**GREE ELECTRIC APPLIANCES, INC. OF ZHUHAI**

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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.



**GC-1809-05**

Distributor information


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.

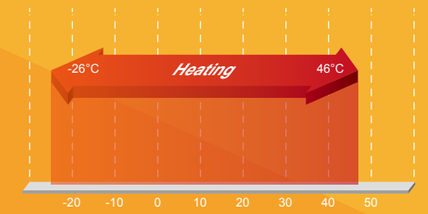

# CONTENTS


Direct & Circulating Air Source Heat Pump Water Heater is developed based on the theory of Reverse Carnot Cycle. Driven by a small amount of electrical power, with refrigerant as carrier, continuously absorbs low grade heat in the air, and transforms them into usable high grade heat, which is then released into water so as to generate and secure domestic hot water, and finally transports hot water through hot water pipes to users. Its operation principle is the same as heat pump air conditioner. The heat pump air conditioner absorbs heat from the ambient, and then supplies the heat to indoor air; while the heat pump water heater uses the heat for heating production or domestic hot water. Its energy efficiency is 3 times higher than that of conventional electrical water heater and is a new type of water heater with high efficiency, energy saving and environmental protection.

# Key Features

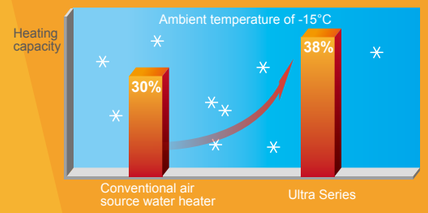
## Wide Range of Operation Condition

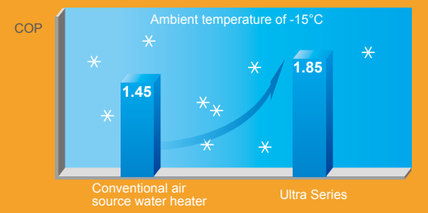
It is specifically designed for users from different places. It can operate stably within -26°C~46°C wide ambient temperature scope, so that users can use hot water freely all the year around.




## Professional Heat Pump Hot Water System

- Adopting the optimized professional heat pump hot water system, the attenuation ratio of heating capacity in winter is small, which is more energy-saving.
- Under ambient temperature of -15°C, the unit's capacity attenuation is 8% lower than that of conventional unit, with COP improved by 0.4w/w.



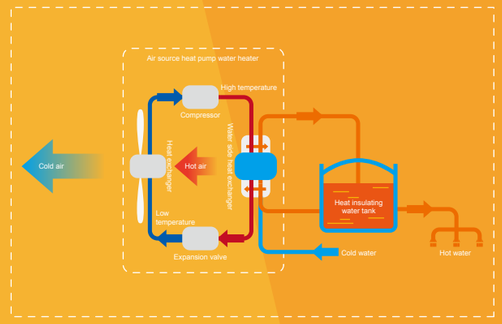




## Reverse Carnot Cycle

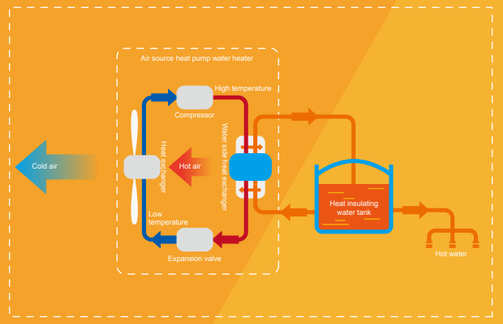
Unit absorbs low grade heat (-26~46℃) in the air, and transforms them into usable high grade heat, which is then released into water so as to generate and secure domestic hot water, and finally transports hot water through hot water pipes to users.

- Direct & Circulating Heating Type: when the water tank is in low water level, the unit will operate in heating mode, and heat the tap water to the set temperature once in the form of "small water flow and big temperature difference", then store it to the water tank. When the water tank is in high water level and water tank temperature is lower than the set value of cyclic temp, the unit will operate in circulation mode, and heat the water in water tank to the value which is 5℃ higher than the set value in the form of "big water flow and small temperature rise". Direct heat circulated unit can only match with the opened water tank.

