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HONG KONG GREE ELECTRIC APPLIANCES SALES LIMITED

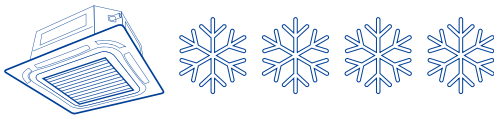
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Note:
Gree is committed to continuously improving its products to ensure the highest quality and reliability standards, and to meet local regulations and market requirements.
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Distributor information



CAC

— EU

T1 50/60Hz
R32/R410A/R134a

ABOUT GREE

Gree Electric Appliances, Inc. of Zhuhai was founded in 1991 and it 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 ed technological global industrial group that has expanded its business to air conditioners, home appliances, high-end equipment and communication equipment. Gree products are sold widely to more than 200 countries and regions.

- 2005: Gree has topped No.1 in production and sales volume of residential air conditioners for 15 consecutive years.
- 2015: Gree’s sales revenue exceeded 15.08 billion USD.
- 2016: Gree’s sales revenue exceeded 16.51 billion USD.
- 2017: Gree’s sales revenue exceeded 22.21 billion USD.
- 2018: Gree entered into the list of Forbes Global 2000 again and ranked No. 294, moving up 70 places compared with the previous year. Gree’ s sales revenue exceeded 30.23 billion USD.
- 2019: Gree has ranked the 414th on the list of Fortune Global 500.

Thanks to 300 million users ' choices, Gree products are widely sold in more than 200 countries and regions. Today Gree's annual production capacity of RAC and CAC is more than 60 million and 6 million sets respectively.

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

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SOME PARTS



Golden fin condenser

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



Inner groove copper

Special thickened inner groove copper tube enhances heat exchanging performance.



Built-in drain pump

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



Washable filter

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



Quality motor

Quality motor makes operation steady and in low noise.



Auxiliary electric heater

Auxiliary heater greatly improves heating capacity and saves energy.



Slave and master wired controller

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



Long connection pipe design

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

COMFORTABLE & HEALTHY



Vertical swing

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



Horizontal swing

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



Anti-cold function

The indoor unit will not blow in the winter if the air is not warm enough.



Turbo function

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



Fresh air supply ventilation

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



Comfortable sleeping mode

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



Quiet function

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

HIGH EFFICIENCY & ENERGY SAVING



High efficiency

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



Intelligent defrosting

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



Energy saving function

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



All DC inverter technology

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

CONVENIENCE



Memory function

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



Compact design

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



Easier maintainability

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



Auto addressing technology

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

RELIABILITY



Auto clean

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



Self-diagnosis

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



Low voltage startup

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



Low temperature heating

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



Modular operating

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



Comprehensive protection

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

VERSATILITY



High ESP

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



Wide voltage range

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



Wide operation range

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



Multi fan speed

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



Modular structure

High efficiency compressor presents reliable performance.

CONTROLLER



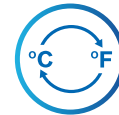
24 hour timer

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



Weekly timer

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



°C/°F switch

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



Clock display

Time is shown on remote controller.



Child lock

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



Key-card control

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



Centralized control

Starts, stops and regulates the air conditioner from a distance.



Long-distance monitoring

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



Shield function

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



Human engineering operation

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



Floor Heating Debugging

LIGHT COMMERCIAL AC

U-Match

Big Duct Type Unit

U-Match



It is a kind of split system that the outdoor unit can be freely connected to different types of indoor units according to various indoor decoration requirements.

Easier maintainability

Energy saving function

Compact design

High efficiency

Intelligent defrosting

Wide operation range

Comfortable sleeping mode

Quiet function

- › Adopt eco-friendly refrigerant R32. GWP of R32 is 68% lower than that of R410A, and charging quantity is reduced by 30% compared to R410A.
- › High energy efficiency. SEER in cooling is up to 7.2, and SCOP in heating is up to 4.0. Power consumption in standby status is only 1W.
- › Wide operation range. Cooling operation range is from -20 ℃ (DB)~48 ℃ (DB), and heating operation range is from -20 ℃ (DB)~24 ℃ (DB).
- › Smart control including APP control, long-distance control and centralized control.

Indoor Unit



- Duct type

 - › DC motor, energy-saving and high efficiency.
 - › Fresh air unit can be connected.
 - › Lift of water pump is 1000mm.
 - › Energy efficiency can be up to A++ in cooling season and A+ in heating season.
- Floor ceiling type

 - › DC motor, energy-saving and high efficiency.
 - › Fresh air unit can be connected.
 - › Lift of water pump is 1000mm.
 - › Energy efficiency can be up to A++ in cooling season and A+ in heating season.

- Cassette type

 - › 360° air discharge for balance room temperature.
 - › DC motor and DC water pump, energy-saving and high efficiency.
 - › Fresh air unit can be connected.
 - › Lift of water pump is 1000mm.
 - › Energy efficiency can be up to A++ in cooling season and A+ in heating season.
- Wall-mounted

 - › DC motor, energy-saving and high-efficiency.
 - › Energy efficiency can be up to A++ in cooling season and A+ in heating season.

Item	Nominal operating condition (temperature)				Operating range (temperature)		
	Outdoor condition		Indoor condition		Outdoor condition	Indoor condition	
	DB(℃)	WB(℃)	DB(℃)	WB(℃)	DB(℃)	DB(℃)	WB(℃)
Cooling	35	24	27	19	-20 ~ 48	32	23
Heating	7	6	20	15	-20 ~ 24	27	-

Indoor Units Lineup

Capacity index (kW)		3.5	5	7.1	8.5			
Outdoor unit	Model	GUD35W/NhA-T	GUD50W/NhA-T	GUD71W/NhA-T	GUD85W/NhA-T			
	Picture							
Indoor unit	Duct	Model	GUD35P/A-T (GUD35PS/A-T)	GUD50P/A-T (GUD50PS/A-T)	GUD71P/A-T GUD71PS/A-T	GUD71PH/A-T GUD71PHS/A-T	GUD85P/A-T GUD85PS/A-T	GUD85PH/A-T GUD85PHS/A-T
		Picture						
	Cassette	Model	GUD35T/A-T	GUD50T/A-T	GUD71T/A-T	GUD85T/A-T		
		Picture						
	Floor ceiling	Model	GUD35ZD/A-T	GUD50ZD/A-T	GUD71ZD/A-T	GUD85ZD/A-T		
		Picture						
	Floor standing	Model	-	-	GUD71L/A-T	-		
		Picture	-	-		-		

Capacity index (kW)		10	12.5	14	16	
Outdoor unit	Model	GUD100W/NhA-T (GUD100W/NhA-X)	GUD125W/NhA-T (GUD125W/NhA-X)	GUD140W/NhA-T (GUD140W/NhA-X)	GUD160W/NhA-X	
	Picture					
Indoor unit	Duct	Model	GUD100PH/A-T (GUD100PHS/A-T)	GUD125PH/A-T (GUD125PHS/A-T)	GUD140PH/A-T (GUD140PHS/A-T)	GUD160PH/A-T (GUD160PHS/A-T)
		Picture				
	Cassette	Model	GUD100T/A-T	GUD125T/A-T	GUD140T/A-T	GUD160T/A-T
		Picture				
	Floor ceiling	Model	GUD100ZD/A-T	GUD125ZD/A-T	GUD140ZD/A-T	GUD160ZD/A-T
		Picture				
Wall-mounted	Model	GUD100G/A-T	-			
	Picture		-			
Floor standing	Model	GUD100L/A-T	GUD125L/A-T	GUD140L/A-T	-	
	Picture				-	

Model	Outdoor unit		GUD35W/NhA-T				
	Indoor unit		Duct		Cassette	Floor ceiling	
			GUD35P/A-T	GUD35PS/A-T	GUD35T/A-T	GUD35ZD/A-T	
Capacity	Cooling	kW	3.50	3.50	3.50	3.50	
		Btu/h	11900	11900	11900	11900	
	Heating	kW	4.00	4.00	4.00	4.00	
		Btu/h	13600	13600	13600	13600	
SEER/SCOP		-	6.1/4.0	6.1/4.0	5.9/4.0	6.7/4.0	
Energy efficiency grade (Cooling/Heating)		-	A++/A+	A++/A+	A+/A+	A++/A+	
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	Cooling	kW	0.95	0.95	1.00	0.90	
	Heating	kW	1.05	1.05	1.05	0.95	
Current input	Cooling	A	4.18	4.18	4.50	4.00	
	Heating	A	4.70	4.70	4.70	4.20	
Refrigerant charge volume		kg	0.78	0.78	0.78	0.78	
Loading quantity		40'GP/40'HQ	set	141/164	120/139	110/132	
Indoor unit	Air flow volume(SH/H/M/L)		CFM	383/353/300/265	383/353/300/265	382/341/282/235	383/359/312/271
			m³/h	650/600/510/450	650/600/510/450	650/580/480/400	650/610/530/460
	ESP	Rated	Pa	25	25	-	-
		Range	Pa	0-60	0-60	-	-
	Sound pressure level(SH/H/M/L)		dB(A)	41/38/36/34	41/38/36/34	41/39/36/33	39/36/32/28
	Dimension (W×D×H)	Outline	mm	700×450×200	700×450×200	570×570×265	870×665×235
		Package	mm	1008×568×275	1008×568×275	698×653×295	1033×770×300
Net weight/Gross weight		kg	19.0/23.0	20.0/24.0	17.0/22.0	25.0/30.0	
Panel	Dimension (W×D×H)	Outline	mm	-	-	620×620×47.5	-
		Package	mm	-	-	701×701×125	-
	Net weight/Gross weight		kg	-	-	3.0/4.5	-
Outdoor unit	Sound pressure level		dB(A)	50/—/—	50/—/—	50/—/—	50/—/—
	Dimension (W×D×H)	Outline	mm	818×302×596	818×302×596	818×302×596	818×302×596
		Package	mm	948×420×645	948×420×645	948×420×645	948×420×645
	Net weight/Gross weight		kg	37.0/40.0	37.0/40.0	37.0/40.0	37.0/40.0
Connecting pipe	Outdoor diameter	Liquid	inch	1/4"	1/4"	1/4"	1/4"
		Gas	inch	3/8"	3/8"	3/8"	3/8"
	Max. distance	Height/Length	m	15/30	15/30	15/30	15/30

Model	Outdoor unit			GUD50W/NhA-T			
	Indoor unit			Duct		Cassette	Floor ceiling
				GUD50P/A-T	GUD50PS/A-T	GUD50T/A-T	GUD50ZD/A-T
Capacity	Cooling	kW	5.00	5.00	5.00	5.00	
		Btu/h	17000	17000	17000	17000	
	Heating	kW	5.50	5.50	5.50	5.50	
		Btu/h	18700	18700	18700	18700	
SEER/SCOP		-	6.1/4.0	6.1/4.0	5.9/4.0	6.1/4.0	
Energy efficiency grade (Cooling/Heating)		-	A++/A+	A++/A+	A+/A+	A++/A+	
Power supply		V/Ph/Hz	220-240V ~ 50Hz & 208-230V ~ 60Hz				
Power input	Cooling	kW	1.55	1.55	1.56	1.55	
	Heating	kW	1.45	1.45	1.65	1.60	
Current input	Cooling	A	6.30	6.30	6.83	6.50	
	Heating	A	6.00	6.00	7.24	6.90	
Refrigerant charge volume		kg	1.00	1.00	1.00	1.00	
Loading quantity		40'GP/40'HQ	set	126/147	126/147	120/139	110/132
Indoor unit	Air flow volume(SH/H/M/L)		CFM	559/518/483/412	559/518/483/412	412/341/282/235	500/471/412/353
			m³/h	950/880/820/700	950/880/820/700	700/580/480/400	850/800/700/600
	ESP	Rated	Pa	25	25	-	-
		Range	Pa	0-60	0-60	-	-
	Sound pressure level(SH/H/M/L)		dB(A)	43/42/39/36	43/42/39/36	44/39/36/33	44/42/39/36
	Dimension (W×D×H)	Outline	mm	1000×450×200	1000×450×200	570×570×265	870×665×235
		Package	mm	1308×568×275	1308×568×275	698×653×295	1033×770×300
Net weight/Gross weight		kg	25.0/30.0	26.0/31.0	17.0/22.0	26.0/31.0	
Panel	Dimension (W×D×H)	Outline	mm	-	-	620×620×47.5	-
		Package	mm	-	-	701×701×125	-
	Net weight/Gross weight		kg	-	-	3.0/4.5	-
Outdoor unit	Sound pressure level		dB(A)	53/—/—	53/—/—	53/—/—	53/—/—
	Dimension (W×D×H)	Outline	mm	818×302×596	818×302×596	818×302×596	818×302×596
		Package	mm	948×420×645	948×420×645	948×420×645	948×420×645
	Net weight/Gross weight		kg	39.0/42.0	39.0/42.0	39.0/42.0	39.0/42.0
	Connecting pipe	Outdoor diameter	Liquid	inch	1/4"	1/4"	1/4"
Gas			inch	1/2"	1/2"	1/2"	1/2"
Max. distance		Height/Length	m	20/35	20/35	20/35	20/35

Model	Outdoor unit		GUD71W/NhA-T				
	Indoor unit		Duct				
			GUD71P/A-T	GUD71PS/A-T	GUD71PH/A-T	GUD71PHS/A-T	
Capacity	Cooling	kW	7.00	7.00	7.0	7.0	
		Btu/h	23800	23800	23800	23800	
	Heating	kW	8.00	8.00	8.0	8.0	
		Btu/h	27200	27200	27200	27200	
SEER/SCOP		-	6.8/4.0	6.8/4.0	6.8/4.0	6.8/4.0	
Energy efficiency grade (Cooling/Heating)		-	A++/A+	A++/A+	A++/A+	A++/A+	
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	Cooling	kW	2.10	2.10	1.94	1.94	
	Heating	kW	2.25	2.25	2.11	2.11	
Current input	Cooling	A	8.70	8.70	8.5	8.5	
	Heating	A	9.50	9.50	9.3	9.3	
Refrigerant charge volume		kg	1.60	1.60	1.6	1.6	
Loading quantity		40'GP/40'HQ	set	92/105	91/104	91/104	
Indoor unit	Air flow volume(SH/H/M/L)		CFM	706/682/641/553	706/682/641/553	677/647/589/530	677/647/589/530
			m³/h	1200/1160/1090/940	1200/1160/1090/940	1150/1100/1000/900	1150/1100/1000/900
	ESP	Rated	Pa	25	25	25	25
		Range	Pa	0-75	0-75	0-125	0-125
	Sound pressure level(SH/H/M/L)		dB(A)	40/39/37/36	40/39/37/36	39/38/37/36	39/38/37/36
	Dimension (W×D×H)	Outline	mm	1300×450×220	1300×450×220	900×655×260	900×655×260
		Package	mm	1628×578×300	1628×578×300	1158×788×310	1158×788×310
	Net weight/Gross weight		kg	30.0/37.0	31.0/38.0	31.0/39.0	32.0/40.0
Panel	Dimension (W×D×H)	Outline	mm	-	-	-	-
		Package	mm	-	-	-	-
	Net weight/Gross weight		kg	-	-	-	-
Outdoor unit	Sound pressure level		dB(A)	52/—/—	52/—/—	52	52
	Dimension (W×D×H)	Outline	mm	892×340×698	892×340×698	892×340×698	892×340×698
		Package	mm	1029×458×750	1029×458×750	1029×458×750	1029×458×750
	Net weight/Gross weight		kg	53.0/57.0	53.0/57.0	53/57	53/57
Connecting pipe	Outdoor diameter	Liquid	inch	3/8"	3/8"	3/8"	3/8"
		Gas	inch	5/8"	5/8"	5/8"	5/8"
	Max. distance	Height/Length	m	25/50	25/50	25/50	25/50

Model	Outdoor unit		GUD71W/NhA-T				
	Indoor unit		Cassette		Floor ceiling	Wall-mounted	Floor standing
			GUD71T/A-T		GUD71ZD/A-T	GUD71G/A-T*	GUD71L/A-T*
Capacity	Cooling	kW	7.00	7.00	6.5	7.0	
		Btu/h	23800	23800	22000	24000	
	Heating	kW	8.00	8.00	7.5	8.0	
		Btu/h	27200	27200	25600	27000	
SEER/SCOP		-	7.2/3.9	6.8/3.9	6.1/4.1	6.1/4.0	
Energy efficiency grade (Cooling/Heating)		-	A++/A	A++/A	A++/A+	A++/A+	
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	Cooling	kW	2.05	1.90	2.1	2.1	
	Heating	kW	2.20	2.45	2.25	2.25	
Current input	Cooling	A	8.8	8.60	8.7	8.7	
	Heating	A	9.5	10.50	9.5	9.5	
Refrigerant charge volume		kg	1.6	1.60	1.6	1.6	
Loading quantity		40'GP/40'HQ	set	67/78	90/92	118/131	47/47
Indoor unit	Air flow volume(SH/H/M/L)		CFM	647/618/565/512	765/718/641/553	735	647
			m³/h	1100/1050/960/870	1300/1220/1090/940	1250	1100
	ESP	Rated	Pa	-	-	-	-
		Range	Pa	-	-	-	-
	Sound pressure level(SH/H/M/L)		dB(A)	43/42/40/39	45/44/41/38	44	54
	Dimension (W×D×H)	Outline	mm	840×840×240	1200×665×235	1078×246×325	1870×580×395
		Package	mm	963×963×325	1363×770×300	1148×413×350	2153×738×545
Net weight/Gross weight		kg	29.0/36.0	31.0/37.0	16/20	56/63	
Panel	Dimension (W×D×H)	Outline	mm	950×950×52	-	-	-
		Package	mm	1033×1038×112	-	-	-
	Net weight/Gross weight		kg	6.0/9.5	-	-	-
Outdoor unit	Sound pressure level		dB(A)	52/—/—	52/—/—	52	52
	Dimension (W×D×H)	Outline	mm	892×340×698	892×340×698	892×340×698	892×340×698
		Package	mm	1029×458×750	1029×458×750	1029×458×750	1029×458×750
	Net weight/Gross weight		kg	53.0/57.0	53.0/57.0	53/57	53/57
Connecting pipe	Outdoor diameter	Liquid	inch	3/8"	3/8"	3/8"	3/8"
		Gas	inch	5/8"	5/8"	5/8"	5/8"
	Max. distance	Height/Length	m	25/50	25/50	50/75	25/50

Model	Outdoor unit		GUD85W/NhA-T				
	Indoor unit		Duct				
			GUD85P/A-T	GUD85PS/A-T	GUD85PH/A-T	GUD85PHS/A-T	
Capacity	Cooling	kW	8.50	8.50	8.50	8.50	
		Btu/h	29000	29000	29000	29000	
	Heating	kW	8.80	8.80	8.80	8.80	
		Btu/h	30000	30000	30000	30000	
SEER/SCOP		-	6.1/4.0	6.1/4.0	6.1/3.9	6.1/3.9	
Energy efficiency grade (Cooling/Heating)		-	A++/A+	A++/A+	A++/A	A++/A	
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	Cooling	kW	2.70	2.70	2.58	2.58	
	Heating	kW	2.55	2.55	2.38	2.38	
Current input	Cooling	A	12.10	12.10	11.80	11.80	
	Heating	A	11.10	11.10	10.90	10.90	
Refrigerant charge volume		kg	1.80	1.80	1.80	1.80	
Loading quantity		40'GP/40'HQ	set	80/92	80/92	73/88	73/88
Indoor unit	Air flow volume(SH/H/M/L)		CFM	883/794/665/559	883/794/665/559	883/765/647/589	883/765/647/589
			m³/h	1500/1350/1130/950	1500/1350/1130/950	1500/1300/1100/1000	1500/1300/1100/1000
	ESP	Rated	Pa	37	37	37	37
		Range	Pa	0-75	0-75	0-125	0-125
	Sound pressure level(SH/H/M/L)		dB(A)	42/40/37/35	42/40/37/35	42/41/39/38	42/41/39/38
	Dimension (W×D×H)	Outline	mm	1300×450×220	1300×450×220	900×655×260	900×655×260
		Package	mm	1628×578×300	1628×578×300	1158×788×310	1158×788×310
Net weight/Gross weight		kg	30.0/37.0	31.0/38.0	31/39	32/40	
Panel	Dimension (W×D×H)	Outline	mm	-	-	-	-
		Package	mm	-	-	-	-
	Net weight/Gross weight		kg	-	-	-	-
Sound pressure level		dB(A)	53/—/—	53/—/—	53	53	
Outdoor unit	Dimension (W×D×H)	Outline	mm	920×370×790	920×370×790	920×370×790	920×370×790
		Package	mm	1083×488×855	1083×488×855	1083×488×855	1083×488×855
	Net weight/Gross weight		kg	60.0/65.0	60.0/65.0	60.0/65.0	60.0/65.0
Connecting pipe	Outdoor diameter	Liquid	inch	3/8"	3/8"	3/8"	3/8"
		Gas	inch	5/8"	5/8"	5/8"	5/8"
	Max. distance	Height/Length	m	25/50	25/50	25/50	25/50

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.

Model	Outdoor unit		GUD85W/NhA-T			
	Indoor unit		Cassette	Floor ceiling	Wall-mounted	
			GUD85T/A-T	GUD85ZD/A-T	GUD85G/A-T*	
Capacity	Cooling	kW	8.50	8.50	8.50	
		Btu/h	29000	29000	29000	
	Heating	kW	8.80	8.80	8.80	
		Btu/h	30000	30000	30000	
SEER/SCOP		-	6.1/4.0	6.1/4.0	6.1/4.0	
Energy efficiency grade (Cooling/Heating)		-	A++/A+	A++/A+	A++/A+	
Power supply		V/Ph/Hz	220-240V ~ 50Hz & 208-230V ~ 60Hz			
Power input	Cooling	kW	2.80	2.80	2.60	
	Heating	kW	2.65	2.65	2.45	
Current input	Cooling	A	12.7	12.70	11.30	
	Heating	A	11.7	11.70	10.60	
Refrigerant charge volume		kg	1.80	1.80	1.80	
Loading quantity		40'GP/40'HQ	set	58/69	72/85	80/95
Indoor unit	Air flow volume(SH/H/M/L)		CFM	824/771/694/612	883/812/706/600	764/705/558/529
			m³/h	1400/1310/1180/1040	1500/1380/1200/1020	1300/1200/1100/900
	ESP	Rated	Pa	-	-	-
		Range	Pa	-	-	-
	Sound pressure level(SH/H/M/L)		dB(A)	49/47/44/41	49/47/43/39	46/44/42/40
	Dimension (W×D×H)	Outline	mm	840×840×240	1200×665×235	1350×253×326
		Package	mm	963×963×325	1363×770×300	1441×421×367
	Net weight/Gross weight		kg	29.0/36.0	31.0/37.0	19/24
Panel	Dimension (W×D×H)	Outline	mm	950×950×52	-	-
		Package	mm	1033×1038×112	-	-
	Net weight/Gross weight		kg	6.0/9.5	-	-
Outdoor unit	Sound pressure level		dB(A)	53/—/—	53/—/—	53
	Dimension (W×D×H)	Outline	mm	920×370×790	920×370×790	920×370×790
		Package	mm	1083×488×855	1083×488×855	1083×488×855
	Net weight/Gross weight		kg	60.0/65.0	60.0/65.0	60.0/65.0
Connecting pipe	Outdoor diameter	Liquid	inch	3/8"	3/8"	3/8"
		Gas	inch	5/8"	5/8"	5/8"
	Max. distance	Height/Length	m	25/50	25/50	25/50

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.

Model	Outdoor unit		GUD100W/NhA-T						
			Duct		Cassette	Floor ceiling	Wall-mounted	Floor standing	
	Indoor unit		GUD100PH/A-T	GUD100PHS/A-T	GUD100T/A-T	GUD100ZD/A-T	GUD100G/A-T ⁺	GUD100L/A-T ⁺	
Capacity	Cooling	kW	10.00	10.00	10.00	10.00	9.5	10	
		Btu/h	34100	34100	34100	34100	32000	34100	
	Heating	kW	12.00	12.00	12.00	12.00	10.5	12	
		Btu/h	40900	40900	40900	40900	35800	41000	
SEER/SCOP		-	6.1/4.0	6.1/4.0	6.1/4.0	6.1/4.0	6.1/4.0	6.1/4.0	
Energy efficiency grade (Cooling/Heating)		-	A++/A+	A++/A+	A++/A+	A++/A+	A++/A+	A++/A+	
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	220-240V ~ 50Hz & 208-230V ~ 60Hz	220-240V ~ 50Hz & 208-230V ~ 60Hz	
Power input	Cooling	kW	3.20	3.20	3.15	3.30	3.2	3.2	
	Heating	kW	3.40	3.40	3.55	3.60	3.4	3.4	
Current input	Cooling	A	13.90	13.90	13.80	14.50	12.1	13.9	
	Heating	A	15.20	15.20	15.70	15.90	9.5	15.2	
Refrigerant charge volume		kg	2.50	2.50	2.50	2.50	2.50	2.50	
Loading quantity		40°GP/40°HQ	set	60/62	60/62	53/62	57/68	72/87	36/42
Indoor unit	Air flow volume(SH/H/M/L)		CFM	1059/894/812/747	1059/894/812/747	883/865/812/718	942/883/794/742	941	970
			m³/h	1800/1520/1380/1270	1800/1520/1380/1270	1500/1470/1380/1220	1600/1500/1350/1260	1600	1650
	ESP	Rated	Pa	37	37	-	-	-	-
		Range	Pa	0-150	0-150	-	-	-	-
	Sound pressure level(SH/H/M/L)		dB(A)	46/44/42/40	46/44/42/40	50/48/46/42	49/47/45/43	50	56
	Dimension (W×D×H)	Outline	mm	1000×700×300	1000×700×300	840×840×240	1200×665×235	1350×253×326	1870×580×395
		Package	mm	1205×813×360	1205×813×360	963×963×325	1363×770×300	1441×421×367	2153×738×545
	Net weight/Gross weight		kg	40.0/46.0	41.0/47.0	31.0/38.0	32.0/38.0	19/24	56/63
Panel	Dimension (W×D×H)	Outline	mm	-	-	950×950×52	-	-	-
		Package	mm	-	-	1033×1038×112	-	-	-
	Net weight/Gross weight		kg	-	-	6.0/9.5	-	-	-
Outdoor unit	Sound pressure level		dB(A)	55/—/—	55/—/—	55/—/—	55/—/—	55	55
	Dimension (W×D×H)	Outline	mm	940×460×820	940×460×820	940×460×820	940×460×820	940×460×820	940×460×820
		Package	mm	1083×573×973	1083×573×973	1083×573×973	1083×573×973	1073×563×868	1073×563×868
	Net weight/Gross weight		kg	83/95	83/95	83.0/95.0	83.0/95.0	83/95	83/95
Connecting pipe	Outdoor diameter	Liquid	inch	3/8"	3/8"	3/8"	3/8"	3/8	3/8
		Gas	inch	5/8"	5/8"	5/8"	5/8"	5/8	5/8
	Max.distance	Height/Length	m	30/65	30/65	30/65	30/65	65/75	30/65

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Model	Outdoor unit			GUD100W/NhA-X			
	Indoor unit			Duct		Cassette	Floor ceiling
				GUD100PH/A-T	GUD100PHS/A-T	GUD100T/A-T	GUD100ZD/A-T
Capacity	Cooling	kW	10.00	10.00	10.00	10.00	
		Btu/h	34100	34100	34100	34100	
	Heating	kW	12.00	12.00	12.00	12.00	
		Btu/h	40900	40900	40900	40900	
SEER/SCOP		-	6.1/4.0	6.1/4.0	6.1/4.0	6.1/4.0	
Energy efficiency grade (Cooling/Heating)		-	A++/A+	A++/A+	A++/A+	A++/A+	
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	3.15	3.15	3.00	3.30	
	Heating	kW	3.50	3.50	3.40	3.50	
Current input	Cooling	A	4.80	4.80	5.00	5.10	
	Heating	A	5.60	5.60	5.30	5.60	
Refrigerant charge volume		kg	2.50	2.50	2.50	2.50	
Loading quantity		set	60/62	60/62	53/62	57/68	
Indoor unit	Air flow volume(SH/H/M/L)		CFM	1059/894/812/747	1059/894/812/747	883/865/812/718	942/883/794/742
			m³/h	1800/1520/1380/1270	1800/1520/1380/1270	1500/1470/1380/1220	1600/1500/1350/1260
	ESP	Rated	Pa	37	37	-	-
		Range	Pa	0-150	0-150	-	-
	Sound pressure level(SH/H/M/L)		dB(A)	46/44/42/40	46/44/42/40	50/48/46/42	49/47/45/43
	Dimension (W×D×H)	Outline	mm	1000×700×300	1000×700×300	840×840×240	1200×665×235
		Package	mm	1205×813×360	1205×813×360	963×963×325	1363×770×300
	Net weight/Gross weight		kg	40.0/46.0	41.0/47.0	31.0/38.0	32.0/38.0
Panel	Dimension (W×D×H)	Outline	mm	-	-	950×950×52	-
		Package	mm	-	-	1033×1038×112	-
	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	940×460×820	940×460×820	940×460×820	940×460×820
		Package	mm	1083×573×973	1083×573×973	1083×573×973	1083×573×973
	Net weight/Gross weight		kg	89.0/101.0	89.0/101.0	89.0/101.0	89.0/101.0
Connecting pipe	Outdoor diameter	Liquid	inch	3/8"	3/8"	3/8"	3/8"
		Gas	inch	5/8"	5/8"	5/8"	5/8"
Max. distance		Height/Length	m	30/65	30/65	30/65	30/65

Model	Outdoor unit		GUD125W/NhA-T					
	Indoor unit		Duct		Cassette	Floor ceiling	Floor standing	
			GUD125PH/A-T	GUD125PHS/A-T	GUD125T/A-T	GUD125ZD/A-T	GUD125L/A-T*	
Capacity	Cooling	kW	12.10	12.10	12.10	12.10	12	
		Btu/h	41200	41200	41200	41200	41000	
	Heating	kW	13.50	13.50	13.50	13.50	13.5	
		Btu/h	46000	46000	46000	46000	46000	
SEER/SCOP		-	5.8/3.8	5.8/3.8	6.1/3.8	6.1/3.8	6.1/4.0	
Energy efficiency grade (Cooling/Heating)		-	A+/A	A+/A	A++/A	A++/A	A++/A+	
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	220-240V ~ 50Hz & 208-230V ~ 60Hz	
Power input	Cooling	kW	4.10	4.10	4.10	3.90	4.10	
	Heating	kW	4.10	4.10	4.20	3.95	4.10	
Current input	Cooling	A	17.90	17.90	17.50	15.70	17.90	
	Heating	A	17.00	17.00	18.00	16.80	17.00	
Refrigerant charge volume		kg	2.65	2.65	2.65	2.65	2.65	
Loading quantity		40'GP/40'HQ	set	52/56	52/56	48/53	54/62	
Indoor unit	Air flow volume(SH/H/M/L)		CFM	1177/1018/924/824	1177/1018/924/824	1059/995/865/742	1059/1000/906/824	970
			m³/h	2000/1730/1570/1400	2000/1730/1570/1400	1800/1690/1470/1260	1800/1700/1540/1400	1650
	ESP	Rated	Pa	50	50	-	-	0
		Range	Pa	0-150	0-150	-	-	0
	Sound pressure level(SH/H/M/L)		dB(A)	42/40/39/37	42/40/39/37	51/49/46/42	49/47/44/42	56
	Dimension (W×D×H)	Outline	mm	1400×700×300	1400×700×300	840×840×290	1570×665×235	1870x580x395
		Package	mm	1601×813×365	1601×813×365	963×963×379	1729×770×300	2153x738x545
	Net weight/Gross weight		kg	49.0/55.0	50.0/56.0	33.0/41.0	40.0/47.0	59/66
Panel	Dimension (W×D×H)	Outline	mm	-	-	950×950×52	-	-
		Package	mm	-	-	1033×1038×112	-	-
	Net weight/Gross weight		kg	-	-	6.0/9.5	-	-
Outdoor unit	Sound pressure level		dB(A)	55/—/—	55/—/—	55/—/—	55/—/—	55
	Dimension (W×D×H)	Outline	mm	940×460×820	940×460×820	940×460×820	940×460×820	940×460×820
		Package	mm	1083×573×973	1083×573×973	1083×573×973	1083×573×973	1073×563×868
	Net weight/Gross weight		kg	91/103	91/103	91.0/103.0	91.0/103.0	91/103
Connecting pipe	Outdoor diameter	Liquid	inch	3/8"	3/8"	3/8"	3/8"	3/8"
		Gas	inch	5/8"	5/8"	5/8"	5/8"	5/8"
	Max. distance	Height/Length	m	30/75	30/75	30/75	30/75	30/75

Model	Outdoor unit			GUD140W/NhA-T				
	Indoor unit		Duct		Cassette	Floor ceiling	Floor standing	
			GUD140PH/A-T	GUD140PHS/A-T	GUD140T/A-T	GUD140ZD/A-T	GUD140L/A-T*	
Capacity	Cooling	kW	13.40	13.40	13.40	13.40	13.4	
		Btu/h	45700	45700	45700	45700	45700	
	Heating	kW	15.50	15.50	15.50	15.50	16	
		Btu/h	52800	52800	52800	52800	55000	
SEER/SCOP		-	6.1/3.6	6.1/3.6	6.1/3.6	6.1/3.7	6.1/4.0	
Energy efficiency grade (Cooling/Heating)		-	A++/A	A++/A	A++/A	A++/A	A++/A+	
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	220-240V ~ 50Hz & 208-230V ~ 60Hz	
Power input	Cooling	kW	4.45	4.45	4.65	4.40	4.65	
	Heating	kW	4.60	4.60	4.35	4.35	4.35	
Current input	Cooling	A	19.90	19.90	20.80	19.50	19.5	
	Heating	A	20.40	20.40	19.50	19.40	19.4	
Refrigerant charge volume		kg	2.80	2.80	2.80	2.80	2.80	
Loading quantity		40'GP/40'HQ	set	52/56	52/56	48/53	54/62	
Indoor unit	Air flow volume(SH/H/M/L)		CFM	1295/1177/1018/877	1295/1177/1018/877	1118/995/871/671	1236/1177/1059/871	1058
			m³/h	2200/2000/1730/1490	2200/2000/1730/1490	1900/1690/1480/1140	2100/2000/1800/1480	1800
	ESP	Rated	Pa	50	50	-	-	0
		Range	Pa	0-150	0-150	-	-	0
	Sound pressure level(SH/H/M/L)		dB(A)	43/41/40/38	43/41/40/38	52/51/48/45	52/50/48/44	58
	Dimension (W×D×H)	Outline	mm	1400×700×300	1400×700×300	840×840×290	1570×665×235	1870×580×395
		Package	mm	1601×813×365	1601×813×365	963×963×379	1729×770×300	2153×738×545
	Net weight/Gross weight		kg	49.0/55.0	50.0/56.0	36.0/44.0	42.0/49.0	59/66
Panel	Dimension (W×D×H)	Outline	mm	-	-	950×950×52	-	-
		Package	mm	-	-	1033×1038×112	-	-
	Net weight/Gross weight		kg	-	-	6.0/9.5	-	-
Outdoor unit	Sound pressure level		dB(A)	56/—/—	56/—/—	56/—/—	56/—/—	56
	Dimension (W×D×H)	Outline	mm	940×460×820	940×460×820	940×460×820	940×460×820	940×460×820
		Package	mm	1083×573×973	1083×573×973	1083×573×973	1083×573×973	1073×563×868
	Net weight/Gross weight		kg	95/107	95/107	95.0/107.0	95.0/107.0	95/107
Connecting pipe	Outdoor diameter	Liquid	inch	3/8"	3/8"	3/8"	3/8"	3/8"
		Gas	inch	5/8"	5/8"	5/8"	5/8"	5/8"
	Max. distance	Height/Length	m	30/75	30/75	30/75	30/75	30/75

Model	Outdoor unit		GUD125W/NhA-X				
	Indoor unit		Duct		Cassette	Floor ceiling	
			GUD125PH/A-T	GUD125PHS/A-T	GUD125T/A-T	GUD125ZD/A-T	
Capacity	Cooling	kW	12.10	12.10	12.10	12.10	
		Btu/h	41200	41200	41200	41200	
	Heating	kW	13.50	13.50	13.50	13.50	
		Btu/h	46000	46000	46000	46000	
SEER/SCOP		-	5.8/3.8	5.8/3.8	6.1/3.8	6.1/3.8	
Energy efficiency grade (Cooling/Heating)		-	A+/A	A+/A	A++/A	A++/A	
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	3.80	3.80	4.05	4.05	
	Heating	kW	3.90	3.90	4.15	4.00	
Current input	Cooling	A	5.30	5.30	5.90	5.90	
	Heating	A	5.50	5.50	6.10	6.10	
Refrigerant charge volume		kg	2.65	2.65	2.65	2.65	
Loading quantity		40'GP/40'HQ	set	52/56	52/56	48/53	54/62
Indoor unit	Air flow volume(SH/H/M/L)		CFM	1177/1018/924/824	1177/1018/924/824	1059/995/865/742	1059/1000/906/824
			m³/h	2000/1730/1570/1400	2000/1730/1570/1400	1800/1690/1470/1260	1800/1700/1540/1400
	ESP	Rated	Pa	50	50	-	-
		Range	Pa	0-150	0-150	-	-
	Sound pressure level(SH/H/M/L)		dB(A)	42/40/39/37	42/40/39/37	51/49/46/42	49/47/44/42
	Dimension (W×D×H)	Outline	mm	1400×700×300	1400×700×300	840×840×290	1570×665×235
		Package	mm	1601×813×365	1601×813×365	963×963×379	1729×770×300
	Net weight/Gross weight		kg	49.0/55.0	50.0/56.0	33.0/41.0	40.0/47.0
Panel	Dimension (W×D×H)	Outline	mm	-	-	950×950×52	-
		Package	mm	-	-	1033×1038×112	-
	Net weight/Gross weight		kg	-	-	6.0/9.5	-
Outdoor unit	Sound pressure level		dB(A)	56/—/—	56/—/—	56/—/—	56/—/—
	Dimension (W×D×H)	Outline	mm	940×460×820	940×460×820	940×460×820	940×460×820
		Package	mm	1083×573×973	1083×573×973	1083×573×973	1083×573×973
	Net weight/Gross weight		kg	95/107	95/107	95.0/107.0	95.0/107.0
Connecting pipe	Outdoor diameter	Liquid	inch	3/8"	3/8"	3/8"	3/8"
		Gas	inch	5/8"	5/8"	5/8"	5/8"
	Max. distance		Height/Length	m	30/75	30/75	30/75

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.

