.7	Φ12.7	Φ15.9	Φ15.9
Drain pipe	External dia.	mm	Φ25	Φ25	Φ25	Φ25	Φ25
	Thickness	mm	2.5	2.5	2.5	2.5	2.5
Dimension (W×D×H)	Outline	mm	700×700×300	700×700×300	700×700×300	1000×700×300	1000×700×300
	Package	mm	897×808×360	897×808×360	897×808×360	1205×813×360	1205×813×360
Net weight/Gross weight		kg	34/40	34/40	34/40	43/49	43/49
Loading quantity	40'GP	unit	168	168	168	138	138
	40'HQ	unit	196	196	196	161	161

Model			GMV-ND71PHS/B-T	GMV-ND80PHS/B-T	GMV-ND90PHS/B-T	GMV-ND100PHS/B-T	GMV-ND112PHS/B-T
Capacity	Cooling	kW	7.1	8.0	9.0	10.0	11.2
	Heating	kW	8.0	9.0	10.0	11.2	12.5
Power supply		V/Ph/Hz	220-240V~ 50Hz & 208-230V~ 60Hz				
Power consumption		W	100	100	140	140	160
Airflow volume(H/M/L)		m^3/h	1250/1050/950	1250/1050/950	1800/1450/1250	1800/1450/1250	2000/1600/1400
Rated Current	Cooling	A	0.8	0.8	1.1	1.1	1.1
	Heating	A	0.8	0.8	1.1	1.1	1.1
ESP		Pa	90/0~200	90/0~200	90/0~200	90/0~200	90/0~200
Sound pressure level(H/M/L)		dB(A)	38/36/34	38/36/34	40/37/35	40/37/35	40/38/36
Connecting pipe	Liquid	mm	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52
	Gas	mm	Φ15.9	Φ15.9	Φ15.9	Φ15.9	Φ15.9
Drain pipe	External dia.	mm	Φ25	Φ25	Φ25	Φ25	Φ25
	Thickness	mm	2.5	2.5	2.5	2.5	2.5
Dimension (W×D×H)	Outline	mm	1000×700×300	1000×700×300	1400×700×300	1400×700×300	1400×700×300
	Package	mm	1205×813×360	1205×813×360	1601×813×365	1601×813×365	1601×813×365
Net weight/Gross weight		kg	43/49	43/49	57/64	57/64	57/64
Loading quantity	40'GP	unit	138	138	84	84	84
	40'HQ	unit	161	161	98	98	98

Model			GMV-ND125PHS/B-T	GMV-ND140PHS/B-T	GMV-ND160PHS/B-T	GMV-ND180PHS/B-T
Capacity	Cooling	kW	12.5	14.0	16.0	18.0
	Heating	kW	14.0	16.0	18.0	20.0
Power supply		V/Ph/Hz	220-240V~ 50Hz & 208-230V~ 60Hz			
Power consumption		W	160	220	230	350
Airflow volume(H/M/L)		m^3/h	2000/1600/1400	2350/1900/1650	2500/2000/1750	3000/2600/2000
Rated Current	Cooling	A	1.1	1.5	1.5	2.0
	Heating	A	1.1	1.5	1.5	2.0
ESP		Pa	90/0~200	90/0~200	90/0~200	90/0~170
Sound pressure level(H/M/L)		dB(A)	40/38/36	42/39/37	44/41/38	49/47/44
Connecting pipe	Liquid	mm	Φ9.52	Φ9.52	Φ9.52	Φ9.52
	Gas	mm	Φ15.9	Φ15.9	Φ19.05	Φ19.05
Drain pipe	External dia.	mm	Φ25	Φ25	Φ25	Φ25
	Thickness	mm	2.5	2.5	2.5	2.5
Dimension (W×D×H)	Outline	mm	1400×700×300	1400×700×300	1400×700×300	1400×700×300
	Package	mm	1601×813×365	1678×808×365	1678×808×365	1678×808×365
Net weight/Gross weight		kg	57/64	58/67	58/67	58/67
Loading quantity	40'GP	unit	84	84	84	84
	40'HQ	unit	98	98	98	98

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

Note: This model is without water pump.

Model			GMV-ND22PHS/D-T	GMV-ND25PHS/D-T	GMV-ND28PHS/D-T	GMV-ND32PHS/D-T	GMV-ND36PHS/D-T
Capacity	Cooling	kW	2.2	2.5	2.8	3.2	3.6
	Heating	kW	2.5	2.8	3.2	3.6	4.0
Power supply		V/Ph/Hz	220-240V~ 50Hz & 208-230V~ 60Hz				
Power consumption		W	50	50	50	50	50
Airflow volume(H/M/L)		m^3/h	550/480/400	550/480/400	550/480/400	600/500/420	600/500/420
Rated current	Cooling	A	0.4	0.4	0.4	0.4	0.4
	Heating	A	0.4	0.4	0.4	0.4	0.4
ESP		Pa	50/0~80	50/0~80	50/0~80	50/0~80	50/0~80
Sound pressure level(H/M/L)		dB(A)	35/31/29	35/31/29	35/31/29	36/33/30	36/33/30
Connecting pipe	Liquid	mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35
	Gas	mm	Φ9.52	Φ9.52	Φ9.52	Φ12.70	Φ12.70
Drain pipe	External dia.	mm	Φ25	Φ25	Φ25	Φ25	Φ25
	Thickness	mm	2.5	2.5	2.5	2.5	2.5
Dimension (W×D×H)	Outline	mm	700×700×300	700×700×300	700×700×300	700×700×300	700×700×300
	Package	mm	897×808×360	897×808×360	897×808×360	897×808×360	897×808×360
Net weight / Gross weight		kg	30.5/36	30.5/36	30.5/36	30.5/36	30.5/36
Loading quantity	40'GP	unit	168	168	168	168	168
	40'HQ	unit	196	196	196	196	196

Model			GMV-ND40PHS/D-T	GMV-ND45PHS/D-T	GMV-ND50PHS/D-T	GMV-ND56PHS/D-T	GMV-ND63PHS/D-T
Capacity	Cooling	kW	4.0	4.5	5.0	5.6	6.3
	Heating	kW	4.5	5.0	5.6	6.3	7.1
Power supply		V/Ph/Hz	220-240V~ 50Hz & 208-230V~ 60Hz				
Power consumption		W	100	100	100	105	105
Airflow volume(H/M/L)		m^3/h	850/700/600	850/700/600	850/700/600	1000/800/700	1000/800/700
Rated Current	Cooling	A	0.8	0.8	0.8	0.8	0.8
	Heating	A	0.8	0.8	0.8	0.8	0.8
ESP		Pa	50/0~80	50/0~80	50/0~80	90/0~200	90/0~200
Sound pressure level(H/M/L)		dB(A)	40/36/32	40/36/32	40/36/32	40/36/32	40/36/32
Connecting pipe	Liquid	mm	Φ6.35	Φ6.35	Φ6.35	Φ9.52	Φ9.52
	Gas	mm	Φ12.7	Φ12.7	Φ12.7	Φ15.9	Φ15.9
Drain pipe	External dia.	mm	Φ25	Φ25	Φ25	Φ25	Φ25
	Thickness	mm	2.5	2.5	2.5	2.5	2.5
Dimension (W×D×H)	Outline	mm	700×700×300	700×700×300	700×700×300	1000×700×300	1000×700×300
	Package	mm	897×808×360	897×808×360	897×808×360	1205×813×360	1205×813×360
Net weight/Gross weight		kg	31.5/37.0	31.5/37.0	31.5/37.0	40.5/46.5	40.5/46.5
Loading quantity	40'GP	unit	168	168	168	138	138
	40'HQ	unit	196	196	196	161	161

Model			GMV-ND71PHS/D-T	GMV-ND80PHS/D-T	GMV-ND90PHS/D-T	GMV-ND100PHS/D-T	GMV-ND112PHS/D-T
Capacity	Cooling	kW	7.1	8.0	9.0	10.0	11.2
	Heating	kW	8.0	9.0	10.0	11.2	12.5
Power supply		V/Ph/Hz	220-240V~ 50Hz & 208-230V~ 60Hz				
Power consumption		W	110	110	170	170	170
Airflow volume(H/M/L)		m^3/h	1250/1050/950	1250/1050/950	1800/1450/1250	1800/1450/1250	2000/1600/1400
Rated current	Cooling	A	0.9	0.9	1.4	1.4	1.4
	Heating	A	0.9	0.9	1.4	1.4	1.4
ESP		Pa	90/0~200	90/0~200	90/0~200	90/0~200	90/0~200
Sound pressure level(H/M/L)		dB(A)	40/36/32	40/36/32	42/38/34	42/38/34	43/39/36
Connecting pipe	Liquid	mm	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52
	Gas	mm	Φ15.9	Φ15.9	Φ15.9	Φ15.9	Φ15.9
Drain pipe	External dia.	mm	Φ25	Φ25	Φ25	Φ25	Φ25
	Thickness	mm	2.5	2.5	2.5	2.5	2.5
Dimension (W × D × H)	Outline	mm	1000 × 700 × 300	1000 × 700 × 300	1400 × 700 × 300	1400 × 700 × 300	1400 × 700 × 300
	Package	mm	1205 × 813 × 360	1205 × 813 × 360	1601 × 813 × 365	1601 × 813 × 365	1601 × 813 × 365
Net weight / Gross weight		kg	41/47	41/47	54/61	54/61	54/61
Loading quantity	40'GP	unit	138	138	84	84	84
	40'HQ	unit	161	161	98	98	98

Model			GMV-ND125PHS/D-T	GMV-ND140PHS/D-T	GMV-ND160PHS/D-T	GMV-ND180PHS/D-T
Capacity	Cooling	kW	12.5	14.0	16.0	18.0
	Heating	kW	14.0	16.0	18.0	20.0
Power supply		V/Ph/Hz	220-240V~ 50Hz & 208-230V~ 60Hz			
Power consumption		W	170	240	240	350
Airflow volume(H/M/L)		m^3/h	2000/1600/1400	2350/1900/1650	2500/2000/1750	3000/2600/2000
Rated current	Cooling	A	1.4	1.8	1.8	2.0
	Heating	A	1.4	1.8	1.8	2.0
ESP		Pa	90/0~200	90/0~200	90/0~200	90/0-170
Sound pressure level(H/M/L)		dB(A)	44/40/37	44/41/38	45/43/40	49/47/44
Connecting pipe	Liquid	mm	Φ9.52	Φ9.52	Φ9.52	Φ9.52
	Gas	mm	Φ15.9	Φ15.9	Φ19.05	Φ19.05
Drain pipe	External dia.	mm	Φ25	Φ25	Φ25	Φ25
	Thickness	mm	2.5	2.5	2.5	2.5
Dimension (W × D × H)	Outline	mm	1400 × 700 × 300	1400 × 700 × 300	1400 × 700 × 300	1400 × 700 × 300
	Package	mm	1601 × 813 × 365	1601 × 813 × 365	1601 × 813 × 365	1678 × 808 × 365
Net weight / Gross weight		kg	54.0/61.0	54.5/61.5	54.5/61.5	58.0/67.0
Loading quantity	40'GP	unit	84	84	84	84
	40'HQ	unit	98	98	98	98

Low Static Pressure Duct Type Indoor Unit

Model			GMV-ND18PLS/C1-T	GMV-ND22PLS/C1-T	GMV-ND25PLS/C1-T	GMV-ND28PLS/C1-T	GMV-ND32PLS/C1-T
Capacity	Cooling	kW	1.80	2.20	2.50	2.80	3.20
	Heating	kW	2.20	2.50	2.80	3.20	3.60
Power supply		V/Ph/Hz	220-240V~ 50Hz & 208-230V~ 60Hz				
Power consumption		W	28	28	28	28	37
Airflow volume(H/M/L)		m^3/h	450/350/200	450/350/200	450/350/200	450/350/200	550/400/300
Rated Current	Cooling	A	0.2	0.2	0.2	0.2	0.3
	Heating	A	0.2	0.2	0.2	0.2	0.3
ESP		Pa	15/0 ~30	15/0 ~30	15/0 ~30	15/0 ~30	15/0 ~30
Sound pressure level (H/M/L)		dB(A)	30/25/22	30/25/22	30/25/22	30/25/22	31/27/25
Connecting pipe	Liquid	mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35
	Gas	mm	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ12.70
Drain pipe	External dia.	mm	25	25	25	25	25
	Thickness	mm	2.5	2.5	2.5	2.5	2.5
Dimension (W × D × H)	Outline	mm	710 × 462 × 200	710 × 462 × 200	710 × 462 × 200	710 × 462 × 200	710 × 462 × 200
	Package	mm	1008 × 568 × 275	1008 × 568 × 275	1008 × 568 × 275	1008 × 568 × 275	1008 × 568 × 275
Net weight/Gross weight		kg	18.5/23.5	18.5/23.5	18.5/23.5	18.5/23.5	19/24
Loading quantity	40'GP	unit	386	386	386	386	386
	40'HQ	unit	430	430	430	430	430

Model			GMV-ND36PLS/C1-T	GMV-ND40PLS/C1-T	GMV-ND45PLS/C1-T	GMV-ND50PLS/C1-T	GMV-ND56PLS/C1-T
Capacity	Cooling	kW	3.60	4.00	4.50	5.00	5.60
	Heating	kW	4.00	4.50	5.00	5.60	6.30
Power supply		V/Ph/Hz	220-240V~ 50Hz & 208-230V~ 60Hz				
Power consumption		W	37	40	40	40	55
Airflow volume(H/M/L)		m^3/h	550/400/300	750/550/400	750/550/400	750/550/400	850/700/550
Rated Current	Cooling	A	0.3	0.3	0.3	0.3	0.4
	Heating	A	0.3	0.3	0.3	0.3	0.4
ESP		Pa	15/0 ~30	15/0 ~30	15/0 ~30	15/0~30	15/0~30
Sound pressure level (H/M/L)		dB(A)	31/27/25	33/29/27	33/29/27	33/29/27	35/31/29
Connecting pipe	Liquid	mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ9.52
	Gas	mm	Φ12.7	Φ12.7	Φ12.7	Φ12.7	Φ15.9
Drain pipe	External dia.	mm	25	25	25	25	25
	Thickness	mm	2.5	2.5	2.5	2.5	2.5
Dimension (W × D × H)	Package	mm	710 × 462 × 200	1010 × 462 × 200	1010 × 462 × 200	1010 × 462 × 200	1010 × 462 × 200
	Outline	mm	1008 × 568 × 275	1308 × 568 × 275	1308 × 568 × 275	1308 × 568 × 275	1308 × 568 × 275
Net weight/Gross weight		kg	19/24	24/30	24/30	24/30	25/31
Loading quantity	40'GP	unit	386	288	288	288	288
	40'HQ	unit	430	340	340	340	340

Model			GMV-ND63PLS/C1-T	GMV-ND71PLS/C1-T	GMV-ND80PLS/C1-T
Capacity	Cooling	kW	6.30	7.10	8.00
	Heating	kW	7.10	8.00	9.00
Power supply		V/Ph/Hz	220-240V~ 50Hz & 208-230V~ 60Hz		
Power consumption		W	55	55	95
Airflow volume(H/M/L)		m^3/h	850/700/550	1100/850/650	1200/950/700
Rated Current	Cooling	A	0.4	0.5	0.8
	Heating	A	0.4	0.5	0.7
ESP		Pa	15/0~30	15/0~30	15/0~30
Sound pressure level(H/M/L)		dB(A)	35/31/29	37/32/30	40/35/31
Connecting pipe	Liquid	mm	Φ 9.52	Φ9.52	Φ9.52
	Gas	mm	Φ15.9	Φ15.9	Φ15.9
Drain pipe	External dia.	mm	25	25	25
	Thickness	mm	2.5	2.5	2.5
Dimension (W×D×H)	Outline	mm	1010×462×200	1310×462×200	1310×462×200
	Package	mm	1308×568×275	1608×568×275	1608×568×275
Net weight/Gross weight		kg	25/31	31/37.5	31/37.5
Loading quantity	40'GP	unit	288	229	229
	40'HQ	unit	340	257	257

Medium Static Pressure Duct Type Indoor Unit

Model			GMV-ND56PMS/A1-T	GMV-ND63PMS/A1-T	GMV-ND71PMS/A1-T	GMV-ND80PMS/A1-T	GMV-ND90PMS/A1-T	GMV-ND100PMS/A1-T	GMV-ND112PMS/A1-T	GMV-ND125PMS/A1-T	GMV-ND140PMS/A1-T
Capacity	Cooling	kW	5.6	6.3	7.1	8.0	9.0	10.0	11.2	12.5	14.0
	Heating	kW	6.3	7.1	8.0	9.0	10.0	11.2	12.5	14.0	16.0
Power supply		V/Ph/Hz	220-240V ~50Hz & 208-230V ~60Hz								
Power consumption		W	95	95	95	100	120	120	120	170	170
Airflow volume(H/M/L)		m^3/h	1100/900/700	1100/900/700	1100/900/700	1100/900/700	1700/1500/1100	1700/1500/1100	1700/1500/1100	2000/1700/1400	2000/1700/1400
Rated Curren	Cooling	A	0.72	0.72	0.72	0.75	0.85	0.85	0.85	1.20	1.20
	Heating	A	0.72	0.72	0.72	0.75	0.85	0.85	0.85	1.20	1.20
ESP		Pa	50/0~80	50/0~80	50/0~80	50/0~80	50/0~80	50/0~80	50/0~80	50/0~80	50/0~80
Sound pressure level(H/M/L)		dB(A)	37/34/31	37/34/31	37/34/31	37/34/31	40/36/32	40/36/32	40/36/32	42/40/37	42/40/37
Connecting	Liquid	mm	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52
	Gas	mm	Φ15.9	Φ15.9	Φ15.9	Φ15.9	Φ15.9	Φ15.9	Φ15.9	Φ15.9	Φ15.9
Drain pipe	External dia.	mm	Φ25	Φ25	Φ25	Φ25	Φ25	Φ25	Φ25	Φ25	Φ25
	Thickness	mm	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
Dimension (W×D×H)	Outline	mm	900×655×260	900×655×260	900×655×260	900×655×260	1340×655×260	1340×655×260	1340×655×260	1340×655×260	1340×655×260
	Package	mm	1115×772×320	1115×772×320	1115×772×320	1115×772×320	1568×770×323	1568×770×323	1568×770×323	1568×770×323	1568×770×323
Net weight/Gross weigh		kg	29.5/34.0	29.5/34.0	29.5/34.0	30.0/34.5	43.5/50.0	43.5/50.0	43.5/50.0	43.5/50.0	43.5/50.0
Loading quantity	40'GP	unit	224	224	224	224	154	154	154	154	154
	40'HQ	unit	256	256	256	256	176	176	176	176	176

360° Air Discharge Cassette Indoor Unit

Model				GMV-ND22T/C-T	GMV-ND28T/C-T	GMV-ND36T/C-T	GMV-ND45T/C-T	GMV-ND50T/C-T
Capacity		Cooling	kW	2.2	2.8	3.6	4.5	5.0
		Heating	kW	2.5	3.2	4.0	5.0	5.6
Power supply			V/Ph/Hz	220-240V~ 50Hz & 208-230V~ 60Hz				
Power consumption			W	26	26	26	26	28
Airflow volume(H/M/L)			m^3/h	800/700/600	800/700/600	800/700/600	800/700/600	900/800/700
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)	33/30/28	33/30/28	33/30/28	34/30/28	35/32/29
Connecting pipe		Liquid	mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35
		Gas	mm	Φ9.52	Φ9.52	Φ12.70	Φ12.70	Φ12.70
Drain pipe		External dia.	mm	Φ25	Φ25	Φ25	Φ25	Φ25
		Thickness	mm	2.5	2.5	2.5	2.5	2.5
Main body	Dimension (W×D×H)	Outline	mm	840×840×240	840×840×240	840×840×240	840×840×240	840×840×240
		Package	mm	963×963×325	963×963×325	963×963×325	963×963×325	963×963×325
	Net weight/Gross weight		kg	27.0/35.0	27.0/35.0	27.0/35.0	27.0/35.0	28.0/36.0
Panel	Model			TF06	TF06	TF06	TF06	TF06
	Dimension (W×D×H)	Outline	mm	950×950×65	950×950×65	950×950×65	950×950×65	950×950×65
		Package	mm	1033×1020×110	1033×1020×110	1033×1020×110	1033×1020×110	1033×1020×110
	Net weight/Gross weight		kg	6.0/9.5	6.0/9.5	6.0/9.5	6.0/9.5	6.0/9.5
Loading quantity		40'GP	unit	126	126	126	126	126
		40'HQ	unit	144	144	144	144	144

Model				GMV-ND56T/C-T	GMV-ND63T/C-T	GMV-ND71T/C-T	GMV-ND80T/C-T	GMV-ND90T/C-T
Capacity		Cooling	kW	5.6	6.3	7.1	8.0	9.0
		Heating	kW	6.3	7.1	8.0	9.0	10.0
Power supply			V/Ph/Hz	220-240V~ 50Hz & 208-230V~ 60Hz				
Power consumption			W	35	60	60	85	85
Airflow volume(H/M/L)			m^3/h	950/850/750	1150/950/850	1150/950/850	1250/1000/900	1250/1000/900
Rated current		Cooling	A	0.2	0.4	0.4	0.4	0.4
		Heating	A	0.2	0.4	0.4	0.4	0.4
Sound pressure level(H/M/L)			dB(A)	37/33/30	37/34/31	37/34/31	39/37/34	39/37/34
Connecting pipe		Liquid	mm	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52
		Gas	mm	Φ15.9	Φ15.9	Φ15.9	Φ15.9	Φ15.9
Drain pipe		External dia.	mm	Φ25	Φ25	Φ25	Φ25	Φ25
		Thickness	mm	2.5	2.5	2.5	2.5	2.5
Main body	Dimension (W×D×H)	Outline	mm	840×840×240	840×840×240	840×840×240	840×840×240	840×840×240
		Package	mm	963×963×325	963×963×325	963×963×325	963×963×325	963×963×325
	Net weight/Gross weight		kg	28.0/36.0	28.0/36.0	28.0/36.0	29.0/37.0	29.0/37.0
Panel	Model			TF06	TF06	TF06	TF06	TF06
	Dimension (W×D×H)	Outline	mm	950×950×65	950×950×65	950×950×65	950×950×65	950×950×65
		Package	mm	1033×1020×110	1033×1020×110	1033×1020×110	1033×1020×110	1033×1020×110
	Net weight/Gross weight		kg	6.0/9.5	6.0/9.5	6.0/9.5	6.0/9.5	6.0/9.5
Loading quantity		40'GP	unit	126	126	126	126	126
		40'HQ	unit	144	144	144	144	144

Model				GMV-ND100T/C-T	GMV-ND112T/C-T	GMV-ND125T/C-T	GMV-ND140T/C-T	GMV-ND160T/C-T
Capacity		Cooling	kW	10.0	11.2	12.5	14.0	16.0
		Heating	kW	11.2	12.5	14.0	16.0	18.0
Power supply			V/Ph/Hz	220-240V~ 50Hz & 208-230V~ 60Hz				
Power consumption			W	85	115	115	115	170
Airflow volume(H/M/L)			m^3/h	1250/1000/900	1650/1300/1100	1650/1300/1100	1650/1300/1100	2000/1800/1430
Rated current		Cooling	A	0.4	0.6	0.6	0.6	1.2
		Heating	A	0.4	0.6	0.6	0.6	1.2
Sound pressure level(H/M/L)			dB(A)	39/37/34	43/41/39	43/41/39	43/41/39	51/48/42
Connecting pipe		Liquid	mm	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52
		Gas	mm	Φ15.9	Φ15.9	Φ15.9	Φ15.9	Φ19.05
Drain pipe		External dia.	mm	Φ25	Φ25	Φ25	Φ25	Φ25
		Thickness	mm	2.5	2.5	2.5	2.5	2.5
Main body	Dimension (W×D×H)	Outline	mm	840×840×240	840×840×290	840×840×290	840×840×290	840×840×290
		Package	mm	963×963×325	963×963×379	963×963×379	963×963×379	963×963×379
	Net weight/Gross weight		kg	29.0/37.0	33.0/42.0	33.0/42.0	33.0/42.0	36.0/44.0
Panel	Model			TF06	TF06	TF06	TF06	TF06
	Dimension (W×D×H)	Outline	mm	950×950×65	950×950×65	950×950×65	950×950×65	950×950×65
		Package	mm	1033×1020×110	1033×1020×110	1033×1020×110	1033×1020×110	1033×1020×110
	Net weight/Gross weight		kg	6.0/9.5	6.0/9.5	6.0/9.5	6.0/9.5	6.0/9.5
Loading quantity		40'GP	unit	126	113	113	113	113
		40'HQ	unit	144	124	124	124	124

Model				GMV-ND22T/D1-T	GMV-ND28T/D1-T	GMV-ND36T/D1-T	GMV-ND45T/D1-T	GMV-ND50T/D1-T
Capacity		Cooling	kW	2.2	2.8	3.6	4.5	5.0
		Heating	kW	2.5	3.2	4.0	5.0	5.6
Power supply			V/Ph/Hz	220-240V~ 50Hz & 208-230V~ 60Hz				
Power consumption			W	40	40	40	50	50
Airflow volume(H/M/L)			m^3/h	800/700/600	800/700/600	800/700/600	900/800/700	900/800/700
Rated current		Cooling	A	0.35	0.35	0.35	0.44	0.44
		Heating	A	0.35	0.35	0.35	0.44	0.44
Sound pressure level(H/M/L)			dB(A)	32/29/27	32/29/27	32/29/27	35/30/27	35/30/27
Connecting pipe		Liquid	mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35
		Gas	mm	Φ9.52	Φ9.52	Φ12.70	Φ12.70	Φ12.70
Drain pipe		External dia.	mm	Φ25	Φ25	Φ25	Φ25	Φ25
		Thickness	mm	2.5	2.5	2.5	2.5	2.5
Main body	Dimension (W × D × H)	Outline	mm	840 × 840 × 200	840 × 840 × 200	840 × 840 × 200	840 × 840 × 200	840 × 840 × 200
		Package	mm	933 × 933 × 255	933 × 933 × 255	933 × 933 × 255	933 × 933 × 255	933 × 933 × 255
	Net weight/Gross weight		kg	19/23	19/23	19/23	19/23	19/23
Panel	Dimension (W × D × H)	Outline	mm	950 × 950 × 65	950 × 950 × 65	950 × 950 × 65	950 × 950 × 65	950 × 950 × 65
		Package	mm	1033 × 1020 × 110	1033 × 1020 × 110	1033 × 1020 × 110	1033 × 1020 × 110	1033 × 1020 × 110
	Net weight/Gross weight		kg	6.0/9.5	6.0/9.5	6.0/9.5	6.0/9.5	6.0/9.5
Loading quantity		40'GP	unit	152	152	152	152	152
		40'HQ	unit	169	169	169	169	169

Model				GMV-ND56T/D1-T	GMV-ND63T/D1-T	GMV-ND71T/D1-T	GMV-ND80T/D1-T	GMV-ND90T/D1-T
Capacity		Cooling	kW	5.6	6.3	7.1	8.0	9.0
		Heating	kW	6.3	7.1	8.0	9.0	10.0
Power supply			V/Ph/Hz	220-240V~ 50Hz & 208-230V~ 60Hz				
Power consumption			W	60	60	60	75	75
Airflow volume(H/M/L)			m^3/h	1100/935/850	1100/935/850	1100/935/850	1400/1000/900	1400/1000/900
Rated current		Cooling	A	0.49	0.49	0.49	0.60	0.60
		Heating	A	0.49	0.49	0.49	0.60	0.60
Sound pressure level(H/M/L)			dB(A)	37/35/32	37/35/32	37/35/32	40/36/31	40/36/31
Connecting pipe		Liquid	mm	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52
		Gas	mm	Φ15.9	Φ15.9	Φ15.9	Φ15.9	Φ15.9
Drain pipe		External dia.	mm	Φ25	Φ25	Φ25	Φ25	Φ25
		Thickness	mm	2.5	2.5	2.5	2.5	2.5
Main body	Dimension (W × D × H)	Outline	mm	840 × 840 × 200	840 × 840 × 200	840 × 840 × 200	840 × 840 × 240	840 × 840 × 240
		Package	mm	933 × 933 × 255	933 × 933 × 255	933 × 933 × 255	933 × 933 × 292	933 × 933 × 292
	Net weight/Gross weight		kg	21/25	21/25	21/25	22.5/27.5	22.5/27.5
Panel	Dimension (W × D × H)	Outline	mm	950 × 950 × 65	950 × 950 × 65	950 × 950 × 65	950 × 950 × 65	950 × 950 × 65
		Package	mm	1033 × 1020 × 110	1033 × 1020 × 110	1033 × 1020 × 110	1033 × 1020 × 110	1033 × 1020 × 110
	Net weight/Gross weight		kg	6.0/9.5	6.0/9.5	6.0/9.5	6.0/9.5	6.0/9.5
Loading quantity		40'GP	unit	152	152	152	139	139
		40'HQ	unit	169	169	169	157	157

Model				GMV-ND100T/D1-T	GMV-ND112T/D1-T	GMV-ND125T/D1-T	GMV-ND140T/D1-T
Capacity		Cooling	kW	10.0	11.2	12.5	14.0
		Heating	kW	11.2	12.5	14.0	16.0
Power supply			V/Ph/Hz	220-240V~ 50Hz & 208-230V~ 60Hz			
Power consumption			W	100	100	160	160
Airflow volume(H/M/L)			m^3/h	1550/1200/1000	1550/1200/1000	1800/1450/1150	1800/1450/1150
Rated current		Cooling	A	0.76	0.76	0.85	0.85
		Heating	A	0.76	0.76	0.85	0.85
Sound pressure level(H/M/L)			dB(A)	43/39/35	43/39/35	46/41/35	46/41/35
Connecting pipe		Liquid	mm	Φ9.52	Φ9.52	Φ9.52	Φ9.52
		Gas	mm	Φ15.9	Φ15.9	Φ15.9	Φ15.9
Drain pipe		External dia.	mm	Φ25	Φ25	Φ25	Φ25
		Thickness	mm	2.5	2.5	2.5	2.5
Main body	Dimension (W × D × H)	Outline	mm	840 × 840 × 240	840 × 840 × 240	840 × 840 × 290	840 × 840 × 290
		Package	mm	933 × 933 × 292	933 × 933 × 292	933 × 933 × 345	933 × 933 × 345
	Net weight/Gross weight		kg	22.5/27.5	22.5/27.5	25/30.5	25/30.5
Panel	Dimension (W × D × H)	Outline	mm	950 × 950 × 65	950 × 950 × 65	950 × 950 × 65	950 × 950 × 65
		Package	mm	1033 × 1020 × 110	1033 × 1020 × 110	1033 × 1020 × 110	1033 × 1020 × 110
	Net weight/Gross weight		kg	6.0/9.5	6.0/9.5	6.0/9.5	6.0/9.5
Loading quantity		40'GP	unit	139	139	117	117
		40'HQ	unit	157	157	135	135

360° Air Discharge Compact Cassette Indoor Unit

Model				GMV-ND15T/E-T	GMV-ND18T/E-T	GMV-ND22T/E-T	GMV-ND28T/E-T
Capacity		Cooling	kW	1.5	1.8	2.2	2.8
		Heating	kW	1.8	2.2	2.5	3.2
Power supply			V/Ph/Hz	220-240V~ 50Hz & 208-230V~ 60Hz			
Power consumption			W	30	30	30	30
Airflow volume(H/M/L)			m^3/h	460/420/370	460/420/370	500/460/370	570/480/420
Rated current		Cooling	A	0.15	0.15	0.15	0.15
		Heating	A	0.15	0.15	0.15	0.15
Sound pressure level(H/M/L)			dB(A)	33/30/25	33/30/25	36/31/25	36/33/28
Connecting pipe		Liquid	mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35
		Gas	mm	Φ9.52	Φ9.52	Φ9.52	Φ9.52
Drain pipe		External dia.	mm	Φ25	Φ25	Φ25	Φ25
		Thickness	mm	2.5	2.5	2.5	2.5
Main body	Dimension (W × D × H)	Outline	mm	570 × 570 × 265	570 × 570 × 265	570 × 570 × 265	570 × 570 × 265
		Package	mm	698 × 653 × 295	698 × 653 × 295	698 × 653 × 295	698 × 653 × 295
	Net weight/Gross weight		kg	17.5/22.5	17.5/22.5	17.5/22.5	17.5/22.5
Panel	Model			TF05	TF05	TF05	TF05
	Dimension (W × D × H)	Outline	mm	620 × 620 × 47.5	620 × 620 × 47.5	620 × 620 × 47.5	620 × 620 × 47.5
		Package	mm	701 × 701 × 125	701 × 701 × 125	701 × 701 × 125	701 × 701 × 125
	Net weight/Gross weight		kg	3.0/4.5	3.0/4.5	3.0/4.5	3.0/4.5
Loading quantity		40'GP	unit	378	378	378	378
		40'HQ	unit	432	432	432	432

Model				GMV-ND36T/E-T	GMV-ND45T/E-T	GMV-ND50T/E-T	GMV-ND56T/E-T
Capacity		Cooling	kW	3.6	4.5	5.0	5.6
		Heating	kW	4.0	5.0	5.6	6.3
Power supply			V/Ph/Hz	220-240V~ 50Hz & 208-230V~ 60Hz			
Power consumption			W	30	45	45	45
Airflow volume(H/M/L)			m^3/h	620/550/480	730/650/560	730/650/560	730/650/560
Rated current		Cooling	A	0.15	0.23	0.23	0.23
		Heating	A	0.15	0.23	0.23	0.23
Sound pressure level(H/M/L)			dB(A)	39/37/35	43/41/39	43/41/39	43/41/39
Connecting pipe		Liquid	mm	Φ6.35	Φ6.35	Φ6.35	Φ9.52
		Gas	mm	Φ12.7	Φ12.7	Φ12.7	Φ15.9
Drain pipe		External dia.	mm	Φ25	Φ25	Φ25	Φ25
		Thickness	mm	2.5	2.5	2.5	2.5
Main body	Dimension (W × D × H)	Outline	mm	570 × 570 × 265	570 × 570 × 265	570 × 570 × 265	570 × 570 × 265
		Package	mm	698 × 653 × 295	698 × 653 × 295	698 × 653 × 295	698 × 653 × 295
	Net weight/Gross weight		kg	17.5/22.5	17.5/22.5	17.5/22.5	17.5/22.5
Panel	Model			TF05	TF05	TF05	TF05
	Dimension (W × D × H)	Outline	mm	620 × 620 × 47.5	620 × 620 × 47.5	620 × 620 × 47.5	620 × 620 × 47.5
		Package	mm	701 × 701 × 125	701 × 701 × 125	701 × 701 × 125	701 × 701 × 125
	Net weight/Gross weight		kg	3.0/4.5	3.0/4.5	3.0/4.5	3.0/4.5
Loading quantity		40'GP	unit	378	378	378	378
		40'HQ	unit	432	432	432	432

