



GREE ELECTRIC APPLIANCES, INC. OF ZHUHAI

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

HONG KONG GREE ELECTRIC APPLIANCES SALES LIMITED

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

Note:

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

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GC-2208-08



Distributor information



Air to Water Heat Pump
EU

MADE IN CHINA
LOVED BY THE WORLD



Gree Electric Appliances, Inc. of Zhuhai was founded in 1991 and was listed on the Shenzhen Stock Exchange in November 1996. At the beginning, Gree was only a company that assembled residential air conditioners. Now it has grown into a diversified global technological industrial group that has expanded its business to air conditioners, home appliances, high-end equipment and communication equipment under three brand names: GREE, KINGHOME and TOSOT. Gree is the number one brand of air conditioners in the world in 2020*.

- 2005 ● Gree has topped No.1 in production and sales volume of residential air conditioners for 14 consecutive years.
- 2015 ● Gree's sales revenue exceeded 15.08 billion USD.
- 2016 ● Gree's sales revenue exceeded 16.51 billion USD.
- 2017 ● Gree's sales revenue exceeded 22.21 billion USD.
- 2018 ● Gree entered into the list of Forbes Global 2000 again and ranked No. 294, moving up 70 places compared with the previous year. Gree's sales revenue exceeded 30.23 billion USD.
- 2019 ● Gree entered into Fortune Global 500. Gree's return on equity (ROE) ranked the first among the 129 Chinese enterprises on the list.
- 2020 ● **Gree has ranked the 436th on the list of Fortune Global 500.**

Thanks to 400 million users' choices, Gree brands are sold widely to more than 160 countries and regions. Action makes the future and innovation makes achievement. Looking forward, Gree will press ahead with its business philosophy of passion, innovation and realization. We aim to build a centenary air conditioning enterprise and create a better life for humankind..

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*Gree is the number one brand of air conditioners in the world in 2020;
Footnote: " Source Euromonitor International Limited; Consumer appliances 2021ed; retail volume sales in units, 2020 data. "



Source Euromonitor International Limited;
Consumer appliances 2020ed;
retail volume sales in units, 2019 data.

Key Features

DC Inverter Air to Water Heat Pump



Water tank



Indoor unit



Indoor unit



Outdoor unit



Monobloc

Eco-friendly — Create a Green World

Versati adopts R32, a new eco-friendly refrigerant which is harmless to the atmosphere. Moreover, with advanced heat pump technology and powerful hardware, the efficiency of Versati has been improved, resulting in much lower CO2 emission. It is an eco-friendly product, which mirrors your social commitment to protect the environment.

Versati, a DC inverter multifunctional air to water heat pump adopting advanced heat pump technology, absorbs natural heat from the ambient air and then release it for room heating. It not only satisfies room heating requirements but also supplies domestic hot water. Besides, Versati can also provide you cool air in hot summer. It is an All-in-One! Choose Versati, and enjoy a comfortable life all year round!



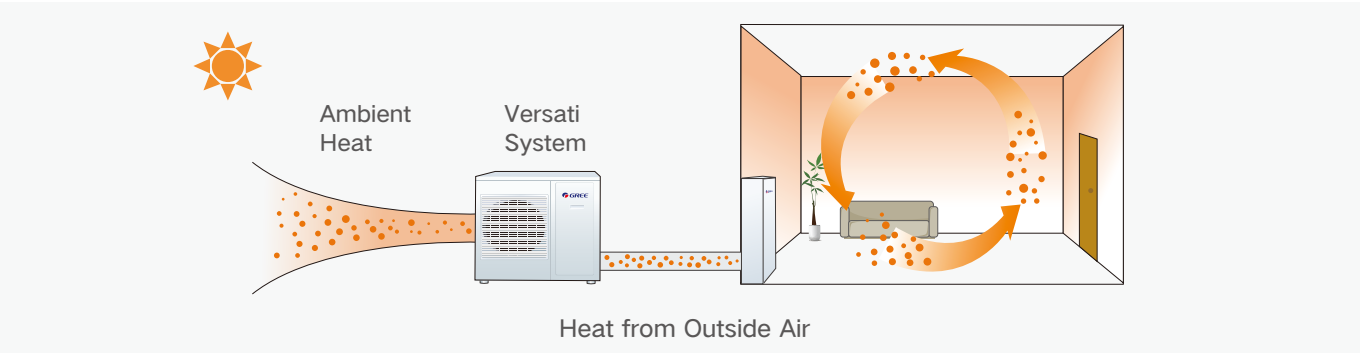
Outdoor Unit: Sustainable Energy Converter

Versati adopts DC inverter technology and the most efficient refrigerant R32 with zero ozone depletion, with excellent COP up to 5.06.



Heat Pump Technology Lows the Consumption and CO₂ Emissions

Versati based on heat pump technology, which extracts the heat energy from the outside air and increases its temperature for domestic heating purposes, greatly reduces the energy consumption and CO₂ emissions.



Super DC Inverter Technology

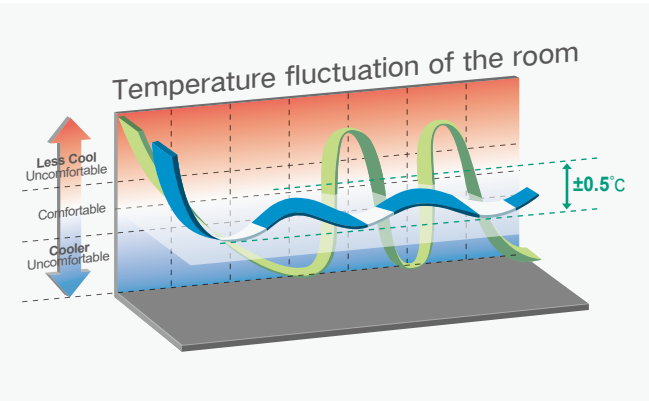
- **Twin Rotary DC Inverter Compressor**
Compared with traditional compressor, DC inverter compressor has the advantages of high performance and high efficiency.
- **DC Inverter System**
The inverter technology with high-power and high energy efficiency not only creates comfortable living circumstance, but also saves energy.
- **Traditional System**
ON and OFF frequently cause temperature fluctuation.

By adopting DC inverter technology, the compressor regulates its output according to the cooling/heating load to achieve higher energy efficiency.

DC inverter compressor optimizes its output which ensures high efficient operation.

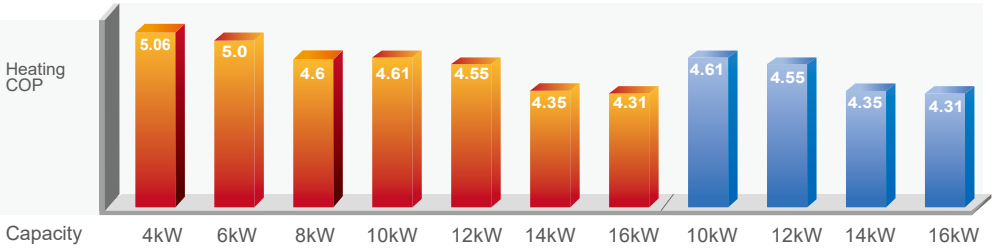
With stepless power regulation technology, the DC inverter compressor achieves stepless output regulation between 20Hz and 120Hz.

The 180 degree sine wave current output features in small startup current, small torque pulse and free speed regulation between 900 and 6600r/min. It enables the system to meet the temperature requirements of various circumstances, lowers the power consumption greatly and ensures comfortable use.



COP up to 5.0

With its perfect class COP performance, Versati delivers more heating power with less energy consumption. The maximum COP is up to 5.06

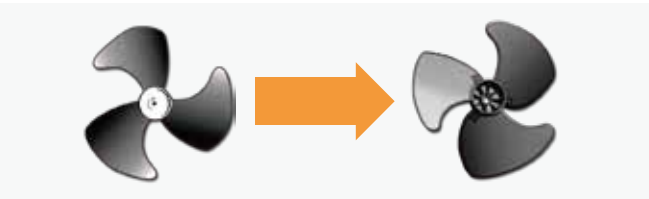


Note: ■ for 1Ph models, ■ for 3Ph models.

Test Standard: EN14511-2018

Fan and Motor

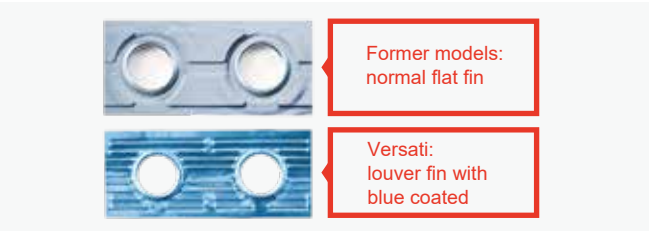
- **Efficient Axial Fan**
Efficient axial fan with its streamline design and huge air flow volume, offers powerful cooling capacity and ensures the stability and reliability of system.
- **DC Fan Motor**
The stepless adjustment of DC fan motor ensures higher air flow volume and lower power consumption.



