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Note:

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

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

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Distributor information



CAC
T1 50/60Hz
R32/R410A/R134a

MADE IN CHINA
LOVED BY THE WORLD



Gree Electric Appliances, Inc. of Zhuhai, founded in 1991, is a diversified international industrial group, whose business covers residential air conditioners, central air conditioners, intelligent equipments, home appliances, air source water heaters, smart phones, refrigerators, etc.

- Since 2005, Gree has topped No.1 in production and sales volume of residential air conditioners for 13 consecutive years.
- 2015, Gree's sales revenue exceeded 15.08 billion USD.
- 2016, sales revenue exceeded 16.51 billion USD.
- 2017, 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 has paid some 14.26 billion USD in total tax, being the No.1 in terms of tax payment in the Chinese home appliances industry for 16 consecutive years.

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 5.5 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 an air conditioning enterprise of some hundred year's standing, to create a better life for humankind.



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TERMINAL

- 113 Fan Coil Unit
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- 129 Marine Air Conditioner

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.





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.




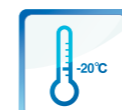


Comfortable & Healthy

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






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.

Control

- 
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, it 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

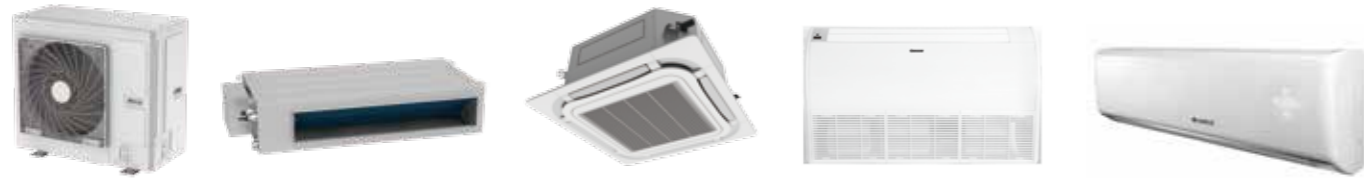
LIGHT COMMERCIAL AC

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.



- 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°C(DB)~48°C(DB), and heating operation range is from -20°C(DB)~24°C(DB).
- Smart control including APP control, long-distance control and centralized control.
- Dual unit backup function. If one unit breaks down, the backup unit can start operation at once; if one unit cannot afford the demand, the backup unit can start working to supplement the output.



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 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 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 A++ in cooling season and A+ in heating season.

Wall-mounted

- DC motor, energy-saving and high efficiency.
- Energy efficiency can be up 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(°C)	WB(°C)	DB(°C)	WB(°C)	DB(°C)	DB(°C)	WB(°C)	
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)	GUD85P/A-T (GUD85PS/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				
Wall-mounted	Model	-	-	GUD71G/A-T	GUD100G/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				
Floor standing	Model	GUD100L/A-T	GUD125L/A-T	GUD140L/A-T	-	
	Picture	-		-	-	

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	
		Btu/h	45700	45700	45700	45700	
	Heating	kW	15.50	15.50	15.50	16	
		Btu/h	52800	52800	52800	55000	
SEER/SCOP		-	6.1/3.6	6.1/3.6	6.1/3.6	6.1/4.0	
Energy efficiency grade (Cooling/Heating)		-	A++/A	A++/A	A++/A	A++/A	
Power supply		V-Hz-Ph	220-240/208-230-50/60-1	220-240/208-230-50/60-1	220-240/208-230-50/60-1	220-240/208-230-50/60-1	
Power input	Cooling	kW	4.45	4.45	4.65	4.40	
	Heating	kW	4.60	4.60	4.35	4.35	
Current input	Cooling	A	19.90	19.90	20.8	19.50	
	Heating	A	20.40	20.40	19.5	19.40	
Refrigerant charge volume		kg	2.80	2.80	2.80	2.80	
Loading quantity	40'GP/40'HQ	set	47/53	47/53	56/56	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	-	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
	Dimension (WxDxH)	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 (WxDxH)	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/-/-	
	Dimension (WxDxH)	Outline	mm	940×460×820	940×460×820	940×460×820	
		Package	mm	1083×573×973	1083×573×973	1083×573×973	
Net weight/Gross weight		kg	95/107	95/107	95.0/107.0		
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	30/75	30/75	

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	
Energy efficiency grade (Cooling/Heating)		-	A+/A	A+/A	A++/A+	
Power supply		V-Hz-Ph	380-415-50/60-3	380-415-50/60-3	380-415-50/60-3	
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	
Loading quantity	40'GP/40'HQ	set	47/53	47/53	56/56	
Indoor unit	Air flow volume(SH/H/M/L)		CFM	1295/1177/1018/877	1295/1177/1018/877	1118/995/871/671
			m³/h	2200/2000/1730/1490	2200/2000/1730/1490	1900/1690/1480/1140
	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
	Dimension (WxDxH)	Outline	mm	1400×700×300	1400×700×300	840×840×290
		Package	mm	1601×813×365	1601×813×365	963×963×379
	Net weight/Gross weight		kg	49.0/55.0	50.0/56.0	36.0/44.0
Panel	Dimension (WxDxH)	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/-/-	
	Dimension (WxDxH)	Outline	mm	940×460×820	940×460×820	
		Package	mm	1083×573×973	1083×573×973	
Net weight/Gross weight		kg	99.0/111.0	99.0/111.0		
Connecting pipe	Outdoor diameter	Liquid	inch	3/8"	3/8"	
		Gas	inch	5/8"	5/8"	
	Max. distance		Height/Length	m	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		GUD160W/NhA-X			
	Indoor Unit	Duct		Cassette	Floor Ceiling	
		GUD160PH/A-T	GUD160PHS/A-T	GUD160T/A-T	GUD160ZD/A-T	
Capacity	Cooling	kW	16.00	16.00	14.50	16.00
		Btu/h	54500	54500	49400	54500
	Heating	kW	17.00	17.00	17.00	17.00
		Btu/h	58000	58000	58000	58000
SEER/SCOP		-	6.1/3.8	6.1/3.8	6.1/3.8	
Energy efficiency grade (Cooling/Heating)		-	A++/A	A++/A	A++/A	
Power supply		V-Hz-Ph	380-415-50/60-3	380-415-50/60-3	380-415-50/60-3	
Power input	Cooling	kW	5.45	5.45	5.20	5.40
	Heating	kW	5.00	5.00	4.80	5.40
Current input	Cooling	A	7.70	7.70	7.60	7.70
	Heating	A	7.30	7.30	7.20	7.60
Refrigerant charge volume		kg	3.60	3.60	3.60	
Loading quantity	40'GP/40'HQ	set	43/47	43/47	52/55	
Indoor unit	Air flow volume(SH/H/M/L)		CFM	1412/1153/983/812	1412/1153/983/812	1177/1106/953/842
			m³/h	2400/1960/1670/1380	2400/1960/1670/1380	2000/1880/1620/1430
	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	54/52/50/48
	Dimension (WxDxH)	Outline	mm	1400×700×300	1400×700×300	840×840×290
		Package	mm	1678×808×365	1678×808×365	963×963×379
Net weight/Gross weight		kg	56.0/63.0	57.0/64.0	36.0/44.0	
Panel	Dimension (WxDxH)	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/-/-	
	Dimension (WxDxH)	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	

Control System Lineup

Controlling system	Product series	Image	High efficiency series		
			Duct type	Cassette type	Floor ceiling type
Wireless Remote Controller	YAP1F6		○	●	●
	YAN1F1		○	○	○
	YAA1FB6(WIFI)		○	○	○
Wired Controller	XK117		●	○	○
	XK75		○	○	○
Smart zone 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/C4		○	○	○
Door Controller	MK03		○	○	○

Note: ● means standard, ○ means optional.

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.



*: 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



Wide operation range

- All DC inverter for high efficiency and energy saving.
- High static units for longer ducted runs.
- ESP reach up to 250Pa high.
- 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 (°C)	WB (°C)	DB (°C)	WB (°C)	DB (°C)
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	85303	102360	136490	
	Heating	kW	22	27.5	33	43	
		BTU/h	75060	93830	112590	146710	
EER/COP		W/W	2.56/3.14	2.66/3.09	2.65/3.08	2.58/3.09	
Power supply		Ph/V/Hz	3/380-415/(50/60)		3/380-415/(50/60)		
Power input	Cooling	kW	7.8	9.4	11.3	15.5	
		kW	7.0	8.9	10.3	13.9	
Current input	Cooling	A	13.9	16.8	20.2	27.7	
		A	12.5	15.9	19.1	24.9	
Refrigerant charge volume		kg	6.4	8.0	9.5	6.4x2	
Indoor unit	Air flow volume	CFM	2178	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	1460×790×365	1690×870×440	1690×870×440	1680×900×650
Package		mm	1578×883×472	1788×988×580	1788×988×580	1893×1123×850	
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)x2
		Package	mm	1033×433×1580	1033×573×1765	1033×573×1765	(1033×433×1580)x2
	Net weight /Gross weight		kg	120/130	146/162	175/190	(120/130)x2
Connection pipe	Outer diameter	Liquid	inch(mm)	Φ3/8(9.52)	Φ3/8(9.52)	Φ1/2(12.7)	Φ3/8(9.52)
		Gas	inch(mm)	Φ3/4(19.05)	Φ7/8(22)	Φ1(25.4)	Φ3/4(19.05)
	Max. distance	Height	m	30	30	30	30
		Length	m	50	50	50	50
Loading quantity	20'GP	set	12	10	10	7	
	40'GP/40'HQ	set	24/24	20/22	20/22	18/18	

Control System Lineup

Controlling system	Model	Outlook	Big Duct Type Unit
Wired Controller	XK46		●
	XK79		○
Wireless Remote Controller	YAP1F		○
Other modules	Optoelectronic isolated converter ME40-00/B		○

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

VRF

GMV5

GMV5 Home

GMV Water

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



- 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}	1000m
Actual piping length	100m ^{*1}	120m ^{*2}	165m
Equivalent piping length	120m ^{*1}	150m ^{*2}	190m
Height difference between indoor units	10m ^{*1}	15m ^{*2}	30m
Height difference between ODU and IDU (ODU is located above the IDU)	30m ^{*1}	50m ^{*2}	90m
Height difference between ODU and IDU (IDU is located above the ODU)	30m ^{*1}	40m ^{*2}	90m
Piping length from first indoor branch to the farthest IDU	40m ^{*1}	40m ^{*2}	40m

Notes:
 *1: The value is applied to product type with 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

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 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
3	GMV-80WL/C-T	
3.5	GMV-100WL/C-T	
4	GMV-121WL/C-T	
5	GMV-141WL/C-T	

GMV5 Slim Lineup (380-415V, 50/60Hz)

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

GMV5E Lineup (380-415V-3Ph-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 50Hz&60Hz (220-240V & 208-230V)

Model			GMV-80WL/C-T	GMV-100WL/C-T	GMV-121WL/C-T
Capacity range		HP	3	3.5	4
Capacity	Cooling	kW	8	10	12.1
	Heating	kW	9	11	13
EER		WW	3.90	3.70	3.51
COP		WW	4.74	4.40	4.81
Power supply		V/Ph/Hz	220-240/1/50 & 208-230/1/60		
Max. circuit/Fuse current		A	25	25	32
Power consumption	Cooling	kW	2.05	2.7	3.45
	Heating	kW	1.9	2.5	2.7
Maximum drive IDU NO.		unit	4	5	6
Refrigerant charge volume		kg	1.8	1.8	2
Sound pressure level		dB(A)	56	56	57
Sound power level		dB(A)	68	69	70
Connecting pipe	Liquid	mm	Φ9.52	Φ9.52	Φ9.52
	Gas	mm	Φ15.9	Φ15.9	Φ15.9
Dimension(WxDxH)	Outline	mm	980×360×790	980×360×790	980×360×790
	Package	mm	1097x477x937	1097x477x937	1097x477x937
Net weight/Gross weight		kg	80/90	80/90	85/95
Loading quantity	40' GP	set	96	96	96
	40' HQ	set	96	96	96

Model			GMV-120WL/C-T	GMV-140WL/C-T	GMV-141WL/C-T	GMV-160WL/C-T
Capacity range		HP	4	5	5	6
Capacity	Cooling	kW	12.1	14	14.1	16
	Heating	kW	14	16.5	16	18
EER		WW	3.99	3.90	3.6	3.37
COP		WW	4.28	4.18	3.85	3.87
Power supply		V/Ph/Hz	220-240/1/50 & 208-230/1/60			
Max. circuit/Fuse current		A	32	40	40	40
Power consumption	Cooling	kW	3.03	3.59	3.92	4.75
	Heating	kW	3.27	3.95	4.16	4.65
Maximum drive IDU NO.		unit	7	8	8	9
Refrigerant charge volume		kg	3.3	3.3	3.3	3.3
Sound pressure level		dB(A)	57	58	58	58
Sound power level		dB(A)	68	69	73	69
Connecting pipe	Liquid	mm	Φ9.52	Φ9.52	Φ9.52	Φ9.52
	Gas	mm	Φ15.9	Φ15.9	Φ15.9	Φ19.05
Dimension(WxDxH)	Outline	mm	900×340×1345	900×340×1345	940x460x820	900×340×1345
	Package	mm	998x458x1500	998x458x1500	1023x563x973	998x458x1500
Net weight/Gross weight		kg	112/123	112/123	98/108	112/123
Loading quantity	40' GP	set	57	57	88	57
	40' HQ	set	57	57	88	57

GMV5 Mini 50Hz & 60Hz (380-415V)

Model			GMV-120WL/C-X	GMV-140WL/C-X	GMV-160WL/C-X
Capacity range	HP		4	5	6
Capacity	Cooling	kW	12.1	14	16
	Heating	kW	14	16.5	18
EER	W/W		3.99	3.90	3.37
COP	W/W		4.28	4.18	3.87
Power supply	V/Ph/Hz		380-415/3/50&380-415/3/60		
Max. circuit/Fuse current	A		16	16	16
Power consumption	Cooling	kW	3.03	3.59	4.75
	Heating	kW	3.27	3.95	4.65
Maximum drive IDU NO.	unit		7	8	9
Refrigerant charge volume	kg		3.3	3.3	3.3
Sound pressure level	dB(A)		57	58	58
Sound power level	dB(A)		68	69	69
Connecting pipe	Liquid	mm	Φ9.52	Φ9.52	Φ9.52
	Gas	mm	Φ15.9	Φ15.9	Φ19.05
Dimension(WxDxH)	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	set	57	57	57
	40' HQ	set	57	57	57

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

Model			GMV-224WL/C-X	GMV-280WL/C-X	GMV-335WL/C-X
Capacity range	HP		8	10	12
Capacity	Cooling	kW	22.4	28.0	33.5
	Heating	kW	24	30	35
EER	W/W		3.66	3.6	3.5
COP	W/W		4.9	4.9	4.9
Max. circuit/Fuse current	A		20	25	32
Power supply	V/Ph/Hz		380-415~3Ph~50/60Hz		
Power consumption	Cooling	kW	6.12	7.78	9.57
	Heating	kW	4.9	6.12	7.14
Maximum drive IDU NO.	unit		13	17	20
Refrigerant charge volume	kg		5.5	7.1	8.0
Sound pressure level	dB(A)		60	62	63
Sound power level	dB(A)		74	74	76
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	166/183	177/194
Loading quantity	40' GP	set	56	44	44
	40' HQ	set	56	44	44

GMV5E 380-415V,50/60Hz

Model			GMV-224WM/E-X	GMV-280WM/E-X	GMV-280WM/E1-X	GMV-335WM/E-X	GMV-400WM/E-X
Capacity range	HP		8	10	10	12	14
Cooling capacity	Nom.*	kW	22.4	28	28	33.5	40
	Max.	kW	25	31.5	31.5	37.5	45
Heating capacity	Nom.*	kW	25	31.5	31.5	37.5	45
	Max.	kW	25	31.5	31.5	37.5	45
EER	Nom.*	Ducted kW/kW	4.73	4.48	3.05	3.99	3.80
		Cassette kW/kW	3.27	3.05	2.66	2.80	3.03
COP	Nom.*	Ducted kW/kW	5.20	5.56	4.10	5.25	4.73
		Cassette kW/kW	3.54	3.66	3.24	3.64	3.62
Power consumption of cooling	Nom.*	Ducted kW	4.74	6.25	9.18	8.40	10.53
		Cassette kW	6.85	9.18	10.53	11.96	13.2
Power consumption of heating	Nom.*	Ducted kW	4.81	5.67	7.68	7.14	9.51
		Cassette kW	7.06	8.61	9.72	10.3	12.43
Max.		kW	4.81	5.67	7.68	7.14	9.51
		kW	4.81	5.67	7.68	7.14	9.51
Power supply	V/Ph/Hz		380-415V 3N~50/60Hz				
Max. Circuit/Fuse Current	A		16.1/20	20.9/25	20.9/25	24.7/32	28.8/40
Maximum drive IDU NO.	unit		13	16	16	19	23
Refrigerant charge volume	kg		5.9	9	6.7	8.2	9.8
Sound pressure level	Cooling dB(A)		60	61	61	63	63
Sound power level	Cooling dB(A)		85	86	85	80	86
Connecting pipe	Liquid	mm	Φ9.52	Φ9.52	Φ9.52	Φ12.7	Φ12.7
	Gas	mm	Φ19.05	Φ22.2	Φ22.2	Φ25.4	Φ25.4
	Oil balance	mm	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52
Dimension(WxDxH)	Outline	mm	930×765×1605	930×765×1605	930×765×1605	1340×765×1605	1340×765×1605
	Package	mm	1010×840×1775	1010×840×1775	1010×840×1775	1420×840×1775	1420×840×1775
Net weight/Gross weight	kg		225/235	235/245	225/235	285/300	360/375
Loading quantity	40' GP	set	24	24	24	16	16
	40' HQ	set	24	24	24	16	16

Model			GMV-450WM/E-X	GMV-450WM/E1-X	GMV-504WM/E-X	GMV-560WM/E-X	GMV-615WM/E-X
Capacity range	HP		16	16	18	20	22
Cooling capacity	Nom.*	kW	45	45	50.4	56	61.5
	Max.	kW	50	50	50.4	56	61.5
Heating capacity	Nom.*	kW	50	50	56.5	63	69
	Max.	kW	50	50	56.5	63	69
EER	Nom.*	Ducted kW/kW	3.51	3.35	3.25	3.00	2.40
		Cassette kW/kW	2.80	2.58	3.40	2.90	2.10
COP	Nom.*	Ducted kW/kW	4.60	4.20	5.50	4.60	4.50
		Cassette kW/kW	3.56	3.27	4.20	4.00	3.80
Power consumption of cooling	Nom.*	Ducted kW	12.82	13.43	15.51	18.67	25.63
		Cassette kW	16.07	17.44	14.82	19.31	29.29
Power consumption of heating	Nom.*	Ducted kW	10.87	11.90	9.16	12.17	13.67
		Cassette kW	14.04	15.29	12.00	14.00	16.18
Max.		kW	10.86	11.90	14.10	16.60	18.90
		kW	10.86	11.90	14.10	16.60	18.90
Power supply	V/Ph/Hz		380-415V 3N~50/60Hz				
Max. Circuit/Fuse Current	A		33.2/40	33.2/40	45.4/50	51.1/60	59.2/60
Maximum drive IDU NO.	unit		26	26	29	33	36
Refrigerant charge volume	kg		10.3	10.3	11.3	14.3	14.3
Sound pressure level	Cooling dB(A)		63	63	63	63	64
Sound power level	Cooling dB(A)		80	89	86	92	92
Connecting pipe	Liquid	mm	Φ12.7	Φ12.7	Φ15.9	Φ15.9	Φ15.9
	Gas	mm	Φ28.6	Φ28.6	Φ28.6	Φ28.6	Φ28.6
	Oil balance	mm	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52
Dimension(WxDxH)	Outline	mm	1340×765×1740	1340×765×1605	1340×765×1740	1340×765×1740	1340×765×1740
	Package	mm	1420×840×1910	1420×840×1775	1420×840×1910	1420×840×1910	1420×840×1910
Net weight/Gross weight	kg		360/375	360/375	360/375	385/400	385/400
Loading quantity	40' GP	set	16	16	16	16	16
	40' HQ	set	16	16	16	16	16

Note: Nom.* is based on the standard test of EN14511 and certified by EUROVENT.