Model	Outdoor unit		GUD140W/NhA-X				
	Indoor unit		Duct		Cassette	Floor ceiling	
			GUD140PH/A-T	GUD140PHS/A-T	GUD140T/A-T	GUD140ZD/A-T	
Capacity	Cooling	kW	13.40	13.40	13.40	13.40	
		Btu/h	45700	45700	45700	45700	
	Heating	kW	15.50	15.50	15.50	15.50	
		Btu/h	52800	52800	52800	52800	
SEER/SCOP		-	5.6/3.7	5.6/3.7	6.1/4.0	6.1/4.0	
Energy efficiency grade (Cooling/Heating)		-	A+/A	A+/A	A++/A+	A++/A+	
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	4.70	4.70	4.70	4.30	
	Heating	kW	4.45	4.45	4.45	4.40	
Current input	Cooling	A	7.20	7.20	7.20	6.60	
	Heating	A	6.20	6.20	6.20	6.70	
Refrigerant charge volume		kg	2.80	2.80	2.80	2.80	
Loading quantity		40'GP/40'HQ	set	52/56	48/53	54/62	
Indoor unit	Air flow volume(SH/H/M/L)		CFM	1295/1177/1018/877	1295/1177/1018/877	1118/995/871/671	1236/1177/1059/871
			m³/h	2200/2000/1730/1490	2200/2000/1730/1490	1900/1690/1480/1140	2100/2000/1800/1480
	ESP	Rated	Pa	50	50	-	-
		Range	Pa	0-150	0-150	-	-
	Sound pressure level(SH/H/M/L)		dB(A)	43/41/40/38	43/41/40/38	52/51/48/45	52/50/48/44
	Dimension (W×D×H)	Outline	mm	1400×700×300	1400×700×300	840×840×290	1570×665×235
		Package	mm	1601×813×365	1601×813×365	963×963×379	1729×770×300
	Net weight/Gross weight		kg	49.0/55.0	50.0/56.0	36.0/44.0	42.0/49.0
Panel	Dimension (W×D×H)	Outline	mm	-	-	950×950×52	-
		Package	mm	-	-	1033×1038×112	-
	Net weight/Gross weight		kg	-	-	9.5	-
Outdoor unit	Sound pressure level		dB(A)	57/—/—	57/—/—	57/—/—	57/—/—
	Dimension (W×D×H)	Outline	mm	940×460×820	940×460×820	940×460×820	940×460×820
		Package	mm	1083×573×973	1083×573×973	1083×573×973	1083×573×973
	Net weight/Gross weight		kg	99.0/111.0	99.0/111.0	99.0/111.0	99.0/111.0
Connecting pipe	Outdoor diameter	Liquid	inch	3/8"	3/8"	3/8"	3/8"
		Gas	inch	5/8"	5/8"	5/8"	5/8"
	Max. distance		Height/Length	m	30/75	30/75	30/75

Model	Outdoor unit		GUD160W/NhA-X			
	Indoor unit		Duct			
			GUD160PH/A-T		GUD160PHS/A-T	
Capacity	Cooling	kW	16.00		16.00	
		Btu/h	54500		54500	
	Heating	kW	17.00		17.00	
		Btu/h	58000		58000	
SEER/SCOP		-	6.1/3.8		6.1/3.8	
Energy efficiency grade (Cooling/Heating)		-	A++/A		A++/A	
Power supply		V/Ph/Hz	380-415V 3N- 50/60Hz		380-415V 3N- 50/60Hz	
Power input	Cooling	kW	5.45		5.45	
	Heating	kW	5.00		5.00	
Current input	Cooling	A	7.70		7.70	
	Heating	A	7.30		7.30	
Refrigerant charge volume		kg	3.60		3.60	
Loading quantity		40'GP/40'HQ	set		43/49	
Indoor unit	Air flow volume(SH/H/M/L)		CFM	1412/1153/983/812		1412/1153/983/812
			m³/h	2400/1960/1670/1380		2400/1960/1670/1380
	ESP	Rated	Pa	50		50
		Range	Pa	0-200		0-200
	Sound pressure level(SH/H/M/L)		dB(A)	44/41/39/38		44/41/39/38
	Dimension (W×D×H)	Outline	mm	1400×700×300		1400×700×300
		Package	mm	1678×808×365		1678×808×365
	Net weight/Gross weight		kg	56.0/63.0		57.0/64.0
Panel	Dimension (W×D×H)	Outline	mm	-		-
		Package	mm	-		-
	Net weight/Gross weight		kg	-		-
Outdoor unit	Sound pressure level		dB(A)	57/—/—		57/—/—
	Dimension (W×D×H)	Outline	mm	900×340×1345		900×340×1345
		Package	mm	1048×458×1500		1048×458×1500
	Net weight/Gross weight		kg	112.0/122.0		112.0/122.0
Connecting pipe	Outdoor diameter	Liquid	inch	3/8"		3/8"
		Gas	inch	5/8"		5/8"
	Max. distance	Height/Length	m	30/75		30/75

Model	Outdoor unit			GUD160W/NhA-X		
	Indoor unit		Cassette	Floor ceiling	Floor standing	
			GUD160T/A-T	GUD160ZD/A-T	GUD160L/A-T*	
Capacity	Cooling	kW	14.50	16.00	15.5	
		Btu/h	49400	54500	53000	
	Heating	kW	17.00	17.00	17.0	
		Btu/h	58000	58000	58000	
SEER/SCOP		-	6.1/3.8	6.1/4.0	6.1/4.0	
Energy efficiency grade (Cooling/Heating)		-	A++/A	A++/A+	A++/A+	
Power supply		V/Ph/Hz	380-415V 3N~ 50/60Hz	380-415V 3N~ 50/60Hz	380-415V 3N~ 50/60Hz	
Power input	Cooling	kW	5.20	5.40	5.16	
	Heating	kW	4.80	5.40	5	
Current input	Cooling	A	7.60	7.70	13	
	Heating	A	7.20	7.60	12.5	
Refrigerant charge volume		kg	3.60	3.60	3.6	
Loading quantity		40'GP/40'HQ	set	45/47	30/30	
Indoor unit	Air flow volume(SH/H/M/L)		CFM	1177/1106/953/842	1354/1295/1100/936	1117/1059/970/882
			m³/h	2000/1880/1620/1430	2300/2200/1870/1590	1900/1800/1650/1500
	ESP	Rated	Pa	-	-	-
		Range	Pa	-	-	-
	Sound pressure level(SH/H/M/L)		dB(A)	54/52/50/48	54/53/49/45	58/56/54/51
	Panel	Dimension (W×D×H)	Outline	mm	840×840×290	1570×665×235
		Package	mm	963×963×379	1729×770×300	2153×738×545
Net weight/Gross weight		kg	36.0/44.0	42.0/49.0	59/66	
Panel		Dimension (W×D×H)	Outline	mm	950×950×52	-
		Package	mm	1033×1038×112	-	-
	Net weight/Gross weight		kg	9.5	-	-
Outdoor unit	Sound pressure level		dB(A)	57/—/—	57/—/—	57
	Dimension (W×D×H)	Outline	mm	900×340×1345	900×340×1345	900×340×1345
		Package	mm	1048×458×1500	1048×458×1500	1048×458×1500
	Net weight/Gross weight		kg	112.0/122.0	112.0/122.0	112/122
Connecting pipe	Outdoor diameter	Liquid	inch	3/8"	3/8"	3/8"
		Gas	inch	5/8"	5/8"	5/8"
	Max. distance	Height/Length	m	30/75	30/75	30/75

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.

Control System Lineup

Controlling system			Product series		Duct type	High efficiency series	Floor ceiling type
						Cassette type	
Wireless remote controller	YAP1F6				○	●	●
	YAN1F1				○	○	○
	YAA1FB6(WiFi)				○	○	○
Wired controller	XK117				●	○	○
	XE70-13/G2				○	○	○
	XE71-42/G				○	○	○
Central controller	CE52-24/F(C)				○	○	○
Modbus gateway	ME50-00/EG(M)				○	○	○
Dry contact gateway (Extended function board)	ME30-42/E1				○	○	○
Optoelectronic isolated converter	RS232-RS422/485				○	○	○
WiFi module*	ME31-00/C6 ME31-00/C4				○	○	○
Door controller	MK03				○	○	○
Debugger	CE42-24/F(C)				○	○	○

Note : ● means standard, ○ means optional.
*Please confirm the final specifications with sales representatives.

Big Duct Type Unit



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	102360	136480
	Heating		kW	22	27.5	33	43
			BTU/h	75060	93830	112590	146710
EER/COP			W/W	2.55/3.14	2.65/3.10	2.65/3.20	2.60/3.10
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	7.8	9.435	11.3	15.45
	Heating		kW	7.0	8.87	10.3	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
			m³/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(12.7)	Φ3/8(9.52)×2
		Gas	inch(mm)	Φ3/4(19.05)	Φ7/8(22)	Φ1(25.4)	Φ3/4(19.05)×2
	Max. distance	Height	m	30	30	30	30
		Length	m	70	70	70	70
Loading quantity	20'GP		unit	12	10	10	7
	40'GP/40'HQ		unit	24/24	20/22	20/22	18/18

*Single unit's noise value.

Control System Lineup

Controlling system	Model	Outlook	Big duct type unit
Wired controller	XK46		●
	XK79		○
Wireless controller	YAP1F		○

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

VRF

GMV5

GMV5 Home

GMV6

GMV6 HR

GMV5 HR

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. The unit can be combined modularly from 8HP to 88HP. Maximum capacity can up to 246kW.

GMV5 Mini

GMV5 Slim

GMV5E

All DC inverter technology

Energy saving function

Quiet function

Human engineering operation

Intelligent Management

Long connection pipe design

Wide operation range

Modular operating*

High ESP

Comprehensive protection

- » Outdoor unit quiet mode.
- » High energy efficiency with high-performance compressor;Long connection pipe design with the maximum length of 1000m.
- » Auto switch of module status in every 8hrs, which greatly improves the reliability of complete unit.
- » 4 levels of static pressure for option with the maximum of 82Pa.



Max. piping length (meter)	GMV5 Mini		GMV5 Slim	GMV5E
Total piping length	250m ^{*1}	300m ^{*2}	300m	1000m
Actual piping length	100m ^{*1}	120m ^{*2}	120m	165m
Equivalent piping length	120m ^{*1}	150m ^{*2}	150m	190m
Height difference between indoor units	10m ^{*1}	15m ^{*2}	15m	30m
Height difference between ODU and IDU (ODU is located above the IDU)	30m ^{*1}	50m ^{*2}	50m	90m
Height difference between ODU and IDU (IDU is located above the ODU)	30m ^{*1}	40m ^{*2}	40m	90m
Piping length from first indoor branch to the farthest IDU	40m ^{*1}	40m ^{*2}	40m	40m

Notes:
*1: The value is applied to product type with 8kW, 10kW or 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(°C)		
	DB(°C)	WB(°C)	DB(°C)	WB(°C)	GMV5 Mini	GMV5 Slim	GMV5E
Cooling	35	-	27	19	-5~52	-5~52	-5~52
Heating	7	6	20	-	-20~27	-20~27	-20~24

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
4	GMV-121WL/C-T	
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	

GMV5E Lineup (380-415V 3N~ 50/60Hz)

HP	Model	Product
8	GMV-224WM/E-X	
10	GMV-280WM/E-X	
	GMV-280WM/E1-X	
12	GMV-335WM/E-X	
14	GMV-400WM/E-X	
16	GMV-450WM/E1-X	
	GMV-450WM/E-X	
18	GMV-504WM/E-X	
20	GMV-560WM/E-X	
22	GMV-615WM/E-X	

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

Model			GMV-120WL/C-T	GMV-121WL/C-T	GMV-140WL/C-T	GMV-141WL/C-T	GMV-160WL/C-T
Capacity range		HP	4	4	5	5	6
Cooling capacity	Rated	kW	12.1	12.1	14	14.1	16
	Rated	kW	11.7	9	11.91	10	11.7
Heating capacity	Max.	kW	14	13	16.5	16	18
	Ducted	-	8.2	7.2	8.12	6.76	7.82
SEER	Cassette	-	7.21	6.10	7.22	6.69	7.07
	Ducted	-	4.45	4.38	4.45	3.69	4.45
SCOP	Cassette	-	4.38	4.38	4.37	3.92	4.37
Max. circuit/Fuse current		A	32	32	40	40	40
Power supply		V/Ph/Hz	220-240V ~ 50Hz & 208-230V ~ 60Hz				
Maximum drive IDU NO.		unit	7	6	8	8	9
Refrigerant charge volume		kg	3.3	2	3.3	3.3	3.3
Sound power level		dB(A)	72	72	72	75	72
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
Dimension (W×D×H)	Outline	mm	900×340×1345	980×360×790	900×340×1345	940×460×820	900×340×1345
	Package	mm	998×458×1500	1097×477×937	998×458×1500	1023×563×973	998×458×1500
Net weight/ Gross weight		kg	112/123	85/95	112/123	85/95	112/123
Loading quantity	40'GP	unit	57	96	57	88	57
	40'HQ	unit	57	96	57	88	57

Note:
(1)The ODU operation temperature range is -5~52°C in cooling and -20~27°C 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
	Rated	kW	11.7	11.91	11.7
Heating capacity	Max.	kW	14	16.5	18
	Ducted	-	8.2	8.12	7.82
SEER	Cassette	-	7.21	7.22	7.07
	Ducted	-	4.45	4.45	4.45
SCOP	Cassette	-	4.38	4.37	4.37
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)	72	72	72
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°C in cooling and -20~27 °C 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	16.5	18.0	21.5
Heating capacity	Rated	kW	24.0	28.0	33.5
	Max.	kW	7.27	7.31	7.87
SEER	Ducted	-	7.27	6.87	6.83
	Cassette	-	4.08	5.19	5.50
SCOP	Ducted	-	4.11	4.66	5.21
	Cassette	-	17.20	22.5	24.5
Max. circuit/Fuse current		A	380-415V 3N~ 50/60Hz		
Power supply		V/Ph/Hz			
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	Φ12.7
	Gas	mm	Φ19.05	Φ22.2	Φ25.4
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	56	44	44
	40'HQ	unit	56	44	44

GMV5E (380-415V 3N~ 50/60Hz)

Model			GMV-224WM/E-X	GMV-280WM/E-X	GMV-280WM/E1-X	GMV-335WM/E-X	GMV-400WM/E-X	GMV-450WM/E-X	GMV-450WM/E1-X	GMV-504WM/E-X	GMV-560WM/E-X	GMV-615WM/E-X
Capacity range		HP	8	10	10	12	14	16	16	18	20	22
Cooling capacity	Rated *	kW	22.4	28.0	28.0	33.5	40.0	45.0	45.0	50.4	56.0	61.5
	Max.	kW	20.0	22.0	20.5	23.5	31.5	33.5	30.5	37.5	40.5	40.5
Heating capacity	Rated *	kW	25.0	31.5	31.5	37.5	45.0	50.0	50.0	56.5	63.0	69.0
	Max.	kW	8.30	8.41	7.25	5.81	5.43	6.74	4.79	6.79	6.79	6.20
SEER *	Ducted	-	6.07	5.72	6.80	5.93	5.80	5.21	6.10	6.02	5.73	5.33
	Cassette	-	4.97	4.99	4.60	4.34	4.12	4.89	3.96	4.68	4.66	4.96
SCOP *	Ducted	-	4.07	3.92	4.10	3.94	3.76	3.37	3.90	4.00	4.15	3.86
	Cassette	-										
Power supply		V/Ph/Hz	380-415V 3N~ 50/60Hz									
Min. circuit current		A	16.1	20.9	20.9	24.6	28.8	33.2	33.2	44.7	50	53.6
Max. fuse current		A	20	25	25	32	40	40	40	50	60	60
Maximum drive IDU NO.		unit	13	16	16	19	23	26	26	29	32	35
Refrigerant charge volume		kg	5.9	9	6.7	8.2	9.8	10.3	10.3	11.3	14.3	14.3
Sound pressure level(Cooling)		dB(A)	60	61	61	63	63	63	63	63	63	64
Sound power level(Cooling)	Ducted	dB(A)	87	86	90	86	89	88	93	87	93	93
	Cassette	dB(A)	86	87	86	83	87	89	86	87	88	94
Connecting pipe	Liquid	mm	Φ9.52	Φ9.52	Φ9.52	Φ12.7	Φ12.7	Φ12.7	Φ12.7	Φ15.9	Φ15.9	Φ15.9
	Gas	mm	Φ19.05	Φ22.2	Φ22.2	Φ25.4	Φ25.4	Φ28.6	Φ28.6	Φ28.6	Φ28.6	Φ28.6
	Oil balance	mm	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52
Dimension (W×D×H)	Outline	mm	930×765×1605	930×765×1605	930×765×1605	1340×765×1605	1340×765×1605	1340×765×1740	1340×765×1605	1340×765×1740	1340×765×1740	1340×765×1740
	Package	mm	1010×840×1775	1010×840×1775	1010×840×1775	1420×840×1775	1420×840×1775	1420×840×1910	1420×840×1775	1420×840×1910	1420×840×1910	1420×840×1910
Net weight		kg	225	235	225	285	360	360	360	360	385	385
Gross weight		kg	235	245	235	300	375	375	375	375	400	400
Loading quantity	40' GP	unit	24	24	24	16	16	16	16	16	16	16
	40' HQ	unit	24	24	24	16	16	16	16	16	16	16

Note：The data is Eurovent certified.

GMV5E Outdoor Units Lineup (380-415V 3N~ 50/60Hz)

Model	GMV-224WME-X	GMV-280WME-X (GMV-280WME1-X)	GMV-335WME-X	GMV-400WME-X	GMV-450WME-X (GMV-450WME1-X)	GMV-504WME-X	GMV-560WME-X	GMV-615WME-X
GMV-224WME-X	●							
GMV-280WME-X (GMV-280WME1-X)		●						
GMV-335WME-X			●					
GMV-400WME-X				●				
GMV-450WME-X (GMV-450WME1-X)					●			
GMV-504WME-X						●		
GMV-560WME-X							●	
GMV-615WME-X								●
GMV-680WME-X		●		●				
GMV-730WME-X		●			●			
GMV-785WME-X		●				●		
GMV-850WME-X		●					●	
GMV-900WME-X		●						●
GMV-960WME-X			●					●
GMV-1010WME-X				●				●
GMV-1065WME-X					●			●
GMV-1130WME-X						●		●
GMV-1180WME-X							●	●
GMV-1235WME-X								●●
GMV-1300WME-X		●			●		●	
GMV-1350WME-X		●			●			●
GMV-1410WME-X			●		●			●
GMV-1460WME-X		●					●	●
GMV-1515WME-X		●						●●
GMV-1580WME-X			●					●●
GMV-1630WME-X				●				●●
GMV-1685WME-X					●			●●
GMV-1750WME-X						●		●●
GMV-1800WME-X							●	●●
GMV-1845WM/E-X								●●●
GMV-1908WME-X		●			●		●	●
GMV-1962WME-X		●				●	●	●
GMV-2016WME-X		●					●●	●
GMV-2072WME-X		●					●	●●
GMV-2128WME-X		●						●●●
GMV-2184WME-X			●					●●●
GMV-2240WME-X				●				●●●
GMV-2295WME-X					●			●●●
GMV-2350WME-X						●		●●●
GMV-2405WME-X							●	●●●
GMV-2460WME-X								●●●●

Note:
1.Due to the same capacity, GMV-280WM/E1-X model and GMV-280WM/E-X model can replace each other for operation; GMV-450WM/E1-X model and GMV-450WM/E-X model can replace each other for operation.
2. The combination models of the outdoor units are not Eurovent certified.

Specifications of ODU Combination
GMV5E (380-415V 3N~ 50/60Hz)

Model	Capacity range	Cooling capacity	Heating capacity		Connecting pipe			Power Supply	Min. circuit current	Max. fuse current	Refrigerant charge volume	Net weight	Gross weight
		Rated	Rated	Max.	Liquid	Gas	Oil Balance						
	HP	kW	kW	kW	mm	mm	mm		A	A	kg	kg	kg
GMV-680WM/E-X	24	68	53.5	76.5	Φ15.9	Φ28.6	Φ9.52	380~415V 3N~50/60Hz	20.9+28.8	25+40	18.8	595	620
GMV-730WM/E-X	26	73	55.5	81.5	Φ19.05	Φ31.8	Φ9.52		20.9+33.2	25+40	19.3	595	620
GMV-785WM/E-X	28	78.4	59.5	88	Φ19.05	Φ31.8	Φ9.52		20.9+44.7	25+50	20.3	595	620
GMV-850WM/E-X	30	84	62.5	94.5	Φ19.05	Φ31.8	Φ9.52		20.9+50	25+60	23.3	620	645
GMV-900WM/E-X	32	89.5	62.5	100.5	Φ19.05	Φ31.8	Φ9.52		20.9+53.6	25+60	23.3	620	645
GMV-960WM/E-X	34	95	64	106.5	Φ19.05	Φ31.8	Φ9.52		24.6+53.6	32+60	22.5	670	700
GMV-1010WM/E-X	36	101.5	72	114	Φ19.05	Φ38.1	Φ9.52		28.8+53.6	40+60	24.1	745	775
GMV-1065WM/E-X	38	106.5	74	119	Φ19.05	Φ38.1	Φ9.52		33.2+53.6	40+60	24.6	745	775
GMV-1130WM/E-X	40	111.9	78	125.5	Φ19.05	Φ38.1	Φ9.52		44.7+53.6	50+60	25.6	745	775
GMV-1180WM/E-X	42	117.5	81	132	Φ19.05	Φ38.1	Φ9.52		50+53.6	60+60	28.6	770	800
GMV-1235WM/E-X	44	123	81	138	Φ19.05	Φ38.1	Φ9.52		53.6+53.6	60+60	28.6	770	800
GMV-1300WM/E-X	46	129	96	144.5	Φ19.05	Φ38.1	Φ9.52		20.9+33.2+50	25+40+60	33.6	980	1020
GMV-1350WM/E-X	48	134.5	96	150.5	Φ19.05	Φ38.1	Φ9.52		20.9+33.2+53.6	25+40+60	33.6	980	1020
GMV-1410WM/E-X	50	140	97.5	156.5	Φ19.05	Φ41.3	Φ9.52		24.6+33.2+53.6	32+40+60	32.8	1030	1075
GMV-1460WM/E-X	52	145.5	103	163.5	Φ19.05	Φ41.3	Φ9.52		20.9+50+53.6	25+60+60	37.6	1005	1045
GMV-1515WM/E-X	54	151	103	169.5	Φ19.05	Φ41.3	Φ9.52		20.9+53.6+53.6	25+60+60	37.6	1005	1045
GMV-1580WM/E-X	56	156.5	104.5	175.5	Φ19.05	Φ41.3	Φ9.52		24.6+53.6+53.6	32+60+60	36.8	1055	1100
GMV-1630WM/E-X	58	163	112.5	183	Φ19.05	Φ41.3	Φ9.52		28.8+53.6+53.6	40+60+60	38.4	1130	1175
GMV-1685WM/E-X	60	168	114.5	188	Φ19.05	Φ41.3	Φ9.52		33.2+53.6+53.6	40+60+60	38.9	1130	1175
GMV-1750WM/E-X	62	173.4	118.5	194.5	Φ19.05	Φ41.3	Φ9.52		44.7+53.6+53.6	50+60+60	39.9	1130	1175
GMV-1800WM/E-X	64	179	121.5	201	Φ19.05	Φ41.3	Φ9.52		50+53.6+53.6	60+60+60	42.9	1155	1200
GMV-1845WM/E-X	66	184.5	121.5	207	Φ19.05	Φ41.3	Φ9.52		53.6+53.6+53.6	60+60+60	42.9	1155	1200
GMV-1908WM/E-X	68	190.5	136.5	213.5	Φ22.2	Φ44.5	Φ9.52		20.9+33.2+50+53.6	25+40+60+60	47.9	1365	1420
GMV-1962WM/E-X	70	195.9	140.5	220	Φ22.2	Φ44.5	Φ9.52		20.9+44.7+50+53.6	25+50+60+60	48.9	1365	1420
GMV-2016WM/E-X	72	201.5	143.5	226.5	Φ22.2	Φ44.5	Φ9.52		20.9+50+50+53.6	25+60+60+60	51.9	1390	1445
GMV-2072WM/E-X	74	207	143.5	232.5	Φ22.2	Φ44.5	Φ9.52		20.9+50+53.6+53.6	25+60+60+60	51.9	1390	1445
GMV-2128WM/E-X	76	212.5	143.5	238.5	Φ22.2	Φ44.5	Φ9.52		20.9+53.6+53.6+53.6	25+60+60+60	51.9	1390	1445
GMV-2184WM/E-X	78	218	145	244.5	Φ22.2	Φ44.5	Φ9.52		24.6+53.6+53.6+53.6	32+60+60+60	51.1	1440	1500
GMV-2240WM/E-X	80	224.5	153	252	Φ22.2	Φ44.5	Φ9.52		28.8+53.6+53.6+53.6	40+60+60+60	52.7	1515	1575
GMV-2295WM/E-X	82	229.5	155	257	Φ22.2	Φ44.5	Φ9.52		33.2+53.6+53.6+53.6	40+60+60+60	53.2	1515	1575
GMV-2350WM/E-X	84	234.9	159	263.5	Φ22.2	Φ44.5	Φ9.52		44.7+53.6+53.6+53.6	50+60+60+60	54.2	1515	1575
GMV-2405WM/E-X	86	240.5	162	270	Φ22.2	Φ44.5	Φ9.52		50+53.6+53.6+53.6	60+60+60+60	57.2	1540	1600
GMV-2460WM/E-X	88	246	162	276	Φ22.2	Φ44.5	Φ9.52		53.6+53.6+53.6+53.6	60+60+60+60	57.2	1540	1600

Note:
1. The unit GMV-280WM/E1-X or GMV-280WM/E-X can be replaced by each other.
2. The unit GMV-450WM/E1-X or GMV-450WM/E-X can be replaced by each other.
3. The combination models of the outdoor units are not Eurovent certified.

GMV5 Home



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

Outdoor Unit

Water Tank

SXTD200LC
JW/A-K*2

Hydro Box

Hot water converter*1

Golden fin condenser

Inner groove copper

Compact design

High efficiency

Wide voltage range

Easier maintainability

» High efficiency and energy savings. 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; water heating and floor heating can be available simultaneously; 3D heat supply provides more comfort; the optimized defrosting reduces the fluctuation of indoor temperature.



ItemI	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

Hydro Box

Model				NRQD16G/A-S	
Heating capacity			kW	4.5(3.6-16)	
Dimension (W×D×H)	Outline		mm	500×919×328	
	Package		mm	1158×608×400	
Power supply			V/Ph/Hz	220-240V ~ 50/60Hz	
Connecting pipe	to ODU	Gas	mm	Φ15.9	
		Liquid	mm	Φ9.52	
		Gas(high pressure)	mm	Φ12.7	
	to water tank		mm	Φ25	
Water pump	Type		—	PB-2.5/11-A	
	Power input		kW	0.08-0.14	
	Water flow	L/h		1700.00	
		GPM		7.48	
	Delivery lift		m	6.00	
Net weight/Gross weight			kg	56/62	
Loading quantity		40'GP/40'HQ	unit	1058/1196	

Hot Water Converter

				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	Φ15.9	
		Liquid	mm	Φ9.52	
		Gas(high pressure)	mm	Φ12.7	
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.

Model			SXTVD300LCJ2/A-K	
Water tank volume		L	300	
Power supply		V/Ph/Hz	230V~50Hz	
Electric heater power		W	3000	
Screw thread spec of pipe		Cool water inlet	inch(mm)	Φ1/2"Female BSP(12.7)
		Hot water outlet	inch(mm)	Φ1/2"Female BSP(12.7)
Dimension	Outline	Diameter×H	mm	Φ620×1722
	Packaged	W×D×H	mm	743×743×1875
Net weight/Gross weight		kg	157.5/140	
Loading quantity		40'GP/40'HQ	unit	63/63

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	16
	Rated	kW	12	12	12
Heating capacity	Max.	kW	14	16.5	18.5
	Ducted	-	8.08	7.79	7.73
SEER	Cassette	-	6.71	6.68	6.62
	Ducted	-	4.17	4.11	4.04
SCOP	Cassette	-	3.92	3.91	3.71
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)	72	72	72
Connecting pipe	Liquid	mm	Φ 9.52	Φ 9.52	Φ 9.52
	Gas	mm	Φ 15.9	Φ 15.9	Φ 15.9
	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

Model			GMV-S224W/A-X	GMV-S280W/A-X
Cooling capacity	Rated *	kW	22.4	28
	Rated *	kW	21.5	21
Heating capacity	Max.	kW	25	31.5
	Max.	kW	25	31.5
ECOP		-	7	7
SEER *	Ducted	-	8.46	7.58
	Cassette	-	7.2	6.45
SCOP *	Ducted	-	5.5	5.58
	Cassette	-	4.22	4.35
Power supply		V/Ph/Hz	380-415V 3N~ 50/60Hz	
Min. circuit current		A	16.1	20.9
Max. fuse current		A	20	25
Refrigerant charge volume		kg	10.5	11
Airflow volume		m³/h	14000	14000
Sound pressure level(Cooling)		dB(A)	57	58
Sound power level(Cooling)		dB(A)	81	81
Connecting pipe	Gas	mm	Φ19.05	Φ22.2
	Liquid	mm	Φ9.52	Φ9.52
	Gas(high pressure)	mm	Φ15.9	Φ15.9
Dimension (W×D×H)	Outline	mm	1340×765×1605	1340×765×1605
	Package	mm	1420×840×1775	1420×840×1775
Net weight		kg	295	295
Gross weight		kg	310	310
Loading quantity	40' GP	unit	16	16
	40' HQ	unit	16	16

Note: The data is Eurovent certified.

GMV6



DC Inverter Multi VRF Unit (R410A, Inverter)

GMV6 heat pump multi VRF unit adopts air-makeup enthalpy-adding compressor, brand new heat exchanger and system control proposal. Seasonal energy efficiency of the whole is greatly improved, with SEER and SCOP improved by up to 20% and 30% respectively.



Energy saving function

High efficiency

Easier maintainability

Wide operation range

Golden fin condenser

Centralized control

Long-distance monitoring

Inner groove copper

Long connection pipe design

Intelligent defrosting

Turbo function

Modular operating

Comprehensive protection

All DC inverter technology

High ESP

Quality motor

Multi fan speed

Modular structure

Wide voltage range

Auto addressing technology

- » Air-makeup enthalpy-adding compressor design is applied for stronger cooling and heating performance and wider operation range from -30℃~55℃;
- » Brand new heat exchanger design and system control proposal greatly improves the operation energy efficiency of the whole year, with SEER and SCOP improved by up to 20% and 30% respectively;
- » Engineering design is more flexible. The external static pressure is improved by 35%, reaching 110Pa. Maximum connectable indoor unit quantity of single system is improved by 25%, reaching 80 sets (It needs engineering custom if there are more than 80 indoor units and the engineering custom is available for 100 indoor units at the most) ;
- » 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.