- Circulating Heating Type: Supplement tap water to the storage water tank first, when water temperature is 5℃ lower than the set temperature, heat the water in the water tank to the set value of cyclic temp in the form of "big water flow and small temperature rise".




Direct & Circulating Heating Type




Circulating Heating Type

# More Efficient and More Energy-saving

## High-efficiency Compressor

“Low-temperature heat pump” scroll compressor——flexible scroll design improves the anti-slugging ability of compressor; oil film sealing reduces friction, noise and mechanical energy consumption; a unique low-temperature injection design, improves the reliability in severe conditions and prolongs the lifespan of compressor. It is with outstanding performance, safer, more comfortable and energy-saving.

## High-efficiency Heat Exchanger

Red copper heat exchange inner tube with spiral groove corrugation structure is adopted, with the features of big exchange area and small space usage. Eddy flow and turbulent flow flush through with contaminant release ability helps to keep the cleanness of water, reduce dirt and keep the stability of performance. Outer tube adopts high-quality stainless steel pipe and special stoving varnish of coating, which is with higher corrosion resistance and longer lifespan. Thanks to the dual-system tube in tube design, system heat exchange is more balanced and the performance is better than conventional bushing.

## High-efficiency Fan Blade and Motor

CFD simulation design; adopts new high-efficiency axial flow blade with optimized blade shape and reasonable curve of blade edge. In the dynamic balance running test of fan blade, the motor matches perfectly.

The motor is more efficient with excellent internal configuration design, which can decrease mechanical energy consumption largely, improving motor efficiency and lower noise and heat productivity. With high temperature withstand grade, it can prolong the life span.

## Four-digit Water Level Switch Control

Users can adjust water storage volume of water tank according to actual water consumption, especially for obvious off-peak and peak hours of water consumption.

The unit adopts four-digit water level switch control, which can increase adaptability of unit and maintain operation reliability of unit.

# More Convenient and More Comfortable

## Instant Water Heating, Instant Use

With intelligent water returning technology, which can ensure instantly taking hot water by opening the tap. You can enjoy 5 star hotel’s water without wait and waste.

## Auto-washing

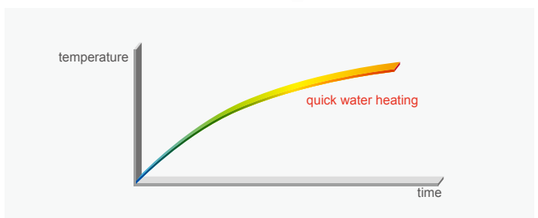
Adopts over 60°C hot water to conduct auto-washing function to realize sterilization and restrain breeding of bacteria. You can also conduct auto-washing function by adding detergent and degerming agent to remove the scale, which can be used safely and reliably.

## High Water Outlet Temperature*

Set water outlet temperature freely within 35~70°C. With a large scale for use, it is applicable for various hot water projects.

Adopts advanced waterway control system with high water outlet temperature. Direct heating mode water outlet temperature is set at 55°C before ex-factory. The highest water outlet temperature can reach 70°C.


Direct heating operation. Cold water will be heated to the applicable temperature once it gets into the unit. There will be hot water once turning on the unit, with big water heating capacity and rapid water heating speed.




*Note: This feature is only for Direct & Circulating Heating Type. While for the Circulating Heating Type,the tank temperature can only be freely set within 30~60℃.

## Intelligent Defrosting Function

When the unit detects requirements of defrosting, the four-way valve reverses, the refrigerant gas with high temperature and high pressure eliminates frost accumulated on the fin by passing through outdoor evaporator; When the unit detects the frost has been defrosted already, the four-way valve reverses back again and continues to heat; It can defrost at the most suitable time so as to maintain its high-efficiency and reliable operation. Such defrosting way features thorough defrosting, short defrosting time and high efficiency.