2-way Cassette Indoor Unit

Model				GMV-ND28TS/B-T	GMV-ND36TS/B-T	GMV-ND45TS/B-T	GMV-ND50TS/B-T	GMV-ND56TS/B-T	GMV-ND63TS/B-T	GMV-ND71TS/B-T	GMV-ND80TS/B-T
Capacity	Cooling	kW		2.8	3.6	4.5	5.0	5.6	6.3	7.1	8.0
	Heating	kW		3.2	4.0	5.0	5.6	6.3	7.1	8.0	9.0
Power supply		V/Ph/Hz		220-240V~ 50Hz & 208-230V~ 60Hz							
Power consumption		W		20	20	30	30	30	30	55	55
Airflow volume(H/M/L)		m^3/h		671/616/513	671/616/513	715/616/513	715/616/513	764/709/676	764/709/676	816/745/660	816/745/660
Rated current	Cooling	A		0.25	0.25	0.30	0.30	0.30	0.30	0.49	0.49
	Heating	A		0.25	0.25	0.30	0.30	0.30	0.30	0.49	0.49
Sound pressure level(H/M/L)		dB(A)		33/31/28	33/31/28	35/31/28	35/31/28	37/35/32	37/35/32	39/37/34	39/37/34
Connecting pipe	Liquid	mm		Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ9.52	Φ9.52	Φ9.52	Φ9.52
	Gas	mm		Φ9.52	Φ12.70	Φ12.70	Φ12.70	Φ15.90	Φ15.90	Φ15.90	Φ15.90
Drain pipe	External dia.	mm		Φ25	Φ25	Φ25	Φ25	Φ25	Φ25	Φ25	Φ25
	Thickness	mm		2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
Main body	Dimension (W×D×H)	Outline	mm	790×630×280	790×630×280	790×630×280	790×630×280	790×630×280	790×630×280	790×630×280	790×630×280
		Package	mm	1033×740×365	1033×740×365	1033×740×365	1033×740×365	1033×740×365	1033×740×365	1033×740×365	1033×740×365
	Net weight/Gross weight		kg	25.5/33.0	25.5/33.0	25.5/33.0	25.5/33.0	26.0/33.5	26.0/33.5	26.0/33.5	26.0/33.5
Panel	Model			TE03	TE03	TE03	TE03	TE03	TE03	TE03	TE03
	Dimension (W×D×H)	Outline	mm	1100×710×28	1100×710×28	1100×710×28	1100×710×28	1100×710×28	1100×710×28	1100×710×28	1100×710×28
		Package	mm	1230×843×130	1230×843×130	1230×843×130	1230×843×130	1230×843×130	1230×843×130	1230×843×130	1230×843×130
	Net weight/Gross weight		kg	6.0/10.5	6.0/10.5	6.0/10.5	6.0/10.5	6.0/10.5	6.0/10.5	6.0/10.5	6.0/10.5
Loading quantity	40'GP	unit		144	144	144	144	144	144	144	144
	40'HQ	unit		166	166	166	166	166	166	166	166

Model				GMV-ND90TS/B-T	GMV-ND100TS/B-T	GMV-ND112TS/B-T	GMV-ND125TS/B-T	GMV-ND140TS/B-T	GMV-ND160TS/B-T
Capacity	Cooling	kW		9.0	10.0	11.2	12.5	14.0	16.0
	Heating	kW		10.0	11.2	12.5	14.0	16.0	18.0
Power supply		V/Ph/Hz		220-240V ~50Hz & 208-230V ~60Hz					
Power consumption		W		90	90	90	100	100	110
Airflow volume(H/M/L)		m3/h		1470/1310/1275	1470/1310/1275	1470/1310/1275	1565/1400/1275	1565/1400/1275	1755/1565/1275
Rated current	Cooling	A		0.62	0.62	0.62	0.69	0.69	0.75
	Heating	A		0.62	0.62	0.62	0.69	0.69	0.75
Sound pressure level(H/M/L)		dB(A)		41/39/37	41/39/37	41/39/37	43/41/39	43/41/39	46/43/40
"Connecting pipe "	Liquid	mm		Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52
	Gas	mm		Φ15.9	Φ15.9	Φ15.9	Φ15.9	Φ15.9	Φ19.05
Drain pipe	External dia.	mm		Φ25	Φ25	Φ25	Φ25	Φ25	Φ25
	Thickness	mm		2.5	2.5	2.5	2.5	2.5	2.5
Main body	"Dimension (W×D×H)"	Outline	mm	1350×630×280	1350×630×280	1350×630×280	1350×630×280	1350×630×280	1350×630×280
		Package	mm	1591×740×365	1591×740×365	1591×740×365	1591×740×365	1591×740×365	1591×740×365
	Net weight/Gross weight		kg	40.5/50.5	40.5/50.5	40.5/50.5	40.5/50.5	40.5/50.5	40.5/50.5
Panel	Model			TE04	TE04	TE04	TE04	TE04	TE04
	"Dimension (W×D×H)"	Outline	mm	1660×710×28	1660×710×28	1660×710×28	1660×710×28	1660×710×28	1660×710×28
		Package	mm	1790×843×130	1790×843×130	1790×843×130	1790×843×130	1790×843×130	1790×843×130
	Net weight/Gross weight		kg	9.5/15.5	9.5/15.5	9.5/15.5	9.5/15.5	9.5/15.5	9.5/15.5
Loading quantity	40'GP	unit		96	96	96	96	96	96
	40'HQ	unit		109	109	109	109	109	109

1-way Cassette Indoor Unit

Model				GMV-ND22TD/A-T	GMV-ND28TD/A-T	GMV-ND36TD/A-T	GMV-ND45TD/A-T	GMV-ND50TD/A-T	GMV-ND56TD/A-T
Capacity	Cooling	kW		2.2	2.8	3.6	4.5	5.0	5.6
	Heating	kW		2.5	3.2	4.0	5.0	5.6	6.3
Power supply		V/Ph/Hz		220-240V~ 50Hz & 208-230V~ 60Hz					
Power consumption		W		30	30	30	45	45	45
Airflow volume(H/M/L)		m^3/h		600/500/450	600/500/450	600/500/450	830/600/500	830/600/500	890/667/564
Rated current	Cooling	A		0.2	0.2	0.2	0.3	0.3	0.3
	Heating	A		0.2	0.2	0.2	0.3	0.3	0.3
Sound pressure level(H/M/L)		dB(A)		36/32/28	36/32/28	36/32/28	40/35/30	40/35/30	41/38/35
Connecting pipe	Liquid	mm		Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ9.52
	Gas	mm		Φ9.52	Φ9.52	Φ12.7	Φ12.7	Φ12.7	Φ15.9
Drain pipe	External dia.	mm		Φ25	Φ25	Φ25	Φ25	Φ25	Φ25
	Thickness	mm		2.5	2.5	2.5	2.5	2.5	2.5
Main body	Dimension (W×D×H)	Outline	mm	987×385×178	987×385×178	987×385×178	987×385×178	987×385×178	987×385×178
		Package	mm	1307×501×310	1307×501×310	1307×501×310	1307×501×310	1307×501×310	1307×501×310
	Net weight/Gross weight		kg	20/27	20/27	20/27	21/28.5	21/28.5	21/28.5
Panel	Model			TD01	TD01	TD01	TD01	TD01	TD01
	Dimension (W×D×H)	Outline	mm	1200×460×55	1200×460×55	1200×460×55	1200×460×55	1200×460×55	1200×460×55
		Package	mm	1265×536×121	1265×536×121	1265×536×121	1265×536×121	1265×536×121	1265×536×121
	Net weight/Gross weight		kg	4.2/6	4.2/6	4.2/6	4.2/6	4.2/6	4.2/6
Loading quantity	40'GP	unit		215	215	215	215	215	215
	40'HQ	unit		242	242	242	242	242	242

Model				GMV-ND63TD/B-T	GMV-ND71TD/B-T	GMV-ND80TD/B-T
Capacity	Cooling	kW		6.3	7.1	8.0
	Heating	kW		7.1	8.0	9.0
Power supply		V/Ph/Hz		220-240V~ 50Hz & 208-230V~ 60Hz		
Power consumption		W		57	83	83
Airflow volume(H/M/L))		m^3/h		880/680/600	1000/680/600	1000/680/600
Rated current	Cooling	A		0.55	0.86	0.86
	Heating	A		0.55	0.86	0.86
Sound pressure level(H/M/L)		dB(A)		42/39/36	44/39/36	44/39/36
Connecting pipe	Liquid	mm		Φ9.52	Φ9.52	Φ9.52
	Gas	mm		Φ15.9	Φ15.9	Φ15.9
Drain pipe	External dia.	mm		Φ25	Φ25	Φ25
	Thickness	mm		2.50	2.50	2.50
Main body	Dimension (W×D×H)	Outline	mm	1200×470×200	1200×470×200	1200×470×200
		Package	mm	1438×548×255	1438×548×255	1438×548×255
	Net weight/Gross weight		kg	26/31.5	26/31.5	26/31.5
Panel	Model			TD03	TD03	TD03
	Dimension (W×D×H)	Outline	mm	1350×555×64	1350×555×64	1350×555×64
		Package	mm	1443×648×155	1443×648×155	1443×648×155
	Net weight/Gross weight		kg	7.8/13.5	7.8/13.5	7.8/13.5
Loading quantity	40'GP	unit		170	170	170
	40'HQ	unit		189	189	189

Floor Ceiling Type Indoor Unit

Model			GMV-ND28ZD/B-T	GMV-ND36ZD/B-T	GMV-ND50ZD/B-T	GMV-ND56ZD/B-T	GMV-ND63ZD/B-T	GMV-ND71ZD/B-T
Capacity	Cooling	kW	2.8	3.6	5.0	5.6	6.3	7.1
	Heating	kW	3.2	4.0	5.6	6.3	7.1	8.0
Power supply		V/Ph/Hz	220-240V~ 50Hz & 208-230V~ 60Hz					
Power consumption		W	35	35	55	55	80	80
Airflow volume(H/M/L)		m^3/h	600/500/450	600/500/450	750/650/600	750/650/600	1350/1200/1050	1350/1200/1050
Rated current	Cooling	A	0.2	0.2	0.3	0.3	0.4	0.4
	Heating	A	0.2	0.2	0.3	0.3	0.4	0.4
Sound pressure level(H/M/L)		dB(A)	36/32/29	36/32/29	42/39/36	42/39/36	44/41/38	44/41/38
Connecting pipe	Liquid	mm	Φ6.35	Φ6.35	Φ6.35	Φ9.52	Φ9.52	Φ9.52
	Gas	mm	Φ9.52	Φ12.70	Φ12.70	Φ15.90	Φ15.90	Φ15.90
Drain pipe	External dia.	mm	Φ17	Φ17	Φ17	Φ17	Φ17	Φ17
	Thickness	mm	1.75	1.75	1.75	1.75	1.75	1.75
Dimension (W×D×H)	Outline	mm	870×665×235	870×665×235	870×665×235	870×665×235	1200×665×235	1200×665×235
	Package	mm	973×770×300	973×770×300	973×770×300	973×770×300	1303×770×300	1303×770×300
Net weight/Gross weight		kg	24/29	24/29	25/30	25/30	32/38	32/38
Loading quantity	40'GP	unit	252	252	252	252	189	189
	40'HQ	unit	288	288	288	288	216	216

Model			GMV-ND90ZD/B-T	GMV-ND112ZD/B-T	GMV-ND125ZD/B-T	GMV-ND140ZD/B-T	GMV-ND160ZD/B-T
Capacity	Cooling	kW	9.0	11.2	12.5	14.0	16.0
	Heating	kW	10.0	12.5	14.0	16.0	18.0
Power supply		V/Ph/Hz	220-240V~ 50Hz & 208-230V~ 60Hz				
Power consumption		W	120	120	120	150	175
Airflow volume(H/M/L)		m^3/h	1550/1400/1250	1800/1600/1400	1800/1600/1400	2000/1750/1600	2150/1850/1650
Rated current	Cooling	A	0.7	0.7	0.7	0.8	0.9
	Heating	A	0.7	0.7	0.7	0.8	0.9
Sound pressure level(H/M/L)		dB(A)	47/44/41	47/44/42	47/44/42	49/45/43	52/48/45
Connecting pipe	Liquid	mm	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52
	Gas	mm	Φ15.9	Φ15.9	Φ15.9	Φ15.9	Φ19.05
Drain pipe	External dia.	mm	Φ17	Φ17	Φ17	Φ17	Φ17
	Thickness	mm	1.75	1.75	1.75	1.75	1.75
Dimension (W × D × H)	Outline	mm	1200 × 665 × 235	1570 × 665 × 235	1570 × 665 × 235	1570 × 665 × 235	1570 × 665 × 235
	Package	mm	1303 × 770 × 300	1669 × 770 × 300	1669 × 770 × 300	1669 × 770 × 300	1669 × 770 × 300
Net weight/Gross weight		kg	33/39	41/48	41/48	43/50	43/50
Loading quantity	40'GP	unit	189	147	147	147	147
	40'HQ	unit	216	168	168	168	168

Wall-mounted Type Indoor Unit

Model			GMV-ND15G/B4B-T	GMV-ND18G/B4B-T	GMV-ND22G/B4B-T	GMV-ND28G/B4B-T	GMV-ND36G/B4B-T	GMV-ND45G/B4B-T	GMV-ND50G/B4B-T
Capacity	Cooling	kW	1.5	1.8	2.2	2.8	3.6	4.5	5.0
	Heating	kW	1.8	2.2	2.5	3.2	4.0	5.0	5.6
Power supply		V/Ph/Hz	220-240V~ 50Hz & 208-230V~ 60Hz						
Power consumption		W	20	20	20	20	25	35	35
Airflow volume(H/M/L)		m^3/h	500/440/300	500/440/300	500/440/300	500/440/300	630/460/320	850/580/500	850/580/500
Rated current	Cooling	A	0.10	0.10	0.10	0.10	0.12	0.17	0.17
	Heating	A	0.10	0.10	0.10	0.10	0.12	0.17	0.17
Sound pressure level(H/M/L)		dB(A)	35/33/30	35/33/30	35/33/30	35/33/30	38/35/31	43/40/37	43/40/37
Connecting pipe	Liquid	mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35
	Gas	mm	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ12.70	Φ12.70	Φ12.70
Drain pipe	External dia.	mm	Φ20	Φ20	Φ20	Φ20	Φ20	Φ20	Φ20
	Thickness	mm	1.5	1.5	1.5	1.5	1.5	1.5	1.5
Dimension (W × D × H)	Outline	mm	845 × 209 × 289	845 × 209 × 289	845 × 209 × 289	845 × 209 × 289	845 × 209 × 289	970 × 224 × 300	970 × 224 × 300
	Package	mm	976 × 281 × 379	976 × 281 × 379	976 × 281 × 379	976 × 281 × 379	976 × 281 × 379	1096 × 308 × 395	1096 × 308 × 395
Net weight/Gross weight		kg	10.5/12.5	10.5/12.5	10.5/12.5	10.5/12.5	10.5/12.5	12.5/15.5	12.5/15.5
Loading quantity	40'GP	unit	576	576	576	576	576	448	448
	40'HQ	unit	576	576	576	576	576	512	512

Model			GMV-ND56G/B4B-T	GMV-ND63G/B4B-T	GMV-ND71G/B4B-T	GMV-ND80G/B4B-T	GMV-ND90G/B4B-T	GMV-ND100G/B4B-T
Capacity	Cooling	kW	5.6	6.3	7.1	8.0	9.0	9.5
	Heating	kW	6.3	7.1	7.5	9.0	10.0	10.5
Power supply		V/Ph/Hz	220-240V~ 50Hz & 208-230V~ 60Hz					
Power consumption		W	50	50	65	80	80	100
Airflow volume(H/M/L)		m^3/h	1100/850/650	1100/850/650	1200/850/650	1550/1050/800	1550/1050/800	1650/1100/900
Rated current	Cooling	A	0.24	0.24	0.31	0.41	0.41	0.41
	Heating	A	0.24	0.24	0.31	0.41	0.41	0.41
Sound pressure level(H/M/L)		dB(A)	43/41/37	43/41/37	44/41/37	49/46/40	49/46/40	52/48/40
Connecting pipe	Liquid	mm	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52
	Gas	mm	Φ15.9	Φ15.9	Φ15.9	Φ15.9	Φ15.9	Φ15.9
Drain pipe	External dia.	mm	Φ20	Φ20	Φ20	Φ20	Φ20	Φ20
	Thickness	mm	1.5	1.5	1.5	1.5	1.5	1.5
Dimension (W × D × H)	Outline	mm	1078 × 246 × 325	1078 × 246 × 325	1078 × 246 × 325	1350 × 258 × 326	1350 × 258 × 326	1350 × 258 × 326
	Package	mm	1203 × 338 × 425	1203 × 338 × 425	1203 × 338 × 425	1496 × 357 × 433	1496 × 357 × 433	1496 × 357 × 433
Net weight/Gross weight		kg	16/19	16/19	16/19	20/24	20/24	20/24
Loading quantity	40'GP	unit	282	282	282	228	228	228
	40'HQ	unit	329	329	329	266	266	266

Console Indoor Unit

Model			GMV-ND22C/A-T	GMV-ND28C/A-T	GMV-ND36C/A-T	GMV-ND45C/A-T	GMV-ND50C/A-T
Capacity	Cooling	kW	2.2	2.8	3.6	4.5	5.0
	Heating	kW	2.5	3.2	4.0	5.0	5.5
Power supply		V/Ph/Hz	220-240V~ 50Hz & 208-230V~ 60Hz				
Power consumption		W	15	15	20	40	40
Airflow volume(H/M/L)		m^3/h	400/320/270	400/320/270	480/400/310	680/600/500	680/600/500
Rated current	Cooling	A	0.17	0.17	0.25	0.40	0.40
	Heating	A	0.17	0.17	0.25	0.40	0.40
Sound pressure level(H/M/L)		dB(A)	38/33/27	38/33/27	40/37/32	46/43/39	46/43/39
Connecting pipe	Liquid	mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35
	Gas	mm	Φ9.52	Φ9.52	Φ12.70	Φ12.70	Φ12.70
Drain pipe	External dia.	mm	Φ28	Φ28	Φ28	Φ28	Φ28
	Thickness	mm	1	1	1	1	1
Dimension (W × D × H)	Outline	mm	700 × 215 × 600	700 × 215 × 600	700 × 215 × 600	700 × 215 × 600	700 × 215 × 600
	Package	mm	788 × 283 × 777	788 × 283 × 777	788 × 283 × 777	788 × 283 × 777	788 × 283 × 777
Net weight/Gross weight		kg	16/19	16/19	16/19	16/19	16/19
Loading quantity	40'GP	unit	348	348	348	348	348
	40'HQ	unit	348	348	348	348	348

Floor Standing Type

Model			GMV-ND100L/A-T	GMV-ND140L/A-T
Capacity	Cooling	kW	10.0	14.0
	Heating	kW	11.0	15.0
Power supply		V/Ph/Hz	220-240V~ 50Hz & 208-230V~ 60Hz	
Power consumption		W	200	200
Airflow volume(H/M/L)		m^3/h	1850/1600/1400	1850/1600/1400
Sound pressure level(H/M/L)		dB(A)	50/48/46	50/48/46
Connecting pipe	Liquid	mm	Φ9.52	Φ9.52
	Gas	mm	Φ15.9	Φ15.9
Drain pipe	External dia.	mm	Φ31	Φ31
	Thickness	mm	4.5	4.5
Dimension (W × D × H)	Outline	mm	580 × 400 × 1870	580 × 400 × 1870
	Package	mm	738 × 545 × 2083	738 × 545 × 2083
Net weight/Gross weight		kg	54.0/74.0	57.0/77.0
Loading quantity	40'GP	unit	67	67
	40'HQ	unit	67	67

Concealed Floor Standing Type

Model			GMV-ND22ZA/A-T	GMV-ND28ZA/A-T	GMV-ND36ZA/A-T	GMV-ND45ZA/A-T	GMV-ND56ZA/A-T	GMV-ND63ZA/A-T	GMV-ND71ZA/A-T
Capacity	Cooling	kW	2.2	2.8	3.6	4.5	5.6	6.3	7.1
	Heating	kW	2.5	3.2	4.0	5.0	6.3	7.1	8.0
Power supply		V/Ph/Hz	220-240V~ 50Hz & 208-230V~ 60Hz						
Power consumption		W	35	35	43	45	80	80	90
Airflow volume(H/M/L)		m^3/h	450/350/250	450/350/250	550/450/350	650/500/400	900/750/600	900/750/600	1100/900/700
Rated current	Cooling	A	0.18	0.18	0.22	0.23	0.41	0.41	0.46
	Heating	A	0.18	0.18	0.22	0.23	0.41	0.41	0.46
ESP		Pa	10/0 ~40	10/0 ~ 40	10/0 ~40	15/0 ~60	15/0 ~ 60	15/0 ~ 60	15/0~60
Sound pressure level(H/M/L)		dB(A)	30/28/25	30/28/25	33/31/28	33/31/28	35/33/30	35/33/30	37/35/33
Connecting pipe	Liquid	mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ9.52	Φ9.52	Φ9.52
	Gas	mm	Φ9.52	Φ9.52	Φ12.7	Φ12.7	Φ15.9	Φ15.9	Φ15.9
Drain pipe	External dia.	mm	Φ25	Φ25	Φ25	Φ25	Φ25	Φ25	Φ25
	Thickness	mm	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Dimension (W × D × H)	Outline	mm	700 ×200×615	700× 200 × 615	700× 200 × 615	900× 200 × 615	1100× 200× 615	1100× 200× 615	1100× 200× 615
	Package	mm	893 ×305×743	893× 305× 743	893× 305× 743	1123× 305 × 743	1323× 305× 743	1323× 305× 743	1323× 305× 743
Net weight/Gross weight		kg	23/30	23/30	23/30	27/36	32/41	32/41	32/41
Loading quantity	40'GP	unit	273	273	273	217	175	175	175
	40'HQ	unit	312	312	312	248	200	200	200

AHU-KIT

Model			GMV-N36U/C-T	GMV-N71U/C-T	GMV-N140U/C-T	GMV-N280U/C-T	GMV-N560U/C-T
Defaulted capacity of ex-factory	Capacity		36	71	140	280	560
	Cooling	kW	3.6	7.1	14.0	28.0	56.0
	Heating	kW	4.0	8.0	16.0	31.5	63.0
Adjustable capacity	Capacity		28 36	45 56 71	90 112 140	224 280 335 400 450	504 560 840
	Cooling	kW	2.8 3.6	4.5 5.6 7.1	9.0 11.2 14.0	22.4 28.0 33.5 40.0 45.0	50.4 56.0 84.0
	Heating	kW	3.2 4.0	5.0 6.3 8.0	10.0 12.5 16.0	25.0 31.5 37.5 45.0 50.0	56.5 63.0 94.5
Power input		W	8	8	8	8	8
Power supply		V/Ph/Hz	220-240V ~ 50Hz & 208-230V~ 60Hz				
Size of connection pipe	AHU-KIT (ex-factory pipe size)	mm	Φ6.35 Φ6.35	Φ9.52 Φ9.52 Φ9.52	Φ9.52 Φ9.52 Φ9.52	Φ9.52 Φ9.52 Φ9.52 Φ9.52 Φ9.52	Φ15.90 Φ15.90 Φ15.90
	Air handling unit Liquid pipe	mm	Φ6.35 Φ6.35	Φ6.35 Φ9.52 Φ9.52	Φ9.52 Φ9.52 Φ9.52	Φ9.52 Φ9.52 Φ12.70 Φ12.70 Φ12.70	Φ15.90 Φ15.90 Φ19.05
	Air handling unit Gas pipe	mm	Φ9.52 Φ12.70	Φ12.70 Φ15.90 Φ15.90	Φ15.90 Φ15.90 Φ15.90	Φ19.05 Φ22.20 Φ25.40 Φ25.40 Φ28.60	Φ28.60 Φ28.60 Φ31.80
	Connection method		Brazing Connection				
Outline dimension (W × D × H)	EXV box	mm	203 × 326 × 85	203 × 326 × 85	203 × 326 × 85	203 × 326 × 85	246 × 500 × 120
	Control box	mm	334 × 284 × 111	334 × 284 × 111	334 × 284 × 111	334 × 284 × 111	334 × 284 × 111
Package dimension(W × D × H)		mm	539 × 461 × 247	539 × 461 × 247	539 × 461 × 247	539 × 461 × 247	759 × 645 × 180
Net weight		kg	10.0	10.5	10.5	10.5	13.0
Gross weight		kg	13.0	13.5	13.5	13.5	17.5
Loading	40'GP	unit	990	990	990	990	702
	40'HP	unit	1100	1100	1100	1100	756

Model			GMV-N560U/C-T +GMV-N140U/C-T	GMV-N560U/C-T +GMV-N280U/C-T	GMV-N560U/C-T +GMV-N560U/C-T		GMV-N560U/C-T +GMV-N560U/C-T +GMV-N140U/C-T	GMV-N560U/C-T +GMV-N560U/C-T +GMV-N280U/C-T	GMV-N560U/C-T +GMV-N560U/C-T +GMV-N560U/C-T	
Defaulted capacity of ex-factory	Capacity		840+140	840+280	840+560	840+840	840+840+140	840+840+280	840+840+560	840+840+840
	Cooling	kW	98.0	112.0	140.0	168.0	182.0	196.0	224.0	252.0
	Heating	kW	110.5	126.0	157.5	189.0	204.5	220.5	252.0	283.5
Power input		W	8+8	8+8	8+8		8+8+8	8+8+8	8+8+8	
Power supply		V/Ph/Hz	220-240V~ 50Hz & 208-230V~ 60Hz							
Size of connection pipe	Air handling unit Liquid pipe	mm	Φ19.05	Φ19.05	Φ19.05	Φ19.05	Φ19.05	Φ22.20	Φ22.20	Φ22.20
	Air handling unit Gas pipe	mm	Φ38.1	Φ38.1	Φ41.3	Φ41.3	Φ41.3	Φ44.5	Φ44.5	Φ44.5
	Connection method		Brazing Connection							
Outline dimension (W × D × H)	EXV box	mm	246 × 500 × 120 +203 × 326 × 85	246 × 500 × 120 +203 × 326 × 85	(246 × 500 × 120) × 2		(246 × 500 × 120) × 2 +203 × 326 × 85	(246 × 500 × 120) × 2 +203 × 326 × 85	(246 × 500 × 120) × 3	
	Control box	mm	(334 × 284 × 111) × 2	(334 × 284 × 111) × 2	(334 × 284 × 111) × 2		(334 × 284 × 111) × 3	(334 × 284 × 111) × 3	(334 × 284 × 111) × 3	
Package dimension(W × D × H)		mm	759 × 645 × 180+ 539 × 461 × 247	759 × 645 × 180+ 539 × 461 × 247	(759 × 645 × 180) × 2		(759 × 645 × 180) × 2 +539 × 461 × 247	(759 × 645 × 180) × 2 +539 × 461 × 247	(759 × 645 × 180) × 3	
Net weight		kg	13.0+10.5	13.0+10.5	13.0+13.0		13.0+13.0+10.5	13.0+13.0+10.5	13.0+13.0+10.5	
Gross weight		kg	17.5+13.5	17.5+13.5	17.5+17.5		17.5+17.5+13.5	17.5+17.5+13.5	17.5+17.5+17.5	

Fresh Air Processing Indoor Unit

Model			GMV-NDX125P/A-T	GMV-NDX140P/A-T	GMV-NDX224P/A-T	GMV-NDX250P/A-T	GMV-NDX280P/A-T	GMV-NX450P/A(X4.0)-M
Capacity	Cooling[*1]	kW	12.5	14.0	22.4	25.0	28.0	45.0
	Heating[*2]	kW	8.5	10.0	16.0	18.0	20.0	32.0
	Heating[*3]	kW	10.5	12.0	20.0	20.0	22.0	35.0
Power supply		V/Ph/Hz	220-240V~ 50Hz & 208-230V~60Hz					380-415V 3N~50Hz
Power consumption[*4]		W	200/350	200/350	400/760	520/860	520/860	1240
ESP[*5]		Pa	150/50~200	150/50~200	200/50 ~ 300	200/50 ~ 300	200/50 ~ 300	200
Airflow volume (Default/Range)[*6]		m^3/h	1200/1000~2000	1200/1000~2000	2000/1500~3000	2500/2000~3500	2500/2000~3500	4000
Rated current[*7]	Cooling	A	1.5/2.0	1.5/2.0	2.5/4.3	3.1/4.9	3.1/4.9	3.4
	Heating	A	1.5/2.0	1.5/2.0	2.5/4.3	3.1/4.9	3.1/4.9	3.4
Sound pressure level (Default/Range)[*8]		dB(A)	46/40~50	46/40~50	45/45~54	47/47~54	47/47~54	58
Connecting pipe	Liquid	mm	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ12.70
	Gas	mm	Φ15.9	Φ15.9	Φ19.05	Φ22.2	Φ22.2	Φ28.6
Drain pipe	External dia.	mm	Φ25	Φ25	Φ25	Φ25	Φ25	Φ33
	Thickness	mm	2.5	2.5	2.0	2.0	2.0	3.0
Dimension (W × D × H)	Outline	mm	1400 × 700 × 300	1400 × 700 × 300	1483 × 791 × 385	1483 × 791 × 385	1483 × 791 × 385	1700x1100x650
	Package	mm	1601 × 813 × 365	1601 × 813 × 365	1578 × 883 × 472	1578 × 883 × 472	1578 × 883 × 472	1893x1463x838
Net weight/Gross weight		kg	54/61	54/61	82/104	82/104	82/104	208/266
Loading quantity	40'GP	unit	84	84	52	52	52	16
	40'HQ	unit	98	98	65	65	65	16

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

Control System

Control System Lineup

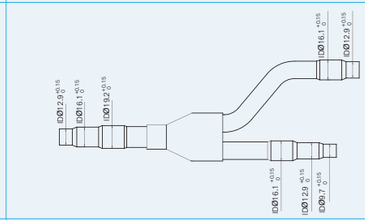
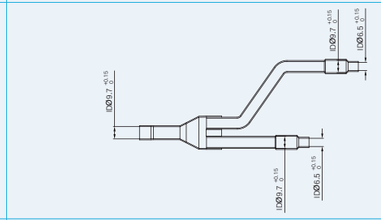
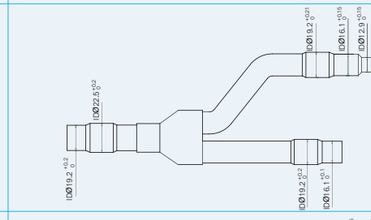
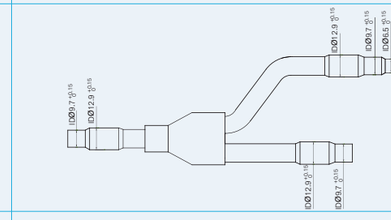
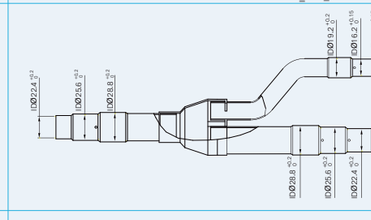
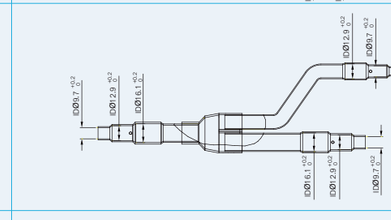
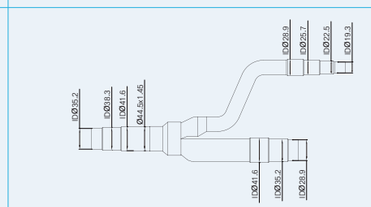
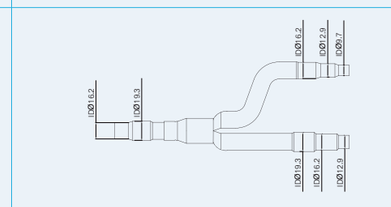
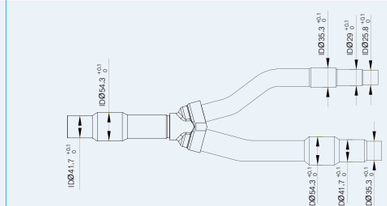
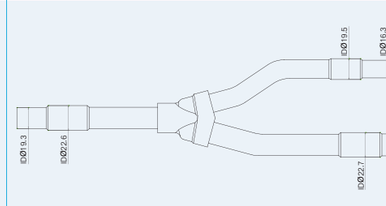
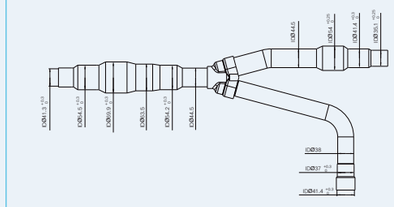
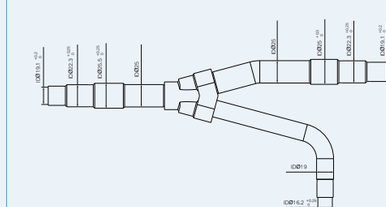
Controlling systems \ Outdoor series				GMV6	GMV6 HR	GMV5 Mini	GMV5 Mini Star	GMV5 Slim	GMV5 Home
Long-distance monitor	Intelligent remote eudemon	ME30-24/DF(B)		○	○	○	○	○	○
		ME20-24/D1(T)							
	Gateway of building protocol	ME30-24/E6(M)		○	○	○	○	○	
		ME30-24/D1(BM)		○	○	○	○	○	○
		ME31-33/EH1(M)		○	○	○	○	○	○
Intellint billing eudemon		FE11-24/D4(B)		○	○	○	○	○	
		ME11-24/D4(B)							
G-Cloud		ME31-00/C3		○	○	○	○	○	
Other modules	Optoelectronic isolated converter	GD02		○	○	○	○	○	
	Optoelectronic isolated signal mutliplier	RS485-W		○	○	○	○	○	

Controlling system \ Indoor series			Cassette type	(High ESP、Low ESP、Slim ducted) Duct type	Fresh air processing	Wall mounted eype	Floor ceiling type	Cassette type	Floor standing type	Concealed floor standing type
Wireless controller	YAP1F		●	○	○	●	●	●	●	○
	YAP1F7		○	○	○	○	○	○	○	○
Wired controller	XK46		○	●/○	●	○	○	○	○	●
	XE7A-24/H		○	●/○	○	○	○	○	○	○
	XE7A-24/HC		○	○	○	○	○	○	○	○
	XE73-24/HC		○	○	○	○	○	○	○	○
	XE70-33/H		○	○	○	○	○	○	○	○
	JS13		○	○	○	○	○	○	○	○
Linkage Controller	LE60-24/H1		○	○	○	○	○	○	○	○
Centralized controller	CE54-24/F(C)		○	○	○	○	○	○	○	○
	CE52-24/F(C)		○	○	○	○	○	○	○	○
	CE58-00/EF(CM)		○	○	○	○	○	○	○	○
Debugger	DE43-00/EF(CM)		○	○	○	○	○	○	○	○

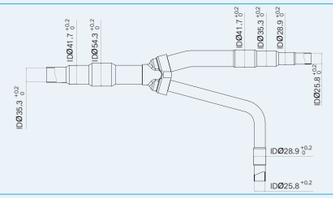
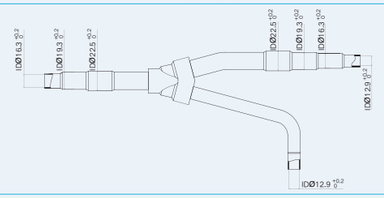
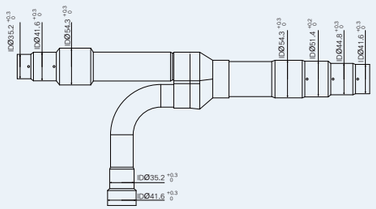
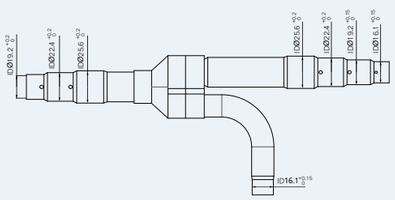
Note ： ● means standard, ○ means optional.
XE73-24/HC is under development. Please confirm the final specifications with the sales personnel.