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



SXD200LC JW/C1-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.



Item	Nominal operating condition(temperature)					
	Outdoor condition		Indoor condition		Water	
	DB(°C)	WB(°C)	DB(°C)	WB(°C)	Start(°C)	End(°C)
Cooling	35	24	27	19	/	/
Heating	7	6	20	15	/	/
Hot water	20	15	/	/	15	52

Operation range	Mode	Outdoor Condition(DB C)
	Cooling	-5~50
Heating	-15~24	
Water heating	-15~43	
Cooling and water heating	-5~43	
Heating and water heating	-15~24	

Outdoor Unit

Model		GMV-S120WL/A-S	GMV-S140WL/A-S	GMV-S160WL/A-S	GMV-S224W/A-X	GMV-S280W/A-X	
Capacity	Cooling	kW	12.1	14	16	22.40	28.00
	Heating	kW	14	16.5	18.5	25.00	31.50
ECOP		kW/kW	/	/	/	7.00	7.00
Power supply		V/Ph/Hz	220-240V~1Ph~50/60Hz	220-240V~1Ph~50/60Hz	220-240V~1Ph~50/60Hz	380-415V 3Ph 50/60Hz	380-415V 3Ph 50/60Hz
Refrigerant charge volume		kg	5	5	5	10.50	11.00
Rated power input	Cooling	kW	3.05	3.98	4.85	5.35	7.70
	Heating	kW	3.3	4.1	4.67	5.80	7.60
	Water Heating	kW	3.3	3.8	4.2	5.00	5.20
Airflow volume		m³/h	6000	6300	6600	14000	14000
		CFM	3531	3708	3884	8239	8239
Sound pressure level		dB(A)	55	56	58	57	58
Connecting pipe diameter	Gas	mm	Φ15.9	Φ15.9	Φ19.05	Φ19.05	Φ22.2
	Liquid	mm	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52
	Gas (high pressure)	mm	Φ12.7	Φ12.7	Φ12.7	Φ15.9	Φ15.9
Dimension (WxDxH)	Outline	mm	900x340x1345	900x340x1345	900x340x1345	1340x765x1605	1340x765x1605
	Package	mm	998x458x1500	998x458x1500	998x458x1500	1420x840x1775	1420x840x1775
Net weight/Gross weight		kg	113/123	113/123	113/123	295/310	295/310
Loading quantity	40' GP	set	57	57	57	16	16
	40' HQ	set	57	57	57	16	16

Water Tank

Model		SXVD200LCJ/A-K	SXVD300LCJ/A-K
Tank volume	L	200	300
Max. working pressure	Mpa	0.7	0.7
Auxiliary electrical heater power input	kW	3.0	3.0
Power supply	V-Ph-Hz	1Ph,220-240V,50Hz	
Dimension	Thickness(inner)	mm	1.5
	Thickness(external)	mm	50
	Outline diameter	mm	540
	Outline height	mm	1595
	Package(WxDxH)	mm	625×1620×630
Net/Gross weight	kg	68/77	82/92
Outer diameter	Circular pipe	mm	DN20
	Cold water pipe	mm	DN15
	Hot water pipe	mm	DN15
Loading quantity	40'GP/40'HQ	set	78/104

Model		SXVD200LCJ2/A-K	SXVD300LCJ2/A-K
Tank volume	L	200	300
Max. working pressure	Mpa	0.7	0.7
Auxiliary electrical heater power input	kW	3.0	3.0
Power supply	V-Ph-Hz	1Ph,220-240V,50Hz	
Dimension	Thickness(inner)	mm	1.5
	Thickness(external)	mm	50
	Outline diameter	mm	540
	Outline height	mm	1595
	Package(WxDxH)	mm	625×1620×630
Net/Gross weight	kg	71/80	87/97
Outer diameter	Circular pipe	mm	DN20
	Cold water pipe	mm	DN15
	Hot water pipe	mm	DN15
Loading quantity	40'GP/40'HQ	set	78/104

Hydro Box

Model		NRQD16G/A-S	
Heating capacity	kW	4.5(3.6-16)	
Dimension (W×D×H)	Outline	mm	
	Package	mm	
Power supply	Ph/V/Hz	1Ph 220 ~ 240V 50/60Hz	
Connecting pipe diameter	to ODU	Gas	mm
		Liquid	mm
	to water tank	Gas(High Pressure)	mm
			mm
Water pump	Type	—	
	Power input	kW	
	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	set	

Hot Water Converter

Model		NRZ16G/A-S	
Heating capacity	kW	4.5(2.8~5.6)	
Dimension (W×D×H)	Outline	mm	
	Package	mm	
Power supply	Ph/V/Hz	1Ph 220 ~ 240V 50/60Hz	
Connecting pipe diameter	to ODU	Gas	mm
		Liquid	mm
		Gas(high pressure)	mm
Net/Gross Weight	kg	8.5/13.5	
Loading quantity	40'GP	set	

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 SXD200LCJW/C1-K.

Water Tank

Model		SXD200LCJW/C1-K
Capacity	L	185
Power Supply for Electric Heater	-	220V-240V~50Hz
Input Power for Electric Heater	W	1500
Outline Dimensions(W x D x H)	mm	545×545×1919
Package Dimensions(W x D x H)	mm	2009×656×625
Water Tank Gross/Net Weight	kg	60/52
Outer Size of Connection Pipe	mm	Φ6, Φ9.52

GMV Water



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



Energy saving function



High efficiency



Quiet function



Wide voltage range



Modular operating



Comprehensive protection



Wide operation

- External energy source for water source heat pump VRF system**
 Gree self-developed water source heat pump VRF system utilizes renewable sources such as water and soil, with higher operating efficiency and lower energy consumption. The water side can be a cooling tower or boiler or the application of surface water (river water, lake water, sea water), ground water, soil heat, solar power, waste heat, waste water or other kinds of renewable sources.
- System structure of water source heat pump VRF system**
 The water source heat pump VRF system is made up of two parts. The first part is the water system that exchanges heat between outdoor units and water/soil source. The application of water source/soil source is varied and can be coordinated with constant-temperature water/soil, cooling tower or boiler. Compared with common air-cooled system, it is more energy saving and space saving. The second part is the VRF system of outdoor and indoor units, which features the advantages of flexible installation, easy construction and intelligent control. There is a variety of combinations of indoor units to cope with different applications.
- Suitable to different constructions, no influence on building appearance**
 The water source heat pump VRF system is suitable to different constructions, with no influence on building appearance. The water source heat pump VRF air conditioners do not need to exchange heat with the outdoor air, so it can be installed flexibly to coordinate with the building structure.
- No influence of weather**
 The water source heat pump VRF system exchanges heat with water or soil source through outdoor units, so it won't be affected by air temperature. In winter, when system is in heating operation, outdoor units won't get frosted or run in defrosting mode, so as to guarantee stable heating performance.
- Same as GMV5, the water source heat pump VRF system adopts CAN communication, so it can be connected with any one type of GMV5 indoor units.**



Outdoor Unit

Model			GMV-W224WM/A-X	GMV-W280WM/A-X	GMV-W335WM/A-X
Capacity	Cooling	kW	22.4	28	33.5
	Heating	kW	25	31.5	37.5
Sound pressure level		dB(A)	50	52	52
EER		W/W	5.74	4.91	4.24
COP		W/W	6.25	5.83	5.10
Power supply		Ph/V/Hz	3/380-415/50/60Hz	3/380-415/50/60Hz	3/380-415/50/60Hz
Water flow volume		m ³ /h	4.8	6	7.2
		CFM	2.83	3.53	4.236
Water flow volume		Kpa	16	24	45
Rated power input	Cooling	kW	3.9	5.7	7.9
	Heating	kW	4	5.4	7.35
Refrigerant connecting pipe	Gas	mm	Φ22.2	Φ22.2	Φ25.4
	Liquid	mm	Φ9.52	Φ9.52	Φ12.7
Water connecting pipe diameter	Inlet	mm	DN32	DN32	DN32
	Outlet	mm	DN32	DN32	DN32
Dimension(W×D×H)	Outline	mm	780x550x1000	780x550x1000	780x550x1000
	Package	mm	833x599x1160	833x599x1160	833x599x1160
Net weight/Gross weight		kg	162/175	162/175	162/175
Loading quantity	40' GP	set	108	108	108
	40' HQ	set	108	108	108

Combination of ODU

Model	Capacity		Power input		Sound pressure level Semi-anechoic dB(A)	Water flow volume m ³ /h	Min.circuit current A	Max. fuse current A	Weight kg	Dimension (W×D×H) mm	Connecting pipe size	
	Cooling kW	Heating kW	Cooling kW	Heating kW							Liquid mm	Gas mm
GMV-W448M/A-X	44.8	50.0	3.9+3.9	4.0+4.0	53	4.8+4.8	16.1+16.1	20+20	162x2	780×550×1000 (2units)	12.7	28.6
GMV-W504M/A-X	50.4	56.5	3.9+5.7	4.0+5.4	54	4.8+6.0	16.1+19.7	20+20	162x2	780×550×1000 (2units)	15.9	28.6
GMV-W560M/A-X	56.0	63.0	7.9+7.9	5.4+5.4	55	6.0+6.0	19.7+19.7	20+20	162x2	780×550×1000 (2units)	15.9	28.6
GMV-W615M/A-X	61.5	69.0	5.7+7.9	5.4+7.35	55	6.0+7.2	19.7+26.8	20+32	162x2	780×550×1000 (2units)	15.9	28.6
GMV-W670M/A-X	67.0	75.0	7.9+7.9	7.35+7.35	55	7.2+7.2	26.8+26.8	32+32	162x2	780×550×1000 (2units)	15.9	28.6
GMV-W728M/A-X	72.8	81.5	3.9+3.9+5.7	4.0+4.0+5.4	56	4.8+4.8+6.0	16.1+16.1+19.7	20+20+20	162x3	780×550×1000 (3units)	19.1	31.8
GMV-W784M/A-X	78.4	88.0	3.9+5.7+5.7	4.0+5.4+5.4	57	4.8+6.0+6.0	16.1+19.7+19.7	20+20+20	162x3	780×550×1000 (3units)	19.1	31.8
GMV-W840M/A-X	84.0	94.5	5.7+5.7+5.7	5.4+5.4+5.4	57	6.0+6.0+6.0	19.7+19.7+19.7	20+20+20	162x3	780×550×1000 (3units)	19.1	31.8
GMV-W895M/A-X	89.5	100.5	5.7+5.7+7.9	5.4+5.4+7.35	57	6.0+6.0+7.2	19.7+19.7+26.8	20+20+32	162x3	780×550×1000 (3units)	19.1	31.8
GMV-W950M/A-X	95.0	106.5	5.7+7.9+7.9	5.4+7.35+7.35	57	6.0+7.2+7.2	19.7+26.8+26.8	20+32+32	162x3	780×550×1000 (3units)	19.1	31.8
GMV-W1005M/A-X	100.5	112.5	7.9+7.9+7.9	7.35+7.35+7.35	57	7.2+7.2+7.2	26.8+26.8+26.8	32+32+32	162x3	780×550×1000 (3units)	19.1	38.1
GMV-W1064M/A-X	106.4	119.5	3.9+5.7+5.7+5.7	4.0+5.4+5.4+5.4	58	4.8+6.0+6.0+6.0	16.1+19.7+19.7+19.7	20+20+20+20	162x4	780×550×1000 (4units)	19.1	38.1
GMV-W1120M/A-X	112.0	126.0	5.7+5.7+5.7+5.7	5.4+5.4+5.4+5.4	59	6.0+6.0+6.0+6.0	19.7+19.7+19.7+19.7	20+20+20+20	162x4	780×550×1000 (4units)	19.1	38.1
GMV-W1175M/A-X	117.5	132.0	5.7+5.7+5.7+7.9	5.4+5.4+5.4+7.35	59	6.0+6.0+6.0+7.2	19.7+19.7+19.7+26.8	20+20+20+32	162x4	780×550×1000 (4units)	19.1	38.1
GMV-W1230M/A-X	123.0	138.0	5.7+5.7+7.9+7.9	5.4+5.4+7.35+7.35	59	6.0+6.0+7.2+7.2	19.7+19.7+26.8+26.8	20+20+32+32	162x4	780×550×1000 (4units)	19.1	38.1
GMV-W1285M/A-X	128.5	144.0	5.7+7.9+7.9+7.9	5.4+7.35+7.35+7.35	59	6.0+7.2+7.2+7.2	19.7+26.8+26.8+26.8	20+32+32+32	162x4	780×550×1000 (4units)	19.1	38.1
GMV-W1340M/A-X	134.0	150.0	7.9+7.9+7.9+7.9	7.35+7.35+7.35+7.35	59	7.2+7.2+7.2+7.2	26.8+26.8+26.8+26.8	32+32+32+32	162x4	780×550×1000 (4units)	19.1	38.1



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
Wide operation range	Compact design	Easier maintainability	Centralized control					

- 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
8HP	GMV-Q224WM/E-X	
10HP	GMV-Q280WM/E-X	
12HP	GMV-Q335WM/E-X	
14HP	GMV-Q400WM/E-X	
16HP	GMV-Q450WM/E-X	

Model	Product Outlook
NCHS1C	
NCHS2C	
NCHS4C	
NCHS8C	

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	kW	22.4	31.5	37.5	45	50
Heating capacity	kW	25	31.5	37.5	45	50
EER	Ducted	kW/kW	4.09	3.44	4.04	3.36
	Cassette	kW/kW	3.1	2.53	2.47	2.52
COP	Ducted	kW/kW	4.75	4.32	4.87	4.5
	Cassette	kW/kW	3.37	3.48	3.46	3.07
Power consumption of cooling	Ducted	kW	5.48	8.14	8.29	11.9
	Cassette	kW	7.23	11.07	13.56	15.87
Power consumption of heating	Ducted	kW	5.26	7.29	7.7	10
	Cassette	kW	7.42	9.05	10.84	14.66
Power supply	V/Ph/Hz	380-415V 3N~50/60Hz				
Max. Circuit/Fuse Current	A	16.3/20	20.9/25	24.7/32	28.8/40	33.2/40
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)	86	90	86	89
	Heating	dB(A)	60	61	63	63
Connecting pipe	Liquid	mm	Φ9.52	Φ9.52	Φ12.7	Φ12.7
	Gas	mm	Φ15.9	Φ19.05	Φ19.05	Φ22.2
	Oil balance	mm	Φ19.05	Φ22.2	Φ25.4	Φ25.4
Dimension(WxDxH)	Outline	mm	930×765×1605	930×765×1605	1340×765×1605	1340×765×1605
	Package	mm	1010×840×1775	1010×840×1775	1420×840×1775	1420×840×1775
Net weight/Gross weight	kg	233/243	233/243	302/317	346/361	346/361
Loading quantity	40' GP	set	24	24	16	16
	40' HQ	set	24	24	16	16

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

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 1Ph 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	Φ12.7	Φ15.9
	Gas(Low pressure)	mm	Φ22.2		Φ28.6
	Gas(High pressure)	mm	Φ15.9	Φ19.05	Φ22.2
Indoor unit piping connection	Liquid	mm	Φ9.52	Φ9.52	Φ9.52
	Gas	mm	Φ15.9	Φ15.9	Φ15.9
Dimension(WxDxH)	mm	388x302x225	468x377x225	587x399x225	987x488x225
Dimension of Package(WxDxH)	mm	805x403x305	946x646x365	1123x676x345	1524x861x315
Net Weight	kg	9	15.6	18.6	37
Gross Weight	kg	12.2	23.4	24.6	46.6