Heat Exchanger

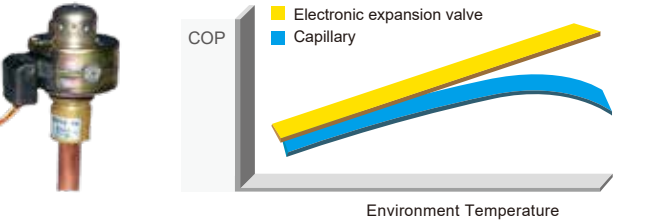
Compared with the common fin, the heat exchange efficiency of the louver fin is increased by 5%.

Special thickened inner groove copper pipe enhances the heat exchange performance by over 8%.



Electronic Expansion Valve

The electronic expansion valve is highly flexible. It can automatically adjust the throttle according to the refrigerant demand based on the stability of the system. It is more energy saving and stable than capillary.

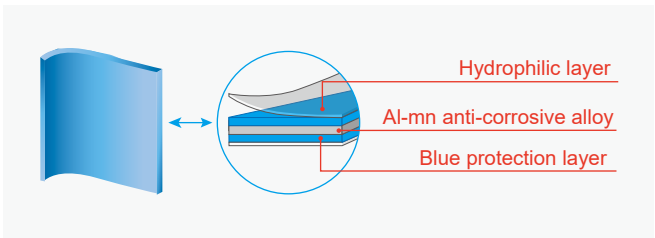


Comfort

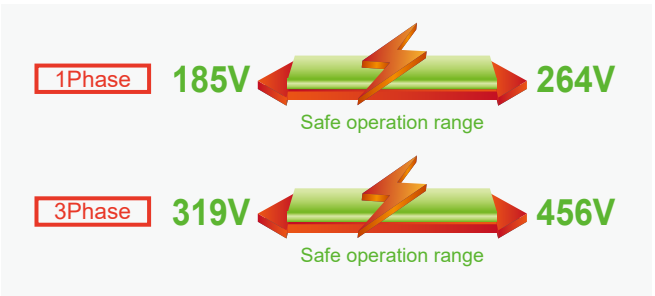
- **Precise Temperature Regulation**
The electronic expansion valve guarantees that the system make adjustments automatically according to the changes of the circumstance and water temperature.
- **Quiet Mode**
By adjusting the output of the compressor and fan, the operation noise of the unit can be decreased by more than 3dB(A), meeting the quiet requirement at night or in special occasions.

Reliability

Heat Exchange Anti-corrosion
Highly anti-corrosion blue hydrophilic coated aluminum fin has longer lifespan than common blue fin.



Wide Voltage Range Operation



Self-diagnosis of the Outdoor Unit

With the self-diagnosis function, the outdoor unit will start auto-protection if the power voltage or the current is out of the normal range. Protection will be cancelled automatically if the power condition resumes normal.

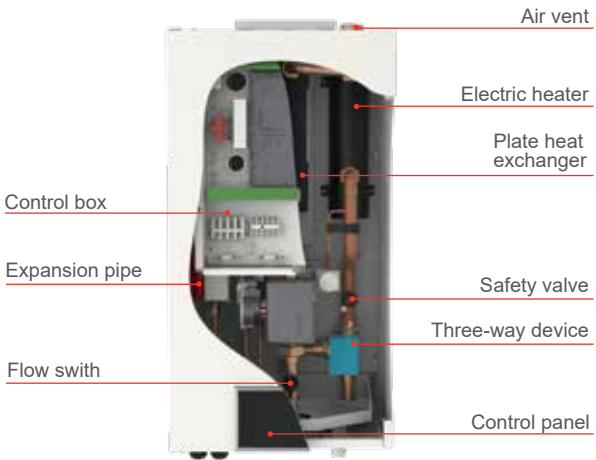
Compact Design

Compact design ensures larger load-space, thus, saving much transport costs.



Indoor Hydro: Heating/Cooling and Hot Water System

The indoor hydro-box transfers the heat in the refrigerant to the water circulated in the central heating radiators, under-floor heating system and sanitary hot water heating system and sanitary hot water tank. If you opt for the combination of heating and cooling, then the indoor unit can also decrease the water temperature to distribute a refreshing coolness.



High Efficiency

High COP plate heat exchanger



High efficient pump



Flexible and Compact Design



Compact design, easy for installation
Dimension (W×D×H) (mm)

460×318×860mm

Pressure safety, plate heat exchanger, expansion tank, water pump and control box all in one

Intelligent Temperature Control

The advanced control of the system is integrated in the indoor hydro unit. The timer can be programmed per hour or per day. In this way, the temperature is reduced automatically at night or during your holiday, but will be pleasantly warm when you get up or return home.

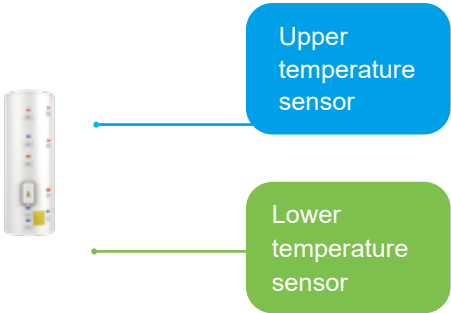


Comfort

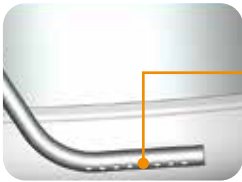
Smart Dual-temperature Detection Control Technology
ON and OFF control of the unit is realized by upper and lower temperature sensors, which renews water temperature in real time, thus ensuring the perfect timing of startup:

Avoid premature startup. Improve hot water yielding rate by accurate timing of hot / cold water mixture.

Avoid overdue startup. Improve hot water use rate and shorten the waiting time of reheating.



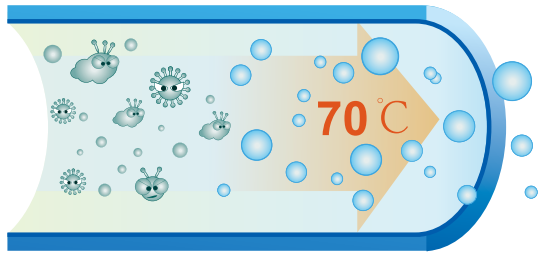
- Water is charged from the bottom and the water inlet pipe has equispaced water inlets, which can reduce cold water shock and enhance the service life of the tank.



Cold water inlet
pipe with
decentralized-
water inlets

Health

- The domestic water is sanitary and can be used directly.
- The enamel water tank and coil will not affect the water quality.
- 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 experience for the user.

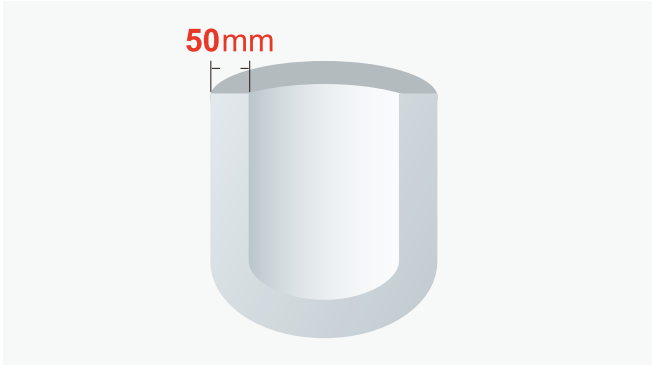


Flexibility

Dual-coil design makes it convenient to join solar panel or boiler.

Reliability

- Adopting bearing tank, the unit can replenish water when using water, ensuring rapid storage and continuous delivery.
- Magnesium stick protecting container contributes to longer lifespan.
- Thermal insulating layer 50mm in thickness.



Isolation of water and electricity ensures safe operation.

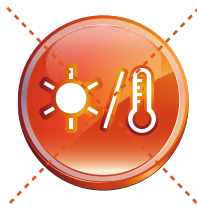
Water and electricity are completely separated so that electrical leakage is absolutely avoided. Advanced microcomputer control and complete protection functions help prevent electricity leakage, dry heating, over-high temperature, etc.