Branching Joint (For GMV6 and GMV X units)

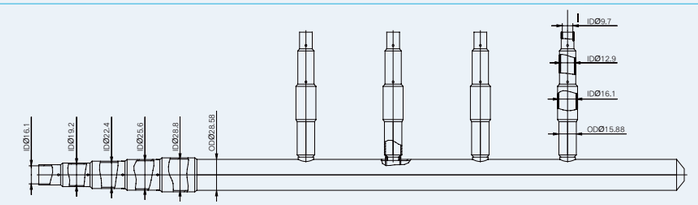
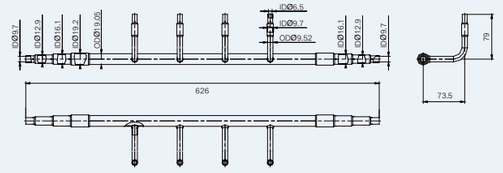
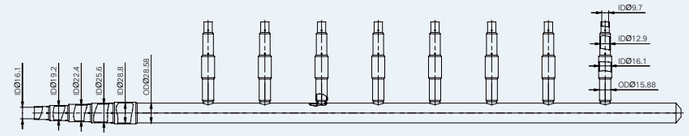
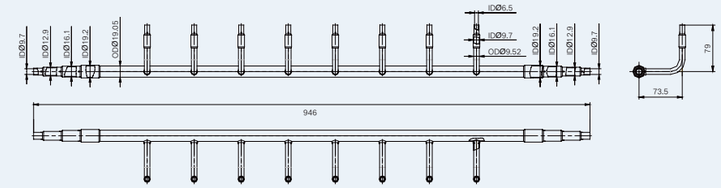
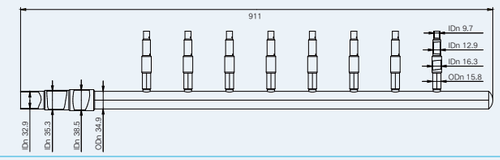
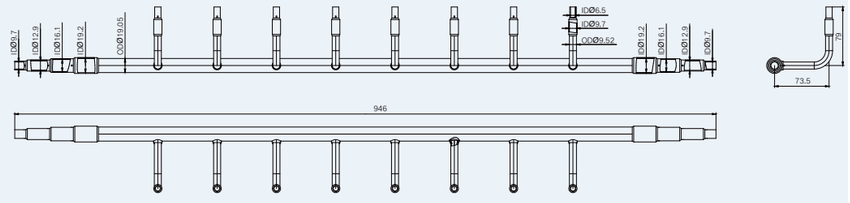
For Indoor & Outdoor Units

Model	Total capacity X(kW)	Appearance	
		Gas pipe	Liquid pipe
FQ01A/A	X < 20		
FQ01B/A	20≤X≤30		
FQ02/A	30 < X≤70		
FQ03/A	70<X≤136		
FQ04/A	136< X ≤ 272		
FQ05/A	X > 272		

For Outdoor Units

Model	Appearance	
	Gas pipe	Liquid pipe
ML01/A		
ML02/A		

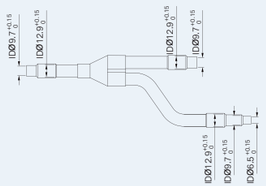
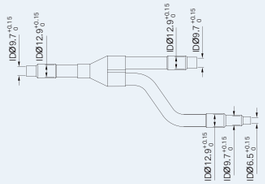
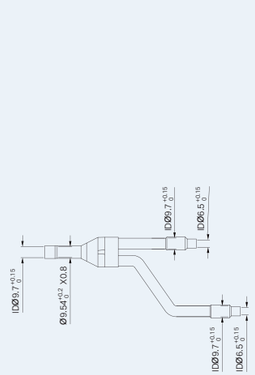
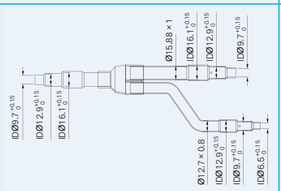
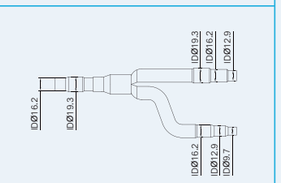
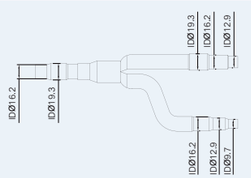
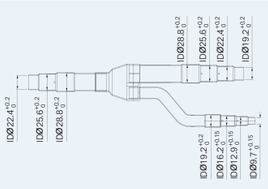
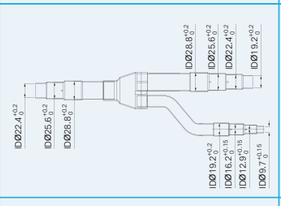
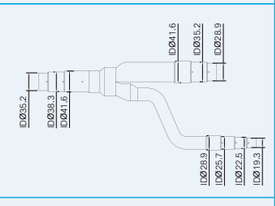
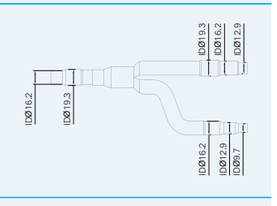
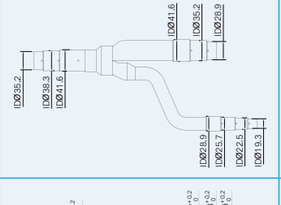
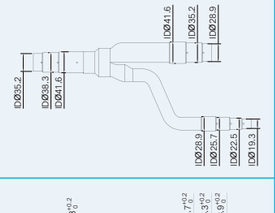
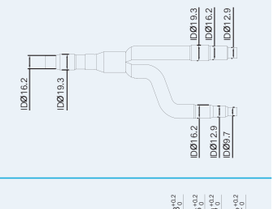
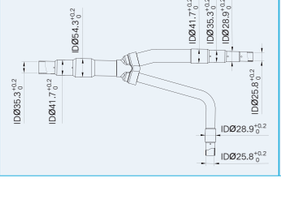
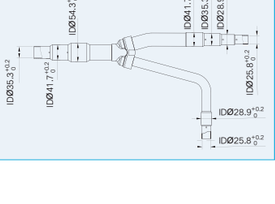
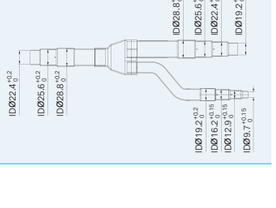
For Indoor Units

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

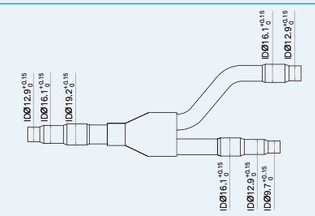
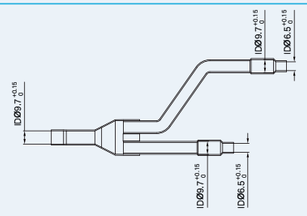
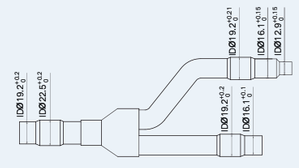
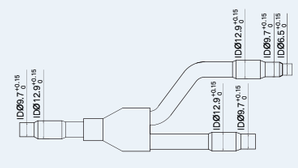
Total rated capacity of downstream indoor units X(kW)	Gas pipe(mm)	Liquid pipe(mm)	Model of manifold pipe
X≤40.0	≤Φ25.4	≤Φ12.70	FQ14/H1
X≤68.0	≤Φ28.6	≤Φ15.90	FQ18/H1
68.0＜X	≥Φ31.8	≥Φ19.05	FQ18/H2

Branching Joint (For GMV6 HR units)

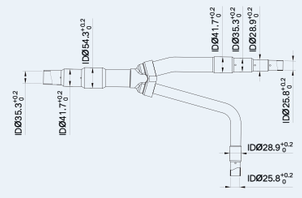
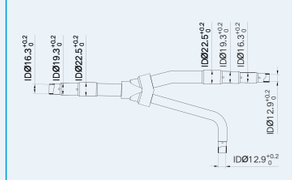
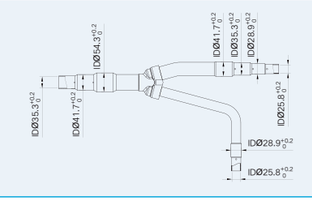
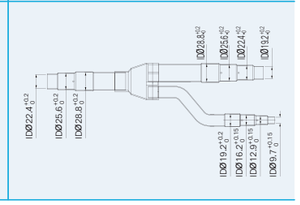
For Outdoor Units and Mode Exchanger

Model	Total capacity of the downstream indoor units X(kW)	Appearance		
		High-pressure gas pipe	Low-pressure gas pipe	Liquid pipe
FQ01Na/A	X≤5.0			
FQ02Na/A	5.0<X≤22.4			
FQ03Na/A	22.4<X≤28.0			
FQ04Na/A	28.0<X≤68			
FQ05Na/A	68<X≤96			
FQ06Na/A	96<X≤135			
FQ07Na/A	135.0<X			

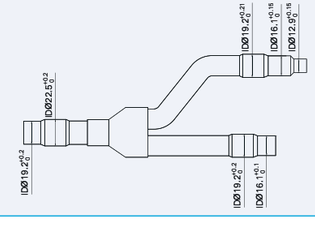
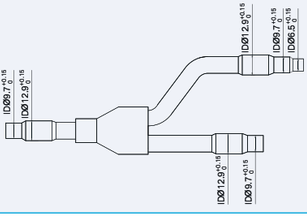
For Indoor & Mode Exchanger

Model	Total capacity of the downstream indoor units X(Kw)	Appearance	
		Gas pipe	Liquid pipe
FQ01A/A	X≤16		
FQ01B/A	16<X≤28.0		

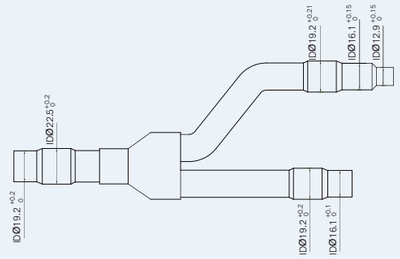
For Outdoor Units

Model	Module's capacity X(kW)	Appearance		
		High-pressure gas pipe	Low-pressure gas pipe	Liquid pipe
ML01R	50.4≤X≤96			
ML02R	96<X			

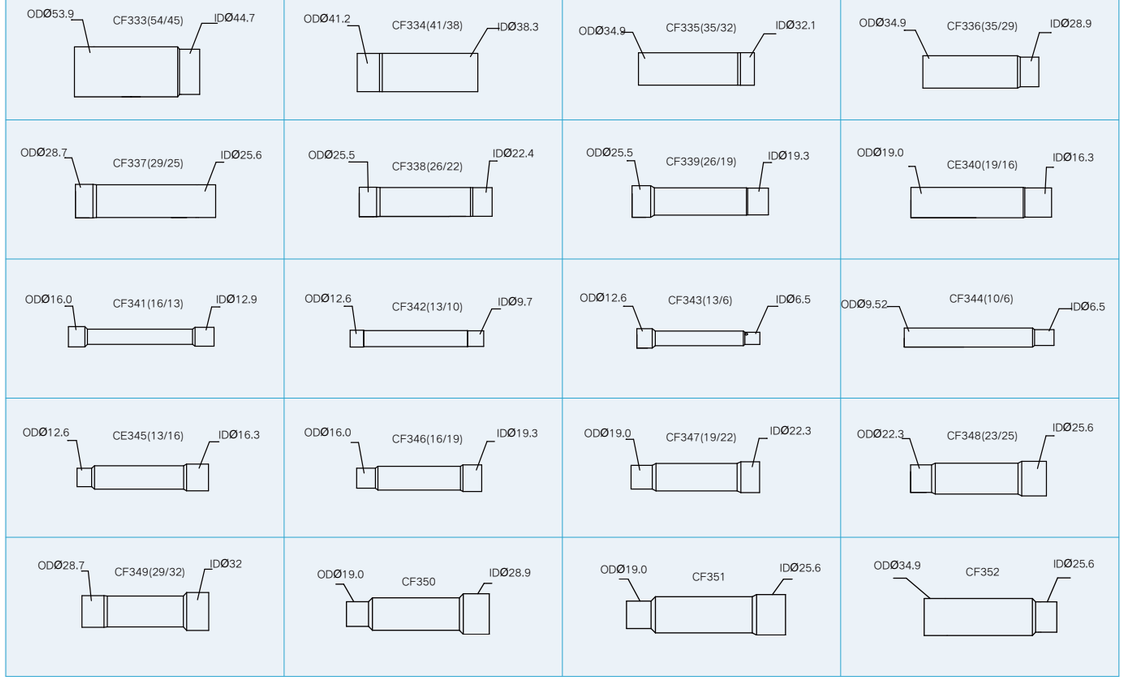
For GMV6 HR Mode Exchanger and Hydro Box

Model	Capacity of the hydro box X(kW)	Appearance	
		Gas pipe	Liquid pipe
FQ01B/A	X=30		

Branching Joint (For AHU KIT)

Model	Appearance Liquid pipe
FQ02U/A	

Reducer/expander pipe dimensions



Note: OD side connects the branch pipe; ID side connects the engineering pipe.

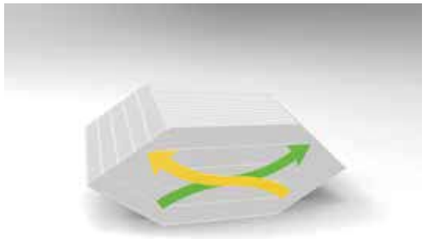
Energy Recovery Ventilation(ERV)

Gree Energy Recovery Ventilation System is designed especially for providing healthy and fresh indoor air, constant air volume and comfortable temperature and humidity with less power consumption. With F7-grade filter, it can effectively remove PM10, PM2.5 and other particles in the air;

Through the total heat exchange core that is made of high-polymer material, the air led from the outside will have efficient heat exchange with the discharged air. Heat exchange efficiency is up to 80%. It is applicable to houses, villas, banks, office buildings and other places with fresh air demand.

Adopts Hexahedral Total Heat Exchange Core

> It adopts hexahedral total heat exchange core, which provides reverse ventilation passage for fresh air and discharged air while preventing the mixture of fresh air and discharged air. Temperature exchange efficiency is 80% at most.



Air Volume Multi-selection Control

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

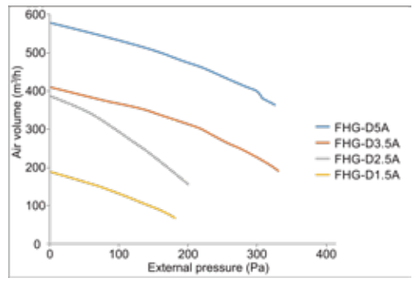
350 m³/h	High
300 m³/h	Medium high
250 m³/h	Medium
200 m³/h	Medium low
150 m³/h	Low

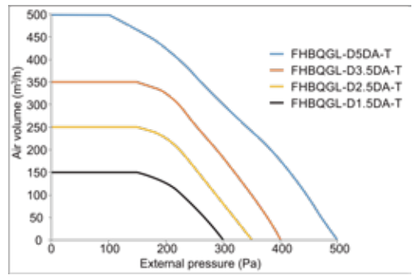
Note: The above air volume data is tested base on model FHBQGL-D3.5DA-T.

Constant Fresh Air Volume

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

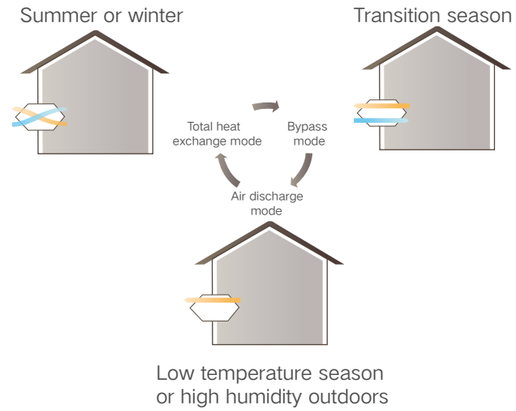
> The right diagram shows the air volume/static pressure curve of common AC motor. We can see that as the static pressure increases (filter gets more dirty), the volume of fresh air is attenuated correspondingly. As the operation goes on and on, fresh air volume may not be able to satisfy the design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





Comfortable Temperature and Humidity

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

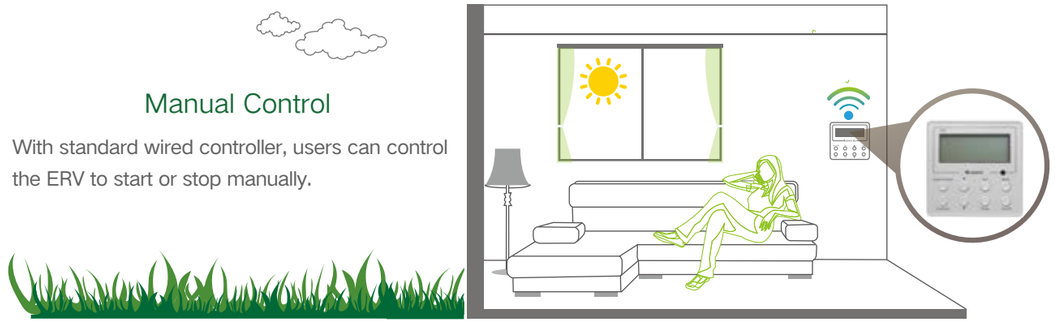


Intelligent Control

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

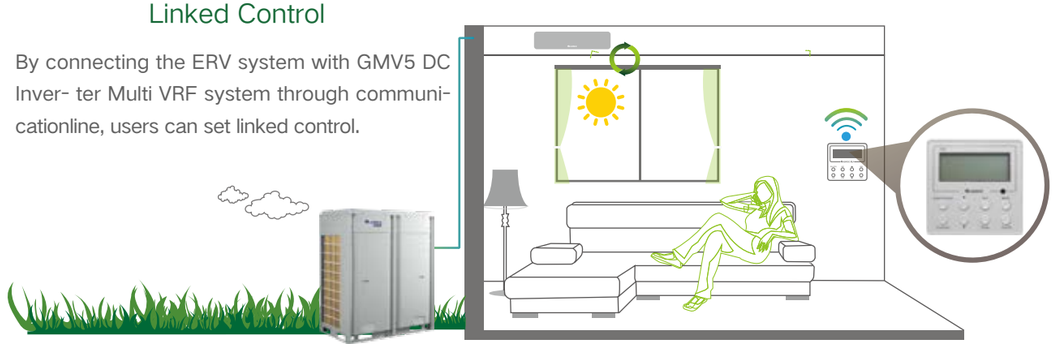
Manual Control

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



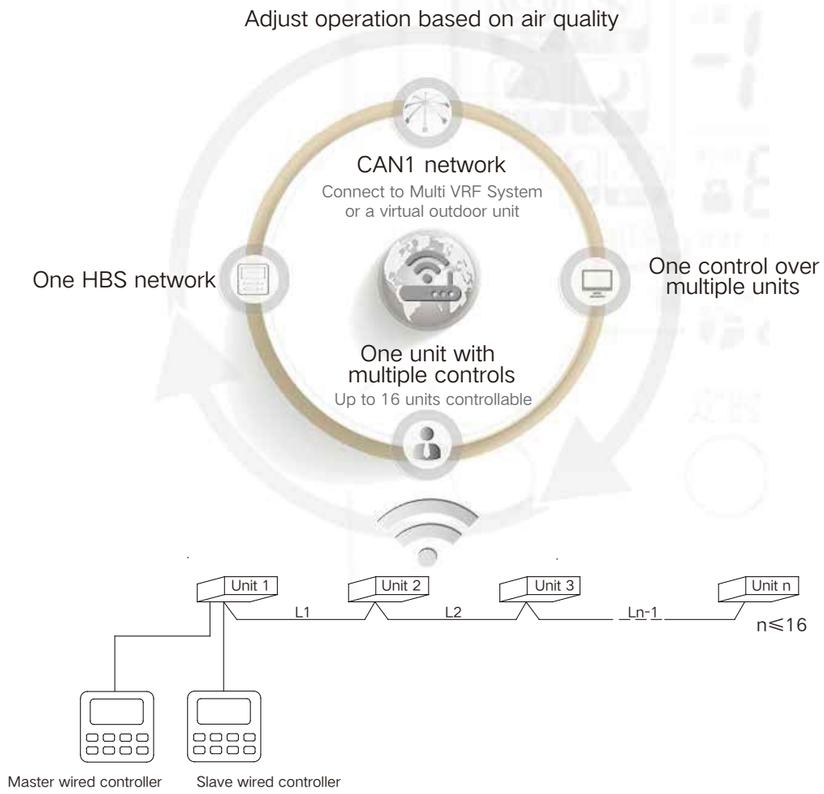
Linked Control

By connecting the ERV system with GMV5 DC Inver- ter Multi VRF system through communicationline, users can set linked control.



“One Unit With Multiple Controls” and “One Control Over Multiple Units”

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



Smart Structural Design

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

Model			FHBQGL-D1.5DA-T	FHBQGL-D2.5DA-T	FHBQGL-D3.5DA-T	FHBQGL-D5DA-T
Air flow volume		m^3/h	150	250	350	500
ESP		Pa	100	100	100	100
Temperature exchange efficiency		%	80	75	76	73
Power supply		V/Ph/Hz	220-240V ~ 50Hz & 208-230V ~ 60Hz	220-240V ~ 50Hz & 208-230V ~ 60Hz	220-240V ~ 50Hz & 208-230V ~ 60Hz	220-240V ~ 50Hz & 208-230V ~ 60Hz
Power input		kW	0.050	0.105	0.155	0.250
Sound power level		dB	43	50	55	57
Dimension (W × D × H)	Outline	mm	1160×700×220	1160×700×220	1200×785×240	1385×785×240
	Package	mm	1468×873×285	1468×873×285	1528×973×305	1711×973×305
Net weight/Gross weight		kg	50.0/58.5	50.0/58.5	60.0/70.5	71.5/82.5
Loading quantity	40'GP/40'HQ	unit	172/195	172/195	121/140	117/131

Control System Lineup

Control system \ Product series			ERV
			
Wired controller	XK112		●
Centralized controller	CE52-24/F(C)		○

Note: ● means standard, ○ means optional.

ERV+DX COIL

INVERTER R410A

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

Memory function

℃/℉ switch

Child lock

Easier maintainability

Weekly timer

Centralized control

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

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

》 Free cooling: When outdoor temperature is lower than the set temperature, units can automatically introduce the fresh outdoor air to make the room cooler.

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

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

》 Cooling and heating functions: With fan coils, they have cooling and heating functions like common air conditioners.

》 Multiple operation modes: Total heat exchange mode: The fresh air side and air discharge side can have heat exchange for efficient energy recovery. By-pass mode: Ventilation without heat exchange. Air discharge mode: Only air discharge side is turned on for ventilation.

CE

Specifications

Model				GMV-VDR5PH/SA-S	GMV-VDR8PH/SA-S	GMV-VDR10PH/SA-S
Rated voltage			V	220-240		
Rated frequency			Hz	50/60		
Cooling capacity			kW	8.5	12.0	14.5
Heating capacity			kW	4.0	10.6	12.0
Power input			kW	0.27	0.44	0.64
Current input			A	1.65	2.73	3.86
Indoor unit	Airflow volume		CFM	294	471	589
			m^3/h	500	800	1000
	ESP	Rated	Pa	150	150	150
	Thermal exchange efficiency		%	73	74	73
	Sound power level		dB	55	59	62
	Dimension (W×D×H)	Outline	mm	1700×880×340	1800×1185×390	1800×1185×390
		Package	mm	1988×1138×535	2110×1440×567	2110×1440×567
	Net weight/Gross weight		kg	120/175	158/225	158/225
Ventiduct	Outer diameter		mm	200	250	250
Loading quantity	20' GP/40' GP/40' HQ		unit	20/44/44	16/32/32	16/32/32
Standard wired controller				XE70-33/H		

AIR TO WATER

Versati IV Monobloc
Versati III (Split Type)
Versati III (All In One)
Versati III (Monobloc Type)
Split Type Water Heater
Integral Type Water Heater
Heat Pump Pool Heater

Versati IV Monobloc

R32

VERSATI, a DC inverter multifunctional air-to-water heat pump with advanced heat pump technology, absorbs natural heat from the ambient air and then releases heat to the room or water. It not only satisfies room heating requirements but also supplies domestic hot water. Besides, VERSATI can also provide you with cool air in hot summer.

Inner groove copper

Quiet function

Weekly timer

Low temperature heating

Key-card control

Comprehensive protection

24 hour timer

Child lock

Wide operation range

Wide voltage range

Self-diagnosis

Low voltage startup

Memory function

Intelligent defrosting

℃ /℉switch

Clock display

Long-distance monitoring

Golden fin condenser

》It adopts a two-stage compressor technology to improve the heating capacity and energy efficiency under low temperature, with A7W35 COP up to 5.4, and average climate SCOP 35℃, A+++.

》It can be combined with a fan coil unit, heat radiator, floor heating and a hot water tank to provide five working modes including cooling, heating and water heating.

》Versati is equipped with a 5-inch high-definition LCD touch screen, which provides 20 languages to suit users of different countries and regions.

》Users can set the relationship between ambient temperautre and room temperature. The targeted room temperature will change accordingly with room load and ambient temperature change so as to bring comfort to users and achieve energy saving.

》Users can set the quiet time, for example, all day long or night time only, to improve the level of comfort.

Item	Water side	Heat source/User side
	Leaving water temperature(℃)	Dry bulb temperature(℃)
Cooling	5~25	-*15~48
Heating	20~65	-25~35
Water heating	40~80	-25~45

Note: When operating conditions are out of the range listed above, please contact Gree.

Model			GRS-CQ4.0Pd/NhG3-E	GRS-CQ6.0Pd/NhG3-E	GRS-CQ8.0Pd/NhG3-E	GRS-CQ10Pd/NhG3-E	GRS-CQ12Pd/NhG3-E	GRS-CQ14Pd/NhG3-E	GRS-CQ16Pd/NhG3-E
Capacity (Floor)	Cooling	kW	5.00	6.50	8.30	10.20	12.00	13.70	15.50
	Heating	kW	5.00	6.00	8.20	10.20	12.00	14.20	15.70
Power input(Floor)	Cooling	kW	0.96	1.28	1.56	2.00	2.45	3.00	3.60
	Heating	kW	0.93	1.11	1.54	2.02	2.43	2.99	3.45
EER(Floor Cooling)		W/W	5.20	5.10	5.32	5.10	4.90	4.57	4.31
COP(Floor Heating)		W/W	5.40	5.40	5.32	5.05	4.94	4.75	4.55
Capacity (FanCoil)	Cooling	kW	4.90	5.70	7.40	9.00	11.10	13.30	13.80
	Heating	kW	4.90	6.80	8.30	10.20	13.00	14.20	16.20
Power input (FanCoil)	Cooling	kW	1.40	1.76	2.00	2.65	3.58	4.75	5.09
	Heating	kW	1.17	1.66	1.90	2.50	3.45	3.84	4.49
EER(Fan Coil)		W/W	3.50	3.25	3.70	3.40	3.10	2.80	2.71
COP(Fan Coil or Radiator)		W/W	4.20	4.10	4.36	4.08	3.77	3.70	3.61
Refrigerant charge volume		kg	0.95	0.95	1.60	1.60	2.20	2.20	2.20
Electric heater	Operation	-	Automatic	Automatic	Automatic	Automatic	Automatic	Automatic	Automatic
	Steps	-	2	2	2	2	2	2	2
	Capacity	kW	3	3	6	6	6	6	6
	Combination	kW	1.5+1.5	1.5+1.5	3+3	3+3	3+3	3+3	3+3
	Power input	V/Ph/Hz	230V~ 50Hz	230V~ 50Hz	230V~ 50Hz	230V~ 50Hz	230V~ 50Hz	230V~ 50Hz	230V~ 50Hz
Sanitary water temperature		℃	40~80	40~80	40~80	40~80	40~80	40~80	40~80
Sound pressure level	Cooling	dB(A)	51	52	52	54	54	55	56
	Heating	dB(A)	53	53	54	56	56	58	59
Dimensions	Outline (W × D × H)	mm	1150	1150	1206	1206	1206	1206	1206
		mm	365	365	445	445	445	445	445
		mm	735	735	878	878	878	878	878
	Packaged (W × L × H)	mm	503	503	553	553	553	553	553
		mm	1258	1258	1338	1338	1338	1338	1338
		mm	900	900	1020	1020	1020	1020	1020
Net weight		kg	95.0	95.0	127.0	127.0	142.0	142.0	142.0
Gross weight		kg	112.0	112.0	146.0	146.0	161.0	161.0	161.0
Loading quantity	20 ' Container	unit	38	38	32	32	32	32	32
	40 ' Container	unit	82	82	66	66	66	66	66
	40 ' High Cube Container	unit	82	82	66	66	66	66	66

Model			GRS-CQ8.0Pd/NhG3-M	GRS-CQ10Pd/NhG3-M	GRS-CQ12Pd/NhG3-M	GRS-CQ14Pd/NhG3-M	GRS-CQ16Pd/NhG3-M
Capacity (Floor)	Cooling	kW	8.30	10.20	12.00	13.90	15.40
	Heating	kW	8.20	10.20	12.00	14.20	15.70
Power input(Floor)	Cooling	kW	1.64	2.13	2.61	3.32	4.05
	Heating	kW	1.62	2.06	2.49	3.09	3.57
EER(Floor Cooling)		W/W	5.06	4.79	4.60	4.19	3.80
COP(Floor Heating)		W/W	5.06	4.95	4.82	4.60	4.40
Capacity (FanCoil)	Cooling	kW	7.10	9.10	11.10	13.30	13.80
	Heating	kW	8.20	10.20	13.00	14.20	16.20
Power input (FanCoil)	Cooling	kW	2.10	2.80	3.58	4.75	5.09
	Heating	kW	2.05	2.60	3.45	3.84	4.49
EER(Fan Coil)		W/W	3.38	3.25	3.10	2.80	2.71
COP(Fan Coil or Radiator)		W/W	4.00	3.92	3.77	3.70	3.61
Refrigerant charge volume		kg	1.60	1.60	2.20	2.20	2.20
Electric heater	Operation	-	Field supply	Field supply	Automatic	Automatic	Automatic
	Steps	-	2	2	2	2	2
	Capacity	kW	6	6	6	6	6
	Combination	kW	3+3	3+3	3+3	3+3	3+3
	Power input	V/Ph/Hz	400V 3N~ 50Hz	400V 3N~ 50Hz	400V 3N~ 50Hz	400V 3N~ 50Hz	400V 3N~ 50Hz
Sanitary water temperature		℃	40~80	40~80	40~80	40~80	40~80
Sound pressure level	Cooling	dB(A)	52	54	54	55	56
	Heating	dB(A)	54	56	56	58	59
Dimensions	Outline (W × D × H)	mm	1206	1206	1206	1206	1206
		mm	445	445	445	445	445
		mm	878	878	878	878	878
	Packaged (W × L × H)	mm	553	553	553	553	553
		mm	1338	1338	1338	1338	1338
		mm	1020	1020	1020	1020	1020
Net weight		kg	141.0	141.0	148.0	148.0	148.0
Gross weight		kg	159.0	159.0	166.0	166.0	166.0
Loading quantity	20 ' Container	unit	32	32	32	32	32
	40 ' Container	unit	66	66	66	66	66
	40 ' High Cube Container	unit	66	66	66	66	66

Model			GRS-CQ4.0Pd/NhG4-E	GRS-CQ6.0Pd/NhG4-E	GRS-CQ8.0Pd/NhG4-E	GRS-CQ10Pd/NhG4-E	GRS-CQ12Pd/NhG4-E	GRS-CQ14Pd/NhG4-E	GRS-CQ16Pd/NhG4-E
Capacity (Floor)	Cooling	kW	5.00	6.50	8.30	10.20	12.00	13.70	15.50
	Heating	kW	5.00	6.00	8.20	10.20	12.00	14.20	15.70
Power input(Floor)	Cooling	kW	0.96	1.28	1.56	2.00	2.45	3.00	3.60
	Heating	kW	0.93	1.11	1.54	2.02	2.43	2.99	3.45
EER(Floor Cooling)		W/W	5.20	5.10	5.32	5.10	4.90	4.57	4.31
COP(Floor Heating)		W/W	5.40	5.40	5.32	5.05	4.94	4.75	4.55
Capacity (FanCoil)	Cooling	kW	4.90	5.70	7.40	9.00	11.10	13.30	13.80
	Heating	kW	4.90	6.80	8.30	10.20	13.00	14.20	16.20
Power input (FanCoil)	Cooling	kW	1.40	1.76	2.00	2.65	3.58	4.75	5.09
	Heating	kW	1.17	1.66	1.90	2.50	3.45	3.84	4.49
EER(Fan Coil)		W/W	3.50	3.25	3.70	3.40	3.10	2.80	2.71
COP(Fan Coil or Radiator)		W/W	4.20	4.10	4.36	4.08	3.77	3.70	3.61
Refrigerant charge volume		kg	0.95	0.95	1.60	1.60	2.20	2.20	2.20
Sanitary water temperature		℃	40~80	40~80	40~80	40~80	40~80	40~80	40~80
Sound pressure level	Cooling	dB(A)	51	52	52	54	54	55	56
	Heating	dB(A)	53	53	54	56	56	58	59
Dimensions	Outline (W×D×H)	mm	1150	1150	1206	1206	1206	1206	1206
		mm	365	365	445	445	445	445	445
		mm	735	735	878	878	878	878	878
	Packaged (W×L×H)	mm	503	503	553	553	553	553	553
		mm	1258	1258	1338	1338	1338	1338	1338
		mm	900	900	1020	1020	1020	1020	1020
Net weight		kg	90	90	120.0	120.0	138.0	138.0	138.0
Gross weight		kg	106	106	139.0	139.0	156.0	156.0	156.0
Loading quantity	20' Container	unit	38	38	32	32	32	32	32
	40' Container	unit	82	82	66	66	66	66	66
	40' High Cube Container	unit	82	82	66	66	66	66	66

Model			GRS-CQ8.0Pd/NhG4-M	GRS-CQ10Pd/NhG4-M	GRS-CQ12Pd/NhG4-M	GRS-CQ14Pd/NhG4-M	GRS-CQ16Pd/NhG4-M
Capacity (Floor)	Cooling	kW	8.30	10.20	12.00	13.90	15.40
	Heating	kW	8.20	10.20	12.00	14.20	15.70
Power input(Floor)	Cooling	kW	1.64	2.13	2.61	3.32	4.05
	Heating	kW	1.62	2.06	2.49	3.09	3.57
EER(Floor Cooling)		W/W	5.06	4.79	4.60	4.19	3.80
COP(Floor Heating)		W/W	5.06	4.95	4.82	4.60	4.40
Capacity (FanCoil)	Cooling	kW	7.10	9.10	11.10	13.30	13.80
	Heating	kW	8.20	10.20	13.00	14.20	16.20
Power input (FanCoil)	Cooling	kW	2.10	2.80	3.58	4.75	5.09
	Heating	kW	2.05	2.60	3.45	3.84	4.49
EER(Fan Coil)		W/W	3.38	3.25	3.10	2.80	2.71
COP(Fan Coil or Radiator)		W/W	4.00	3.92	3.77	3.70	3.61
Refrigerant charge volume		kg	1.60	1.60	2.20	2.20	2.20
Sanitary water temperature		℃	40~80	40~80	40~80	40~80	40~80
Sound pressure level	Cooling	dB(A)	52	54	54	55	56
	Heating	dB(A)	54	56	56	58	59
Dimensions	Outline (W×D×H)	mm	1206	1206	1206	1206	1206
		mm	445	445	445	445	445
		mm	878	878	878	878	878
	Packaged (W×L×H)	mm	553	553	553	553	553
		mm	1338	1338	1338	1338	1338
		mm	1020	1020	1020	1020	1020
Net weight		kg	134.0	134.0	144.0	144.0	144.0
Gross weight		kg	152.0	152.0	162.0	162.0	162.0
Loading quantity	20' Container	unit	32	32	32	32	32
	40' Container	unit	66	66	66	66	66
	40' High Cube Container	unit	66	66	66	66	66

Versati III (Split Type)

R32

It's a kind of integrated DC inverter unit that comprises cooling, heating and water heating functions, with up to 5.0 energy efficiency. It adopts R32 refrigerant and two-stage compressor. For heating, ambient temperature range is -25~35℃, while the leaving water temperature range is 25~60℃.