Outdoor Unit

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
Capacity range		HP	8	10	12	14	16	18	20	22
Cooling capacity	Rated	kW	22.4	28	33.5	40	45	50.4	56	61.5
Heating capacity	Rated	kW	16.2	16.2	18.5	23.32	23.32	31	31	33
	Max.	kW	25	31.5	37.5	45	50	56.5	63	69
SEER	Ducted	-	7.7	6.85	6.55	6.89	6.6	6.95	6.32	5.74
	Cassette	-	7.36	6.2	7.27	6.77	6.36	6.56	5.66	5.62
SCOP	Ducted	-	5.51	5.51	5.74	5.15	5.15	4.13	4.13	4.32
	Cassette	-	4.75	4.75	4.84	4.44	4.44	3.71	3.71	3.55
Power supply		V/Ph/Hz	380~415V 3N~50/60Hz							
Min. circuit/Max. Fuse current		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. input power		kW	12.87	13.15	13.50	21.00	22.00	26.30	26.85	27.41
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)	81	83	88	85	89	93	93	93
	Cassette	dB(A)	81	86	88	88	93	88	94	94
Connecting pipe	Liquid	mm	Φ9.52	Φ9.52	Φ12.7	Φ12.7	Φ12.7	Φ15.9	Φ15.9	Φ15.9
	Gas	mm	Φ19.05	Φ22.2	Φ25.4	Φ25.4	Φ28.6	Φ28.6	Φ28.6	Φ28.6
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	set	12	12	12	10	10	10	10	10
	40' GP	set	28	28	28	22	22	22	22	22
	40' HQ	set	28	28	28	22	22	22	22	22

Specifications of ODU Combination

Model	Capacity range	Cooling capacity	Heating capacity		Connecting pipe		Power supply	Min. circuit current	Max. fuse current	Refrigerant charge volume	Net weight	Gross weight
		Rated	Max.	Liquid	Gas							
	HP	kW	kW	kW	mm	mm		A	A	kg	kg	kg
GMV-680WM/H-X	24	68	39.52	76.5	Φ15.9	Φ28.6	380-415V 3N~50/60Hz	23.5+37.5	25+40	13	220+300	230+315
GMV-730WM/H-X	26	73	39.52	81.5	Φ19.05	Φ31.8		23.5+39.3	25+40	13	220+300	230+315
GMV-784WM/H-X	28	78.4	47.2	88	Φ19.05	Φ31.8		23.5+47	25+50	13.8	220+350	230+365
GMV-840WM/H-X	30	84	47.2	94.5	Φ19.05	Φ31.8		23.5+48	25+50	13.8	220+350	230+365
GMV-895WM/H-X	32	89.5	49.2	100.5	Φ19.05	Φ31.8		23.5+49	25+50	13.8	220+355	230+370
GMV-950WM/H-X	34	95	51.5	106.5	Φ19.05	Φ31.8		24.1+49	25+50	15.8	240+355	250+370
GMV-1015WM/H-X	36	101.5	56.32	114	Φ19.05	Φ38.1		37.5+49	40+50	15.8	300+355	315+370
GMV-1065WM/H-X	38	106.5	56.32	119	Φ19.05	Φ38.1		39.3+49	40+50	15.8	300+355	315+370
GMV-1119WM/H-X	40	111.9	64	125.5	Φ19.05	Φ38.1		47+49	50+50	16.6	350+355	365+370
GMV-1175WM/H-X	42	117.5	64	132	Φ19.05	Φ38.1		48+49	50+50	16.6	350+355	365+370
GMV-1230WM/H-X	44	123	66	138	Φ19.05	Φ38.1		49+49	50+50	16.6	355×2	370×2
GMV-1290WM/H-X	46	129	70.52	144.5	Φ19.05	Φ38.1		23.5+39.3+48	25+40+50	21.3	220+300+350	230+315+365
GMV-1345WM/H-X	48	134.5	72.52	150.5	Φ19.05	Φ38.1		23.5+39.3+49	25+40+50	21.3	220+300+355	230+315+370
GMV-1400WM/H-X	50	140	74.82	156.5	Φ19.05	Φ41.3		24.1+39.3+49	25+40+50	23.3	240+300+355	250+315+370
GMV-1455WM/H-X	52	145.5	80.2	163.5	Φ19.05	Φ41.3		23.5+48+49	25+50+50	22.1	220+350+355	230+365+370
GMV-1510WM/H-X	54	151	82.2	169.5	Φ19.05	Φ41.3		23.5+49+49	25+50+50	22.1	220+355×2	230+370×2
GMV-1565WM/H-X	56	156.5	84.5	175.5	Φ19.05	Φ41.3		24.1+49+49	25+50+50	24.1	240+355×2	250+370×2
GMV-1630WM/H-X	58	163	89.32	183	Φ19.05	Φ41.3		37.5+49+49	40+50+50	24.1	300+355×2	315+370×2
GMV-1680WM/H-X	60	168	89.32	188	Φ19.05	Φ41.3		39.3+49+49	40+50+50	24.1	300+355×2	315+370×2
GMV-1734WM/H-X	62	173.4	97	194.5	Φ19.05	Φ41.3		47+49+49	50+50+50	24.9	350+355×2	365+370×2
GMV-1790WM/H-X	64	179	97	201	Φ19.05	Φ41.3		48+49+49	50+50+50	24.9	350+355×2	365+370×2
GMV-1845WM/H-X	66	184.5	99	207	Φ19.05	Φ41.3		49+49+49	50+50+50	24.9	355×3	370×3
GMV-1905WM/H-X	68	190.5	103.52	213.5	Φ22.2	Φ44.5		23.5+39.3+48+49	25+40+50+50	29.6	220+300+350+355	230+315+365+370
GMV-1959WM/H-X	70	195.9	111.2	220	Φ22.2	Φ44.5		23.5+47+48+49	25+50+50+50	30.4	220+350×2+355	230+365×2+370
GMV-2015WM/H-X	72	201.5	111.2	226.5	Φ22.2	Φ44.5		23.5+48+48+49	25+50+50+50	30.4	220+350×2+355	230+365×2+370
GMV-2070WM/H-X	74	207	113.2	232.5	Φ22.2	Φ44.5		23.5+48+49+49	25+50+50+50	30.4	220+350+355×2	230+365+370×2
GMV-2125WM/H-X	76	212.5	115.2	238.5	Φ22.2	Φ44.5		23.5+49+49+49	25+50+50+50	30.4	220+355×3	230+370×3
GMV-2180WM/H-X	78	218	117.5	244.5	Φ22.2	Φ44.5		24.1+49+49+49	25+50+50+50	32.4	240+355×3	250+370×3
GMV-2245WM/H-X	80	224.5	122.32	252	Φ22.2	Φ44.5		37.5+49+49+49	40+50+50+50	32.4	300+355×3	315+370×3
GMV-2295WM/H-X	82	229.5	122.32	257	Φ22.2	Φ44.5		39.3+49+49+49	40+50+50+50	32.4	300+355×3	315+370×3
GMV-2349WM/H-X	84	234.9	130	263.5	Φ22.2	Φ44.5		47+49+49+49	50+50+50+50	33.2	350+355×3	365+370×3
GMV-2405WM/H-X	86	240.5	130	270	Φ22.2	Φ44.5		48+49+49+49	50+50+50+50	33.2	350+355×3	365+370×3
GMV-2460WM/H-X	88	246	132	276	Φ22.2	Φ44.5		49+49+49+49	50+50+50+50	33.2	355×4	370×4

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
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								●
GMV-680WM/H-X		●		●				
GMV-730WM/H-X		●			●			
GMV-784WM/H-X		●				●		
GMV-840WM/H-X		●					●	
GMV-895WM/H-X		●						●
GMV-950WM/H-X			●					●
GMV-1015WM/H-X				●				●
GMV-1065WM/H-X					●			●
GMV-1119WM/H-X						●		●
GMV-1175WM/H-X							●	●
GMV-1230WM/H-X								●●
GMV-1290WM/H-X		●			●		●	
GMV-1345WM/H-X		●			●			●
GMV-1400WM/H-X			●		●			●
GMV-1455WM/H-X		●					●	●
GMV-1510WM/H-X		●						●●
GMV-1565WM/H-X			●					●●
GMV-1630WM/H-X				●				●●
GMV-1680WM/H-X					●			●●
GMV-1734WM/H-X						●		●●
GMV-1790WM/H-X							●	●●
GMV-1845WM/H-X								●●●
GMV-1905WM/H-X		●			●		●	●
GMV-1959WM/H-X		●				●	●	●
GMV-2015WM/H-X		●					●●	●
GMV-2070WM/H-X		●					●	●●
GMV-2125WM/H-X		●						●●●
GMV-2180WM/H-X			●					●●●
GMV-2245WM/H-X				●				●●●
GMV-2295WM/H-X					●			●●●
GMV-2349WM/H-X						●		●●●
GMV-2405WM/H-X							●	●●●
GMV-2460WM/H-X								●●●●

GMV6 HR*



GMV 6 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.



Continuous heating

Energy saving function

High efficiency

Easier maintainability

Golden fin condenser

Centralized control

Long-distance monitoring

Comprehensive protection

Inner groove copper

Long connection pipe design

Intelligent defrosting

Turbo function

Low temperature heating

Quiet function

Modular operating

Wide operation range

- › 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;
- › Low power standby function can be achieved for more energy savings;
- › 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 8.5 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. The compact structure design reduces the size by 20% in maximum. Meanwhile, pipe port design with flexible diameters is adopted for more convenient installation.



Mode Exchange Unit

Model	Product Outlook
NCHS1D	
NCHS2D	
NCHS4D	
NCHS8D	

Hydro Box

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

Hydro Box

Model				NRQR16L/A-T*		NRQR30L/A-T*	
Heating capacity			kW	16		30	
Heating Power Input			W	10		10	
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	
		Liquid	mm	9.52		9.52	
	to water tank		mm	25		25	
			L/min	46		86	
Dimension(W×D×H)		Outling	mm	515×330×606			
		Package	mm	685×473×657			
Net/Gross Weight			kg	36/41		40/46	
Loading quantity		40' GP/40' HQ	set	252/336		252/336	

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

Outdoor Unit

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	33.5	40	45	50.4	56	61.5
Heating capacity	Rated	kW	16.2	16.2	18.5	23.5	23.5	33	33	37
	Max.	kW	25	31.5	37.5	45	50	56.5	63	69
SEER	Ducted	-	7.40	6.58	6.29	6.62	6.34	6.24	6.15	5.95
	Cassette	-	7.07	5.95	6.98	6.50	6.11	5.57	5.38	5.19
SCOP	Ducted	-	5.18	5.18	5.44	4.87	4.87	4.89	4.80	4.80
	Cassette	-	4.47	4.47	4.55	4.18	4.18	4.05	3.95	3.95
Power supply		V/Ph/Hz	380-415V 3N~50/60Hz							
Max. Circuit/Fuse Current		A	23.0/25	23.5/25	24.1/25	32.5/40	33.5/40	47.0/50	48.0/50	49.0/50
Max. input power		kW	12.87	13.15	13.5	18.18	18.74	26.3	26.85	27.41
Maximum drive IDU NO.		unit	13	16	19	23	26	29	33	36
Refrigerant charge volume		kg	8.0	8.5	9.6	11.1	11.6	12.8	12.8	13.3
Sound pressure level(Cooling)		dB(A)	60	61	63	63	63	63	63	64
Sound power level(Cooling)	Ducted	dB(A)	81	83	88	89	88	87	93	93
	Cassette	dB(A)	81	86	88	87	89	87	88	94
Connecting pipe	Liquid	mm	Φ9.52	Φ9.52	Φ12.7	Φ12.7	Φ12.7	Φ15.9	15.9	15.9
	High pressure gas	mm	Φ15.9	Φ19.05	Φ19.05	Φ22.2	Φ22.2	Φ25.4	25.4	25.4
	Low pressure gas	mm	Φ19.05	Φ22.2	Φ25.4	Φ25.4	Φ28.6	Φ28.6	28.6	28.6
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	240/250	243/253	256/266	320/335	325/340	385/400	385/400	385/400
Loading quantity	40' GP	set	28	28	28	22	22	22	22	22
	40' HQ	set	28	28	28	22	22	22	22	22

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

Mode Exchange Unit

Model			NCHS1D*	NCHS2D*	NCHS4D*	NCHS8D*	
Numbers of branches		unit	1	2	4	8	
Maximum numbers of connectable IDUs	Per branch	unit	8	8	8	8	
	Total	unit	8	16	32	64	
Maximum 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	220-240V ~ 50/60Hz	220-240V ~ 50/60Hz	220-240V ~ 50/60Hz	
Power consumption		Cooling	W	13.5	25	32	90
		Heating	W	13.5	25	32	90
Piping connections	ODU	Liquid	mm	Φ9.52	Φ9.52	Φ12.7	Φ15.9
		High pressure gas	mm	Φ19.05	Φ19.05	Φ22.2	Φ22.2
		Low pressure gas	mm	Φ22.2	Φ22.2	Φ28.6	Φ28.6
	IDU	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	12/17.5	14.5/20.5	20.6/27	33/42	

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

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								●●●●

Model	Capacity range	Cooling capacity	Heating capacity		Connecting pipe diameter			Power Supply	Min. circuit current	Max. fuse current	Refrigerant charge volume	Net weight	Gross weight
	HP	Rated kW	Rated kW	Max. kW	Liquid mm	HP Gas mm	LP Gas mm		A	A	kg	kg	kg
GMV-VQ680WM/C-X	24	68	39.7	76.5	Φ15.9	Φ25.4	Φ28.6	380-415V 3N ~ 50/60Hz	23.5+32.5	25+40	19.6	243+320	253+355
GMV-VQ730WM/C-X	26	73	39.7	81.5	Φ19.05	Φ28.6	Φ31.8		23.5+33.5	25+40	20.1	243+325	253+340
GMV-VQ784WM/C-X	28	78.4	49.2	88	Φ19.05	Φ28.6	Φ31.8		23.5+47	25+50	21.3	243+385	253+400
GMV-VQ840WM/C-X	30	84	49.2	94.5	Φ19.05	Φ28.6	Φ31.8		23.5+48	25+50	21.3	243+385	253+400
GMV-VQ895WM/C-X	32	89.5	53.2	100.5	Φ19.05	Φ28.6	Φ31.8		23.5+49	25+50	21.8	243+385	253+400
GMV-VQ950WM/C-X	34	95	55.5	106.5	Φ19.05	Φ28.6	Φ31.8		24.1+49	25+50	22.9	256+385	266+400
GMV-VQ1015WM/C-X	36	101.5	60.5	114	Φ19.05	Φ31.8	Φ38.1		32.5+49	40+50	24.4	320+385	355+400
GMV-VQ1065WM/C-X	38	106.5	60.5	119	Φ19.05	Φ31.8	Φ38.1		33.5+49	40+50	24.9	325+385	340+400
GMV-VQ1119WM/C-X	40	111.9	70	125.5	Φ19.05	Φ31.8	Φ38.1		47+49	50+50	26.1	385+385	400+400
GMV-VQ1175WM/C-X	42	117.5	70	132	Φ19.05	Φ31.8	Φ38.1		48+49	50+50	26.1	385+385	400+400
GMV-VQ1230WM/C-X	44	123	74	138	Φ19.05	Φ31.8	Φ38.1		49+49	50+50	26.6	385+385	400+400
GMV-VQ1290WM/C-X	46	129	72.7	144.5	Φ19.05	Φ31.8	Φ38.1		23.5+33.5+48	25+40+50	32.9	243+325+385	253+340+400
GMV-VQ1345WM/C-X	48	134.5	76.7	150.5	Φ19.05	Φ31.8	Φ38.1		23.5+33.5+49	25+40+50	33.4	243+325+385	253+340+400
GMV-VQ1400WM/C-X	50	140	79	156.5	Φ19.05	Φ38.1	Φ41.3		24.1+33.5+49	25+40+50	34.5	256+325+385	266+340+400
GMV-VQ1455WM/C-X	52	145.5	86.2	163.5	Φ19.05	Φ38.1	Φ41.3		23.5+48+49	25+50+50	34.6	243+385+385	253+400+400
GMV-VQ1510WM/C-X	54	151	90.2	169.5	Φ19.05	Φ38.1	Φ41.3		23.5+49+49	25+50+50	35.1	243+385+385	253+400+400
GMV-VQ1565WM/C-X	56	156.5	92.5	175.5	Φ19.05	Φ38.1	Φ41.3		24.1+49+49	25+50+50	36.2	256+385+385	266+400+400
GMV-VQ1630WM/C-X	58	163	97.5	183	Φ19.05	Φ38.1	Φ41.3		32.5+49+49	40+50+50	37.7	320+385+385	355+400+400
GMV-VQ1680WM/C-X	60	168	97.5	188	Φ19.05	Φ38.1	Φ41.3		33.5+49+49	40+50+50	38.2	325+385+385	340+400+400
GMV-VQ1734WM/C-X	62	173.4	107	194.5	Φ19.05	Φ38.1	Φ41.3		47+49+49	50+50+50	39.4	385+385+385	400+400+400
GMV-VQ1790WM/C-X	64	179	107	201	Φ19.05	Φ38.1	Φ41.3		48+49+49	50+50+50	39.4	385+385+385	400+400+400
GMV-VQ1845WM/C-X	66	184.5	111	207	Φ19.05	Φ38.1	Φ41.3		49+49+49	50+50+50	39.9	385+385+385	400+400+400
GMV-VQ1905WM/C-X	68	190.5	109.7	213.5	Φ22.2	Φ41.3	Φ44.5		23.5+33.5+48+49	25+40+50+50	46.2	243+325+385+385	253+340+400+400
GMV-VQ1959WM/C-X	70	195.9	119.2	220	Φ22.2	Φ41.3	Φ44.5		23.5+47+48+49	25+50+50+50	47.4	243+385+385+385	253+400+400+400
GMV-VQ2015WM/C-X	72	201.5	119.2	226.5	Φ22.2	Φ41.3	Φ44.5		23.5+48+48+49	25+50+50+50	47.4	243+385+385+385	253+400+400+400
GMV-VQ2070WM/C-X	74	207	123.2	232.5	Φ22.2	Φ41.3	Φ44.5		23.5+48+49+49	25+50+50+50	47.9	243+385+385+385	253+400+400+400
GMV-VQ2125WM/C-X	76	212.5	127.2	238.5	Φ22.2	Φ41.3	Φ44.5		23.5+49+49+49	25+50+50+50	48.4	243+385+385+385	253+400+400+400
GMV-VQ2180WM/C-X	78	218	129.5	244.5	Φ22.2	Φ41.3	Φ44.5		24.1+49+49+49	25+50+50+50	49.5	256+385+385+385	266+400+400+400
GMV-VQ2245WM/C-X	80	224.5	134.5	252	Φ22.2	Φ41.3	Φ44.5		32.5+49+49+49	40+50+50+50	51	320+385+385+385	355+400+400+400
GMV-VQ2295WM/C-X	82	229.5	134.5	257	Φ22.2	Φ41.3	Φ44.5		33.5+49+49+49	40+50+50+50	51.5	325+385+385+385	340+400+400+400
GMV-VQ2349WM/C-X	84	234.9	144	263.5	Φ22.2	Φ41.3	Φ44.5		47+49+49+49	50+50+50+50	52.7	385+385+385+385	400+400+400+400
GMV-VQ2405WM/C-X	86	240.5	144	270	Φ22.2	Φ41.3	Φ44.5		48+49+49+49	50+50+50+50	52.7	385+385+385+385	400+400+400+400
GMV-VQ2460WM/C-X	88	246	148	276	Φ22.2	Φ41.3	Φ44.5		49+49+49+49	50+50+50+50	53.2	385+385+385+385	400+400+400+400

GMV5 HR



Heat Recovery Series

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



Golden fin condenser

Inner groove copper

High efficiency

Intelligent defrosting

Long-distance monitoring

Quiet function

Modular operating*

Comprehensive protection

Wide voltage range

Compact design

Easier maintainability

Centralized control

Wide operation range

- » All DC Inverter Technology. All DC inverter compressor is used in this system. It can directly intake gas to reduce loss of overheat and improve efficiency.
- » 82 Pa Wide Application Location.
- » Advanced Control Functions.
- » Better Reliability.
- » Wide Operation Range: Cooling: -5°C~52°C; Heating: -20°C~24°C; Cooling and heating: -10°C~20°C.
- » Flexible Piping Design.



HR Lineup

HP	Model	Product Outlook	Model	Product Outlook
8HP	GMV-Q224WM/E-X		NCHS1C	
10HP	GMV-Q280WM/E-X		NCHS2C	
12HP	GMV-Q335WM/E-X		NCHS4C	
14HP	GMV-Q400WM/E-X		NCHS8C	
16HP	GMV-Q450WM/E-X			

Specifications

50/60 Hz

Model			GMV-Q224WM/E-X	GMV-Q280WM/E-X	GMV-Q335WM/E-X	GMV-Q400WM/E-X	GMV-Q450WM/E-X
Capacity range		HP	8	10	12	14	16
Cooling capacity	Rated ¹	kW	22.4	28	33.5	40	45
	Rated ¹	kW	22.4	28/31.5 ²	33.5	40	45
Heating capacity	Max.	kW	25	31.5	37.5	45	50
	Ducted	-	6.83	9.22	7.59	7.28	6.41
SEER ¹	Cassette	-	6.15	5.78	5.88	6.19	6.29
	Ducted	-	4.53	4.76	4.80	4.16	4.00
SCOP ¹	Cassette	-	3.74	3.99	3.62	4.01	3.56
Power supply		V/Ph/Hz	380-415V 3N~ 50/60Hz				
Min. circuit current		A	16.3	20.9	24.7	28.8	33.2
Max. fuse current		A	20	25	32	40	40
Maximum drive IDU NO.		unit	13	16	19	23	26
Refrigerant charge volume		kg	6.2	7.1	9.6	11.1	11.6
Sound pressure level(Cooling)		dB(A)	60	61	63	63	63
Sound power level(Cooling)	Ducted	dB(A)	86	90	86	89	93
	Cassette	dB(A)	86	87	86	90	94
Connecting pipe	Liquid	mm	Φ9.52	Φ9.52	Φ12.7	Φ12.7	Φ12.7
	High pressure gas	mm	Φ15.9	Φ19.05	Φ19.05	Φ22.2	Φ22.2
	Low pressure gas	mm	Φ19.05	Φ22.2	Φ25.4	Φ25.4	Φ28.6
Dimension (W×D×H)	Outline	mm	930×765×1605	930×765×1605	1340×765×1605	1340×765×1605	1340×765×1605
	Package	mm	1010×840×1775	1010×840×1775	1420×840×1775	1420×840×1775	1420×840×1775
Net weight		kg	233	233	302	346	346
Gross weight		kg	243	243	317	361	361
Loading quantity	40' GP	unit	24	24	16	16	16
	40' HQ	unit	24	24	16	16	16

Note:
1. The data is Eurovent certified.
2. It's the certificate data of the unit which is matched with duct-type unit and cassette unit respectively.

50/60 Hz

Model			NCHS1C	NCHS2C	NCHS4C	NCHS8C
Max.IDU branches		unit	1	2	4	8
No. of connectable IDU of each branch		unit	8	8	8	8
Total connectable IDU		unit	8	16	32	64
Max. capacity of each branch		kW	14.2	14.2	14.2	14.2
Max.capacity of connectable IDU		kW	14.2	28	45	68
Power supply		V/Ph/Hz	220-240V ~ 50/60Hz			
Power consumption		W	8	28	44	80
Max. branch quantity of connecting IDU		unit	1	2	4	8
Outdoor unit piping connection	Liquid	mm	Φ9.52	Φ9.52	Φ12.7	Φ15.9
	Gas(Low pressure)	mm	Φ22.2		Φ28.6	
	Gas(High pressure)	mm	Φ15.9	Φ19.05	Φ22.2	Φ22.2
Indoor unit piping connection	Liquid	mm	Φ9.52	Φ9.52	Φ9.52	Φ9.52
	Gas	mm	Φ15.9	Φ15.9	Φ15.9	Φ15.9
Dimensions (W×D×H)	Outline	mm	388×302×225	468×377×225	587×399×225	987×488×225
	Package	mm	805×403×305	946×646×365	1123×676×345	1524×861×315
Net weight/Gross weight		kg	9/12.2	15.6/23.4	18.6/24.6	37/46.6

Note: GMV-Q**WM/E-X and NCHS*C are fixed match, which cannot match with the outdoor units and mode exchangers of other types.

ODU Combination Lineup

Model	GMV-Q224WM/E-X	GMV-Q280WM/E-X	GMV-Q335WM/E-X	GMV-Q400WM/E-X	GMV-Q450WM/E-X
GMV-Q224WM/E-X	●				
GMV-Q280WM/E-X		●			
GMV-Q335WM/E-X			●		
GMV-Q400WM/E-X				●	
GMV-Q450WM/E-X					●
GMV-Q504WM/E-X	●	●			
GMV-Q560WM/E-X		●●			
GMV-Q615WM/E-X		●	●		
GMV-Q680WM/E-X		●		●	
GMV-Q730WM/E-X		●			●
GMV-Q785WM/E-X			●		●
GMV-Q850WM/E-X				●	●
GMV-Q900WM/E-X					●●
GMV-Q960WM/E-X		●●		●	
GMV-Q1010WM/E-X		●●			●
GMV-Q1065WM/E-X		●	●		●
GMV-Q1130WM/E-X		●		●	●
GMV-Q1180WM/E-X		●			●●
GMV-Q1235WM/E-X			●		●●
GMV-Q1300WM/E-X				●	●●
GMV-Q1350WM/E-X					●●●
GMV-Q1410WM/E-X		●●		●	●
GMV-Q1460WM/E-X		●●			●●
GMV-Q1515WM/E-X		●	●		●●
GMV-Q1580WM/E-X		●		●	●●
GMV-Q1630WM/E-X		●			●●●
GMV-Q1685WM/E-X			●		●●●
GMV-Q1750WM/E-X				●	●●●
GMV-Q1800WM/E-X					●●●●

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

Specification of ODU Combination

Model	Capacity range	Cooling capacity	Heating capacity		Power supply	Min. circuit current	Max. fuse current	Refrigerant charge volume	Connecting pipe			Net weight	Gross weight
		Rated	Rated	Max.					Liquid	High pressure gas	Low pressure gas		
	HP	kW	kW	kW	V/Ph/Hz	A	A	kg	mm	mm	mm	kg	kg
GMV-Q504WM/E-X	18	50.4	50.4	56.5	380-415V 3N~50/60Hz	16.3+20.9	20+25	13.3	Φ15.9	Φ25.4	Φ28.6	466	486
GMV-Q560WM/E-X	20	56	56	63		20.9+20.9	25+25	14.2	Φ15.9	Φ25.4	Φ28.6	466	486
GMV-Q615WM/E-X	22	61.5	61.5	69		20.9+24.7	25+32	16.7	Φ15.9	Φ25.4	Φ28.6	535	560
GMV-Q680WM/E-X	24	68	68	76.5		20.9+28.8	25+40	18.2	Φ15.9	Φ25.4	Φ28.6	579	604
GMV-Q730WM/E-X	26	73	73	81.5		20.9+33.2	25+40	18.7	Φ19.05	Φ28.6	Φ31.8	579	604
GMV-Q785WM/E-X	28	78.5	78.5	87.5		24.7+33.2	32+40	21.2	Φ19.05	Φ28.6	Φ31.8	648	678
GMV-Q850WM/E-X	30	85	85	95		28.8+33.2	40+40	22.7	Φ19.05	Φ28.6	Φ31.8	692	722
GMV-Q900WM/E-X	32	90	90	100		33.2+33.2	40+40	23.2	Φ19.05	Φ28.6	Φ31.8	692	722
GMV-Q960WM/E-X	34	96	96	108		20.9+20.9+28.8	25+25+40	25.3	Φ19.05	Φ28.6	Φ31.8	812	847
GMV-Q1010WM/E-X	36	101	101	113		20.9+20.9+33.2	25+25+40	25.8	Φ19.05	Φ31.8	Φ38.1	812	847
GMV-Q1065WM/E-X	38	106.5	106.5	119		20.9+24.7+33.2	25+32+40	28.3	Φ19.05	Φ31.8	Φ38.1	881	921
GMV-Q1130WM/E-X	40	113	113	126.5		20.9+28.8+33.2	25+40+40	29.8	Φ19.05	Φ31.8	Φ38.1	925	965
GMV-Q1180WM/E-X	42	118	118	131.5		20.9+33.2+33.2	25+40+40	30.3	Φ19.05	Φ31.8	Φ38.1	925	965
GMV-Q1235WM/E-X	44	123.5	123.5	137.5		24.7+33.2+33.2	32+40+40	32.8	Φ19.05	Φ31.8	Φ38.1	994	1039
GMV-Q1300WM/E-X	46	130	130	145		28.8+33.2+33.2	40+40+40	34.3	Φ19.05	Φ31.8	Φ38.1	1038	1083
GMV-Q1350WM/E-X	48	135	135	150		33.2+33.2+33.2	40+40+40	34.8	Φ19.05	Φ31.8	Φ38.1	1038	1083
GMV-Q1410WM/E-X	50	141	141	158		20.9+20.9+28.8+33.2	25+25+40+40	36.9	Φ19.05	Φ38.1	Φ41.3	1158	1208
GMV-Q1460WM/E-X	52	146	146	163		20.9+20.9+33.2+33.2	25+25+40+40	37.4	Φ19.05	Φ38.1	Φ41.3	1158	1208
GMV-Q1515WM/E-X	54	151.5	151.5	169		20.9+24.7+33.2+33.2	25+32+40+40	39.9	Φ19.05	Φ38.1	Φ41.3	1227	1282
GMV-Q1580WM/E-X	56	158	158	176.5		20.9+28.8+33.2+33.2	25+40+40+40	41.4	Φ19.05	Φ38.1	Φ41.3	1271	1326
GMV-Q1630WM/E-X	58	163	163	181.5	20.9+33.2+33.2+33.2	25+40+40+40	41.9	Φ19.05	Φ38.1	Φ41.3	1271	1326	
GMV-Q1685WM/E-X	60	168.5	168.5	187.5	24.7+33.2+33.2+33.2	32+40+40+40	44.4	Φ19.05	Φ38.1	Φ41.3	1340	1400	
GMV-Q1750WM/E-X	62	175	175	195	28.8+33.2+33.2+33.2	40+40+40+40	45.9	Φ19.05	Φ38.1	Φ41.3	1384	1444	
GMV-Q1800WM/E-X	64	180	180	200	33.2+33.2+33.2+33.2	40+40+40+40	46.4	Φ19.05	Φ38.1	Φ41.3	1384	1444	

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

Indoor Units Lineup

Specifications of Indoor Units

[illegible]

High Static Pressure Duct Type Indoor Unit

50/60 Hz

	Model		GMV-ND22PHS/B-T	GMV-ND25PHS/B-T	GMV-ND28PHS/B-T	GMV-ND32PHS/B-T	GMV-ND36PHS/B-T	GMV-ND40PHS/B-T
Capacity	Cooling	kW	2.2	2.5	2.8	3.2	3.6	4.0
	Heating	kW	2.5	2.8	3.2	3.6	4.0	4.5
Power supply		V/Ph/Hz	220-240V ~ 50Hz & 208-230V ~ 60Hz					
Power consumption		W	55	55	55	65	65	85
Airflow volume(H/M/L)		m³/h	550/480/400	550/480/400	550/480/400	600/500/420	600/500/420	850/700/600
Rated current	Cooling	A	0.5	0.5	0.5	0.5	0.5	0.5
	Heating	A	0.5	0.5	0.5	0.5	0.5	0.5
	Water heating	A	/	/	/	/	/	/
ESP		Pa	60/0 ~ 150	60/0 ~ 150	60/0 ~ 150	60/0 ~ 150	60/0 ~ 150	60/0 ~ 150
Sound pressure level(H/M/L)		dB(A)	33/30/28	33/30/28	33/30/28	33/31/29	33/31/29	36/34/32
Connecting pipe	Liquid	mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35
	Gas	mm	Φ9.52	Φ9.52	Φ9.52	Φ12.7	Φ12.7	Φ12.7
Drain pipe	External dia.	mm	Φ25	Φ25	Φ25	Φ25	Φ25	Φ25
	Thickness	mm	2.5	2.5	2.5	2.5	2.5	2.5
Dimension (W×D×H)	Outline	mm	700×700×300	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	897×808×360
Net weight/Gross weight		kg	32/38	32/38	32/38	32/38	32/38	34/40
Loading quantity	40' GP	unit	168	168	168	168	168	168
	40' HQ	unit	196	196	196	196	196	196

	Model		GMV-ND45PHS/B-T	GMV-ND50PHS/B-T	GMV-ND56PHS/B-T	GMV-ND63PHS/B-T	GMV-ND71PHS/B-T	GMV-ND80PHS/B-T
Capacity	Cooling	kW	4.5	5.0	5.6	6.3	7.1	8.0
	Heating	kW	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	85	85	90	100	100	100
Airflow volume(H/M/L)		m³/h	850/700/600	850/700/600	1000/800/700	1000/800/700	1250/1050/950	1250/1050/950
Rated current	Cooling	A	0.5	0.5	0.8	0.8	0.8	0.8
	Heating	A	0.5	0.5	0.8	0.8	0.8	0.8
	Water heating	A	/	/	/	/	/	/
ESP		Pa	60/0 ~ 150	60/0 ~ 150	90/0 ~ 200	90/0 ~ 200	90/0 ~ 200	90/0 ~ 200
Sound pressure level(H/M/L)		dB(A)	36/34/32	36/34/32	37/35/33	37/35/33	38/36/34	38/36/34
Connecting pipe	Liquid	mm	Φ6.35	Φ6.35	Φ9.52	Φ9.52	Φ9.52	Φ9.52
	Gas	mm	Φ12.7	Φ12.7	Φ15.9	Φ15.9	Φ15.9	Φ15.9
Drain pipe	External dia.	mm	Φ25	Φ25	Φ25	Φ25	Φ25	Φ25
	Thickness	mm	2.5	2.5	2.5	2.5	2.5	2.5
Dimension (W×D×H)	Outline	mm	700×700×300	700×700×300	1000×700×300	1000×700×300	1000×700×300	1000×700×300
	Package	mm	897×808×360	897×808×360	1205×813×360	1205×813×360	1205×813×360	1205×813×360
Net weight/Gross weight		kg	34/40	34/40	43/49	43/49	43/49	43/49
Loading quantity	40' GP	unit	168	168	138	138	138	138
	40' HQ	unit	196	196	161	161	161	161

	Model		GMV-ND90 PHS/B-T	GMV-ND100 PHS/B-T	GMV-ND112 PHS/B-T	GMV-ND125 PHS/B-T	GMV-ND140 PHS/B-T	GMV-ND160 PHS/B-T	GMV-ND224 PH/A-T	GMV-ND280 PH/A-T
Capacity	Cooling	kW	9.0	10.0	11.2	12.5	14.0	16.0	22.4	28.0
	Heating	kW	10.0	11.2	12.5	14.0	16.0	18.0	25.0	31.0
Power supply		V/Ph/Hz	220-240V ~ 50Hz & 208-230V ~ 60Hz							
Power consumption		W	140	140	160	160	220	230	800	900
Airflow volume(H/M/L)		m³/h	1800/1450/1250	1800/1450/1250	2000/1600/1400	2000/1600/1400	2350/1900/1650	2500/2000/1750	4000/3600/3200	4400/4000/3600
Rated current	Cooling	A	1.1	1.1	1.1	1.1	2.0	2.0	3.7	4.1
	Heating	A	1.1	1.1	1.1	1.1	2.0	2.0	3.7	4.1
	Water heating	A	/	/	/	/	/	/	/	/
ESP		Pa	90/0 ~ 200	90/0 ~ 200	90/0 ~ 200	90/0 ~ 200	90/0 ~ 200	90/0 ~ 200	100/50~200	100/50~200
Sound pressure level(H/M/L)		dB(A)	40/37/35	40/37/35	40/38/36	40/38/36	42/39/37	44/41/38	54/52/49	55/52/50
Connecting pipe	Liquid	mm	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52
	Gas	mm	Φ15.9	Φ15.9	Φ15.9	Φ15.9	Φ15.9	Φ19.05	Φ19.05	Φ22.2
Drain pipe	External dia.	mm	Φ25	Φ25	Φ25	Φ25	Φ25	Φ25	Φ25	Φ25
	Thickness	mm	2.5	2.5	2.5	2.5	2.5	2.0	2.0	2.0
Dimension (W×D×H)	Outline	mm	1400×700×300	1400×700×300	1400×700×300	1400×700×300	1400×700×300	1400×700×300	1483×791×385	1686×870×450
	Package	mm	1601×813×360	1601×813×360	1601×813×360	1601×813×360	1678×808×365	1678×808×365	1578×883×472	1788×988×580
Net weight/Gross weight		kg	57/64	57/64	57/64	57/64	58/67	58/67	82/104	105/140
Loading quantity	40' GP	unit	84	84	84	84	84	84	60	52
	40' HQ	unit	98	98	98	98	98	98	75	52

General Static Pressure Duct-type Indoor Unit

50/60 Hz

	Model		GMV-ND18PLS/C-T	GMV-ND22PLS/C-T	GMV-ND25PLS/C-T	GMV-ND28PLS/C-T	GMV-ND32PLS/C-T	GMV-ND36PLS/C-T
Capacity	Cooling	kW	1.8	2.2	2.5	2.8	3.2	3.6
	Heating	kW	2.2	2.5	2.8	3.2	3.6	4.0
Power supply		V/Ph/Hz	220-240V ~ 50Hz & 208-230V ~ 60Hz					
Power consumption		W	/	28	28	28	37	37
Airflow volume (H/M/L)		m³/h	450/350/200	450/350/200	450/350/200	450/350/200	550/400/300	550/400/300
Rated current	Cooling	A	0.2	0.2	0.2	0.2	0.3	0.3
	Heating	A	0.2	0.2	0.2	0.2	0.3	0.3
ESP		Pa	15/30/0~30	15/30/0~30	15/30/0~30	15/30/0~30	15/30/0~30	15/30/0~30
Sound pressure level(H/M/L)		dB(A)	30/25/22	30/25/22	30/25/22	30/25/22	31/27/25	31/27/25
Connecting pipe	Liquid	mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35
	Gas	mm	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ12.7	Φ12.7
Drain pipe	External dia.	mm	Φ25	Φ25	Φ25	Φ25	Φ25	Φ25
	Thickness	mm	2.5	2.5	2.5	2.5	2.5	2.5
Dimension (W×D×H)	Outline	mm	710×462×200	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	1008×568×275
Net weight/Gross weight		kg	18.5/23.5	18.5	18.5	18.5	19	19
Loading quan- tity	40'GP	unit	386	386	386	386	386	386
	40'HQ	unit	430	430	430	430	430	430