Dry heating



Electricity leakage



Over-high temperature

Flexible Applications

Five-Mode Operation

Heating

Cooling

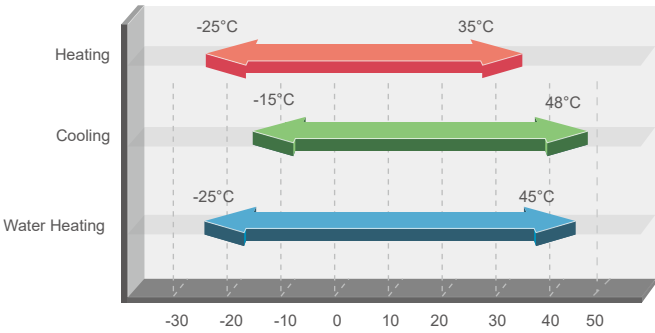
Water Heating

Heating + Water Heating

Cooling + Water Heating

Wide Range of Operation Temperature

Heating	-25~35°C
Cooling	-15~48°C
Water Heating	-25~45°C



Hot Water Temperature Range

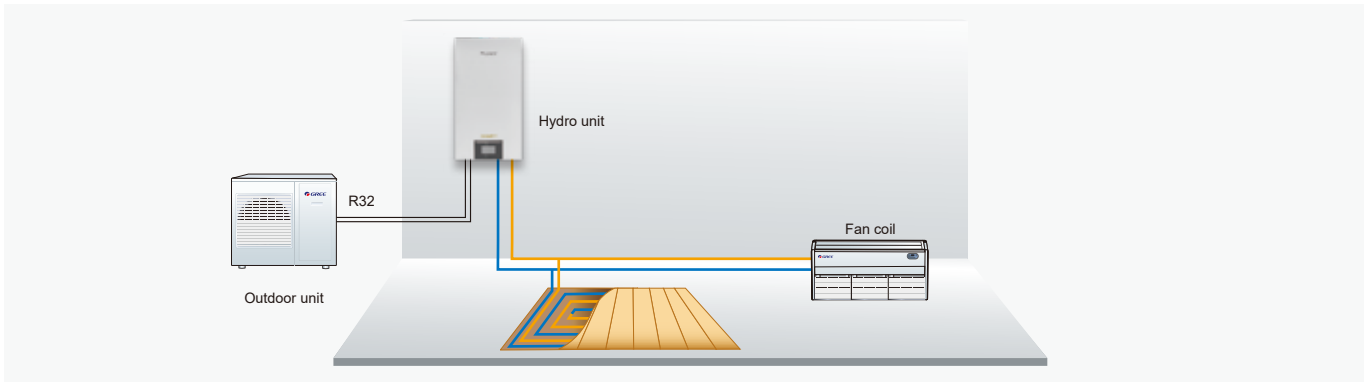
Domestic water: 40°C to 80°C

Heating: 20°C~60°C

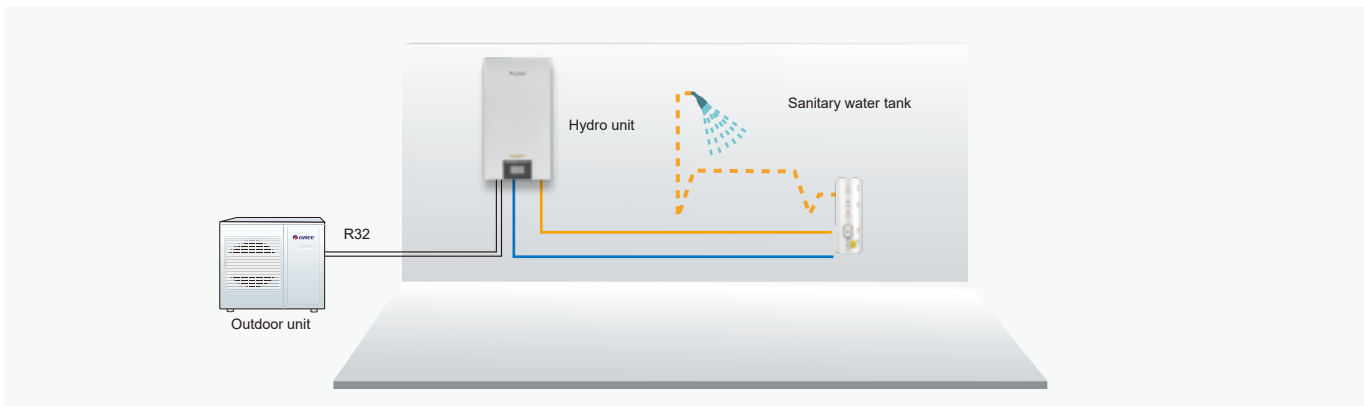
Cooling: 7°C~25°C

Combination Examples :

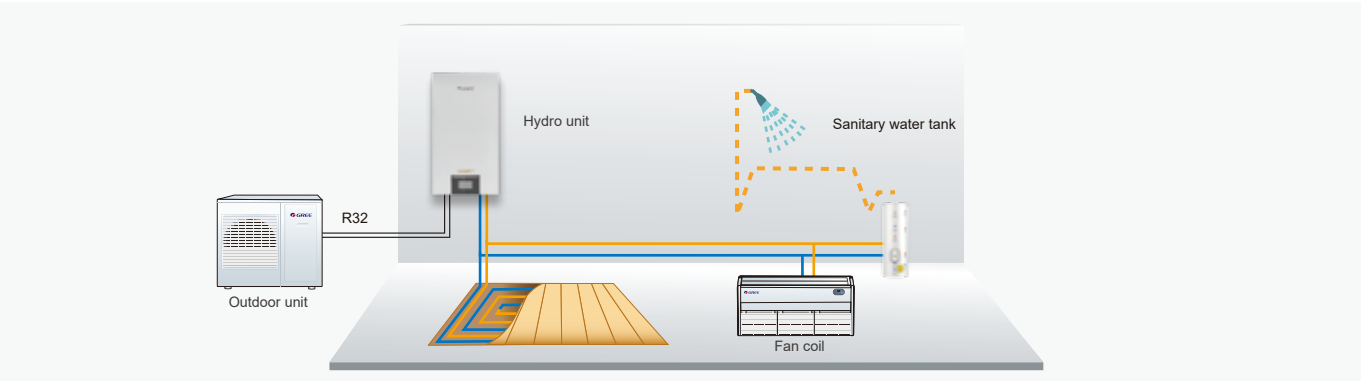
Heating / Cooling



Water Heating



● Heating / Cooling with Water Heating



Multiple Additional Functions and User-friendly Function

- Urgent Water Heating
The heat pump uses the backup electric heater in case that any fault occurs.
- Floor Protection
The heat pump uses the backup electric heater in case that any fault occurs.

Under floor heating
As for under floor heating, the default highest water temperature is 45°C so that it will not damage the floor or reduce its lifespan due to superheat. (The highest temperature of outlet water during heating operation is 55°C)

Under floor cooling
As for under floor cooling, the default lowest water temperature is 18°C so that it will not produce condensate which will damage the floor or reduce the lifespan of the floor. (The lowest temperature of outlet water during cooling operation is 7°C)
- Quick Water Heating
The heat pump and the electric heater of the water tank operate at the same time to realize rapid heating.
- Disinfection
The water will be heated to 70°C at set time to kill the bacteria in the water. The disinfection is usually carried out at night.
- Holiday Mode
When the user is on a trip in winter, the unit can be set to operate automatically so as to keep the room temperature between 10°C and 15°C.
- Weather-dependent Operation
The unit can automatically adjust the operation state according to the temperature range set by the user.
- User-friendly and Large LED Display.
- ON/OFF Timer
- Day/Weekly/Count-down Timer
- Weekly Programme
- Emergency Operation Mode(for Heating and Water Heating only)
- Forced Operation Mode
- Silent Mode
- Central Control

VERSATI IV (Monobloc Type) 134a

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



Inner groove copper

Quiet function

Weekly timer

Low temperature heating

Key-card control

Comprehensive protection

24 hour timer

Child lock

Wide operation range

Wide voltage range

Self-diagnosis

Low voltage startup

Memory function

Intelligent defrosting

°C/°F switch

Clock display

Long-distance monitoring

Golden fin condenser

- It adopts a two-stage compressor technology to improve the heating capacity and energy efficiency under low temperature, with A7W35 COP up to 5.4, and average climate SCOP 35°C , A+++.
- It can be combined with a fan coil unit, heat radiator, floor heating and a hot water tank to provide five working modes including cooling, heating and water heating.
- Versati is equipped with a 5-inch high-definition LCD touch screen, which provides 20 languages to suit users of different countries and regions.
- User can set the relationship between ambient temperature and room temperature. The targeted room temperature will change accordingly with room load and ambient temperature change so as to bring comfort to users and achieve energy saving.
- User can set the quiet time, for example, all day long or night time only, to improve the level of comfort.