Quiet function

Self-diagnosis

High efficiency

Compact design

Wide voltage range

Comprehensive protection

Golden fin condenser

Inner groove copper

Low voltage startup

Low temperature heating

Memory function

LCD display

24 hour timer

Key-card control

Long-distance monitoring

Intelligent defrosting

Weekly timer

℃/℉switch

Clock display

Wide operation range

Child lock

》Floor debugging function;

》Integrated structure, simple installation, less installation cost; R32 refrigerant, low GWP;

》Adopt two-stage compressor to widen the ambient temperature range for heating;

》Leaving water temperature up to 60℃, applicable to various heating terminals.

Item	Water side	Heat source/User side
	Leaving water temperature(℃)	Dry bulb temperature(℃)
Cooling	7~25	10~48
Heating	20~60	-25~35
Water heating	40~80(Water tank)	-25~45

Note: When operating conditions are out of the range listed above, please contact Gree.

Specifications

Model			GRS-CQ4.0Pd /NhH2-E(O)	GRS-CQ6.0Pd /NhH2-E(O)	GRS-CQ8.0Pd /NhH2-E(O)	GRS-CQ10Pd /NhH2-E(O)	GRS-CQ12Pd /NhH-E(O)	GRS-CQ14Pd /NhH-E(O)	GRS-CQ16Pd /NhH-E(O)
Power supply		V/Ph/Hz	230V~ 50Hz	230V~ 50Hz	230V~ 50Hz	230V~ 50Hz	230V~ 50Hz	230V~ 50Hz	230V~ 50Hz
Capacity*1	Cooling*3	kW	3.90	5.80	7.70	9.35	11.00	12.60	13.00
	Heating*4	kW	4.00	6.00	8.00	10.00	12.00	14.00	15.50
Power input*1	Cooling*3	kW	0.68	1.13	1.72	2.36	2.50	3.41	3.60
	Heating*4	kW	0.77	1.20	1.61	2.10	2.40	2.98	3.44
EER/COP *1		W/W	5.74/5.20	5.15/5.00	4.48/4.97	3.96/4.76	4.40/5.00	3.70/4.70	3.61/4.50
Capacity *2	Cooling*5	kW	3.40	4.00	7.15	7.60	10.59	11.07	11.51
	Heating*6	kW	4.10	5.80	8.00	9.85	12.40	14.48	16.09
Power input*2	Cooling*5	kW	0.92	1.16	2.49	2.77	3.79	4.18	4.49
	Heating*6	kW	1.04	1.52	2.07	2.69	3.29	3.93	4.44
EER/COP*2		W/W	3.69/3.94	3.45/3.82	2.87/3.86	2.74/3.67	2.79/3.77	2.65/3.68	2.56/3.62
Refrigerant charge volume		kg	1.10	1.10	1.84	1.84	1.84	1.84	1.84
Sanitary water temperature		℃	40~80	40~80	40~80	40~80	40~80	40~80	40~80
Sound pressure level	Cooling	dB(A)	52	52	55	55	57	58	58
	Heating	dB(A)	52	52	55	55	57	58	58
Connecting pipe	Gas	inch(mm)	1/2"(12)	1/2"(12)	1/2"(12)	1/2"(12)	5/8"(16)	5/8"(16)	5/8"(16)
	Liquid	inch(mm)	1/4"(6)	1/4"(6)	1/4"(6)	1/4"(6)	1/4"(6)	1/4"(6)	1/4"(6)
Dimensions (W×D×H)	Outline	mm	975×396×702	975×396×702	982×427×787	982×427×787	940×460×820	940×460×820	940×460×820
	Packaged	mm	1029×458×845	1029×458×845	1097×478×937	1097×478×937	1103×573×973	1103×573×973	1103×573×973
Net weight/Gross weight		kg	55/63	55/63	82/92	82/92	104/114	104/114	104/114
Loading quantity	40'GP	unit	114	114	96	96	84	84	84
	40'HQ	unit	171	171	96	96	84	84	84

Model			GRS-CQ4.0Pd/NhH2-E(I)	GRS-CQ6.0Pd/NhH2-E(I)	GRS-CQ8.0Pd/NhH2-E(I)	GRS-CQ10Pd/NhH2-E(I)
Power supply		V/Ph/Hz	230V~ 50	230V~ 50	230V~ 50	230V~ 50
Nominal input		kW	3.1	3.1	6.1	6.1
Leaving Water Temperature	Cooling(fan coil)	℃	7	7	7	7
	Cooling(floor)	℃	18	18	18	18
	Heating(fan coil)	℃	45	45	45	45
	Heating(floor)	℃	35	35	35	35
Pump	Type	-	Water-cooled	Water-cooled	Water-cooled	Water-cooled
	Nr.of speed	-	variable-speed	variable-speed	variable-speed	variable-speed
	Power input	W	2-75	2-75	2-75	2-75
	Water flow limit	LPM	12	12	12	12
Electric heater	Operation	-	Automatic	Automatic	Automatic	Automatic
	Steps	-	2	2	2	2
	Capacity	kW	3	3	6	6
	Combination	-	1.5+1.5	1.5+1.5	3+3	3+3
	Power input	kW	3	3	6	6
Sound pressure level		dB(A)	29	29	29	29
Connecting pipe	Gas	Inch(mm)	1/2"(12)	1/2"(12)	1/2"(12)	1/2"(12)
	Liquid	Inch(mm)	1/4"(6)	1/4"(6)	1/4"(6)	1/4"(6)
Dimensions(W×D×H)	Outline	mm	860×318×460	860×318×460	860×318×460	860×318×460
	Packaged	mm	1133×390×568	1133×390×568	1133×390×568	1133×390×568
Net weight/Gross weight		kg	58/67	58/67	58/67	58/67
Loading quantity	40'GP	unit	240	240	240	240
	40'HQ	unit	240	240	240	240

Note:
1.Capacity and power input are based on the following conditions:
- **Cooling conditions.**
  Outdoor air temperature 35℃ DB/-WB.
  Entering water temperature 23℃.
  Leaving water temperature 18℃
- **Heating conditions.**
  Outdoor air temperature 7℃ DB/6℃ WB.
  Entering water temperature 30℃.
  Leaving water temperature 35℃
  Standing piping length 5m.

2.Capacity and power input are based on the following conditions:
- **Cooling conditions.**
  Outdoor air temperature 35℃ DB/-WB.
  Entering water temperature 12℃.
  Leaving water temperature 7℃
- **Heating conditions.**
  Outdoor air temperature 7℃ DB/6℃ WB.
  Entering water temperature 40℃.
  Leaving water temperature 45℃
  Standing piping length 5m.

3. For floor cooling.
4. For floor heating.
5. For fan coil unit.
6. For fan coil or radiator.

Model			GRS-CQ12Pd /NhH-E(I)	GRS-CQ14Pd /NhH-E(I)	GRS-CQ16Pd /NhH-E(I)
Power supply		V/Ph/Hz	230V~ 50Hz	230V~ 50Hz	230V~ 50Hz
Nominal input		kW	6.1	6.1	6.1
Leaving water temperature	Cooling*1	℃	18	18	18
	Cooling*2	℃	7	7	7
	Heating*1	℃	35	35	35
	Heating*2	℃	45	45	45
Pump	Type	-	Water-cooled	Water-cooled	Water-cooled
	Nr. of speed	-	variable-speed	variable-speed	variable-speed
	Power input	W	3-87	3-87	3-87
	Water flow limit	LPM	12	12	12
Electric heater	Operation	-	Automatic	Automatic	Automatic
	Steps	-	2	2	2
	Capacity	kW	6	6	6
	Combination	kW	3+3	3+3	3+3
	Power input	V/Ph/Hz	230V~ 50Hz	230V~ 50Hz	230V~ 50Hz
Sound pressure level		dB(A)	29	29	29
Connecting pipe	Gas	inch(mm)	5/8"(16)	5/8"(16)	5/8"(16)
	Liquid	inch(mm)	1/4"(6)	1/4"(6)	1/4"(6)
Dimensions (W×D×H)	Outline	mm	860×460×318	860×460×318	860×460×318
	Packaged	mm	1133×568×390	1133×568×390	1133×568×390
Net weight/Gross weight		kg	58/67	58/67	58/67
Loading quantity	40'GP	unit	240	240	240
	40'HQ	unit	240	240	240

Note:
1.Capacity and power input are based on the following conditions:
- **Cooling conditions.**
  Outdoor air temperature 35℃ DB/-WB.
  Entering water temperature 23℃.
  Leaving water temperature 18℃
- **Heating conditions.**
  Outdoor air temperature 7℃ DB/6℃ WB.
  Entering water temperature 30℃.
  Leaving water temperature 35℃
  Standing piping length 5m.

2.Capacity and power input are based on the following conditions:
- **Cooling conditions.**
  Outdoor air temperature 35℃ DB/-WB.
  Entering water temperature 12℃.
  Leaving water temperature 7℃
- **Heating conditions.**
  Outdoor air temperature 7℃ DB/6℃ WB.
  Entering water temperature 40℃.
  Leaving water temperature 45℃
  Standing piping length 5m.

3. For floor cooling.
4. For floor heating.
5. For fan coil unit.
6. For fan coil or radiator.

Model			GRS-CQ8Pd/NhH-M(O)	GRS-CQ10Pd/NhH-M(O)	GRS-CQ12Pd/NhH-M(O)	GRS-CQ14Pd/NhH-M(O)	GRS-CQ16Pd/NhH-M(O)
Power supply		V/Ph/Hz	400V 3N~ 50Hz	400V 3N~ 50Hz	400V 3N~ 50Hz	400V 3N~ 50Hz	400V 3N~ 50Hz
Capacity *1	Cooling *3	kW	8.50	10.00	11.00	12.60	13.00
	Heating *4	kW	8.00	10.00	12.00	14.00	15.50
Power input *1	Cooling *3	kW	1.74	2.33	2.50	3.41	3.60
	Heating *4	kW	1.63	2.15	2.40	2.98	3.44
EER/COP *1		W/W	4.89/4.91	4.29/4.65	4.40/5.00	3.70/4.70	3.61/4.51
Capacity *2	Cooling *5	kW	7.60	8.20	10.65	11.24	11.52
	Heating *6	kW	8.00	10.20	12.29	14..44	16.13
Power input *2	Cooling *5	kW	2.48	2.61	3.74	4.13	4.38
	Heating *6	kW	1.92	2.55	3.09	3.63	4.16
EER/COP *2		W/W	3.07/4.17	3.14/4.00	2.85/3.98	2.72/3.98	2.63/3.88
Refrigerant charge volume		kg	1.84	1.84	1.84	1.84	1.84
Sanitary water temperature		℃	40~80	40~80	40~80	40~80	40~80
Sound pressure level	cooling	dB(A)	57	57	57	58	58
	heating	dB(A)	57	57	57	58	58
Connecting pipe	Gas	inch(mm)	1/2 " (12)	1/2 " (12)	5/8 " (16)	5/8 " (16)	5/8 " (16)
	Liquid	inch(mm)	1/4 " (6)	1/4 " (6)	1/4 " (6)	1/4 " (6)	1/4 " (6)
Dimensions (W × D × H)	Outline	mm	982 × 427 × 787	982 × 427 × 787	940 × 460 × 820	940 × 460 × 820	940 × 460 × 820
	Packaged	mm	1097 × 478 × 937	1097 × 478 × 937	1103 × 573 × 973	1103 × 573 × 973	1103 × 573 × 973
Net weight/Gross weight		kg	88/89	88/98	110/121	110/121	110/121
Loading quantity	40'GP	set	96	96	84	84	84
	40'HQ	set	96	96	84	84	84

Model			GRS-CQ8.0Pd/NhH-M(I)	GRS-CQ10Pd/NhH-M(I)	GRS-CQ12Pd/NhH-M(I)	GRS-CQ14Pd/NhH-M(I)	GRS-CQ16Pd/NhH-M(I)
Power supply		V/Ph/Hz	400V 3N~ 50Hz	400V 3N~ 50Hz	400V 3N~ 50Hz	400V 3N~ 50Hz	400V 3N~ 50Hz
Nominal input		kW	6.1	6.1	6.1	6.1	6.1
Leaving water temperature	Cooling *1	℃	18	18	18	18	18
	Cooling *2	℃	7	7	7	7	7
	Heating *1	℃	35	35	35	35	35
	Heating *2	℃	45	45	45	45	45
Pump	Type	-	Water-cooled	Water-cooled	Water-cooled	Water-cooled	Water-cooled
	Nr. of speed	-	Variable-speed	Variable-speed	Variable-speed	Variable-speed	Variable-speed
	Power input	W	2-75	2-75	3-87	3-87	3-87
	Water flow limit	LPM	12	12	12	12	12
Electric heater	Operation	-	Automatic	Automatic	Automatic	Automatic	Automatic
	Steps	-	2	2	2	2	2
	Capacity	kW	6	6	6	6	6
	Combination	kW	3+3	3+3	3+3	3+3	3+3
	Power input	V/Ph/Hz	400V 3N~ 50Hz	400V 3N~ 50Hz	400V 3N~ 50Hz	400V 3N~ 50Hz	400V 3N~ 50Hz
Sound pressure level		dB(A)	29	29	29	29	29
Connecting pipe	Gas	inch(mm)	1/2"(12)	1/2"(12)	5/8"(16)	5/8"(16)	5/8"(16)
	Liquid	inch(mm)	1/4"(6)	1/4"(6)	1/4"(6)	1/4"(6)	1/4"(6)
Dimensions (W × D × H)	Outline	mm	860x318x460	860x318x460	860x318x460	860x318x460	860x318x460
	Packaged	mm	1133x568x390	1133x568x390	1133x568x390	1133x568x390	1133x568x390
Net weight/Gross weight		kg	60/69	60/69	60/69	60/69	60/69
Loading quantity	40'GP	set	240	240	240	240	240
	40'HQ	set	240	240	240	240	240

Note:
1.Capacites and power inputs are based on the following conditions:
- **Cooling conditions.**
  Outdoor air temperature 35℃ DB/-WB.
  Entering water temperature 23℃.
  Leaving water temperature 18℃
- **Heating conditions.**
  Outdoor air temperature 7℃ DB/6℃ WB.
  Entering water temperature 30℃.
  Leaving water temperature 35℃
  Standing piping length 5m.

2.Capacites and power inputs are based on the following conditions:
- **Cooling conditions.**
  Outdoor air temperature 35℃ DB/-WB.
  Entering water temperature 12℃.
  Leaving water temperature 7℃
- **Heating conditions.**
  Outdoor air temperature 7℃ DB/6℃ WB.
  Entering water temperature 40℃.
  Leaving water temperature 45℃
  Standing piping length 5m.

3. For floor cooling.
4. For floor heating.
5. For fan coil unit.
6. For fan coil or radiator.

Versatilll (All in One)

It’s a kind of integrated DC inverter unit that comprises cooling, heating and water heating functions, and up to 5.0 energy efficiency. It adopts R32 refrigerant and two-stage compressor. For heating, ambient temperature range is -25~35℃, while the leaving water temperature range is 25~60℃ .

4/6KW

8/10KW

Inner groove copper | Quiet function | Weekly timer | Low temperature heating | Key-card control | Comprehensive protection | 24 hour timer | Child lock | Wide operation range

Wide voltage range | Self-diagnosis | Low voltage startup | Memory function | Intelligent defrosting | ℃ /℉switch | Clock display | Long-distance monitoring | Golden fin condenser

- Floor debugging function;
- Integrated structure, simple installation, and less installation cost;
- R32 refrigerant, low GWP;
- Adopt two-stage compressor to widen the ambient temperature range for heating;
- Leaving water temperature up to 60℃, applicable to various heating terminals.

Item	Water side	Heat source/User side
	Leaving water temperature(℃)	Dry bulb temperature (℃)
Cooling	7~25	10~48
Heating	20~60	-25~35
Water heating	40~80	-25~45

Note:
*1: When operating conditions are out of the range listed above, please contact Gree.

Specifications

Outdoor Unit

Model			GRS-CQ4.0Pd/NhH-E(O)	GRS-CQ6.0Pd/NhH-E(O)	GRS-CQ8.0Pd/NhH-E(O)	GRS-CQ10Pd/NhH-E(O)
Power supply		V/Ph/Hz	230V~ 50Hz	230V~ 50Hz	230V~ 50Hz	230V~ 50Hz
Capacity*1	Cooling*3	kW	3.80	5.80	7.00	8.50
	Heating*4	kW	4.00	6.00	8.00	9.50
Power input*1	Cooling*3	kW	0.82	1.32	1.75	2.24
	Heating*4	kW	0.78	1.20	1.70	2.07
EER/COP*1		W/W	4.63/5.13	4.40/5.00	4.00/4.71	3.79/4.59
Capacity*2	Cooling*5	kW	3.15	4.09	5.30	6.50
	Heating*6	kW	4.00	5.90	8.00	9.50
Power input*2	Cooling*5	kW	0.92	1.28	1.73	2.27
	Heating*6	kW	1.02	1.51	2.14	2.64
EER/COP*2		W/W	3.42/3.92	3.20/3.91	3.06/3.74	2.86/3.60
Refrigerant charge volume		kg	1.00	1.00	1.60	1.60
Sanitary water temperature		℃	40~80	40~80	40~80	40~80
Sound pressure level	Cooling	dB(A)	55	55	57	57
	Heating	dB(A)	55	55	57	57
Connecting pipe	Gas	inch(mm)	1/2"(12)	1/2"(12)	1/2"(12)	1/2"(12)
	Liquid	inch(mm)	1/4"(6)	1/4"(6)	1/4"(6)	1/4"(6)
Dimensions	Outline	mm	975 × 396 × 702	975 × 396 × 702	982 × 427 × 787	982 × 427 × 787
(W × D × H)	Packaged	mm	1029 × 458 × 845	1029 × 458 × 845	1097 × 478 × 937	1097 × 478 × 937
Net weight/Gross weight		kg	55/63	55/63	82/92	82/92
Loading quantity	40'GP	unit	114	114	96	96
	40'HQ	unit	171	171	96	96

Model			GRS-CQ12Pd/NhH-E(O)	GRS-CQ14Pd/NhH-E(O)	GRS-CQ16Pd/NhH-E(O)	GRS-CQ8.0Pd/NhH-M(O)
Power supply		V/Ph/Hz	230V~ 50Hz	230V~ 50Hz	230V~ 50Hz	400V 3N~ 50Hz
Capacity*1	Cooling*3	kW	11.00	12.60	13.00	8.50
	Heating*4	kW	12.00	14.00	15.50	8.00
Power input*1	Cooling*3	kW	2.50	3.41	3.60	1.74
	Heating*4	kW	2.40	2.98	3.44	1.63
EER/COP*1		W/W	4.40/5.00	3.70/4.70	3.61/4.50	4.89/4.91
Capacity*2	Cooling*5	kW	10.59	11.07	11.51	7.60
	Heating*6	kW	12.40	14.48	16.09	8.00
Power input*2	Cooling*5	kW	3.79	4.18	4.49	2.48
	Heating*6	kW	3.29	3.93	4.44	1.92
EER/COP*2		W/W	2.79/3.77	2.65/3.68	2.56/3.62	3.07/4.17
Refrigerant charge volume		kg	1.84	1.84	1.84	1.84
Sanitary water temperature		℃	40~80	40~80	40~80	40~80
Sound pressure level	Cooling	dB(A)	57	58	58	57
	Heating	dB(A)	57	58	58	57
Connecting pipe	Gas	inch(mm)	5/8"(16)	5/8"(16)	5/8"(16)	1/2"(12)
	Liquid	inch(mm)	1/4"(6)	1/4"(6)	1/4"(6)	1/4"(6)
Dimensions	Outline	mm	940 × 460 × 820	940 × 460 × 820	940 × 460 × 820	982 × 427 × 787
(W × D × H)	Packaged	mm	1103 × 573 × 973	1103 × 573 × 973	1103 × 573 × 973	1097 × 478 × 937
Net weight/Gross weight		kg	104/114	104/114	104/114	88/98
Loading quantity	40'GP	unit	84	84	84	96
	40'HQ	unit	84	84	84	96

Note:
1.Capacity and power input are based on the following conditions:
- **Cooling conditions.**
  Outdoor air temperature 35℃ DB/-WB.
  Entering water temperature 23℃.
  Leaving water temperature 18℃
- **Heating conditions.**
  Outdoor air temperature 7℃ DB/6℃ WB.
  Entering water temperature 30℃.
  Leaving water temperature 35℃
  Standing piping length 5m.

2.Capacites and power inputs are based on the following conditions:
- **Cooling conditions.**
  Outdoor air temperature 35℃ DB/-WB.
  Entering water temperature 12℃.
  Leaving water temperature 7℃
- **Heating conditions.**
  Outdoor air temperature 7℃ DB/6℃ WB.
  Entering water temperature 40℃.
  Leaving water temperature 45℃
  Standing piping length 5m.

3. For floor cooling.
4. For floor heating.
5. For fan coil unit.
6. For fan coil or radiator.

Specifications

Outdoor Unit

Model			GRS-CQ10Pd/NhH-M(O)	GRS-CQ12Pd/NhH-M(O)	GRS-CQ14Pd/NhH-M(O)	GRS-CQ16Pd/NhH-M(O)
Power supply		V/Ph/Hz	400V 3N~ 50Hz	400V 3N~ 50Hz	400V 3N~ 50Hz	400V 3N~ 50Hz
Capacity*1	Cooling*3	kW	10.00	11.00	12.60	13.00
	Heating*4	kW	10.00	12.00	14.00	15.50
Power input*1	Cooling*3	kW	2.33	2.50	3.41	3.60
	Heating*4	kW	2.15	2.40	2.98	3.44
EER/COP*1		W/W	4.29/4.65	4.40/5.00	3.70/4.70	3.61/4.51
Capacity*2	Cooling*5	kW	8.20	10.65	11.24	11.52
	Heating*6	kW	10.20	12.29	14.44	16.13
Power input*2	Cooling*5	kW	2.61	3.74	4.13	4.38
	Heating*6	kW	2.55	3.09	3.63	4.16
EER/COP*2		W/W	3.14/4	2.85/3.98	2.72/3.98	2.63/3.88
Refrigerant charge volume		kg	1.84	1.84	1.84	1.84
Sanitary water temperature		℃	40~80	40~80	40~80	40~80
Sound pressure level	Cooling	dB(A)	57	57	58	58
	Heating	dB(A)	57	57	58	58
Connecting pipe	Gas	inch(mm)	1/2"(12)	5/8"(16)	5/8"(16)	5/8"(16)
	Liquid	inch(mm)	1/4"(6)	1/4"(6)	1/4"(6)	1/4"(6)
Dimensions	Outline	mm	982 × 427 × 787	940 × 460 × 820	940 × 460 × 820	940 × 460 × 820
(W × D × H)	Packaged	mm	1097 × 478 × 937	1103 × 573 × 973	1103 × 573 × 973	1103 × 573 × 973
Net weight/Gross weight		kg	88/98	110/121	110/121	110/121
Loading quantity	40'GP	unit	96	84	84	84
	40'HQ	unit	96	84	84	84

Model			GRS-CQ4.0Pd/NhH2-E(O)	GRS-CQ6.0Pd/NhH2-E(O)	GRS-CQ8.0Pd/NhH2-E(O)	GRS-CQ10Pd/NhH2-E(O)
Power supply		V/Ph/Hz	230V~ 50Hz	230V~ 50Hz	230V~ 50Hz	230V~ 50Hz
Capacity*1	Cooling*3	kW	3.90	5.80	7.70	9.35
	Heating*4	kW	4.00	6.00	8.00	10.00
	Cooling*3	kW	0.68	1.13	1.72	2.36
	Heating*4	kW	0.77	1.20	1.61	2.10
EER/COP*1		W/W	5.74/5.20	5.15/5.00	4.48/4.97	3.96/4.76
Capacity*2	Cooling*5	kW	3.40	4.00	7.15	7.60
	Heating*6	kW	4.10	5.80	8.00	9.85
	Cooling*5	kW	0.92	1.16	2.49	2.77
	Heating*6	kW	1.04	1.52	2.07	2.69
EER/COP*2		W/W	3.69/3.94	3.45/3.82	2.87/3.86	2.74/3.67
Refrigerant charge volume		kg	1.10	1.10	1.84	1.84
Sanitary water temperature		℃	40~80	40~80	40~80	40~80
Sound pressure	Cooling	dB(A)	52	52	55	55
level	Heating	dB(A)	52	52	55	55
Connecting pipe	Gas	inch(mm)	1/2"(12)	1/2"(12)	1/2"(12)	1/2"(12)
	Liquid	inch(mm)	1/4"(6)	1/4"(6)	1/4"(6)	1/4"(6)
Dimensions	Outline	mm	975 × 396 × 702	975 × 396 × 702	982 × 427 × 787	982 × 427 × 787
(W × D × H)	Packaged	mm	1029 × 458 × 845	1029 × 458 × 845	1097 × 478 × 937	1097 × 478 × 937
Net weight/Gross weight		kg	55/63	55/63	82/92	82/92
Loading quantity	40'GP	unit	114	114	96	96
	40'HQ	unit	171	171	96	96

Note:
1.Capacity and power inputare based on the following conditions:
- **Cooling conditions.**
  Outdoor air temperature 35℃ DB/-WB.
  Entering water temperature 23℃.
  Leaving water temperature 18℃
- **Heating conditions.**
  Outdoor air temperature 7℃ DB/6℃ WB.
  Entering water temperature 30℃.
  Leaving water temperature 35℃
  Standing piping length 5m.

2.Capacity and power input are based on the following conditions:
- **Cooling conditions.**
  Outdoor air temperature 35℃ DB/-WB.
  Entering water temperature 12℃.
  Leaving water temperature 7℃
- **Heating conditions.**
  Outdoor air temperature 7℃ DB/6℃ WB.
  Entering water temperature 40℃.
  Leaving water temperature 45℃
  Standing piping length 5m.

3. For floor cooling.
4. For floor heating.
5. For fan coil unit.
6. For fan coil or radiator.

Indoor Unit

Model			GRS-CQ4.0PdG /NhH-E(I)	GRS-CQ6.0PdG /NhH-E(I)	GRS-CQ8.0PdG /NhH-E(I)	GRS-CQ10PdG /NhH-E(I)	GRS-CQ12PdG /NhH-E(I)	GRS-CQ14PdG /NhH-E(I)	GRS-CQ16PdG /NhH-E(I)
Power supply		V/Ph/Hz	230V~ 50Hz	230V~ 50Hz	230V~ 50Hz	230V~ 50Hz	230V~ 50Hz	230V~ 50Hz	230V~ 50Hz
Nominal input		W	3100	3100	6100	6100	6100	6100	6100
Leaving water temperature	Cooling *1	℃	18	18	18	18	18	18	18
	Cooling *2	℃	7	7	7	7	7	7	7
	Heating *1	℃	35	35	35	35	35	35	35
	Heating *2	℃	45	45	45	45	45	45	45
Pump	Type	-	Water-cooled	Water-cooled	Water-cooled	Water-cooled	Water-cooled	Water-cooled	Water-cooled
	Nr. of speed	-	Variable-speed	Variable-speed	Variable-speed	Variable-speed	Variable-speed	Variable-speed	Variable-speed
	Power input	W	2-75	2-75	2-75	2-75	3-87	3-87	3-87
	Water flow limit	LPM	12	12	12	12	12	12	12
Electric heater	Operation	-	Automatic	Automatic	Automatic	Automatic	Automatic	Automatic	Automatic
	Steps	-	2	2	2	2	2	2	2
	Capacity	kW	3	3	6	6	6	6	6
	Combination	kW	1.5+1.5	1.5+1.5	3+3	3+3	3+3	3+3	3+3
	Power input	V/Ph/Hz	230V~ 50Hz	230V~ 50Hz	230V~ 50Hz	230V~ 50Hz	230V~ 50Hz	230V~ 50Hz	230V~ 50Hz
Sound pressure level		dB(A)	29	29	29	29	29	29	29
Connecting pipe	Gas	inch(mm)	1/2"(12)	1/2"(12)	1/2"(12)	1/2"(12)	5/8"(16)	5/8"(16)	5/8"(16)
	Liquid	inch(mm)	1/4"(6)	1/4"(6)	1/4"(6)	1/4"(6)	1/4"(6)	1/4"(6)	1/4"(6)
Dimensions (W × D × H)	Outline	mm	860 × 318 × 460	860 × 318 × 460	860 × 318 × 460	860 × 318 × 460	860 × 318 × 460	860 × 318 × 460	860 × 318 × 460
	Packaged	mm	1133 × 568 × 390	1133 × 568 × 390	1133 × 568 × 390	1133 × 568 × 390	1133 × 568 × 390	1133 × 568 × 390	1133 × 568 × 390
Net weight/Gross weight		kg	62/71	62/71	62/71	62/71	58/67	58/67	58/67
Loading quantity	40'GP	unit	240	240	240	240	240	240	240
	40'HQ	unit	240	240	240	240	240	240	240

Model			GRS-CQ4.0PdG/NhH2-E(I)	GRS-CQ6.0PdG/NhH2-E(I)	GRS-CQ8.0PdG/NhH2-E(I)	GRS-CQ10PdG/NhH2-E(I)
Power supply		V/Ph/Hz	230V~ 50Hz	230V~ 50Hz	230V~ 50Hz	230V~ 50Hz
Nominal input		W	3100	3100	6100	6100
Leaving water temperature	Cooling*1	℃	18	18	18	18
	Cooling*2	℃	7	7	7	7
	Heating*1	℃	35	35	35	35
	Heating*2	℃	45	45	45	45
Pump	Type	-	Water-cooled	Water-cooled	Water-cooled	Water-cooled
	Nr. of speed	-	Variable-speed	Variable-speed	Variable-speed	Variable-speed
	Power input	W	2-75	2-75	2-75	2-75
	Water flow limit	LPM	12	12	12	12
Electric heater	Operation	-	Automatic	Automatic	Automatic	Automatic
	Steps	-	2	2	2	2
	Capacity	kW	3	3	6	6
	Combination	kW	1.5+1.5	1.5+1.5	3+3	3+3
	Power input	V/Ph/Hz	230V~ 50Hz	230V~ 50Hz	230V~ 50Hz	230V~ 50Hz
Sound pressure level		dB(A)	34	34	34	34
Connecting pipe	Gas	inch(mm)	1/2"(12)	1/2"(12)	1/2"(12)	1/2"(12)
	Liquid	inch(mm)	1/4"(6)	1/4"(6)	1/4"(6)	1/4"(6)
Dimensions (W × D × H)	Outline	mm	600 × 650 × 1800	600 × 650 × 1800	600 × 650 × 1800	600 × 650 × 1800
	Packaged	mm	803 × 703 × 2050	803 × 703 × 2050	803 × 703 × 2050	803 × 703 × 2050
Net weight/Gross weight		kg	195/230	195/230	195/230	195/230
Loading quantity	40'GP	unit	46	46	46	46
	40'HQ	unit	46	46	46	46

Note:
1.Capacites and power inputs are based on the following conditions:
- **Cooling conditions.**
  Outdoor air temperature 35℃ DB/-WB.
  Entering water temperature 23℃.
  Leaving water temperature 18℃
- **Heating conditions.**
  Outdoor air temperature 7℃ DB/6℃ WB.
  Entering water temperature 30℃.
  Leaving water temperature 35℃
  Standing piping length 5m.

2.Capacites and power inputs are based on the following conditions:
- **Cooling conditions.**
  Outdoor air temperature 35℃ DB/-WB.
  Entering water temperature 12℃.
  Leaving water temperature 7℃
- **Heating conditions.**
  Outdoor air temperature 7℃ DB/6℃ WB.
  Entering water temperature 40℃.
  Leaving water temperature 45℃
  Standing piping length 5m.