	Model		GMV-ND40PLS/C-T	GMV-ND45PLS/C-T	GMV-ND50PLS/C-T	GMV-ND56PLS/C-T	GMV-ND63PLS/C-T	GMV-ND71PLS/C-T
Capacity	Cooling	kW	4	4.5	5.0	5.6	6.3	7.1
	Heating	kW	4.5	5.0	5.6	6.3	7.1	8.0
Power supply		V/Ph/Hz	220-240V ~ 50Hz & 208-230V ~ 60Hz					
Power consumption		W	40	40	55	55	55	55
Airflow volume (H/M/L)		m³/h	750/550/400	750/550/400	850/700/550	850/700/550	850/700/550	1100/850/650
Rated current	Cooling	A	0.3	0.3	0.4	0.4	0.4	0.5
	Heating	A	0.3	0.3	0.4	0.4	0.4	0.5
ESP		Pa	15/30/0~30	15/30/0~30	15/30/0~30	15/30/0~30	15/30/0~30	15/30/0~30
Sound pressure level(H/M/L)		dB(A)	33/29/27	33/29/27	35/31/29	35/31/29	35/31/29	37/32/30
Connecting pipe	Liquid	mm	Φ6.35	Φ6.35	Φ6.35	Φ9.52	Φ9.52	Φ9.52
	Gas	mm	Φ12.7	Φ12.7	Φ12.7	Φ15.9	Φ15.9	Φ15.9
Drain pipe	External dia.	mm	Φ25	Φ25	Φ25	Φ25	Φ25	Φ25
	Thickness	mm	2.5	2.5	2.5	2.5	2.5	2.5
Dimension (W×D×H)	Outline	mm	1010×462×200	1010×462×200	1010×462×200	1010×462×200	1010×462×200	1310×462×200
	Package	mm	1308×568×275	1308×568×275	1308×568×275	1308×568×275	1308×568×275	1608×568×275
Net weight/Gross weight		kg	25	25	25	25	25	31
Loading quan- tity	40'GP	unit	288	288	288	288	288	229
	40'HQ	unit	340	340	340	340	340	257

Model			GMV-ND80PLS/C-T	GMV-ND90PLS/C-T	GMV-ND100PLS/C-T	GMV-ND112PLS/C-T	GMV-ND125PLS/C-T	GMV-ND140PLS/C-T
Capacity	Cooling	kW	8	9	10	11.2	12.5	14
	Heating	kW	9	10	11.2	12.5	14	16
Power supply		V/Ph/Hz	220-240V ~ 50Hz & 208-230V ~ 60Hz					
Power consumption		W	110	130	130	130	170	170
Airflow volume (H/M/L)		m³/h	1250/1100/900	1500/1250/900	1500/1350/1000	1700/1500/1100	2000/1700/1400	2000/1700/1400
Rated current	Cooling	A	0.53	0.63	0.63	0.63	0.8	0.8
	Heating	A	0.53	0.63	0.63	0.63	0.8	0.8
ESP		Pa	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	40/36/32	40/36/32	40/36/32	42/40/37	42/40/37
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	Φ25	Φ25	Φ25	Φ25	Φ25	Φ25
	Thickness	mm	2.5	2.5	2.5	2.5	2.5	2.5
Dimension (W×D×H)	Outline	mm	1200×655×260	1340×655×260	1340×655×260	1340×655×260	1340×655×260	1340×655×260
	Package	mm	1448×858×315	1588×858×315	1588×858×315	1588×858×315	1588×858×315	1588×858×315
Net weight/Gross weight		kg	39.0/48.0	45.5/54.5	45.5/54.5	45.5/54.5	46.5/55.5	46.5/55.5
Loading quantity	40'GP	unit	154	105	105	105	105	105
	40'HQ	unit	176	120	120	120	120	120

360° Air Discharge Cassette Indoor Unit

50/60 Hz

Model			GMV-ND22T/C-T	GMV-ND28T/C-T	GMV-ND36T/C-T	GMV-ND45T/C-T	GMV-ND50T/C-T	GMV-ND56T/C-T	GMV-ND63T/C-T
Capacity	Cooling	kW	2.2	2.8	3.6	4.5	5	5.6	6.3
	Heating	kW	2.5	3.2	4	5	5.6	6.3	7.1
Power supply		V/Ph/Hz	220-240V ~ 50Hz & 208-230V ~ 60Hz						
Power consumption	Cooling	W	26	26	26	26	28	35	35
	Heating	W	22	22	22	22	25	35	35
Airflow volume(H/M/L)		m³/h	800/700/600	800/700/600	800/700/600	800/700/600	900/800/700	950/850/750	950/850/750
Input current	Cooling	A	0.2	0.2	0.2	0.2	0.2	0.2	0.2
	Heating	A	0.2	0.2	0.2	0.2	0.2	0.2	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	37/33/30	37/34/31
Connecting pipe	Gas	mm	Φ9.52	Φ9.52	Φ12.7	Φ12.7	Φ12.7	Φ15.9	Φ15.9
	Liquid	mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ9.52	Φ9.52
Drain pipe	External dia.	mm	Φ25	Φ25	Φ25	Φ25	Φ25	Φ25	Φ25
	Thickness	mm	2.5	2.5	2.5	2.5	2.5	2.5	2.5
Main body	Dimension (W×D×H)	Outline	mm	840×840×240	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	963×963×325
	Net weight/Gross weight		kg	27/35	27/35	27/35	27/35	28/36	28/36
Panel	Dimension (W×D×H)	Outline	mm	950×950×65	950×950×65	950×950×65	950×950×65	950×950×65	950×950×65
		Package	mm	1038×1033×112	1038×1033×112	1038×1033×112	1038×1033×112	1038×1033×112	1038×1038×112
	Net weight/Gross weight		kg	6/9.5	6/9.5	6/9.5	6/9.5	6/9.5	6/9.5
Loading quantity	40'GP	unit	120	120	120	120	120	120	120
	40'HQ	unit	140	140	140	140	140	140	140

Model			GMV-ND71T/C-T	GMV-ND80T/C-T	GMV-ND90T/C-T	GMV-ND100T/C-T	GMV-ND112T/C-T	GMV-ND125T/C-T	GMV-ND140T/C-T
Capacity	Cooling	kW	7.1	8	9	10	11.2	12.5	14
	Heating	kW	8	9	10	11.2	12.5	14	16
Power supply		V/Ph/Hz	220-240V ~ 50Hz & 208-230V ~ 60Hz						
Power consumption	Cooling	W	60	68	68	80	80	95	115
	Heating	W	56	68	68	76	76	92	111
Airflow volume(H/M/L)		m³/h	1150/950/850	1250/1000/900	1250/1000/900	1250/1000/900	1650/1300/1100	1650/1300/1100	1650/1300/1100
Input current	Cooling	A	0.4	0.4	0.4	0.4	0.4	0.5	0.6
	Heating	A	0.4	0.4	0.4	0.4	0.4	0.5	0.6
Sound pressure level(H/M/L)		dB(A)	37/34/31	39/37/34	39/37/34	39/37/34	43/41/39	43/41/39	43/41/39
Connecting pipe	Gas	mm	Φ15.9	Φ15.9	Φ15.9	Φ15.9	Φ15.9	Φ15.9	Φ15.9
	Liquid	mm	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52
Drain pipe	External dia.	mm	Φ25	Φ25	Φ25	Φ25	Φ25	Φ25	Φ25
	Thickness	mm	2.5	2.5	2.5	2.5	2.5	2.5	2.5
Main body	Dimension (W×D×H)	Outline	mm	840×840×240	840×840×240	840×840×240	840×840×240	840×840×290	840×840×290
		Package	mm	963×963×325	963×963×325	963×963×325	963×963×325	963×963×379	963×963×379
	Net weight/Gross weight		kg	28/36	29/37	29/37	29/37	33/42	33/42
Panel	Dimension (W×D×H)	Outline	mm	950×950×65	950×950×65	950×950×65	950×950×65	950×950×65	950×950×65
		Package	mm	1038×1038×112	1038×1038×112	1038×1038×112	1038×1038×112	1038×1038×112	1038×1038×112
	Net weight/Gross weight		kg	6/9.5	6/9.5	6/9.5	6/9.5	6/9.5	6/9.5
Loading quantity	40'GP	unit	120	120	120	120	120	120	120
	40'HQ	unit	140	140	140	140	140	140	140

Fresh Air Ventilation Kit

Model			XF150A-T*
Fresh Air Intake Volume		%	10
Dimension (W×D×H)	Outline	mm	834×834×60
	Package	mm	873×873×180
Dimension of the connrction		mm	150
		Pcs	2
Net weight/Gross weight		kg	2.7/7.7

*This model can be matched with 360°Air Discharge Cassette Indoor Units of GMV-ND**T/C-T series only.

360° Air Discharge Compact Cassette Indoor Unit (50/60Hz)

Model			GMV-ND15T/ E-T	GMV-ND18T/ E-T	GMV-ND22T/ E-T	GMV-ND28T/ E-T	GMV-ND36T/ E-T	GMV-ND45T/ E-T	GMV-ND50T/ E-T	GMV-ND56T/ E-T
Capacity	Cooling	kW	1.5	1.8	2.2	2.8	3.6	4.5	5.0	5.6
	Heating	kW	1.8	2.2	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	30	30	45	45	45
Airflow volume(H/M/L)		m³/h	460/420/370	460/420/370	500/460/370	570/480/420	620/550/480	730/650/560	730/650/560	730/650/560
Rated current	Cooling	A	0.15	0.15	0.15	0.15	0.15	0.23	0.23	0.23
	Heating	A	0.15	0.15	0.15	0.15	0.15	0.23	0.23	0.23
Sound pressure level(H/M/L)		dB(A)	33/30/25	33/30/25	36/31/25	36/33/28	39/37/35	43/41/39	43/41/39	43/41/39
Connecting pipe	Gas	mm	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ12.7	Φ12.7	Φ12.7	Φ15.9
	Liquid	mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ9.52
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	570×570×265	570×570×265	570×570×265	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	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	17.5/22.5	17.5/22.5	17.5/22.5	17.5/22.5
Panel	Dimension (W×D×H)	Outline	mm	620×620×47.5	620×620×47.5	620×620×47.5	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	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	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	378	378	378	378
	40'HQ	unit	432	432	432	432	432	432	432	432

2-way Cassette Indoor Unit (50/60Hz)

Model			GMV-ND28TS/A-T	GMV-ND36TS/A-T	GMV-ND45TS/A-T	GMV-ND50TS/A-T	GMV-ND56TS/A-T	GMV-ND63TS/A-T	GMV-ND71TS/A-T
Capacity	Cooling	kW	2.8	3.6	4.5	5.0	5.6	6.3	7.1
	Heating	kW	3.2	4.0	5.0	5.6	6.3	7.1	8.0
Power supply		V/Ph/Hz	220-240V ~ 50Hz & 208-230V ~ 60Hz						
Power consumption		W	55.0	55.0	55.0	55.0	103.0	103.0	103.0
Airflow volume(H/M/L)		m³/h	830/660/580	830/660/580	830/660/580	830/660/580	1100/900/750	1100/900/750	1100/900/750
		CFM	490/390/340	490/390/340	490/390/340	490/390/340	650/530/440	650/530/440	650/530/440
Rated current	Cooling	A	0.4	0.4	0.4	0.4	0.7	0.7	0.7
	Heating	A	0.4	0.4	0.4	0.4	0.7	0.7	0.7
	Water heating	A	/	/	/	/	/	/	/
Sound pressure level(H/M/L)		dB(A)	35/32/29	35/32/29	35/32/29	35/32/29	39/36/33	39/36/33	39/36/33
Connecting pipe	Liquid	mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ9.52	Φ9.52	Φ9.52
	Gas	mm	Φ9.52	Φ12.7	Φ12.7	Φ12.7	Φ15.9	Φ15.9	Φ15.9
Drain pipe	External dia.	mm	25	25	25	25	25	25	25
	Thickness	mm	2.5	2.5	2.5	2.5	2.5	2.5	2.5
Main body	Dimension (W×D×H)	Outline	mm	1200×520×315	1200×520×315	1200×520×315	1200×520×315	1200×520×315	1200×520×315
		Package	mm	1523×658×430	1523×658×430	1523×658×430	1523×658×430	1523×658×430	1523×658×430
	Net weight/Gross weight	kg	43/54	43/54	43/54	43/54	46/56	46/56	46/56
Panel	Dimension (W×D×H)	Outline	mm	1416×630×33	1416×630×33	1416×630×33	1416×630×33	1416×630×33	1416×630×33
		Package	mm	1578×768×120	1578×768×120	1578×768×120	1578×768×120	1578×768×120	1578×768×120
	Net weight/Gross weight	kg	7.0/11.0	7.0/11.0	7.0/11.0	7.0/11.0	7.0/11.0	7.0/11.0	7.0/11.0
Loading quantity	40'GP	unit	90	90	90	90	90	90	90
	40'HQ	unit	105	105	105	105	105	105	105

1-way Cassette Indoor Unit (50/60Hz)

Model			GMV-ND22TD/A-T	GMV-ND28TD/A-T	GMV-ND36TD/A-T	GMV-ND45TD/A-T	GMV-ND50TD/A-T	GMV-ND56TD/A-T
Capacity	Cooling	kW	2.2	2.8	3.6	4.5	5.0	5.6
	Heating	kW	2.5	3.2	4.0	5.0	5.6	6.3
Power supply		V/Ph/Hz	220-240V ~ 50Hz & 208-230V ~ 60Hz					
Power consumption		W	30	30	30	45	45	45
Airflow volume(H/M/L)		m³/h	600/500/450	600/500/450	600/500/450	830/600/500	830/600/500	890/667/564
		CFM	353/294/265	353/294/265	353/294/265	488/353/294	488/353/294	524/393/332
Rated current	Cooling	A	0.2	0.2	0.2	0.3	0.3	0.3
	Heating	A	0.2	0.2	0.2	0.3	0.3	0.3
	Water heating	A	/	/	/	/	/	/
Sound pressure level(H/M/L)		dB(A)	36/32/28	36/32/28	36/32/28	40/35/30	40/35/30	41/38/35
Connecting pipe	Liquid	mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ9.52
	Gas	mm	Φ9.52	Φ9.52	Φ12.7	Φ12.7	Φ12.7	Φ15.9
Drain pipe	External dia.	mm	25	25	25	25	25	25
	Thickness	mm	2.5	2.5	2.5	2.5	2.5	2.5
Main body	Dimension (W×D×H)	Outline	mm	987×385×178	987×385×178	987×385×178	987×385×178	987×385×178
		Package	mm	1307×501×310	1307×501×310	1307×501×310	1307×501×310	1307×501×310
	Net weight/Gross weight	kg	20.0/27.0	20.0/27.0	20.0/27.0	21.0/28.5	21.0/28.5	21/28.5
Panel	Dimension (W×D×H)	Outline	mm	1200×460×55	1200×460×55	1200×460×55	1200×460×55	1200×460×55
		Package	mm	1265×536×121	1265×536×121	1265×536×121	1265×536×121	1265×536×121
	Net weight/Gross weight	kg	4.2/6.0	4.2/6.0	4.2/6.0	4.2/6.0	4.2/6.0	4.2/6.0
Loading quantity	40'GP	unit	138	138	138	138	138	138
	40'HQ	unit	138	138	138	138	138	138

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
	Heating	kW	1.8	2.5	2.5	3.2	4	5	5.6
Power supply		V/Ph/Hz	220-240V ~ 50Hz & 208-230V ~ 60Hz						
Power consumption		W	/	/	20	20	25	35	35
Airflow volume (H/M/L)		m³/h	500/440/300	500/440/300	500/440/300	500/440/300	630/460/320	850/580/500	850/580/500
Rated current	Cooling	A	0.1	0.1	0.1	0.1	0.12	0.17	0.17
	Heating	A	0.1	0.1	0.1	0.1	0.12	0.17	0.17
Sound pressure level(H/M/L)		dB(A)	35/33/30	35/33/30	35/33/30	35/33/30	38/35/31	43/40/37	43/40/37
Connecting pipe	Liquid	mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35
	Gas	mm	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ12.7	Φ12.7	Φ12.7
Drain pipe	External dia.	mm	Φ20	Φ20	Φ20	Φ20	Φ20	Φ20	Φ20
	Thickness	mm	1.5	1.5	1.5	1.5	1.5	1.5	1.5
Dimension (W×D×H)	Outline	mm	845×209×289					970×224×300	
	Package	mm	976×281×379					1096×308×395	
Net weight/Gross weight		kg	10.5/12.5					12.5/15.5	
Loading quantity	40'GP	unit	576					448	
	40'HQ	unit	576					512	

Model			GMV-ND56G/B4B-T ¹	GMV-ND63G/B4B-T ¹	GMV-ND71G/B4B-T ¹	GMV-ND80G/B4B-T ¹	GMV-ND90G/B4B-T ¹	GMV-ND100G/B4B-T ¹
Capacity	Cooling	kW	5.6	6.3	7.1	8.0	9.0	9.5
	Heating	kW	6.3	7.1	7.5	9.0	10.0	10.5
Power supply		V/Ph/Hz	220-240V ~ 50Hz & 208-230V ~ 60Hz					
Power consumption		W	50	50	65	80	80	100
Airflow volume (H/M/L)		m³/h	1100/850/650	1100/850/650	1200/850/650	1550/1050/800	1550/1050/800	1650/1100/900
Rated current	Cooling	A	0.24	0.24	0.31	0.41	0.41	0.41
	Heating	A	0.24	0.24	0.31	0.41	0.41	0.41
Sound pressure level(H/M/L)		dB(A)	43/41/37	43/41/37	44/41/37	49/46/40	49/46/40	52/48/40
Connecting pipe	Liquid	mm	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52
	Gas	mm	Φ15.9	Φ15.9	Φ15.9	Φ15.9	Φ15.9	Φ15.9
Drain pipe	External dia.	mm	Φ20	Φ20	Φ20	Φ20	Φ20	Φ20
	Thickness	mm	1.5	1.5	1.5	1.5	1.5	1.5
Dimension (W×D×H)	Outline	mm	1078×246×325			1350×258×326		
	Package	mm	1203×338×425			1496×357×433		
Net weight/Gross weight		kg	16/19			18.5/23.5		
Loading quantity	40' GP	unit	282			228		
	40' HQ	unit	329			266		

Fresh Air Processing Indoor Unit

50/60 Hz

Model			GMV-NDX125P/A-T	GMV-NDX140P/A-T	GMV-NDX224P/A-T	GMV-NDX250P/A-T	GMV-NDX280P/A-T	GMV-NX450P/A(X4.0)-M	
Capacity	Cooling	kW	12.5	14.0	22.4	25.0	28.0	45.0	
	Heating	kW ¹	8.5	10.0	16.0	18.0	20.0	32.0	
		kW ²	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		W	200/350	200/350	400/760	520/860	520/860	1240	
Airflow volume(Default/Range)		m³/h	1200/1000~2000	1200/1000~2000	2000/1500~3000	2500/2000~3500	2500/2000~3500	4000	
Rated current	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	
ESP		Pa	150/50~200	150/50~200	200/50 ~ 300	200/50 ~ 300	200/50 ~ 300	200	
Sound pressure level(Default/Range)		dB(A)	46/40~50	46/40~50	45/45~54	47/47~54	47/47~54	58	
Connecting pipe	Liquid	mm	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ12.7	
	Gas	mm	Φ15.9	Φ15.9	Φ19.05	Φ22.2	Φ22.2	Φ28.6	
Drain pipe	External dia.	mm	Φ25	Φ25	Φ25	Φ25	Φ25	Φ33	
	Thickness	mm	2.5	2.5	2.0	2.0	2.0	3.0	
Dimension (W×D×H)	Outline	mm	1400×700×300	1400×700×300	1483×791×385	1483×791×385	1483×791×385	1700×1100×650	
	Package	mm	1601×813×365	1601×813×365	1578×883×472	1578×883×472	1578×883×472	1893×1463×838	
Net weight/Gross weight		kg	54/61	54/61	82/104	82/104	82/104	208/266	
Loading quantity	40'GP	unit	84	84	52	52	52	16	
	40'HQ	unit	98	98	65	65	65	16	

Note:

1. Rated cooling capacity test conditions: indoor 35°C DB/28°C WB, outdoor 35°C DB; connection pipe length: 7.5m, without height drop between units. The default air outlet temperature of the unit is 18°C.

2. Rated heating capacity test conditions: *1:indoor 7°C DB, outdoor 7°C DB/6°C WB, *2: indoor -7°C DB, outdoor 0°C DB / -2.9°C WB;connection pipe length: 7.5m, without height drop between units. The default air outlet temperature of the unit is 22°C.

3. Input power: the left side of "/" is the rated power while the right side is the maximum power;

4. 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;

5. Air volume: the left side of "/" is the rated air volume while the right side is the adjustable fresh air volume.

6. Input current: the left side of "/" is the rated current while the right side is the maximum current.

7. 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.

Console Indoor Unit

50/60 Hz

Model			GMV-ND22C/A-T	GMV-ND28C/A-T	GMV-ND36C/A-T	GMV-ND45C/A-T	GMV-ND50C/A-T
Capacity	Cooling	kW	2.2	2.8	3.6	4.5	5.0
	Heating	kW	2.5	3.2	4.0	5.0	5.5
Power supply		V/Ph/Hz	220-240V ~ 50Hz & 208-230V ~ 60Hz				
Power consumption		W	15	15	20	40	40
Airflow volume(H/M/L)		m³/h	400/320/270	400/320/270	480/400/310	680/600/500	680/600/500
Rated current	Cooling	A	0.17	0.17	0.25	0.4	0.4
	Heating	A	0.17	0.17	0.25	0.4	0.4
	Water heating	A	/	/	/	/	/
ESP		Pa	0	0	0	0	0
Sound pressure level(H/M/L)		dB(A)	38/33/27	38/33/27	40/37/32	46/43/39	46/43/39
Connecting pipe	Liquid	mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35
	Gas	mm	Φ9.52	Φ9.52	Φ12.7	Φ12.7	Φ12.7
Drain pipe	External dia.	mm	28	28	28	28	28
	Thickness	mm	1	1	1	1	1
Dimension (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 Ceiling Type Indoor Unit

50/60 Hz

Model			GMV-ND28ZD/A-T	GMV-ND36ZD/A-T	GMV-ND50ZD/A-T	GMV-ND56ZD/A-T	GMV-ND63ZD/A-T
Capacity	Cooling	kW	2.8	3.6	5.0	5.6	6.3
	Heating	kW	3.2	4.0	5.6	6.3	7.1
Power supply		V/Ph/Hz	220-240V ~ 50Hz & 208-230V ~ 60Hz				
Power consumption		W	40	40	50	50	75
Airflow volume(H/M/L)		m³/h	650/580/500	650/580/500	950/850/700	950/850/700	1400/1150/1000
Rated hurrent	Cooling	A	0.3	0.3	0.4	0.4	0.6
	Heating	A	0.3	0.3	0.4	0.4	0.6
	Water heating	A	/	/	/	/	/
Sound pressure level(H/M/L)		dB(A)	36/34/32	36/34/32	42/38/33	42/38/33	44/42/39
Connecting pipe	Liquid	mm	Φ6.35	Φ6.35	Φ6.35	Φ9.52	Φ9.52
	Gas	mm	Φ9.52	Φ12.7	Φ12.7	Φ15.9	Φ15.9
Drain pipe	External dia.	mm	Φ17	Φ17	Φ17	Φ17	Φ17
	Thickness	mm	1.75	1.75	1.75	1.75	1.75
Dimension (W×D×H)	Outline	mm	1220×700×225				1420×700×245
	Package	mm	1343×823×315				1548×828×345
Net weight/Gross weight		kg	40/49	40/49	40/49	40/49	50/58
Loading quantity	40' GP	unit	145	145	145	145	90
	40' HQ	unit	158	158	158	158	98

Model			GMV-ND71ZD/A-T	GMV-ND90ZD/A-T	GMV-ND112ZD/A-T	GMV-ND125ZD/A-T	GMV-ND140ZD/A-T	GMV-ND160ZD/A-T
Capacity	Cooling	kW	7.1	9.0	11.2	12.5	14.0	16.0
	Heating	kW	8.0	10.0	12.5	14.0	16.0	18.0
Power supply		V/Ph/Hz	220-240V ~ 50Hz & 208-230V ~ 60Hz					
Power consumption		W	75	140	160	160	160	200
Airflow volume(H/M/L)		m³/h	1400/1150/1000	1600/1400/1200	2000/1800/1450	2000/1800/1450	2000/1800/1450	2300/2100/1900
Rated current	Cooling	A	0.6	1.1	1.4	1.4	1.4	1.9
	Heating	A	0.6	1.1	1.4	1.4	1.4	1.9
	Water heating	A	/	/	/	/	/	/
Sound pressure level(H/M/L)		dB(A)	44/42/39	50/47/43	51/47/42	52/49/45	52/49/45	52/49/45
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	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	1420×700×245		1700×700×245			
	Package	mm	1548×828×345		1828×828×345			
Net weight/Gross weight		kg	50/58	50/58	60/68	60/68	60/68	60/68
Loading quantity	40' GP	unit	90	90	84	84	84	84
	40' HQ	unit	98	98	98	98	98	98

Model			GMV-ND90ZD/B-T ^{*1}	GMV-ND100ZD/B-T ^{*1}	GMV-ND112ZD/B-T ^{*1}	GMV-ND125ZD/B-T ^{*1}	GMV-ND140ZD/B-T ^{*1}	GMV-ND160ZD/B-T ^{*1}
Capacity	Cooling	kW	9.0	10.0	11.2	12.5	14.0	16.0
	Heating	kW	10.0	11.2	12.5	14.0	16.0	17.0
Power supply		V/Ph/Hz	220-240V ~ 50Hz & 208-230V ~ 60Hz					
Power consumption		W	140	140	160	160	160	200
Airflow volume (SL/H/M/L)		m³/h	1500/1380/1200/1020	1600/1500/1350/1260	1800/1700/1540/1400	1800/1700/1540/1400	2100/2000/1800/1480	2300/2200/1870/1590
Rated current	Cooling	A	1.1	1.1	1.4	1.4	1.4	1.9
	Heating	A	1.1	1.1	1.4	1.4	1.4	1.9
Sound pressure level(H/M/L)		dB(A)	47/43/39	47/43/39	47/44/42	47/44/42	50/48/44	53/49/45
Connecting pipe	Liquid	mm	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52
	Gas	mm	Φ15.9	Φ15.9	Φ15.9	Φ15.9	Φ15.9	Φ19.05
Drain pipe	External dia.	mm	Φ17	Φ17	Φ17	Φ17	Φ17	Φ17
	Thickness	mm	1.75	1.75	1.75	1.75	1.75	1.75
Dimension (W×D×H)	Outline	mm	1200×665×235	1200×665×235	1570×665×235	1570×665×235	1570×665×235	1570×665×235
	Package	mm	1363×770×300	1363×770×300	1729×770×300	1729×770×300	1729×770×300	1729×770×300
Net weight/Gross weight		kg	31.0/37.0	31.0/37.0	40.0/47.0	40.0/47.0	42.0/49.0	42.0/49.0
Loading quantity	40'GP	unit	98	98	53	53	53	53
	40'HQ	unit	113	113	64	64	64	64

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

Concealed Floor Standing Type

50/60 Hz

Model			GMV-ND22ZA/A-T	GMV-ND28ZA/A-T	GMV-ND36ZA/A-T	GMV-ND45ZA/A-T	GMV-ND56ZA/A-T	GMV-ND63ZA/A-T	GMV-ND71ZA/A-T
Capacity	Cooling	kW	2.2	2.8	3.6	4.5	5.6	6.3	7.1
	Heating	kW	2.5	3.2	4	5	6.3	7.1	8
Power supply		V/Ph/Hz	220-240V ~ 50Hz & 208-230V ~ 60Hz						
Power consumption		W	35	35	43	45	80	80	90
Airflow volume(H/M/L)		m³/h	450/350/250	450/350/250	550/450/350	650/500/400	900/750/600	900/750/600	1100/900/700
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	2.5	2.5	2.5	2.5	2.5	2.5	2.5
Dimension (W×D×H)	Outline	mm	700×615×200	700×615×200	700×615×200	900×615×200	1100×615×200	1100×615×200	1100×615×200
	Package	mm	893×743×305	893×743×305	893×743×305	1123×743×305	1323×743×305	1323×743×305	1323×743×305
Net weight/Gross weight		kg	23/30	23/30	23/30	27/36	32/41	32/41	32/41
Loading quantity	40'GP	unit	273	273	273	217	175	175	175
	40'HQ	unit	312	312	312	248	200	200	200

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

50/60 Hz

Model			GMV-ND100L/A-T		GMV-ND140L/A-T	
Capacity	Cooling	kW	10		14	
	Heating	kW	11		15	
Power supply		V/Ph/Hz	220V-240V ~ 50Hz & 208V/230V ~ 60Hz			
Power consumption		W	200		200	
Airflow volume(H/M/L)		m³/h	1850/1600/1400		1850/1600/1400	
		CFM	1089/942/824		1089/942/824	
Rated current	Cooling	A	1.5		1.5	
	Heating	A	1.5		1.5	
	Water heating	A	/		/	
ESP		Pa	0		0	
Sound pressure level(H/M/L)		dB(A)	50/48/46		50/48/46	
Connecting pipe	Liquid	mm	Φ9.52		Φ9.52	
	Gas	mm	Φ15.9		Φ15.9	
Drain pipe	External dia.	mm	31		31	
	Thickness	mm	4.5		4.5	
Dimension (W×D×H)	Outline	mm	1870×580×400			
	Package	mm	2083×738×545			
Net weight/Gross weight		kg	54/74		57/77	
Loading quantity	40' GP	unit	67		67	
	40' HQ	unit	67		67	

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			28					56			
	Heating	kW	4		8			16			31.5					63			
Adjustable capacity	Capacity		28	36	45	56	71	90	112	140	224	280	335	400	450	504	560	840	
	Cooling	kW	2.8	3.6	4.5	5.6	7.1	9	11.2	14	22.4	28	33.5	40	45	50.4	56	84	
	Heating	kW	3.2	4	5	6.3	8	10	12.5	16	25	31.5	37.5	45	50	56.5	63	94.5	
Power input		W	8		8			8			8					8			
Power supply		V/Ph/Hz	220-240V ~ 50Hz & 208-230V ~ 60Hz																
Size of connection pipe	AHU-KIT (ex-factory pipe size)		mm	Φ6.35	Φ6.35	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ15.9	Φ15.9	Φ15.9	
	Air handling unit	Liquid pipe	mm	Φ6.35	Φ6.35	Φ6.35	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ12.7	Φ12.7	Φ12.7	Φ15.9	Φ15.9	Φ19.05
		Gas pipe		Φ9.52	Φ12.7	Φ12.7	Φ15.9	Φ15.9	Φ15.9	Φ15.9	Φ15.9	Φ19.05	Φ22.2	Φ25.4	Φ25.4	Φ28.6	Φ28.6	Φ31.8	
			Connection method		Brazing Connection														
Outline dimension (W×D×H)		EXV box	mm	203×326×85		203×326×85		203×326×85			203×326×85					246×500×120			
		Control box		334×284×111		334×284×111		334×284×111			334×284×111					334×284×111			
Package dimension(W×D×H)			mm	539×461×247		539×461×247		539×461×247			539×461×247					759×645×180			
Net weight			kg	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-N140U/C-T	GMV-N560U/C-T +GMV-N280U/C-T	GMV-N560U/C-T +GMV-N560U/C-T		
Defaulted capacity of ex-factory	Capacity		840+140	840+280	840+560	840+840	840+840+140	840+840+280	840+840+560	840+840+840
	Cooling	kW	98	112	140	168	182	196	224	252
	Heating	kW	110.5	126	157.5	189	204.5	220.5	252	283.5
Power input		W	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	Φ22.2	Φ22.2	Φ22.2
		Gas pipe	mm	Φ38.1	Φ38.1	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		(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	

Control System



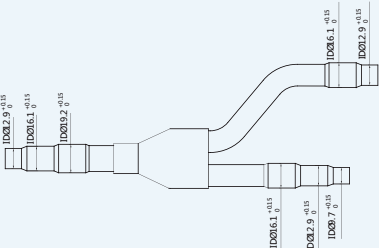
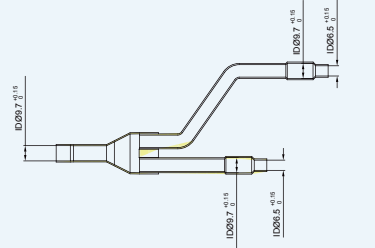
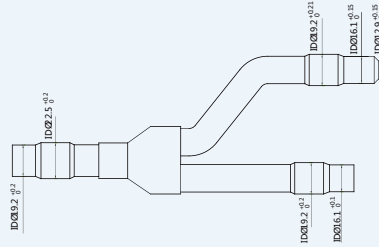
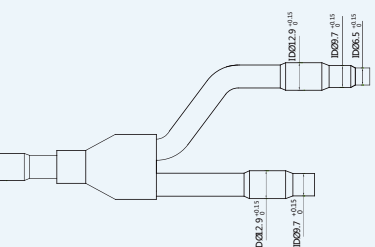
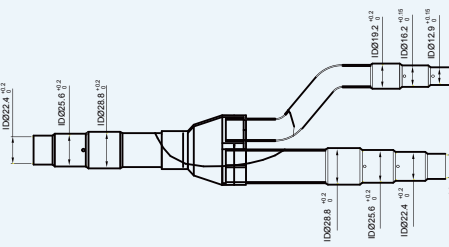
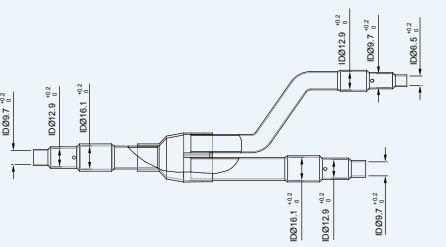
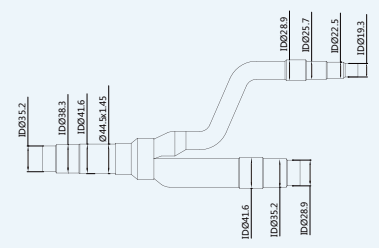
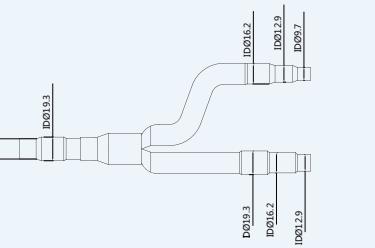
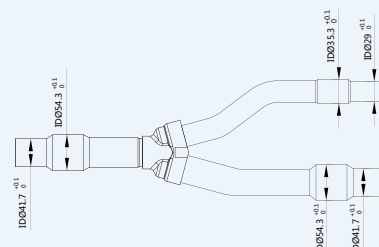
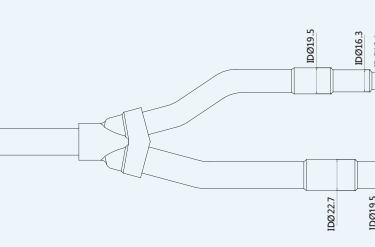
Control System Lineup

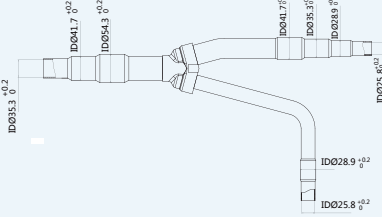
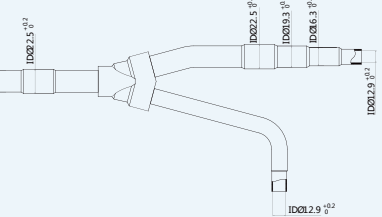
Controlling systems				GMV5	GMV5 MINI	GMV5 SLIM	GMV5 HR	GMV6	GMV6 HR
Long-distance monitor	Intelligent remote eudemon	FE30-24/DF(B)		○	○	○	○	○	○
		ME30-24/DF(B)							
	Gateway of building protocol	ME30-24/E5(M)		○	○	○	○	○	○
		ME30-24/E6(M)		○	○	○	○	○	○
		ME30-24/D1(BM)		○	○	○	○	○	○
		ME31-33/EH1(M)		○	○	○	○	○	○
		ME30-24/F1(K)		○	○	○	○	○	○
Intelligent billing eudemon	FE11-24/D4(B)		○	○	○	○	○	○	
	ME30-24/D1(T)								
G-Cloud		ME31-00C7 ME31-00C3		○	○	○	○	○	○
Other modules	Optoelectronic isolated converter	GD02		○	○	○	○	○	○
	Optoelectronic isolated signal mutliplier	RS485-W		○	○	○	○	○	○

Indoor series			Cassette type	(High ESP - Low ESP - Slim ducted) Duct type	Fresh air processing	Wall mounted type	Floor ceiling type	Console type	Floor standing type	Concealed floor standing type
Controlling system										
Wireless controller	YAP1F		●	○	○	●	●	●	●	○
	YV1L1		○	○	○	○	○	○	○	○
Wired controller	XK46		○	●	●	○	○	○	○	●
	XK79		○	○	○	○	○	○	○	○
	XK55		○	○	○	○	○	○	○	○
	XE70-33/H		○	○	○	○	○	○	○	○
	JS05(receiver)			○	○					○
Central controller	CE52-24/F(C)		○	○	○	○	○	○	○	○
E-Smart zone controller	CE54-24/F(C)		○	○	○	○	○	○	○	○
Debugger	CE42-24/F(C)		○	○	○	○	○	○	○	○

Note: ● means standard, ○ means optional.