Item	Water Side	Heat Source/User Side
	Leaving Water Temperature(℃)	Environment Dry Bulb Temperature(℃)
Cooling	5~25	-15~48
Heating	20~65	-25~35
Water Heating	40~80	-25~45

Specifications

Model			GRS-CQ4.0Pd/ NhG3-E	GRS-CQ6.0Pd/ NhG3-E	GRS-CQ8.0Pd/ NhG3-E	GRS-CQ10Pd/ NhG3-E	GRS-CQ12Pd/ NhG3-E	GRS-CQ14Pd/ NhG3-E	GRS-CQ16Pd/ NhG3-E
Capacity (Floor)	Cooling	kW	5.00	6.50	8.30	10.20	12.00	13.70	15.50
	Heating	kW	5.00	6.00	8.20	10.20	12.00	14.20	15.70
Power Input(Floor)	Cooling	kW	0.96	1.28	1.56	2.00	2.45	3.00	3.60
	Heating	kW	0.93	1.11	1.54	2.02	2.43	2.99	3.45
EER(Floor Cooling)		W/W	5.20	5.10	5.32	5.10	4.90	4.57	4.31
COP(Floor Heating)		W/W	5.40	5.40	5.32	5.05	4.94	4.75	4.55
Capacity (FanCoil)	Cooling	kW	4.90	5.70	7.40	9.00	11.10	13.30	13.80
	Heating	kW	4.90	6.80	8.30	10.20	13.00	14.20	16.20
Power input (FanCoil)	Cooling	kW	1.40	*	2.00	2.65	3.58	4.75	5.09
	Heating	kW	1.17	1.66	1.90	2.50	3.45	3.84	4.49
EER(Fan Coil)		W/W	3.50	3.25	3.70	3.40	3.10	2.80	2.71
COP(Fan Coil or Radiator)		W/W	4.20	4.10	4.36	4.08	3.77	3.70	3.61
Refrigerant charge volume		kg	0.95	0.95	1.60	1.60	2.20	2.20	2.20
Sanitary water temperature		℃	40~80	40~80	40~80	40~80	40~80	40~80	40~80
Sound pressure level	Cooling	dB(A)	51	52	52	54	54	55	56
	heating	dB(A)	53	53	54	56	56	58	59
Dimensions	Outline (W × D × H)	mm	1150	1150	1206	1206	1206	1206	1206
		mm	365	365	445	445	445	445	445
		mm	735	735	878	878	878	878	878
	Packaged (W × L × H)	mm	503	503	553	553	553	553	553
		mm	1258	1258	1338	1338	1338	1338	1338
		mm	900	900	1020	1020	1020	1020	1020
Net weight		kg	95	95	127.0	127.0	142.0	142.0	142.0
Gross weight		kg	112	112	146.0	146.0	161.0	161.0	161.0
Loading quantity	20 ' Container	unit	38	38	32	32	32	32	32
	40 ' Container	unit	82	82	66	66	66	66	66
	40 ' High Cube Container	unit	82	82	66	66	66	66	66

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

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

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

VERSATI III (Monobloc Type)



It's a kind of integrated DC inverter unit that comprises cooling, heating and water heating functions, and up to 5.0 energy efficiency. It adopts R32 refrigerant and two-stage compressor. For heating, ambient temperature range is -25~35℃ while the leaving water temperature range is 20~60℃.



4-8kW



10-16kW



Wired Controller ZF63011AJ



Golden fin condenser



Inner groove copper



High efficiency



Intelligent defrosting



Quiet function



Self-diagnosis



Low voltage startup



Low temperature heating



Wide operation range



Wide voltage range



Memory function



Compact design



Comprehensive protection



24 hour timer



Weekly timer



°C/°F switch



Clock display



Child lock



Key-card control



Long-distance monitoring

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

Item	Water Side	Heat Source/User Side
	Leaving Water Temperature(℃)	Environment Dry Bulb Temperature(℃)
Cooling	7~25	-15~48
Heating	20~60	-25~35
Water Heating	40~80	-25~45

Specifications

Model			GRS-CQ4.0Pd/NhG-K	GRS-CQ6.0Pd/NhG-K	GRS-CQ8.0Pd/NhG-K
Power supply	V/Ph/Hz		220~240/1/50	220~240/1/50	220~240/1/50
Capacity *1	Cooling *3	kW	3.8	5.8	6.8
	Heating *4	kW	4	6	7.5
Power input *1	Cooling *3	kW	0.82	1.32	1.60
	Heating *4	kW	0.78	1.20	1.60
EER/COP *1	W/W		4.63/5.06	4.4/5.0	4.4/4.6
Capacity *2	Cooling *5	kW	3	4	5
	Heating *6	kW	4	6	7.5
Power input *2	Cooling *5	kW	0.94	1.29	1.56
	Heating *6	kW	0.98	1.56	2
EER/COP *2	W/W		3.2/4.0	3.1/3.8	3.11/3.75
Refrigerant charge volume	kg		0.87	0.87	0.87
Sanitary water temperature	℃		40~80	40~80	40~80
Sound pressure level	Cooling	dB(A)	51	52	53
	Heating	dB(A)	50	50	51
Connecting pipe	Gas	inch(mm)	/	/	/
	Liquid	inch(mm)	/	/	/
Dimensions (W × D × H)	Outline	mm	1150 × 345 × 758	1150 × 345 × 758	1150 × 345 × 758
	Packaged	mm	1255 × 485 × 890	1255 × 485 × 890	1255 × 485 × 890
Net weight/Gross weight	kg		96	96	96
Loading quantity	40'GP	-	84	84	84
	40'HQ	-	84	84	84

Note:

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

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

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

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

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

With More Higher Pressure Water Pump Series

Model			GRS-CQ10Pd/NhG2-K	GRS-CQ12Pd/NhG2-K	GRS-CQ14Pd/NhG2-K	GRS-CQ16Pd/NhG2-K
Power supply	V/Ph/Hz		230V~50Hz	230V~50Hz	230V~50Hz	230V~50Hz
Capacity *1	Heating *3	kW	10.00	12.00	14.00	15.50
Power input *1	Heating *3	kW	2.20	2.64	3.20	3.60
	W/W		4.60	4.55	4.35	4.30
COP *1	W/W		4.60	4.55	4.35	4.30
Capacity *2	Heating *4	kW	10.00	12.00	14.00	15.50
Power input *2	Heating *4	kW	2.7	3.33	3.94	4.56
	W/W		3.70	3.45	3.35	3.30
COP *2	W/W		3.70	3.45	3.35	3.30
Refrigerant charge volume	kg		2.20	2.20	2.20	2.20
Sanitary water Temperature	℃		40~80	40~80	40~80	40~80
Sound pressure level(heating)	dB(A)		54	54	55	57
Dimensions (W × D × H)	Outline	mm	1200 × 460 × 878	1200 × 460 × 878	1200 × 460 × 878	1200 × 460 × 878
	Packaged	mm	1290 × 586 × 1010	1290 × 586 × 1010	1290 × 586 × 1010	1290 × 586 × 1010
Net weight/Gross weight	kg		147/166	147/166	147/166	147/166
Loading quantity	40' GP	unit	58	58	58	58
	40' HQ	unit	58	58	58	58

Model			GRS-CQ10Pd/NhG2-M	GRS-CQ12Pd/NhG2-M	GRS-CQ14Pd/NhG2-M	GRS-CQ16Pd/NhG2-M
Power supply	V/Ph/Hz		380~415V 3N~50Hz	380~415V 3N~50Hz	380~415V 3N~50Hz	380~415V 3N~50Hz
Capacity *1	Heating *3	kW	10.0	12.0	14.0	15.5
Power input *1	Heating *3	kW	2.20	2.64	3.20	3.60
	W/W		4.60	4.55	4.35	4.30
COP *1	W/W		4.60	4.55	4.35	4.30
Capacity *2	Heating *4	kW	10.0	12.0	14.0	15.5
Power input *2	Heating *4	kW	2.70	3.33	3.94	4.56
	W/W		3.70	3.45	3.35	3.30
COP *2	W/W		3.70	3.45	3.35	3.30
Refrigerant charge volume	kg		2.2	2.2	2.2	2.2
Sanitary water Temperature	℃		40~80	40~80	40~80	40~80
Sound pressure level(heating)	dB(A)		54	54	55	57
Dimensions (W × D × H)	Outline	mm	1200 × 460 × 878	1200 × 460 × 878	1200 × 460 × 878	1200 × 460 × 878
	Packaged	mm	1290 × 586 × 1010	1290 × 586 × 1010	1290 × 586 × 1010	1290 × 586 × 1010
Net weight/Gross weight	kg		147/166	147/166	147/166	147/166
Loading quantity	40' GP	unit	58	58	58	58
	40' HQ	unit	58	58	58	58

Note:

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

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

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

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

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

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



Item	Water Side	Heat Source/User Side
	Leaving Water Temperature(℃)	Environment Dry Bulb Temperature(℃)
Cooling	7~25	10~48
Heating	25~60	-25~35
Water Heating	40~80 (water tank)	-25~45