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	Power Supply	Capacity		Power Input *		Dimension(W×D×H) mm	Airflow Volume m³/h	ESP Pa	Connecting pipe diameter			Min. circuit current A	Max. fuse current A	Weight kg
		Cooling kW	Heating kW	Cooling kW	Heating kW				Liquid mm	HP Gas mm	LP Gas mm			
GMV-Q504WME-X	380-415V 3Ph 50/60Hz	50.4	56.5	13.62	12.55	(930×765×1605)×2	11400×2	82	Φ15.9	Φ25.4	Φ28.6	16.3+20.9	20 + 25	233+233
GMV-Q560WME-X		56	63.0	16.58	15.40	(930×765×1605)×2	11400×2	82	Φ15.9	Φ25.4	Φ28.6	20.9+20.9	25 + 25	233+233
GMV-Q615WME-X		61.5	69.0	16.43	14.99	(930×765×1605) + (1340×765×1605)	11400+14000	82	Φ15.9	Φ25.4	Φ28.6	20.9+24.7	25 + 32	233+302
GMV-Q680WME-X		68	76.5	20.04	17.29	(930×765×1605) + (1340×765×1605)	11400+14000	82	Φ15.9	Φ25.4	Φ28.6	20.9+28.8	25 + 40	233+346
GMV-Q730WME-X		73	81.5	22.94	19.98	(930×765×1605) + (1340×765×1605)	11400+14000	82	Φ19.05	Φ28.6	Φ31.8	20.9+33.2	25 + 40	233+346
GMV-Q785WME-X		78.5	87.5	23.09	20.39	(1340×765×1605)×2	14000×2	82	Φ19.05	Φ28.6	Φ31.8	24.7+33.2	40 + 40	302+346
GMV-Q850WME-X		85	95.0	26.70	22.69	(1340×765×1605)×2	14000×2	82	Φ19.05	Φ28.6	Φ31.8	28.8+33.2	40 + 40	346+346
GMV-Q900WME-X		90	100.0	29.60	25.38	(1340×765×1605)×2	14000×2	82	Φ19.05	Φ28.6	Φ31.8	33.2+33.2	40 + 40	346+346
GMV-Q960WME-X		96	108.0	28.18	24.58	(930×765×1605)×2 + (1340×765×1605)	11400×2+14000	82	Φ19.05	Φ28.6	Φ31.8	20.9+20.9+28.8	25 + 25 + 40	233×2+346
GMV-Q1010WME-X		101	113.0	31.08	27.27	(930×765×1605)×2 + (1340×765×1605)	11400×2+14000	82	Φ19.05	Φ31.8	Φ38.1	20.9+20.9+33.2	25 + 25 + 40	233×2+346
GMV-Q1065WME-X		106.5	119.0	31.23	27.68	(930×765×1605) + (1340×765×1605)×2	11400+14000×2	82	Φ19.05	Φ31.8	Φ38.1	20.9+24.7+33.2	25 + 40 + 40	233+302+346
GMV-Q1130WME-X		113	126.5	34.84	29.98	(930×765×1605) + (1340×765×1605)×2	11400+14000×2	82	Φ19.05	Φ31.8	Φ38.1	20.9+28.8+33.2	25 + 40 + 40	233+346×2
GMV-Q1180WME-X		118	131.5	37.74	32.67	(930×765×1605) + (1340×765×1605)×2	11400+14000×2	82	Φ19.05	Φ31.8	Φ38.1	20.9+33.2+33.2	25 + 40 + 40	233+346×2
GMV-Q1235WME-X		123.5	137.5	37.89	33.08	(1340×765×1605)×3	14000×3	82	Φ19.05	Φ31.8	Φ38.1	24.7+33.2+33.2	40 + 40 + 40	302+346×2
GMV-Q1300WME-X		130	145.0	41.50	35.38	(1340×765×1605)×3	14000×3	82	Φ19.05	Φ31.8	Φ38.1	28.8+33.2+33.2	40 + 40 + 40	346×3
GMV-Q1350WME-X		135	150.0	44.40	38.07	(1340×765×1605)×3	14000×3	82	Φ19.05	Φ31.8	Φ38.1	33.2+33.2+33.2	40 + 40 + 40	346×3
GMV-Q1410WME-X		141	158.0	42.98	37.27	(930×765×1605)×2+ (1340×765×1605)×2	11400×2+14000×2	82	Φ19.05	Φ38.1	Φ41.3	20.9+20.9+28.8+33.2	25 + 25 + 40 + 40	233×2+346×2
GMV-Q1460WME-X		146	163.0	45.88	39.96	(930×765×1605)×2+ (1340×765×1605)×2	11400×2+14000×2	82	Φ19.05	Φ38.1	Φ41.3	20.9+20.9+33.2+33.2	25 + 25 + 40 + 40	233×2+346×2
GMV-Q1515WME-X		151.5	169.0	46.03	40.37	(930×765×1605) + (1340×765×1605)×3	11400+14000×3	82	Φ19.05	Φ38.1	Φ41.3	20.9+24.7+33.2+33.2	25 + 32 + 40 + 40	233+302+346×2
GMV-Q1580WME-X		158	176.5	49.64	42.67	(930×765×1605) + (1340×765×1605)×3	11400+14000×3	82	Φ19.05	Φ38.1	Φ41.3	20.9+28.8+33.2+33.2	25 + 40 + 40 + 40	233+346×3
GMV-Q1630WME-X	163	181.5	52.54	45.36	(930×765×1605) + (1340×765×1605)×3	11400+14000×3	82	Φ19.05	Φ38.1	Φ41.3	20.9+33.2+33.2+33.2	25 + 40 + 40 + 40	233+346×3	
GMV-Q1685WME-X	168.5	187.5	52.69	45.77	(1340×765×1605)×4	14000×4	82	Φ19.05	Φ38.1	Φ41.3	24.7+33.2+33.2+33.2	32 + 40 + 40 + 40	302+346×3	
GMV-Q1750WME-X	175	195.0	56.30	48.07	(1340×765×1605)×4	14000×4	82	Φ19.05	Φ38.1	Φ41.3	28.8+33.2+33.2+33.2	40 + 40 + 40 + 40	346×4	
GMV-Q1800WME-X	180	200.0	59.20	50.76	(1340×765×1605)×4	14000×4	82	Φ19.05	Φ38.1	Φ41.3	33.2+33.2+33.2+33.2	40 + 40 + 40 + 40	346×4	

Note:
 1. The combination models of the outdoor units are not Eurovent certified.
 2. * is based on the power input of duct type unit.

Indoor Units Lineup

Specifications of Indoor Units

Type of indoor unit	Specification	22	25	28	32	36	40	45	50	56	63	71	72	80	90	100	112	125	140	160	224	250	280	450	560
High Static Pressure Duct Type Unit		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Slim Ducted Type Indoor Unit		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
4-way Cassette Unit				●		●		●	●	●	●	●		●	●	●	●	●	●	●	●	●	●	●	●
360° Air Discharge Cassette Indoor Unit				●		●		●	●	●	●	●		●	●	●	●	●	●	●	●	●	●	●	●
Compact 4-way Cassette Indoor Unit		●		●		●		●	●	●															
360° Air Discharge Compact Cassette Indoor Unit		●		●		●		●	●	●															
2-way Cassette Indoor Unit				●		●		●	●	●	●	●													
1-way Cassette Unit		●		●		●		●	●	●															
Wall-mounted Type Unit		●		●		●		●	●	●	●	●		●	●	●									
Floor Ceiling Type Indoor Unit				●		●		●	●	●	●	●		●	●	●	●	●	●	●	●	●	●	●	●
Console Indoor Unit		●		●		●		●	●																
Floor Standing Type Indoor Unit																●				●					
Fresh Air Processing Indoor Unit																			●	●		●	●	●	●
AHU KIT																				●				●	●
Concealed Floor Standing Type		●		●		●		●	●	●	●	●													

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	4.0
	Heating	kW	2.5	2.8	3.2	3.6	4.5
Power supply	V/Ph/Hz		220-240/1/50 & 208-230/1/60				
Power consumption	W		55	55	55	65	85
Airflow volume(H/M/L)	m³/h		550/480/400	550/480/400	550/480/400	600/500/420	600/500/420
	CFM		324/282/235	324/282/235	324/282/235	353/294/247	353/294/247
Rated Current	Cooling	A	0.5	0.5	0.5	0.5	0.5
	Heating	A	0.5	0.5	0.5	0.5	0.5
	Water Heating	A	/	/	/	/	/
ESP	Pa		60/0 ~ 150	60/0 ~ 150	60/0 ~ 150	60/0 ~ 150	60/0 ~ 150
Sound pressure level(H/M/L)	dB(A)		33/30/28	33/30/28	33/30/28	33/31/29	33/31/29
Connecting pipe diameter	Liquid	mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35
	Gas	mm	Φ9.52	Φ9.52	Φ9.52	Φ12.7	Φ12.7
Drain pipe	External dia.	mm	Φ25	Φ25	Φ25	Φ25	Φ25
	Thickness	mm	2.5	2.5	2.5	2.5	2.5
Dimension (WxDxH)	Outline	mm	700×700×300	700×700×300	700×700×300	700×700×300	700×700×300
	Package	mm	897×808×362	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	34/40
Loading quantity	40' GP	set	168	168	168	168	168
	40' HQ	set	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	8.0
	Heating	kW	5.0	5.6	6.3	7.1	9.0
Power supply	V/Ph/Hz		220-240/1/50 & 208-230/1/60				
Power consumption	W		85	85	90	100	100
Airflow volume(H/M/L)	m³/h		850/700/600	850/700/600	1000/800/700	1000/800/700	1250/1050/950
	CFM		500/412/353	500/412/353	589/471/412	589/471/412	736/618/559
Rated Current	Cooling	A	0.5	0.5	0.8	0.8	0.8
	Heating	A	0.5	0.5	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
Sound pressure level(H/M/L)	dB(A)		36/34/32	36/34/32	37/35/33	37/35/33	38/36/34
Connecting pipe diameter	Liquid	mm	Φ6.35	Φ6.35	Φ9.52	Φ9.52	Φ9.52
	Gas	mm	Φ12.7	Φ12.7	Φ15.9	Φ15.9	Φ15.9
Drain pipe	External dia.	mm	Φ25	Φ25	Φ25	Φ25	Φ25
	Thickness	mm	2.5	2.5	2.5	2.5	2.5
Dimension (WxDxH)	Outline	mm	700×700×300	700×700×300	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
Net weight/Gross weight	kg		34/40	34/40	43/49	43/49	43/49
Loading quantity	40' GP	set	168	168	138	138	138
	40' HQ	set	196	196	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		220-240/1/50 & 208-230/1/60							
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
	CFM		1059/853/736	1059/853/736	1177/942/824	1177/942/824	1383/1118/971	1471/1177/1030	2354/2119/1883	2589/2354/2119
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 diameter	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	2.5	2.0	2.0
Dimension (WxDxH)	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	set	84	84	84	84	84	84	52	52
	40' HQ	set	98	98	98	98	98	98	65	52

Model		GMV-ND40PLS/B1-T	GMV-ND45PLS/B1-T	GMV-ND50PLS/B1-T	GMV-ND56PLS/B1-T	GMV-ND63PLS/B1-T	
Capacity	Cooling	kW	4	4.5	5	5.6	6.3
	Heating	kW	4.5	5	5.6	6.3	7
Power supply	V/Ph/Hz		220-240/1/50 & 208-230/1/60				
Power consumption	W		65	65	65	65	65
Airflow volume (H/M/L)	m³/h		810/743/659	810/743/659	810/736/690	810/736/690	810/736/690
	CFM		477/437/388	477/437/388	477/433/406	477/433/406	477/433/406
Rated Current	Cooling	A	0.32	0.32	0.32	0.32	0.32
	Heating	A	0.32	0.32	0.32	0.32	0.32
	Water Heating	A	/	/	/	/	/
ESP	Pa		15/0~30				
Sound pressure level(H/M/L)	dB(A)		37/35/33	37/35/33	37/35/31	37/35/31	37/35/31
Connecting pipe diameter	Liquid	mm	Φ6.35	Φ6.35	Φ6.35	Φ9.52	Φ9.52
	Gas	mm	Φ12.7	Φ12.7	Φ12.7	Φ15.9	Φ15.9
Drain pipe	External dia.	mm	25	25	25	25	25
	Thickness	mm	2.5	2.5	2.5	2.5	2.5
Dimension (WxDxH)	Outline	mm	1010×450×200				
	Package	mm	1303×551×285				
Net weight/Gross weight	kg		24/29	24/29	25/30.5	25/30.5	25/30.5
Loading quantity	40' GP	set	288	288	288	288	288
	40' HQ	set	288	288	288	288	288

Low Static Pressure Duct Type Indoor Unit

50/60 Hz

Model		GMV-ND22PLS/B1-T	GMV-ND25PLS/B1-T	GMV-ND28PLS/B1-T	GMV-ND32PLS/B1-T	GMV-ND36PLS/B1-T	
Capacity	Cooling	kW	2.2	2.5	2.8	3.2	3.6
	Heating	kW	2.5	2.8	3.2	3.6	4
Power supply	V/Ph/Hz		220-240/1/50 & 208-230/1/60				
Power consumption	W		65	65	65	65	65
Airflow volume (H/M/L)	m³/h		610/437/350	610/437/350	610/437/350	650/629/449	650/629/449
	CFM		359/257/206	359/257/206	359/257/206	383/370/264	383/370/264
Rated Current	Cooling	A	0.32	0.32	0.32	0.32	0.32
	Heating	A	0.32	0.32	0.32	0.32	0.32
	Water Heating	A	/	/	/	/	/
ESP	Pa		15/0~30				
Sound pressure level(H/M/L)	dB(A)		38/36/30	38/36/30	38/36/30	38/36/30	38/36/30
Connecting pipe diameter	Liquid	mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35
	Gas	mm	Φ9.52	Φ9.52	Φ9.52	Φ12.7	Φ12.7
Drain pipe	External dia.	mm	25	25	25	25	25
	Thickness	mm	2.5	2.5	2.5	2.5	2.5
Dimension (WxDxH)	Outline	mm	710×450×200				
	Package	mm	1003×551×285				
Net weight/Gross weight	kg		19/23	19/23	19/23	20/23.5	20/23.5
Loading quantity	40' GP	set	352	352	352	352	352
	40' HQ	set	352	352	352	352	352

Model		GMV-ND71PLS/B1-T	GMV-ND80PLS/A-T	GMV-ND90PLS/A-T	GMV-ND100PLS/A-T	GMV-ND112PLS/A-T	GMV-ND125PLS/A-T	GMV-ND140PLS/A-T	
Capacity	Cooling	kW	7.1	8.0	9.0	10.0	11.2	12.5	14.0
	Heating	kW	8.0	9.0	10.0	11.2	12.5	14.0	16.0
Power supply	V/Ph/Hz		220-240/1/50 & 208-230/1/60						
Power consumption	W		70	140	209	209	209	230	230
Airflow volume(H/M/L)	m³/h		1210/919/754	1100/1000/800	1500/1250/950	1500/1350/1000	1700/1500/1100	2000/1500/1150	2000/1500/1150
	CFM		712/541/444	650/590/471	885/736/599	885/795/590	1000/885/650	1175/885/677	1175/885/677
Rated Current	Cooling	A	0.34	0.7	1.0	1.0	1.0	1.1	1.1
	Heating	A	0.34	0.7	1.0	1.0	1.0	1.1	1.1
	Water Heating	A	/	/	/	/	/	/	/
ESP	Pa		10/0~30	30/0~50					
Sound pressure level(H/M/L)	dB(A)		39/37/35	36/34/31	40/36/32	40/36/32	40/36/32	42/40/37	42/40/37
Connecting pipe diameter	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	25	25	25	25	25	25	
	Thickness	mm	2.5	2.5	2.5	2.5	2.5	2.5	
Dimension (WxDxH)	Outline	mm	1310×450×200	1200 × 655 × 260	1340 × 655 × 260				
	Package	mm	1603×551×285	1448×858×315	1588×858×315				
Net weight/Gross weight	kg		30.5/37	40/47	46/55	46/55	46/55	47/56	47/56
Loading quantity	40' GP	set	224	96	78	78	78	78	78
	40' HQ	set	224	96	78	78	78	78	78

Floor Standing Type

Model			GMV-ND100L/A-T				GMV-ND140L/A-T			
Capacity	Cooling	kW	10				14			
	Heating	kW	11				15			
Power supply	V/Ph/Hz		220-240/1/50 & 208-230/1/60							
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 diameter	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 (WxDxH)	Outline	mm	1870x580x400							
	Package	mm	2083x738x545							
Net weight/Gross weight	kg		54/74				57/77			
Loading quantity	40' GP	set	67				67			
	40' HQ	set	67				67			

AHU KIT

Model			GMV-N36U/B-T				GMV-N71U/B-T				GMV-N140U/B-T				GMV-N280U/B-T				GMV-N560U/B-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							
Power Supply	V/Ph/Hz		220-240/1/50 & 208-230/1/60																			
Size of connection pipe	AHU-KIT		mm		Φ6.35	Φ6.35	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	Φ12.7	Φ12.7	Φ15.9	Φ15.9	Φ19.05					
		Gas pipe	mm	Φ9.52	Φ12.7	Φ12.7	Φ15.9	Φ15.9	Φ15.9	Φ15.9	Φ19.05	Φ22.2	Φ25.4	Φ25.4	Φ28.6	Φ28.6	Φ31.8					
Connection method			Brazeing Connection				Brazeing Connection				Brazeing Connection				Brazeing Connection							
Outline dimension (WxDxH)	EXV box	mm	203×326×85				203×326×85				203×326×85				246×500×120							
	Control box	mm	334×284×111				334×284×111				334×284×111				334×284×111							
Packing size (WxDxH)	mm		539×461×247				539×461×247				539×461×247				759×645×180							
Net weight/Gross weight	kg		9/12				9/12				9/12				12.5/17							
Loading	40'GP		set				981				981				702							
Quantity	40'HQ		set				1090				1090				756							