Indoor Unit

Model			GRS-CQ8.0PdG/NhH2-M(I)	GRS-CQ10PdG/NhH2-M(I)	GRS-CQ12PdG/NhH2-M(I)
Power supply		V/Ph/Hz	400V 3N~ 50Hz	400V 3N~ 50Hz	400V 3N~ 50Hz
Nominal input		W	6100	6100	6100
Leaving water temperature	Cooling *1	℃	18	18	18
	Cooling *2	℃	7	7	7
	Heating *1	℃	35	35	35
	Heating *2	℃	45	45	45
Pump	Type	-	Water-cooled	Water-cooled	Water-cooled
	Nr. of speed	-	Variable-speed	Variable-speed	Variable-speed
	Power input	W	2-75	2-75	3-87
	Water flow limit	LPM	12	12	12
Electric heater	Operation	-	Automatic	Automatic	Automatic
	Steps	-	2	2	2
	Capacity	kW	6	6	6
	Combination	kW	3+3	3+3	3+3
	Power input	V/Ph/Hz	400V 3N~ 50Hz	400V 3N~ 50Hz	400V 3N~ 50Hz
Sound pressure level		dB(A)	34	34	34
Connecting pipe	Gas	inch(mm)	1/2"(12)	1/2"(12)	5/8"(16)
	Liquid	inch(mm)	1/4"(6)	1/4"(6)	1/4"(6)
Dimensions (W × D × H)	Outline	mm	600 × 650 × 1800	600 × 650 × 1800	600 × 650 × 1800
	Packaged	mm	803 × 703 × 2050	803 × 703 × 2050	803 × 703 × 2050
Net weight/Gross weight		kg	195/230	195/230	195/230
Loading quantity	40'GP	set	46	46	46
	40'HQ	set	46	46	46

Model			GRS-CQ14PdG/NhH2-M(I)	GRS-CQ16PdG/NhH2-M(I)
Power supply		V/Ph/Hz	400V 3N~ 50Hz	400V 3N~ 50Hz
Nominal input		W	6100	6100
Leaving water temperature	Cooling *1	℃	18	18
	Cooling *2	℃	7	7
	Heating *1	℃	35	35
	Heating *2	℃	45	45
Pump	Type	-	Automatic	Automatic
	Nr. of speed	-	Variable-speed	Variable-speed
	Power input	W	3-87	3-87
	Water flow limit	LPM	12	12
Electric heater	Operation	-	Automatic	Automatic
	Steps	-	2	2
	Capacity	kW	6	6
	Combination	kW	3+3	3+3
	Power input	V/Ph/Hz	400V 3N~ 50Hz	400V 3N~ 50Hz
Sound pressure level		dB(A)	34	34
Connecting pipe	Gas	inch(mm)	5/8"(16)	5/8"(16)
	Liquid	inch(mm)	1/4"(6)	1/4"(6)
Dimensions (W × D × H)	Outline	mm	600 × 650 × 1800	600 × 650 × 1800
	Packaged	mm	803 × 703 × 2050	803 × 703 × 2050
Net weight/Gross weight		kg	195/230	195/230
Loading quantity	40'GP	set	46	46
	40'HQ	set	46	46

Note:
1.Capacites and power inputs are based on the following conditions:
- **Cooling conditions.**
  Outdoor air temperature 35℃ DB/-WB.
  Entering water temperature 23℃.
  Leaving water temperature 18℃
- **Heating conditions.**
  Outdoor air temperature 7℃ DB/6℃ WB.
  Entering water temperature 30℃.
  Leaving water temperature 35℃
  Standing piping length 5m.

2.Capacites and power inputs are based on the following conditions:
- **Cooling conditions.**
  Outdoor air temperature 35℃ DB/-WB.
  Entering water temperature 12℃.
  Leaving water temperature 7℃
- **Heating conditions.**
  Outdoor air temperature 7℃ DB/6℃ WB.
  Entering water temperature 40℃.
  Leaving water temperature 45℃
  Standing piping length 5m.

Versati III (Monobloc Type)

INVERTER R32

It's a kind of integrated DC inverter unit that comprises cooling, heating and water heating functions, with up to 5.0 energy efficiency. It adopts R32 refrigerant and two-stage compressor. For heating, ambient temperature range is -25~35℃, while the leaving water temperature range is 25~60℃.

4/6/8kW

10/12/14/16kW

Inner groove copper

Quiet function

Weekly timer

Low temperature heating

Key-card control

Comprehensive protection

24 hour timer

Child lock

Wide operation range

Wide voltage range

Self-diagnosis

Low voltage startup

Memory function

Intelligent defrosting

℃/℉switch

Clock display

Long-distance monitoring

Golden fin condenser

- Floor debugging function;
- Integrated structure, simple installation, less installation cost;
- R32 refrigerant, low GWP;
- Adopt two-stage compressor to widen the ambient temperature range for heating;
- Leaving water temperature up to 60℃, applicable to various heating terminals.

Item	Water side	Heat source/User side
	Leaving water temperature(℃)	Dry bulb temperature
Cooling	7~25	10~48
Heating	20~65	-25~35
Water heating	40~80	-25~45

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

Model		GRS-CQ4.0Pd/NhG-K	GRS-CQ6.0Pd/NhG-K	GRS-CQ8.0Pd/NhG-K	GRS-CQ10Pd/NhG-K	GRS-CQ12Pd/NhG-K	GRS-CQ14Pd/NhG-K
Power supply	V/Ph/Hz	220-240V~ 50Hz	220-240V~ 50Hz	220-240V~ 50Hz	220-240V~ 50Hz	220-240V~50Hz	220-240V~ 50Hz
Capacity*1	kW	3.80	5.80	6.80	8.80	11.00	12.50
	kW	4.00	6.00	7.50	10.00	12.00	14.00
Power input*1	kW	0.82	1.35	1.58	1.96	2.56	3.05
	kW	0.78	1.20	1.63	2.17	2.64	3.22
EER/COP*1	W/W	4.63/5.10	4.30/5.00	4.30/4.60	4.49/4.61	4.30/4.55	4.10/4.35
Capacity*2	kW	3.00	4.00	5.00	7.80	9.50	12.00
	kW	4.00	6.00	7.50	10.00	12.00	14.00
Power input*2	kW	0.94	1.29	1.61	2.48	3.11	4.14
	kW	1.00	1.58	2.00	2.70	3.48	4.18
EER/COP*2	W/W	3.19/4.00	3.10/3.80	3.10/3.75	3.15/3.70	3.05/3.45	2.90/3.35
Refrigerant	kg	0.87	0.87	0.87	2.20	2.20	2.20
Sanitary water temperature	℃	40~80	40~80	40~80	40~80	40~80	40~80
Sound pressure level	dB(A)	51	52	53	56	56	57
	dB(A)	50	50	51	54	54	55
Connecting pipe	inch(mm)	/	/	/	/	/	/
	inch(mm)	/	/	/	/	/	/
Dimensions (W×D×H)	mm	1150×345×758	1150×345×758	1150×345×758	1200×482×878	1200×482×878	1200×482×878
	mm	1258×488×900	1258×488×900	1258×488×900	1293×589×1020	1293×589×1020	1293×589×1020
Net weight/Gross weight	kg	96/109	96/109	96/109	147/160	147/160	147/160
Loading quantity	unit	84	84	84	58	58	58
	unit	84	84	84	58	58	58

Model		GRS-CQ10Pd/NhG-M	GRS-CQ12Pd/NhG-M	GRS-CQ14Pd/NhG-M	GRS-CQ16Pd/NhG-M	GRS-CQ16Pd/NhG-K
Power supply	V/Ph/Hz	380-415V 3N~ 50HZ	380-415V 3N~ 50HZ	380-415V 3N~ 50HZ	380-415V 3N~ 50HZ	220-240V~ 50Hz
Capacity*1	kW	8.80	11.00	12.50	14.50	14.50
	kW	10.00	12.00	14.00	15.50	15.50
Power input*1	kW	1.96	2.56	3.05	3.82	3.85
	kW	2.17	2.64	3.22	3.60	3.60
EER/COP*1	W/W	4.49/4.61	4.30/4.55	4.10/4.35	3.80/4.30	3.77/4.31
Capacity*2	kW	7.80	9.50	12.00	13.00	13.00
	kW	9.00	12.00	13.00	15.50	15.50
Power input*2	kW	2.48	3.20	4.14	4.91	4.91
	kW	2.70	3.48	4.18	4.70	4.70
EER/COP	W/W	3.15/3.33	2.97/3.45	2.90/3.11	2.65/3.30	2.65/3.30
Refrigerant charge volume	kg	2.20	2.20	2.20	2.20	2.20
Sanitary water temperature	℃	40~80	40~80	40~80	40~80	40~80
Sound pressure level	dB(A)	56	56	57	59	59
	dB(A)	54	54	55	57	57
Connecting pipe	inch(mm)	/	/	/	/	/
	inch(mm)	/	/	/	/	/
Dimensions (W×D×H)	mm	1200×482×878	1200×482×878	1200×482×878	1200×482×878	1200×482×878
	mm	1293×589×1020	1293×589×1020	1293×589×1020	1293×589×1020	1293×589×1020
Net weight/Gross weight	kg	147/160	147/160	147/160	147/160	147/160
Loading quantity	unit	58	58	58	58	58
	unit	58	58	58	58	58

Note:
1.Capacity and power input are based on the following conditions:
Cooling conditions.
Outdoor air temperature 35℃ DB/-WB.
Entering water temperature 23℃.
Leaving water temperature 18℃
Heating conditions.
Outdoor air temperature 7℃ DB/6℃ WB.
Entering water temperature 30℃.
Leaving water temperature 35℃
Standing piping length 5m.

3. For floor cooling.
4. For floor heating.
5. For fan coil unit.
6. For fan coil or radiator.

2.Capacity and power input are based on the following conditions:
- **Cooling conditions.**
Outdoor air temperature 35℃ DB/-WB.
Entering water temperature 12℃.
Leaving water temperature 7℃
- **Heating conditions.**
Outdoor air temperature 7℃ DB/6℃ WB.
Entering water temperature 40℃.
Leaving water temperature 45℃
Standing piping length 5m.

Model			GRS-CQ10Pd/NhG2-K	GRS-CQ12Pd/NhG2-K	GRS-CQ14Pd/NhG2-K	GRS-CQ16Pd/NhG2-K
Power supply		V/Ph/Hz	220-240V~ 50Hz	220-240V~ 50Hz	220-240V~ 50Hz	220-240V~ 50Hz
Capacity*1	Cooling*3	kW	8.80	11.00	12.50	14.50
	Heating*4	kW	10.00	12.00	14.00	15.50
Power input *1	Cooling*3	kW	1.96	2.56	3.05	3.85
	Heating*4	kW	2.17	2.64	3.22	3.60
EER/COP *1		W/W	4.49/4.61	4.30/4.55	4.10/4.35	3.77/4.31
Capacity*2	Cooling*5	kW	7.80	9.50	12.00	13.00
	Heating*6	kW	10.00	12.00	14.00	15.50
Power input *2	Cooling*5	kW	2.48	3.11	4.14	4.91
	Heating*6	kW	2.70	3.48	4.18	4.70
EER/COP *2		W/W	3.15/3.70	3.05/3.45	2.90/3.35	2.65/3.30
Refrigerant charge volume		kg	2.20	2.20	2.20	2.20
Sanitary water temperature		℃	40~80	40~80	40~80	40~80
Sound pressure level	Cooling	dB(A)	56	56	57	59
	Heating	dB(A)	54	54	55	57
Connecting pipe	Gas	inch(mm)	/	/	/	/
	Liquid	inch(mm)	/	/	/	/
Dimensions	Outline	mm	1200 × 482 × 878	1200 × 482 × 878	1200 × 482 × 878	1200 × 482 × 878
(W × D × H)	Packaged	mm	1293 × 589 × 1020	1293 × 589 × 1020	1293 × 589 × 1020	1293 × 589 × 1020
Net weight/Gross weight		kg	147/160	147/160	147/160	147/160
Loading quantity	40'GP	unit	58	58	58	58
	40'HQ	unit	58	58	58	58

Model			GRS-CQ10Pd/NhG2-M	GRS-CQ12Pd/NhG2-M	GRS-CQ14Pd/NhG2-M	GRS-CQ16Pd/NhG2-M
Power supply		V/Ph/Hz	380-415V 3N~ 50HZ	380-415V 3N~ 50HZ	380-415V 3N~ 50HZ	380-415V 3N~ 50HZ
Capacity*1	Cooling*3	kW	8.80	11.00	12.50	14.50
	Heating*4	kW	10.00	12.00	14.00	15.50
Power input *1	Cooling*3	kW	1.96	2.56	3.05	3.82
	Heating*4	kW	2.17	2.64	3.22	3.60
EER/COP *1		W/W	4.49/4.61	4.30/4.55	4.10/4.35	3.80/4.30
Capacity*2	Cooling*5	kW	7.80	9.50	12.00	13.00
	Heating*6	kW	9.00	12.00	13.00	15.50
Power input *2	Cooling*5	kW	2.48	3.20	4.14	4.91
	Heating*6	kW	2.70	3.48	4.18	4.70
EER/COP *2		W/W	3.15/3.33	2.97/3.45	2.90/3.11	2.65/3.30
Refrigerant charge volume		kg	2.20	2.20	2.20	2.20
Sanitary water temperature		℃	40~80	40~80	40~80	40~80
Sound pressure level	Cooling	dB(A)	56	56	57	59
	Heating	dB(A)	54	54	55	57
Connecting pipe	Gas	inch(mm)	/	/	/	/
	Liquid	inch(mm)	/	/	/	/
Dimensions	Outline	mm	1200 × 482 × 878	1200 × 482 × 878	1200 × 482 × 878	1200 × 482 × 878
(W × D × H)	Packaged	mm	1293 × 589 × 1020	1293 × 589 × 1020	1293 × 589 × 1020	1293 × 589 × 1020
Net weight/Gross weight		kg	147/160	147/160	147/160	147/160
Loading quantity	40'GP	unit	58	58	58	58
	40'HQ	unit	58	58	58	58

Note:

1.Capacites and power inputs are based on the following conditions:

- **Cooling conditions.**
  Outdoor air temperature 35℃ DB/-WB.
  Entering water temperature 23℃.
  Leaving water temperature 18℃
- **Heating conditions.**
  Outdoor air temperature 7℃ DB/6℃ WB.
  Entering water temperature 30℃.
  Leaving water temperature 35℃
  Standing piping length 5m.

2.Capacites and power inputs are based on the following conditions:

- **Cooling conditions.**
  Outdoor air temperature 35℃ DB/-WB.
  Entering water temperature 12℃.
  Leaving water temperature 7℃
- **Heating conditions.**
  Outdoor air temperature 7℃ DB/6℃ WB.
  Entering water temperature 40℃.
  Leaving water temperature 45℃
  Standing piping length 5m.

3. For floor cooling.
4. For floor heating.

Split Type Water Heater

Gree split type water heater offers you with sufficient hot water, ensuring a warm and comfortable life to each family. Its installation is convenient and it is applicable for a family of 3 to 5 members.

Self-diagnosis

℃/℉ switch

Compact design

High efficiency

Clock display

Intelligent defrosting

Easier maintainability

Child lock

》Safe and eco-friendly

Water and electricity are separated to avoid possible electric shock. Without possible toxicities of CO, user's safety can be ensured. No pollutant is released during operation, so there is no damage to the environment.

》Reliable and durable

Adopting special compressor, the unit is resistant to high temperature and pressure. The entire unit is with multiple protection functions to ensure long lifespan of the system.

》Easy installation

Without limitation of environment, the unit can be installed in garage, stock room or basement.

》Easy operation

Water temperature can be set. Unit can be on or off depending on water temperature and water consumption. Unit on/off can be set by user according to requirements (the unit will stop once water temperature reaches the setting point). Running of unit in electric platykurtosis is possible to reduce electricity fee.

》Intelligent defrosting

The unit with anti-freezing and intelligent defrosting functions can efficiently prevent freezing and frosting.

》All-day use

The unit can make and supply hot water all day in despite of night, cloudy or rainy days.

Outdoor Unit

Model			GRS-S3.5PdG/NaA1-K
Rated heating capacity(1)		W	3500(1800~3700)
Rated input power(1)		W	833(360~910)
Load profile		-	L
COP_{DHW}(2)		W/W	3.1
Energy efficiency class(2)		-	A+
Water heating energy efficiency(2)		-	130%
Heating time (7/6℃/15~55℃)		h	5.40
Maximum input power		W	2000+1500W (Electric heater)
Circuit breaker		A	16
Water temperature setting		℃	35 ° C~55 ° C
Power supply		V/Ph/Hz	220-240V~ 50Hz
Protection of ingression		-	I PX4
Refrigerant	Type		R410A
	Charge	kg	1.40
Outline dimensions	W × D × H	mm	842 × 320 × 591
Package dimensions	W × D × H	mm	948 × 363 × 660
Max. pipe length/Height		m	20
Gross/Net weight		kg	44.5/38.5
Sound power level(3)		dB(A)	63
Operating range		℃	-25~45 ° C

Notes:

1. Value obtained with the following conditions: Outdoor temperature: 20℃ DB/15℃WB; Water tank temperature (start/end): 15℃ /55℃.
2. Value obtained with an air temperature of 7 ° C and a water inlet at 10℃, as per EN16147:2017+A1, (EU) No 814/2013.
3. Value obtained as per EN12102-2-2019.
4. Gree reserves the right to modify the specifications without prior notice. Please confirm the final specifications with sales representatives.

Water Tank

Model		SXTD200LCJW/A-K
Capacity	L	185
Power supply for electric heater	-	220-240V~50Hz
Input power for electric heater	W	1500
Max. operation pressure	MPa	0.70
Outline dimensions(W × D × H)	mm	462 × 462 × 2000
Package dimensions(W × D × H)	mm	2108 × 583 × 565
Water tank gross/net weight	kg	83/72.5
Outer size of connection pipe	mm	Φ6, Φ9.52
Material of inner tank	-	Enamel
Made of defending cauterization	-	Mg anode

Note: Gree reserves the right to modify the specifications without prior notice. Please confirm the final specifications with sales representatives.

Integral Type Water Heater

The unit adopts integrated design of outdoor unit and water tank ,with beautiful appearance,small size,high-end intelligence and easy installation.It is suitable for household usage.

Wired controller ZF5201

Intelligent defrosting

Energy saving

Wide operation range

℃/℉ switch

Clock display

Child lock

24 hour timer

》Safe and eco-friendly

Water and electricity are separated to avoid possible electric shock. Without possible toxicities of CO, user's safety can be ensured. No pollutant is released during operation, so there is no damage to the environment.

》Reliable and durable

Adopting special compressor, the unit is resistant to high temperature and pressure. The entire unit is with multiple protection functions to ensure long lifespan of the system.

》Easy installation

Without limitation of environment, the unit can be installed in garage, stock room or basement. Installation and maintenance is convenient for its no refrigeration system installation.

》Easy operation

Water temperature can be set. Unit can be on or off depending on water temperature and water consumption. Unit on/off can be set by user according to requirements (the unit will stop once water temperature reaches the setting point). Running of unit in electric platykurtosis is possible to reduce electricity fee.

》Intelligent defrosting

The unit with anti-freezing and intelligent defrosting functions can efficiently prevent freezing and frosting.

》All-day use

The unit can make and supply hot water all day in despite of night, cloudy or rainy days.

Model			GRS-1.5/TD150ANbA-K*[1]	GRS-1.5/TD200ANbA-K*[1]
Capacity		kW	1.5	1.5
Power input		kW	0.429	0.429
Load profile		-	L	L
COP_{DHW}		W/W	2.47	2.24
Water heating energy efficiency			104%	95%
Energy efficiency class			A	A
Refrigerant		-	R134a	R134a
Refrigerant charge volume		kg	0.8	0.8
Circuit breaker		A	16	16
Refrigerant design pressure		MPa	2.8	2.8
Tank design pressure		MPa	0.8	0.8
Max. operation pressure		MPa	0.8	0.8
Heating time (7/6℃, 15-55℃)		h	6.50	9.20
Running ambient temperature		℃	0 ~ 45	0 ~ 45
Water temperature setting		℃	35 ~ 70	35 ~ 70
Air flow rate		m^3/h	/	/
Available static pressure		Pa	/	/
Max. length of air connection		m	/	/
Sound pressure level(heating)		dB(A)	50	50
Sound power level(heating)		dB(A)	62	62
Volume		L	150	190
Water pipline	Water inlet pipe	inch	0.59	0.59
	Water outlet pipe	inch	0.59	0.59
	Drainage pipe	inch	/	/
Dimensions(W × D × H)	Outline	mm	621 × 561 × 1760	621 × 561 × 2030
	Packaged	mm	731 × 717 × 1845	731 × 717 × 2110
Net wight/Gross weight		kg	92/112	102.5/122.5
Loading quantity	40'GP/40'HQ	unit	48/48	48/48
Material of inner tank		-	Enamel	Enamel
Made of defending cauterization		-	Electronical anode	Electronical anode

Note: Gree reserves the right to modify the specifications without prior notice. Please confirm the final specifications with sales representatives.

Heat Pump Pool Heater

GREE swimming pool heat pump adopts eco-friendly refrigerant R32, DC inverter compressor, DC fan, electronic expansion valve (EEV), corrosion-resistant titanium tube heat exchanger, high weather-resistant coating shell, gold corrosion-resistant fin, realizing adjustable load during operation, energy saving and efficiency. The product has obtained CE certification, meets Rohs requirements. It has heating, cooling, automatic mode and humanized functions such as fast, intelligent, energy-saving, timing, WiFi for users to choose.

With heating capacity ranging from 2.2 to 18.8kW, it is suitable for a family swimming pool holding the water of 20m³ to 95m³. The daily water for swimming and SPA water temperature can be kept respectively between 26~30℃ and below 40℃.

Inner groove copper
Weekly timer
Comprehensive protection
24 hour timer
Child lock
Wide operation range
Wide voltage range
Self-diagnosis
Memory function
Intelligent defrosting
℃/℉ switch
Clock display
Golden fin condenser

》Low GWP675, R32 eco-friendly refrigerant（ODP=0，GWP=675）.

》Inverter design. DC inverter compressor + DC fan + electronic expansion valve, realizing constant water temperature control (adjusting precision is up to 0.5℃), and operating energy efficiency under high-temperature heating working condition can be up to 10 or above.

》Anti-corrosion and low flow resistance heat exchanger and weather-proof designed case. Threaded titanium tube coil heat exchanger has excellent corrosion resistance (can be resistant to seawater corrosion). Meanwhile the shell and tube design greatly reduces the fluid flow resistance, which can effectively reduce the power consumption of circulation pump. The gold anti-corrosion fins are twice the corrosion resistance of the ordinary fins, and the outer case has a high weather-resistant polyester coating.

》Wide application range. The unit can normally operate with voltage range of 180~264V, ambient temperature range of -15~45℃, and water temperature range of 10~40℃, which is applicable to residential swimming pool, hot tub, SPA and related locations.

》Compact structure and simple appearance. Display board embedded panel of standard-fitting integrated WiFi module, and composite design of control panel for saving space and size, realizing modular connecting of outer case.

Model			GRS-CP11Pd/NhA-K	GRS-CP18Pd/NhA-K
High-temperature & high-humidity heating: ambient temperature: 27℃ /80%, 26℃ water inlet	Heating capacity	kW	2.2~11.8	5.5~18.8
	Power input	kW	0.17~2.02	0.50~3.62
	Energy efficiency	—	13.0-5.8	11.0~5.2
Medium-temperature & medium-humidity heating: ambient temperature: 15℃ /70%, 26℃ water inlet	Heating capacity	kW	2.0-8.8	3.0~15.1
	Power input	kW	0.38~1.95	0.50~3.77
	Energy efficiency	—	6.3-4.5	6.0~4.0
Cooling: ambient temperature: 35℃ /-, 30℃ water inlet	Cooling capacity	kW	4.3	7.8
	Power input	kW	1.34	1.95
	Energy efficiency	—	3.2	4.0
Maximum power ①		kW	2.5	4.0
Maximum current ①		A	11.0	17.5
Nominal water flow		m³/h	3.8	6.5
Water resistance		kPa	5	12
Noise ②		dB(A)	52	55
Dimension(W×D×H)	Outline	mm	980×376×554	1085×402×657
	Packaged	mm	1061×423×705	1183×448×805
Net weight/Gross weight		kg	43/52	52.5/62.5
Hydraulic connection		mm	PVC 50/50	
Compressor		—	Hermetic Rotary DC Inverter Compressor	
Fan motor		—	DC Fan Motor	
Refrigerant		—	R32	
Refrigerant charge ③		kg	0.52	0.73
Power supply		—	Single phase 220-240V ~ 50/60Hz	
Protection		—	IPX4	
Max. pool volume ④		m³	75	95
Mode		—	Heating/Cooling/Automatic	
Loading quality(40'GP/40'HQ)		Unit	183/183	100/150

NOTES：
①The above maximum power or maximum current don't include the power or current of external water pump.
②The noise data is the average sound pressure value measured under high temperature and high humidity heating conditions(Dry air 27℃-Relative humidity 80% - Water inlet temperature 26℃) with a distance of 1m away from the unit.
③This parametric is the maximum refrigerant charge amount of the unit.
④The recommended maximum pool volume is based on the ideal heating condition that the pool is well shaded; the filtration system runs for 15h per day, water temperature is maintained at 26℃,and ambient temperature ≥28℃.

AIR-COOLED CHILLER

A Series Inverter Modular Air-cooled Chiller (Heat Pump, R32)

A Series Inverter Modular Air-cooled Chiller Built-inHydraulic Module (Heat Pump, R32)

A Series Inverter Modular Air-cooled Chiller (Heat Pump, R32)

All DC inverter, high efficiency and energy conservation, wide operation range, compact size and modular combination.

Golden fin condenser

Inner groove copper

High efficiency

Intelligent defrosting

Quiet function

Self-diagnosis

Low voltage startup

Weekly timer

Wide operation range

Wide voltage range

Memory function

Compact design

Clock display

Long-distance monitoring

Comprehensive protection

All DC inverter technology

Easier maintainability

Multi fan speed

Modular operating

》All DC inverter compressor and fan, high-efficiency and energy-saving;

》Super quiet and wide operation range;

》Convenient installation, modular combination and smart control;

》With water pump switchover function, for prolonging service life of water pump;

》Remote ON/OFF by one button, convenient for operation.

Note*: This product model is under development. Gree reserves the right to modify the specifications without prior notice. Please confirm the final specifications with sales representatives.

Item	Water side (water temperature)		Air side (Ambient temperature)
	Operating range		Operating range
	Leaving water temperature (℃)	Entering and Leaving water difference temperature(℃)	Dry bulb temperature (℃)
Cooling	5~20	2.5~6	-15~52
Heating	35~50	2.5~6	-20~40

Model			LSQWRF35VM/NhA-M	LSQWRF60VM/NhA-M
Capacity	Cooling/Heating	kW	32/35	60/65
		RT	9.10/9.95	17.06/18.48
Capacity adjustment		%	31.25%~100%	15.63%~100%
EER/COP		W/W	2.74/3.30	2.88/3.27
Power supply		V/Ph/Hz	380-415/3/50	380-415/3/50
Power input	Cooling	kW	11.7	20.8
	Heating	kW	10.6	19.9
Compressor	Type	-	Inverter rotary	Inverter rotary
	Starting mode	-	Inverter starting	Inverter starting
	Quantity	-	1	2
Water side heat exchanger	Type	-	Shell-and-tube dry expansion	Shell-and-tube dry expansion
	Water flow volume	m^3/h	5.50	10.32
		GPM	24	46
	Pressure drop	kPa	80	55
		ft.WG	26.24	18.04
	Connection pipe*	-	DN32	DN50
Air side heat exchanger	Type	-	Aluminum fin-copper tube	Aluminum fin-copper tube
	Fan type andquantity	-	Axial-flow/2	Axial-flow/2
	Total fan airflow	m^3/h	$2\times0.63\times10^4$	$2\times1.2\times10^4$
		CFM	$2\times0.371\times10^4$	$2\times0.707\times10^4$
	Total fan motor power	kW	0.75×2	0.75×2
Sound pressure level		dB(A)	62	68
Dimension (W×D×H)	Outline	mm	1340×845×1605	2200×965×1675
	Package	mm	1420×920×1775	2267×1030×1867
Net/Gross/Operating weight		kg	405/422/445	686/722/755
Loading quantity	40'GP/40'HP	set	16/16	11/11

Remark:
① Working condition of cooling: Leaving chilled water temperature 7℃ ; water flow volume: 0.172 m3/h per kW cooling capacity; outdoor ambient temperature 35℃ (DB).
② Working condition of heating: Leaving water temperature 45℃; water flow volume: 0.172 m3/h per kW cooling capacity; outdoor ambient temperature 7℃ (DB) / 6℃ (WB).
③ For specific parameters, please refer to the product nameplate.
④ For connection pipe*, if the size ≥ DN65, the connector is of flange type; if the size <DN65, the connector is of external thread type.

A Series Inverter Modular Air-cooled Chiller Built-inHydraulic Module (Heat Pump, R32)

INVERTER R32

All DC inverter, high efficiency and energy conservation, wide operation range, compact size and modular combination.

Golden fin condenser

Inner groove copper

High efficiency

Intelligent defrosting

Quiet function

Self-diagnosis

Low voltage startup

Weekly timer

Wide operation range

Wide voltage range

Memory function

Compact design

Clock display

Long-distance monitoring

Comprehensive protection

All DC inverter technology

Easier maintainability

Multi fan speed

Modular operating

》All DC inverter compressor and fan, high-efficiency and energy-saving;

》Super quiet and wide operation range;

》Convenient installation, modular combination and smart control;

》With water pump switchover function, for prolonging service life of water pump;

》Remote ON/OFF by one button, convenient for operation.

Note*: This product model is under development. Gree reserves the right to modify the specifications without prior notice. Please confirm the final specifications with sales representatives.

Item	Water side (water temperature)		Air side (Ambient temperature)
	Operating range		Operating range
	Leaving water temperature (℃)	Entering and Leaving water difference temperature(℃)	Dry bulb temperature (℃)
Cooling	5~20	2.5~6	-15~52
Heating	35~50	2.5~6	-20~40

EUROVENT CERTIFIED PERFORMANCE

CE

Model			LSQWRF35VMP1/NhA-M	LSQWRF60VM/NhA-M
Capacity	Cooling/Heating	kW	33/36	60/65
		RT	9.38/10.24	17.06/18.48
Capacity adjustment		%	15.63%~100%	15.63%~100%
EER/COP		W/W	2.89/3.3	2.84/3.3
Power supply		V/Ph/Hz	380-415V AC 3Ph 50Hz	380-415V AC 3Ph 50Hz
Power input	Cooling	kW	11.4	21.1
	Heating	kW	10.9	19.7
Compressor	Type	-	Inverter rotary	Inverter rotary
	Starting mode	-	Inverter	Inverter
	Quantity	-	1	2
Water side heat exchanger	Type	-	Plate-type heat exchanger	Plate-type heat exchanger
	Water flow volume	m^3/h	5.68	10.32
		GPM	25	46
	Connection pipe*	-	DN32	DN50
Air side heat exchanger	Type	-	Aluminum fin-copper tube	Aluminum fin-copper tube
	Fan type andquantity	-	Axial-flow/2	Axial-flow/2
	Total fan airflow	m^3/h	$2\times0.63\times10^4$	$2\times1.20\times10^4$
		CFM	$2\times0.371\times10^4$	$2\times0.707\times10^4$
	Total fan motor power	kW	750×2	0.75×2
Built-in chilled water pump	Pump power input	kW	0.55	1.1
	Pump lift	m	24	25.5
Head pressure available (cooling)		Kpa	165	210
		ft.WG	54.12	68.88
Head pressure available (cooling)		Kpa	140	187
		ft.WG	45.920	61.336
Built-in expansion vessel volume		L	8	12
Sound pressure level		dB(A)	62	68
Dimension (W×D×H)	Outline	mm	1340×802×1605	2200×937×1675
	Package	mm	1420×905×1775	2267×1030×1867
Net/Gross/Operating weight		kg	323/340/355.3	609/645/669.9
Loading quantity	40'GP/40'HP	set	16/16	11/11

Remark:
① Working condition of cooling: Leaving chilled water temperature 7℃ ; water flow volume: 0.172 m3/h per kW cooling capacity; outdoor ambient temperature 35℃ (DB).
② Working condition of heating: Leaving water temperature 45℃ ; water flow volume: 0.172 m3/h per kW cooling capacity; outdoor ambient temperature 7℃ (DB) / 6℃ (WB).
③ For specific parameters, please refer to the product nameplate.
④ For connection pipe*, if the size ⩾ DN65, the connector is of flange type; if the size <DN65, the connector is of external thread type.

SCREW CHILLER

High-efficiency Modular Air -cooled Screw Chiller

Permanent Magnetic Synchronous Inverter Water-cooled Screw Chiller

High-efficiency Modular Air-cooled Screw Chiller R134a

It is a kind of high-efficiency air-cooled screw chillers that can be connected to all sorts of fan coil units to realize cooling/heating for civil or industrial buildings.

Golden fin condenser | Inner groove copper tube | Comprehensive protection | Self-diagnosis | Memory function | 24 hour timer | Long-distance monitoring | High efficiency | Intelligent defrosting | Modular structure

》Thanks to V-type fin structure, the unit features small refrigerant pressure loss and high efficiency.

》With flooded type shell-and-tube design, evaporating temperature is increased, hence improving the heat exchanging efficiency and energy efficiency.

》The unit adopts low noise fan blades and specialized compressor noise reduction device; therefore sound level falls to 5dB(A) lower than the 2nd generation.

》Due to the totally-enclosed design, its appearance is harmonious and nice-looking.