Golden fin condenser

Inner groove copper

High efficiency

Intelligent defrosting

Quiet function

Self-diagnosis

Low voltage startup

Low temperature heating

Wide operation range

Wide voltage range

Memory function

Comprehensive protection

Long-distance monitoring

24 hour timer

Weekly timer

℃/°F switch

Clock display

Child lock

Key-card control

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

Specifications

Model			GRS-CQ4.0Pd/NhH-E(O)	GRS-CQ6.0Pd/NhH-E(O)	GRS-CQ8.0Pd/NhH-E(O)	GRS-CQ10Pd/NhH-E(O)	GRS-CQ12Pd/NhH-E(O)	GRS-CQ14Pd/NhH-E(O)
Power supply	V/Ph/Hz		230V-50Hz	230V-50Hz	230V-50Hz	230V-50Hz	230V-50Hz	230V-50Hz
Capacity *1	Cooling *3	kW	3.80	5.80	7.00	8.50	11.00	12.50
	Heating *4	kW	4.00	6.00	8.00	9.50	11.50	13.50
Power input *1	Cooling *3	kW	0.82	1.32	1.75	2.24	2.68	3.05
	Heating *4	kW	0.78	1.20	1.70	2.07	2.53	3.22
EER/COP *1	W/W		4.63/5.13	4.40/5.00	4.00/4.71	3.79/4.59	4.10/4.55	3.70/4.35
Capacity *2	Cooling *5	kW	3.15	4.09	5.30	6.50	8.50	10.00
	Heating *6	kW	4.00	5.90	8.00	9.50	11.80	14.00
Power input *2	Cooling *5	kW	0.92	1.28	1.73	2.27	3.04	4.14
	Heating *6	kW	1.02	1.51	2.14	2.64	3.28	3.94
EER/COP *2	W/W		3.42/3.92	3.20/3.91	3.06/3.74	2.86/3.60	2.80/3.60	2.60/3.55
Refrigerant charge volume	kg		1.00	1.00	1.60	1.60	1.84	1.84
Sanitary water temperature	℃		40~80	40~80	40~80	40~80	40~80	40~80
Sound pressure level	cooling	dB(A)	52	52	55	55	58	58
	heating	dB(A)	52	52	55	55	61	61
Connecting pipe	Gas	inch(mm)	12.70	12.70	12.70	12.70	12.70	12.70
	Liquid	inch(mm)	6.35	6.35	6.35	6.35	6.35	6.35
Dimensions (W × D × H)	Outline	mm	975 × 396 × 702	975 × 396 × 702	982 × 427 × 787	982 × 427 × 787	940 × 460 × 820	940 × 460 × 820
	Packaged	mm	1028 × 458 × 830	1028 × 458 × 830	1097 × 478 × 937	1097 × 478 × 937	1083 × 573 × 973	1083 × 573 × 973
Net weight/ Gross weight	kg		55/65	55/65	82/92	82/92	106/118	106/118
Loading quantity	40'GP	set	114	114	96	96	84	84
	40'HQ	set	171	171	96	96	84	84

Model			GRS-CQ16Pd/NhH-E(O)	GRS-CQ10Pd/NhH-M(O)	GRS-CQ12Pd/NhH-M(O)	GRS-CQ14Pd/NhH-M(O)	GRS-CQ16Pd/NhH-M(O)
Power supply	V/Ph/Hz		230V-50Hz	400V 3N-50Hz	400V 3N-50Hz	400V 3N-50Hz	400V 3N-50Hz
Capacity *1	Cooling *3	kW	14.50	8.8	11.0	12.5	14.5
	Heating *4	kW	15.50	10.0	11.5	13.5	15.5
Power input *1	Cooling *3	kW	3.82	1.96	2.68	3.05	3.82
	Heating *4	kW	3.60	2.17	2.53	3.22	3.6
EER/COP *1	W/W		3.30/4.30	4.50/4.60	4.10/4.55	3.70/4.35	3.30/4.30
Capacity *2	Cooling *5	kW	10.50	7.8	8.5	10.0	10.5
	Heating *6	kW	15.50	10.0	11.8	14.0	15.5
Power input *2	Cooling *5	kW	4.73	2.48	3.04	4.14	4.73
	Heating *6	kW	4.56	2.70	3.28	3.94	4.56
EER/COP *2	W/W		2.50/3.40	3.15/3.70	2.80/3.60	2.60/3.55	2.50/3.40
Refrigerant charge volume	kg		1.84	2.20	1.84	1.84	1.84
Sanitary water temperature	℃		40~80	40~80	40~80	40~80	40~80
Sound pressure level	cooling	dB(A)	58	58	58	58	58
	heating	dB(A)	61	61	61	61	61
Connecting pipe	Gas	inch(mm)	12.70	16.00	12.70	12.70	12.70
	Liquid	inch(mm)	6.35	9.52	6.35	6.35	6.35
Dimensions (W × D × H)	Outline	mm	940 × 460 × 820	980 × 360 × 788	940 × 460 × 820	940 × 460 × 820	940 × 460 × 820
	Packaged	mm	1083 × 573 × 973	1097 × 478 × 967	1083 × 573 × 973	1083 × 573 × 973	1083 × 573 × 973
Net weight/Gross weight	kg		106/118	80/89	106/118	106/118	106/118
Loading quantity	40'GP	set	84	96	84	84	84
	40'HQ	set	84	96	84	84	84

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

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

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

4. For floor heating.

5. For fan coil unit.

6. For fan coil or radiator.

Versati III (All In One)

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

Model			GRS-CQ4.0Pd/NhH-E(I)	GRS-CQ6.0Pd/NhH-E(I)	GRS-CQ8.0Pd/NhH-E(I)	GRS-CQ10Pd/NhH-E(I)	GRS-CQ12Pd/NhH-E(I)	GRS-CQ14Pd/NhH-E(I)
Power supply	V/Ph/Hz		230V~50Hz	230V~50Hz	230V~50Hz	230V~50Hz	230V~50Hz	230V~50Hz
Nominal input	W		100	100	100	100	100	100
Leaving water temperature	Cooling *1	℃	18	18	18	18	18	18
	Cooling *2	℃	7	7	7	7	7	7
	Heating *1	℃	35	35	35	35	35	35
	Heating *2	℃	45	45	45	45	45	45
Pump	Type	-	Inverter	Inverter	Inverter	Inverter	Inverter	Inverter
	Nr. of speed	-	10	10	10	10	10	10
	Power input	W	75	75	75	75	85	85
	Water flow limit	LPM	12	12	12	12	12	12
Electric heater	Operation	-	Automatic	Automatic	Automatic	Automatic	Automatic	Automatic
	Steps	-	2	2	2	2	2	2
	Capacity	kW	3	3	3	3	3	3
	Combination	kW	1.5+1.5	1.5+1.5	3+3	3+3	3+3	3+3
	Power input	V/Ph/Hz	230V~50Hz	230V~50Hz	230V~50Hz	230V~50Hz	230V~50Hz	230V~50Hz
Sound pressure level	dB(A)		29	29	29	29	31	31
Connecting pipe	Gas	inch(mm)	12.7	12.7	12.7	12.7	12.7	12.7
	Liquid	inch(mm)	6.35	6.35	6.35	6.35	6.35	6.35
Dimensions (W × D × H)	Outline	mm	860 × 460 × 318	860 × 460 × 318	860 × 460 × 318	860 × 460 × 318	860 × 460 × 318	860 × 460 × 318
	Packaged	mm	1133 × 568 × 390	1133 × 568 × 390	1133 × 568 × 390	1133 × 568 × 390	1133 × 568 × 390	1133 × 568 × 390
Net weight/Gross weight	kg		62/71	62/71	62/71	62/71	62/71	62/71
Loading quantity	40'GP	set	240	240	240	240	240	240
	40'HQ	set	240	240	240	240	240	240