Modular Model			GMV-N560U/B-T+GMV-N140U/B-T				GMV-N560U/B-T+GMV-N280U/B-T				GMV-N560U/B-T+GMV-N560U/B-T							
Defaulted capacity of ex-factory	Capacity		840+140				840+280				840+560				840+840			
	Cooling	kW	98				112				140				168			
	Heating	kW	110.5				126				157.5				189			
Power input	W		8+8				8+8				8+8							
Power Supply	V/Ph/Hz		220-240/1/50 & 208-230/1/60															
Size of connection pipe	Air handling unit	Liquid pipe	mm				Φ19.05				Φ19.05				Φ19.05			
		Gas pipe	mm				Φ38.1				Φ38.1				Φ41.3			
Outline dimension (WxDxH)	EXV box	mm	246×500×120+203×326×85				246×500×120+203×326×85				(246×500×120)×2							
	Control box	mm	(334×284×111)×2				(334×284×111)×2				(334×284×111)×2							
Net weight	kg		12.5+9				12.5+9				12.5+12.5							

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				22.4/28.0/33.5/40.0/45.0				50.4/56.0/84.0					
	Heating	kW	3.2/4.0				5.0/6.3/8.0				10/12.5/16				25.0/31.5/37.5/45.0/50.0				56.0/63.0/94.5					
Power input	W		8				8				8				8									
Power Supply	V/Ph/Hz		220-240/1/50 & 208-230/1/60																					
Size of connection pipe	AHU-KIT (ex-factory pipe size)		mm		Φ6.35				Φ9.52				Φ9.52				Φ9.52				Φ15.9			
	Air handling unit	Liquid pipe	mm				Φ6.35/Φ6.35				6.35/9.52/9.52				9.52/9.52/9.52				9.52/9.52/12.7/12.7/12.7					
		Gas pipe	mm				Φ9.52/Φ12.7				12.7/15.9/15.9				15.9/15.9/15.9				19.05/22.2/25.4/25.4/28.6					
Connection method			Brazeing Connection																					
Outline dimension (WxDxH)	EXV box	mm	203×326×85				203×326×85				203×326×85				203×326×85				246×500×120					
	Control box	mm	334×284×111				334×284×111				334×284×111				334×284×111				334×284×111					
Package dimension (WxDxH)	mm		539×461×247				539×461×247				539×461×247				539×461×247				759×645×180					
Net weight	kg		9.5				10				10				10									
Gross weight	kg		12.5				13				13				13									
Loading	40'GP	set	981				981				981				981									
	40'HP	set	1090				1090				1090				1090									

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*							
Defaulted capacity of ex-factory	Capacity		840+140				840+280				840+560				840+840			
	Cooling	kW	98				112				140				168			
	Heating	kW	110.5				126				157.5				189			
Power input	W		8+8				8+8				8+8							
Power supply	V/Ph/Hz		220-240/1/50 & 208-230/1/60															
Air handling unit	Liquid pipe	mm	19.05				19.05				19.05				19.05			
	Gas pipe	mm	38.1				38.1				41.3				41.3			
Outline dimension (WxDxH)	EXV box	mm	246×500×120+203×326×85				246×500×120+203×326×85				(246×500×120) ×2							
	Control box	mm	(334×284×111) ×2				(334×284×111) ×2				(334×284×111) ×2							
Net weight	kg		12.5+10.0				12.5+10.0				12.5+12.5							
Gross weight	kg		17+13				17+13				17+17							

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

Control System Lineup

Controlling systems		Outdoor series	GMV5	GMV5 MINI	GMV5 SLIM	GMV5 Home	GMV Water	GMV5 HR
Long-distance monitor	Intelligent Remote Eudemon	FE30-24/DF(B)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		<input type="radio"/>
		ME30-24/DF(B)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		<input type="radio"/>
	Gateway of building protocol	ME30-24/E5(M)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
		ME30-24/E6(M)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
		ME30-24/D4(B)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Intelligent Billing Eudemon	FE11-24/D4(B)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>			<input type="radio"/>	
	ME11-24/D4(B)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>			<input type="radio"/>	
Other modules	Optoelectronic isolated converter	GD02	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>			<input type="radio"/>
	Optoelectronic isolated signal multiplier	RS485-W						

Controlling system	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
Wireless Controller	YAP1F	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	YV1L1	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Wired controller	XK46	<input type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
	XK79	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	XK55	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	XK86	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	JS05(receiver)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Central Controller	CE52-24/F(C)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	CE57-24/F(C)*	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Smart Zone Controller	CE53-24/F(C)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
E-Smart Zone Controller	CE54-24/F(C)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Note:
 means standard, means optional.
 *: This model is under development.

Branching Joint (For GMV5E and GMV5 Home units)

For Indoor & Outdoor Units

Model	Total Capacity (xkW)	Appearance	
		Gas Pipe	Liquid Pipe
FQ01A/A	X < 20		
FQ01B/A	20 ≤ X ≤ 30		
FQ02/A	30 < X ≤ 70		
FQ03/A	70 < X ≤ 135		
FQ04/A	135 < X		

For Outdoor Units (For GMV5E units)

Model	Appearance	
	Gas Pipe	Liquid Pipe
ML01/A		

Branching Joint (For GMV5E 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 connection 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 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	$X \leq 14.2$		
FQ01B/A	$14.2 < X \leq 28.0$		

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

For Outdoor Units				
Model	Module's capacity X(kW)	Appearance		
		High-pressure gas pipe	Low-pressure gas pipe	Liquid pipe
ML01R	$50.4 \leq X \leq 96$			
ML02R	$96 < X$			

Branching Joint (For AHU KIT)	
Model	Appearance
FQ01U/A	

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		



ERV+DX Coil*

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



5~10.5kW



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.
- Efficient humidifying: Humidifying modules are built inside the units for a higher degree of comfort.
- 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*: This product series is under development. Gree reserves the right to modify the specifications without prior notice. Please confirm the final specifications with sales representatives.

Model			GMV-VSDR5PH/SA-S	GMV-VSDR8PH/SA-S	GMV-VSDR10PH/SA-S
Capacity	Cooling	kW	7.8(3.8)	12.5(6.1)	15.6(7.7)
	Heating	kW	6.3(3.2)	10(5)	12.5(6.3)
Air flow volume	H/M/L	m³/h	500/450/400/350	800/700/600/500	1000/900/800/700
ESP	H/M/L	Pa	150	150	150
Temperature exchange efficiency	H/M/L	%	73	73	73
Enthalpy exchange efficiency(H/M/L)	cooling	%	60	60	60
	Heating	%	65	65	65
Power supply	V/Ph/Hz		220-240V ~ ,50Hz/60Hz	220-240V ~ ,50Hz/60Hz	220-240V ~ ,50Hz/60Hz
Power input	kW		300	500	660
Sound pressure level		dB(A)	38	38	40
Dimension(WxDxH)	Outline	mm	1700x885x340	1800x1185x390	1800x1185x390
	Package	mm	1900x1085x540	2000x1385x590	2000x1385x590
Net Weight/Gross weight		kg	130/155	180/205	180/205
Loading quantity	40'GP/40'HQ	set	160	210	210
Standard wired remote controller	Z4E35M				

AIR TO WATER

Versati II

Versati II + (Split Type)

Versati III (Split Type)

Versati III (Monobloc Type)

Split Type Water Heater

Integral Type Water Heater

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(°C)		Environment Dry Bulb Temperature(°C)	
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 Unit²

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	220~240/1/50	220~240/1/50	220~240/1/50	220~240/1/50
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	980×427×788	980×427×788	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	set	96	96	50	50
	40'HQ	set	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	220~240/1/50	380~415V/3/50	380~415V/3/50	380~415V/3/50
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	3.2/4.1	3.8/4.2	3.6/4.1	3.6/4.1
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	set	50	50	50	50
	40'HQ	set	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.Capacities and power inputs are based on the following conditions:

- Cooling conditions.
- Indoor Water Temperature 23°C/18°C.
- Outdoor Air Temperature 35°CDB/24°CWB.
- Heating conditions.
- Indoor Water Temperature 30°C/35°C.
- Outdoor Air Temperature 7°CDB/6°CWB.
- Standing piping length 5m.

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

- Cooling conditions.
- Indoor Water Temperature 12°C/7°C.
- Outdoor Air Temperature 35°CDB/24°CWB.
- Heating conditions.
- Indoor Water Temperature 40°C/45°C.
- Outdoor Air Temperature 7°CDB/6°CWB.
- 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	220~240/1/50	220~240/1/50	220~240/1/50
Nominal input	W	6100	6100	6100
Leaving water temperature	Cooling ¹	°C	18	18
	Cooling ²	°C	7	7
	Heating ³	°C	35	35
	Heating ⁴	°C	45	45
Pump	Type	-	Water-cooled	
	Nr. of speed	-	Variable-speed	
	Power input	W	4-75	4-75
	Water flow limit	LPM		12
Electric heater	Operation	-	Automatic	
	Steps	-	2	2
	Capacity	kW	6	6
	Combination	kW		3+3
	Power input	Ph/V/Hz	1Ph/220~240V/50Hz	1Ph/220~240V/50Hz
Sound pressure level	dB(A)	31	31	31
Connecting pipe	Gas	inch(mm)	φ15.9	φ15.9
	Liquid	inch(mm)	φ9.52	φ9.52
Dimensions (W×D×H)	Outline	mm	981×500×324	981×500×324
	Packaged	mm	1043×608×395	1043×608×395
Net weight/Gross weight	kg	56/65	56/65	57/66
Loading quantity	40'GP	set	205	205
	40'HQ	set	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	220~240/1/50	220~240/1/50	380~415/3/50	380~415/3/50	380~415/3/50
Nominal input	W	6100	6100	6100	6100	6100
Leaving water temperature	Cooling ¹	°C	18	18	18	18
	Cooling ²	°C	7	7	7	7
	Heating ³	°C	35	35	35	35
	Heating ⁴	°C	45	45	45	45
Pump	Type	-	RS25/7.5	RS25/7.5	RS25/7.5	RS25/7.5
	Nr. of speed	-	800 / 4770	800 / 4770	800 / 4770	800 / 4770
	Power input	W	4-75	4-75	4-75	4-75
	Water flow limit	LPM		12		
Electric heater	Operation	-	Yes	Yes	Yes	Yes
	Steps	-	2	2	1	1
	Capacity	kW	6	6	6	6
	Combination	kW	3+3	3+3	6	6
	Power input	Ph/V/Hz	1Ph/220~240V/50Hz	1Ph/220~240V/50Hz	380~415V/3Ph/50Hz	380~415V/3Ph/50Hz
Sound pressure level	dB(A)	31	31	31	31	31
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	981×500×324	981×500×324	981×500×324	981×500×324
	Packaged	mm	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	set	205	205	205	205
	40'HQ	set	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		SXVD200LCJ/A-K	SXVD200LCJ2/A-K	SXVD300LCJ/A-K	SXVD300LCJ2/A-K
Water tank volume	L	200	200	300	300
Power supply	Ph/V/Hz	1/230/50	1/230/50	1/230/50	1/230/50
Electric heater power	W	3000	3000	3000	3000
Screw thread spec of pipe	Cool water inlet	inch(mm)	φ1/2"Female BSP(12.7)	φ1/2"Female BSP(12.7)	φ1/2"Female BSP(12.7)
	Hot water outlet	inch(mm)	φ1/2"Female BSP(12.7)	φ1/2"Female BSP(12.7)	φ1/2"Female BSP(12.7)
Dimension	Outline	Diameter×H	mm	φ540×1595	φ620×1620
	Packaged	W×D×H	mm	1623×628×645	1648×708×725
Net weight/Gross weight	kg	68/77	71/80	82/92	87/97
Loading quantity	40'GP/40'HQ	set	75/100	75/100	63/63

Model		SXVD200LCJ/A-M	SXVD200LCJ2/A-M	SXVD300LCJ/A-M	SXVD300LCJ2/A-M
Water tank volume	L	200	200	300	300
Power supply	Ph/V/Hz	3/400/50	3/400/50	3/400/50	3/400/50
Electric heater power	W	3000	3000	3000	3000
Screw thread spec of pipe	Cool water inlet	inch(mm)	φ1/2"Female BSP(12.7)	φ1/2"Female BSP(12.7)	φ1/2"Female BSP(12.7)
	Hot water outlet	inch(mm)	φ1/2"Female BSP(12.7)	φ1/2"Female BSP(12.7)	φ1/2"Female BSP(12.7)
Dimension	Outline	Diameter×H	mm	φ540×1595	φ620×1620
	Packaged	W×D×H	mm	1623×628×645	1648×708×725
Net weight/Gross weight	kg	68/77	71/80	82/92	87/97
Loading quantity	40'GP/40'HQ	set	75/100	75/100	63/63

Versati II + (Split Type)



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°C 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 Unit

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	220-240/1/50	220-240/1/50	380-415/3/50	380-415/3/50
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	980×427×788	980×427×788	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.Capacities and power inputs are based on the following conditions:

- Cooling conditions.
- Indoor Water Temperature 23°C/18°C.
- Outdoor Air Temperature 35°CDB/24°CWB.
- Heating conditions.
- Indoor Water Temperature 30°C/35°C.
- Outdoor Air Temperature 7°CDB/6°CWB.
- Standing piping length 7.5m.

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

- Cooling conditions.
- Indoor Water Temperature 12°C/7°C.
- Outdoor Air Temperature 35°CDB/24°CWB.
- Heating conditions.
- Indoor Water Temperature 40°C/45°C.
- Outdoor Air Temperature 7°CDB/6°CWB.
- 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		220~240/1/50	220~240/1/50	380~415/3/50	380~415/3/50
Normal 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
	Operation	-	-	-	-	-
Electric Heater	Steps	-	2	2	1	1
	Capacity	kW	3	3	3	3
	Combination	kW	3+3	3+3	6	6
	Power input	Ph/V/Hz	230/1/50	230/1/50	400/3/50	400/3/50
	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	981x500x324	981x500x324	981x500x324	981x500x324
	Packaged	mm	1043x608x395	1043x608x395	1043x608x395	1043x608x395
Net weight/Gross weight	kg		56/65	56/65	58/67	58/67
Loading quantity	40'GP	-	205	205	205	205
	40'HQ	-	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

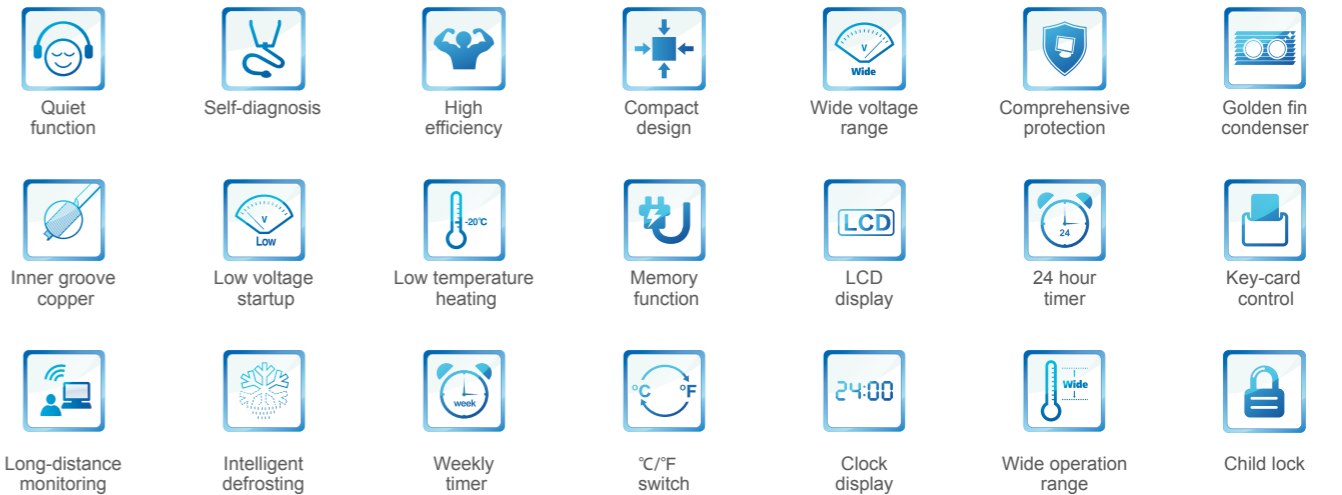
Model			SXVD200LCJ/A-K	SXVD200LCJ2/A-K	SXVD300LCJ/A-K	SXVD300LCJ2/A-K
Water tank volume	L		200	200	300	300
Power supply	Ph/V/Hz		1/230/50	1/230/50	1/230/50	1/230/50
Electric heater power	W		3000	3000	3000	3000
Screw thread spec of pipe	Cool water inlet	inch(mm)	φ1/2"Female BSP(12.7)	φ1/2"Female BSP(12.7)	φ1/2"Female BSP(12.7)	φ1/2"Female BSP(12.7)
	Hot water outlet	inch(mm)	φ1/2"Female BSP(12.7)	φ1/2"Female BSP(12.7)	φ1/2"Female BSP(12.7)	φ1/2"Female BSP(12.7)
Dimension	Outline	Diameter×H	mm	φ540×1595	φ540×1595	φ620×1620
	Packaged	W×D×H	mm	1623x628x630	1623x628x630	1648x708x725
Net weight/Gross weight	kg		68/77	71/80	82/92	87/97
Loading quantity	40'GP/40'HQ	set	75/100	75/100	63/63	63/63

Model			SXVD200LCJ/A-M	SXVD200LCJ2/A-M	SXVD300LCJ/A-M	SXVD300LCJ2/A-M
Water tank volume	L		200	200	300	300
Power supply	Ph/V/Hz		3/400/50	3/400/50	3/400/50	3/400/50
Electric heater power	W		3000	3000	3000	3000
Screw thread spec of pipe	Cool water inlet	inch(mm)	φ1/2"Female BSP(12.7)	φ1/2"Female BSP(12.7)	φ1/2"Female BSP(12.7)	φ1/2"Female BSP(12.7)
	Hot water outlet	inch(mm)	φ1/2"Female BSP(12.7)	φ1/2"Female BSP(12.7)	φ1/2"Female BSP(12.7)	φ1/2"Female BSP(12.7)
Dimension	Outline	Diameter×H	mm	φ540×1595	φ540×1595	φ620×1620
	Packaged	W×D×H	mm	1620x625x630	1620x625x630	1645x705x710
Net weight/Gross weight	kg		68/77	71/80	82/92	87/97
Loading quantity	40'GP/40'HQ	set	75/100	75/100	63/63	63/63

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

Versati III (Split 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 °C while the leaving water temperature range is 25~60 °C.