Branching Joint (For GMV5 and GMV6 units)

For Indoor & Outdoor Units			
Model	Total capacity (xkW)	Appearance	
		Gas pipe	Liquid pipe
FQ01A/A	$X < 20$		
FQ01B/A	$20 \leq X \leq 30$		
FQ02/A	$30 < X \leq 70$		
FQ03/A	$70 < X \leq 135$		
FQ04/A	$135 < X$		

For Outdoor Units			Appearance	
Model			Gas pipe	Liquid pipe
ML01/A				

Branching Joint (For GMV5 and GMV6 units)

For Indoor Units		
Model	Sort	Blueprint
FQ14/H1	Gas pipe	
	Liquid pipe	
FQ18/H1	Gas pipe	
	Liquid pipe	
FQ18/H2	Gas pipe	
	Liquid pipe	

Total rated capacity of downstream indoor units X(kW)	Upstream connecting pipe dimension		Model of manifold pipe
	Gas pipe(mm)	Liquid pipe(mm)	
X≤40.0	≤Φ25.4	≤Φ12.7	FQ14/H1
X≤68.0	≤Φ28.6	≤Φ15.9	FQ18/H1
68.0<X	≥Φ31.8	≥Φ19.05	FQ18/H2

Branching Joint (For GMV5 Home Hydro box to IDU)

Model	Appearance	
	Gas Pipe	Liquid Pipe
FQ01B/A		

Branching Joint (For GMV5 Home Hydro box)

Model	Appearance	
	Gas Pipe	Liquid Pipe
FQ02W/A		

Branching Joint (For GMV5 HR and GMV6 HR)

For Outdoor Units and Mode Exchanger				
Model	Total capacity of the downstream indoor unit 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≤14.2		
FQ01B/A	14.2<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			

Reducer/expander pipe dimensions

CF333(54/45) ID 53.9 ID 44.7	CF334(41/38) ID 38.3 ID 41.2	CF335(35/32) ID 34.9 ID 32.1	CF342(13/10) ID 9.7 ID 12.6
CF336(35/29) ID 28.9 ID 34.9	CF337(29/25) ID 25.6 ID 28.7	CF338(26/22) ID 22.4 ID 25.5	CF343(13/6) ID 6.5 ID 12.6
CF339(26/19) ID 19.2 ID 25.5	CF340(19/16) ID 19.0 ID 16.3	CF341(16/13) ID 12.9 ID 16.0	CF344(10/6) ID 6.5 ID 9.52
CF345(13/16) ID 12.6 ID 16.3	CF346(16/19) ID 19.3 ID 16.0	CF347(19/22) ID 22.3 ID 19.0	CF348(23/25) ID 25.6 ID 22.3
CF349(29/32) ID 32.0 ID 28.7			

Branching Joint (For AHU KIT)

[illegible]

Energy Recovery Ventilation(ERV)

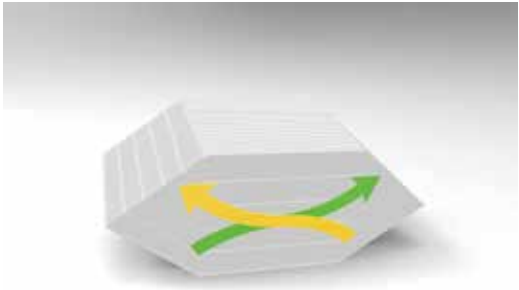


Gree Energy Recovery Ventilation System is designed especially for providing healthy and fresh indoor air, constant air volume and comfortable temperature and humidity with less power consumption. With F7-grade filter, it can effectively remove PM10, PM2.5 and other particles in the air;

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

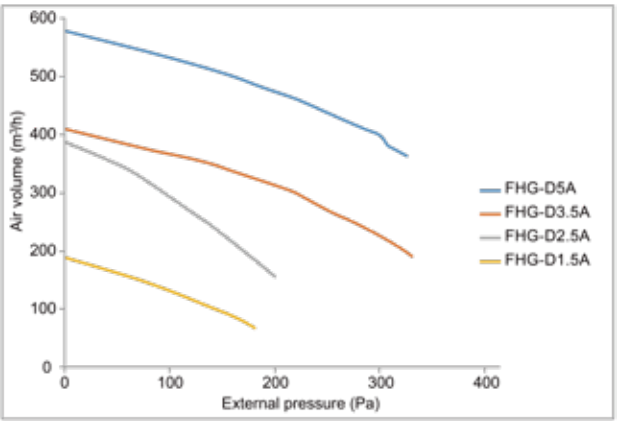
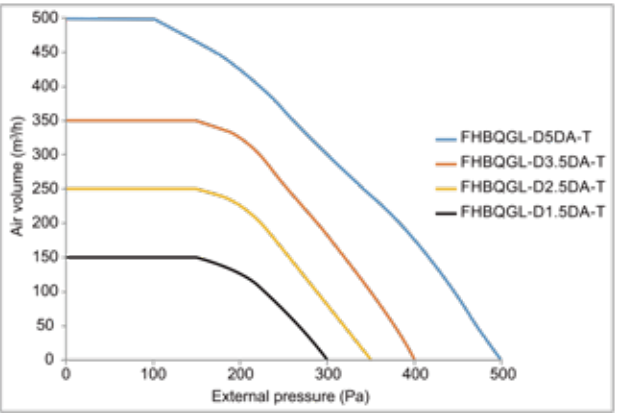
Note: The above air volume data is tested base on model FHBQGL-D3.5DA-T.



Constant Fresh Air Volume

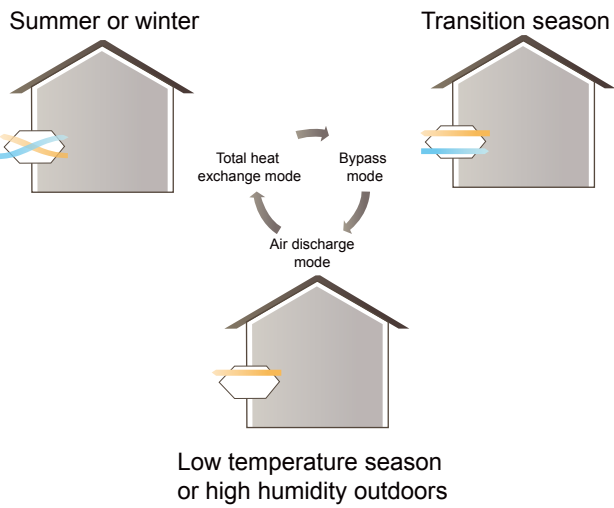
> System adopts DC motor and constant air volume control to realize air provision that will not be attenuated under certain range of static pressure. It can maintain sufficient supply of fresh air during operation, providing users with super comfortable experience.

> 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.

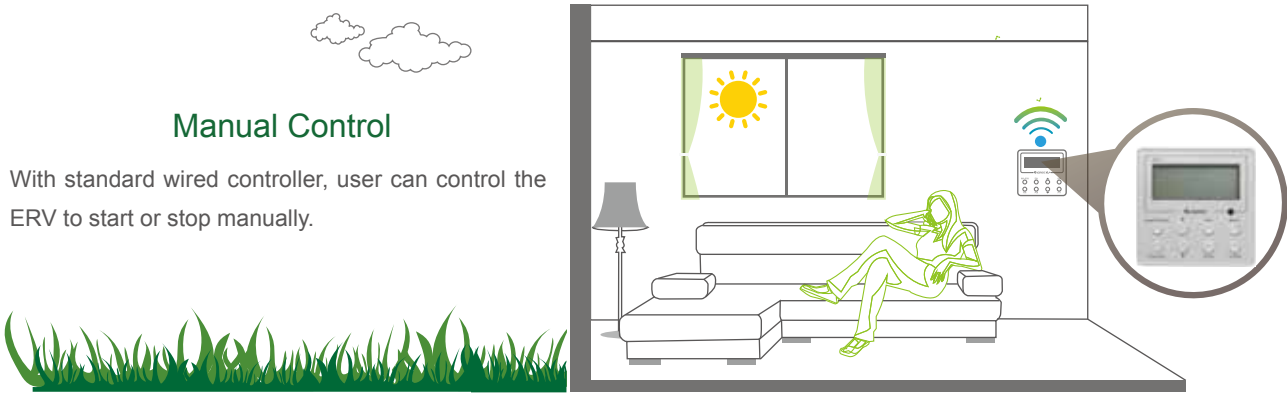


Intelligent Control

> 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.

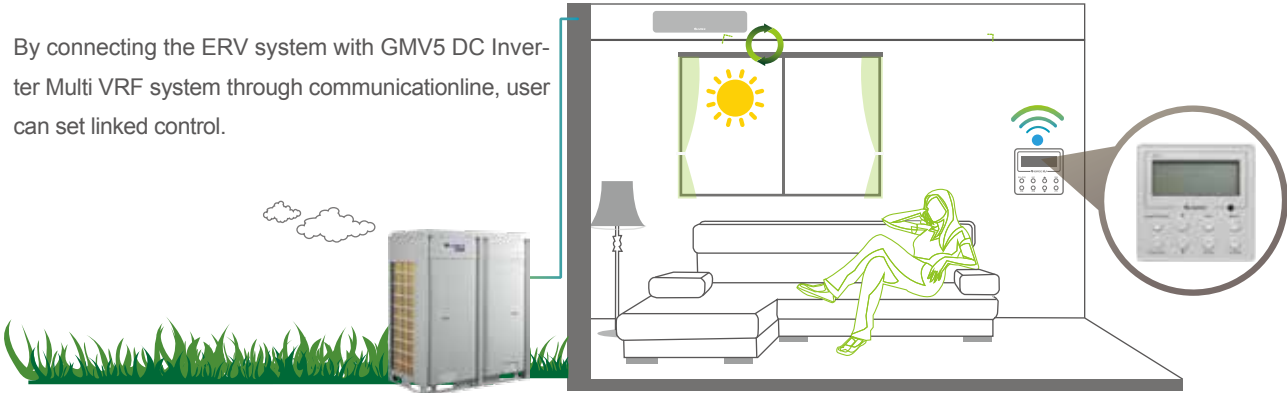
Manual Control

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



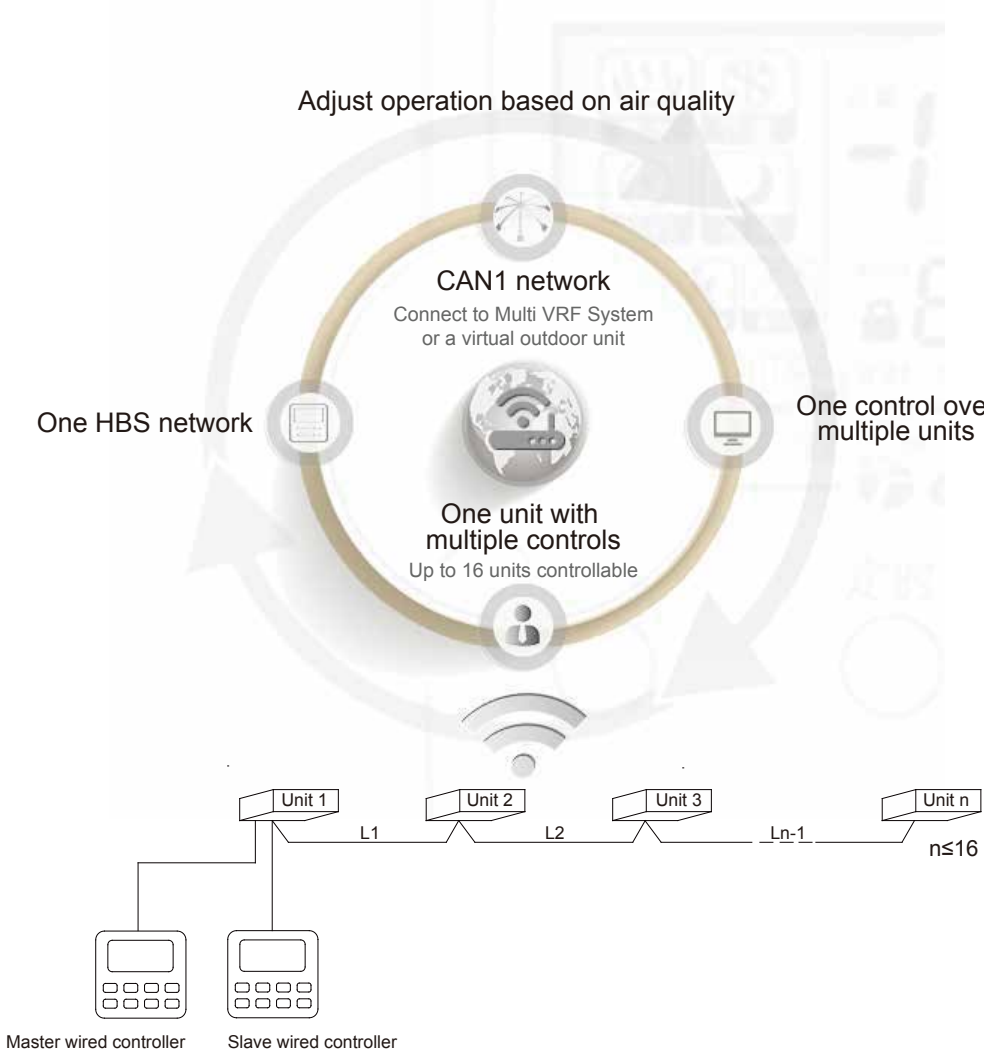
Linked Control

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



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

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



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	m³/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
	Package	mm	1468×873×285	1468×873×285	1528×973×305
Net weight/Gross weight	kg	50/58.5	50/58.5	60/70.5	71.5/82.5
Loading quantity	40'GP/40'HQ	unit	172/195	172/195	121/140
					117/131

Control System Lineup

Product series			ERV
Control system			
Wired controller	XK112		●
Smart zone controller	CE53-24F(C)		○

Note: ● means standard, ○ means optional.

ERV+DX COIL



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

Memory function

°C/°F switch

Child lock

Easier maintainability

Weekly timer

Centralized control

- » High-efficiency HR module: They are built with heat exchange chips for efficient energy recovery on the air discharge side. When they are in use, other air conditioning equipment will consume less power.
- » Constant air volume: Units adopt constant air volume control technology so that they can maintain constant air volume within a specific range of pipeline resistance.
- » 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.

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



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
				m³/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 III (Split Type)

Versati III (All In One)

Versati III (Monobloc Type)

Versati III (Monobloc Type,
Heating Only Series)

Versati II + (Split Type)

Versati II

Split Type Water Heater

Inverter Ultra

Integral Type Water Heater

Versati III (Split Type)

R32

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 C while the leaving water temperature range is 25~60 C .



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

°C / °F 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 C , applicable to various heating terminals.



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

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

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	220-240V ~ 50Hz	220-240V ~ 50Hz	220-240V ~ 50Hz	220-240V ~ 50Hz
Capacity*1	Cooling*3	kW	3.8	5.8	7	8.5
	Heating*4	kW	4	6	8	9.5
Power input*1	Cooling*3	kW	0.82	1.32	1.75	2.27
	Heating*4	kW	0.78	1.2	1.7	2.07
EER/COP*1		W/W	4.63/5.13	4.4/5.00	4.0/4.71	3.79/4.59
Capacity*2	Cooling*5	kW	3.15	4.09	5.3	6.5
	Heating*6	kW	4	6	8	9.5
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	1	1.6	1.6
Sanitary water temperature		°C	40~80	40~80	40~80	40~80
Sound pressure level	Cooling	dB(A)	52	52	55	55
	Heating	dB(A)	52	52	55	55
Connecting pipe	Gas	mm	12.7	12.7	12.7	12.7
	Liquid	mm	6.35	6.35	6.35	6.35
Dimensions (W×D×H)	Outline	mm	975×396×702	975×396×702	982×427×787	982×427×787
	Packaged	mm	1028×458×830	1028×458×830	1097×478×937	1097×478×937
Net weight/Gross weight		kg	55/65	55/65	82/92	82/92
Loading quantity	40'GP	unit	114	114	96	96
	40'HQ	unit	171	171	96	96

Notes:

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

» Cooling conditions.
Outdoor air temperature 35°C DB/- WB.
Entering water temperature 23°C.
Leaving water temperature 18°C.

» Heating conditions.
Outdoor air temperature 7°C DB/6°C WB.
Entering water temperature 30°C.
Leaving water temperature 35°C.
Standing piping length 5m.

3.For floor cooling.

4.For floor heating.

5.For fan coil unit.

6.For fan coil or radiator.
- 2.Capacities and power inputs are based on the following conditions:

» Cooling conditions.
Outdoor air temperature 35°C DB/- WB.
Entering water temperature 12°C.
Leaving water temperature 7°C.

» Heating conditions.
Outdoor air temperature 7°C DB/6°C WB.
Entering water temperature 40°C.
Leaving water temperature 45°C.
Standing piping length 5m.

Model			GRS-CQ4.0Pd/NhH-E(I)	GRS-CQ6.0Pd/NhH-E(I)	GRS-CQ8.0Pd/NhH-E(I)	GRS-CQ10Pd/NhH-E(I)
Power supply		V/Ph/Hz	220-240V ~ 50Hz	220-240V ~ 50Hz	220-240V ~ 50Hz	220-240V ~ 50Hz
Nominal input		W	100	100	100	100
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	-	inverter	inverter	inverter	inverter
	Nr. of speed	-	10	10	10	10
	Power input	W	75	75	75	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	220V-240V ~ 50Hz	220V-240V ~ 50Hz	220V-240V ~ 50Hz	220V-240V ~ 50Hz
Sound pressure level		dB(A)	29	29	29	29
Connecting pipe	Gas	mm	12.7	12.7	12.7	12.7
	Liquid	mm	6.35	6.35	6.35	6.35
Dimensions(W×D×H)	Outline	mm	860×460×318	860×460×318	860×460×318	860×460×318
	Packaged	mm	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
Loading quantity	40'GP	unit	240	240	240	240
	40'HQ	unit	240	240	240	240

1.Capacities 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.Capacities 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 (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



℃/°F 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(℃)	Environment dry bulb temperature(℃)
Cooling	7~25	10~48
Heating	25~60	-25~35
Water heating	40~80	-25~45

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

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	220-240V ~ 50Hz	220-240V ~ 50Hz	220-240V ~ 50Hz	220-240V ~ 50Hz
Capacity*1	Cooling*3	kW	3.8	5.8	7	8.5
	Heating*4	kW	4	6	8	9.5
Power input*1	Cooling*3	kW	0.82	1.32	1.75	2.27
	Heating*4	kW	0.78	1.2	1.7	2.07
EER/COP*1		W/W	4.63/5.13	4.4/5.00	4.0/4.71	3.79/4.59
Capacity*2	Cooling*5	kW	3.15	4.09	5.3	6.5
	Heating*6	kW	4	6	8	9.5
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	1	1.6	1.6
Sanitary water temperature		°C	40~80	40~80	40~80	40~80
Sound pressure level	Cooling	dB(A)	52	52	55	55
	Heating	dB(A)	52	52	55	55
Connecting pipe	Gas	inch(mm)	12.7	12.7	12.7	12.7
	Liquid	inch(mm)	6.35	6.35	6.35	6.35
Dimensions (W×D×H)	Outline	mm	975×396×702	975×396×702	982×427×787	982×427×787
	Packaged	mm	1028×458×830	1028×458×830	1097×478×937	1097×478×937
Net weight/Gross weight		kg	55/65	55/65	82/92	82/92
Loading quantity	40'GP	unit	114	114	96	96
	40'HQ	unit	171	171	96	96

Notes:

1.Capacities 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.

3.For floor cooling.

4.For floor heating.

5.For fan coil unit.

6.For fan coil or radiator.

2.Capacities 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.

Model			GRS-CQ4.0PdG/NhH-E(I)	GRS-CQ6.0PdG/NhH-E(I)	GRS-CQ8.0PdG/NhH-E(I)	GRS-CQ10PdG/NhH-E(I)
Power supply		V/Ph/Hz	220-240V ~ 50Hz	220-240V ~ 50Hz	220-240V ~ 50Hz	220-240V ~ 50Hz
Nominal input		W	100	100	100	100
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
Water tank volume		L	185	185	185	185
Electric heater of water tank		kW	3	3	3	3
Pump	Type	-	inverter	inverter	inverter	inverter
	Nr. of speed	-	10	10	10	10
	Power input	W	75	75	75	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	220V-240V ~ 50Hz	220V-240V ~ 50Hz	220V-240V ~ 50Hz	220V-240V ~ 50Hz
Sound pressure level		dB(A)	29	29	29	29
Connecting pipe	Gas	mm	12.7	12.7	12.7	12.7
	Liquid	mm	6.35	6.35	6.35	6.35
DHW pipe		inch	G1	G1	G1	G1
Dimensions(W×D×H)	Outline	mm	600×600×1750	600×600×1750	600×600×1750	600×600×1750
	Packaged	mm	803×698×2000	803×698×2000	803×698×2000	803×698×2000
Net weight/Gross weight		kg	209/225	209/225	209/225	209/225
Loading quantity	40' GP	unit	46	46	46	46
	40'HQ	unit	46	46	46	46

1.Capacities 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.Capacities 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)



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 ℃ .



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

℃ /°F 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(℃)	Environment dry bulb temperature(℃)
Cooling	7~25	10~48
Heating	25~60	-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}	Cooling ^{*3}	kW	3.8	5.8	6.8	8.8	11	12.5
	Heating ^{*4}	kW	4	6	7.5	10	12	14
Power input ^{*1}	Cooling ^{*3}	kW	0.82	1.32	1.58	1.96	2.56	3.05
	Heating ^{*4}	kW	0.78	1.2	1.63	2.17	2.64	3.22
EER/COP ^{*1}		W/W	4.63/5.1	4.7/5.0	4.3/4.6	4.5/4.6	4.3/4.55	4.1/4.35
Capacity ^{*2}	Cooling ^{*5}	kW	3	4	5	7.8	9.5	12
	Heating ^{*6}	kW	4	6	7.5	10	12	14
Power input ^{*2}	Cooling ^{*5}	kW	0.94	1.29	1.56	2.48	3.11	4.14
	Heating ^{*6}	kW	0.98	1.56	2	2.7	3.33	3.94
EER/COP ^{*2}		W/W	3.2/4.0	3.10/3.80	3.1/3.75	3.15/3.7	3.05/3.6	2.9/3.55
Refrigerant charge volume		kg	0.87	0.87	0.87	2.2	2.2	2.2
Sanitary water temperature		℃	40~80	40~80	40~80	40~80	40~80	40~80
Sound pressure level	Cooling	dB(A)	52	52	52	58	58	58
	Heating	dB(A)	54	54	54	61	61	61
Connecting pipe	Gas	inch(mm)	/	/	/	/	/	/
	Liquid	inch(mm)	/	/	/	/	/	/
Dimensions (W×D×H)	Outline	mm	1150×345×758	1150×345×758	1150×345×758	1200×460×878	1200×460×878	1200×460×878
	Packaged	mm	1255×485×890	1255×485×890	1255×485×890	1290×586×1010	1290×586×1010	1290×586×1010
Net weight/Gross weight		kg	92	92	92	151	151	151
Loading quantity	40'GP	unit	84	84	84	58	58	58
	40'HQ	unit	84	84	84	58	58	58

Model			GRS-CQ16Pd/NhG-K	GRS-CQ10Pd/NhG-M	GRS-CQ12Pd/NhG-M	GRS-CQ14Pd/NhG-M	GRS-CQ16Pd/NhG-M
Power supply		V/Ph/Hz	220-240V ~ 50Hz	380-415V 3N~ 50Hz	380-415V 3N~ 50Hz	380-415V 3N~ 50Hz	380-415V 3N~ 50Hz
Capacity ^{*1}	Cooling ^{*3}	kW	14.5	8.8	11	12.5	14.5
	Heating ^{*4}	kW	15.5	10	12	14	15.5
Power input ^{*1}	Cooling ^{*3}	kW	3.82	1.96	2.56	3.05	3.82
	Heating ^{*4}	kW	3.6	2.17	2.64	3.22	3.6
EER/COP ^{*1}		W/W	3.8/4.3	4.5/4.6	4.3/4.55	4.1/4.35	3.8/4.3
Capacity ^{*2}	Cooling ^{*5}	kW	13	7.8	9.5	12	13
	Heating ^{*6}	kW	15.5	10	12	14	15.5
Power input ^{*2}	Cooling ^{*5}	kW	4.73	2.48	3.11	4.14	4.73
	Heating ^{*6}	kW	4.56	2.7	3.33	3.94	4.56
EER/COP ^{*2}		W/W	2.75/3.4	3.15/3.7	3.05/3.6	2.9/3.55	2.75/3.4
Refrigerant charge volume		kg	2.2	2.2	2.2	2.2	2.2
Sanitary water temperature		℃	40~80	40~80	40~80	40~80	40~80
Sound pressure level	Cooling	dB(A)	58	58	58	58	58
	Heating	dB(A)	61	61	61	61	61
Connecting pipe	Gas	inch(mm)	/	/	/	/	/
	Liquid	inch(mm)	/	/	/	/	/
Dimensions (W×D×H)	Outline	mm	1200×460×878	1200×460×878	1200×460×878	1200×460×878	1200×460×878
	Packaged	mm	1290×586×1010	1290×586×1010	1290×586×1010	1290×586×1010	1290×586×1010
Net weight/Gross weight		kg	151	151	151	151	151
Loading quantity	40'GP	unit	58	58	58	58	58
	40'HQ	unit	58	58	58	58	58

Notes:
1.Capacities 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.
3.For floor cooling.
4.For floor heating.
5.For fan coil unit.
6.For fan coil or radiator.

2.Capacities 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, Heating Only Series)

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℃ .



4/6/8KW



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



℃ /°F 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(℃)	Environment dry bulb temperature(℃)
Heating	25~60	-25~35
Water heating	40~80	-25~45

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

ModelA21.I36			GRS-CQ4.0PdNHG1-K	GRS-CQ6.0PdNHG1-K	GRS-CQ8.0PdNHG1-K	GRS-CQ10PdNHG1-K	GRS-CQ12PdNHG1-K	GRS-CQ14PdNHG1-K
Power supply		V/Ph/Hz	230V~50Hz	230V~50Hz	230V~50Hz	230V~50Hz	230V~50Hz	230V~50Hz
Capacity*1	Heating*3	kW	4	6	7.5	10	12	14
Power input*1	Heating*3	kW	0.78	1.2	1.63	2.17	2.64	3.22
COP*1		W/W	5.1	5	4.6	4.6	4.55	4.35
Capacity*2	Heating*4	kW	4	6	7.5	10	12	14
Power input*2	Heating*4	kW	0.98	1.56	2	2.7	3.33	3.94
COP*2		W/W	4.1	3.85	3.75	3.7	3.6	3.55
Refrigerant charge volume		kg	0.87	0.87	0.87	2.2	2.2	2.2
Sanitary water temperature		℃	40~80	40~80	40~80	40~80	40~80	40~80
Sound pressure level	Heating	dB(A)	54	54	54	61	61	61
Dimensions (W×D×H)	Outline	mm	1150×345×758	1150×345×758	1150×345×758	1200×460×878	1200×460×878	1200×460×878
	Packaged	mm	1255×485×890	1255×485×890	1255×485×890	1290×586×1010	1290×586×1010	1290×586×1010
Net weight/Gross weight		kg	96/109	96/109	96/109	151/166	151/166	151/166
Loading quantity	40'GP	unit	84	84	84	58	58	58
	40'HQ	unit	84	84	84	58	58	58

ModelA21.I36			GRS-CQ16PdNHG1-K	GRS-CQ10PdNHG1-M	GRS-CQ12PdNHG1-M	GRS-CQ14PdNHG1-M	GRS-CQ16PdNHG1-M
Power supply		V/Ph/Hz	230V~50Hz	380-415V 3N~ 50Hz	380-415V 3N~ 50Hz	380-415V 3N~ 50Hz	380-415V 3N~ 50Hz
Capacity*1	Heating*3	kW	15.5	10	12	14	15.5
Power input*1	Heating*3	kW	3.6	2.17	2.64	3.22	3.6
COP*1		W/W	4.3	4.6	4.55	4.35	4.3
Capacity*2	Heating*4	kW	15.5	10	12	14	15.5
Power input*2	Heating*4	kW	4.56	2.7	3.33	3.94	4.56
COP*2		W/W	3.4	3.7	3.6	3.55	3.4
Refrigerant charge volume		kg	2.2	2.2	2.2	2.2	2.2
Sanitary water temperature		℃	40~80	40~80	40~80	40~80	40~80
Sound pressure level	Heating	dB(A)	61	61	61	61	61
Dimensions (W×D×H)	Outline	mm	1200×460×878	1200×460×878	1200×460×878	1200×460×878	1200×460×878
	Packaged	mm	1290×586×1010	1290×586×1010	1290×586×1010	1290×586×1010	1290×586×1010
Net weight/Gross weight		kg	151/166	151/166	151/166	151/166	151/166
Loading quantity	40'GP	unit	58	58	58	58	58
	40'HQ	unit	58	58	58	58	58

Versati II + (Split Type)

R410A

It is a kind of DC inverter multifunctional air to water heat pumps that could not only supply domestic hot water, but also realize cooling or heating for residential use.





Floor heating debugging



High efficiency



Quiet function



Self-diagnosis



Wide voltage range



Comprehensive protection



Compact design

- » Twin rotary DC inverter compressor creates comfortable living circumstance and saves energy.
- » The electronic expansion valve guarantees that the system made adjustments automatically according to the changes of the circumstance and water temperature.
- » Smart dual-temperature detection control technology.
- » The disinfection function at a high temperature up to 70℃ can prevent the growth of bacteria and ensure sanitary water, creating a wholesome life for users.
- » Isolation of water and electricity ensures safe operation.
- » Dual-coil design makes it convenient to join solar panel or boiler.
- » Five-mode operation: heating, cooling, water heating, heating and water heating, cooling and water heating.
- » The unit will periodically increase or decrease water temperature in debugging process, to improve floor adaptability for temperature change.



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

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

Outdoor Unit²

Model			GRS-CQ8.0Pd/NaD-K(O)	GRS-CQ10Pd/NaD-K(O)	GRS-CQ12Pd/NaD-M(O)	GRS-CQ14Pd/NaD-M(O)
Power supply		V/Ph/Hz	220-240V ~50Hz	220-240V ~50Hz	380-415V 3N~ 50/60Hz	380-415V 3N~ 50/60Hz
Capacity* ¹	Cooling	kW	8.2	9.7	13.5	14
	Heating	kW	8	9.2	12	14
Power input* ¹	Cooling	kW	1.86	2.46	3.46	3.68
	Heating	kW	1.85	2.19	2.67	3.33
EER/COP* ¹		W/W	4.41/4.32	3.94/4.20	3.90/4.49	3.80/4.20
Capacity* ²	Cooling	kW	5.5	6.9	9.6	10
	Heating	kW	7.7	9	12	12.8
Power input* ²	Cooling	kW	1.85	2.34	3.02	3.22
	Heating	kW	2.26	2.65	3.24	3.56
EER/COP* ²		W/W	2.97/3.41	2.95/3.40	3.18/3.70	3.11/3.60
Refrigerant charge volume		kg	3.5	3.5	5.3	5.3
Sanitary water temperature		℃	40~80	40~80	40~80	40~80
Sound pressure level	Cooling	dB(A)	53	53	57	57
	Heating	dB(A)	54	54	57	57
Connecting pipe	Gas	inch(mm)	15.9	15.9	15.9	15.9
	Liquid	inch(mm)	9.52	9.52	9.52	9.52
Dimensions (W×D×H)	Outline	mm	982×427×787	982×427×787	900×412×1345	900×412×1345
	Packaged	mm	1097×477×862	1097×477×862	998×458×1515	998×458×1515
Net weight/Gross weight		kg	85/87	85/87	126/136	126/136
Loading quantity	40'GP	set	96	96	50	50
	40'HQ	set	96	96	50	50

Notes:

- 1.Capacites and power inputs are based on the following conditions:
- » Cooling conditions.
- » Indoor water temperature 23℃/18℃.
- » Outdoor air temperature 35℃DB/24℃WB.
- » Heating conditions.
- » Indoor water temperature 30℃/35℃.
- » Outdoor air temperature 7℃DB/6℃WB.
- » Standing piping length 7.5m.
- 2.Capacites and power inputs are based on the following conditions:
- » Cooling conditions.
- » Indoor water temperature 12℃/7℃.
- » Outdoor air temperature 35℃DB/24℃WB.
- » Heating conditions.
- » Indoor water temperature 40℃/45℃.
- » Outdoor air temperature 7℃DB/6℃WB.
- » Standing piping length 7.5m.

Indoor Hydro Unit

Model		Indoor unit	GRS-CQ8.0Pd/NaD-K(I)	GRS-CQ10Pd/NaD-K(I)	GRS-CQ12Pd/NaD-M(I)	GRS-CQ14Pd/NaD-M(I)
Power supply		V/Ph/Hz	220-240V ~ 50Hz	220-240V ~ 50Hz	380-415V 3N~ 50Hz	380-415V 3N~ 50Hz
Nominal input		W	6140	6140	6140	6140
Leaving water temperature	Cooling*1	°C	7	7	7	7
	Cooling*2	°C	18	18	18	18
	Heating*3	°C	35	35	35	35
	Heating*4	°C	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	105	105	105	105
	Water flow limit	LPM	12	12	12	12
Electric heater	Operation	-	-	-	-	-
	Steps	-	2	2	1	1
	Capacity	kW	6	6	6	6
	Combination	kW	3+3	3+3	3+3	3+3
	Power input	Ph/V/Hz	230V ~ 50Hz	230V ~ 50Hz	400V 3N~ 50Hz	400V 3N~ 50Hz
	Sound pressure level	dB(A)	31	31	31	31
Connecting pipe	Gas	inch(mm)	15.9	15.9	15.9	15.9
	Liquid	inch(mm)	9.52	9.52	9.52	9.52
Dimensions (W×D×H)	Outline	mm	900×500×324	900×500×324	900×500×324	900×500×324
	Packaged	mm	1043×608×395	1043×608×395	1043×608×395	1043×608×395
Net weight/Gross weight		kg	56/65	56/65	58/67	58/67
Loading quantity	40'GP	unit	205	205	205	205
	40'HQ	unit	246	246	246	246

Note: *1 for floor cooling; *2 for fan coil cooling; *3 for floor heating; *4 for fan coil heating.