Item	Water side (water temperature)				Air side (outdoor temperature)		
	Nominal operating condition		Operating range		Nominal operating condition		Operating range
	Inlet(℃)	Outlet(℃)	Outlet(℃)	I/O difference(℃)	DB(℃)	WB(℃)	DB(℃)
Cooling	12	7	5~15	2.5~8	35	—	18~52

Model	Cooling only		LMEA30JD3E/Nb-M	LMEB30JD2E/Nb-M	LMEA40LE5E/Nb-M	LMEB40LE4E/Nb-M	LMEA50LE3E/Nb-M	LMEB50LE2E/Nb-M
Capacity	Cooling	kW	320	350	420	470	520	580
		TR	91.0	99.5	119.4	133.6	147.9	164.9
Capacity steps		%	25%,50%~100%	25%,50%~100%	25%,50%~100%	25%,50%~100%	25%,50%~100%	25%,50%~100%
EER		W/W	3.20	3.24	3.23	3.22	3.21	3.22
Power supply		V/Ph/Hz	380V/3N~/50Hz	380V/3N~/50Hz	380V/3N~/50Hz	380V/3N~/50Hz	380V/3N~/50Hz	380V/3N~/50Hz
Power input	Cooling	kW	100	108	130	146	162	180
Compressor	Type	-	Semi-hermetic screw	Semi-hermetic screw	Semi-hermetic screw	Semi-hermetic screw	Semi-hermetic screw	Semi-hermetic screw
	Starting mode	-	Star delta start	Star delta start	Star delta start	Star delta start	Star delta start	Star delta start
	Quantity	-	1	1	1	1	1	1
Refrigerant	Type	-	R134a	R134a	R134a	R134a	R134a	R134a
Water side heat exchanger	Type	-	Flooded evaporator	Flooded evaporator	Flooded evaporator	Flooded evaporator	Flooded evaporator	Flooded evaporator
	Water flow volume	m^3/h	55.0	60.2	72.2	80.8	89.4	99.8
		GPM	243	265	319	356	394	440
	Pressure drop	kPa	⩽35	⩽35	⩽45	⩽45	⩽45	⩽45
		ft.WG	⩽11.5	⩽11.5	⩽14.8	⩽14.8	⩽14.8	⩽14.8
	Connection pipe	-	DN100	DN100	DN125	DN125	DN125	DN125
Air side heat exchanger	Type	-	Aluminum fin-copper tube					
	Total fan air flow	m^3/h	19500×6	21500	19500×8	21500×8	19500×10	21500×10
		CFM	11477×6	12654	11477×8	12654×8	11477×10	12654×10
	Total fan motor power	kW	1.5×6	1.8×6	1.5×8	1.8×8	1.5×10	1.8×10
Dimension	Outline(W×D×H)	mm	3820×2330×2550	3820×2330×2550	5040×2330×2550	5040×2330×2550	6110×2250×2550	6110×2250×2550
	Package(W×D×H)	mm	3820×2330×2550	3820×2330×2550	5040×2330×2550	5040×2330×2550	6260×2330×2550	6260×2330×2550
Net/Gross/ Operting weight	Cooling only	kg	4130/4170/4213	4310/4350/4396	5210/5250/5314	5515/5555/5625	5980/6020/6100	6240/6280/6365
Loading quantity	40'GP/40'HQ	unit	0/2	0/2	0/2	0/2	0/1	0/1

Note: The parameters are estimated. Please refer to the data on the nameplate.

Model	Cooling only		LMEA33LF8E/ Nb-M	LMEB33LF6E/ Nb-M	LMEB43LF7E/ Nb-M	LMEB43LF5E/ Nb-M	LMEA44NF4E/ Nb-M	LMEB44NF2E/ Nb-M
Capacity	Cooling	kW	650	700	750	820	860	940
		TR	184.8	199.1	213.3	233.2	244.5	267.3
Capacity steps		%	12.5%,25%~100%	12.5%,25%~100%	12.5%,25%~100%	12.5%,25%~100%	12.5%,25%~100%	12.5%,25%~100%
EER		W/W	3.25	3.24	3.19	3.22	3.25	3.24
Power supply		V/Ph/Hz	380V/3N~/50Hz	380V/3N~/50Hz	380V/3N~/50Hz	380V/3N~/50Hz	380V/3N~/50Hz	380V/3N~/50Hz
Power input	Cooling	kW	200	216	235	255	265	290
Compressor	Type	-	Semi-hermetic screw	Semi-hermetic screw	Semi-hermetic screw	Semi-hermetic screw	Semi-hermetic screw	Semi-hermetic screw
	Starting mode	-	Star delta start	Star delta start	Star delta start	Star delta start	Star delta start	Star delta start
	Quantity	-	2	2	2	2	2	2
Refrigerant	Type	-	R134a	R134a	R134a	R134a	R134a	R134a
Water side heat e×changer	Type	-	Flooded evaporator	Flooded evaporator	Flooded evaporator	Flooded evaporator	Flooded evaporator	Flooded evaporator
	Water flow volume	m^3/h	111.8	120.4	129.0	141.0	147.9	161.7
		GPM	493	531	569	622	652	713
	Pressure drop	kPa	⩽55	⩽55	⩽55	⩽55	⩽65	⩽60
		ft.WG	⩽18.0	⩽18.0	⩽18.0	⩽18.0	⩽21.3	⩽19.7
	Connection pipe	-	DN150	DN150	DN150	DN150	DN150	DN150
Water side heat exchanger	Type	-	Aluminum fin-copper tube	Aluminum fin-copper tube	Aluminum fin-copper tube	Aluminum fin-copper tube	Aluminum fin-copper tube	Aluminum fin-copper tube
	Total fan air flow	m^3/h	19500×12	21500×12	19500×14	21500×14	19500×16	21500×16
		CFM	11477×12	12654×12	11477×14	12654×14	11477×16	12654×16
	Total fan motor power	kW	1.5×12	1.8×12	1.5×14	1.8×14	1.5×16	1.8×16
Dimension	Outline(W×D×H)	mm	7340×2250×2550	7340×2250×2550	8560×2250×2550	8560×2250×2550	9780×2250×2550	9780×2250×2550
	Package(W×D×H)	mm	7490×2330×2550	7490×2330×2550	8710×2330×2550	8710×2330×2550	9930×2330×2550	9930×2330×2550
Net/Gross/Operting Weight		kg	7920/7960/8078	8120/8160/8282	8350/8390/8517	9110/9150/9292	9860/9900/10057	9970/10010/10169
Loading quantity	40'GP/40'HQ	set	0/1	0/1	0/1	0/1	0/1	0/1

Note: The parameters are estimated. Please refer to the data on the nameplate.

Model	Cooling only		LMEB54NG2E/ Nb-M	LMEB33LF650LE2E/ Nb-M	LMEB33LF633LF6E/ Nb-M	LMEB33LF643LF5E/ Nb-M	LMEB43LF543LF5E/ Nb-M
Capacity	Cooling	kW	1050	1280	1400	1500	1650
		TR	298.6	364.0	398.1	426.5	469.2
Capacity steps		%	12.5%,25%~100%	8.3%,16.7%~100%	6.25%,12.5%~100%	6.25%,12.5%~100%	6.25%,12.5%~100%
EER		W/W	3.23	3.20	3.22	3.23	3.20
Power supply		V/Ph/Hz	380V/3N~/50Hz	380V/3N~/50Hz	380V/3N~/50Hz	380V/3N~/50Hz	380V/3N~/50Hz
Power input	Cooling	kW	325	400	435	465	515
Compressor	Type	-	Semi-hermetic screw	Semi-hermetic screw	Semi-hermetic screw	Semi-hermetic screw	Semi-hermetic screw
	Starting mode	-	Star delta start	Star delta start	Star delta start	Star delta start	Star delta start
	Quantity	-	2	3	4	4	4
Refrigerant	Type	-	R134a	R134a	R134a	R134a	R134a
Water side heat exchanger	Type	-	Flooded evaporator	Flooded evaporator	Flooded evaporator	Flooded evaporator	Flooded evaporator
	Water flow volume	m^3/h	180.6	220.2	240.8	258.0	283.8
		GPM	796	971	1062	1138	1251
	Pressure drop	kPa	⩽70	⩽55	⩽60	⩽60	⩽60
		ft.WG	⩽23.0	⩽18.0	⩽19.7	⩽19.7	⩽19.7
	Connection pipe	-	DN150	DN150+DN125	2×DN150	2×DN150	2×DN150
Air side heat exchanger	Type	-	Aluminum fin-copper tube	Aluminum fin-copper tube	Aluminum fin-copper tube	Aluminum fin-copper tube	Aluminum fin-copper tube
	Total fan air flow	m^3/h	21500×18	21500×22	21500×24	21500×26	21500×28
		CFM	12654×18	12654×22	12654×24	12654×26	12654×28
	Total fan motor power	kW	1.8×18	1.8×22	1.8×24	1.8×26	1.8×28
Dimension	Outline(W×D×H)	mm	11000×2250×2550	13450×2250×2550	14670×2250×2550	15890×2250×2550	17120×2250×2550
	Package(W×D×H)	mm	11150×2330×2550	13600×2330×2550	14820×2330×2550	16040×2330×2550	17270×2330×2550
Net/Gross/Operting Weight		kg	11150/11230/11373	14470/14550/14759	15840/15920/16157	17140/17220/17483	18470/18550/18839
Loading quantity	40'GP/40'HQ	set	0/1	0/0	0/0	0/0	0/0

Note: The parameters are estimated. Please refer to the data on the nameplate.
LMEB33LF850LE3E/Nb-M~LMEB43LF543LF5E/Nb-Mcan be splitted into two parts and will be transported separately.

Model	Cooling only		LMED50 LE18E/Nb-M	LMED33 LF644E/Nb-M	LMED43 LF564E/Nb-M	LMED44 NF266E/Nb-M	LMED54 NG276E/Nb-M	LME50LE2750 LE27E/Nb-M	LME50LE1850 LE18E/Nb-M
Capacity	Cooling	kW	808	898	1023	1148	1318	1488	1617
		TR	229.8	255.4	290.9	326.4	374.8	423.1	459.8
Capacity steps		%	25%,50%~100%	12.5%,25%~100%	12.5%,25%~100%	25%,50%~100%	25%,50%~100%	25%,50%~100%	12.5%,25%~100%
EER		W/W	3.00	3.10	3.10	3.19	3.10	3.10	3.10
Power supply		V/Ph/Hz	380V/3N~/50Hz	380V/3N~/50Hz	380V/3N~/50Hz	380V/3N~/50Hz	380V/3N~/50Hz	380V/3N~/50Hz	380V/3N~/50Hz
Power input	Cooling	kW	269	290	330	360	425	480	522
Compressor	Type	-	Semi-hermetic screw	Semi-hermetic screw	Semi-hermetic screw	Semi-hermetic screw	Semi-hermetic screw	Semi-hermetic screw	Semi-hermetic screw
	Starting mode	-	Star delta start	Star delta start	Star delta start	Star delta start	Star delta start	Star delta start	Star delta start
	Quantity	-	1	2	2	2	2	2	2
Refrigerant	Type	-	R134a	R134a	R134a	R134a	R134a	R134a	R134a
Water side heat exchanger	Type	-	Flooded evaporator	Flooded evaporator	Flooded evaporator	Flooded evaporator	Flooded evaporator	Flooded evaporator	Flooded evaporator
	Water flow volume	m^3/h	139.0	154.5	176.0	197.5	226.7	255.9	278.1
		GPM	613	681	776	871	1000	1128	1226
	Pressure drop	kPa	⩽55	⩽60	⩽65	⩽70	⩽75	⩽80	⩽80
		ft.WG	⩽18.0	⩽19.7	⩽21.3	⩽23.0	⩽24.6	⩽26.2	⩽26.2
	Connection pipe	-	DN150	DN150	DN200	DN200	DN200	2×DN150	2×DN150
Air side heat exchanger	Type	-	Aluminum fin-copper tube	Aluminum fin-copper tube	Aluminum fin-copper tube	Aluminum fin-copper tube	Aluminum fin-copper tube	Aluminum fin-copper tube	Aluminum fin-copper tube
	Total fan air flow	m^3/h	26000×10	26000×12	26000×14	26000×16	26000×18	26000×20	26000×20
		CFM	15304×10	15304×12	15304×14	15304×16	15304×18	15304×20	15304×20
	Total fan motor power	kW	2.8×10	2.8×12	2.8×14	2.8×16	2.8×18	2.8×20	2.8×20
Dimension	Outline(W×D×H)	mm	6110×2250×2550	7340×2250×2550	8560×2250×2550	9780×2250×2550	11000×2250×2550	12230×2250×2550	12230×2250×2550
	Package(W×D×H)	mm	6260×2330×2550	7490×2330×2550	8710×2330×2550	9930×2330×2550	11150×2330×2550	12380×2330×2550	12380×2330×2550
Net/Gross/Operting Weight		kg	6440/6480/6569	8600/8640/8772	9645/9685/9838	10610/10650/10822	11385/11425/11613	12800/12880/13056	12880/12960/13138
Loading quantity	40'GP/40'HQ	set	0/1	0/1	0/1	0/1	0/1	0/0	0/0

Note：Working condition of cooling: Leaving chilled water temperature 7℃ , water flow volume: 0.172 m3/h per kW cooling capacity, outdoor ambient temperature 35℃ (DB).

Model	Cooling only		LMEB30JD33/ Nb-M	LMED30JD24/ Nb-M	LMED30JD24E/ Nb-M	LMED40LE56/ Nb-M	LMED40LE46E/ Nb-M	LMED50LE37/ Nb-M	LMED50LE27E/ Nb-M
Capacity	Cooling	kW	358	408	448	518	573	678	743
		TR	101.8	116.0	127.4	147.3	162.9	192.8	211.3
Capacity steps		%	25%,50%~100%	25%,50%~100%	25%,50%~100%	25%,50%~100%	25%,50%~100%	25%,50%~100%	25%,50%~100%
EER		W/W	3.17	3.11	3.11	3.18	3.18	3.18	3.11
Power supply		V/Ph/Hz	380V/3N~/50Hz	380V/3N~/50Hz	380V/3N~/50Hz	380V/3N~/50Hz	380V/3N~/50Hz	380V/3N~/50Hz	380V/3N~/50Hz
Power input	Cooling	kW	113	131	144	163	180	213	239
Compressor	Type	-	Semi-hermetic screw	Semi-hermetic screw	Semi-hermetic screw	Semi-hermetic screw	Semi-hermetic screw	Semi-hermetic screw	Semi-hermetic screw
	Starting mode	-	Star delta start	Star delta start	Star delta start	Star delta start	Star delta start	Star delta start	Star delta start
	Quantity	-	1	1	1	1	1	1	1
Refrigerant	Type	-	R134a	R134a	R134a	R134a	R134a	R134a	R134a
Water side heat exchanger	Type	-	Flooded evaporator	Flooded evaporator	Flooded evaporator	Flooded evaporator	Flooded evaporator	Flooded evaporator	Flooded evaporator
	Water flow volume	m^3/h	61.6	70.2	77.1	89.1	98.6	116.6	127.8
		GPM	271	309	340	393	435	514	563
	Pressure drop	kPa	⩽35	⩽45	⩽45	⩽45	⩽50	⩽55	⩽55
		ft.WG	⩽11.5	⩽14.8	⩽14.8	⩽14.8	⩽16.4	⩽18.0	⩽18.0
	Connection pipe	-	DN125	DN125	DN125	DN125	DN125	DN150	DN150
Air side heat exchanger	Type	-	Aluminum fin-copper tube	Aluminum fin-copper tube	Aluminum fin-copper tube	Aluminum fin-copper tube	Aluminum fin-copper tube	Aluminum fin-copper tube	Aluminum fin-copper tube
	Total fan air flow	m^3/h	24000×6	26000×6	26000×6	24000×8	26000×8	24000×10	26000×10
		CFM	14126×6	15304×6	15304×6	14126×8	15304×8	14126×10	15304×10
	Total fan motor power	kW	2.2×6	2.8×6	2.8×6	2.2×8	2.8×8	2.2×10	2.8×10
Dimension	Outline(W×D×H)	mm	3670×2250×2550	3670×2250×2550	3670×2250×2550	4890×2250×2550	4890×2250×2550	6110×2250×2550	6110×2250×2550
	Package(W×D×H)	mm	3820×2330×2550	3820×2330×2550	3820×2330×2550	5040×2330×2550	5040×2330×2550	6260×2330×2550	6260×2330×2550
Net/Gross/Operting Weight		kg	4500/4540/4590	4410/4450/4498	4570/4610/4661	5545/5595/5656	5585/5625/5697	6270/6310/6395	6400/6440/6528
Loading quantity	40'GP/40'HQ	set	0/2	0/2	0/2	0/2	0/2	0/1	0/1

Note: The parameters are estimated. Please refer to the data on the nameplate.

Permanent Magnetic Synchronous Inverter Water-cooled Screw Chiller

LHVE Series

Gree LHVE-S series VFD water-cooled screw chiller is a innovative product with balance install and operation cost, with features of high reliability, compact structure and easy maintenance. LHVE-P is a higher-efficiency series upgraded on LHVE-S series. The capacity under nominal working condition ranges from 100 to 700RT.

High-efficiency and energy-saving | Energy-saving and eco-friendly | Compact design | Easier maintainability | Efficient oil return | High-quality parts | Microcomputer control | Long-distance monitoring | Intelligent service

》 Adjust the load with rotate speed to realize consecutive adjustment of 10%-100% of one single compressor load;

》 The consecutive adjustment structure of discharge volume can adjust the discharge volume according to actual operation condition, realizing consistent internal and external pressure ratio; heat insulation of compressor has enhanced about 8.4%;

》 Under some load conditions, lower the operation power of compressor, which can be up to 60%.

》 Adopt GEX-V rotor profile design, complete free-form sealing, reduced leakage triangle, and effectively improve the adiabatic efficiency by more than 5%.

》 Drive point is set in both high and low pressure side; the male and female rotor will increase/decrease speed at the same time, ensuring a stable mesh.

》 The permanent magnetic synchronous motor adopts the built-in method of V-shape magnetic steel, by taking advantage of the saliency effect of magnetic circuit, it enhances the motor torque;

》 By adopting inverter startup, the starting current is below 10A; the impact to the overall power grid is small;

》 Under full load working condition, motor efficiency is above 95%; under rated power, compared with traditional; 3-phase asynchronous motor, it has enhanced by 3%; for some other loads, it has enhanced by 5% ~ 7%.

》 The control circuit adopts 24V full DC electronic control component, which effectively reduces electromagnetic nterference, safe and reliable;

Operating range	Chilled water		Cooling water	
	Water outlet temperature (℃)	Temperature difference of water inlet and outlet(℃)	Water inlet temperature(℃)	Temperature difference of water inlet and outlet(℃)
Cooling	4~15	2.5-10	18-35	3.5-10

LHVE-S Series

Model			LHVE542DD3ED4/Nb	LHVE542DD2ED3/Nb	LHVE542ED4ED2/Nb	LHVE642EE6EEA/Nb	LHVE742EE5FEC/Nb	LHVE772FE6FEB/Nb
Cooling capacity		kW	351.6	439.5	527.4	615.3	703.2	791.1
		RT	100.0	125.0	150.0	175.0	200.0	225.0
Capacity adjustment range		%	10%-100%	10%-100%	10%-100%	10%-100%	10%-100%	10%-100%
COP		W/W	6.01	6.00	5.98	6.07	6.15	6.09
IPLV		W/W	8.57	8.55	8.54	8.59	8.71	8.64
Power supply	-M	Ph,V,Hz	380V 3~ 50Hz	380V 3~ 50Hz	380V 3~ 50Hz	380V 3~ 50Hz	380V 3~ 50Hz	380V 3~ 50Hz
Power input		kW	58.5	73.2	88.2	101.4	114.4	130.0
Compressor	Type	-	Semi-hermetic dual screw					
	Starting mode	-	VFD	VFD	VFD	VFD	VFD	VFD
	Quantity	-	1	1	1	1	1	1
Refrigerant	Charge volume	kg	90	115	125	150	175	195
	Type	-	R134a	R134a	R134a	R134a	R134a	R134a
Oil charge volume		L	13	13	13	18	18	18
Evaporator	Type	-	Falling film evaporator					
	Fouling factor	m^2·℃ /kW	0.0176	0.0176	0.0176	0.0176	0.0176	0.0176
	Water flow rate	m^3/h	60	76	91	106	121	136
		GPM	266	333	399	466	533	599
	Pressure drop	kPa	52.4	52.2	52.8	62.4	66.2	76.0
		ft.WG	17.2	17.1	17.3	20.5	21.7	24.9
	Connection pipe	mm	DN100	DN100	DN125	DN125	DN150	DN150
Condenser	Type	-	Horizontal shell and tube condenser					
	Fouling factor	m^2·℃ /kW	0.0440	0.0440	0.0440	0.0440	0.0440	0.0440
	Water flow rate	m^3/h	76	94	113	132	151	170
		GPM	333	416	499	582	666	749
	Pressure drop	kPa	51.9	52.3	55.4	51.7	50.2	54.6
		ft.WG	17.0	17.2	18.2	17.0	16.5	17.9
	Connection pipe	mm	DN125	DN125	DN125	DN150	DN150	DN150
Sound pressure level		dB(A)	81.2	83.5	84.5	85.3	86.3	86.8
Dimension (WxDxH)	Outline	mm	2950x1160x2070	2950x1160x2070	2950x1160x2070	3290x1200x2100	3290x1250x2200	3300x1520x1800
	Package	mm	3000x1210x2170	3000x1210x2170	3000x1210x2170	3340x1250x2200	3340x1300x2300	3350x1570x1900
Net/gross/operating weight		kg	2800/2900/2990	2850/2950/3070	2930/3030/3150	3020/3120/3320	3450/3550/3770	3810/3910/4150

Model			LHVE772FE5GEC/Nb	LHVE772GE8GEB/Nb	LHVE872GE7GEA/Nb	LHVE872GGBHGC/Nb	LHVE642HIPJIP-2/Nb	LHVE742HINJIM-2/Nb
Cooling capacity		kW	879.0	966.9	1055.0	1231.0	1231.0	1406.0
		RT	250.0	275.0	300.1	350.1	350.1	399.9
Capacity adjustment range		%	10%-100%	10%-100%	10%-100%	10%-100%	10%-100%	5%-100%
COP		W/W	6.16	6.16	6.18	6.14	6.17	6.19
IPLV		W/W	8.75	8.74	8.77	8.64	8.70	8.73
Power supply	-M	Ph,V,Hz	380V 3~ 50Hz	380V 3~ 50Hz	380V 3~ 50Hz	380V 3~ 50Hz	380V 3~ 50Hz	380V 3~ 50Hz
Power input		kW	142.6	157.0	170.6	200.5	199.5	227.1
Compressor	Type	-	Semi-hermetic dual screw					
	Starting mode	-	VFD	VFD	VFD	VFD	VFD	VFD
	Quantity	-	1	1	1	1	1	2
Refrigerant	Charge volume	kg	205	230	235	270	280	290
	Type	-	R134a	R134a	R134a	R134a	R134a	R134a
Oil charge volume		L	23	23	28	28	35	36
Evaporator	Type	-	Falling film evaporator					
	Fouling factor	m^2·℃ /kW	0.0176	0.0176	0.0176	0.0176	0.0176	0.0176
	Water flow rate	m^3/h	151	166	181	212	212	242
		GPM	666	732	799	932	932	1065
	Pressure drop	kPa	76.0	77.5	76.0	65.1	70.2	71.5
		ft.WG	24.9	25.4	24.9	21.4	23.0	23.5
	Connection pipe	mm	DN150	DN150	DN150	DN200	DN200	DN200
Condenser	Type	-	Horizontal shell and tube condenser					
	Fouling factor	m^2·℃ /kW	0.0440	0.0440	0.0440	0.0440	0.0440	0.0440
	Water flow rate	m^3/h	189	208	227	265	265	302
		GPM	832	915	999	1165	1165	1331
	Pressure drop	kPa	55.0	54.7	53.8	67.4	61.3	62.3
		ft.WG	18.0	17.9	17.6	22.1	20.1	20.4
	Connection pipe	mm	DN200	DN200	DN200	DN200	DN200	DN200
Sound pressure level		dB(A)	87.4	88.3	89.2	89.8	90.2	86.8
Dimension (WxDxH)	Outline	mm	3330x1610x1870	3350x1650x1900	3350x1650x1900	3760x1930x2000	4450x1830x2050	4450x1830x2050
	Package	mm	3380x1660x1970	3400x1700x2000	3400x1700x2000	3810x1980x2100	4500x1880x2150	4500x1880x2150
Net/gross/operating weight		kg	4200/4300/4530	4450/4550/4820	4770/4870/5200	5660/5760/6160	6650/6750/7300	7010/7160/7440

Model			LHVE772HIMKIN-2/Nb	LHVE772HILKIL-2/Nb	LHVE772JIPLIL-2/Nb	LHVE872JINMIP-2/Nb	LHVE872KINMIK-2/Nb
Cooling capacity		kW	1582	1758	1934	2110	2461
		RT	449.9	500.0	550.1	600.1	699.9
Capacity adjustment range		%	5%-100%	5%-100%	5%-100%	5%-100%	5%-100%
COP		W/W	6.15	6.20	6.20	6.21	6.19
IPLV		W/W	8.69	8.76	8.76	8.77	8.76
Power supply	-M	Ph,V,Hz	380V 3~ 50Hz	380V 3~ 50Hz	380V 3~ 50Hz	380V 3~ 50Hz	380V 3~ 50Hz
Power input		kW	257.2	283.6	312.0	339.9	397.3
Compressor	Type	-	Semi-hermetic dual screw				
	Starting mode	-	VFD	VFD	VFD	VFD	VFD
	Quantity	-	2	2	2	2	2
Refrigerant	Charge volume	kg	340	360	420	460	560
	Type	-	R134a	R134a	R134a	R134a	R134a
Oil charge volume		L	36	46	46	56	56
Evaporator	Type	-	Falling film evaporator				
	Fouling factor	m^2·℃ /kW	0.0176	0.0176	0.0176	0.0176	0.0176
	Water flow rate	m^3/h	272	302	333	363	423
		GPM	1198	1331	1465	1598	1864
	Pressure drop	kPa	77.3	77.0	78.3	76.4	77.2
		ft.WG	25.4	25.3	25.7	25.1	25.3
	Connection pipe	mm	DN200	DN200	DN250	DN250	DN250
Condenser	Type	-	Horizontal shell and tube condenser				
	Fouling factor	m^2·℃ /kW	0.0440	0.0440	0.0440	0.0440	0.0440
	Water flow rate	m^3/h	340	378	416	454	529
		GPM	1498	1664	1831	1997	2330
	Pressure drop	kPa	66.8	68.4	67.6	65.9	67.4
		ft.WG	21.9	22.4	22.2	21.6	22.1
	Connection pipe	mm	DN250	DN250	DN250	DN250	DN250
Sound pressure level		dB(A)	89.1	90.5	91.3	91.6	91.8
Dimension (WxDxH)	Outline	mm	4500x1850x2100	4500x1850x2100	4500x1950x2150	4500x2000x2200	4500x2150x2200
	Package	mm	4550x1900x2200	4550x1900x2200	4550x2000x2250	4550x2050x2300	4550x2200x2300
Net/gross/operating weight		kg	7400/7550/8180	7680/7830/8530	8050/8200/9010	8900/9050/9950	10050/10200/11250

LHVE-P Series

Model			LHVE542DD4ED3/Nb	LHVE542DE5EE2/Nb	LHVE542EE4EE1/Nb	LHVE642EE5FE2/Nb	LHVE742FE8GE7/Nb	LHVE772FE4GE5/Nb
Cooling capacity		kW	351.6	439.5	527.4	615.3	703.2	791.1
		RT	100.0	125.0	150.0	175.0	200.0	225.0
Capacity adjustment range		%	10%-100%	10%-100%	10%-100%	10%-100%	10%-100%	10%-100%
COP		W/W	6.25	6.23	6.18	6.29	6.28	6.35
IPLV		W/W	8.84	8.80	8.75	8.89	8.89	8.99
Power supply	-M	Ph,V,Hz	380V 3~ 50Hz	380V 3~ 50Hz	380V 3~ 50Hz	380V 3~ 50Hz	380V 3~ 50Hz	380V 3~ 50Hz
Power input		kW	56.3	70.5	85.3	97.8	112.0	124.5
Compressor	Type	-	Semi-hermetic dual screw					
	Starting mode	-	VFD	VFD	VFD	VFD	VFD	VFD
	Quantity	-	1	1	1	1	1	1
Refrigerant	Charge volume	kg	100	120	150	175	195	205
	Type	-	R134a	R134a	R134a	R134a	R134a	R134a
Oil charge volume		L	13	13	13	18	18	18
Evaporator	Type	-	Falling film evaporator					
	Fouling factor	$m^2 \cdot ℃ /kW$	0.0176	0.0176	0.0176	0.0176	0.0176	0.0176
	Water flow rate	m^3/h	60	76	91	106	121	136
		GPM	266	333	399	466	533	599
	Pressure drop	kPa	42.5	52.3	58.7	53.0	58.3	55.4
		ft.WG	13.9	17.2	19.3	17.4	19.1	18.2
	Connection pipe	mm	DN100	DN100	DN125	DN150	DN150	DN150
Condenser	Type	-	Horizontal shell and tube condenser					
	Fouling factor	$m^2 \cdot ℃ /kW$	0.0440	0.0440	0.0440	0.0440	0.0440	0.0440
	Water flow rate	m^3/h	76	94	113	132	151	170
		GPM	333	416	499	582	666	749
	Pressure drop	kPa	35.7	44.9	50.4	45.8	48.9	50.8
		ft.WG	11.7	14.7	16.5	15.0	16.0	16.7
	Connection pipe	mm	DN125	DN125	DN125	DN150	DN150	DN150
Sound pressure level		dB(A)	81.2	83.5	84.5	85.3	86.3	86.8
Dimension (WxDxH)	Outline	mm	2950x1160x2070	3290x1160x2070	3290x1160x2070	3290x1250x2150	3300x1650x1860	3300x1650x1860
	Package	mm	3000x1210x2170	3340x1210x2170	3340x1210x2170	3340x1300x2250	3350x1700x1960	3350x1700x1960
Net/gross/operating weight		kg	2850/2950/3080	2910/3010/3100	3060/3160/3250	3430/3530/3710	4010/4110/4350	4170/4270/4510

Model			LHVE772GE7HE3/Nb	LHVE772GE6HE2/Nb	LHVE872GG5JGD/Nb	LHVE872GG4JGC/Nb	LHVE642HIFJID-2/Nb	LHVE742HIEJIB-2/Nb
Cooling capacity		kW	879.0	966.9	1055	1231	1231	1406
		RT	250.0	275.0	300.1	350.1	350.1	399.9
Capacity adjustment range		%	10%-100%	10%-100%	10%-100%	10%-100%	10%-100%	5%-100%
COP		W/W	6.36	6.36	6.42	6.37	6.38	6.40
IPLV		W/W	9.00	9.00	9.09	8.98	9.04	9.06
Power supply	-M	Ph,V,Hz	380V 3~ 50Hz	380V 3~ 50Hz	380V 3~ 50Hz	380V 3~ 50Hz	380V 3~ 50Hz	380V 3~ 50Hz
Power input		kW	138.2	152.0	164.3	193.3	193.1	219.8
Compressor	Type	-	Semi-hermetic dual screw					
	Starting mode	-	VFD	VFD	VFD	VFD	VFD	VFD
	Quantity	-	1	1	1	1	1	2
Refrigerant	Charge volume	kg	215	230	235	270	280	290
	Type	-	R134a	R134a	R134a	R134a	R134a	R134a
Oil charge volume		L	23	23	28	28	35	36
Evaporator	Type	-	Falling film evaporator					
	Fouling factor	$m^2 \cdot ℃ /kW$	0.0176	0.0176	0.0176	0.0176	0.0176	0.0176
	Water flow rate	m^3/h	151	166	181	212	212	242
		GPM	666	732	799	932	932	1065
	Pressure drop	kPa	57.5	58.0	70.7	86.2	83.6	90.4
		ft.WG	18.9	19.0	23.2	28.3	27.4	29.7
	Connection pipe	mm	DN150	DN150	DN200	DN200	DN200	DN200
Condenser	Type	-	Horizontal shell and tube condenser					
	Fouling factor	$m^2 \cdot ℃ /kW$	0.0440	0.0440	0.0440	0.0440	0.0440	0.0440
	Water flow rate	m^3/h	189	208	227	265	265	302
		GPM	832	915	999	1165	1165	1331
	Pressure drop	kPa	49.1	49.0	49.8	51.7	81.1	80.5
		ft.WG	16.1	16.1	16.3	17.0	26.6	26.4
	Connection pipe	mm	DN200	DN200	DN200	DN200	DN200	DN200
Sound pressure level		dB(A)	87.4	88.3	89.2	89.8	90.2	86.8
Dimension (WxDxH)	Outline	mm	3350x1700x1950	3350x1700x1950	3760x1950x2050	3760x1950x2050	4450x1830x2050	4450x1830x2050
	Package	mm	3400x1750x2050	3400x1750x2050	3810x2000x2150	3810x2000x2150	4500x1880x2150	4500x1880x2150
Net/gross/operating weight		kg	4800/4900/5100	4870/4970/5250	6100/6200/6500	5020/5120/6650	6750/6850/7290	7110/7260/7680

Model			LHVE672HICKIC-2/Nb	LHVE772JIFLIF-2/Nb	LHVE772JIDLIE-2/Nb	LHVE852KIFMIF-2/Nb	LHVE872KIENIE-2/Nb
Cooling capacity		kW	1582	1758	1934	2110	2461
		RT	449.9	500.0	550.1	600.1	699.9
Capacity adjustment range		%	5%-100%	5%-100%	5%-100%	5%-100%	5%-100%
COP		W/W	6.40	6.48	6.46	6.47	6.47
IPLV		W/W	9.06	9.18	9.15	9.18	9.18
Power supply	-M	Ph,V,Hz	380V 3~ 50Hz	380V 3~ 50Hz	380V 3~ 50Hz	380V 3~ 50Hz	380V 3~ 50Hz
Power input		kW	247.3	271.5	299.3	326.2	380.3
Compressor	Type	-	Semi-hermetic dual screw				
	Starting mode	-	VFD	VFD	VFD	VFD	VFD
	Quantity	-	2	2	2	2	2
Refrigerant	Charge volume	kg	340	420	460	560	600
	Type	-	R134a	R134a	R134a	R134a	R134a
Oil charge volume		L	36	46	46	56	56
Evaporator	Type	-	Falling film evaporator				
	Fouling factor	$m^2 \cdot ℃ / kW$	0.0176	0.0176	0.0176	0.0176	0.0176
	Water flow rate	m^3/h	272	302	333	363	423
		GPM	1198	1331	1465	1598	1864
	Pressure drop	kPa	89.3	81.6	85.3	79.5	80.7
		ft.WG	29.3	26.8	28.0	26.1	26.5
	Connection pipe	mm	DN200	DN200	DN250	DN250	DN250
Condenser	Type	-	Horizontal shell and tube condenser				
	Fouling factor	$m^2 \cdot ℃ / kW$	0.0440	0.0440	0.0440	0.0440	0.0440
	Water flow rate	m^3/h	340	378	416	454	529
		GPM	1498	1664	1831	1997	2330
	Pressure drop	kPa	80.7	77.4	81.1	80.8	78.1
		ft.WG	26.5	25.4	26.6	26.5	25.6
	Connection pipe	mm	DN250	DN250	DN250	DN250	DN250
Sound pressure level		dB(A)	89.1	90.5	91.3	91.6	91.8
Dimension (WxDxH)	Outline	mm	4500x1850x2100	4500x1950x2150	4500x1950x2150	4500x2200x2250	4500x2250x2250
	Package	mm	4550x1900x2200	4550x2000x2250	4550x2000x2250	4550x2250x2350	4550x2300x2350
Net/gross/operating weight		kg	7400/7550/8160	8250/8400/9080	9000/9150/9900	10260/10410/11290	10460/10610/11506

Note:
Working conditions: Leaving chilled water temperature 7℃ ,water flow 0.172[m^3/(h・kw)]; Entering cooling water temperature 30℃ , water flow 0.215[m^3/(h・kw)];
Fouling factor at the chilled water side 0.0176 m^2・℃ /kW, fouling factor at the cooling water side 0.044 m^2・℃ /kW

CENTRIFUGAL CHILLER

CVE Series Permanent Magnet Synchronous Inverter Centrifugal Chiller

CVE Series Permanent Magnet Synchronous Inverter Centrifugal Chiller

R134a INVERTER

It adopts high-efficiency DC inverter centrifugal compressor with internationally leading coefficient of performance. It provides high-efficiency and stable operation, and can be connected to all sorts of fan coil units to realize cooling for large civil and industrial buildings.