- 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
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.

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.

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



4/6/8kW



10/12/14/16kW



Inner groove copper	Quiet function	Weekly timer	Low temperature heating	Key-card control	Comprehensive protection	Timer	Lock	Wide operation range
Wide voltage range	Self-Diagnosis	Low voltage startup	Memory function	Intelligent Defrosting	°C / °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°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	-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/1Ph/50Hz	220~240V/1Ph/50Hz	220~240V/1Ph/50Hz	220~240V/1Ph/50Hz	220~240V/1Ph/50Hz	220~240V/1Ph/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	1.55	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	4.65/5.1	4.4/5.0	4.4/4.6	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	3.2/4.1	3.15/3.85	3.2/3.75	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	°C	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	1150×390×756	1150×390×756	1150×390×756	1200×460×878	1200×460×878	1200×460×878
	Packaged	mm	1250×480×765	1250×480×765	1250×480×765	1245×545×885	1245×545×885	1245×545×885
Net weight/Gross weight	kg	92	92	92	151	151	151	
Loading quantity	40'GP	-	84	84	84	58	58	58
	40'HQ	-	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/1Ph/50Hz	380~415V/3Ph/50Hz	380~415V/3Ph/50Hz	380~415V/3Ph/50Hz	380~415V/3Ph/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	°C	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	1245×545×885	1245×545×885	1245×545×885	1245×545×885	1245×545×885
Net weight/Gross weight	kg	151	151	151	151	151	
Loading quantity	40'GP	-	58	58	58	58	58
	40'HQ	-	58	58	58	58	58

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

Split Type Water Heater

Gree split type water heater offers you with sufficient hot water, ensuring an 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
- 
Clock display
- 
Intelligent defrosting
- 
Easier maintainability
- 
Child lock

- **Safety 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 water tank adopts advanced stainless steel inner container with magnesium sticks. 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 kitchen, garage, stock room or basement. It is also suitable for skyscrapers, villa, and so on.
- **Easy operation**
Water temperature can be set. Water supply can be on or off depending on water temperature and water consumption, so that hot water can be supplied at any time. 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, overcast and rainy days.



Outdoor Unit

Model		GRS-S3.0G/NbA-K	GRS-S3.5PdG/NaA1-K
Rated heating capacity ⁽¹⁾	W	2800	3500(1800~3700)
Rated input power ⁽¹⁾	W	700	833(360~910)
Load profile	-	L	L
COP ⁽²⁾	W/W	2.9	3.1
Energy efficiency class ⁽²⁾	-	A+	A+
Water heating energy efficiency ⁽²⁾	-	122%	130%
Heating time (7/6 °C , 15-55°C)	h	4.20	5.40
Maximum input power	W	1180+1500W (Electric Heater)	2000+1500W (Electric Heater)
Circuit breaker	A	16	16
Outlet water temperature	°C	Default: 55°C, 35°C~70°C	Default: 50°C, 35°C~55°C
Power supply	V/Ph/Hz	220-240V~50Hz	220-240V~50Hz
Insulation level	-	I	I
Protection of ingress ion	-	I PX4	I PX4
Refrigerant	Type	R134a	R410A
	Charge	kg	1.20
Outline dimensions	WxDxH	mm	848x320x540
Package dimensions	WxDxH	mm	948x363x600
Max. pipe length/height	m	20	20
Gross/Net weight	kg	41/35.5	44.5/38.5
Sound power level ⁽³⁾	dB(A)	61	63
Operating range	°C	-7~45°C	-25~45°C

- Notes:
- Value obtained with the following conditions: Outdoor temperature: 20°C DB/15°C WB; Water tank temperature (start/end): 15°C /55°C.
 - Value obtained with an air temperature of 7°C and a water inlet at 10°C , as per EN16147, (EU) No 814/2013.
 - Value obtained as per EN 12102-2008.
 - Gree reserves the right to modify the specifications without prior notice. Please confirm the final specifications with sales representatives.
 - GRS-S3.0G/NbA-K is fixed-frequency model with refrigerant of R134a;GRS-S3.5PdG/NaA1-K is inverter model with refrigerant of R410A.

Water Tank

Model		SXD200LC/JW/C1-K	SXTD200LC/JW/A-K
Capacity	L	185	185
Power supply for electric heater	-	220V-240V~50Hz	220V-240V~50Hz
Input power for electric heater	W	1500	1500
Max. operation pressure	Mpa	0.70	0.70
Outline dimensions(WxDxH)	mm	545x545x1919	462x462x1944
Package dimensions(WxDxH)	mm	2009x656x625	583x583x2045
Water tank gross/Net weight	kg	60/52	88/75
Outer size of connection pipe	mm	Φ6, Φ9.52	Φ6, Φ9.52

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



Integral Type Water Heater

The unit is with new integrated structure, concise design, and centrifugal type wind system design, which can connect air inlet pipe and air outlet pipe. This unit is applicable for garage, storage room, balcony and other household locations.



Controller XK64



Controller ZF5201



High efficiency



Intelligent defrosting



Energy Saving



Wide operation range



°C/°F switch



Clock display



Child lock



24 hour timer

- **Safety 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 water tank adopts advanced stainless steel inner container with magnesium sticks. 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. It is also suitable for skyscrapers, villa, and so on. Installation and maintenance is convenient for its no cycle waterway system.
- **Easy operation**
Water temperature can be set. Water supply can be on or off depending on water temperature and water consumption, so that hot water can be supplied at any time. 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, overcast and rainy days.



Model		GRS-2.4/D270ANbA-K*	GRS-1.5/TD150ANbA-K*	GRS-1.5/TD200ANbA-K*	GRS-1.5/D150ANbA-K	GRS-1.5/D200ANbA-K
Capacity	kW	2.4	1.5	1.5	1.5	1.5
Power input	kW	0.685	0.429	0.429	0.429	0.429
Load profile	-	XL	L	L	L	L
COP _{DHW}	W/W	2.61	2.47	2.24	2.47	2.47
Water heating energy efficiency		105%	104%	95%	104%	104%
Energy efficiency class		A	A	A	A	A
Refrigerant	-	R134a	R134a	R134a	R134a	R134a
Refrigerant charge volume	kg	1.1	0.8	0.8	0.8	0.8
Circuit breaker	A	16	16	16	16	16
Refrigerant design pressure	MPa	2.8	2.8	2.8	2.8	2.8
Tank design pressure	MPa	0.8	0.8	0.8	0.8	0.8
Max. operation pressure	MPa	0.8	0.8	0.8	0.8	0.8
Heating time (7/6 °C, 15-55°C)	h	7.10	6.50	9.20	6.10	8.00
Running ambient temperature	°C	-7~45	0~45	0~45	0~45	0~45
Outwater temperature	°C	35~70	35~70	35~70	35~70	35~70
Air flow rate	m³/h	300	/	/	/	/
Available static pressure	Pa	40	/	/	/	/
Max. length of air connection	m	5	/	/	/	/
Sound pressure level(heating)	dB(A)	49	50	50	50	50
Sound power level(heating)	dB(A)	60	62	62	61	61
Volume	L	270	150	190	150	190
Water pipeline	Water Inlet Pipe	inch	0.79	0.79	0.59	0.59
	Water Outlet Pipe	inch	0.79	0.79	0.59	0.59
	Drainage Pipe	inch	0.79	0.79	0.59	0.59
Dimensions(W×D×H)	Outline	mm	660×667×1958	621×561×1760	621×561×2030	591×591×1685
	Packaged	mm	813×813×2100	731×717×1845	731×717×2110	703×703×1765
Net wight/Gross weight	kg	114/139	92/112	102.5/122.5	73.5/88	79/95.5
Loading quantity	40'GP/40'HQ	set	28/28	48/48	48/48	48/48
Material of inner tank	-	Stainless steel (SUS304L)	Enamel	Enamel	Enamel	Enamel

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

*1:This model can not installed with air duct.

*2:This model can installed with air duct.

AIR-COOLED CHILLER

- Inverter Mini Chiller (Heat Pump, R410A Series)**
- Inverter Mini Chiller (Heat Pump, R32 Series)**
- 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 on the temperature range of -20~48 C.



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(°C)	Outlet(°C)	Outlet(°C)	I/O difference(°C)	DB(°C)	WB(°C)	DB(°C)
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 Supply		V/Ph/Hz	220~240/1/50		380~415/3/50	
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	1390x412x890	1390x412x890	1354x365x1435	1354x365x1435
	Package	mm	1463x438x1035	1463x438x1035	1443x433x1575	1443x433x1575
Net weight/Gross weight		kg	140/155	140/155	194/209	194/209
Loading quantity		set	80/80	80/80	43/43	43/43



Inverter Mini Chiller (Heat Pump, R32 Series)

It's a kind of integrated DC inverter unit that comprises cooling and heating, 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 (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	7~25	5	35	-
Heating	40	45	25~60	5	7	6

Model	Heat pump		HLR4Pd/NaC-K	HLR6Pd/NaC-K	HLR8Pd/NaC-K	HLR10Pd/NaC-K	HLR12Pd/NaC-K
Capacity	Cooling	kW	3	4	5	7.8	9.5
	Heating	kW	4	6	7.5	10	12
EER/COP		W/W	3.2/4.1	3.15/3.85	3.2/3.75	3.15/3.7	3.05/3.6
Power supply		V/Ph/Hz	220~240V/1Ph/50Hz	220~240V/1Ph/50Hz	220~240V/1Ph/50Hz	220~240V/1Ph/50Hz	220~240V/1Ph/50Hz
Power input	Cooling	kW	0.94	1.29	1.56	2.48	3.11
	Heating	kW	0.98	1.56	2	2.7	3.33
Compressor	Type	-	Rotary	Rotary	Rotary	Rotary	Rotary
	Quantity	-	1	1	1	1	1
Refrigerant charge volume		kg	0.87	0.87	0.87	2.2	2.2
Water flow volume		l/s	0.19	0.29	0.36	0.48	0.57
		GPM	3.03	4.55	5.69	7.58	9.10
Build-in chilled water pump	Pump power input	kW	0.075	0.075	0.075	0.075	0.075
	Delivery lift	m	7.5	7.5	7.5	7.5	7.5
Build-in expansion vessel volume		L	2	2	2	3	3
Chilled water outlet/inlet screw thread spec		inch	G1'	G1'	G1'	G1'	G1'
Sound pressure level		dB(A)	54	54	54	61	61
Dimension (WxDxH)	Outline	mm	1150×390×756	1150×390×756	1150×390×756	1200×460×878	1200×460×878
	Package	mm	1250×480×765	1250×480×765	1250×480×765	1245×545×885	1245×545×885
Net Weight/Gross weight		kg	96/109	96/109	96/109	151/166	151/166
Loading quantity	40'GP/40'HQ	set	84	84	84	58	58

Model	Heat pump		HLR14Pd/NaC-K	HLR16Pd/NaC-K	HLR10Pd/NaC-M	HLR12Pd/NaC-M	HLR14Pd/NaC-M	HLR16Pd/NaC-M
Capacity	Cooling	kW	12	13	7.8	9.5	12	13
	Heating	kW	14	15.5	10	12	14	15.5
EER/COP		W/W	2.9/3.55	2.75/3.4	3.15/3.7	3.05/3.6	2.9/3.55	2.75/3.4
Power supply		V/Ph/Hz	220~240V/1Ph/50Hz	220~240V/1Ph/50Hz	380~415V/3Ph/50Hz	380~415V/3Ph/50Hz	380~415V/3Ph/50Hz	380~415V/3Ph/50Hz
Power input	Cooling	kW	4.14	4.73	2.48	3.11	4.14	4.73
	Heating	kW	3.94	4.56	2.7	3.33	3.94	4.56
Compressor	Type	-	Rotary	Rotary	Rotary	Rotary	Rotary	Rotary
	Quantity	-	1	1	1	1	1	1
Refrigerant charge volume		kg	2.2	2.2	2.2	2.2	2.2	2.2
Water flow volume		l/s	0.67	0.74	0.48	0.57	0.67	0.74
		GPM	10.62	11.75	7.58	9.10	10.62	11.75
Build-in chilled water pump	Pump power input	kW	0.075	0.075	0.075	0.075	0.075	0.075
	Delivery lift	m	7.5	7.5	7.5	7.5	7.5	7.5
Build-in expansion vessel volume		L	3	3	3	3	3	3
Chilled water outlet/inlet screw thread spec		inch	G1'	G2'	G3'	G4'	G5'	G6'
Sound pressure level		dB(A)	61	61	61	61	61	61
Dimension (WxDxH)	Outline	mm	1200×460×878	1200×460×878	1200×460×878	1200×460×878	1200×460×878	1200×460×878
	Package	mm	1245×545×885	1245×545×885	1245×545×885	1245×545×885	1245×545×885	1245×545×885
Net Weight/Gross weight		kg	151/166	151/166	151/166	151/166	151/166	151/166
Loading quantity	40'GP/40'HQ	set	58	58	58	58	58	58



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.



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	LSQWRF70VM/NaA-M
Capacity	Cooling/Heating	kW	33/36	60/65	65/70	69/77
		RT	9.38/10.24	17.06/18.48	18.48/19.91	19.62/21.9
Capacity steps		%	0~100	0~100	0~100	0~100
EER/COP		W/W	2.65/3.38	2.74/3.22	2.62/3.20	2.79/3.06
Power supply		V/Ph/Hz	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50
Power input	Cooling	kW	12.45	21.90	24.80	24.73
	Heating	kW	10.65	20.20	21.90	25.16
Compressor	Type	-	Hermetic motor compressor	Hermetic motor compressor	Hermetic motor compressor	Hermetic motor compressor
	Starting mode	-	Inverter starting	Inverter starting	Inverter starting	Inverter starting
	Quantity	-	1	2	2	2
Water side heat exchanger	Type	-	Dry Expansion Evaporator	Dry Expansion Evaporator	Dry Expansion Evaporator	Dry Expansion Evaporator
	Water flow volume	l/s	1.58	2.87	3.11	3.25
		GPM	25.13	45.50	49.29	51.59
	Pressure drop	kPa	50	55	60	60
		ft.WG	16.4	18.04	19.68	19.68
Connection pipe	-	G1 1/2 external thread connection	G2 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	Aluminum Fin-copper Tube
	Fan type and quantity	-	Axial-flow/2	Axial-flow/2	Axial-flow/2	Axial-flow/2
	Total fan air flow	l/s	2x0.35x10 ⁴	2x0.33x10 ⁴	2x0.33x10 ⁴	2x0.38x10 ⁴
		CFM	2x0.74x10 ⁴	2x0.71x10 ⁴	2x0.71x10 ⁴	2x0.81x10 ⁴
Total fan motor power	kW	0.75	0.75	0.75	1.5	
Sound pressure level		dB(A)	62	68	68	69
Dimension	Outline(WxDxH)	mm	1340x845x1605	2200x965x1675	2200x965x1675	2200x965x1675
	Package(WxDxH)	mm	1420x920x1775	2267X1030X1867	2267X1030X1867	2267X1030X1867
Net Weight/Gross weight		kg	379/391	689/725	689/725	675/709
Loading quantity	40'GP/40'HQ	set	16/16	11/11	11/11	11/11

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.

SCREW CHILLER

High-efficiency Heat Pump Air-cooled Screw Chiller
High-efficiency Modular Air-cooled Screw Chiller
High-efficiency Water-cooled Screw Chiller



High-efficiency Heat Pump Air-cooled Screw Chiller

Gree High-efficiency Air-cooled Screw Chiller adopts Gree brand air-cooled heat pump specialized compressor, flooded type shell-and-tube design and a totally enclosed structure. Featuring high efficiency, high reliability and low noise, this air conditioning equipment can provide cool water in summer and hot water in winter. It can be combined with fan coil unit, floor ceiling unit, packaged unit or other kinds of terminals.



Display panel Z2F3Q

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

- Highly efficient and energy saving;
- Gree's efficient air-cooled heat pump specialized compressor;
- Heat pump flooded type shell-and-tube design;
- V-shaped structure for fins, efficient heat exchange design;
- Seamless connectivity on site, cooling capacity can be enlarged infinitely;
- Totally enclosed structure, patent low noise and low vibration design, safe and comfortable.