Water Tank

Model			SXTVD300LCJ2/A-K
Water tank volume		L	300
Power supply		V/Ph/Hz	230V~50Hz
Electric heater power		W	3000
Screw thread spec of pipe		Cool water inlet	inch(mm) Φ1/2"Female BSP(12.7)
		Hot water outlet	inch(mm) Φ1/2"Female BSP(12.7)
Dimension	Outline	Diameter×H	mm Φ620×1722
	Packaged	W×D×H	mm 743×743×1875
Net weight/Gross weight		kg	157.5/140
Loading quantity		40'GP/40'HQ	unit 63/63

Versati II



Versati II water heater can perform cooling, heating, water heating, cooling+water heating, and heating+water heating. It can be connected to radiator, floor or fan coil for heat radiation.



Auxiliary electric heater

Golden fin condenser

Quiet function

Intelligent defrosting

Energy saving function

High efficiency

Easier maintainability

Compact design

Low voltage startup

Item	Water side	Heat source/User side
	Leaving water temperature(℃)	Environment dry bulb temperature(℃)
Cooling	7~25	10~48
Heating	25~55	-20~35
Water heating	40~80(Water tank temperature)	-20~45

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

» This unit is very powerful, smart and user-friendly, featuring various functions including holiday mode, absence mode, quiet mode, quiet preset, clock timer, weekly timer, holiday exclusion, floor setting, environment dependency mode, etc. .

» Cooling performance satisfies EU ERP energy efficiency, with a rating up to A++. Motor and water pump elements conform to the requirements set out by the EU Eco Directive.

» It can perform cooling, heating, water heating, cooling+water heating, and heating+water heating, and can be connected to radiator, floor or fan coil for heat radiation.



Outdoor Unit

Model			GRS-CQ8.0Pd/NaE-K(O)	GRS-CQ10Pd/NaE-K(O)	GRS-CQ12Pd/NaE-K(O)	GRS-CQ14Pd/NaE-K(O)
Power supply		V/Ph/Hz	220-240V ~ 50Hz	220-240V ~ 50Hz	220-240V ~ 50Hz	220-240V ~ 50Hz
Capacity* ¹	Cooling	kW	7.8	8.2	12.5	13.5
	Heating	kW	8	10	12	14
Power input* ¹	Cooling	kW	2	2.1	3	3.4
	Heating	kW	1.8	2.3	2.8	3.3
EER/COP* ¹		W/W	4.0/4.5	3.9/4.4	4.2/4.3	4.0/4.2
Capacity* ²	Cooling	kW	6.3	7.2	8.5	9
	Heating	kW	7.6	9.5	11.5	12.5
Power input* ²	Cooling	kW	2.3	2.8	2.8	3
	Heating	kW	2.2	2.9	3.4	3.8
EER/COP* ²		W/W	2.7/3.4	2.6/3.3	3.1/3.4	3/3.3
Refrigerant charge volume		kg	2.3	2.3	3.6	3.6
Sanitary water temperature		°C	40~80	40~80	40~80	40~80
Sound pressure level	Cooling	dB(A)	56	56	58	58
	Heating	dB(A)	56	56	58	58
Connecting pipe	Gas	inch(mm)	Φ15.9	Φ15.9	Φ15.9	Φ15.9
	Liquid	inch(mm)	Φ9.52	Φ9.52	Φ9.52	Φ9.52
Dimensions (W×D×H)	Outline	mm	982×427×787	982×427×787	900×412×1345	900×412×1345
	Packaged	mm	1097×478×967	1097×478×967	998×458×1515	998×458×1515
Net weight/Gross weight		kg	80/89	80/89	107/117	107/117
Loading quantity	40'GP	unit	96	96	50	50
	40'HQ	unit	96	96	50	50

Model			GRS-CQ16Pd/NaE-K(O)	GRS-CQ12Pd/NaE-M(O)	GRS-CQ14Pd/NaE-M(O)	GRS-CQ16Pd/NaE-M(O)
Power supply		V/Ph/Hz	220-240V ~ 50Hz	380-415V 3N~ 50Hz	380-415V 3N~ 50Hz	380-415V 3N~ 50Hz
Capacity* ¹	Cooling	kW	14.5	13.5	14.5	15
	Heating	kW	15.5	12	14	15.5
Power input* ¹	Cooling	kW	3.8	3.55	4.03	3.82
	Heating	kW	3.75	2.86	3.41	4.23
EER/COP* ¹		W/W	3.82/4.1	3.8/4.2	3.6/4.1	3.55/4.05
Capacity* ²	Cooling	kW	9.7	10	10.5	11
	Heating	kW	14.5	11.5	13	14
Power input* ²	Cooling	kW	3.3	3.33	3.62	3.86
	Heating	kW	4.5	3.48	3.94	4.38
EER/COP* ²		W/W	2.9/3.2	3.0/3.3	2.9/3.3	2.85/3.2
Refrigerant charge volume		kg	3.6	3.6	3.6	3.6
Sanitary water temperature		°C	40~80	40~80	40~80	40~80
Sound pressure level	Cooling	dB(A)	58	57	57	57
	Heating	dB(A)	58	57	57	57
Connecting pipe	Gas	inch(mm)	Φ15.9	Φ15.9	Φ15.9	Φ15.9
	Liquid	inch(mm)	Φ9.52	Φ9.52	Φ9.52	Φ9.52
Dimensions (W×D×H)	Outline	mm	900×412×1345	900×412×1345	900×412×1345	900×412×1345
	Packaged	mm	998×458×1515	998×458×1515	998×458×1515	998×458×1515
Net weight/Gross weight		kg	107/117	114/124	114/124	114/124
Loading quantity	40'GP	unit	50	50	50	50
	40'HQ	unit	50	50	50	50

Notes:

1.This product model is under development.

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

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

- » Cooling conditions.
- » Indoor water temperature 23℃/18℃.
- » Outdoor air temperature 35℃DB/24℃WB.
- » Heating conditions.
- » Indoor water temperature 30℃/35℃.
- » Outdoor air temperature 7℃DB/6℃WB.
- » Standing piping length 5m.

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

- » Cooling conditions.
- » Indoor water temperature 12℃/7℃.
- » Outdoor air temperature 35℃DB/24℃WB.
- » Heating conditions.
- » Indoor water temperature 40℃/45℃.
- » Outdoor air temperature 7℃DB/6℃WB.
- » Standing piping length 5m.

Indoor Hydro Unit

Model		Indoor unit	GRS-CQ8.0Pd/NaE-K(I)	GRS-CQ10Pd/NaE-K(I)	GRS-CQ12Pd/NaE-K(I)
Power supply		V/Ph/Hz	220-240V ~ 50Hz	220-240V ~ 50Hz	220-240V ~ 50Hz
Nominal input		W	6100	6100	6100
Leaving water temperature	Cooling ¹	°C	18	18	18
	Cooling ²	°C	7	7	7
	Heating ³	°C	35	35	35
	Heating ⁴	°C	45	45	45
Pump	Type	-	Water-cooled		
	Nr. of speed	-	Variable-speed		
	Power input	W	4-75	4-75	4-75
	Water flow limit	LPM	12		
	Operation	-	Automatic		
Electric heater	Steps	-	2	2	2
	Capacity	kW	6	6	6
	Combination	kW	3+3		
	Power input	V/Ph/Hz	220-240~50	220-240~50	220-240~50
Sound pressure level		dB(A)	31	31	31
Connecting pipe	Gas	inch(mm)	Φ15.9	Φ15.9	Φ15.9
	Liquid	inch(mm)	Φ9.52	Φ9.52	Φ9.52
Dimensions (W×D×H)	Outline	mm	900×500×324	900×500×324	900×500×324
	Packaged	mm	1043×608×395	1043×608×395	1043×608×395
Net weight/Gross weight		kg	56/65	56/65	57/66
Loading quantity	40'GP	unit	205	205	205
	40'HQ	unit	246	246	246

Model		Indoor unit	GRS-CQ14Pd/NaE-K(I)	GRS-CQ16Pd/NaE-K(I)	GRS-CQ12Pd/NaE-M(I)	GRS-CQ14Pd/NaE-M(I)	GRS-CQ16Pd/NaE-M(I)
Power supply		V/Ph/Hz	220-240V ~ 50Hz	220-240V ~ 50Hz	380-415V 3N~ 50Hz	380-415V 3N~ 50Hz	380-415V 3N~ 50Hz
Nominal input		W	6100	6100	6100	6100	6100
Leaving water temperature	Cooling ¹	°C	18	18	18	18	18
	Cooling ²	°C	7	7	7	7	7
	Heating ³	°C	35	35	35	35	35
	Heating ⁴	°C	45	45	45	45	45
Pump	Type	-	Water-cooled				
	Nr. of speed	-	Variable-speed				
	Power input	W	4-75	4-75	4-75	4-75	4-75
	Water flow limit	LPM	12				
	Operation	-	Yes	Yes	Yes	Yes	Yes
Electric heater	Steps	-	2	2	1	1	1
	Capacity	kW	6	6	6	6	6
	Combination	kW	3+3	3+3	6	6	6
	Power input	V/Ph/Hz	220-240V ~ 50Hz	220-240V ~ 50Hz	380-415V 3N~50HZ	380-415V 3N~50HZ	380-415V 3N~50HZ
Sound pressure level		dB(A)	31	31	31	31	31
Connecting pipe	Gas	inch(mm)	Φ15.9	Φ15.9	Φ15.9	Φ15.9	Φ15.9
	Liquid	inch(mm)	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52
Dimensions (W×D×H)	Outline	mm	900×500×324	900×500×324	900×500×324	900×500×324	900×500×324
	Packaged	mm	1043 ×608 ×395	1043 ×608 ×395	1043 ×608 ×395	1043 ×608 ×395	1043 ×608 ×395
Net weight/Gross weight		kg	57/66	57/66	58/67	58/67	58/67
Loading quantity	40'GP	unit	205	205	205	205	205
	40'HQ	unit	246	246	246	246	246

Note: *1 for floor cooling; *2 for fan coil cooling; *3 for floor heating; *4 for fan coil heating.

Water Tank

Model				SXTVD300LCJ2/A-K
Water tank volume		L	300	
Power supply		V/Ph/Hz	230V~50Hz	
Electric heater power		W	3000	
Screw thread spec of pipe		Cool water inlet	inch(mm)	Φ1/2"Female BSP(12.7)
		Hot water outlet	inch(mm)	Φ1/2"Female BSP(12.7)
Dimension	Outline	Diameter×H	mm	Φ620×1722
	Packaged	W×D×H	mm	743×743×1875
Net weight/Gross weight		kg	157.5/140	
Loading quantity		40'GP/40'HQ	unit	63/63

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

°C / °F 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 °C , 15-55°C)	h	5.40
Maximum input power	W	2000+1500W (Electric heater)
Circuit breaker	A	16
Water temperature setting	°C	35°C~55°C
Power supply	V/Ph/Hz	220-240V~ 50Hz
Protection of ingress ion	-	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	°C	-25~45°C

- Notes:
1. Value obtained with the following conditions: Outdoor temperature: 20°C DB/15°C WB; Water tank temperature (start/end): 15°C /55°C.
2. Value obtained with an air temperature of 7°C and a water inlet at 10 °C , as per EN16147-2017, (EU) No 814/2013.
3. Value obtained as per EN 12102-2008.
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.

Inverter Ultra

It's a kind of integrated DC inverter unit that comprises cooling, heating and Hot water functions, and up to 4.6 energy efficiency. It adopts R32 refrigerant and two-stage compressor. For heating, ambient temperature range is -30~35℃ while the leaving water temperature range is 25~60℃.





Inner groove copper



Quiet function



Weekly timer



Low temperature heating



Clock display



Comprehensive protection



24 hour timer



Child lock



Wide operation range



Wide voltage range



Self-diagnosis



Low voltage startup



Memory function



Intelligent defrosting

- » 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	Heat source/User side	Water side
	Environment dry bulb temperature(℃)	Water tank temperature/ Leaving water temperature(℃)
Hot water	-30 ~ 45	30 ~ 60
Heating	-30 ~ 35	25 ~ 60
Cooling	-10 ~ 48	5 ~ 25

Model		GRS-Cm18PdRe/NhA-M	
Power supply		V/Ph/Hz	380-415V 3N ~ 50Hz
Capacity ¹	Cooling ³	kW	16.1
	Heating ⁴	kW	18.1
Power input ¹	Cooling ³	kW	3.5
	Heating ⁴	kW	3.93
EER/COP ¹		W/W	4.6/4.6
Capacity ²	Cooling ⁵	kW	14.5
	Heating ⁶	kW	18
Power input ²	Cooling ⁵	kW	4.14
	Heating ⁶	kW	5
EER/COP ²		W/W	3.5/3.7
Refrigerant charge volume		kg	3.5
Sanitary water temperature		℃	25 ~ 60
Sound power level	Cooling	dB(A)	75
	Heating	dB(A)	75
Connecting pipe	Entering water pipe	inch(mm)	G1
	Leaving water pipe	inch(mm)	G1
Dimensions (W×D×H)	Outline	mm	1280×410×1475
	Packaged	mm	1409×501×1620
Net weight/Gross weight		kg	190/205
Loading quantity	40'GP	unit	33
	40'HQ	unit	33

Notes:
1.Capacities 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℃.
2.Capacities 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℃.
3.For floor cooling.
4.For floor heating.
5.For fan coil unit.
6.For fan coil or radiator.

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



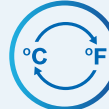
Intelligent defrosting



Energy saving



Wide operation range



°C / °F 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 °C , 15-55°C)	h	6.50	9.20
Running ambient temperature	°C	0 ~ 45	0 ~ 45
Water temperature setting	°C	35 ~ 70	35 ~ 70
Air flow rate	m³/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 pipeline	Water inlet pipe	inch	0.59
	Water outlet pipe	inch	0.59
	Drainage pipe	inch	/
Dimensions(W×D×H)	Outline	mm	621×561×1760
	Packaged	mm	731×717×1845
Net wight/Gross weight	kg	92/112	102.5/122.5
Loading quantity	40'GP/40'HQ	unit	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.

AIR- COOLED CHILLER

Inverter Mini Chiller
(Heat Pump, R410A Series)

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

Inverter Modular Air-cooled Chiller
(Heat Pump)

Inverter Mini Chiller

(Heat Pump, R410 Series)



Inverter mini chiller, is a kind of small-size air-cooled chiller that can be connected to all sorts of fan coil units to realize cooling and heating. It can be used in the temperature range of -20~48℃.





Wired controller Z263Q



Inner groove copper



Self-diagnosis



Comprehensive protection



Memory function

- » Compressor inverter control regulates water temperature precisely.
- » Integral installation is convenient and cost-saving.
- » Precise system pressure control improves the anti-freezing function of the system.
- » Two-stage compression technology is adopted to greatly improve the system's performance.



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	7~25	2~10	35	24	10~48
Heating	40	45	25~60	2~10	7	6	-20~35

Model	Heat pump		HLR8Pd/Na-K	HLR10Pd/Na-K	HLR12Pd/Na-M	HLR14Pd/Na-M
Capacity	Cooling	kW	6.20	7.50	9.50	11.00
	Heating	kW	8	10	12	14
EER/COP		W/W	3.1/3.5	3.1/3.4	3.2/3.7	3.1/3.4
Power suppl		V/Ph/Hz	220-240V ~ 50Hz		380-415V 3N~ 50Hz	
Power input	Cooling	kW	2	2.4	2.97	3.55
	Heating	kW	2.25	2.9	3.24	4.12
Compressor	Type	-	Rotary	Rotary	Rotary	Rotary
	Quantity	-	1	1	1	1
Refrigerant charge volume		kg	3.5	3.5	4.0	4.0
Water flow volume		l/s	1.25	1.25	1.25	1.25
		GPM	16.515	16.515	16.515	16.515
Build-in chilled water pump	Pump power input	kW	0.14	0.14	0.14	0.14
	Delivery lift	m	11	11	11	11
Build-in expansion vessel volume		L	10	10	10	10
Chilled water outlet/inlet screw thread spec		inch	1	1	1	1
Sound pressure level		dB(A)	53	55	54	54
Dimension(W×D×H)	Outling	mm	1390×412×890	1390×412×890	1350×381×1438	1350×381×1438
	Package	mm	1463×438×1035	1463×438×1035	1443×433×1575	1443×433×1575
Net weight/Gross weight		kg	140/155	140/155	194/209	194/209
Loading quantity	40'GP/40'HQ	unit	80/80	80/80	43/43	43/43

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	Heat source/User side
	Leaving water temperature(℃)	Environment dry bulb temperature(℃)
Cooling	5~20	-15~52
Water heating	35~50	-20~40

Model	Heat pump		LSQWRF35VM/NhA-M	LSQWRF60VM/NhA-M
Capacity	Cooling/Heating	kW	32/35	60/65
		RT	9.10/9.95	17.06/18.48
Capacity steps		%	0~100	0~100
EER/COP		W/W	2.74/3.3	2.88/3.27
Power supply		V/Ph/Hz	380-415V 3N~ 50Hz	380-415V 3N~ 50Hz
Power input	Cooling	kW	11.7	20.8
	Heating	kW	10.6	19.9
Compressor	Type	-	InverterRotary	InverterRotary
	Starting mode	-	Inverter starting	Inverter starting
	Quantity	-	1	2
Water side heat exchanger	Type	-	Dry Expansion Evaporator	Dry Expansion Evaporator
	Water flow volume	l/s	1.53	2.87
		GPM	24	46
	Pressure drop	kPa	80	55
		ft.WG	26.24	18.04
	Connection pipe	-	G1 1/2 external thread connection	G2 external thread connection
Air side heat exchanger	Type	-	Aluminum Fin-copper Tube	Aluminum Fin-copper Tube
	Fan type and quantity	-	Axial-flow/2	Axial-flow/2
	Total fan air flow	l/s	2×0.175×10 ⁴	2×0.333×10 ⁴
		CFM	2×0.371×10 ⁴	2×0.707×10 ⁴
	Total fan motor power	kW	0.75	0.75
Sound pressure level	dB(A)	62	68	
Dimension	Outline(W×D×H)	mm	1340×845×1605	2200×965×1675
	Package(W×D×H)	mm	1420×920×1775	2267×1030×1867
Net weight/Gross weight		kg	405/422	686/722
Loading quantity	40'GP/40'HQ	unit	16/16	11/11

Inverter Modular Air-cooled Chiller (Heat Pump)



A Series Inverter Modular Air-cooled Chiller adopts all DC inverter and has wide operational range, compact design and can be modularized.

Quiet function

Self-diagnosis

High efficiency

Compact design

Wide voltage range

Comprehensive protection

Golden fin condenser

Inner groove copper

Low voltage startup

Easier maintainability

Memory function

All DC inverter technology

Multi fan speed

Modular operating

Long-distance monitoring

Intelligent defrosting

Weekly timer

Clock display

Wide operation range

- » High-efficiency and energy-saving, with all DC inverter compressor and fan;
- » Quiet and wide operational range;
- » Easy installation, modularized combination, intelligent control;
- » With water pump switch function for prolonging service life of water pump;
- » Long-distance one-key ON/OFF control.



Note: 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 (outdoor temperature)	
	Nominal operating condition		Operating range		Nominal operating condition	Operating range
	Inlet(C)	Outlet(C)	Outlet(C)	I/O difference(C)	DB(C)	DB(C)
Cooling	12	7	5~20	2.5~6	35	-15~52
Heating	40	45	35~50	2.5~6	7	-20~40

Model	Heat pump		LSQWRF35VM/NaA-M	LSQWRF60VM/NaA-M	LSQWRF65VM/NaA-M
Capacity	Cooling/Heating	kW	32/36	60/65	65/70
		RT	9.1/10.24	17.06/18.48	18.48/19.91
Capacity steps		%	0~100	0~100	0~100
EER/COP		W/W	2.58/3.33	2.74/3.22	2.62/3.20
Power supply		V/Ph/Hz	380-415V 3N~ 50Hz	380-415V 3N~ 50Hz	380-415V 3N~ 50Hz
Power input	Cooling	kW	12.4	21.90	24.80
	Heating	kW	10.8	20.20	21.90
Compressor	Type	-	Inverter rotary	Inverter rotary	Inverter rotary
	Starting mode	-	Inverter starting	Inverter starting	Inverter starting
	Quantity	-	1	2	2
Water side heat exchanger	Type	-	Dry expansion evaporator	Dry expansion evaporator	Dry expansion evaporator
	Water flow volume	l/s	1.53	2.87	3.11
		GPM	24	46	49
	Pressure drop	kPa	75	55	60
		ft.WG	24.6	18.04	19.68
	Connection pipe	-	G1 1/2 external thread connection	G2 external thread connection	G2 external thread connection
Air side heat exchanger	Type	-	Aluminum fin-copper tube	Aluminum fin-copper tube	Aluminum fin-copper tube
	Fan type and quantity	-	Axial-flow/2	Axial-flow/2	Axial-flow/2
	Total fan air flow	l/s	2×0.175×10 ⁴	2×0.333×10 ⁴	2×0.333×10 ⁴
		CFM	2×0.371×10 ⁴	2×0.707×10 ⁴	2×0.707×10 ⁴
	Total fan motor power	kW	0.75	0.75	0.75
Sound pressure level		dB(A)	62	68	68
Dimension	Outline(W×D×H)	mm	1340×845×1605	2200×965×1675	2200×965×1675
	Package(W×D×H)	mm	1420×920×1775	2267×1030×1867	2267×1030×1867
Net weight/Gross weight		kg	400/412	689/725	689/725
Loading quantity	40'GP/40'HQ	unit	16/16	11/11	11/11

SCREW CHILLER

High-efficiency Modular Air
-cooled Screw Chiller

Permanent Magnetic Synchronous
Inverter 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


Comprehensive protection


Self-diagnosis


Memory function


24 hour timer


Long-distance monitoring


High efficiency


Intelligent defrosting


Modular structure

- » Thanks to V type fin structure, 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.
- » 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		LSBLGF320MH /NbA-M*	LSBLGF420MH /NbA-M*	LSBLGF520MH /NbA-M*	LSBLGF580MH /NbA-M*	LSBLGF650MH /NbA-M*	LSBLGF750MH /NbA-M*
Capacity	Cooling	kW	320	420	520	580	650	750
		TR	91.0	119.4	147.9	164.9	184.8	213.3
Capacity steps		%	25%,50%~100%	25%,50%~100%	25%,50%~100%	25%,50%~100%	12.5%,25%~100%	12.5%,25%~100%
EER		W/W	3.20	3.23	3.21	3.22	3.25	3.26
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	130	162	180	200	230
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	2	2
Water side heat exchanger	Type	-	Flooded evaporator	Flooded evaporator	Flooded evaporator	Flooded evaporator	Flooded evaporator	Flooded evaporator
	Water flow volume	m³/h	55.0	72.2	89.4	99.8	111.8	129.0
		GPM	243	319	394	440	493	569
	Pressure drop	kPa	≤35	≤45	≤45	≤45	≤55	≤55
		ft.WG	≤11.7	≤15.1	≤15.1	≤15.1	≤18.4	≤18.4
Connection pipe		-	DN100	DN125	DN125	DN125	DN150	DN150
Air side heat exchanger	Type	-	Aluminum fin-copper tube					
	Total fan air flow	m³/h	20000×6	20000×8	20000×10	20000×10	20000×12	20000×14
		CFM	11772×6	11772×8	11772×10	11772×10	11772×12	11772×14
	Total fan motor power	kW	1.5×6	1.5×8	1.5×10	1.5×10	1.5×12	1.5×14
Dimension	Outline(W×D×H)	mm	3670×2250×2550	4890×2250×2550	6110×2250×2550	6110×2250×2550	7340×2250×2550	8560×2250×2550
	Package(W×D×H)	mm	3750×2330×2550	4970×2330×2550	6190×2330×2550	6190×2330×2550	7420×2330×2550	8640×2330×2550
Net/Gross/ Operting weight	Cooling only	kg	3980/4020/4060	4990/5030/5090	5930/5970/6049	6100/6140/6222	7440/7480/7589	8350/8390/8517
Loading quantity	40'GP/40'HQ	unit	0/2	0/2	0/1	0/1	0/1	0/1

Note: *This product is under development. The parameters are estimated, please refer to the value on the nameplate.

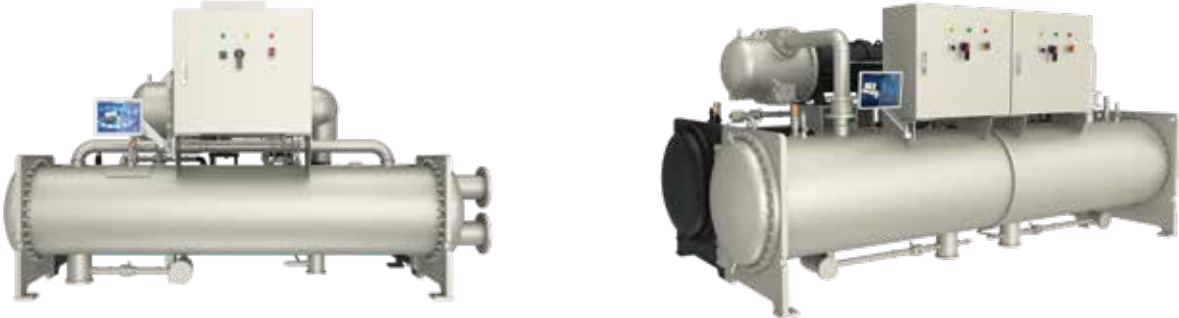
Model	Cooling only		LSBLGF860MH /NbA-M*	LSBLGF950MH /NbA-M*	LSBLGF1050MH /NbA-M*	LSBLGF1160MH /NbA-M*	LSBLGF1320MH /NbA-M*	LSBLGF1520MH /NbA-M*
Capacity	Cooling	kW	860	950	1050	1160	1320	1520
		TR	244.5	270.1	298.6	329.9	375.4	432.2
Capacity steps		%	12.5%,25%~100%	12.5%,25%~100%	12.5%,25%~100%	8.3%,16.7%~100%	6.25%,12.5%~100%	6.25%,12.5%~100%
EER		W/W	3.31	3.39	3.28	3.31	3.34	3.38
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	260	280	320	350	395	450
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	3	4	4
Water side heat exchanger	Type	-	Flooded Evaporator	Flooded Evaporator	Flooded Evaporator	Flooded Evaporator	Flooded Evaporator	Flooded Evaporator
	Water flow volume	m³/h	147.9	163.4	180.6	199.5	227.0	261.4
		GPM	652	720	796	880	1001	1153
	Pressure drop	kPa	≤65	≤60	≤70	≤55	≤60	≤60
		ft.WG	≤21.7	≤20.1	≤23.4	≤18.4	≤20.1	≤20.1
Connection pipe	-	DN150	DN150	DN150	DN150+DN125	2×DN150	2×DN150	
Air side heat exchanger	Type	-	Aluminum fin-copper tube					
	Total fan air flow	m³/h	20000×16	20000×18	21500×18	20000×22	20000×24	20000×28
		CFM	11772×16	11772×18	12654×18	11772×22	11772×24	11772×28
	Total fan motor power	kW	1.5×16	1.5×18	1.8×18	1.5×22	1.5×24	1.5×28
Dimension	Outline(W×D×H)	mm	9780×2250×2550	11000×2250×2550	11000×2250×2550	13450×2250×2550	14670×2250×2550	17120×2250×2550
	Package(W×D×H)	mm	9860×2330×2550	11080×2330×2550	11080×2330×2550	13530×2330×2550	14750×2330×2550	17200×2330×2550
Net/Gross/ Operting weight	Cooling only	kg	9130/9170/9313	10280/10320/10486	10510/10590/10720	13370/13450/13637	14880/14960/15178	16950/17030/17289
Loading quantity	40'GP/40'HQ	unit	0/1	0/1	0/1	0/0	0/0	0/0

Note: *This product is under development. The parameters are estimated, please refer to the value on the nameplate.

Permanent Magnetic Synchronous Inverter Screw Chiller

LHVE Series

Gree LHVE Series Permanent Magnetic Synchronous Inverter Screw Chiller (R134a) is specially designed to improve efficiency and reduce operation cost. Adopting the advanced semi-closed permanent magnetic synchronous inverter screw compressor, the latest efficient falling film heat exchanger and the eco-friendly refrigerant R134a, the product is energy-saving with high reliability, ensuring long-term stable operation, which is energy-efficient. Cooling capacity range under nominal condition is 120 ~ 600RT. It is widely applied to all kinds of office buildings, hospitals, schools and malls, besides, it can be adopted in cooling occasions of technological process.





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 20%-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 en hanced about 8.4%;
- » Under some load conditions, lower the operation power of compressor, which can be up to 60%.
- » The GRZ-type curve has decreased the leaked triangle area of 50%, reduced the leakage capacity of refrigerant and improved compressor performance;
- » The GRZ-type curve improves the stiffness of female rotor and decreased about 28.3% of the deformation;
- » 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;
- » 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 3%, in some other loads, it has enhanced 5% ~ 7%.
- » The control circuit adopts 24V full DC electronic control component, which effectively reduces electromagnetic nterference, safe and reliable;
- » Meet the wide voltage input between 328-528V, 50/60Hz is compatible.



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	2.5~8	18~33	3.5~8

Model		LHVE432GE8GE8/Nb-M	LHVE432GE7GE7/Nb-M	LHVE432GE6GE6/Nb-M	LHVE532GE5GE5/Nb-M	LHVE532GE4GE4/Nb-M
Cooling capacity	kW	348.6	421.4	470.7	522.5	574.7
	RT	99.1	119.9	133.9	148.6	163.5
Capacity ajustment range	%	10%-100%				
EER	W/W	5.94	5.93	5.88	5.88	5.88
IPLV	W/W	9.93	10.08	10.10	9.96	10.04
Power supply	V/Ph/Hz	380V 3N~ 50/60Hz;400-415V 3N~ 50/60Hz				
Power input	kW	58.6	71.0	80.0	88.9	97.7
Comperssor	Type	Semi-closed permanent magnetic synchronous inverter screw compressor				
	Starting mode	Inverter startup				
	Quantity	-	1	1	1	1
Refrigerant charge volume	kg	140	140	140	180	180
Refrigeration oil	Type	CPI-Solest-170				
	Charge volume	L	20	20	23	23
Evaporator	Type	Mixed falling film evaporator				
	Fouling factor	m ² ·°C/kW	0.0176	0.0176	0.0176	0.0176
	Water flow rate	m ³ /h	54	65	73	81
		GPM	238	286	321	357
	Pressure drop	kPa	38.3	38.4	39.2	40.0
		ft.H2O	12.6	12.6	12.9	13.1
Condenser	Connection pipe	mm	DN125	DN125	DN125	DN125
	Type	Horizontal shell and tube condenser				
	Fouling factor	m ² ·°C/kW	0.044	0.044	0.044	0.044
	Water flow volume	m ³ /h	68	82	92	102
		GPM	299	361	405	449
	Pressure drop	kPa	45.6	45.6	45.7	44.8
Sound pressure level(Max.)		dB(A)	84.3	84.5	85.2	84.6
						84.9
Dimension	Outline(W×D×H)	mm	3320×1560×1980	3320×1560×1980	3320×1560×1980	3320×1570×1980
	Package(W×D×H)	mm	3400×1600×2100	3400×1600×2100	3400×1600×2100	3400×1650×2100
Net/Gross/Operating weight	kg		3500/3650/3710	3550/3700/3770	3600/3750/3820	3680/3830/3900
Loading quantity	40'GP/40'HQ	unit	1	1	1	1

Model		LHVE832HE3JE3/Nb-M	LHVE832HE2JE2/Nb-M	LHVE532LJ4LJ4-2/Nb-M	LHVE532LJ3LJ3-2/Nb-M	LHVE532LJ2LJ2-2/Nb-M
Cooling capacity	kW	931.2	991.6	1045.0	1149.0	1271.0
	RT	264.8	282.0	297.2	326.8	361.5
Capacity ajustment range	%	10%-100%				
EER	W/W	5.63	5.62	6.21	6.17	6.11
IPLV	W/W	9.70	9.71	10.58	10.61	10.61
Power supply	V/Ph/Hz	380V 3N~ 50/60Hz;400-415V 3N~ 50/60Hz				
Power input	kW	165.4	176.5	168.3	186.2	207.9
Comperssor	Type	-	Semi-closed permanent magnetic synchronous inverter screw compressor			
	Starting mode	-	nverter startup			
	Quantity	-	1	1	2	2
Refrigerant charge volume	kg	250	280	360	360	400
Refrigeration oil	Type	-	CPI-Solest-170			
	Charge volume	L	28	28	46	46
Evaporator	Type	-	Mixed falling film evaporator			
	Fouling factor	m ² ·°C/kW	0.0176	0.0176	0.0176	0.0176
	Water flow rate	m³/h	144	154	162	197
		GPM	634	678	713	867
	Pressure drop	kPa	40.0	34.3	37.9	43.6
		ft.H2O	13.1	11.3	12.4	14.3
Condenser	Connection pipe	mm	DN150	DN150	DN200	DN200
	Type	-	Horizontal shell and tube condenser			
	Fouling factor	m ² ·°C/kW	0.044	0.044	0.044	0.044
		m³/h	182	194	222	246
	Water flow volume	GPM	801	854	889	997
		kPa	42.8	43.7	46.3	47.2
Sound pressure level(Max.)	dB(A)	85.3	85.6	86.6	86.5	86.8
Dimension	Outline(W×D×H)	mm	3400×1860×2040	3400×1860×2040	4600×1920×2090	4600×1920×2090
	Package(W×D×H)	mm	3450×1900×2150	3450×1900×2150	4650×1950×2300	4650×1950×2300
Net/Gross/Operating weight	kg	5100/5300/5400	5150/5350/5460	7850/8100/8320	7900/8150/8370	7950/8200/8430
Loading quantity	40'GP/40'HQ	unit	1	1	1	1

Model		LHVE732MJ8MJ8-2/Nb-M	LHVE732MJ6MJ6-2/Nb-M	LHVE732MJ5MJ5-2/Nb-M	LHVE832MJ7MJ7-2/Nb-M	LHVE832MJ3MJ3-2/Nb-M	LHVE832MJ2MJ2-2/Nb-M
Cooling capacity	kW	1393.0	1498.0	1602.0	1742.0	1846.0	1951.0
	RT	396.2	426.1	455.6	495.4	525.0	554.9
Capacity ajustment range	%	5%-100%					
EER	W/W	6.19	6.15	6.12	5.97	5.97	5.95
IPLV	W/W	10.63	10.64	10.64	10.28	10.32	10.32
Power supply	V/Ph/Hz	380V 3N~ 50/60Hz;400-415V 3N~ 50/60Hz					
Power input	kW	224.9	243.4	261.6	292.0	309.0	328.1
Comperssor	Type	-	Semi-closed permanent magnetic synchronous inverter screw compressor				
	Starting mode	-	Inverter startup				
	Quantity	-	2	2	2	2	2
Refrigerant charge volume	kg	440	440	500	500	500	580
Refrigeration oil	Type	-	CPI-Solest-170				
	Charge volume	L	46	46	46	56	56
Evaporator	Type	-	Mixed falling film evaporator				
	Fouling factor	m ² ·°C/kW	0.0176	0.0176	0.0176	0.0176	0.0176
		m³/h	216	232	248	270	302
	Water flow rate	GPM	951	1021	1092	1189	1330
		kPa	44.5	45.3	45.3	45.3	47.8
	Pressure drop	ft.H2O	14.6	14.9	14.9	14.9	15.7
Condenser	Connection pipe	mm	DN200	DN200	DN200	DN250	DN250
	Type	-	Horizontal shell and tube condenser				
	Fouling factor	m ² ·°C/kW	0.044	0.044	0.044	0.044	0.044
		m³/h	269	290	310	338	379
	Water flow volume	GPM	1184	1277	1365	1488	1669
		kPa	47.1	47.2	47.3	48.4	49.3
Sound pressure level(Max.)	dB(A)	86.5	86.9	87.3	86.8	87.1	87.6
Dimension	Outline(W×D×H)	mm	4620×1960×2130	4620×1960×2130	4620×1960×2130	4620×1960×2130	4620×1960×2130
	Package(W×D×H)	mm	4650×2100×2350	4650×2100×2350	4650×2100×2350	4650×2100×2350	4650×2100×2350
Net/Gross/Operating weight	kg	8850/9100/9380	8900/9150/9430	8950/9200/9490	10000/10250/10600	10100/10350/10700	10200/10450/10810
Loading quantity	40'GP/40'HQ	unit	1	1	1	1	1

Model		LHVE532GE3GE3/Nb-M	LHVE732HE7JE7/Nb-M	LHVE732HE6JE6/Nb-M	LHVE732HE5JE5/Nb-M	LHVE832HE4JE4/Nb-M
Cooling capacity	kW	644.4	696.6	757.6	817.7	870.9
	RT	183.3	198.1	215.5	232.6	247.7
Capacity ajustment range	%	10%-100%				
EER	W/W	5.86	5.86	5.84	5.82	5.65
IPLV	W/W	10.08	10.00	10.03	10.04	9.68
Power supply	V/Ph/Hz	380V 3N~ 50/60Hz;400-415V 3N~ 50/60Hz				
Power input	kW	110.1	118.9	129.8	140.6	154.2
Comperssor	Type	-	Semi-closed permanent magnetic synchronous inverter screw compressor			
	Starting mode	-	Inverter startup			
	Quantity	-	1	1	1	1
Refrigerant charge volume	kg	200	220	220	250	250
Refrigeration oil	Type	-	CPI-Solest-170			
	Charge volume	L	23	23	23	28
Evaporator	Type	-	Mixed falling film evaporator			
	Fouling factor	m ² ·°C/kW	0.0176	0.0176	0.0176	0.0176
		m³/h	100	108	117	135
	Water flow rate	GPM	440	476	515	594
		kPa	40.9	40.8	40.8	37.5
	Pressure drop	ft.H2O	13.4	13.4	13.4	12.3
Condenser	Connection pipe	mm	DN125	DN150	DN150	DN150
	Type	-	Horizontal shell and tube condenser			
	Fouling factor	m ² ·°C/kW	0.044	0.044	0.044	0.044
		m³/h	126	136	148	171
	Water flow volume	GPM	555	599	652	753
		kPa	44.9	44.0	41.6	43.6
Sound pressure level(Max.)	dB(A)	85.5	85.3	85.8	86.1	85.1
Dimension	Outline(W×D×H)	mm	3320×1570×1980	3400×1700×2010	3400×1700×2010	3400×1860×2040
	Package(W×D×H)	mm	3400×1650×2100	3400×1700×2100	3400×1700×2100	3450×1900×2150
Net/Gross/Operating weight	kg	3750/3900/3980	4350/4500/4610	4400/4550/4660	4450/4600/4720	5050/5250/5350
Loading quantity	40'GP/40'HQ	unit	1	1	1	1

CENTRIFUGAL CHILLER

CE Series Centrifugal Chiller

CVE Series Permanent Magnet
Synchronous Inverter Centrifugal
Chiller

CC Series Magnetic Bearing
Inverter Centrifugal Chiller

CE Series Centrifugal Chiller

R134a

A new generation of fixed-speed centrifugal chiller, with two-stage compression technology, is highly efficient, energy-saving, safe and reliable.