High-efficiency and energy-saving

Direct-driven impeller

Permanent-magnet motor

Airborne inverter

2-stage compression

Wide operation range

Advanced control

》 As it adopts high-efficiency motor direct-driven two-stage impellers with simpler structure and more reliable operation, the size and weight of compressor is only 40% of the conventional compressor with the same cooling capacity.

》 It adopts high-efficiecy permanent magnet synchronous inverter motor, whose power is over 400kW and rotation speed is over 18000rp. Meanwhile, the helical refrigerant ejecting cooling technology is adopted to ensure high-efficiency operation of the motor.

》 The design of impeller and diffuser is optimized for achieving high-efficiency operation of compressor in various loads.

》 It adopts sensor control technology to control the position of motor precisely and improve the reliability.

》 It adopts the unique diffuser with wide blade spacing to achieve high-efficiency recycle of pressure.

》 Two-stage compression enthalpy-adding technology and economizer are adopted to improve efficiency by 5~6% compared with one-stage cooling circulation system. Rotation speed of compressor is reduced, operation reliability is improved and lifespan is prolonged. Meanwhile, surge margin and operation range are wide.

》 User-friendly touch screen is adopted for convenient operation, precise control and stable output.

》 Vaned diffuser with the optimized ratio between the vane width and spacing.

AHRI CERTIFIED

Operating Range			
Chilled Water		Cooling Water	
Outlet water temp.(℃)	Temp. Difference between Inlet&Outlet(℃)	Inlet water temp.(℃)	Temp. Difference between Inlet&Outlet(℃)
5~15	2.5~8	12~35	3.5~8

Model			CVE210GF5EF4	CVE220GF3EF2	CVE230GF2EF1	CVE310HG7GG7	CVE320KG4HG7
Cooling capacity		kW	879	1055	1231	1406	1582
		RT	250	300	350	400	450
EER		W/W	6.06	6.12	6.25	6.36	6.54
IPLV		W/W	9.85	10.00	10.73	10.90	10.73
Power supply		V/Ph/Hz	380/3/50	380/3/50	380/3/50	380/3/50	380/3/50
Power input		kW	145.1	172.4	196.9	221.1	241.9
RLA		A	222.7	264.6	302.2	339.3	371.3
Capacity adjustment range		%	10~100	10~100	10~100	10~100	10~100
Compressor	Type	-	Centrifugal	Centrifugal	Centrifugal	Centrifugal	Centrifugal
	Starting mode	-	Variable frequency start	Variable frequency start	Variable frequency start	Variable frequency start	Variable frequency start
	Quantity		1	1	1	1	1
Refrigerant	Type	-	R134a	R134a	R134a	R134a	R134a
	charge volume	kg	250	275	300	350	400
oil charge volume		L	25	25	25	25	25
Evaporator	Type		Falling film	Falling film	Falling film	Falling film	Falling film
	Fouling factor	$m^2 \cdot ℃ /kW$	0.018	0.018	0.018	0.018	0.018
	Water flow volume	L/s	37.9	45.4	53.0	60.6	68.1
		GPM	600.0	720.0	840.0	960.0	1080.0
	Pressure drop	kPa	62.6	62.4	68.9	71.7	59.4
		ft.WG	20.5	20.5	22.6	23.5	19.5
	Number of passes	-	2	2	2	2	2
	Connection pipe	mm	DN150	DN150	DN150	DN200	DN250
Condenser	Type	-	Shell and Tube	Shell and Tube	Shell and Tube	Shell and Tube	Shell and Tube
	Fouling factor	$m^2 \cdot ℃ /W$	0.044	0.044	0.044	0.044	0.044
	Water flow volume	L/s	47.4	56.8	66.1	75.4	84.5
		GPM	751.7	900.7	1047.8	1194.6	1338.9
	Pressure drop	kPa	53.3	54.3	60.0	57.7	47.1
		ft.WG	17.5	17.8	19.7	18.9	15.4
	Number of passes	-	2	2	2	2	2
	Connection pipe	mm	DN200	DN200	DN200	DN200	DN250
Sound pressure level (Max.)		dB(A)	80	80	80	82	82
Dimension (WxDxH)	Outline	mm	3650x1490x1900	3650x1490x1900	3650x1490x1900	3900x1590x1900	3900x1765x2200
	Package	mm	3700x1800x2000	3700x1800x2000	3700x1800x2000	3980x1800x2100	3980x1900x2350
Net/gross/operating weight			5155/5650/5600	5382/5880/5850	5485/6000/6000	5770/6650/6400	7009/7850/7700

Model			CVE320KG3HG8	CVE410MHDJHD	CVE410MHHJHC	CVE420NHCJHB	CVE420NHBJHA
Cooling capacity		kW	1758	1934	2110	2285	2461
		RT	500	550	600	650	700
EER		W/W	6.44	6.62	6.51	6.63	6.54
IPLV		W/W	10.99	10.84	11.05	10.91	11.10
Power supply		V/Ph/Hz	380/3/50	380/3/50	380/3/50	380/3/50	380/3/50
Power input		kW	273.0	292.1	324.1	344.7	376.3
RLA		A	419.0	448.3	497.4	529.0	577.5
Capacity adjustment range		%	10~100	10~100	10~100	10~100	10~100
Compressor	Type	-	Centrifugal	Centrifugal	Centrifugal	Centrifugal	Centrifugal
	Starting mode	-	Variable frequency start	Variable frequency start	Variable frequency start	Variable frequency start	Variable frequency start
	Quantity		1	1	1	1	1
Refrigerant	Type	-	R134a	R134a	R134a	R134a	R134a
	charge volume	kg	400	450	450	480	480
oil charge volume		L	25	25	25	25	25
Evaporator	Type		Falling film	Falling film	Falling film	Falling film	Falling film
	Fouling factor	$m^2 \cdot ℃ /kW$	0.018	0.018	0.018	0.018	0.018
	Water flow volume	L/s	75.7	83.3	90.8	98.4	106.0
		GPM	1200.0	1320.0	1440.0	1560.0	1680.3
	Pressure drop	kPa	61.5	47.1	49.2	50.4	51.1
		ft.WG	20.2	15.4	16.1	16.5	16.8
	Number of passes	-	2	2	2	2	2
	Connection pipe	mm	DN250	DN250	DN250	DN250	DN250
Condenser	Type	-	Shell and Tube	Shell and Tube	Shell and Tube	Shell and Tube	Shell and Tube
	Fouling factor	$m^2 \cdot ℃ /W$	0.044	0.044	0.044	0.044	0.044
	Water flow volume	L/s	94.0	103.1	112.7	121.8	131.4
		GPM	1490.7	1634.3	1786.5	1930.8	2083.0
	Pressure drop	kPa	49.1	46.7	49.6	50.0	49.9
		ft.WG	16.1	15.3	16.3	16.4	16.4
	Number of passes	-	2	2	2	2	2
	Connection pipe	mm	DN250	DN250	DN250	DN250	DN250
Sound pressure level (Max.)		dB(A)	82	84	84	84	84
Dimension (WxDxH)	Outline	mm	3900x1765x2200	4250x1905x2250	4250x1905x2250	4250x1975x2220	4250x1975x2220
	Package	mm	3980x1900x2350	4350X2050X2450	4350X2050X2450	4350X2100X2450	4350X2100X2450
Net/gross/operating weight			7125/7950/7800	7700/8500/8450	7850/8500/8600	8177/8900/9000	8300/9050/9100

Model			CVE510PHEKHC	CVE510PHDKHB	CVE520PHCKHA	CVE520QHCKHB	CVE530QHAKHA
Cooling capacity		kW	2637	2813	2989	3164	3340
		RT	750	800	850	900	950
EER		W/W	6.71	6.63	6.64	6.57	6.65
IPLV		W/W	11.10	11.25	11.00	11.13	11.27
Power supply		V/Ph/Hz	380/3/50	380/3/50	380/3/50	380/3/50	380/3/50
Power input		kW	393	424.3	450.1	481.6	502.3
RLA		A	603.2	651.2	690.8	739.1	770.9
Capacity adjustment range		%	10~100	10~100	10~100	10~100	10~100
Compressor	Type	-	Centrifugal	Centrifugal	Centrifugal	Centrifugal	Centrifugal
	Starting mode	-	Variable frequency start	Variable frequency start	Variable frequency start	Variable frequency start	Variable frequency start
	Quantity		1	1	1	1	1
Refrigerant	Type	-	R134a	R134a	R134a	R134a	R134a
	charge volume	kg	550	550	575	650	650
oil charge volume		L	25	25	25	25	25
Evaporator	Type		Falling film	Falling film	Falling film	Falling film	Falling film
	Fouling factor	$m^2 \cdot ℃ /kW$	0.018	0.018	0.018	0.018	0.018
	Water flow volume	L/s	113.6	121.1	128.7	136.3	143.8
		GPM	1800.8	1919.7	2040.2	2160.6	2279.5
	Pressure drop	kPa	56.7	56.9	52.6	44.1	42.2
		ft.WG	18.6	18.7	17.3	14.5	13.8
	Number of passes	-	2	2	2	2	2
	Connection pipe	mm	DN300	DN300	DN300	DN300	DN300
Condenser	Type	-	Shell and Tube	Shell and Tube	Shell and Tube	Shell and Tube	Shell and Tube
	Fouling factor	$m^2 \cdot ℃ /W$	0.044	0.044	0.044	0.044	0.044
	Water flow volume	L/s	140.3	149.9	159.2	168.8	177.9
		GPM	2224.0	2376.2	2523.6	2675.8	2820.1
	Pressure drop	kPa	50.9	51.0	53.7	63.1	65.4
		ft.WG	16.7	16.7	17.6	20.7	21.5
	Number of passes	-	2	2	2	2	2
	Connection pipe	mm	DN300	DN300	DN300	DN300	DN300
Sound pressure level (Max.)		dB(A)	84	84	84	84	84
Dimension (WxDxH)	Outline	mm	4250x2080x2450	4250x2080x2450	4250x2080x2450	4250x2130x2450	4250x2130x2450
	Package	mm	4350X2200X2600	4350X2200X2600	4350X2200X2600	4350X2400X2650	4350X2400X2650
Net/gross/operating weight			9200/10000/10200	9369/10150/10350	9501/10300/10550	9832/10800/10900	9832/10800/11000

Model			CVE532QIGMIE	CVE620QICMIC	CVE620QIBMIB	CVE630RJCMJF
Cooling capacity		kW	3340	3516	3868	4219
		RT	950	1000	1100	1200
EER		W/W	6.67	6.68	6.60	6.75
IPLV		W/W	10.36	10.91	11.19	11.06
Power supply		V/Ph/Hz	380/3/50	380/3/50	380/3/50	380/3/50
Power input		kW	500.8	526.4	586.0	625.1
RLA		A	768.6	807.9	899.4	959.4
Capacity adjustment range		%	10~100	10~100	10~100	10~100
Compressor	Type	-	Centrifugal	Centrifugal	Centrifugal	Centrifugal
	Starting mode	-	Variable frequency start	Variable frequency start	Variable frequency start	Variable frequency start
	Quantity		1	1	1	1
Refrigerant	Type	-	R134a	R134a	R134a	R134a
	charge volume	kg	900	900	900	1100
oil charge volume		L	25	50	50	50
Evaporator	Type		Falling film	Falling film	Falling film	Falling film
	Fouling factor	$m^2 \cdot ℃ /kW$	0.018	0.018	0.018	0.018
	Water flow volume	L/s	143.8	151.4	166.5	181.7
		GPM	2279.5	2400.0	2639.4	2880.3
	Pressure drop	kPa	56.2	62.7	65.6	67.1
		ft.WG	18.4	20.6	21.5	22.0
	Number of passes	-	2	2	2	2
	Connection pipe	mm	DN300	DN300	DN300	DN350
Condenser	Type	-	Shell and Tube	Shell and Tube	Shell and Tube	Shell and Tube
	Fouling factor	$m^2 \cdot ℃ /W$	0.044	0.044	0.044	0.044
	Water flow volume	L/s	177.9	187.2	206.2	224.3
		GPM	2820.1	2967.5	3268.7	3555.6
	Pressure drop	kPa	67.2	57.9	58.0	72.9
		ft.WG	22.0	19.0	19.0	23.9
	Number of passes	-	2	2	2	2
	Connection pipe	mm	DN300	DN300	DN300	DN350
Sound pressure level (Max.)		dB(A)	84	85	85	85
Dimension (WxDxH)	Outline	mm	4600x2210x2500	4540x2210x2530	4540x2210x2530	5100x2310x2950
	Package	mm	4800X2350X2700	4650X2350X2750	4650X2350X2750	5200X2450X3150
Net/gross/operating weight			10330/12000/11700	10708/12300/12150	11091/12300/12500	12300/14500/14000

Control system / Product series				Air-cooled Chiller		Screw Chiller		Centrifugal Chiller	
				Inverter Mini Chiller(Heat Pump, R410A Series)	Inverter Modular Air-cooled Chiller (Heat Pump)	High-efficiency Heat Pump Air-cooled Screw Chiller	High-efficiency Modular-Air-cooled Screw Chiller	High-efficiency Water-cooled Screw Chiller	CVE Series Permanent Magnet Synchronous Inverter Centrifugal Chiller
Display panel[1]	Push-button display panel	Z263Q		●					
		XE73-25/G			●				
		Z2F3Q				●	●		
	Touch-screen display panel	Z2K3						●	
		CM18-GZ12/A3(M)						○	
		CM27-GZ12/A1(M)							●

Notes:

● means standard, ○ means optional.

*1 with BMS (modbus) function.

TERMINAL

Fan Coil Unit

ERV

Air Curtain

Fan Coil Unit

Vertical Mounted Type

》 Vertical-mounted type fan coil unit has simple look, flexible design and can be easily installed.

Inner groove copper

Washable filter

Quiet function

Multi fan speed

Compact design

》 Optimize and design volute molded lines, impair the incision effect of high-speed air flow discharged from impeller, achieve good noise reduction effect; optimize and design angle of centrifugal fan blade and internal and external circle diameter of impeller, which can increase the air volume and lower the fan noise as well.

》 Add noise-absorbing heat insulation material in the duct to improve the vortex and lower the noise.

》 The body is small for easy installation and occupying less space, which is applicable to multiple installing locations.

》 User can freely select fan coil temperature controller, which can be flexibly installed.

》 Unique electric box sub-assy structure design: motor and capacitor are separated, external capacitor for easy maintenance and replacement; the capacitor is plug-in type for easily removal and maintenance.

Item	Operation Ambient Temperature Range(℃)	Water Supply Temperature Range(℃)
Cooling	16~40	⩾5
Heating	10~35	⩽65

Model			FP-22LM/D-K	FP-34LM/D-K	FP-51LM/D-K	FP-68LM/D-K	FP-85LM/D-K
Air flow volume(H/M/L)		m^3/h	300/250/200	400/350/300	580/500/420	680/530/380	760/600/400
		CFM	177/147/118	235/206/177	341/294/247	400/312/224	447/353/235
Capacity	Cooling/Heating	kW	1.4/2.0	1.9/2.3	2.8/3.4	3.2/3.8	4.25/4.9
Power system	Type	V/Ph/Hz	220-240V~50Hz	220-240V~50Hz	220-240V~50Hz	220-240V~50Hz	220-240V~50Hz
	Input	kW	0.035	0.046	0.056	0.066	0.068
Water system	Cooling Water flow volume	L/s	0.07	0.09	0.14	0.16	0.21
		GPM	1.10	1.40	2.20	2.50	3.30
	Heating Water flow volume	L/s	0.09	0.11	0.17	0.19	0.26
		GPM	1.40	1.70	2.70	3.00	4.10
	Cooling Pressure drop	kPa	10	15	18	21	27
		Ft.WG	3.3	4.9	5.9	6.9	8.9
	Heating Pressure drop	kPa	20	22	27	30	38
		Ft.WG	6.6	7.2	8.9	9.8	12.5
Sound pressure level*2		dB(A)	36	38	39	42	45
Connetion pipe	Water inlet & outlet(inner groove)	Inch	Rc3/4	Rc3/4	Rc3/4	Rc3/4	Rc3/4
	Condensed water drain(outer groove)	mm	22	22	22	22	22
Dimension (W×D×H)	Outline	mm	895×680×230	895×680×230	1050×680×230	1050×680×230	1050×680×230
	Package	mm	1120×690×285	1120×690×285	1275×690×285	1275×690×285	1275×690×285
Net weight/Gross weight		kg	23/30	23/30	27/34	27/34	28/35
Loading quantity	40'GP/40'HQ	Set	238/272	238/272	189/216	189/216	189/216
Thermostat		-	Unit-mounted	Unit-mounted	Unit-mounted	Unit-mounted	Unit-mounted

Model			FP-102LM/D-K	FP-119LM/D-K	FP-136LM/D-K	FP-170LM/D-K	FP-204LM/D-K
Air flow volume(H/M/L)		m^3/h	1000/740/510	1100/860/610	1100/870/620	1700/1275/850	1900/1425/950
		CFM	589/435/300	647/506/359	647/512/364	1000/750/500	1118/839/559
Capacity	Cooling/Heating	kW	5.0/5.9	5.3/6.45	5.9/6.8	9.2/10.7	10.1/11.5
Power system	Type	V/Ph/Hz	220-240V~50Hz	220-240V~50Hz	220-240V~50Hz	220-240V~50Hz	220-240V~50Hz
	Input	kW	0.110	0.124	0.128	0.155	0.195
Water system	Cooling Water flow volume	L/s	0.25	0.26	0.28	0.44	0.48
		GPM	4.00	4.10	4.40	7.00	7.60
	Heating Water flow volume	L/s	0.28	0.30	0.32	0.51	0.55
		GPM	4.40	4.80	5.10	8.10	8.70
	Cooling Pressure drop	kPa	18	20	25	45	55
		Ft.WG	5.9	6.6	8.2	14.7	18.0
	Heating Pressure drop	kPa	25	27	30	55	65
		Ft.WG	8.2	8.9	9.8	18.0	21.3
Sound pressure level*2		dB(A)	48	50	50	49	52
Connetion pipe	Water inlet & outlet(inner groove)	Inch	Rc3/4	Rc3/4	Rc3/4	Rc3/4	Rc3/4
	Condensed water drain(outer groove)	mm	22	22	22	22	22
Dimension (W×D×H)	Outline	mm	1350×680×230	1350×680×230	1350×680×230	1773×680×230	1773×680×230
	Package	mm	1625×690×285	1625×690×285	1625×690×285	2100×690×285	2100×690×285
Net weight/Gross weight		kg	33/41	33/41	33/41	47/57.5	47.5/58
Loading quantity	40'GP/40'HQ	Set	147/168	147/168	147/168	119/136	119/136
Thermostat		-	Unit-mounted	Unit-mounted	Unit-mounted	Unit-mounted	Unit-mounted

Notes: The data are tested under these testing conditions as below:

Item	Nominal test condition (temperature)			
	Inlet Air		Water	
	DB(℃)	WB(℃)	Inlet(℃)	Outlet(℃)
Cooling	27	19	7	12
Heating	20	⩽15	45	40

Fan Coil Unit

Concealed Ceiling Type

It is a kind of fan coil unit that is connected to the chillers to realize cooling/heating for civil or residential use.

(Without air return box)

(With air return box)

Inner groove copper

Washable filter

Quiet function

Multi fan speed

Compact design

- Thanks to optimized air flue design that greatly improve the fan efficiency and lower the operation noise.
- Flexible air inlet/outlet directions, meet different installation requirements.
- Washable filter is optional when equipped with air return box.

It em	Operation Ambient Temperature Range(℃)	Water Supply Temperature Range(℃)
Cooling	14-40	⩾ 5
Heating	10-35	⩽ 80

2 Pipes/2 Rows/High ESP Type

Model			FP-34WAH/GHL-K	FP-51WAH/GHL-K	FP-68WAH/GHL-K	FP-85WAH/GHL-K
Air flow volume(H/M/L)		m^3/h	450/338/225	590/428/225	750/563/375	930/698/465
		CFM	265/119/132	347/251/168	440/330/221	547/410/274
ESP		Pa	0	0	0	0
Capacity	Cooling/Heating	kW	2.00/2.30	3.10/3.50	3.55/4.50	4.50/4.900
Power system	Power supply	V/Ph/Hz	220-240V~ 50Hz	220-240V~ 50Hz	220-240V~ 50Hz	220-240V~ 50Hz
	Input	kW	0.048	0.057	0.072	0.09
Water system	Cooling water flow volume	L/s	0.09	0.15	0.17	0.21
		GPM	1.43	2.38	2.70	3.33
	Heating water flow volume	L/s	0.11	0.17	0.22	0.24
		GPM	1.75	2.70	3.49	3.81
	Cooling pressure drop	kPa	23.00	41.00	32.00	30.00
		Ft.WG	7.54	13.45	10.50	9.84
	Heating pressure drop	kPa	25.00	42.00	40.00	34.00
		Ft.WG	8.20	13.78	13.12	11.15
Sound pressure level		dB(A)	39	39	41	46
Dimension (W × D × H)	Outline	mm	680 × 520 × 235	800 × 520 × 235	900 × 520 × 235	1000 × 520 × 235
	Package	mm	773 × 603 × 325	893 × 603 × 325	993 × 603 × 325	1093 × 603 × 325
Net weight/Gross weight		kg	14.5/19.2	17.0/21.9	18.9/24.0	20.8/26.2
Connection pipe	Water inlet & outlet(inner thread)	Inch	Rc3/4	Rc3/4	Rc3/4	Rc3/4
	Condensed water drain(outer thread)	Inch	R23/4	R23/4	R23/4	R23/4
Loading quantity	40'GP/40'HQ	Set	324/432	273/364	249/332	225/300
Optional	Wired remote controller	–	WK-010PV / WK-010PW / WK-011PM / WK-010PM			

Model			FP-102WAH/GHL-K	FP-136WAH/GHL-K	FP-170WAH/GHL-K	FP-204WAH/GHL-K
Air flow volume(H/M/L)		m^3/h	1100/825/550	1400/1050/700	1700/1275/850	2000/1500/1000
		CFM	647/458/324	824/618/412	1000/750/500	1176/882/588
ESP		Pa	0	0	0	0
Capacity	Cooling/Heating	kW	5.2/6.3	6.9/8.2	7.2/9.2	10.2/12.0
Power system	Power supply	V/Ph/Hz	220-240V~ 50Hz	220-240V~ 50Hz	220-240V~ 50Hz	220-240V~ 50Hz
	Input	kW	0.111	0.152	0.185	0.222
Water system	Cooling water flow volume	L/s	0.25	0.33	0.34	0.49
		GPM	3.97	5.24	5.40	7.78
	Heating water flow volume	L/s	0.30	0.39	0.44	0.58
		GPM	4.76	6.19	6.98	9.21
	Cooling pressure drop	kPa	37.00	47.00	42.00	34.00
		Ft.WG	12.14	15.42	13.78	11.15
	Heating pressure drop	kPa	46.00	48.00	45.00	36.00
		Ft.WG	15.09	15.74	14.76	11.81
Sound pressure level		dB(A)	49	48	49	52
Dimension (W × D × H)	Outline	mm	1080 × 520 × 235	1380 × 520 × 235	1520 × 520 × 235	1620 × 520 × 235
	Package	mm	1173 × 603 × 325	1473 × 603 × 325	1608 × 603 × 325	1713 × 603 × 325
Net weight/Gross weight		kg	21.9/27.5	31.5/37.5	34.1/41.6	38.0/44.5
Connection pipe	Water inlet & outlet(inner thread)	Inch	Rc3/4	Rc3/4	Rc3/4	Rc3/4
	Condensed water drain(outer thread)	Inch	R23/4	R23/4	R23/4	R23/4
Loading quantity	40'GP/40'HQ	Set	210/280	168/224	150/200	138/184
Optional	Wired remote controller	–	WK-010PV / WK-010PW / WK-011PM / WK-010PM			

2 Pipes/3 Rows/Standard Type

Model			FP-34WAS/GHL-K	FP-51WAS/GHL-K	FP-68WAS/GHL-K	FP-85WAS/GHL-K	FP-102WAS/GHL-K	FP-136WAS/GHL-K	FP-170WAS/GHL-K	FP-204WAS/GHL-K
Air flow volume(H/M/L)		m3/h	370/278/185	570/428/285	720/540/360	870/653/435	1020/765/510	1360/1020/680	1600/1200/800	1900/1425/650
		CFM	218/163/109	335/251/168	424/318/212	512/384/256	600/450/300	800/600/400	941/706/470	1118/838/559
ESP		Pa	0	0	0	0	0	0	0	0
Capacity	Cooling/Heating	kW	2.1/2.4	3.2/3.7	4.1/4.8	4.8/5.5	5.9/6.6	7.6/8.9	8.8/10.2	10.4/12.1
Power system	Power Supply	V/Ph/Hz	220-240V~ 50Hz	220-240V~ 50Hz	220-240V~ 50Hz	220-240V~ 50Hz	220-240V~ 50Hz	220-240V~ 50Hz	220-240V~ 50Hz	220-240V~ 50Hz
	Input	kW	0.035	0.058	0.066	0.078	0.102	0.161	0.150	0.192
Water system	Cooling water flow volume	L/s	0.10	0.15	0.19	0.23	0.28	0.36	0.42	0.50
		GPM	1.59	2.38	3.02	3.65	4.44	5.71	6.67	7.94
	Heating water flow volume	L/s	0.11	0.18	0.23	0.26	0.32	0.43	0.49	0.58
		GPM	1.75	2.86	3.65	4.13	5.08	6.83	7.78	9.21
	Cooling pressure drop	kPa	20.00	27.00	25.00	35.00	45.00	44.00	32.00	39.00
		Ft.WG	6.56	8.86	8.20	11.48	14.76	14.43	10.50	12.79
	Heating pressure drop	kPa	22.00	31.00	31.00	42.00	47.00	47.00	38.00	41.00
		Ft.WG	7.22	10.17	10.17	13.78	15.42	15.42	12.46	13.45
Sound pressure level		dB(A)	37.0	39.0	40.5	44.0	48.0	47.0	48.0	50.5
Dimension (W×D×H)	Outline	mm	680×520×235	800×520×235	900×520×235	1000×520×235	1080×520×235	1380×520×235	1520×520×235	1620×520×235
	Package	mm	773×603×325	893×603×325	993×603×325	1093×603×325	1173×603×325	1473×603×325	1608×603×325	1713×603×325
Net weight/Gross weight		kg	14.9/19.6	17.4/22.3	19.3/24.4	21.3/26.7	22.7/28.3	30.9/36.9	34.5/42.0	38.0/44.5
Connection pipe	Water inlet & outlet(inner thread)	Inch	Rc3/4	Rc3/4	Rc3/4	Rc3/4	Rc3/4	Rc3/4	Rc3/4	Rc3/4
	Condensed water drain(outer thread)	Inch	R23/4	R23/4	R23/4	R23/4	R23/4	R23/4	R23/4	R23/4
Loading quantity	40'GP/40'HQ	Set	324/432	273/364	249/332	225/300	210/280	168/224	150/200	138/184
Optional	Wired remote controller	-	WK-010PV / WK-010PW / WK-011PM / WK-010PM							

2 Pipes/3 Rows/High ESP Type

Model			FP-34WAHS/GHL-K	FP-51WAHS/GHL-K	FP-68WAHS/GHL-K	FP-85WAHS/GHL-K	FP-102WAHS/GHL-K	FP-136WAHS/GHL-K	FP-170WAHS/GHL-K	FP-204WAHS/GHL-K
Air flow volume(H/M/L)		m3/h	450/338/225	570/428/285	750/563/375	930/698/465	1100/825/550	1400/1050/700	1700/1275/850	2000/1500/1000
		CFM	265/119/132	335/251/168	441/331/221	547/410/274	647/485/324	824/618/412	1000/750/500	1176/882/588
ESP		Pa	0	0	0	0	0	0	0	0
Capacity	Cooling/Heating	kW	2.5/2.8	3.3/3.8	4.2/5.1	4.9/5.7	6.1/6.9	7.8/9.0	9.0/10.9	10.5/12.4
Power system	Power Supply	V/Ph/Hz	220-240V~ 50Hz	220-240V~ 50Hz	220-240V~ 50Hz	220-240V~ 50H	220-240V~ 50Hz	220-240V~ 50Hz	220-240V~ 50Hz	220-240V~ 50Hz
	Input	kW	0.046	0.057	0.072	0.083	0.108	0.164	0.185	0.221
Water system	Cooling water flow volume	L/s	0.12	0.16	0.20	0.23	0.29	0.37	0.43	0.50
		GPM	1.90	2.54	3.17	3.65	4.60	5.87	6.83	7.94
	Heating water flow volume	L/s	0.13	0.18	0.24	0.27	0.33	0.43	0.50	0.59
		GPM	2.06	2.86	3.81	4.29	5.24	6.83	7.94	9.37
	Cooling pressure drop	kPa	26.00	27.00	27.00	35.00	45.00	46.00	39.00	39.00
		Ft.WG	8.53	8.86	8.86	11.48	14.76	15.09	12.79	12.79
	Heating pressure drop	kPa	31.00	30.00	31.00	43.00	49.00	47.00	40.00	42.00
		Ft.WG	10.17	9.84	10.17	14.10	16.07	15.42	13.12	13.78
Sound pressure level		dB(A)	39	40	42	46	49	49	49	52
Dimension (W×D×H)	Outline	mm	680×520×235	800×520×235	900×520×235	1000×520×235	1080×520×235	1380×520×235	1520×520×235	1620×520×235
	Package	mm	773×603×325	893×603×325	993×603×325	1093×603×325	1173×603×325	1473×603×325	1608×603×325	1713×603×325
Net weight/Gross weight		kg	14.9/19.6	17.4/22.3	19.3/24.4	21.3/26.7	22.7/28.3	30.9/36.9	34.5/42.0	38.0/44.5
Connection pipe	Water inlet & outlet(inner thread)	Inch	Rc3/4	Rc3/4	Rc3/4	Rc3/4	Rc3/4	Rc3/4	Rc3/4	Rc3/4
	Condensed water drain(outer thread)	Inch	R23/4	R23/4	R23/4	R23/4	R23/4	R23/4	R23/4	R23/4
Loading quantity	40'GP/40'HQ	Set	324/432	273/364	249/332	225/300	210/280	168/224	150/200	138/184
Optional	Wired remote controller	-	WK-010PV / WK-010PW / WK-011PM / WK-010PM							

4 Pipes/3+1 Rows Type

Model			FP-34WAHT/BHL-K	FP-51WAHT/BHL-K	FP-68WAHT/BHL-K	FP-85WAHT/BHL-K	FP-102WAHT/BHL-K	FP-136WAHT/BHL-K	FP-170WAHT/BHL-K	FP-204WAHT/BHL-K
Air flow volume(H/M/L)		m3/h	430/323/215	640/480/320	740/555/370	910/683/455	1040/780/520	1600/1200/800	1980/1485/990	2100/1575/1050
		CFM	253/190/126	376/282/188	435/326/218	535/401/268	612/459/306	941/706/471	1165/874/582	1235/926/618
ESP		Pa	0	0	0	0	0	0	0	0
Capacity	Cooling/Heating	kW	2.45/3.40	3.70/4.70	4.55/5.70	5.40/6.350	6.35/7.55	8.3/09.90	10.0/11.5	10.2/11.9
Power system	Power Supply	V/Ph/Hz	220-240V~ 50Hz	220-240V~ 50Hz	220-240V~ 50Hz	220-240V~ 50Hz	220-240V~ 50Hz	220-240V~ 50Hz	220-240V~ 50Hz	220-240V~ 50Hz
	Input	kW	0.045	0.066	0.071	0.09	0.113	0.169	0.186	0.216
Water system	Cooling water flow volume	L/s	0.12	0.18	0.22	0.26	0.30	0.40	0.48	0.49
		GPM	1.85	2.80	3.44	4.08	4.80	6.27	7.56	7.71
	Heating water flow volume	L/s	0.16	0.23	0.27	0.31	0.36	0.48	0.55	0.57
		GPM	2.54	3.65	4.29	4.92	5.71	7.62	8.73	9.05
	Cooling pressure drop	kPa	8.00	15.00	24.00	35.00	56.00	17.00	32.00	31.00
		Ft.WG	2.62	4.92	7.87	11.48	18.37	5.58	10.50	10.17
	Heating pressure drop	kPa	23.00	41.00	80.00	108.00	153.00	54.00	72.00	81.00
		Ft.WG	7.54	13.45	26.24	35.42	50.18	17.71	23.62	26.57
Sound pressure level		dB(A)	40	42	44	46	47	48	50	52
Dimension (W×D×H)	Outline	mm	881×510×245	1011×510×245	1131×510×245	1211×510×245	1371×510×245	1761×510×245	1921×510×245	1921×510×245
	Package	mm	903×278×625	1033×278×625	1153×278×625	1233×278×625	1390×278×625	1783×278×625	1943×278×625	1943×278×625
Net weight/Gross weight		kg	19.0/22.5	22.5/27.0	25.0/29.5	27.0/31.5	30.5/35.0	43.5/48.5	47.0/53.0	47.0/53.0
Connection pipe	Water inlet & outlet(inner thread)	Inch	Rc3/4	Rc3/4	Rc3/4	Rc3/4	Rc3/4	Rc3/4	Rc3/4	Rc3/4
	Condensed water drain(outer thread)	Inch	R23/4	R23/4	R23/4	R23/4	R23/4	R23/4	R23/4	R23/4
Loading quantity	40'GP/40'HQ	Set	321/428	270/360	252/336	271/317	198/264	156/208	144/192	144/192
Optional	Wired remote controller	-	WK-010PN / WK-011PN / WK-010PR / WK-010PS							

Notes: 1. The data are tested under these testing conditions as below:

Item		Nominal test condition (temperature)			
		Inlet Air		Water	
		DB(℃)	WB(℃)	Inlet(℃)	Outlet(℃)
2-PiPes	Cooling	27	19	7	12
	Heating	20	15	45	40
4-PiPes	Cooling	27	19	7	12
	Heating	20	15	65	55

2. The airflow volume is tested under the ESP in the table.

Fan Coil Unit

Cassette Type

Quiet function | Multi fan speed | Compact design | Self-diagnosis | Inner groove copper | Built-in drain pump | Washable filter | Anti-cold function

- Optimized air duct design to greatly improve the fan efficiency and lower the operation noise.
- Four directions airflow that makes an even temperature and humidity distribution.
- Evaporator moisture auto cleaning after power off to avoid mildew.
- Forced high speed fan operation under emergency condition.