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)	WB(°C)	DB(°C)
Cooling	12	7	5~15	2.5~8	35	—	18~52
Heatling	40	45	40~50	2.5~8	7	6	-15~24

Model	Heat pump		LSBLGRF320MH/NbA-M	LSBLGRF350MH/NbA-M	LSBLGRF420MH/NbA-M	LSBLGRF470MH/NbA-M
Capacity	Cooling	kW	320	350	420	470
		RT	91.0	99.5	119.4	133.6
	Heating	kW	320	350	420	470
		RT	91.0	99.5	119.4	133.6
Capacity steps	%	25%,50%~100%				
EER/COP	WW	3.40				
Power supply	V/Ph/Hz	380V 3N ~ 50Hz				
Power input	Cooling	kW	94	102	123	138
	Heating	kW	94	102	123	138
Compressor	Type	-	Semi-hermetic screw compressor			
	Starting mode	-	Start Delta Start			
	Quantity	-	1	1	1	1
Water side heat exchanger	Type	-	Flooded Evaporator			
	Water flow volume	m³/h	55.0	60.2	72.2	80.8
		GPM	242	265	318	356
	Pressure drop	kPa	≤35	≤35	≤45	≤45
		ft.WG	≤11.7	≤11.7	≤15.1	≤15.1
Connection pipe	-	DN100	DN100	DN125	DN125	
Air side heat exchanger	Type	-	Aluminum Fin-copper Tube			
	Total fan air flow	m³/h	20000x6	20000x6	20000x8	20000x8
		CFM	11772x6	11772x6	11772x8	11772x8
	Total fan motor power	kW	1.5x6	1.5x6	1.5x8	1.5x8
Dimension	Outline(W×D×H)	mm	3670x2250x2550	3670x2250x2550	4890x2250x2550	4890x2250x2550
	Package(W×D×H)	mm	3750x2330x2550	3750x2330x2550	4970x2330x2550	4970x2330x2550
Net/Gross/Operating Weight	kg	4570/4610/4661	4740/4780/4835	5670/5710/5783	5780/5820/5896	
Loading quantity	40'GP/40'HQ	set	0/2	0/2	0/2	0/2

Model	Heat pump		LSBLGRF520MH/NbA-M	LSBLGRF580MH/NbA-M	LSBLGRF650MH/NbA-M	LSBLGRF700MH/NbA-M
Capacity	Cooling	kW	520	580	650	700
		RT	147.9	164.9	184.8	199.0
	Heating	kW	520	580	650	700
		RT	147.9	164.9	184.8	199.0
Capacity steps	%	25%,50%~100%		12.5%,25%~100%		
EER/COP	WW	3.42				
Power supply	V/Ph/Hz	380V 3N ~ 50Hz				
Power input	Cooling	kW	152	170	190	204
	Heating	kW	152	170	190	204
Compressor	Type	-	Semi-hermetic screw compressor			
	Starting mode	-	Start Delta Start			
	Quantity	-	1	1	2	2
Water side heat exchanger	Type	-	Flooded Evaporator			
	Water flow volume	m³/h	89.4	99.8	111.8	120.4
		GPM	394	439	492	530
	Pressure drop	kPa	≤45	≤50	≤55	≤55
		ft.WG	≤15.1	≤15.1	≤18.4	≤18.4
Connection pipe	-	DN125	DN125	DN150	DN150	
Air side heat exchanger	Type	-	Aluminum Fin-copper Tube			
	Total fan air flow	m³/h	20000x10	20000x10	20000x12	20000x12
		CFM	11772x10	11772x10	11772x12	11772x12
	Total fan motor power	kW	1.5x10	1.5x10	1.5x12	1.5x12
Dimension	Outline(W×D×H)	mm	6110x2250x2550	6110x2250x2550	7340x2250x2550	7340x2250x2550
	Package(W×D×H)	mm	6190x2330x2550	6190x2330x2550	7420x2330x2550	7420x2330x2550
Net/Gross/Operating Weight	kg	6710/6750/6844	6970/7010/7109	8550/8590/8721	8850/8890/9027	
Loading quantity	40'GP/40'HQ	set	0/1	0/1	0/1	0/1

Note: The product models are not for EU.

High-efficiency Modular Air-cooled Screw Chiller

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.



Model	Heat pump		LSBLGRF760MH/NbA-M	LSBLGRF820MH/NbA-M	LSBLGRF860MH/NbA-M	LSBLGRF950MH/NbA-M	LSBLGRF1050MH/NbA-M
Capacity	Cooling	kW	760	820	860	950	1050
		RT	216.1	233.2	244.5	270.1	298.6
	Heating	kW	760	820	860	950	1050
		RT	216.1	233.2	244.5	270.1	298.6
Capacity steps		%	12.5%,25%~100%	12.5%,25%~100%	12.5%,25%~100%	12.5%,25%~100%	12.5%,25%~100%
EER/COP		WW	3.42	3.42	3.41	3.42	3.41
Power supply		V/Ph/Hz	380V 3N ~ 50Hz	380V 3N ~ 50Hz	380V 3N ~ 50Hz	380V 3N ~ 50Hz	380V 3N ~ 50Hz
Power input	Cooling	kW	222	240	252	278	308
	Heating	kW	222	240	252	278	308
Compressor	Type	-	Semi-hermetic screw compressor				
	Starting mode	-	Start Delta Start				
	Quantity	-	2	2	2	2	2
Water side heat exchanger	Type	-	Flooded Evaporator				
	Water flow volume	m ³ /h	130.7	141	147.9	163.4	180.6
		GPM	575	621	651	719	795
	Pressure drop	kPa	≤55	≤55	≤65	≤60	≤70
		ft.WG	≤18.4	≤18.4	≤21.7	≤20.1	≤23.4
Connection pipe	-	DN150	DN150	DN150	DN150	DN200	
Air side heat exchanger	Type	-	Aluminum Fin-copper Tube				
	Total fan air flow	m ³ /h	20000x14	20000x14	20000x16	20000x16	20000x18
		CFM	11772x14	11772x14	11772x16	11772x16	11772x18
	Total fan motor power	kW	1.5x14	1.5x14	1.5x16	1.5x16	1.5x18
Dimension	Outline(W×D×H)	mm	8560x2250x2550	8560x2250x2550	9780x2250x2550	9780x2250x2550	11000x2250x2550
	Package(W×D×H)	mm	8640x2330x2550	8640x2330x2550	9860x2330x2550	9860x2330x2550	11080x2330x2550
Net/Gross/Operating Weight		kg	9900/9940/10098	10075/10115/10277	10910/10950/11128	11210/11250/11434	12380/12460/12628
Loading quantity	40GP40HQ	set	0/1	0/1	0/1	0/1	0/1

Model	Heat pump		LSBLGRF1160MH/NbA-M	LSBLGRF1280MH/NbA-M	LSBLGRF1400MH/NbA-M	LSBLGRF1520MH/NbA-M	LSBLGRF1650MH/NbA-M
Capacity	Cooling	kW	1160	1280	1400	1520	1650
		RT	329.8	364.0	398.1	432.2	469.2
	Heating	kW	1160	1280	1400	1520	1650
		RT	329.8	364.0	398.1	432.2	469.2
Capacity steps		%	12.5%, 25%~100%	8.3%, 16.7%~100%	6.25%, 12.5%~100%	6.25%, 12.5%~100%	6.25%, 12.5%~100%
EER/COP		WW	3.41	3.42	3.41	3.41	3.41
Power supply		V/Ph/Hz	380V 3N ~ 50Hz	380V 3N ~ 50Hz	380V 3N ~ 50Hz	380V 3N ~ 50Hz	380V 3N ~ 50Hz
Power input	Cooling	kW	340	374	410	446	484
	Heating	kW	340	374	410	446	484
Compressor	Type	-	Semi-hermetic screw compressor				
	Starting mode	-	Start Delta Start				
	Quantity	-	2	3	4	4	4
Water side heat exchanger	Type	-	Flooded Evaporator				
	Water flow volume	m ³ /h	199.5	220.2	240.8	261.4	283.8
		GPM	878	970	1060	1151	1250
	Pressure drop	kPa	≤50	≤55	≤60	≤60	≤60
		ft.WG	≤16.7	≤18.4	≤20.1	≤20.1	≤20.1
Connection pipe	-	2xDN125	DN150+DN125	2xDN150	2xDN150	2xDN150	
Air side heat exchanger	Type	-	Aluminum Fin-copper Tube				
	Total fan air flow	m ³ /h	20000x20	20000x22	20000x24	20000x26	20000x28
		CFM	11772x20	11772x22	11772x24	11772x26	11772x28
	Total fan motor power	kW	1.5x20	1.5x22	1.5x24	1.5x26	1.5x28
Dimension	Outline(W×D×H)	mm	12230x2250x2550	13450x2250x2550	14670x2250x2550	15890x2250x2550	17120x2250x2550
	Package(W×D×H)	mm	12310x2330x2550	13530x2330x2550	14750x2330x2550	15970x2330x2550	17200x2330x2550
Net/Gross/Operating Weight		kg	13270/13350/13535	15820/15900/16136	17700/17780/18054	18925/19005/19304	20150/20230/20553
Loading quantity	40GP40HQ	set	0/0	0/0	0/0	0/0	0/0

Note: The product models are not for EU.

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(°C)	Outlet(°C)	Outlet(°C)	I/O difference(°C)	DB(°C)	WB(°C)	DB(°C)
Cooling	12	7	5~15	2.5~8	35	—	18~52



High-efficiency Water-cooled Screw Chiller

This series of water cooled screw chiller adopts the advanced semi-enclosed dual-screw compressor, plus R134a eco-friendly refrigerant and vertical oil separator, to guarantee long time stable operation, high efficiency and energy saving; it is widely applicable to various kinds of office buildings, hospitals, schools, shopping centers and also applicable for cooling of production processing.



Comprehensive protection



Self-diagnosis



Memory function



Easier maintainability

- Precision water temperature control thanks to stepless capacity adjustment from 25%~100%(single comp) or 12.5%~100%(dual comp).
- Higher heat exchange efficiency thanks to flooded evaporating method.
- Higher efficiency under partial load thanks to paralleling operation design.
- High reliability oil return technology to avoid compressor damage from oil lack.
- Precision and stable volume adjusting thanks to orifice plus EXV throttle method.
- Automatic operation and energy saving operation makes an easier management.



Operating condition of nominal cooling (water temperature)				Operating range (water temperature)			
Chilled water		Cooling water		Chilled water		Cooling water	
Inlet(°C)	Outlet(°C)	Inlet(°C)	Outlet(°C)	Outlet(°C)	I/O difference(°C)	Inlet(°C)	I/O difference(°C)
-	7	30	-	4~15	2.5~8	18~35	3.5~8

Model		LHE353CE5AE2/Nb	LHE353CE4AE1E/Nb	LHE533CE3CE3/Nb	LHE553CE2CE2/Nb	LHE553CE1CE1E/Nb	LHE643EE7EE7/Nb
Cooling capacity	kW	265	298	345	372	430	460
	RT	75.4	84.7	98.1	105.8	122.3	130.8
Capacity steps	%	25-100	25-100	25-100	25-100	25-100	25-100
EER	W/W	5.94	5.98	6.05	6.09	6.09	6.06
IPLV	W/W	6.79	6.91	6.97	7.02	6.99	6.91
Power supply	Ph/V/Hz	3/380/50	3/380/50	3/380/50	3/380/50	3/380/50	3/380/50
Power input	kW	44.6	49.8	57.0	61.1	70.6	75.9
RLA	A	79	88	101	108	125	134
Compressor	Type	Semi-hermetic twin screw comp.					
	Starting mode	Y-Δ					
	Quantity	1	1	1	1	1	1
Refrigerant charge volume	kg	85	100	105	110	115	130
Refrigeration oil	Type	CPI-Solest-170					
	Charge volume	L	20	20	23	23	23
Evaporator	Type	Flooded type shell and tube evaporator					
	Fouling factor	m ² ·c/kW	0.018	0.018	0.018	0.018	0.018
	Water flow volume	m ³ /h	46	51	59	64	74
		GPM	201	226	261	282	326
	Pressure drop	kPa	45	46	39	43	39
Condenser	Connection pipe	Flanged connection					
	Type	Vertical type shell and tube condenser					
	Fouling factor	m ² ·c/kW	0.044	0.044	0.044	0.044	0.044
	Water flow volume	m ³ /h	57	64	74	80	92
		GPM	251	282	327	352	407
Pressure drop	kPa	51	54	51	52	56	
Connection pipe	Flanged connection						
Outline dimension (WxDxH)	mm	3170x1188x1850	3170x1188x1850	3175x1365x1959	3175x1365x1959	3175x1365x1959	3240x1465x2040
Net/Operating weight	kg	2300/2450	2330/2450	2750/2900	2780/2950	2800/2950	3350/3550

Model		LHE653EE6EE6/Nb	LHE653EE5EE5E/Nb	LHE822EE4EE4/Nb	LHE832EE3EE3/Nb	LHE832EE2EE2E/Nb	LHE862EE1EE1E/Nb
Cooling capacity	kW	490	550	600	670	705	752
	RT	139.3	156.4	170.6	190.5	200.5	213.8
Capacity steps	%	25-100	25-100	25-100	25-100	25%-100%	25%-100%
EER	W/W	6.09	6.06	6.06	6.06	6.06	6.06
IPLV	W/W	7.02	6.89	6.93	6.91	6.87	6.98
Power supply	Ph/V/Hz	3/380/50	3/380/50	3/380/50	3/380/50	3/380/50	3/380/50
Power input	kW	80.4	90.7	99.0	110.5	116.4	124
RLA	A	142	160	175	195	206	219
Compressor	Type	Semi-hermetic twin screw comp.					
	Starting mode	Y-Δ					
	Quantity	1	1	1	1	1	1
Refrigerant charge volume	kg	140	150	180	190	180	180
Refrigeration oil	Type	CPI-Solest-170					
	Charge volume	L	23	23	28	28	28
Evaporator	Type	Flooded type shell and tube evaporator					
	Fouling factor	m ² ·c/kW	0.018	0.018	0.018	0.018	0.0176
	Water flow volume	m ³ /h	84	95	103	115	121
		GPM	371	417	454	507	534
	Pressure drop	kPa	44	49	44	48	44
Condenser	Connection pipe	Flanged connection					
	Type	Vertical type shell and tube condenser					
	Fouling factor	m ² ·c/kW	0.044	0.044	0.044	0.044	0.044
	Water flow volume	m ³ /h	105	118	129	144	152
		GPM	464	521	568	634	667.5
Pressure drop	kPa	53	55	51	54	52	
Connection pipe	Flanged connection						
Outline dimension (WxDxH)	mm	3240x1465x2040	3240x1465x2040	3240x1508x2100	3240x1508x2100	3240x1508x2100	3240x1508x2100
Net/Operating weight	kg	3370/3550	3400/3600	3830/4050	3880/4100	3930/4150	3980/4200

Note: The product models are not for EU.

Model		LHE533GF2F2-2/Nb	LHE533GF2F2-2/Nb	LHE533GF1E-2/Nb	LHE643GH3GH6-2/Nb	LHE653GH2GH5-2/Nb	LHE653GH1GH4E-2/Nb	
Cooling capacity	kW	705	752	850	920	980	1100	
	RT	200.5	213.8	241.7	261.6	278.7	312.8	
Capacity steps	%	12.5-100	12.5-100	12.5-100	12.5-100	12.5-100	12.5-100	
EER	W/W	6.06	6.06	6.13	6.06	6.09	6.19	
IPLV	W/W	6.97	6.99	7.06	6.91	7.01	7.06	
Power supply	Ph/V/Hz	3/380/50	3/380/50	3/380/50	3/380/50	3/380/50	3/380/50	
Power input	kW	116.4	124.0	138.6	151.8	160.8	177.6	
RLA	A	206	219	245	268	284	314	
Compressor	Type	Semi-hermetic twin screw comp.						
	Starting mode	Y-Δ						
	Quantity	2	2	2	2	2	2	
Refrigerant charge volume	kg	100+100	110+110	120+120	135+135	140+140	155+155	
Refrigeration oil	Type	CPI-Solest-170						
	Charge volume	L	23+23	23+23	23+23	23+23	23+23	
Evaporator	Type	Flooded type shell and tube evaporator						
	Fouling factor	m ² ·c/kW	0.018	0.018	0.018	0.018	0.018	
	Water flow volume	m ³ /h	121	129	146	158	169	189
		GPM	534	569	644	697	742	833
	Pressure drop	kPa	44	49	55	61	59	65
Connection pipe	Flanged connection							
Condenser	Type	Vertical type shell and tube condenser						
	Fouling factor	m ² ·c/kW	0.044	0.044	0.044	0.044	0.044	
	Water flow volume	m ³ /h	152	162	183	198	211	237
		GPM	667	712	805	871	928	1041
	Pressure drop	kPa	50	56	59	73	72	77
Connection pipe	Flanged connection							
Outline dimension (WxDxH)	mm	3485x1530x2185	3485x1530x2185	3485x1530x2185	4020x1600x2200	4020x1600x2200	4020x1600x2200	
Net/Operating weight	kg	5250/5500	5330/5600	5380/5700	6350/6700	6380/6750	6420/6800	

Model		LHE822HJ3GJ3-2/Nb	LHE832HJ2GJ2-2/Nb	LHE832HJ1GJ1E-2/Nb	LHE842HJ1GJ1E-2/Nb
Cooling capacity	kW	1200	1300	1400	1480
	RT	341.2	369.6	398.1	420.8
Capacity steps	%	12.5%-100%	12.5%-100%	12.5%-100%	12.5%-100%
EER	W/W	6.15	6.14	6.16	6.18
IPLV	W/W	7.05	7.05	7.02	7.01
Power supply	Ph/V/Hz	3/380/50	3/380/50	3/380/50	3/380/50
Power input	kW	195	211.7	227.3	239.4
RLA	A	345	374	402	423
Compressor	Type	Screw			
	Starting mode	Y-Δ			
	Quantity	2	2	2	2
Refrigerant charge volume	kg	180+180	190+190	210+210	210+210
Refrigeration oil	Type	CPI-Solest-170			
	Charge volume	L	28	28	28
Evaporator	Type	Evaporator			
	Fouling factor	m ² ·c/kW	0.0176	0.0176	0.0176
	Water flow volume	m ³ /h	206	224	241
		GPM	909	984.8	1060
	Pressure drop	kPa	99	90	88
Connection pipe	Flange				
Condenser	Type	Condenser			
	Fouling factor	m ² ·c/kW	0.044	0.044	0.044
	Water flow volume	m ³ /h	258	280	301
		GPM	1136	1231	1325
	Pressure drop	kPa	104	105	104
Connection pipe	Flange				
Outline dimension (WxDxH)	mm	4550x1800x2200	4550x1800x2200	4550x1800x2200	4550x1800x2200
Net/Operating weight	kg	7790/8250	7850/8300	7900/8400	7950/8450

Note: The product models are not for EU.