4-6kW

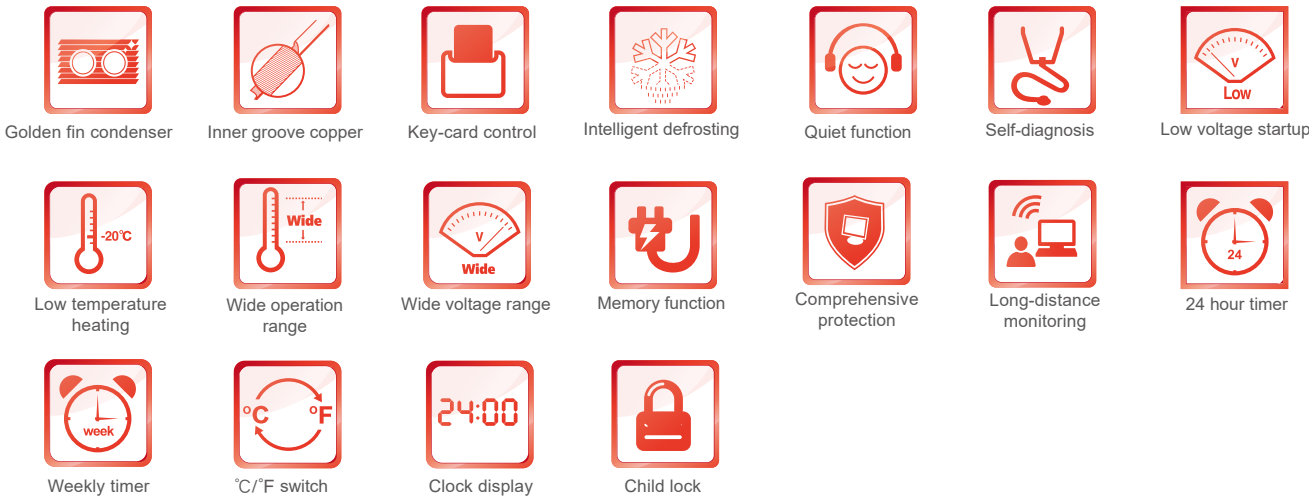
8-10kW

12-16kW

Model			GRS-CQ16Pd/NhH-E(I)	GRS-CQ10Pd/NhH-M(I)	GRS-CQ12Pd/NhH-M(I)	GRS-CQ14Pd/NhH-M(I)	GRS-CQ16Pd/NhH-M(I)
Power supply	V/Ph/Hz		230V~50Hz	400V 3N~50Hz	400V 3N~50Hz	400V 3N~50Hz	400V 3N~50Hz
Nominal input	W		110	100	110	110	110
Leaving water temperature	Cooling *1	℃	18	18	18	18	18
	Cooling *2	℃	7	7	7	7	7
	Heating *1	℃	35	35	35	35	35
	Heating *2	℃	45	45	45	45	45
Pump	Type	-	Inverter	Inverter	Inverter	Inverter	Inverter
	Nr. of speed	-	10	10	10	10	10
	Power input	W	85	75	85	85	85
	Water flow limit	LPM	12	9	10	10	10
Electric heater	Operation	-	Automatic	Field supply	Automatic	Automatic	Automatic
	Steps	-	2	2	2	2	2
	Capacity	kW	6	3	6	6	6
	Combination	kW	3+3	3+3	3+3	3+3	3+3
	Power input	V/Ph/Hz	220~240V~50Hz	400V 3N~50Hz	400V 3N~50Hz	400V 3N~50Hz	400V 3N~50Hz
Sound pressure level	dB(A)		31	31	31	31	31
Connecting pipe	Gas	inch(mm)	12.7	16	16	16	16
	Liquid	inch(mm)	6.35	9.52	9.52	9.52	9.52
Dimensions (W × D × H)	Outline	mm	860 × 460 × 318	981 × 500 × 324	981 × 500 × 324	981 × 500 × 324	981 × 500 × 324
	Packaged	mm	1133 × 568 × 390	1043 × 608 × 395	1043 × 608 × 395	1043 × 608 × 395	1043 × 608 × 395
Net weight/Gross weight	kg		62/71	57/66	57/66	57/66	57/66
Loading quantity	40'GP	set	240	205	205	205	205
	40'HQ	set	240	246	246	246	246

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

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



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



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

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

Specifications

Outdoor Unit

Model			GRS-CQ4.0Pd/NhH-E(O)	GRS-CQ6.0Pd/NhH-E(O)	GRS-CQ8.0Pd/NhH-E(O)	GRS-CQ10Pd/NhH-E(O)	GRS-CQ12Pd/NhH-E(O)	GRS-CQ14Pd/NhH-E(O)
Power supply		V/Ph/Hz	230V~50Hz	230V~50Hz	230V~50Hz	230V~50Hz	230V~50Hz	230V~50Hz
Capacity ^{*1}	Cooling ^{*3}	kW	3.80	5.80	7.00	8.50	11.00	12.50
	Heating ^{*4}	kW	4.00	6.00	8.00	9.50	11.50	13.50
Power input ^{*1}	Cooling ^{*3}	kW	0.82	1.32	1.75	2.24	2.68	3.05
	Heating ^{*4}	kW	0.78	1.20	1.70	2.07	2.53	3.22
EER/COP ^{*1}		W/W	4.63/5.13	4.40/5.00	4.00/4.71	3.79/4.59	4.10/4.55	3.70/4.35
Capacity ^{*2}	Cooling ^{*5}	kW	3.15	4.09	5.30	6.50	8.50	10.00
	Heating ^{*6}	kW	4.00	5.90	8.00	9.50	11.80	14.00
Power input ^{*2}	Cooling ^{*5}	kW	0.92	1.28	1.73	2.27	3.04	4.14
	Heating ^{*6}	kW	1.02	1.51	2.14	2.64	3.28	3.94
EER/COP ^{*2}		W/W	3.42/3.92	3.20/3.91	3.06/3.74	2.86/3.60	2.80/3.60	2.60/3.55
Refrigerant charge volume		kg	1.00	1.00	1.60	1.60	1.84	1.84
Sanitary water temperature		°C	40~80	40~80	40~80	40~80	40~80	40~80
Sound pressure level	cooling	dB(A)	52	52	55	55	58	58
	heating	dB(A)	52	52	55	55	61	61
Connecting pipe	Gas	inch(mm)	12.70	12.70	12.70	12.70	12.70	12.70
	Liquid	inch(mm)	6.35	6.35	6.35	6.35	6.35	6.35
Dimensions (W × D × H)	Outline	mm	975 × 396 × 702	975 × 396 × 702	982 × 427 × 787	982 × 427 × 787	940 × 460 × 820	940 × 460 × 820
	Packaged	mm	1028 × 458 × 830	1028 × 458 × 830	1097 × 478 × 937	1097 × 478 × 937	1083 × 573 × 973	1083 × 573 × 973
Net weight/ Gross weight		kg	55/65	55/65	82/92	82/92	106/118	106/118
Loading quantity	40'GP	set	114	114	96	96	84	84
	40'HQ	set	171	171	96	96	84	84

Indoor Unit

Model			GRS-CQ4.0PdG/NhH-E(I)	GRS-CQ6.0PdG/NhH-E(I)	GRS-CQ8.0PdG/NhH-E(I)	GRS-CQ10PdG/NhH-E(I)	GRS-CQ12PdG/NhH-E(I)	GRS-CQ14PdG/NhH-E(I)
Power supply		V/Ph/Hz	230V~50Hz	230V~50Hz	230V~50Hz	230V~50Hz	230V~50Hz	230V~50Hz
Nominal input		W	100	100	100	100	100	100
Leaving water temperature	Cooling ^{*1}	°C	18	18	18	18	18	18
	Cooling ^{*2}	°C	7	7	7	7	7	7
	Heating ^{*1}	°C	35	35	35	35	35	35
	Heating ^{*2}	°C	45	45	45	45	45	45
Pump	Type	-	inverter	inverter	inverter	inverter	inverter	inverter
	Nr. of speed	-	10	10	10	10	10	10
	Power input	W	75	75	75	75	85	85
	Water flow limit	LPM	12	12	12	12	12	12
Electric heater	Operation	-	Automatic	Automatic	Automatic	Automatic	Automatic	Automatic
	Steps	-	2	2	2	2	2	2
	Capacity	kW	3	3	3	3	6	6
	Combination	kW	1.5+1.5	1.5+1.5	3+3	3+3	3+3	3+3
	Power input	V/Ph/Hz	230V~50Hz	230V~50Hz	230V~50Hz	230V~50Hz	230V~50Hz	230V~50Hz
Sound pressure level		dB(A)	29	29	29	29	31	31
Connecting pipe	Gas	inch(mm)	12.7	12.7	12.7	12.7	12.7	12.7
	Liquid	inch(mm)	6.35	6.35	6.35	6.35	6.35	6.35
Dimensions (W × D × H)	Outline	mm	600 × 600 × 1756	600 × 600 × 1756	600 × 600 × 1756	600 × 600 × 1756	600 × 600 × 1750	600 × 600 × 1750
	Packaged	mm	803 × 683 × 2000	803 × 683 × 2000	803 × 683 × 2000	803 × 683 × 2000	803 × 683 × 2000	803 × 683 × 2000
Net weight/Gross weight		kg	210/233	210/233	210/233	210/233	210/233	210/233
Loading quantity	40'GP	set	48	48	48	48	48	48
	40'HQ	set	48	48	48	48	48	48

Model			GRS-CQ16Pd/NhH-E(O)	GRS-CQ10Pd/NhH-M(O)	GRS-CQ12Pd/NhH-M(O)	GRS-CQ14Pd/NhH-M(O)	GRS-CQ16Pd/NhH-M(O)
Power supply		V/Ph/Hz	230V~50Hz	400V 3N~50Hz	400V 3N~50Hz	400V 3N~50Hz	400V 3N~50Hz
Capacity ^{*1}	Cooling ^{*3}	kW	14.5	8.8	11.0	12.5	14.5
	Heating ^{*4}	kW	15.5	10.0	11.5	13.5	15.5
Power input ^{*1}	Cooling ^{*3}	kW	3.82	1.96	2.68	3.05	3.82
	Heating ^{*4}	kW	3.60	2.17	2.53	3.22	3.60
EER/COP ^{*1}		W/W	3.30/4.30	4.50/4.60	4.10/4.55	3.70/4.35	3.30/4.30
Capacity ^{*2}	Cooling ^{*5}	kW	10.50	7.80	8.50	10.00	10.50
	Heating ^{*6}	kW	15.50	10.00	11.80	14.00	15.50
Power input ^{*2}	Cooling ^{*5}	kW	4.73	2.48	3.04	4.14	4.73
	Heating ^{*6}	kW	4.56	2.70	3.28	3.94	4.56
EER/COP ^{*2}		W/W	2.50/3.40	3.15/3.70	2.80/3.60	2.60/3.55	2.50/3.40
Refrigerant charge volume		kg	1.84	2.20	1.84	1.84	1.84
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)	12.70	12.70	12.70	12.70	12.70
	Liquid	inch(mm)	6.35	6.35	6.35	6.35	6.35
Dimensions (W × D × H)	Outline	mm	940 × 460 × 820	980 × 360 × 788	940 × 460 × 820	940 × 460 × 820	940 × 460 × 820
	Packaged	mm	1083 × 573 × 973	1097 × 478 × 967	1083 × 573 × 973	1083 × 573 × 973	1083 × 573 × 973
Net weight/Gross weight		kg	106/118	80/89	106/118	106/118	106/118
Loading quantity	40'GP	set	84	96	84	84	84
	40'HQ	set	84	96	84	84	84

Note:

1.Capacites 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 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.