Item	Operation Ambient Temperature Range(℃)	Water Supply Temperature Range(℃)
Cooling	16~40	≥ 5
Heating	10~35	≤ 65

2 Pipes & 4 Ways*

Model				FP-51XD/A-K	FP-68XD/A-K	FP-85XD/B-T(E)	FP-102XD/B-T(E)	FP-125XD/B-T(E)
Air flow volume(H/M/L)			m3/h	510/400/300	660/560/460	800/665/590	940/770/670	1090/860/760
			CFM	300/235/176	388/330/270	471/385/347	470/453/394	641/506/447
Capacity	Cooling/Heating		kW	2.75/3.40	3.40/3.80	4.50/5.40	5.00/6.10	6.00/6.90
Power system	Power supply		V/Ph/Hz	220-240V~50Hz	220-240V~50Hz	220-240V~50Hz	220-240V~50Hz	220-240V~50Hz
	Input		kW	0.073	0.078	0.081	0.110	0.100
Water system	Cooling water flow volume		L/s	0.13	0.18	0.22	0.24	0.29
			GPM	2.10	2.80	3.50	3.80	4.60
	Heating water flow volume		L/s	0.16	0.20	0.27	0.29	0.33
			GPM	2.50	3.10	4.30	4.60	5.20
	Cooling pressure drop		kPa	30	38	27	34	21
			Ft.WG	9.8	12.5	8.9	11.2	6.9
	Heating pressure drop		kPa	30	38	37	46	32
			Ft.WG	9.8	12.5	12.1	15.1	10.5
Sound pressure level			dB(A)	46	46	39	49	43
Connection pipe	Water inlet & outlet(inner thread)		Inch	Rc3/4	Rc3/4	Rc3/4	Rc3/4	Rc3/4
	Condensed water drain(outer thread)		mm	31	31	31	31	31
Body	Dimension (W × D × H)	Outline	mm	592x592x240	592x592x240	840 × 840 × 190	840 × 840 × 190	840 × 840 × 240
		Package	mm	775x730x285	775x730x285	963 × 963 × 272	963 × 963 × 272	963 × 963 × 325
	Net weight/Gross weight		kg	20/24	20/24	25/33	25/33	27/34
Panel	Dimension (W × D × H)	Outline	mm	670x670x85	670x670x85	950 × 950 × 85	950 × 950 × 85	950 × 950 × 85
		Package	mm	760x760x90	760x760x90	1033 × 1038 × 133	1033 × 1038 × 133	1033 × 1038 × 133
	Net weight/Gross weight		kg	3.5/5.0	3.5/5.0	7.0/11.0	7.0/11.0	7.0/11.0
Loading quantity	40'GP/40'HQ		Set	258/291	258/291	131/147	131/147	121/134
Standard	Wireless remote controller		-	YB1FA(MOTO)	YB1FA(MOTO)	YB1FA(MOTO)	YB1FA(MOTO)	YB1FA(MOTO)
Optional	Wired remote controller		-	XE70-17/E(M)	XE70-17/E(M)	XE70-17/E(M)	XE70-17/E(M)	XE70-17/E(M)

Model				FP-140XD/B-T(E)	FP-160XD/B-T(E)	FP-180XD/B-T(E)	FP-200XD/D-K(E)
Air flow volume(H/M/L)			m3/h	1400/1160/1000	1500/1200/1000	1640/1360/1200	1700/1430/1150
			CFM	823/682/588	882/706/588	964/800/706	1000/841/676
Capacity	Cooling/Heating		kW	7.40/8.40	8.40/9.00	9.50/10.50	11.10/11.70
Power system	Power supply		V/Ph/Hz	220-240V~50Hz	220-240V~50Hz	220-240V~50Hz	220-240V~50Hz
	Input		kW	0.143	0.152	0.160	0.140
Water system	Cooling water flow volume		L/s	0.35	0.40	0.45	0.53
			GPM	5.50	6.30	7.10	8.40
	Heating water flow volume		L/s	0.40	0.43	0.49	0.56
			GPM	6.30	6.80	7.80	8.90
	Cooling pressure drop		kPa	30	30	33	21
			Ft.WG	9.8	9.8	10.8	6.9
	Heating pressure drop		kPa	38	36	41	25
			Ft.WG	12.4	11.8	13.5	8.2
Sound pressure level			dB(A)	50	51	50	55
Connection pipe	Water inlet & outlet(inner thread)		Inch	Rc3/4	Rc3/4	Rc3/4	Rc3/4
	Condensed water drain(outer thread)		mm	31	31	31	31
Body	Dimension (W × D × H)	Outline	mm	840 × 840 × 240	840 × 840 × 240	840 × 840 × 320	840 × 840 × 320
		Package	mm	963 × 963 × 325	963 × 963 × 325	963 × 963 × 409	963 × 963 × 409
	Net weight/Gross weight		kg	27/35	27/35	32/41	33/42
Panel	Dimension (W × D × H)	Outline	mm	950 × 950 × 85	950 × 950 × 85	950 × 950 × 85	950 × 950 × 85
		Package	mm	1033 × 1038 × 133	1033 × 1038 × 133	1033 × 1038 × 133	1033 × 1038 × 133
	Net weight/Gross weight		kg	7/11	7/11	7/11	7/11
Loading quantity	40'GP/40'HQ		Set	121/134	121/134	117/133	117/133
Standard	Wireless remote controller		-	YB1FA(MOTO)	YB1FA(MOTO)	YB1FA(MOTO)	YB1FA(MOTO)
Optional	Wired remote controller		-	XE70-17/E(M)	XE70-17/E(M)	XE70-17/E(M)	XE70-17/E(M)

4 Pipes & 4 Ways

Model				FP-68XDT/B-K(E)	FP-85XDT/B-K(E)	FP-125XDT/B-K(E)	FP-180XDT/B-K(E)
Air flow volume(H/M/L)			m3/h	680/618/571	850/764/697	1250/1108/1014	1700/1525/1421
			CFM	400/364/336	500/450/410	736/652/597	1000/897/836
Capacity	Cooling/Heating		kW	3.5/5.8	4.5/6.8	6.0/9.2	8.0/12.0
Power system	Power supply		V/Ph/Hz	220-240V~50Hz	220-240V~50Hz	220-240V~50Hz	220-240V~50Hz
	Input		kW	0.082	0.090	0.135	0.191
Water system	Cooling water flow volume		L/s	0.21	0.24	0.29	0.44
			GPM	3.30	3.80	4.60	7.00
	Heating water flow volume		L/s	0.17	0.19	0.27	0.36
			GPM	2.70	3.00	4.30	5.70
	Cooling pressure drop		kPa	44	53	41	48
			Ft.WG	14.4	17.4	13.4	15.7
	Heating pressure drop		kPa	76	83	84	97
			Ft.WG	24.9	27.2	27.5	31.8
Sound pressure level			dB(A)	39	40	43	50
Connection pipe	Water inlet & outlet(inner thread)		Inch	Rc3/4	Rc3/4	Rc3/4	Rc3/4
	Condensed water drain(outer thread)		mm	31	31	31	31
Body	Dimension (W × D × H)	Outline	mm	840 × 840 × 190	840 × 840 × 190	840 × 840 × 240	840 × 840 × 320
		Package	mm	963 × 963 × 272	963 × 963 × 272	963 × 963 × 325	963 × 963 × 409
	Net weight/Gross weight		kg	25/33	25/33	27/34	32/41
Panel	Dimension (W × D × H)	Outline	mm	950 × 950 × 85	950 × 950 × 85	950 × 950 × 85	950 × 950 × 85
		Package	mm	1033 × 1038 × 133	1033 × 1038 × 133	1033 × 1038 × 133	1033 × 1038 × 133
	Net weight/Gross weight		kg	7/11	7/11	7/11	7/11
Loading quantity	40'GP/40'HQ		Set	131/147	131/147	121/134	98/112
Standard	Wireless remote controller		-	YB1FA(MOTO)	YB1FA(MOTO)	YB1FA(MOTO)	YB1FA(MOTO)
Optional	Wired remote controller		-	XE70-17/E(M)	XE70-17/E(M)	XE70-17/E(M)	XE70-17/E(M)

Notes: The data are tested under these testing conditions as below:

Item		Nominal test condition (temperature)			
		Inlet Air		Water	
		DB(℃)	WB(℃)	Inlet(℃)	Outlet(℃)
2-PiPes	Cooling	27	19	7	12
	Heating	20	≤ 15	45	40
4-PiPes	Cooling	27	19	7	12
	Heating	20	≤ 15	65	55

Fan Coil Unit

Floor Ceiling Type

Inner groove copper | Washable filter | Anti-cold function | Quiet function | Auto clean | Multi fan speed | Self-diagnosis | Compact design

》 Optimized air duct design to greatly improve the fan efficiency and lower the operation noise.
》 The fan will be operated only if the chilled water inlet temperature is lower than the setting value to avoid warm air under cooling condition.

Item	Operation Ambient Temperature Range(℃)	Water Offer Temperature Range(℃)
Cooling	16~40	≥5
Heating	10~35	≤65

Model			FP-34ZD-K(E)	FP-51ZD-K(E)	FP-68ZD-K(E)	FP-85ZD-K(E)	FP-102ZD-K(E)	FP-136ZD-K(E)	FP-170ZD-K(E)	FP-204ZD-K(E)
Air flow volume(H/M/L)		m^3/h	400/300/210	510/400/310	680/550/450	690/570/485	910/756/600	1030/854/700	1800/1260/850	1940/1500/1050
		CFM	235/176/124	300/235/182	400/324/265	406/335/285	535/445/353	606/502/412	1059/741/500	1141/882/618
Capacity	Cooling/Heating	kW	1.90/2.40	2.80/3.40	3.50/4.10	3.60/4.20	5.20/6.00	6.35/6.70	8.90/10.80	9.90/12.20
Power system	Power supply	V/Ph/Hz	220-240V~50Hz	220-240V~50Hz	220-240V~50Hz	220-240V~50Hz	220-240V~50Hz	220-240V~50Hz	220-240V~50Hz	220-240V~50Hz
	Input	kW	0.046	0.065	0.076	0.084	0.095	0.096	0.152	0.200
Water system	Cooling water flow volume	L/s	0.09	0.13	0.17	0.17	0.25	0.30	0.43	0.47
		GPM	1.40	2.10	2.70	2.70	4.00	4.80	6.80	7.50
	Heating water flow volume	L/s	0.17	0.16	0.19	0.22	0.30	0.32	0.48	0.52
		GPM	2.70	2.50	3.00	3.50	4.80	5.10	7.60	8.30
	Cooling pressure drop	kPa	20	20	32	16	80	99	115	100
		Ft.WG	6.6	6.6	10.5	5.2	26.2	32.3	37.7	32.8
	Heating pressure drop	kPa	20	20	32	16	80	99	115	100
		Ft.WG	6.6	6.6	10.5	5.2	26.2	32.5	37.7	32.8
Sound pressure level		dB(A)	37	38	45	47	49	48	50	55
Connetion pipe	Water inlet & outlet(inner thread)	Inch	Rc3/4	Rc3/4	Rc3/4	Rc3/4	Rc3/4	Rc3/4	Rc3/4	Rc3/4
	Condensed water drain(outer thread)	mm	17	17	17	17	17	17	17	17
Dimension (W×D×H)	Outline	mm	840×695×238	840×695×238	840×695×238	840×695×238	1300×600×188	1300×600×188	1590×695×238	1590×695×238
	Package	mm	960×830×330	960×830×330	960×830×330	960×830×330	1414×724×248	1414×724×248	1714×830×330	1714×830×330
Net weight/Gross weight		kg	26.0/33.0	26.0/33.0	27.0/34.0	27.0/34.0	31.5/36.5	31.5/36.5	48.5/57.0	48.5/57.0
Loading quantity	40'GP/40'HQ	Set	224/267	224/267	224/267	224/267	220/244	220/244	111/117	111/117
Standard	Wireless remote controller	-	YB1FA(MOTO)	YB1FA(MOTO)	YB1FA(MOTO)	YB1FA(MOTO)	YB1FA(MOTO)	YB1FA(MOTO)	YB1FA(MOTO)	YB1FA(MOTO)
Optional	Wired remote controller	-	XE70-17/E(M)	XE70-17/E(M)	XE70-17/E(M)	XE70-17/E(M)	XE70-17/E(M)	XE70-17/E(M)	XE70-17/E(M)	XE70-17/E(M)

Notes: The data are tested under these testing conditions as below:

Item	Nominal test condition (temperature)			
	Inlet Air		Water	
	DB(℃)	WB(℃)	Inlet(℃)	Outlet(℃)
Cooling	27	19	7	12
Heating	20	≤15	45	40

Fan Coil Unit

Wall Mounted Type

Inner groove copper | Washable filter | Anti-cold function | Quiet function | Auto clean | Multi fan speed | Compact design

》 Thanks to optimized air flue design that greatly improve the fan efficiency and lower the operation noise.
》 Reasonable airflow that makes an even temperature and humidity distribution.
》 The unit is with air valve for more reliable operation.

Item	Operation Ambient Temperature Range(℃)	Water Offer Temperature Range(℃)
Cooling	16~40	≥ 5
Heating	10~35	≤ 65

2 Pipes

Model			FP-34BA2/D-K(E)	FP-51BA2/D-K(E)	FP-68BA2/D-K(E)	FP-85BA2/D-K(E)	FP-51BWA2/A-K(E)	FP-85BWA2/A-K(E)
Air flow volume(H/M/L)		m^3/h	360/322/282	550/413/367	680/591/532	850/708/616	450/383/323	650/560/490
		CFM	212/189/166	324/242/215	400/347/312	500/416/362	265/225/190	382/329/288
Capacity	Cooling/Heating	kW	2.0/2.3	2.5/2.8	3.6/4.1	4.0/4.5	1.4/2	3.1/3.3
Power system	Power supply	V/Ph/Hz	220-240V~50Hz	220-240V~50Hz	220-240V~50Hz	220-240V~50Hz	220-240V~50Hz	220-240V~50Hz
	Input	kW	0.050	0.050	0.060	0.066	0.043	0.069
Water system	Cooling water flow volume	L/s	0.10	0.12	0.17	0.19	0.07	0.15
		GPM	1.60	1.90	2.70	3.00	1.10	2.40
	Heating water flow volume	L/s	0.11	0.13	0.20	0.21	0.10	0.16
		GPM	1.70	2.10	3.20	3.30	1.60	2.50
	Cooling pressure drop	kPa	18	25	52	60	20	53
		Ft.WG	5.9	8.2	17.1	19.7	6.6	17.4
	Heating pressure drop	kPa	20	25	52	60	21	57
		Ft.WG	6.6	8.2	17.1	19.7	6.9	18.7
Sound pressure level		dB(A)	35	40	43	48	42	50
Connetion pipe	Water inlet & outlet(inner thread)	Inch	1/2	1/2	1/2	1/2	1/2	1/2
	Condensed water drain(outer thread)	mm	15.6	15.6	15.6	15.6	15.6	15.6
Dimension (W×D×H)	Outline	mm	845×180×275	845×180×275	940×200×298	940×200×298	845×180×275	940×200×298
	Package	mm	915×255×355	915×255×355	1010×285×380	1010×285×380	915×255×355	1010×285×380
Net weight/Gross weight		kg	10/12.5	10/12.5	12/16	12/16	11/14	13/17
Loading quantity	40'GP/40'HQ	Set	765/850	765/850	595/671	595/671	765/850	595/671
Standard	Wireless remote controller	-	YB1FA(MOTO)	YB1FA(MOTO)	YB1FA(MOTO)	YB1FA(MOTO)	YB1FA(MOTO)	YB1FA(MOTO)
Optional	Wired remote controller	-	XE70-17/E(M)	XE70-17/E(M)	XE70-17/E(M)	XE70-17/E(M)	XE70-17/E(M)	XE70-17/E(M)

Model			FP-51BWA3/A-K(E)	FP-85BWA3/A-K(E)	FP-34BA3/D-K(E)	FP-51BA3/D-K(E)	FP-68BA3/D-K(E)	FP-85BA3/D-K(E)
Air flow volume(H/M/L)		m^3/h	450/383/323	650/560/490	360/322/282	550/413/367	680/591/532	850/708/616
		CFM	265/225/190	382/329/288	212/189/166	324/242/215	400/347/312	500/416/362
Capacity	Cooling/Heating	kW	1.4/2.0	3.1/3.3	2.0/2.3	2.5/2.8	3.6/4.1	4.0/4.5
Power system	Power supply	V/Ph/Hz	220-240V~50Hz	220-240V~50Hz	220-240V~50Hz	220-240V~50Hz	220-240V~50Hz	220-240V~50Hz
	Input	kW	0.043	0.069	0.050	0.050	0.060	0.066
Water system	Cooling water flow volume	L/s	0.07	0.15	0.10	0.12	0.17	0.19
		GPM	1.1	2.4	1.6	1.9	2.7	3
	Heating water flow volume	L/s	0.10	0.16	0.11	0.13	0.20	0.21
		GPM	1.6	2.5	1.7	2.1	3.2	3.3
	Cooling pressure drop	kPa	20	53	18	25	52	60
		Ft.WG	6.6	17.4	5.9	8.2	17.1	19.7
	Heating pressure drop	kPa	21	57	20	25	52	60
		Ft.WG	6.9	18.7	6.6	8.2	17.1	19.7
Sound pressure level		dB(A)	42	50	35	40	43	48
Connetion pipe	Water inlet & outlet(inner thread)	Inch	1/2	1/2	1/2	1/2	1/2	1/2
	Condensed water drain(outer thread)	mm	15.6	15.6	15.6	15.6	15.6	15.6
Dimension (W×D×H)	Outline	mm	845×180×275	940×200×298	845×180×275	845×180×275	940×200×298	940×200×298
	Package	mm	915×255×355	1010×285×380	915×255×355	915×255×355	1010×285×380	1010×285×380
Net weight/Gross weight		kg	11/14	13/17	10/12.5	10/12.5	12/16	12/16
Loading quantity	40'GP/40'HQ	Set	765/850	595/671	765/850	765/850	595/671	595/671
Standard	Wireless remote controller	-	YB1FA(MOTO)	YB1FA(MOTO)	YB1FA(MOTO)	YB1FA(MOTO)	YB1FA(MOTO)	YB1FA(MOTO)
Optional	Wired remote controller	-	XE70-17/E(M)	XE70-17/E(M)	XE70-17/E(M)	XE70-17/E(M)	XE70-17/E(M)	XE70-17/E(M)

Model			FP-34BA3/B-K	FP-51BA3/B-K	FP-68BA3/B-K	FP-85BA3/B-K
Air flow volume(H/M/L)		m^3/h	360/322/282	510/413/367	680/591/532	830/708/616
		CFM	212/189/166	300/243/216	400/347/312	489/417/363
Capacity	Cooling/Heating	kW	1.85/2.45	2.65/3.05	3.50/3.85	4.55/4.80
Power system	Power supply	V/Ph/Hz	220-240V~50Hz	220-240V~50Hz	220-240V~50Hz	220-240V~50Hz
	Input	kW	0.03	0.03	0.04	0.06
Water system	Cooling water flow volume	L/s	0.09	0.13	0.17	0.22
		GPM	1.4	2.1	2.7	3.5
	Heating water flow volume	L/s	0.12	0.15	0.18	0.23
		GPM	1.9	2.4	2.9	3.7
	Cooling pressure drop	kPa	13	25	40	65
		Ft.WG	4.3	8.2	13.1	21.3
	Heating pressure drop	kPa	16	27	44	68
		Ft.WG	5.2	8.9	14.4	22.3
Sound pressure level		dB(A)	30	40	43	48
Connetion pipe	Water inlet & outlet(inner thread)	Inch	1/2	1/2	1/2	1/2
	Condensed water drain(outer thread)	mm	15.6	15.6	15.6	15.6
Dimension (W×D×H)	Outline	mm	845×180×275	845×180×275	940×200×298	940×200×298
	Package	mm	915×255×355	915×255×355	1010×285×380	1010×285×380
Net weight/Gross weight		kg	8.8/11.8	8.8/11.8	10.8/14.8	10.8/14.8
Loading quantity	40'GP/40'HQ	Set	765/850	765/850	595/671	595/671
Standard	Wireless remote controller	-	YB1FA(MOTO)	YB1FA(MOTO)	YB1FA(MOTO)	YB1FA(MOTO)
Optional	Wired remote controller	-	XE70-17/E(M)	XE70-17/E(M)	XE70-17/E(M)	XE70-17/E(M)

Model			FP-34BA4/D-K(E)	FP-51BA4/D-K(E)	FP-68BA4/D-K(E)	FP-85BA4/D-K(E)
Air flow volume(H/M/L)		m3/h	360/322/282	550/413/367	680/591/532	850/708/616
		CFM	212/189/166	324/242/215	400/347/312	500/416/362
Capacity	Cooling/Heating	kW	2.0/2.3	2.5/2.8	3.6/4.1	4.0/4.5
Power system	Power supply	V/Ph/Hz	220-240V~50Hz	220-240V~50Hz	220-240V~50Hz	220-240V~50Hz
	Input	kW	0.050	0.050	0.060	0.066
Water system	Cooling water flow volume	L/s	0.10	0.12	0.17	0.19
		GPM	1.6	1.9	2.7	3.0
	Heating water flow volume	L/s	0.11	0.13	0.20	0.21
		GPM	1.7	2.1	3.2	3.3
	Cooling pressure drop	kPa	18	25	52	60
		Ft.WG	5.9	8.2	17.1	19.7
	Heating pressure drop	kPa	20	25	52	60
		Ft.WG	6.6	8.2	17.1	19.7
Sound pressure level		dB(A)	35	40	43	48
Connetion pipe	Water inlet & outlet(inner thread)	Inch	1/2	1/2	1/2	1/2
	Condensed water drain(outer thread)	mm	15.6	15.6	15.6	15.6
Dimension (W×D×H)	Outline	mm	845×180×275	845×180×275	940×200×298	940×200×298
	Package	mm	915×255×355	915×255×355	1010×285×380	1010×285×380
Net weight/Gross weight		kg	10/12.5	10/12.5	12/16	12/16
Loading quantity	40'GP/40'HQ	Set	765/850	765/850	595/671	595/671
Standard	Wireless remote controller	-	YB1FA(MOTO)	YB1FA(MOTO)	YB1FA(MOTO)	YB1FA(MOTO)
Optional	Wired remote controller	-	XE70-17/E(M)	XE70-17/E(M)	XE70-17/E(M)	XE70-17/E(M)

Model			FP-34BA5/D-K(E)	FP-51BA5/D-K(E)	FP-68BA5/D-K(E)	FP-85BA5/D-K(E)
Air flow volume(H/M/L)		m3/h	360/322/282	550/413/367	680/591/532	850/708/616
		CFM	212/189/166	324/242/215	400/347/312	500/416/362
Capacity	Cooling/Heating	kW	2.0/2.3	2.5/2.8	3.6/4.1	4.0/4.5
Power system	Power supply	V/Ph/Hz	220-240V~50Hz	220-240V~50Hz	220-240V~50Hz	220-240V~50Hz
	Input	kW	0.050	0.050	0.060	0.066
Water system	Cooling water flow volume	L/s	0.10	0.12	0.17	0.19
		GPM	1.6	1.9	2.7	3
	Heating water flow volume	L/s	0.11	0.13	0.20	0.21
		GPM	1.7	2.1	3.2	3.3
	Cooling pressure drop	kPa	18	25	52	60
		Ft.WG	5.9	8.2	17.1	19.7
	Heating pressure drop	kPa	20	25	52	60
		Ft.WG	6.6	8.2	17.1	19.7
Sound pressure level		dB(A)	35	40	43	48
Connetion pipe	Water inlet & outlet(inner thread)	Inch	1/2	1/2	1/2	1/2
	Condensed water drain(outer thread)	mm	15.6	15.6	15.6	15.6
Dimension (W×D×H)	Outline	mm	845×180×275	845×180×275	940×200×298	940×200×298
	Package	mm	915×255×355	915×255×355	1010×285×380	1010×285×380
Net weight/Gross weight		kg	10/12.5	10/12.5	12/16	12/16
Loading quantity	40'GP/40'HQ	Set	765/850	765/850	595/671	595/671
Standard	Wireless remote controller	-	YB1FA(MOTO)	YB1FA(MOTO)	YB1FA(MOTO)	YB1FA(MOTO)
Optional	Wired remote controller	-	XE70-17/E(M)	XE70-17/E(M)	XE70-17/E(M)	XE70-17/E(M)

Model			FP-34BB3/A-K(E)	FP-51BB3/A-K(E)	FP-68BB3/A-K(E)	FP-85BB3/A-K(E)
Air flow volume(H/M/L)		m3/h	360/322/282	550/413/367	680/591/532	850/708/616
		CFM	212/189/166	324/242/215	400/347/312	500/416/362
Capacity	Cooling/Heating	kW	1.8/2.3	2.4/2.6	3.5/3.7	4.6/4.9
Power system	Power supply	V/Ph/Hz	220-240V~50Hz	220-240V~50Hz	220-240V~50Hz	220-240V~50Hz
	Input	kW	0.036	0.042	0.051	0.065
Water system	Cooling water flow volume	L/s	0.09	0.11	0.17	0.22
		GPM	1.4	1.7	2.7	3.5
	Heating water flow volume	L/s	0.11	0.12	0.18	0.23
		GPM	1.7	1.9	2.9	3.7
	Cooling pressure drop	kPa	18	25	52	62
		Ft.WG	5.9	8.2	17.1	20.3
	Heating pressure drop	kPa	20	25	52	66
		Ft.WG	6.6	8.2	17.1	21.6
Sound pressure level		dB(A)	35	40	43	48
Connetion pipe	Water inlet & outlet(inner thread)	Inch	1/2	1/2	1/2	1/2
	Condensed water drain(outer thread)	mm	15.6	15.6	15.6	15.6
Dimension (W × D × H)	Outline	mm	845 × 180 × 275	845 × 180 × 275	940 × 200 × 298	940 × 200 × 298
	Package	mm	915 × 255 × 355	915 × 255 × 355	1010 × 285 × 380	1010 × 285 × 380
Net weight/Gross weight		kg	10.0/12.5	10.0/12.5	12.0/16.0	12.0/16.0
Loading quantity	40'GP/40'HQ	Set	765/850	765/850	595/671	595/671
Standard	Wireless remote controller	-	YB1FA(MOTO)	YB1FA(MOTO)	YB1FA(MOTO)	YB1FA(MOTO)
Optional	Wired remote controller	-	XE70-17/E(M)	XE70-17/E(M)	XE70-17/E(M)	XE70-17/E(M)

LOMO – DC

Model			FPD-34BB4/A-K	FPD-51BB4/A-K	FPD-68BB4/A-K	FPD-85BB4/A-K
Air flow volume(H/M/L)		m3/h	340/255/170	510/382/255	680/510/340	850/637/425
		CFM	200/150/100	300/225/150	400/300/200	500/375/250
Capacity	Cooling/Heating	kW	2.2/2.4	2.7/2.9	3.6/3.9	4.3/4.7
Power system	Power supply	V/Ph/Hz	220-240V~50Hz	220-240V~50Hz	220-240V~50Hz	220-240V~50Hz
	Input	kW	0.012	0.018	0.029	0.043
Water system	Cooling water flow volume	L/s	0.10	0.14	0.18	0.21
		GPM	1.6	2.2	2.9	3.3
	Heating water flow volume	L/s	0.11	0.14	0.19	0.22
		GPM	1.7	2.2	3.0	3.5
	Cooling pressure drop	kPa	20	30	43	52
		Ft.WG	6.6	9.8	14.1	17.1
	Heating pressure drop	kPa	24	35	55	65
		Ft.WG	7.9	11.5	18.0	21.3
Sound pressure level		dB(A)	31	37	43	48
Connetion pipe	Water inlet & outlet(inner thread)	Inch	1/2	1/2	1/2	1/2
	Condensed water drain(outer thread)	mm	15.6	15.6	15.6	15.6
Dimension (W × D × H)	Outline	mm	845 × 209 × 289	845 × 209 × 289	845 × 209 × 289	970 × 224 × 300
	Package	mm	973 × 278 × 364	973 × 278 × 364	973 × 278 × 364	1093 × 380 × 305
Net weight/Gross weight		kg	10.5/12.5	10.5/12.5	10.5/12.5	12.5/15.5
Loading quantity	40'GP/40'HQ	Set	604/682	604/682	604/682	461/525
Standard	Wireless remote controller	-	YAP1F	YAP1F	YAP1F	YAP1F
Optional	Wired remote controller	-	XE7A-17/E(M)	XE7A-17/E(M)	XE7A-17/E(M)	XE7A-17/E(M)

Notes：The data are tested under these testing conditions as below:

Item	Nominal test condition (temperature)			
	Inlet Air		Water	
	DB(℃)vv	WB(℃)	Inlet(℃)	Outlet(℃)
Cooling	27	19	7	12
Heating	20	≤ 15	45	40

ERV

The product provides fresh outside air and recovery waste heat from exhaust air leaving conditioned space, to improve indoor air quality, and it is widely used in the application which requires good air quality with energy saving such as supermarket, convenience stores, hotels, stations, hospitals, museum, theaters, ect.

》Multiple operating modes such as bypass, total heat exchange, exhaust air or auto mode, adaptable to demands in different circumstances.

》Reminder for filter cleaning and replacement.

》High static pressure (up to 100Pa) and low noise.

》Five(5) fan speed adjustable, satisfying fresh air demand under different installation environment.

》Independent operation or interlock with VRF.

》Connectable with Gree air box to realized auto controln Gree air box can detect and indicate the indoor air temperature/humidity, PM2.5 and CO2 level, showing the air quality in real time.

Model			FHBQGL-D8DA-K	FHBQGL-D10DA-K	FHBQGL-D15DA-K	FHBQGL-D20DA-K
Air flow volume		m^3 /h	800	1000	1500	2000
External residual pressure		Pa	100	100	100	100
Temperature exchange efficiency		%	73	73	73	73
Enthalpy exchange efficiency	Heating	%	/	/	/	/
	Cooling	%	/	/	/	/
Power supply		Ph/V/Hz	1/220 -240/50			
Power input		kW	0.44	0.54	0.88	1.06
Motor			DC motor	DC motor	DC motor	DC motor
Sound power level		dB(A)	66	67	71	71.5
Dimension (W × D × H)	Outline	mm	1230 × 910 × 384	1230 × 1160 × 384	1230 × 910 × 835	1230 × 1160 × 835
	Package	mm	1570 × 1170 × 557	1570 × 1420 × 557	1570 × 1250 × 1007	1570 × 1500 × 1007
Net weight		kg	82.5	90.5	196.0	214.5
Gross weight		kg	131.5	142.5	265.0	285.0
Loading quantity	40'GP	unit	40	32	18	14
	40'HQ	unit	40	32	18	14
Standard wired controller			Z6L351S	Z6L351S	Z6L351S	Z6L351S

Notes: Gree reserves the right to modify the specifications without prior notice.Please confirm the fimal specifications with sales representatives.

Air Curtain

The air curtain adopts crossflow blower to generate high speed air flow downward, which is usually installed above the entrance door or window, to isolate the indoor air from the outdoor air,reduce the loss of indoor cool air, and prevent insects and dust from entering the indoor environment.

Washable filter

Quiet function

Compact design

Easier maintainability

》Optimized cross-flow fan and good performance motor are adopted.

》Micro processor control with high reliability and long service life.

》Anti-corrosion thanks to two-side painted electro-galvanized metal case.

》High quality galvanized steel casing with double-sided plastic spray processing, high anti-corrosion.

》Solid structure provides powerful airflow.

》With integrated electric components,easy maintenance.

》High performance cross flow fan blade with 3D-optimized streamlined.

Item	Working condition parameters
Dry bulb temperature of inlet air ℃	5~40

Model			FM-1.25-9-K	FM-1.25-12-K
Air flow volume		m^3/h	1200	1650
Power supply		Ph/V/Hz	220-240V~50Hz	220-240V~50Hz
Power input		kW	110	140
Sound pressure level		dB(A)	59	61
"Dimension (W × D × H)"	Outline	mm	900 × 225 × 220	1200 × 225 × 220
	Package	mm	1015 × 270 × 256	1315 × 270 × 256
Net weight		kg	16	20
Gross weight		kg	17.5	21.8
Loading quantity	40'GP/40'HQ	unit	776/873	544/612
Wireless remote controller			ZY611(MC)	ZY611(MC)

Control System Lineup

series / Control system	Product		Concealed ceiling type(2 Pipes)	Concealed ceiling type(4 Pipes)	Cassette type	Floor ceiling type	Wall mounted type	Wall-mounted type (Lomo-DC)	ERV	Air curtain
Wireless remote controller	YB1FA(MOTO)				●	●	●			
	YAP1F							●		
	ZY611(MC)									●
Wired remote controller	XE7A-17/E(M)							○		
	XE70-17/E(M) (with BMS interface)				○	○	○			
	Z6L351S								●	
Digital thermostat	WK-011PM		○							
	WK-011PN			○						
	WK-010PM		○							
	WK-010PN			○						
	WK-010PV		○							
	WK-010PW		○							
	WK-010PR			○						
	WK-010PS			○						

Note:
● means standard, ○ means optional

OVERALL PLAN OF GREE ELETRIC APPLIANCES

Total Employees
80,000+

Engineers
16,000+

Labs
1,411

Countries/Regions
180+

HVAC EQUIPMENT

RAC

CAC

Refrigeration Equipment

Heating Equipment

AC for Nuclear Power Stations

Photovoltaic AC

HOME APPLIANCES

Kitchen Appliances

Environmental Appliances

Washing Machines

Refrigerators

HIGH-END EQUIPMENT

Intelligent Equipment

Industrial Robots

Numerical Control Machine Tools

Precision Mould

COMMUNICATION EQUIPMENT

The Internet of Things

Smart Phones

Chips

Big Data

ISO 9001 Quality System Certificate

ISO 14001 Environment Management System Certificate

ISO 45001 Occupational Health and Safety System Certificate

CSA Certificate

Germany TÜV Certificate

CCC Certificate

Australia RCM Certificate

CQC Certificate

European Communities CE Certificate

UL Certificate

Energy Conservation Certificate

EQM

SASO Certificate

Mexico NOM Safety Certificate

ETL Certificate

Australia SAA Certificate

Germany GS Certificate

MCS Certificate

EUROVENT

GCC Certificate

HongKong EMSD Certificate

HongKong Safety Certificate

KeyMark Certificate

Thailand TISI Certificate