High-efficiency and energy-saving



Integrated startup cabinet



2-stage compression



Low noise quality



High-efficiency heat exchange



Electrodeless adjustment



Energy-saving and eco-friendly



Stable and reliable

» 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 is wide and operation range is wide.

» Variable-area diffuser is adopted to effectively improve surge margin and system operation range, and reduce noise and vibration.

» With integrated startup cabinet and wire connection in the factory, user only needs to provide power cord, so wire connection during installation is simplified and floor area of startup cabinet is reduced.

» Semi-enclosed motor and helical refrigerant ejecting cooling technology is adopted to not only reduce the risk of refrigerant and lubricant leakage, but also prevent heat dissipation in machine room, reducing the cooling device cost and operation cost.

» New heat exchanger specially designed for centrifugal chiller contributes to even distribution of refrigerant, rational temperature field and heat exchange rate improvement; meanwhile, the heat exchanger adopts high-efficiency heat exchange tube for reducing heat transfer resistance and improving the system's cooling capacity and energy efficiency ratio.

» User-friendly touch screen is adopted for convenient operation.

» High-performance digital signal processing and intelligent control technology is adopted.

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



Operating condition of nominal cooling (water temperature)				Operating range (water temperature)			
Chilled water		Cooling water		Chilled water		Cooling water	
Inlet(℃)	Outlet(℃)	Inlet(℃)	Outlet(℃)	Outlet(℃)	I/O difference(℃)	Inlet(℃)	I/O difference(℃)
12.2	6.7	29.4	34.9	5~15	2.5~8	12~35	3.5~8

Model		CE310LG2HG2	CE311LG1HG1	CE320MH4HH2	CE321MH3HH1	CE330MH2JH2	CE331MH1JH1
Cooling capacity	kW	1231	1406	1582	1758	1934	2110
	RT	350	400	450	500	550	600
EER	W/W	6.10	6.09	6.38	6.42	6.54	6.55
IPLV	W/W	6.64	6.63	6.69	6.97	6.91	7.11
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	kW	201.7	230.9	248.0	273.8	295.7	322.1
RLA	A	344.40	394.20	423.40	467.50	504.80	549.80
Comperssor	Type	Centrifugal					
	Starting mode	Y- Δ					
	Quantity	-	1	1	1	1	1
Refrigerant charge volume	kg	425	450	550	575	600	625
Refrigeration oil	Type	No.68 synthetic fatty oil					
	Charge volume	L	50	50	50	50	50
Evaporator	Type	Flooded					
	Fouling factor	m ² ·℃/kW	0.018	0.018	0.018	0.018	0.018
	Water flow rate	L/s	53.05	60.62	68.2	75.78	90.93
		GPM	840.9	961	1081	1201.0	1442.0
	Pressure drop	kPa	54.2	57.3	62.4	62.5	68.2
		ft.WG	17.8	18.8	20.5	20.5	22.4
	Connection pipe	mm	DN200	DN200	DN250	DN250	DN250
Condenser	Type	Shell and tube					
	Fouling factor	m ² ·℃/kW	0.044	0.044	0.044	0.044	0.044
	Water flow volume	L/s	66.28	75.77	84.69	94.02	103.20
		GPM	1051	1201	1343	1490.0	1635.0
	Pressure drop	kPa	62.7	62.8	63.1	65.8	63.5
		ft.WG	20.6	20.6	20.7	21.6	20.8
Sound pressure level(Max.)	dB(A)	82	82	82	82	82	82
Dimension	Outline(W×D×H)	mm	3850×1810×2220	3850×1810×2220	4300×1850×2310	4300×1850×2310	4250×1910×2370
	Package(W×D×H)	mm	3950×1950×2450	3950×1950×2450	4400×1900×2550	4400×1900×2550	4400×2000×2601
Net/Gross/Operating weight	kg	6800/7100/7450	7100/7400/7750	7300/7800/8200	7500/8000/8400	7850/8350/8800	8100/8600/9100
Loading quantity	40'GP/40'HQ	unit	1	1	1	1	1

Model		CE410PIEKIE	CE411PIDKID	CE420PICKIC	CE421PIBKIB	CE510PIAKIA	CE511QJCMJD
Cooling capacity	kW	2285	2461	2637	2813	2989	3164
	RT	650	700	750	800	850	900
EER	W/W	6.40	6.44	6.50	6.53	6.50	6.52
IPLV	W/W	6.82	7.02	6.94	7.12	7.09	6.98
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	kW	357.1	382.2	405.7	430.8	459.8	485.3
RLA	A	609.60	652.40	692.60	735.30	784.90	828.50
Comperssor	Type	Centrifugal					
	Starting mode	Y- Δ					
	Quantity	-	1	1	1	1	1
Refrigerant charge volume	kg	650	675	750	775	800	900
Refrigeration oil	Type	No.68 synthetic fatty oil					
	Charge volume	L	60	60	60	80	80
Evaporator	Type	Flooded					
	Fouling factor	m ² ·℃/kW	0.018	0.018	0.018	0.018	0.018
	Water flow rate	L/s	98.51	106.1	113.7	121.2	136.4
		GPM	1562.0	1682.0	1802.0	1922.0	2162.0
	Pressure drop	kPa	63.3	61.5	64.9	60.2	61.8
		ft.WG	20.8	20.2	21.3	19.8	20.3
	Connection pipe	mm	DN250	DN250	DN250	DN250	DN300
Condenser	Type	Shell and tube					
	Fouling factor	m ² ·℃/kW	0.044	0.044	0.044	0.044	0.044
	Water flow volume	L/s	122.30	131.60	140.80	150.10	159.60
		GPM	1938.0	2086.0	2232.0	2379.0	2529.0
	Pressure drop	kPa	57.2	57	58.2	58.5	60.2
		ft.WG	18.8	18.7	19.1	19.2	21.7
Sound pressure level(Max.)	dB(A)	83	83	83	83	84	84
Dimension	Outline(W×D×H)	mm	4550×2010×2390	4550×2010×2390	4550×2010×2390	4550×2010×2390	4980×2210×2610
	Package(W×D×H)	mm	4700×2100×2600	4700×2100×2600	4700×2100×2600	4700×2100×2600	5100×2300×2850
Net/Gross/Operating weight	kg	9600/10100/10700	9850/10350/10950	10100/10600/11300	10350/10950/11550	10800/11300/12050	12000/12600/13450
Loading quantity	40'GP/40'HQ	unit	1	1	1	1	1

Model		CE512QJBMJC	CE520QJAMJB	CE521RJAMJA	CE522RJAMJA	CE610SKNQKN	CE611SKMQKM
Cooling capacity	kW	3340	3516	3692	3868	4219	4571
	RT	950	1000	1050	1100	1200	1300
EER	W/W	6.54	6.55	6.60	6.60	6.54	6.57
IPLV	W/W	7.12	6.93	7.07	7.19	6.95	7.16
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	kW	510.7	536.8	559.4	586.0	645.1	695.7
RLA	A	871.90	916.40	954.90	1000.00	1101.30	1187.70
Comperssor	Type	-	Centrifugal				
	Starting mode	-	Y- Δ			Soft starting	
	Quantity	-	1	1	1	1	1
Refrigerant charge volume	kg	925	950	950	975	1250	1300
Refrigeration oil	Type	-	No.68 synthetic fatty oil				
	Charge volume	L	80	80	80	80	100
Evaporator	Type	-	Flooded				
	Fouling factor	m ² ·°C/kW	0.018	0.018	0.018	0.018	0.018
	Water flow rate	L/s	144.00	151.60	159.10	166.70	181.90
		GPM	2282.0	2403.0	2523.0	2643.0	2883.0
	Pressure drop	kPa	59.2	59.3	55.4	60.1	56
		ft.WG	19.4	19.4	18.2	19.7	18.4
Connection pipe	mm	DN300	DN300	DN300	DN300	DN350	DN350
Condenser	Type	-	Shell and tube				
	Fouling factor	m ² ·°C/kW	0.044	0.044	0.044	0.044	0.044
	Water flow volume	L/s	178.20	187.50	196.70	206.10	225.10
		GPM	2825.0	2973.0	3118.0	3267.0	3568.0
	Pressure drop	kPa	66.7	66.9	62.4	67.7	42
		ft.WG	21.9	21.9	20.5	22.2	13.8
Connection pipe	mm	DN300	DN300	DN300	DN300	DN350	DN350
Sound pressure level(Max.)	dB(A)	84	84	84	84	85	85
Dimension	Outline(W×D×H)	mm	4980×2210×2610	4980×2210×2610	4980×2310×2710	4980×2310×2710	5250×2530×2880
	Package(W×D×H)	mm	5100×2300×2850	5100×2300×2850	5100×2300×2950	5100×2300×2950	5600×2900×3100
Net/Gross/Operating weight	kg	12250/12850/13750	12500/13100/14000	13156/13756/14750	13429/14029/15050	16600/17200/18700	17000/17600/19150
Loading quantity	40'GP/40'HQ	unit	1	1	1	1	1

Model		CE620SKLQKL	CE621TKNRKN-G	CE630TKMRKM-G	CE631TKLRKL-G	CE710TLNRLL-G	CE711TLMSLP-G	CE720TLRLRO-G
Cooling capacity	kW	4922	5274	5626	5977	6329	6680	7032
	RT	1400	1500	1600	1700	1800	1900	2000
EER	W/W	6.52	6.55	6.62	6.65	6.66	6.68	6.66
IPLV	W/W	6.95	7.13	7.08	7.24	7.12	7.27	7.13
Power supply	V/Ph/Hz	380V 3N~ 50Hz	10000V 3N~ 50Hz	10000V 3N~ 50Hz	10000V 3N~ 50Hz	10000V 3N~ 50Hz	10000V 3N~ 50Hz	10000V 3N~ 50Hz
Power input	kW	755.0	805.2	849.8	898.8	950.3	1000.0	1056.0
RLA	A	1288.80	52.20	55.10	58.30	61.60	64.90	68.50
Comperssor	Type	-	Centrifugal					
	Starting mode	-	soft starting	Direct starting				
	Quantity	-	1	1	1	1	1	1
Refrigerant charge volume	kg	1350	1400	1450	1500	1600	1650	1800
Refrigeration oil	Type	-	No.68 synthetic fatty oil					
	Charge volume	L	100	100	100	100	120	120
Evaporator	Type	-	Flooded					
	Fouling factor	m ² ·°C/kW	0.018	0.018	0.018	0.018	0.018	0.018
	Water flow rate	L/s	212.20	227.30	242.50	257.60	272.80	288.00
		GPM	3364.0	3604.0	3844.0	4084.0	4325.0	4565.0
	Pressure drop	kPa	56.9	54.4	45.5	45.5	56.9	56.1
		ft.WG	18.7	17.8	14.9	14.9	18.7	18.7
Connection pipe	mm	DN350	DN350	DN350	DN350	DN400	DN400	DN400
Condenser	Type	-	Shell and tube					
	Fouling factor	m ² ·°C/kW	0.044	0.044	0.044	0.044	0.044	0.044
	Water flow volume	L/s	262.70	281.30	299.60	318.20	336.80	355.40
		GPM	4165.0	4459.0	4750.0	5044.0	5339.0	5634.0
	Pressure drop	kPa	44.2	42.9	44.4	44.4	63.7	62.6
		ft.WG	14.5	14.1	14.6	14.6	20.9	20.5
Connection pipe	mm	DN350	DN400	DN400	DN400	DN450	DN450	DN450
Sound pressure level(Max.)	dB(A)	85	85	85	85	86	86	86
Dimension	Outline(W×D×H)	mm	5250×2530×2880	5400×2750×3000	5400×2750×3000	5400×2750×3000	5800×2750×3100	5800×2750×3100
	Package(W×D×H)	mm	5600×2900×3100	5800×3200×3200	5800×3200×3200	5800×3200×3200	6400×3100×3300	6400×3100×3300
Net/Gross/Operating weight	kg	17400/18000/19600	18600/19400/21250	19000/19800/21500	19500/20300/22050	23500/24300/26150	24000/24800/26800	24500/25300/27450
Loading quantity	40'GP/40'HQ	unit	1	1	1	1	1	1

Model		CE721ULNSLN-G	CE730ULMSLM-G	CE731ULLSLL-G	CE610UN4SN4-2-G	CE611UN3SN3-2-G	CE620UN2SN2-2-G	CE621UN1SN1-2-G
Cooling capacity	kW	7384	7735	8087	8438	9142	9845	10550
	RT	2100	2200	2300	2400	2600	2800	3000
EER	W/W	6.68	6.70	6.71	6.68	6.67	6.68	6.72
IPLV	W/W	7.27	7.17	7.30	8.19	8.18	8.20	8.24
Power supply	V/Ph/Hz	10000V 3N~ 50Hz	10000V 3N~ 50Hz	10000V 3N~ 50Hz	10000V 3N~ 50Hz	10000V 3N~ 50Hz	10000V 3N~ 50Hz	10000V 3N~ 50Hz
Power input	kW	1105.0	1155.0	1205.0	1263.0	1371.0	1474.0	1570.0
RLA	A	71.70	74.90	78.20	81.90	88.90	95.60	101.80
Comperssor	Type	-	Centrifugal					
	Starting mode	-	Direct starting					
	Quantity	-	1	1	1	2	2	2
Refrigerant charge volume	kg	2000	2100	2200	2300	2500	2700	2800
Refrigeration oil	Type	-	No.68 synthetic fatty oil					
	Charge volume	L	120	120	120	200	200	200
Evaporator	Type	-	Flooded					
	Fouling factor	m ² ·°C/kW	0.018	0.018	0.018	0.018	0.018	0.018
	Water flow rate	L/s	318.30	333.40	348.60	363.70	394.10	424.40
		GPM	5045.0	5286.0	5526.0	5766.0	6247.0	7208.0
	Pressure drop	kPa	58.2	58.0	58.0	43.7	43.9	43.5
		ft.WG	19.1	19	19	14.3	14.4	14.2
Connection pipe	mm	DN400	DN400	DN400	DN500	DN500	DN500	DN500
Condenser	Type	-	Shell and tube					
	Fouling factor	m ² ·°C/kW	0.044	0.044	0.044	0.044	0.044	0.044
	Water flow volume	L/s	392.80	411.40	430.00	448.90	486.40	523.80
		GPM	6227.0	6521.0	6816.0	7116.0	7711.0	8303.0
	Pressure drop	kPa	59.8	59.2	60.8	40.1	39.9	39.7
		ft.WG	19.6	19.4	20.0	13.2	13.1	13.0
Connection pipe	mm	DN450	DN450	DN450	DN500	DN500	DN500	DN500
Sound pressure level(Max.)	dB(A)	86	86	86	88	88	88	88
Dimension	Outline(W×D×H)	mm	5800×3000×3300	5800×3000×3300	5800×3000×3300	7600×2960×3150	7600×2960×3150	7600×2960×3150
	Package(W×D×H)	mm	6400×3350×3350	6400×3350×3350	6400×3350×3350	8000×3360×3360	8000×3360×3360	8000×3360×3360
Net/Gross/Operating weight	kg	26000/26800/29300	26600/27400/30000	26900/27700/30400	32000/33000/35750	33000/34000/36950	34000/35000/38150	35000/36000/39250
Loading quantity	40'GP/40'HQ	unit	1	1	1	1	1	1

- Notes:
- Above model selection is applicable to the condition in which leaving chilled water temperature is 6.7 °C and entering cooling water temperature is 29.4 °C.
 - CE610UN4SN4-2-G~CE621UN1SN1-2-G adopt independent dual-system structure.
 - Above water flow is indicated according to ARI 550/590-2015; IPLV is the test value obtained based on the working condition specified in ARI 550/590-2015.
 - Scale factors of chilled water and cooling water are 0.018 m³/°C/kW and 0.044m³·°C/kW respectively.
 - For special working condition, please contact Gree's local sales agent.
 - Standard unit's water side bearing pressure is 1.0MPa; 1.6MPa is an available option.
 - The unit's performance parameters may be changed without prior notice due to product improvement. For the specific parameters, please refer to product nameplate.
 - The product models are not for EU.

CVE Series Permanent Magnet Synchronous Inverter Centrifugal Chiller

₹134a

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-efficiency 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 patented 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.



Operating condition of nominal cooling (water temperature)				Operating range (water temperature)			
Chilled water		Cooling water		Chilled water		Cooling water	
Inlet(℃)	Outlet(℃)	Inlet(℃)	Outlet(℃)	Outlet(℃)	I/O difference(℃)	Inlet(℃)	I/O difference(℃)
12.2	6.7	29.4	34.9	5~15	2.5~8	12~35	3.5~8

Model		CVE210HG4GG4D	CVE210HG3GG3D	CVE220HG2GG2D	CVE220HG1GG1D	CVE310LG1HG1D	CVE320MH4HH2D	
Cooling capacity	kW	879	967	1055	1231	1406	1582	
	RT	250	275	300	350	400	450	
EER	W/W	6.17	6.09	6.46	6.36	6.47	6.59	
IPLV	W/W	10.06	10.31	10.37	10.77	10.95	10.70	
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	kW	142.5	158.8	163.3	193.5	217.4	240.1	
RLA	A	218.6	243.7	250.6	296.9	333.6	368.5	
Comperssor	Type	Centrifugal						
	Starting mode	Variable frequency drives						
	Quantity	-	1	1	1	1	1	
Refrigerant charge volume	kg	350	375	400	425	450	550	
Refrigeration oil	Type	No.68 synthetic fatty oil						
	Charge volume	L	30	30	30	40	40	40
Evaporator	Type	Flooded						
	Fouling factor	m ² ·℃/kW	0.018	0.018	0.018	0.018	0.018	0.018
	Water flow rate	L/s	37.89	41.68	45.47	53.05	60.62	68.20
		GPM	600.6	660.7	720.8	840.9	961.0	1081.0
	Pressure drop	kPa	58.3	58.4	58.4	62.6	57.3	62.4
		ft.WG	19.1	19.2	19.2	20.5	18.8	20.5
	Connection pipe	mm	DN200	DN200	DN200	DN200	DN200	DN250
Condenser	Type	Shell and tube						
	Fouling factor	m ² ·℃/kW	0.044	0.044	0.044	0.044	0.044	0.044
	Water flow volume	L/s	47.27	52.09	56.37	65.90	75.14	84.32
		GPM	749.3	825.7	893.5	1045.0	1191.0	1337.0
	Pressure drop	kPa	54.2	54.4	53.6	58.0	53.1	62.6
		ft.WG	17.8	17.8	17.6	19	17.4	20.5
Connection pipe	mm	DN200	DN200	DN200	DN200	DN200	DN250	
Sound pressure level(Max.)	dB(A)	80	80	80	82	82	82	
Dimension	Outline(W×D×H)	mm	3770×1590×1850	3770×1590×1850	3770×1590×1850	3770×1590×1850	3850×1810×2220	4300×1850×2150
	Package(W×D×H)	mm	3900×1750×2050	3900×1750×2050	3900×1750×2050	3900×1750×2050	3950×1950×2350	4450×1950×2350
Net/Gross/Operating weight	kg	5150/5450/5700	5240/5540/5800	5500/5800/6050	5700/6000/6600	6100/6450/6400	6800/7200/7650	
Loading quantity	40'GP/40'HQ	unit	1	1	1	1	1	

Model		CVE320MH3HH1D	CVE410MH2JH2D	CVE410MH1JH1D	CVE510PIEKIE	CVE510PIDKID	CVE520PICKIC	
Cooling capacity	kW	1758	1934	2110	2285	2461	2637	
	RT	500	550	600	650	700	750	
EER	W/W	6.48	6.67	6.58	6.66	6.57	6.73	
IPLV	W/W	10.96	10.88	11.12	10.94	11.14	10.90	
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	kW	271.3	289.9	320.6	343.2	374.6	391.3	
RLA	A	416.4	444.9	492.0	526.6	574.9	600.4	
Comperssor	Type	-	Centrifugal					
	Starting mode	-	Variable frequency drives					
	Quantity	-	1	1	1	1	1	
Refrigerant charge volume	kg	575	600	625	650	675	700	
Refrigeration oil	Type	-	No.68 synthetic fatty oil					
	Charge volume	L	40	40	40	40	40	
Evaporator	Type	-	Flooded					
	Fouling factor	m ² ·℃/kW	0.018	0.018	0.018	0.018	0.018	0.018
		L/s	75.78	83.36	90.93	98.51	106.10	113.70
	Water flow rate	GPM	1201.0	1321.0	1442.0	1562.0	1682.0	1802.0
		Pressure drop	kPa	62.5	68.2	67.9	62.0	60.3
	ft.WG		20.5	22.4	22.3	20.3	19.8	21.3
Connection pipe	mm	DN250	DN250	DN250	DN250	DN250	DN250	
Condenser	Type	-	Shell and tube					
	Fouling factor	m ² ·℃/kW	0.044	0.044	0.044	0.044	0.044	0.044
		L/s	93.90	102.90	112.50	121.67	131.20	140.10
	Water flow volume	GPM	1489.0	1631.0	1783.0	1928.0	2080.0	2221.0
		Pressure drop	kPa	65.6	63.3	62.8	56.7	56.8
	ft.WG		21.5	20.7	20.6	18.6	18.6	18.9
Connection pipe	mm	DN250	DN250	DN250	DN250	DN250	DN250	
Sound pressure level(Max.)	dB(A)	85	85	85	85	88	88	
Dimension	Outline(W×D×H)	mm	4300×1850×2150	4250×1910×2210	4250×1910×2210	4550×2010×2300	4550×2010×2300	4550×2010×2300
	Package(W×D×H)	mm	4450×1950×2350	4400×2100×2450	4400×2100×2450	4700×2100×2500	4700×2100×2500	4700×2100×2500
Net/Gross/Operating weight	kg	6880/7280/7750	7710/8160/8600	7820/8270/8750	8860/9360/9900	8970/9470/10050	9270/9770/10400	
Loading quantity	40'GP/40'HQ	unit	1	1	1	1	1	

Model		CVE520PIBKIB	CVE520PIAKIA	CVE610QJCMJD	CVE610QJBMJC	CVE620QJAMJB	CVE620RJAMJA
Cooling capacity	kW	2813	2989	3164	3340	3516	3868
	RT	800	850	900	950	1000	1100
EER	W/W	6.72	6.63	6.83	6.75	6.84	6.75
IPLV	W/W	11.10	11.24	11.30	11.45	11.16	11.44
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	kW	418.6	450.8	463.3	494.8	514	573
RLA	A	642.4	691.8	711.0	758.3	788.9	879.3
Compressor	Type	-	Centrifugal				
	Starting mode	-	Variable frequency drives				
	Quantity	-	1	1	1	1	1
Refrigerant charge volume	kg	725	730	900	925	950	975
Refrigeration oil	Type	-	No.68 synthetic fatty oil				
	Charge volume	L	40	40	50	50	50
Evaporator	Type	-	Flooded				
	Fouling factor	m ² ·°C/kW	0.018	0.018	0.018	0.018	0.018
	Water flow rate	L/s	121.10	128.80	136.40	144.00	151.60
		GPM	1922.0	2042.0	2162.0	2282.0	2403.0
	Pressure drop	kPa	60.2	61.8	60.2	59.2	59.3
		ft.WG	19.8	20.3	19.7	19.4	19.7
Connection pipe	mm	DN250	DN250	DN300	DN300	DN300	
Condenser	Type	-	Shell and tube				
	Fouling factor	m ² ·°C/kW	0.044	0.044	0.044	0.044	0.044
	Water flow volume	L/s	149.50	159.20	167.90	177.40	186.50
		GPM	2370.0	2523.0	2661.0	2813.0	2956.0
	Pressure drop	kPa	58.1	59.9	65.4	66.2	66.2
		ft.WG	19.1	19.7	21.5	21.7	22.1
Connection pipe	mm	DN250	DN250	DN300	DN300	DN300	
Sound pressure level(Max.)	dB(A)	88	88	88	88	88	88
Dimension	Outline(W×D×H)	mm	4550×2010×2300	4550×2010×2300	4980×2210×2500	4980×2210×2500	4980×2210×2500
	Package(W×D×H)	mm	4700×2100×2500	4700×2100×2500	5100×2370×2750	5100×2370×2750	5100×2600×2850
Net/Gross/Operating weight	kg	9370/9870/10500	9480/9980/10600	10730/11230/12150	10860/11360/12250	11010/11510/12500	11670/12170/13200
Loading quantity	40'GP/40'HQ	unit	1	1	1	1	1

Notes:

1. Above model selection is applicable to the condition in which leaving chilled water temperature is 6.7℃ and entering cooling water temperature is 29.4℃.

2. Standard unit's water side bearing pressure is 1.0MPa; 1.6MPa is an available option.

3. Scale factors of chilled water and cooling water are 0.018m²·℃/kW and 0.044m²·℃/kW respectively.

4. Above water flow is indicated according to ARI 550/590-2015; IPLV is the test value obtained based on the working condition specified in ARI 550/590-2015.

5. For compressor using inverter starter, starting current< rated current; power factor is 0.99; cooling capacity: 250~600RT. The diode inverter startup cabinet (type code: D) is the standard part for the unit, while the four-quadrant inverter startup cabinet (type code: null) is the optional one.

6. The unit's performance parameters may be changed without prior notice due to product improvement. For the specific parameters, please refer to product nameplate.

7. The product models are not for EU.

CC Series Magnetic Bearing Inverter Centrifugal Chiller



Gree CC series magnetic bearing inverter centrifugal chiller adopts the magnetic bearing compressor for aeronautic industry, which achieves oil-free operation of cooling system, avoids complicated lubricant system and greatly improves system's reliability. This series can be widely adopted in hotels, office buildings, etc.

Energy-saving and eco-friendly

Stable and reliable

Convenient operation

Multiple protections

Quite function

Long-distance monitoring

- 》 It adopts magnetic bearing to achieve oil-free operation and reduce the heat exchange influence of lubricant.
- 》 The system adopts flooded heat exchange design and build-in subcooler in condenser.
- 》 Impellers directly driven by the motor with gearless design, improving the reliability of the system.
- 》 With advanced and reliable microcomputer control system, powerful group control modules and building communication interface.
- 》 User-friendly touch screen is adopted for convenient operation, precise control and stable output.
- 》 Multiple protection function.
- 》 Noise of this entire unit is 10 dB(A) lower than the traditional ones.



Model			CC210FE5EE5	CC220FE4EE4	CC220FE3EE3	CC230GE2FE2	CC230GE1FE1	CC310HG5GG5
Cooling capacity	kW		352	457	527	633	703	791
	RT		100	130	150	180	200	225
EER	W/W		5.81	5.87	5.76	6.16	6.04	6.12
IPLV	W/W		9.84	9.41	9.76	9.98	10.24	9.72
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	kW		60.52	77.87	91.56	102.7	116.4	129.3
RLA	A		92.9	119.5	140.5	157.7	178.7	198.4
Comperssor	Type	-	Centrifugal					
	Starting mode	-	Variable frequency drives					
	Quantity	-	1	1	1	1	1	1
Refrigerant charge volume	kg		170	200	200	220	220	250
Evaporator	Type	-	Falling film					
	Fouling factor	m ² ·°C/KW	0.018	0.018	0.018	0.018	0.018	0.018
	Water flow rate	L/s	15.16	19.7	22.73	27.28	30.31	34.1
		GPM	240.3	312.3	360.4	432.5	480.5	540.6
	Pressure drop	kPa	30.5	31.4	31.2	31.9	31.5	31.7
		ft.WG	10	10.3	10.2	10.5	10.3	18.7
Connection pipe	mm		DN150	DN150	DN150	DN150	DN200	
Condenser	Type	-	Shell and tube					
	Fouling factor	m ² ·°C/KW	0.044	0.044	0.044	0.044	0.044	0.044
	Water flow volume	L/s	19.07	24.75	28.64	34.04	37.93	42.59
		GPM	302.3	392.4	454.0	539.6	601.2	675.1
	Pressure drop	kPa	35.5	36.2	34.9	33.9	33.9	53.7
		ft.WG	11.6	11.9	11.5	11.1	11.1	17.6
Connection pipe	mm		DN150	DN150	DN150	DN150	DN200	
Sound pressure level(Max.)	dB(A)		78	78	78	78	78	78
Dimension	Outline(W×D×H)	mm	3350×1140×1900	3350×1140×1900	3350×1140×1900	3350×1180×1900	3350×1180×1900	3770×1590×1950
	Package(W×D×H)	mm	3500×1360×2100	3500×1360×2100	3500×1360×2100	3500×1400×2100	3500×1400×2100	3900×1750×2050
Net/Gross/Operating weight	kg		2695/2995/3050	3329/3629/3700	3500/3800/3900	3738/4038/4200	3905/4205/4350	4796/5196/5300
Loading quantity	40' GP/40'HQ	unit	1	1	1	1	1	1

Model			CC310HG4GG4	CC310HG3GG3	CC320HG2GG2	CC320HG1GG1
Cooling capacity		kW	879	967	1055	1231
		RT	250	275	300	350
EER	W/W		6.16	6.06	6.34	6.24
IPLV	W/W		10.03	10.27	10.16	10.58
Power supply		V/Ph/Hz	380V 3N~ 50Hz	380V 3N~ 50Hz	380V 3N~ 50Hz	380V 3N~ 50Hz
Power input		kW	142.7	159.6	166.4	197.2
RLA		A	219.0	244.9	255.3	302.7
Comperssor	Type	-	Centrifugal			
	Starting mode	-	Variable frequency drives			
	Quantity	-	1	1	1	1
Refrigerant charge volume		kg	250	275	275	300
Evaporator	Type	-	Falling film			
	Fouling factor	m² ·°C /kW	0.018	0.018	0.018	0.018
		L/s	37.89	41.68	45.47	53.05
	Water flow rate	GPM	600.6	660.7	720.8	840.9
		kPa	57.0	56.8	56.8	57.0
	Pressure drop	ft.WG	18.7	18.6	18.6	18.7
Connection pipe		mm	DN200	DN200	DN200	DN200
Condenser	Type	-	Shell and tube			
	Fouling factor	m² ·°C /kW	0.044	0.044	0.044	0.044
		L/s	47.28	52.13	56.51	66.07
	Water flow volume	GPM	749.4	826.3	895.8	1047.0
		kPa	53.6	53.9	53.3	53.6
	Pressure drop	ft.WG	17.6	17.7	17.5	17.6
Connection pipe		mm	DN200	DN200	DN200	DN200
Sound pressure level(Max.)		dB(A)	78	78	78	78
Dimension	Outline(W×D×H)	mm	3770×1590×1950	3770×1590×1950	3770×1590×1950	3770×1590×1950
	Package(W×D×H)	mm	3900×1750×2050	3900×1750×2050	3900×1750×2050	3900×1750×2050
Net/Gross/Operating weight		kg	4833/5233/5350	4941/5341/5450	5008/5408/5600	5146/5646/5700
Loading quantity		40'GP/40'HQ	unit	1	1	1

Notes:

1. Above model selection is applicable to the condition in which leaving chilled water temperature is 6.7℃ and entering cooling water temperature is 29.4℃.

2. Standard unit's water side bearing pressure is 1.0MPa; 1.6MPa is an available option.

3. Scale factors of chilled water and cooling water are 0.018m²·℃/kW and 0.044m²·℃/kW respectively.

4. Above water flow is indicated according to ARI 550/590-2015; IPLV is the test value obtained based on the working condition specified in ARI 550/590-2015.

5. For compressor using inverter starter, starting current<rated current; power factor is 0.995.

6. The unit's performance parameters may be changed without prior notice due to product improvement. For the specific parameters, please refer to product nameplate.

7. The product models are not for EU.

Operating condition of nominal cooling (water temperature)				Operating range (water temperature)			
Chilled water		Cooling water		Chilled water		Cooling water	
Inlet(℃)	Outlet(℃)	Inlet(℃)	Outlet(℃)	Outlet(℃)	I/O difference(℃)	Inlet(℃)	I/O difference(℃)
12.2	6.7	29.4	34.9	5~15	2.5~8	12~35	3.5~8

Control system				Air-cooled Chiller			Screw Chiller			Centrifugal Chiller		
				Inverter Mini Chiller(Heat Pump, R410A Series)	Inverter Mini Chiller(Heat Pump, R32 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	CE Series Fixed-speed Centrifugal Chiller	CVE Series Permanent Magnet Synchronous Inverter Centrifugal Chiller	CC Series Magnetic Bearing Inverter Centrifugal Chiller
												
Display panel ¹⁾	Push-button display panel	Z263Q		●	●							
		Z26301HJ				●						
		Z2F3Q					●	●				
		Z2K3							●			
	Touch-screen display panel	CM18-GZ12/A3(M)							○			
		CM27-GZ12/A1(M)								●	●	●
Long-distance monitoring software	GREE AC eudemon 2009	FE30-00/A(M)				○	○	○	○	○	○	○
Others	Optoelectronic isolated converter	RS232-RS422/485				○	○	○	○	○	○	○
	Optoelectronic isolated signal repeater	RS-422/485				○	○	○	○	○	○	○

Notes:

● means standard, ○ means optional.

*1 with BMS (modbus) function.