CENTRIFUGAL CHILLER

CE Series Centrifugal Chiller

CVE Series Permanent Magnet
Synchronous Inverter Centrifugal Chiller

CC Series Magnetic Bearing Inverter Centrifugal Chiller

₹134a

CE Series Centrifugal Chiller

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(°C)	Outlet(°C)	Inlet(°C)	Outlet(°C)	Outlet(°C)	I/O difference(°C)	Inlet(°C)	I/O difference(°C)
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	380/3/50	380/3/50	380/3/50	380/3/50	380/3/50	380/3/50	
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	
Compressor	Type	Centrifugal						
	Starting mode	Y-Δ						
	Quantity	1	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 ·°C/kW	0.018	0.018	0.018	0.018	0.018	0.018
	Water flow rate	L/s	53.05	60.62	68.2	75.78	83.36	90.93
		GPM	840.9	961	1081	1201.0	1321.0	1442.0
	Pressure drop	kPa	54.2	57.3	62.4	62.5	68.2	67.9
		ft.WG	17.8	18.8	20.5	20.5	22.4	22.3
Connection pipe	mm	DN200	DN200	DN250	DN250	DN250	DN250	
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	66.28	75.77	84.69	94.02	103.20	112.50
		GPM	1051	1201	1343	1490.0	1635.0	1784.0
	Pressure drop	kPa	62.7	62.8	63.1	65.8	63.5	62.8
		ft.WG	20.6	20.6	20.7	21.6	20.8	20.6
Connection pipe	mm	DN200	DN200	DN250	DN250	DN250	DN250	
Sound pressure level(Max.)	dB(A)	82	82	82	82	82	82	
Dimension	Outline(WxDxH)	mm	3850x1810x2220	3850x1810x2220	4300x1850x2310	4300x1850x2310	4250x1910x2370	4250x1910x2370
	Package(WxDxH)	mm	3950x1950x2450	3950x1950x2450	4400x1900x2550	4400x1900x2550	4400x2000x2600	4400x2000x2601
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	set	1	1	1	1	1	

Model		CE410PIEKIE	CE411PIDKID	CE420PICKIC	CE421PIKBIB	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	380/3/50	380/3/50	380/3/50	380/3/50	380/3/50	380/3/50	
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	
Compressor	Type	Centrifugal						
	Starting mode	Y-Δ						
	Quantity	1	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	60	80	80
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	98.51	106.1	113.7	121.2	128.8	136.4
		GPM	1562.0	1682.0	1802.0	1922.0	2042.0	2162.0
	Pressure drop	kPa	63.3	61.5	64.9	60.2	61.8	60.2
		ft.WG	20.8	20.2	21.3	19.8	20.3	19.7
Connection pipe	mm	DN250	DN250	DN250	DN250	DN250	DN300	
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	122.30	131.60	140.80	150.10	159.60	168.90
		GPM	1938.0	2086.0	2232.0	2379.0	2529.0	2677.0
	Pressure drop	kPa	57.2	57	58.2	58.5	60.2	66.1
		ft.WG	18.8	18.7	19.1	19.2	19.7	21.7
Connection pipe	mm	DN250	DN250	DN250	DN250	DN250	DN300	
Sound pressure level(Max.)	dB(A)	83	83	83	83	84	84	
Dimension	Outline(WxDxH)	mm	4550x2010x2390	4550x2010x2390	4550x2010x2390	4550x2010x2390	4550x2010x2390	4980x2210x2610
	Package(WxDxH)	mm	4700x2100x2600	4700x2100x2600	4700x2100x2600	4700x2100x2600	4700x2100x2600	5100x2300x2850
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	set	1	1	1	1	1	



CVE Series Permanent Magnet Synchronous Inverter Centrifugal Chiller

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(°C)	Outlet(°C)	Inlet(°C)	Outlet(°C)	Outlet(°C)	I/O difference(°C)	Inlet(°C)	I/O difference(°C)
12.2	6.7	29.4	34.9	5~15	2.5~8	12~35	3.5~8

Model		CVE210HG4GG4	CVE210HG3GG3	CVE220HG2GG2	CVE220HG1GG1	CVE310LG1HG1	CVE320MH4HH2	
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	380/3/50	380/3/50	380/3/50	380/3/50	380/3/50	380/3/50	
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	
Compressor	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 ·°C /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 ·°C /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(WxDxH)	mm	3770x1590x1850	3770x1590x1850	3770x1590x1850	3770x1590x1850	3850x1810x2220	4300x1850x2150
	Package(WxDxH)	mm	3900x1750x2050	3900x1750x2050	3900x1750x2050	3900x1750x2050	3950x1950x2350	4450x1950x2350
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	set	1	1	1	1	1	

Model		CVE320MH3HH1	CVE410MH2JH2	CVE410MH1JH1	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	380/3/50	380/3/50	380/3/50	380/3/50	380/3/50	380/3/50	
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	
Compressor	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	40
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	75.78	83.36	90.93	98.51	106.10	113.70
		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	64.9
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 ·°C /kW	0.044	0.044	0.044	0.044	0.044	0.044
	Water flow volume	L/s	93.90	102.90	112.50	121.67	131.20	140.10
		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	57.8
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(WxDxH)	mm	4300x1850x2150	4250x1910x2210	4250x1910x2210	4550x2010x2300	4550x2010x2300	4550x2010x2300
	Package(WxDxH)	mm	4450x1950x2350	4400x2100x2450	4400x2100x2450	4700x2100x2500	4700x2100x2500	4700x2100x2500
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	set	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	380/3/50	380/3/50	380/3/50	380/3/50	380/3/50	380/3/50	
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						
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	50
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	121.10	128.80	136.40	144.00	151.60	166.70
		GPM	1922.0	2042.0	2162.0	2282.0	2403.0	2643.0
	Pressure drop	kPa	60.2	61.8	60.2	59.2	59.3	60.1
		ft.WG	19.8	20.3	19.7	19.4	19.4	19.7
Connection pipe	mm	DN250	DN250	DN300	DN300	DN300	DN300	
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	149.50	159.20	167.90	177.40	186.50	205.50
		GPM	2370.0	2523.0	2661.0	2813.0	2956.0	3257.0
	Pressure drop	kPa	58.1	59.9	65.4	66.2	66.2	67.4
		ft.WG	19.1	19.7	21.5	21.7	21.7	22.1
Connection pipe	mm	DN250	DN250	DN300	DN300	DN300	DN300	
Sound pressure level(Max.)	dB(A)	88	88	88	88	88	88	
Dimension	Outline(WxDxH)	mm	4550x2010x2300	4550x2010x2300	4980x2210x2500	4980x2210x2500	4980x2210x2500	4980x2310x2600
	Package(WxDxH)	mm	4700x2100x2500	4700x2100x2500	5100x2370x2750	5100x2370x2750	5100x2370x2750	5100x2600x2850
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	set	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.
 - Standard unit's water side bearing pressure is 1.0MPa; 1.6MPa is an available option.
 - Scale factors of chilled water and cooling water are 0.018m²·°C /kW and 0.044m²·°C /kW respectively.
 - 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.
 - 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.
 - 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.

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	380/3/50	380/3/50	380/3/50	380/3/50	380/3/50	380/3/50	
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	
Compressor	Type	Centrifugal						
	Starting mode	Variable Frequency Drives						
	Quantity	1						
Refrigerant charge volume	kg	210	235	250	280	300	320	
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	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	57.1
		ft.WG	10	10.3	10.2	10.5	10.3	18.7
Connection pipe	mm	DN150	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	DN150	DN200	
Sound pressure level(Max.)	dB(A)	78	78	78	78	78	78	
Dimension	Outline(WxDxH)	mm	3320x1140x1900	3320x1140x1900	3320x1140x1900	3330x1180x1900	3330x1180x1900	3770x1590x1950
	Package(WxDxH)	mm	3500x1360x2100	3500x1360x2100	3500x1360x2100	3500x1400x2100	3500x1400x2100	3900x1750x2050
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	set	1	1	1	1	1	

Model		CC310HG4GG4	CC310HG3GG3	CC320HG2GG2	CC320HG1GG1	CC410MH4HH2	CC410MH3HH1	
Cooling capacity	kW	879	967	1055	1231	1406	1582	
	RT	250	275	300	350	400	450	
EER	W/W	6.16	6.06	6.34	6.24	6.42	6.48	
IPLV	W/W	10.03	10.27	10.16	10.58	10.16	10.50	
Power supply	V/Ph/Hz	380/3/50	380/3/50	380/3/50	380/3/50	380/3/50	380/3/50	
Power input	kW	142.7	159.6	166.4	197.2	219.1	244.2	
RLA	A	219.0	244.9	255.3	302.7	336.2	374.7	
Compressor	Type	Centrifugal						
	Starting mode	Variable Frequency Drives						
	Quantity	1	1	1	1	1	1	
Refrigerant charge volume	kg	350	375	400	425	450	550	
Evaporator	Type	Flooded						
	Fouling factor	㎡·°C/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	57.0	56.8	56.8	57.0	50.8	52.0
		ft.WG	18.7	18.6	18.6	18.7	16.7	17
Connection pipe	mm	DN200	DN200	DN200	DN200	DN200	DN250	
Condenser	Type	Shell and Tube						
	Fouling factor	㎡·°C/kW	0.044	0.044	0.044	0.044	0.044	0.044
	Water flow volume	L/s	47.28	52.13	56.51	66.07	75.22	84.51
		GPM	749.4	826.3	895.8	1047.0	1192.0	1340.0
	Pressure drop	kPa	53.6	53.9	53.3	53.6	51.3	54.7
		ft.WG	17.6	17.7	17.5	17.6	16.8	17.9
Connection pipe	mm	DN200	DN200	DN200	DN200	DN200	DN250	
Sound pressure level(Max.)	dB(A)	78	78	78	78	80	80	
Dimension	Outline(WxDxH)	mm	3770x1590x1950	3770x1590x1950	3770x1590x1950	3770x1590x1950	4300x1850x2330	4300x1850x2330
	Package(WxDxH)	mm	3900x1750x2050	3900x1750x2050	3900x1750x2050	3900x1750x2050	3950x1950x2350	4450x1950x2350
Net/Gross/Operating weight	kg	4833/5233/5350	4941/5341/5450	5008/5408/5600	5146/5646/5700	6335/6835/7150	6410/6910/7250	
Loading quantity	40'GP/40'HQ	set	1	1	1	1	1	

Model		CC410MH1HH1	CC510MH2JH2	CC510MH1JH1	
Cooling capacity	kW	1758	1934	2110	
	RT	500	550	600	
EER	W/W	6.37	6.64	6.55	
IPLV	W/W	10.76	10.84	11.08	
Power supply	V/Ph/Hz	380/3/50	380/3/50	380/3/50	
Power input	kW	276.1	291.2	322.1	
RLA	A	423.5	447.0	494.3	
Compressor	Type	Centrifugal			
	Starting mode	Variable Frequency Drives			
	Quantity	1	1	1	
Refrigerant charge volume	kg	575	600	625	
Evaporator	Type	Flooded			
	Fouling factor	㎡·°C/kW	0.018	0.018	0.018
	Water flow rate	L/s	75.78	83.36	90.93
		GPM	1201.0	1321.0	1442.0
	Pressure drop	kPa	49.3	68.2	67.9
		ft.WG	16.2	22.4	22.3
Connection pipe	mm	DN250	DN250	DN250	
Condenser	Type	Shell and Tube			
	Fouling factor	㎡·°C/kW	0.044	0.044	0.044
	Water flow volume	L/s	94.12	103.00	112.50
		GPM	1492.0	1632.0	1784.0
	Pressure drop	kPa	65.9	63.3	62.8
		ft.WG	21.6	20.8	20.6
Connection pipe	mm	DN250	DN250	DN250	
Sound pressure level(Max.)	dB(A)	80	80	80	
Dimension	Outline(WxDxH)	mm	4250x1850x2330	4250x1910x2210	4250x1910x2210
	Package(WxDxH)	mm	4450x1950x2350	4400x2100x2450	4400x2100x2450
Net/Gross/Operating weight	kg	6400/6900/7250	7604/8104/8550	7720/8220/8650	
Loading quantity	40'GP/40'HQ	set	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.
 - Standard unit's water side bearing pressure is 1.0MPa; 1.6MPa is an available option.
 - Scale factors of chilled water and cooling water are 0.018m²·°C/kW and 0.044m²·°C/kW respectively.
 - 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.
 - For compressor using inverter starter, starting current < rated current; power factor is 0.995.
 - 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.

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

Control system	Product series	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*

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-34LM/C-K	FP-51LM/C-K	FP-68LM/C-K	FP-85LM/C-K	FP-102LM/C-K	FP-136LM/C-K	FP-170LM/C-K	FP-204LM/C-K
Air flow volume(H/M/L)	m³/h		340/255/170	510/383/255	680/510/340	850/638/425	1020/765/510	1360/1020/680	1700/1275/850	2040/1530/1020
	CFM		200/150/100	300/225/150	400/300/200	500/375/250	600/450/300	800/600/400	1000/750/500	1200/900/600
ESP	Pa		0	0	0	0	0	0	0	0
Capacity	Cooling/Heating	kW	1.65/1.9	2.55/2.9	3.3/3.8	4.1/4.7	4.9/5.6	6.4/7.4	8/9.2	9.7/11.1
		Ph/V/Hz	1/220~240/50	1/220~240/50	1/220~240/50	1/220~240/50	1/220~240/50	1/220~240/50	1/220~240/50	1/220~240/50
Power system	Type	W	35	54	66	84	101	150	154	198
	Input									
Water system	Water flow volume	l/s	0.08	0.12	0.16	0.2	0.23	0.31	0.38	0.46
		kPa	20	30	30	30	45	45	45	45
	Pressure drop	Ft.WG	6.56	9.84	9.84	9.84	14.76	14.76	14.76	14.76
dB(A)			37	38	41	44	46	46	48	51
Dimension (Wx-DxH)	Outline	mm	845x230x680	1145x230x680	1145x230x680	1295x230x680	1295x230x680	1745x230x680	1745x230x680	1745x230x680
	Package	mm	945x280x790	1245x280x790	1245x280x790	1395x280x790	1395x280x790	1845x280x790	1845x280x790	1845x280x790
Net weight/Gross weight		kg	28	33	37	39	44	54	60	65
Connection pipe diameter	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	set	440/484	340/374	340/374	270/297	270/297	190/209	190/209	190/209
Optional controller	Wired remote	-	Luxury wired controller:WK-010PA-K/LCD controller:WK-110PA0							

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.