2.Capacites 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.

Note:

1.Capacites 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.Capacites 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.

Key Features

Gree Integral Heat Pump Water Heater

By taking advantage of heat pump and consuming some electricity as compensation, it acquires heat (air source) from environment through thermal circuit. Then the heat will be transferred to condenser by compressor and released to heat water inside water tank subsequently. The COP is 3 times more than that of traditional water heater.



Integral Design & Convenient Installation

- Applying integral design which combines compressor, evaporator, condenser and water tank in a same cabinet, it can be installed without refrigeration pipe so that the installation becomes convenient and meets requirement of the decoration.
- Using static heating mode, the unit has no circular water system. The installation and maintenance are very convenient.

Hot Water Supplied All Day

The unit will not be affected by night or weather. The highest outlet water temperature can reach 70°C to meet requirement of different places and users. Hot water can be supplied all day and all year round.

Self-adaption Control for Electronic Expansion Valve

Use self-adaption control of electronic expansion valve and take advantage of heat in the air to heat water.

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



Equispaced Water Inlets

Water is charged from the bottom and the water inlet pipe has equispaced water inlets, which can reduce cold water shock and enhance the service life of the tank.

Cold water inlet pipe with decentralized water inlets

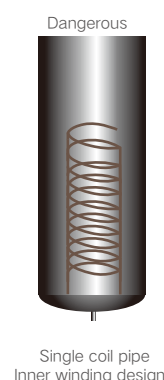


Outer Winding Parallel Flow Pipe

- The outside of inner water tank is surrounded with parallel flow pipes which greatly promote efficiency of heat exchange and stabilize water system.



vs

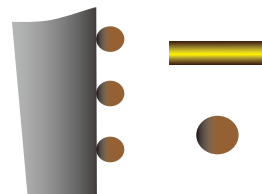


- Parallel flow heat exchanger has bigger contact surface so that the heat exchange efficiency is higher; its material has good thermal conduction.



Parallel flow heat exchanger
Surface is bigger and exchange efficiency is higher

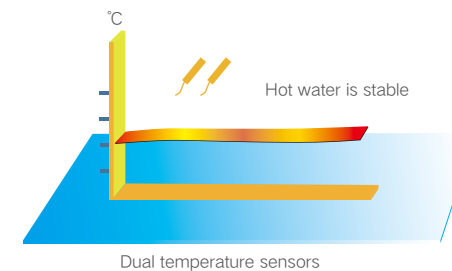
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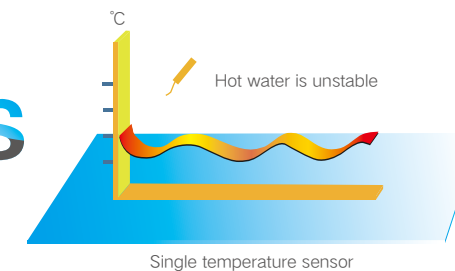
Traditional O-type copper pipe
Surface is smaller and exchange efficiency is low

Two Temperature Sensors

- Each temperature sensor respectively on the top and bottom to inspect water temperature and operation of the unit. The control for water temperature is more accurate.
- Start-stop control is more accurate and water temperature is adjusted in general.
- Avoid early startup of the unit which would mix cool and hot water inside the water tank earlier so as to promote hot water yield of water tank.
- Avoid late startup of the unit which would cause low use ratio of hot water and long waiting time for re-heating.



vs



Reliable and Durable

- Use special compressor for hot water which is high temperature and high pressure resistant. Compared with common compressor, its efficiency is higher and sealing structure is better and intensity of rotor is better. The complete system is more secure and reliable so as to guarantee normal operation within wide scope of working condition.
- Inner water tank is made of advanced enameled steel inner pot and with extended magnesium rod which is anticorrosive so as to prolong the lifespan of the unit.
- Controlled by microcomputer to automatically realize heating, thermal insulation, defrosting, and freeze protection.

Eco-friendly and Safe


- There is no need for boiler or gas so that the pollution and toxic gas will not be produced and CO poisoning will not happen.
- Both inner and outer tanks are insulated and refrigerant pipe is completely isolated from water so that reliability and water quality can be assured.
- Water and electricity are completely isolated so as to avoid potential risk, like electric leakage.
- Empty chamber design for water tank effectively relieves inner pressure. The safety valve is installed on the bottom of the water tank to prevent overhigh temperature and stabilize the water pressure.
- The product has passed drop, vibration and pile tests and it can normally work after going through rough transportation conditions.
- There are multiple protections for security and malfunction inspection, including anti-creeping switch, over-temperature protection, anti-dry protection, overpressure protection, anti-reversal for water protection, auto temperature control, etc.

User-friendly Operation Mode


- Superior operation interface with user-friendly mode.
- Water temperature can be freely set to 70°C. Meanwhile, timer ON and timer OFF can also be set. There are multiple operation modes for the unit, including Standard Hot Water Mode and Energy Saving. The energy saving mode can meet requirement of user for hot water and energy can also be saved.

Integral Heat Pump Water Heater


The product adopts the integrated design of main unit and water tank, which is convenient for installation; the compressor specialized for heat pump water heater and parallel-flow microchannel heat exchanger are adopted, which are high-efficiency and energy-saving; the high-efficiency finned heat exchanger is reliable and durable. The overall appearance is concise and can be used to provide hot water for the family.




Auxiliary electric heater




High efficiency




Intelligent defrosting




Energy saving function




24 hour timer




°C/°F switch




Clock display



Easier Maintenance



Child lock



Memory function



Item	Nominal Operating Condition					Operating Range
	Outdoor condition		Indoor condition			Outdoor condition
	DB(°C)	WB (°C)	DB(°C)		WB(°C)	DB (°C)
Heating	7	6	7	/	6	0~45



Model		GRS-1.5/TD150ANbA-K		GRS-1.5/TD200ANbA-K	
Capacity ¹	kW	1.5		1.5	
Power input ¹	kW	0.429		0.429	
COP ² _{DHW}	W/W	2.47		2.24	
Refrigerant	-	R134a		R134a	
Refrigerant charge volume	kg	0.8		0.8	
Refrigerant design pressure	MPa	2.8		2.8	
Tank design presure	MPa	0.8		0.8	
Running ambient temp.	°C	0~45		0~45	
Outwater temp.	°C	35~70		35~70	
Sound power level(heating) ³	dB(A)	62		62	
Volume	L	150		190	
Water pipeline	Water inlet pipe	inch	0.59		0.59
	Water outlet pipe	inch	0.59		0.59
Dimensions(W × D × H)	outline	mm	621 × 561 × 1760		621 × 561 × 2030
	Packaged	mm	731 × 717 × 1845		731 × 717 × 2110
Net weight/Gross weight	kg	92/112		102.5/122.5	
Loading quantity	40'GP/40'HQ	set	48/48		48/48

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

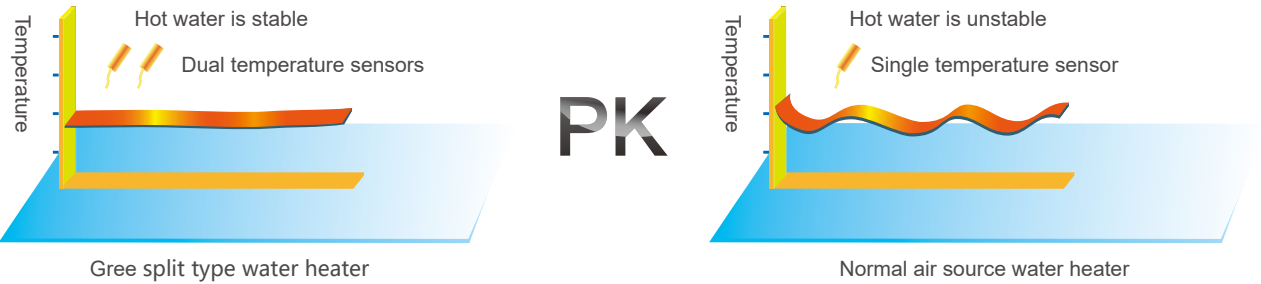


Gree Split Type Water Heater offers you with sufficient hot water, ensuring a warm and comfortable life to each family. They are not only energy-saving but also with high-tech smart technology for your easy control.