TERMINAL

Fan Coil Unit

Air Curtain

Fan Coil Unit



» 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 removing and maintaining.



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

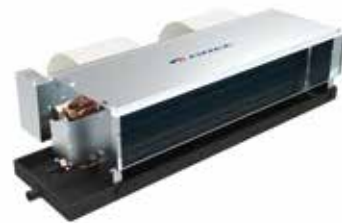
Model		FP-22LM/D-K	FP-34LM/D-K	FP-51LM/D-K	FP-68LM/D-K	FP-85LM/D-K	FP-102LM/D-K	FP-119LM/D-K
Air flow volume (H/M/L)	m³/h	220/165/110	340/255/170	510/382/255	680/510/340	850/637/425	1020/765/510	1190/892/595
	CFM	130/97/65	200/150/100	300/225/150	400/300/200	500/375/250	600/450/300	700/525/350
ESP		Pa	0	0	0	0	0	0
Capacity	Cooling/Heating	kW	1.1	1.7	2.6	3.3	4.2	5.2
Power system	Type	V/Ph/Hz	220-240V ~ 50Hz					
	Input	W	30	36	50	60	74	93
Water system	Water flow volume	l/s	0.062	0.086	0.136	0.173	0.215	0.301
	Pressure drop	kPa	3.7	8	9.4	17.5	20.5	27.1
		Flt·WG	1.2	2.6	3.1	5.7	6.7	8.9
Sound pressure level		dB(A)	33	36	38	40	42	44
Dimension (W×D×H)	Outline	mm	895×680×230	895×680×230	1050×680×230	1050×680×230	1350×680×230	1350×680×230
Connetion pipe	Water inlet & outlet (inner groove)	inch(mm)	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"
	Condensed water drain (outer groove)	inch(mm)	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"

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.

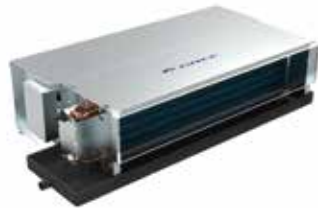
Fan Coil Unit

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 circle bellows)



(with circle bellows)



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.



Nominal test condition (temperature)				
Item	DB (°C)	WB (°C)	Inlet (°C)	Outlet (°C)
Cooling	27	19	7	12
Heating	20	—	45	40

2 Pipes/2 Rows/Standard Type

Model		FP-34WA/GHL-K	FP-51WA/GHL-K	FP-68WA/GHL-K	FP-85WA/GHL-K	FP-102WA/GHL-K	FP-136WA/GHL-K	FP-170WA/GHL-K	FP-204WA/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	1900/1425/950
	CFM	218/163/109	335/251/168	424/318/212	512/384/256	600/450/300	800/600/400	941/706/471	1118/838/559
ESP		Pa	0	0	0	0	0	0	0
Capacity	Cooling/Heating	kW	1.75/2.2	2.9/3.4	3.4/4.2	4.3/4.7	4.9/6	6.7/8	7.0/9
Power system	Type	V/Ph/Hz	220-240V ~ 50Hz						
	Input	W	35	54	66	84	101	150	198
Water system	Water flow volume	l/s	0.08	0.14	0.16	0.21	0.23	0.32	0.48
	Pressure drop(cooling)	kPa	15	36	31	27	42	47	42
		Flt.WG	4.92	11.808	10.168	9.84	19.68	11.48	11.808
Sound pressure level		dB(A)	37	38	40.5	44	46	47	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
	Package	mm	773×313×615	890×313×615	990×313×615	1090×313×615	1170×313×615	1470×313×615	1605×313×615
Net weight/Gross weight		kg	14.5/19.2	17/21.9	18.9/24	20.8/26.2	21.9/27.5	31.5/37.5	34.1/41.6
Connection pipe	Water inlet & outlet (inner groove)	inch(mm)	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"
	Condensed water drain (outer groove)	inch(mm)	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"
Loading quantity	40'GP/40'HQ	unit	318/424	273/364	255/340	225/300	210/280	168/224	135/204
Optional	Wired remote control	-	Luxury wired controller:WK-010PA-K/LCD controller:WK-110PA0						

Note: This parameter is obtained based on the test standard of Eurovent and under 0Pa static pressure with circle bellows & filter.

2 Pipes/2 Rows/High ESP Type

Model			FP-34WAH/GHL-K	FP-51WAH/GHL-K	FP-68WAH/GHL-K	FP-85WAH/GHL-K	FP-102WAH/GHL-K	FP-136WAH/GHL-K	FP-170WAH/GHL-K	FP-204WAH/GHL-K		
Air flow volume(H/M/L)			m³/h	450/338/225	570/428/225	750/563/375	930/698/465	1100/825/550	1400/1050/700	1700/1275/850	2000/1500/1000	
			CFM	265/119/132	347/251/168	440/330/221	547/410/274	647/458/324	824/618/412	1000/750/500	1176/882/588	
ESP			Pa	0	0	0	0	0	0	0		
Capacity			Cooling/Heating	kW	2/2.3	3.1/3.5	3.55/4.5	4.5/4.9	5.2/6.3	6.9/8.2	7.2/9.2	10.2/12
Power system	Type	V/Ph/Hz	220-240V ~ 50Hz									
	Input	W	48	57	72	90	111	152	185	222		
Water system	Water flow volume	l/s	0.10	0.15	0.17	0.22	0.25	0.33	0.34	0.49		
	Pressure drop(cooling)	kPa	18	41	32	30	37	47	42	34		
		Ft.WG	4.92	9.84	7.544	9.84	11.48	8.2	11.808	9.84		
Sound pressure level			dB(A)	39	39	41	46	49	48	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	773×313×615	890×313×615	990×313×615	1090×313×615	1170×313×615	1470×313×615	1605×313×615	1710×313×615		
Net weight/Gross weight			kg	14.5/19.2	17/21.9	18.9/24	20.8/26.2	21.9/27.5	31.5/37.5	34.1/41.6	38/44.5	
Connection pipe	Water inlet & outlet (inner groove)	inch(mm)	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"		
	Condensed water drain (outer groove)	inch(mm)	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"		
Loading quantity			40°GP/40°HQ	unit	318/424	273/364	255/340	225/300	210/280	168/224	135/204	138/184
Optional	Wired remote control	-	Luxury wired controller:WK-010PA-K/LCD controller:WK-110PA0									

2 Pipes/3 Rows 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	720/540/60	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	
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	Type	V/Ph/Hz	220-240V ~ 50Hz								
	Input	W	35	58	66	78	102	161	150	192	
Water system	Water flow volume	l/s	0.10	0.15	0.20	0.23	0.28	0.36	0.42	0.50	
	Pressure drop(cooling)	kPa	20	27	25	35	45	44	32	39	
		Ft.WG	6.56	6.888	7.216	11.48	19.68	9.84	10.824	11.48	
Sound pressure level		dB(A)	37	39	40.5	44	48	47	48	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	773×313×615	890×313×615	990×313×615	1090×313×615	1170×313×615	1470×313×615	1605×313×615	1710×313×615	
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	38/44.5	
Connection pipe	Water inlet & outlet (inner groove)	inch(mm)	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	
	Condensed water drain (outer groove)	inch(mm)	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	
Loading quantity	40°GP/40°HQ	unit	318/424	273/364	255/340	225/300	210/280	168/224	135/204	138/184	
Optional	Wired remote control	-	Luxury wired controller:WK-010PA-K/LCD controller:WK-110PA0								

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	9/10.9	10.5/12.4
Power system	Type	V/Ph/Hz	220-240V ~ 50Hz							
	Input	W	46	57	72	83	108	164	185	221
Water system	Water flow volume	l/s	0.12	0.16	0.20	0.23	0.29	0.37	0.43	0.50
	Pressure drop(cooling)	kPa	26	27	27	35	45	46	39	39
		Ft.WG	6.56	6.888	9.84	11.48	11.48	11.48	10.824	11.48
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	773×313×615	890×313×615	990×313×615	1090×313×615	1170×313×615	1470×313×615	1605×313×615	1710×313×615
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	38/44.5
Connection pipe	Water inlet & outlet (inner groove)	inch(mm)	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"
	Condensed water drain (outer groove)	inch(mm)	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"
Loading quantity	40°GP/40°HQ	unit	318/424	273/364	255/340	225/300	210/280	168/224	135/204	138/184
Optional	Wired remote control	-	Luxury wired controller:WK-010PA-K/LCD controller:WK-110PA0							

Note: This parameter is obtained based on the test standard of Eurovent and under 0Pa static pressure with circle bellows & filter.

2 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	2.45/3.4	3.7/4.7	4.55/5.7	5.4/6.35	6.35/7.55	8.30/9.90	10.0/11.5	10.2/11.9
Power system	Type	V/Ph/Hz	220-240V ~ 50Hz							
	Input	W	45	66	71	90	113	169	186	216
Water system	Water flow volume	l/s	0.12	0.18	0.22	0.26	0.30	0.40	0.48	0.49
	Pressure drop(cooling)	kPa	8	15	24	35	56	17	32	31
		Ft.WG	2.30	4.92	7.87	11.48	18.37	5.58	10.50	10.17
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	900×275×610	1030×275×610	1150×275×610	1230×275×610	1390×275×610	1780×275×610	1940×275×610	1940×275×610
Net weight/Gross weight		kg	19/22.5	22.5/27	25/29.5	27/31.5	30.5/35	43.5/48.5	47/53	47/53
Connection pipe	Water inlet & outlet (inner groove)	inch(mm)	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"
	Condensed water drain (outer groove)	inch(mm)	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"
Loading quantity		40°GP/40°HQ	unit	321/428	270/360	252/336	271/317	198/264	156/208	144/192
Optional	Wired remote control	-	Luxury wired controller:WK-010PA-K/LCD controller:WK-110PA0							

2 Pipes/4 Rows Type

Model			FP-34WAHF/BHL-K	FP-51WAHF/BHL-K	FP-68WAHF/BHL-K	FP-85WAHF/BHL-K	FP-102WAHF/BHL-K	FP-136WAHF/BHL-K	FP-170WAHF/BHL-K	FP-204WAHF/BHL-K	
Air flow volume(H/M/L)			m³/h	430/323/215	640/480/320	740/555/370	870/653/435	1040/780/520	1600/1200/800	1980/1485/990	2100/1575/1050
			CFM	253/190/126	376/282/188	435/326/218	512/384/256	612/459/306	941/706/471	1165/874/582	1235/926/618
ESP			Pa	0	0	0	0	0	0	0	
Capacity	Cooling/Heating	kW	2.65/3.10	3.80/4.40	5.00/5.45	5.7/6.15	7.10/7.30	8.90/9.50	11.00/12.3	11.20/13	
Power system	Type	V/Ph/Hz	220-240V ~ 50Hz								
	Input	W	45	66	71	84	113	169	186	216	
Water system	Water flow volume	l/s	0.13	0.18	0.24	0.27	0.34	0.43	0.53	0.54	
	Pressure drop(cooling)	kPa	8	9	18	21	41	21	32	34	
		Ft.WG	1.64	2.95	5.90	6.89	13.45	6.89	10.50	11.15	
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	900×275×610	1030×275×610	1150×275×610	1230×275×610	
	Package	mm	1371×510×245	1761×510×245	1921×510×245	1921×510×245	1390×275×610	1780×275×610	1940×275×610	1940×275×610	
Net weight/Gross weight		kg	19/22.5	22.5/27	25/29.5	27/31.5	30.5/35	43.5/48.5	47/53	47/53	
Connection pipe	Water inlet & outlet (inner groove)	inch(mm)	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	
	Condensed water drain (outer groove)	inch(mm)	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	
Loading quantity		unit	321/428	270/360	252/336	271/317	198/264	156/208	144/192	144/192	
Optional	Wired remote control	-	Luxury wired controller:WK-010PA-K/LCD controller:WK-110PA0								

Note: This parameter is obtained based on the test standard of Eurovent and under 0Pa static pressure with circle bellows & filter.

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

- » Thanks to optimized air flue design that 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.



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

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	680/560/460	800/665/590	940/770/670	1090/860
		CFM	300/235/176	400/330/270	470/385/347	553/453/394	641/506/447
Capacity	Cooling/Heating	kW	2.75/3.4	3.3/3.8	4.5/5.4	5.0/6.1	6.0/6.9
Power system	Type	V/Ph/Hz	220-240V ~ 50Hz	220-240V ~ 50Hz	220-240V ~ 50Hz	220-240V ~ 50Hz	220-240V ~ 50Hz
	Input	W	73	73	81	110	100.00
Water system	Water flow volume	l/s	0.13	0.18	0.22	0.24	0.29
	Pressure drop	kPa	30	30	27	34	21.00
		Ft.WG	9.84	9.84	8.86	11.15	6.89
Sound pressure level		dB(A)	46	46	39	49	43.00
Body	Dimension (W×D×H)	Outline	mm	664×594×292	664×594×292	840×840×190	840×840×240
		Package	mm	776×730×285	776×730×285	960×960×257	960×960×310
	Net weight/Gross weight		kg	20/24	20/24	25/33	27/35
Panel	Dimension (W×D×H)	Outline	mm	670x670×25	670x670×25	950×950×85	950×950×85
		Package	mm	670x670x60	670x670x60	1030×1030×118	1030×1030×118
	Net weight/Gross weight		kg	7/11	7/11	7/11	7/11
Connection pipe size	Water inlet & outlet	inch(mm)	3/4'	3/4'	3/4'	3/4'	3/4'
	Condensed water drain	mm	25	25	33	33	33
Loading quantity	40'GP/40'HQ	unit	329/376	329/376	131/147	131/147	117/133
Standard controller	Wiredless remote	-	YB1FA (X-FAN)	YB1FA (X-FAN)	YB1FA (X-FAN)	YB1FA (X-FAN)	YB1FA (X-FAN)
Optional controller	Wired remote	-	Z4E351B	Z4E351B	Z4E351B	Z4E351B	Z4E351B

Model			FP-140XD/B-T (E)	FP-160XD/B-T (E)	FP-180XD/B-T (E)
Air flow volume(H/M/L)		m³/h	1400/1160/1000	1500/1200/1000	1640/1360/1200
		CFM	823/682/588	882/706/588	964/800/706
Capacity	Cooling/Heating	kW	7.4/8.4	8.4/9.0	9.5/10.05
Power system	Type	V/Ph/Hz	220-240V ~ 50Hz	220-240V ~ 50Hz	220-240V ~ 50Hz
	Input	W	143	152	160
Water system	Water flow volume	l/s	0.35	0.40	0.45
	Pressure drop	kPa	30	30	33
		Ft.WG	9.84	9.84	10.82
Sound pressure level		dB(A)	50	51	50
Body	Dimension (W×D×H)	Outline	mm	840×840×240	840×840×320
		Package	mm	960×960×310	960×960×394
	Net weight/Gross weight		kg	27/35	32/41
Panel	Dimension (W×D×H)	Outline	mm	950×950×85	950×950×85
		Package	mm	1030×1030×118	1030×1030×118
	Net weight/Gross weight		kg	7/11	7/11
Connection pipe size	Water inlet & outlet	inch(mm)	3/4'	3/4'	3/4'
	Condensed water drain	inch(mm)	33	33	33
Loading quantity	40'GP/40'HQ	unit	117/133	117/133	98/112
Standard controller	Wiredless remote	-	YB1FA (X-FAN)	YB1FA(X-FAN)	YB1FA(X-FAN)
Optional controller	Wired remote	-	Z4E351B	Z4E351B	Z4E351B

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	680/510/340	850/665/590	1250/940/760	1700/1360/1200
		CFM	400/300/200	500/390/347	641/552/447	1000/800/706
Capacity	Cooling/Heating	kW	3.5/5.8	4.5/6.8	6.0/9.2	8.0/12.0
Power system	Type	V/Ph/Hz	220-240V ~ 50Hz	220-240V ~ 50Hz	220-240V ~ 50Hz	220-240V ~ 50Hz
	Input	W	82	90	135	191
Water system	Water flow volume	l/s	0.16	0.21	0.28	0.34
	Pressure drop(cooling)	kPa	44	33	41	48
		Ft.WG	14.45	17.38	13.45	15.74
Sound pressure level		dB(A)	39	40	27	50
Body	Dimension (W×D×H)	Outline	mm	840×840×190	840×840×240	840×840×320
		Package	mm	960×960×257	960×960×310	960×960×394
	Net weight/Gross weight		kg	25/33	27/35	32/41
Panel	Dimension (W×D×H)	Outline	mm	950×950×85	950×950×85	950×950×85
		Package	mm	1030×1030×118	1030×1030×118	1030×1030×118
	Net weight/Gross weight		kg	7/11	7/11	7/11
Connection pipe size	Water inlet & outlet	inch(mm)	3/4"	3/4"	3/4"	3/4"
	Condensed water drain	inch(mm)	33	33	33	33
Loading quantity	40'GP/40'HQ	unit	131/147	131/147	117/133	98/112
Standard controller	Wiredless remote	-	YB1FA (X-FAN)	YB1FA (X-FAN)	YB1FA (X-FAN)	YB1FA (X-FAN)
Optional controller	Wired remote	-	Z4E351B	Z4E351B	Z4E351B	Z4E351B

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.
-

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

2 Pipes

Model			FP-34BA2/D-K (E)	FP-51BA2/D-K (E)	FP-68BA2/D-K (E)	FP-85BA2/D-K (E)
Air flow volume(H/M/L)		m³/h	360/320/280	550/410/360	680/590/530	850/700/600
		CFM	212/189/166	324/243/216	400/348/311	500/411/352
Capacity	Cooling	kW	2	2.5	3.6	4
	Heating	kW	2.3	2.8	4.1	4.5
Power system	Type	V/Ph/Hz	220-240V ~ 50Hz	220-240V ~ 50Hz	220-240V ~ 50Hz	220-240V ~ 50Hz
	Input	W	50	50	60	66
Water system	Water flow volume	l/s	0.10	0.12	0.17	0.19
	Pressure drop	kPa	18	25	52	60
		Ft.WG	5.90	8.20	17.06	19.68
Sound prssure level		dB(A)	35	40	43	48
Dimension (W×D×H)	Outline	mm	845×180×275	845×180×275	940×200×298	940×200×298
	Pressure drop	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
Connection pipe	Water inlet & outlet	inch(mm)	Φ1/2(12.7)	Φ1/2(12.7)	Φ1/2(12.7)	Φ1/2(12.7)
	Condensed water drain	inch(mm)	Φ5/8(15.6)	Φ5/8(15.6)	Φ5/8(15.6)	Φ5/8(15.6)
Loading quantity	40'GP/40'HQ	unit	765/850	765/850	595/671	595/671
Standard controller	Wiredless remote	-	YB1FA(XFAN)	YB1FA(XFAN)	YB1FA(XFAN)	YB1FA(XFAN)
Optional controller	Wired remote	-	Z4E351B	Z4E351B	Z4E351B	Z4E351B

Model			FP-34BA3/B-K	FP-51BA3/B-K	FP-68BA3/B-K	FP-85BA3/B-K
Air flow volume(H/M/L)		m³/h	360/322/282	510/413/367	680/591/532	830/708/616
		CFM	212/189/166	300/243/216	400/348/313	488/417/363
Capacity	Cooling	kW	1.85	2.65	3.5	4.55
	Heating	kW	2.45	3.05	3.85	4.8
Power system	Type	V/Ph/Hz	220-240V ~ 50Hz	220-240V ~ 50Hz	220-240V ~ 50Hz	220-240V ~ 50Hz
	Input	W	30	30	40	60
Water system	Water flow volume	l/s	0.11	0.13	0.17	0.19
	Pressure drop	kPa	13	25	40	65
		Ft.WG	4.26	8.20	13.11	21.31
Sound prssure level		dB(A)	35	40	43	48
Dimension (W×D×H)	Outline	mm	845×180×275	845×180×275	940×200×298	940×200×298
	Pressure drop	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
Connection pipe	Water inlet & outlet	inch(mm)	Φ1/2(12.7)	Φ1/2(12.7)	Φ1/2(12.7)	Φ1/2(12.7)
	Condensed water drain	inch(mm)	Φ5/8(15.6)	Φ5/8(15.6)	Φ5/8(15.6)	Φ5/8(15.6)
Loading quantity	40'GP/40'HQ	unit	765/850	765/850	595/671	595/671
Standard controller	Wiredless remote	-	-	-	-	-
Optional controller	Wired remote	-	-	-	-	-

LOMO

Model			FPD-34BB4/A-K	FPD-51BB4/A-K	FPD-68BB4/A-K	FPD-85BB4/A-K
Air flow volume	High	m³/h	340	510	680	850
	Medium	m³/h	255	382	510	637
	Low	m³/h	170	255	340	425
ESP		Pa	0	0	0	0
Capacity	cooling	kW	2.2	2.7	3.6	4.3
	heating	kW	2.4	2.9	3.9	4.7
Power system	Type	V/Ph/Hz	230V~ 50Hz	230V~ 50Hz	230V~ 50Hz	230V~ 50Hz
	Input	W	12	18	29	43
Water system	Water flow volume	l/s	0.11	0.14	0.18	0.21
	Pressure drop	kPa	18	28	43	47.3
		Ft-WG	5.9	9.18	14.1	15.51
Sound pressure level		dB(A)	31	37	43	48
Connection pipe	Water inlet & outlet	inch(mm)	Φ1/2(12.7)	Φ1/2(12.7)	Φ1/2(12.7)	Φ1/2(12.7)
	Condensed water drain	inch(mm)	Φ3/4(15.6)	Φ3/4(15.6)	Φ3/4(15.6)	Φ3/4(15.6)
Dimension (W×D×H)	Outline	mm	845×289×209	845×289×209	845×289×209	970×300×224
	Package	mm	970×360×280	970×360×280	970×360×280	1090×305×380
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	unit	604/682	604/682	604/682	461/525
Standard	Wiredless remote controller	-	YAP1F	YAP1F	YAP1F	YAP1F

Air Curtain

The air curtain adopts cross flow blower to generate high speed air flow downward, that be installed upward side of the entrance door or window, to isolate the indoor air from the outdoor air and reduce the loss of indoor cool air, also prevent the 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 controlling 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.
- 》 Good strength structure provides powerful airflow.
- 》 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
Power supply	V/Hz		220-240/50	220-240/50
Power input	W		110	140
Air flow volume	m³/h		1200	1650
Sound pressure level (H/L)	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 /Gross weight	kg		16/18	20/22
Loading quantity	40'GP	unit	848	660
	40'HQ	unit	954	746
Setting height	m		2.3~3	2.3~3
Standard	Wired remote controller		ZY611 (MC)	ZY611 (MC)

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

Control System Lineup

Product series			Cassette type	Floor ceiling type	Wall mounted type	Air curtain
						
Wireless remote controller	YB1FA		●	●	●	
	ZY611 (MC)					●
Mechanical FCU controller		Z54352A1				
Long-distance monitoring software	Gree AC Eudemon 2009*2	FE30-00/A(M)		○	○	
BMS accessories	Communication module (modbus)	ME30-17/E2(M)		○	○	
		DQ34*3				
		ZJ0212			○	
Other modules	Optoelectronic isolated converter	RS232-RS422/485		○	○	
	Optoelectronic isolated signal multiplier	RS-422/485			○	

Notes:
● means standard, ○ means optional.
*1 The pictures of unit and wireless remote controller please refer to the actual product.
*2 If long-distance monitoring software Gree Eudemon 2009 is selected, the communication module ME30-17/E2(M) shall be selected also. The selection shall refer to actual models.
*3 DQ34 including wired remote controller Z4E351B and Communication module ZJ0212, so if DQ34 is selected, the wired remote controller Z54352A1 is not necessary to select. ME30-17/E2(M) is not necessary also.

SPECIALIZED AC



Marine Air Conditioner

Marine Air Conditioner

R410A

It is a kind of sea water source AC that is widely used in yachts and boats.



Display Panel
Z5A35



Golden fin
heat exchanger



Inner groove
copper



Washable filter



Self-diagnosis



Memory function



Compact design



°C /°F switch

- » 360 degree air blowing.
- » Outlay electric box for easy installation & maintenance.
- » Low start-up current thanks to power delay control design.
- » LED display of operation status.
- » Highly anti-corrosion special spray processing on the complete unit.
- » Nickel-Copper coaxial heat exchanger for sea water side.
- » Golden anti-corrosive finned tube heat exchanger.
- » Only one PCB for the entire control and minimize cable connections, with higher reliability and also easier maintenance.
- » Universal for both 50Hz and 60Hz.



Model			CYR5/NaC-T*		CYR9/NaC-T*		CYR12/Na-T*	
Capacity	Cooling	kW	1.10	1.30	2.10	2.35	3.10	3.50
		Btu/h	3700	4400	7100	8000	10500	11900
	Heating	kW	1.40	1.50	2.20	2.45	3.20	3.60
		Btu/h	4800	5100	7500	8400	10900	12200
EER/COP		W/W	1.96/2.64	2.24/2.73	2.33/2.50	2.55/2.85	2.82/2.91	2.92/3.27
Power supply		V/Ph/Hz	220-240V ~ 50Hz	230V ~ 60Hz	220-240V ~ 50Hz	230V ~ 60Hz	220-240V ~ 50Hz	230V ~ 60Hz
Power input	Cooling	kW	0.56	0.58	0.90	0.92	1.10	1.20
	Heating	kW	0.53	0.55	0.88	0.86	1.10	1.10
Input current	Cooling	A	3.50	2.70	4.90	4.00	6.10	5.30
	Heating	A	3.40	2.50	4.80	3.90	6.00	4.90
Sound pressure level		dB(A)	58	58	58	58	58	58
Refrigerant charge volume		kg	0.32	0.32	0.34	0.34	0.53	0.53
Air flow volume (H)		CFM	188	188	265	265	274	324
		m³/h	320	320	450	450	466	550
Dimension (W×D×H)	Outline	mm	285×408×295	285×408×295	380×408×310	380×408×310	380×420×330	380×420×330
	Package	mm	493×594×355	493×594×355	513×683×340	513×683×340	533×608×375	533×608×375
Net weight/Gross weight		kg	25.5/30.0	25.5/30.0	28.0/33.0	28.0/33.0	33.0/38.0	33.0/38.0
Condenser pipe		mm	22.2	22.2	22.2	22.2	22.2	22.2
Loading quantity	40'GP	unit	552	552	444	444	492	492
	40'HQ	unit	644	644	518	518	572	572
Fan motor supply air outlet diameter		inch(mm)	3.6(91.5)	3.6(91.5)	3.6(91.5)	3.6(91.5)	4.7(119.4)	4.7(119.4)

Model			CYR16/Na-T*		CYR24/NaC-T**	
Capacity	Cooling	kW	3.20	3.50	6.40	7.50
		Btu/h	10900	11900	21800	25600
	Heating	kW	4.00	4.40	6.65	7.60
		Btu/h	13600	15000	22700	25900
EER/COP		W/W	2.67/3.08	2.41/2.93	4.41/3.80	4.17/3.62
Power supply		V/Ph/Hz	220-240V ~ 50Hz	230V ~ 60Hz	220-240V ~ 50Hz	230V ~ 60Hz
Power input	Cooling	kW	1.20	1.45	1.45	1.80
	Heating	kW	1.30	1.50	1.75	2.10
Input current	Cooling	A	6.00	6.20	6.80	8.00
	Heating	A	6.10	6.30	8.20	9.30
Sound pressure level		dB(A)	62	62	60	60
Refrigerant charge volume		kg	0.46	0.46	0.95	0.95
Air flow volume (H)		CFM	348	406	560	650
		m³/h	590	690	951	1104
Dimension (W×D×H)	Outline	mm	450×454×330	450×454×330	620×540×385	620×540×385
	Package	mm	558×663×375	558×663×375	638×853×440	638×853×440
Net weight/Gross weight		kg	37.5/43.5	37.5/43.5	60.5/68.0	60.5/68.0
Condenser pipe		mm	25.4	25.4	25.4	25.4
Loading quantity	40'GP	unit	426	426	225	225
	40'HQ	unit	495	495	270	270
Fan motor supply air outlet diameter		inch(mm)	4.7(119.4)	4.7(119.4)	4.7(119.4)	4.7(119.4)

Notes:
*: Test condition for cooling: temperature of dry/wet bulb at air inlet: 27/19.5 °C ; water inlet/outlet temperature: 32/36 °C ; static pressure: 20Pa;
Test condition for heating: temperature of dry/wet bulb at air inlet: 22/- °C ; water inlet temperature: 15 °C ; water flow is same as that for cooling; static pressure: 20Pa.
**: Test condition for heating: temperature of dry/wet bulb at air inlet: 27/19.5 °C ; water inlet/outlet temperature: 30/35 °C ; static pressure: 0Pa;
Test condition for heating: temperature of dry/wet bulb at air inlet: 20/15 °C ; water inlet temperature: 15 °C ; water flow is same as that for cooling; static pressure: 0Pa.

Reference Projects



Mordovia Arena
Water-cooled Screw Chiller; Fan Coils
Russia



Sochi More-Mall
Centrifugal Chiller
Russia



Mir Kino Cinema
Duct
Russia



Expo 2015
GMV4; GMV5
Italy



Wymondham Leisure Centre
GMV5 Heat Recovery
UK



Buha
Versati
Serbia



Sketch
GMV5; U-match Split Systems
UK



Trattoria Restaurant
U-Match; Duct
France

Reference Projects Lineup

Country	Project Name	Installed Series
Philippine	Tosot Philippines Corporation	GMV5 PV
Iran	Tehran University	PV Inverter Centrifugal Chiller
Macedonia	Nikob Cash Center Skopje	GMV5 PV
Thailand	7-11 Store	GMV5 PV
Italy	Expo 2015	GMV4; GMV5
Brazil	2016 Rio de Janeiro Olympics Games	GMV4; GMV4 Mini; Free Match; Splits
Bulgaria	G. Asparuhov Stadium	GMV 4; Cassette IDU
Russia	Mordovia Arena	Water-cooled Screw Chiller; Fan Coils
Malawi	National Stadium	GMV5 Duct System
South Africa	2010 South Africa FIFA World Cup	Water-cooled Packaged Unit
Angola	2010 Africa Cup of Nations	Digital D4 (Modular Digital VRF); Duct Split Unit
Russia	Sochi More-Mall	Centrifugal Chiller
India	Bicon Headquarter Building	Water-cooled Screw Chiller; Air-cooled Screw Chiller
France	Trattoria Restaurant	U-Match; Duct
UK	Wymondham Leisure Centre	GMV5 Heat Recovery
UK	Sketch	GMV5; U-match Split Systems
Russia	Mir Kino Cinema	Duct
Myanmar	Grand Hantha International Hospital	Inverter Centrifugal Chiller; AHU; Fan Coil
Sudan	Ministry of Finance	GMV5
Cuba	CECMED National Pharmacy Laboratory	Water-cooled Screw Chiller; Hydronic Air Handling Unit; Fan Coil Unit
Malta	ST James Hospital	Air-cooled Scroll Chiller (C Series); Mini Chiller
Bulgaria	Sliven Town Library	Air-cooled Scroll Chiller
Senegal	Grande Mosquee De Touba	Water-cooled Package Unit
Brazil	Farroupilha Porto Alegre School	GMV4
UK	Richmond upon Thames College	GMV5
Russia	Uralzheldorproekt Institute	GMV
Sudan	National University Sudan	GMV4 DC Inverter
Serbia	Student Dormitory in Novi Sad	Modular Air-cooled Screw Chiller
Panama	Panama De Universidad Technology	DC Inverter GMV
Bahrain	IBN School	Rooftop Package Unit
Cyprus	Lancashire University	DC Inverter GMV
UK	Persimmon Homes HQ	GMV5 Heat Recovery
Russia	AVM-Orsetto Business Center	GMV
Indonesia	Oppo and J & T Office Tower-Landmark Puit	GMV5 Duct System; GMV5 Fresh Air System; AC Elevator; Air Curtain
Indonesia	Satoria Tower	GMV5; GMV5 Duct Type; Split Wall Mounted
Oman	Al Habsi	GMV5
Oman	Raha Towers	GMV5 Compact
Bahrain	Millennium Tower	Fan Coil Unit
Oman	Trading Building	Air Cooled Screw Chiller
Costarica	Ins Call Center	DC Inverter GMV
Russia	Green Park Commercial Center	DC Inverter GMV
Croatia	FINA Rijeka	Air-cooled Scroll Chiller (C Series)
Lebanon	CUBIC Commercial Center	GMV5
Palestine	Ministry of Foreign Affairs	DC Inverter GMV
Pakistan	Al Tijara Building	DC Inverter GMV
Serbia	Buha	Versati
Indonesia	Sudirman Suites	Centrifugal Chiller; Concealed Ceiling Type; AHU; Duct Type; Wall Mounted Unit
Sri Lanka	Astoria	GMV5; Duct Type
Myanmar	Golden City	GMV5; Duct Type
Australia	Subi Strand	GMV5 Mini
Australia	Toccatà	GMV5 Mini
Australia	Linq	GMV5 Mini
Australia	Unison	GMV5
Oman	ERA Real Estate	GMV5
Iraq	NawRoz City-500 Luxury Apartment	Super Free Match

Country	Project Name	Installed Series
Iraq	Lebanese Village	DC Inverter GMV; U-Match; Super Free Match; Air Cooled Screw Chiller
Iraq	New Eskin Project	Super Free Match
Bulgaria	Private House, Markovo Village	Mini Chiller
Lebanon	Conad Supermarket	U-match (Inverter Series)
America	Charter Court Apartments	TMV5
Russia	Mechta Shopping Mall	U-Match
Russia	Krasnaya Pakhra Recreation Center	GMV
Philippine	Unitop Tagegarao	Water-cooled Screw Chiller
Philippine	One Mall	Centrifugal Chiller; Water-cooled Screw Chiller; AHU
Myanmar	Time City	DC Inverter Centrifugal Chiller
Mauritius	Grand Bay La Croisette	GMV4
Angola	Uleno Center Glakeni	GMV5
Oman	Centrepont Mall	GMV5 Compact
Oman	Nawaras Commercial Centre	High-efficiency Air-cooled Screw Chiller; Terminal; GMV5; Rooftop
Russia	Tools Shop	U-Match
India	Tanishq Flag Store	DC Inverter GMV
Palestine	Palestinian Trade Tower	DC Inverter GMV
Indonesia	Grand Mercure & Ibis Hotel Yogyakarta	High-efficiency Modular Air-cooled Screw Chiller
Philippine	Sunlight Hotel Coron	GMV5
Philippine	Sunshine Island Hotel	GMV5; Duct Type
Thailand	Harbour View Residence Hotel	GMV5
Mauritius	Heritage Le Telfair Hotel	GMV5 Duct System
Qatar	Hilton Garden Inn	Fan Coil Unit
Yemen	Al-Bustan	DC Inverter GMV
Cyprus	Limassol Hotel	Free Match
Bulgaria	Alen Mak Hotel	Air-cooled Scroll Chiller
Bulgaria	Sana 1 Hotel	DC Inverter GMV
Greece	Samos Bay Hotel	DC Inverter GMV
Indonesia	Ibis Budget Hotell	Heat pump Water Heater; Split Wall Mounted; U-Match Split Duct
Brazil	Compal Factory	Modular Air-cooled Scroll Chiller
Russia	MLP-Podolsk Logistic Center	GMV
Russia	IEK Warehouse	GMV
China	Top Giga Material TGHQ	CVE Series Permanent Magnet Synchronous Inverter Centrifugal Chiller
Brazil	XCMG Brasil	DC Inverter GMV
Russia	Aircraft Plant	U-Match

Award and Certification



ISO 9001 Quality System Certificate



ISO 14001 Environment Management System Certificate



ISO 18001 Occupation Healthy Safety System Certificate



Canadian CSA Certificate



German TUV Certificate



3C Certificate



European Communities CE Certificate



American UL Certificate



Russian Safety Certificate



EQM



SASO Certificate



Mexico NOM Safety Certificate



German GS Certificate



European EMC Certificate



Argentina Safe Certificate



China EMC Certificate



Hongkong Energy-saving Certificate



Hongkong Safety Certificate



Australian SAA Safe Certificate



Australia SAA Certificate



CQC Certificate



America ETL Certificate



Canadian ETL Certificate



Thailand TIS Certificate