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
	Type	Ph/V/Hz	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50
Power system	Input	W	45	66	71	90	113	169	186	216
	Water flow volume	l/s	0.12	0.18	0.22	0.26	0.30	0.40	0.48	0.49
Water system	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 (WxDxH)	Outline	mm	881x510x245	1011x510x245	1131x510x245	1211x510x245	1371x510x245	1761x510x245	1921x510x245	1921x510x245
	Package	mm	900x275x610	1030x275x610	1150x275x610	1230x275x610	1390x275x610	1780x275x610	1940x275x610	1940x275x610
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 diameter	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	set	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							

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	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
	Type	Ph/V/Hz	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50
Power system	Input	W	45	66	71	84	113	169	186	216
	Water flow volume	l/s	0.13	0.18	0.24	0.27	0.34	0.43	0.53	0.54
Water system	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 (WxDxH)	Outline	mm	881x510x245	1011x510x245	1131x510x245	1211x510x245	900x275x610	1030x275x610	1150x275x610	1230x275x610
	Package	mm	1371x510x245	1761x510x245	1921x510x245	1921x510x245	1390x275x610	1780x275x610	1940x275x610	1940x275x610
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 diameter	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	set	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 (°C)	WB (°C)	Inlet (°C)	Outlet (°C)
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	680	800/665/590	940/770/670	1090/860		
	CFM	300	400	470/385/347	553/453/394	641/506/447		
Capacity	Cooling/Heating	kW	2.75/3.4	3.6/4.2	4.5/5.4	5.0/6.1	6.0/6.9	
	Type	Ph/V/Hz	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	
Power system	Input	W	73	73	81	110	100.00	
	Water flow volume	l/s	0.13	0.18	0.22	0.24	0.29	
Water system	Power system	kPa	15	28	27	34	21.00	
		Ft.WG	4.92	9.18	8.86	11.15	6.89	
Sound pressure level	dB(A)	46	46	39	49	43.00		
Body	Dimension (WxDxH)	Outline	mm	664x594x292	664x594x292	840x840x190	840x840x190	840x840x240
		Package	mm	776x730x285	776x730x285	960x960x257	960x960x257	960x960x310
	Net weight/Gross weight	kg	20/24	20/24	25/33	25/33	27/35	
Panel	Dimension (WxDxH)	Outline	mm	670x670x25	670x670x25	950x950x85	950x950x85	950x950x85
		Package	mm	670x670x60	670x670x60	1030x1030x118	1030x1030x118	1030x1030x118
	Net weight/Gross weight	kg	7/11	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	set	329/376	329/376	131/147	131/147	117/133	
Standard controller	Wireless 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)	FP-200XD/D-K(E)	
Air flow volume(H/M/L)		m³/h	1400/1160/1000	1500/1200/1000	1640/1360/1200	1700/1430/1150	
		CFM	823/682/588	882/706/588	964/800/706	1000/841/676	
Capacity	Cooling/Heating	kW	7.4/8.4	8.4/9.0	9.5/10.05	11.1/11.7	
	Type	Ph/V/Hz	1/220~240/50	1/220~240/50	1/220~240/50	1/220~240/50	
Power system	Input	W	143	152	160	140	
	Water flow volume	l/s	0.35	0.40	0.45	0.53	
Water system	Power system	kPa	30	30	33	25	
		Ft.WG	9.84	9.84	10.82	8.20	
Sound pressure level		dB(A)	50	51	50	55	
Body	Dimension (WxDxH)	Outline	mm	840x840x240	840x840x240	840x840x320	840x840x320
		Package	mm	960x960x310	960x960x310	960x960x394	960x960x394
	Net weight/Gross weight	kg	27/35	27/35	32/41	32/41	
Panel	Dimension (WxDxH)	Outline	mm	950x950x85	950x950x85	950x950x85	950x950x85
		Package	mm	1030x1030x118	1030x1030x118	1030x1030x118	1030x1030x118
	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"	
	Condensed water drain	inch(mm)	33	33	33	33	
Loading quantity	40'GP/40'HQ	set	117/133	117/133	98/112	98/112	
Standard controller	Wireless remote	-	YB1FA (X-FAN)	YB1FA(X-FAN)	YB1FA(X-FAN)	YB1FA(X-FAN)	
Optional controller	Wired remote	-	Z4E351B	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	
	Type	Ph/V/Hz	1/220~240/50	1/220~240/50	1/220~240/50	1/220~240/50	
Power system	Input	W	82	90	135	191	
	Water flow volume	l/s	0.16	0.21	0.28	0.34	
Water system	Pressure drop(cooling)	kPa	30	30	40	40	
		Ft.WG	9.84	9.84	13.12	13.12	
Sound pressure level		dB(A)	39	40	27	50	
Body	Dimension (WxDxH)	Outline	mm	840x840x190	840x840x190	840x840x240	840x840x320
		Package	mm	960x960x257	960x960x257	960x960x310	960x960x394
	Net weight/Gross weight	kg	25/33	25/33	27/35	32/41	
Panel	Dimension (WxDxH)	Outline	mm	950x950x85	950x950x85	950x950x85	950x950x85
		Package	mm	1030x1030x118	1030x1030x118	1030x1030x118	1030x1030x118
	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"	
	Condensed water drain	inch(mm)	33	33	33	33	
Loading quantity	40'GP/40'HQ	set	131/147	131/147	117/133	98/112	
Standard controller	Wireless remote	-	YB1FA (X-FAN)	YB1FA (X-FAN)	YB1FA (X-FAN)	YB1FA (X-FAN)	
Optional controller	Wired remote	-	Z4E351B	Z4E351B	Z4E351B	Z4E351B	

Fan Coil Unit

Floor Ceiling Type



Inner groove copper



Washable filter



Anti-cold function



Quiet function



Auto clean



Multi fan speed



Self-diagnosis



Compact design

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



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

Floor Ceiling Type

Model			FP-34ZD-K (E)	FP-51ZD-K (E)	FP-68ZD-K (E)	FP-85ZD-K (E)	FP-102ZD-K (E)	FP-136ZD-K (E)	FP-170ZD-K (E)	FP-204ZD-K (E)	
Air flow volume(H/M/L)		m³/h	400/300/210	510/400/310	680/550/450	690/570/485	910/756/600	1030/854/700	1800/1260/850	1940/1500/1050	
		CFM	235/176/124	300/235/182	400/324/265	406/335/285	535/445/353	606/502/412	1059/741/500	1141/882/618	
Capacity	Cooling	kW	1.9	2.8	3.5	3.6	5.2	6.35	8.9	9.9	
	Heating	kW	2.4	3.4	4.1	4.2	6	6.7	10.8	12.2	
Power system	Type	Ph/V/Hz	1/220~240/50	1/220~240/50	1/220~240/50	1/220~240/50	1/220~240/50	1/220~240/50	1/220~240/50	1/220~240/50	
	Input	W	46	65	76	84	95	96	152	200	
Water system	Water flow volume	l/s	0.09	0.13	0.17	0.17	0.25	0.30	0.43	0.47	
		Pressure drop(cooling)	kPa	20	20	32	16	80	99	115	100
			Ft.WG	6.56	6.56	10.50	5.25	26.24	32.47	37.72	32.80
Sound pressure level		dB(A)	37	38	45	47	49	48	50	55	
Dimension (WxDxH)	Outline	mm	834X238X694	834X238X694	834X238X694	834X238X694	1300X188X60	1300X188X60	1390x238x694	1300x238x694	
	Package	mm	963X333X845	963X333X845	963X333X845	963X333X845	1417X251X739	1417X251X739	1771X333X845	1771X333X845	
Net weight/Gross weight		kg	26/33	26/33	26/33	26/33	34/40	34/40	48.5/57	48.5/57	
Connection pipe diameter	Water inlet & outlet	inch(mm)	3/4'(19.05)	3/4'(19.05)	3/4'(19.05)	3/4'(19.05)	3/4'(19.05)	3/4'(19.05)	3/4'(19.05)	3/4'(19.05)	
	Condensed water drain	inch(mm)	5/8'(15.6)	5/8'(15.6)	5/8'(15.6)	5/8'(15.6)	5/8'(15.6)	5/8'(15.6)	5/8'(15.6)	5/8'(15.6)	
Loading quantity	40'GP/40'HQ	set	224/267	224/267	224/267	224/267	220/244	220/244	111/117	111/117	
Standard controller	Wireless remote	-	YB1FA	YB1FA	YB1FA	YB1FA	YB1FA	YB1FA	YB1FA	YB1FA	
Optional controller	Wired remote	-	Z4E351B	Z4E351B	Z4E351B	Z4E351B	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(°C)	WB(°C)	Inlet(°C)	Outlet(°C)
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)	FP-34BB3/A-K(E)	FP-51BB3/A-K(E)
Air flow volume(H/M/L)		m³/h	360/320/280	550/410/360	680/590/530	850/700/600	360/320/290	550/390/340
		CFM	212/189/166	324/243/216	400/348/311	500/411/352	212/189/166	324/243/216
Capacity	Cooling	kW	2	2.5	3.6	4	1.8	2.4
	Heating	kW	2.3	2.8	4.1	4.5	2.3	2.6
Power system	Type	Ph/V/Hz	1/220~240/50	1/220~240/50	1/220~240/50	1/220~240/50	1/220~240/50	1/220~240/50
	Input	W	50	50	60	66	36	42
Water system	Water flow volume	l/s	0.10	0.12	0.17	0.19	0.09	0.11
	Power system	kPa	18	25	52	60	18	25
		FLWG	5.90	8.20	17.06	19.68	5.90	8.20
Sound pressure level		dB(A)	35	40	43	48	35	40
Dimension (WxDxH)	Outline	mm	845x180x275	845x180x275	940x200x298	940x200x298	845x180x275	845x180x275
	Pressure drop	mm	915x255x355	915x255x355	1010x285x380	1010x285x380	915x255x355	915x255x355
Net weight/Gross weight		kg	10/12.5	10/12.5	12/16	13/17	10/12.5	10/12.5
Connetion pipe diameter	Water inlet & outlet	inch(mm)	Φ1/2(12.7)	Φ1/2(12.7)	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)	Φ5/8(15.6)	Φ5/8(15.6)
Loading quantity	40'GP/40'HQ	set	765/850	765/850	595/671	595/671	765/850	765/850
Standard controller	Wireless remote	-	YB1FA(XFAN)	YB1FA(XFAN)	YB1FA(XFAN)	YB1FA(XFAN)	YB1FA(XFAN)	YB1FA(XFAN)
Optional controller	Wired remote	-	Z4E351B	Z4E351B	Z4E351B	Z4E351B	Z4E351B	Z4E351B

Model			FP-68BB3/A-K(E)	FP-85BB3/A-K(E)	FP-34BA3/B-K	FP-51BA3/B-K	FP-68BA3/B-K	FP-85BA3/B-K
Air flow volume(H/M/L)		m³/h	680/600/530	850/708/616	360/322/282	510/413/367	680/591/532	830/708/616
		CFM	400/324/282	500/417/363	212/189/166	300/243/216	400/348/313	488/417/363
Capacity	Cooling	kW	3.5	4.6	1.85	2.65	3.5	4.55
	Heating	kW	3.7	4.9	2.45	3.05	3.85	4.8
Power system	Type	Ph/V/Hz	1/220~240/50	1/220~240/50	1/220~240/50	1/220~240/50	1/220~240/50	1/220~240/50
	Input	W	51	65	30	30	40	60
Water system	Water flow volume	l/s	0.17	0.22	0.09	0.13	0.17	0.22
	Power system	kPa	52	62	13	25	40	65
		FLWG	17.05	20.33	4.26	8.20	13.11	21.31
Sound pressure level		dB(A)	43	48	35	40	43	48
Dimension (WxDxH)	Outline	mm	940x200x298	940x200x298	845x180x275	845x180x275	940x200x298	940x200x298
	Pressure drop	mm	1010x285x380	1010x285x380	915x255x355	915x255x355	1010x285x380	1010x285x380
Net weight/Gross weight		kg	12/16.0	12/16.0	8.8/11.8	8.8/11.8	10.8/14.8	10.8/14.8
Connetion pipe diameter	Water inlet & outlet	inch(mm)	Φ1/2(12.7)	Φ1/2(12.7)	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)	Φ5/8(15.6)	Φ5/8(15.6)
Loading quantity	40'GP/40'HQ	set	595/671	595/671	765/850	765/850	595/671	595/671
Standard controller	Wireless remote	-	YB1FA(XFAN)	YB1FA(XFAN)	YB1FA(XFAN)	YB1FA(XFAN)	YB1FA(XFAN)	YB1FA(XFAN)
Optional controller	Wired remote	-	Z4E351B	Z4E351B	Z4E351B	Z4E351B	Z4E351B	Z4E351B

Model			FP-51BWA2/A-K(E)	FP-85BWA2/A-K(E)	FP-51BWA3/A-K(E)	FP-85BWA3/A-K(E)	FP-34BA3/D-K(E)	FP-51BA3/D-K(E)
Air flow volume(H/M/L)		m ³ /h	450/383/323	650/560/490	450/383/323	650/560/490	360/320/290	550/390/340
		CFM	265/225/190	383/330/288	265/225/190	383/330/288	212/189/166	324/243/216
Capacity	Cooling	kW	1.40	3.10	1.40	3.10	2.00	2.50
	Heating	kW	2.00	3.30	2.00	3.30	2.30	2.80
Power system	Type	Ph/V/Hz	220-240-1-50	220-240-1-50	220-240-1-50	220-240-1-50	220-240-1-50	220-240-1-50
	Input	W	43	69	43	69	50	50
Water system	Water flow volume	l/s	0.078	0.106	0.078	0.106	0.110	0.133
	Pressure drop(cooling)	kPa	37.00	60.00	37.00	60.00	17.00	21.00
		Ft.WG	12.14	19.68	12.14	19.68	5.58	11.81
Sound pressure level		dB(A)	42	50	42	50	35	40
Dimension(WxDxH)	Outline	mm	840×180×275	940×200×298	840×180×275	940×200×298	845×180×275	840×180×275
	Package	mm	918×258×370	1013×288×395	918×258×370	1013×288×395	918×258×370	918×258×370
Net weight/Gross weight		kg	10/12.5	12/16	10/12.5	12/16	10/12.5	10/12.5
Connection pipe diameter	Water inlet & outlet	inch(mm)	Φ1/2(12.7)	Φ1/2(12.7)	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)	Φ5/8(15.6)	Φ5/8(15.6)
Loading quantity	40'GP/40'HQ	set	765/850	595/671	756/850	595/671	765/850	765/850
Standard controller	Wireless remote	-	YB1FA<XFAN>	YB1FA<XFAN>	YB1FA<XFAN>	YB1FA<XFAN>	YB1FA<XFAN>	YB1FA<XFAN>
Optional controller	Wired remote	-	-	-	-	-	-	-

Model			FP-34BA5/D-K(E)	FP-51BA5/D-K(E)	FP-68BA5/D-K(E)	FP-85BA5/D-K(E)
Air flow volume(H/M/L)		m ³ /h	360/320/290	550/390/340	680/600/530	850/708/616
		CFM	212/189/166	324/243/216	400/324/282	500/417/363
Capacity	Cooling	kW	2.00	2.50	3.60	4.00
	Heating	kW	2.30	2.80	4.10	4.50
Power system	Type	Ph/V/Hz	220-240-1-50	220-240-1-50	220-240-1-50	220-240-1-50
	Input	W	50	50	60	60
Water system	Water flow volume	l/s	0.110	0.133	0.167	0.194
	Pressure drop(cooling)	kPa	17.00	21.00	44.00	45.00
		Ft.WG	5.58	11.81	14.43	14.76
Sound pressure level		dB(A)	35	40	43	48
Dimension(WxDxH)	Outline	mm	845×180×275	840×180×275	940×200×298	940×200×298
	Package	mm	918×258×370	918×258×370	1013×288×395	1013×288×395
Net weight/Gross weight		kg	10/12.5	10/12.5	12/16	12/16
Connection pipe diameter	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	set	765/850	765/850	595/671	595/671
Standard controller	Wireless remote	-	YB1FA<XFAN>	YB1FA<XFAN>	YB1FA<XFAN>	YB1FA<XFAN>
Optional controller	Wired remote	-	-	-	-	-

Model			FP-68BA3/D-K(E)	FP-85BA3/D-K(E)	FP-34BA4/D-K(E)	FP-51BA4/D-K(E)	FP-68BA4/D-K(E)	FP-85BA4/D-K(E)
Air flow volume(H/M/L)		m ³ /h	680/600/530	850/708/616	360/320/290	550/390/340	680/600/530	850/708/616
		CFM	400/324/282	500/417/363	212/189/166	324/243/216	400/324/282	500/417/363
Capacity	Cooling	kW	3.60	4.00	2.00	2.50	3.60	4.00
	Heating	kW	4.10	4.50	2.30	2.80	4.10	4.50
Power system	Type	Ph/V/Hz	220-1-50	220-240-1-50	220-240-1-50	220-240-1-50	220-240-1-50	220-240-1-50
	Input	W	60	66	50	50	60	66
Water system	Water flow volume	l/s	0.167	0.194	0.110	0.133	0.167	0.194
	Pressure drop(cooling)	kPa	44.00	45.00	17.00	21.00	44.00	45.00
		Ft.WG	14.43	14.76	5.58	11.81	14.43	14.76
Sound pressure level		dB(A)	43	48	35	40	43	48
Dimension(WxDxH)	Outline	mm	940×200×298	940×200×298	845×180×275	840×180×275	940×200×298	940×200×298
	Package	mm	1013×288×395	1013×288×395	918×258×370	918×258×370	1013×288×395	1013×288×395
Net weight/Gross weight		kg	12/16	12/16	10/12.5	10/12.5	12/16	12/16
Connection pipe diameter	Water inlet & outlet	inch(mm)	Φ1/2(12.7)	Φ1/2(12.7)	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)	Φ5/8(15.6)	Φ5/8(15.6)
Loading quantity	40'GP/40'HQ	set	595/671	595/671	765/850	765/850	595/671	595/671
Standard controller	Wireless remote	-	YB1FA<XFAN>	YB1FA<XFAN>	YB1FA<XFAN>	YB1FA<XFAN>	YB1FA<XFAN>	YB1FA<XFAN>

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 C	5~40

Model		FM-1.25-9-K	FM-1.25-12-K
Power supply	V/Hz	220-240/50-60	220-240/50-60
Power input	W	110	140
Air flow volume	m ³ /h	1200	1650
Sound pressure level (H/L)	dB (A)	59	61
Dimension (W×D×H)	Outline	900x225x220	1200x225x220
	Package	1015x270x256	1315x270x256
Net weight /Gross weight	kg	16/18	20/22
Loading quantity	40'GP	set	660
	40'HQ	set	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

Control system		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)		○	○	○	
		ME30-17/E2(M)		○	○	○	
BMS accessories	Communication module (modbus)	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

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.
- LCD 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	Heat Pump	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	220-240/1/50	230/1/60	220-240/1/50	230/1/60	220-240/1/50	230/1/60	
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	285x408x295	285x408x295	380x408x310	380x408x310	380x440x330	380x440x330
	Package	mm	594x493x360	594x493x360	683x513x360	683x513x360	608x533x395	608x533x395
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 diameter	mm	22.2	22.2	22.2	22.2	22.2	22.2	
Loading quantity	40'GP	set	528	528	444	444	410	410
	40'HQ	set	616	616	518	518	492	492
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	Heat Pump	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	220-240/1/50	230/1/60	220-240/1/50	230/1/60	
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	464×481×330	464×481×330	624×538×386	624×538×386
	Package	mm	663×558×395	663×558×395	853×638×440	853×638×440
Net weight/Gross weight	kg	37.5/43.5	37.5/43.5	60.5/68.0	60.5/68.0	
Condenser pipe diameter	mm	25.4	25.4	25.4	25.4	
Loading quantity	40'GP	set	350	350	225	225
	40'HQ	set	420	420	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 Mosque 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 Pulit	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	Toccata	GMV5 Mini
Australia	Linq	GMV5 Mini
Australia	Unison	GMV5
Oman	ERA Real Estate	GMV5
Iraq	NawRoz City-500 Luxury Apartment	Super Free Match

Award and Certification

Country	Project Name	Installed Series
Iraq	Lebanese Village	DC Inverter GMV; U-Match; Super Free Match; Air Cooled Screw Chiller
Iraq	New Easkan 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	Ulengo 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