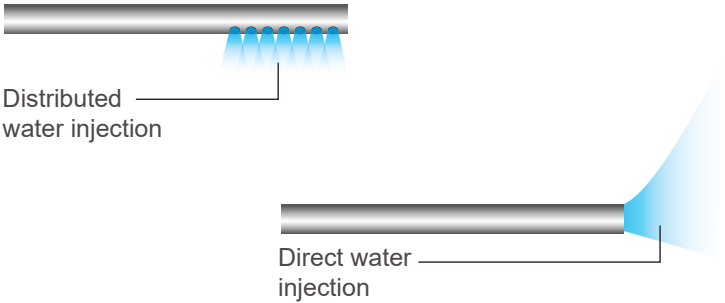
Split Type Water Heater

Warm and Comfortable Life

- **Flexible control by dual temperature sensors for improving utilization ratio of hot water**
Two temperature sensors have been installed on the water tank of Gree split type water heater. They can sense the water temperature and operation status of unit at real time.



- **Distributed water injection design for bath at any time**
The water tank adopts distributed water injection at the bottom for efficiently circulating control. By matching with the middle separation slow flow technology, water will split-flow downwards to reducing the disturbance to upper hot water, which can improve the service performance of hot water greatly and ensure the hot water volume inside water tank.



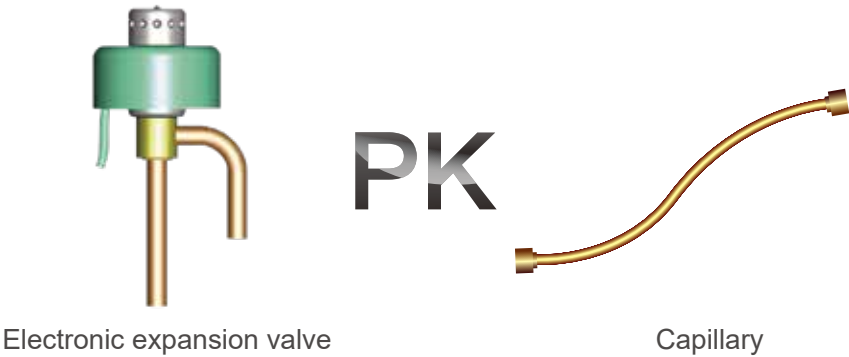
More Efficiency and Energy-saving Life

Especial compressor system design for hot water, self-adaptive adjustment and control technology for electronic expansion valve, 45mm high efficiency insulating layer .

- **Especial compressor system design for hot water, safe and reliable**
Adopt special compressor for hot water. Compared with normal compressor, motor efficiency is much higher, sealing structure is much better, rotor strength is more powerful and complete system is much safer and more reliable.



- **Self-adaptive adjustment and control technology for electronic expansion valve, higher efficiency and more energy-saving**
Adopt self-adaptive adjustment and control method for satisfying auto system adjustment under different ambient temperature and then output the proper throttling opening of electronic expansion valve. Therefore, the flow volume of refrigerant is more precise, operation is safer and more reliable, and the system is more energy-saving and more efficient.



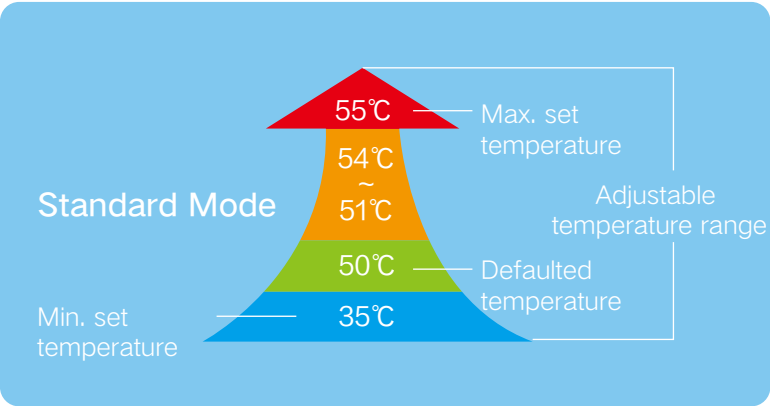
- **45mm high efficiency thermal insulation**
Water tank adopts high efficiency 45mm foaming layer for thermal insulation. 360° 3D thermal insulation for keep-ing the heat inside the water tank.

Smart Life with Humanized Technology

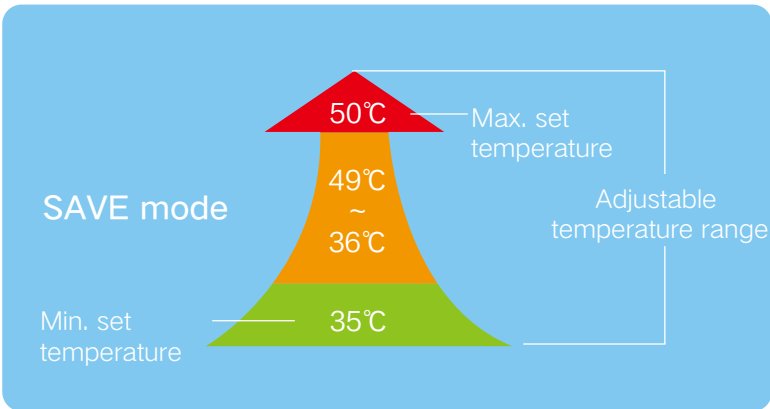
Humanized technology: 5 kinds of modes for selection

The unit is with multiple operation functions. It can realize HOT WATER, SAVE, NIGHT and PRESET hot water modes, and those four kinds of mode can be selected by users. Meanwhile, user can set timer ON and timer OFF.

HOT WATER mode: The defaulted water outlet temperature is 50°C. User can also adjust the water temperature freely. The highest water temperature can reach 55°C*.



SAVE mode: As summer is hot, the water temperature can be lower. Gree air source water heater is with SAVE mode and the water temperature range is 35~50°C for saving energy.



TIMER function: Set timer ON in advance according to requirement. Gree air source water heater will be started up in time to heat water.



NIGHT mode: In some cities, the electricity price at night is lower than daytime, Gree air source water heater can be turned on automatically at night, which can save cost for you.



PRESET mode: Preset the time when you need to use hot water. The unit will intelligently start up the heating device in advance to heat the water according to your preset for providing you with hot water in time.

Split Type Water Heater

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



SXTD200LCJW/A-K



Controller XK64



Self-diagnosis



°C/°F switch



Inner groove copper



Compact design



Clock display



Intelligent defrosting



Easier maintainability



Child lock



Energy saving

- Safe and eco-friendly
Water and electricity are separated to avoid possible electric shock. Without possible toxicities of CO, user's safety can be ensured. No pollutant is released during operation, so there is no damage to the environment.
- Reliable and durable
Adopting special compressor, the unit is resistant to high temperature and pressure. The water tank adopts advanced enamel inner container with ultra-long 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 are 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.

Note

Item	Nominal operating condition (temperature)			
	Outdoor condition		Water side condition	
	DB(℃)	WB (℃)	Initial water (℃)	Final water(℃)
Heating	20	15	15	55

Water Heating Energy Efficiency

Outdoor Unit

Model			GRS-S3.5PdG/NaA1-K
Rated heating capacity ⁽¹⁾		W	3500(1800~3700)
Rated input power ⁽¹⁾		W	833(360~910)
Load profile		-	L
COP _{DHW} ⁽²⁾		W/W	3.1
Energy efficiency class ⁽²⁾		-	A*
Water heating energy efficiency ⁽²⁾		-	130%
Maximum input power		W	2000+1500W(Electric Heater)
Outlet water temperature		°C	Default: 55°C, 35°C~55°C
Power supply		-	220V-240V ~50Hz
Insulation level		-	I
Protection of Ingression		-	IPX4
Refrigerant	Name		R410A
	Charge	kg	1.4
Outline dimensions	W×D×H	mm	842×320×591
Package dimensions	W×D×H	mm	948×363×660
Gross/Net weight		kg	38.5/44.5
Sound power level ⁽³⁾		dB(A)	63
Operating range		°C	-25~45°C

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

Water Tank

Model			SXTVD300LCJ2/A-K	SXTVD300LC/B-M
Water tank volume			L	300
Power supply			V/Ph/Hz	230/1/50
Electric heater power			W	3000
Screw thread spec of pipe	Cool water inlet		inch(mm)	3/4"Female BSP
	Hot water inlet		inch(mm)	3/4"Female BSP
Dimensions	Outline	Diameter×H	mm	Φ620×1725
	Packaged	W×D×H	mm	815×920×1745
Net weight/Gross weight			kg	135/163
Loading quantity	40'GP/40'HQ		set	39/39