Meanwhile, the unit can distinguish the areas which are easy to get frosting and not easy to get frosting according to ambient temperature, so as to adopt different defrosting intervals;

The unit can enter defrosting earlier by judging the thickness of frost, so as to ensure the water heating effect.

## Timer, Constant Temperature and Constant Water Level Functions

With timer, constant temperature and constant water level functions, more humanized.

## Free Setting of Unit On Time

Set the time for turning on freely to satisfy needs of off-peak power use so as to lower operation cost.

## Power-off Memory Function

The unit will automatically operate in previous setting mode when power recovers after power failure.

# More Reliable

## Low Temperature Antifreezing Function

Low temperature antifreezing function can efficiently prevent frost cracking of heat exchanger.

## Intelligent Antifreezing Function

If the unit is power-on, when the unit notes that it is going to be frozen, it will automatically start circulating water pump or operate the unit so as to maintain the temperature of hot water pipe network and avoid the pipe network being frozen.

## Protection Functions

- Compressor high pressure protection
- High discharge temperature protection
- Water flow switch protection
- Antifreezing protection
- Compressor low pressure protection
- Water side pressure protection
- Sensor open-circuit/short-circuit protection

# More Intelligent Control

## Modular Design

- Free combination for convenient design and installation.
- Multiple parallel system, even if there is any malfunction occurs in one of the units, others can still operate normally. The risk of operation system is low, which is safe for use.

## Centralized control

- The controller can switch between controlling single unit and multiple units (16 units can be controlled centrally at most). Control functions include ON/OFF, water outlet temperature setting, timer on/off, parameter inquiry, etc.
- Free Combination. If there is any malfunction occurs in any of the units, it will not influence the operation of other units.

## Direct & Circulating Heating Type[3]

R410A

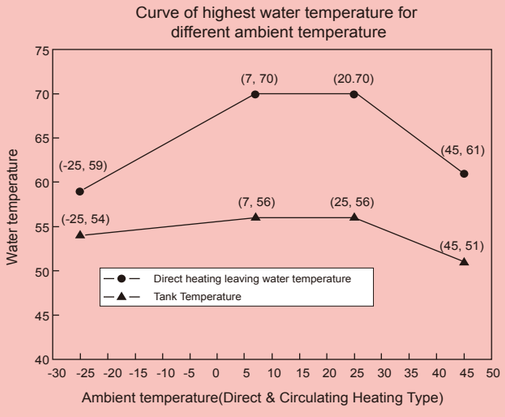
| Model | | | GRS-Dm30/NaA-M | GRS-Dm40/NaA-M | GRS-Dm60/NaA-M |
|---|---|---|---|---|---|
| Rated water heating capacity | | kW | 31 | 40 | 60 |
| Rated water supply | | l/h | 667 | 860 | 1300 |
| COP | | W/W | 3.83 | 4 | 4 |
| Outlet water temperature range | | ℃ | 35～70 | 35～70 | 35～70 |
| Tank water temperature range[4] | | ℃ | 30～56 | 30～56 | 30～56 |
| Power supply | | Ph/V/Hz | 3/380-415/50 | 3/380-415/50 | 3/380-415/50 |
| Rated power input | Water heating | kW | 8.1 | 10 | 15 |
| Max power input | Water heating | kW | 10.5 | 13 | 20 |
| Sound Pressure level | | dB(A) | ≤67 | ≤67 | ≤67 |
| Dimension(W×D×H) | Outline | mm | 930×800×1605 | 930×800×1605 | 1340×800×1605 |
| | Packaged | mm | 1010×865×1775 | 1010×865×1775 | 1420×880×1775 |
| Net weight/Gross weight | | kg | 238/252 | 264/286 | 362/378 |
| Loading quantity | 40'GP/40'HQ | set | 26/26 | 26/26 | 21/21 |

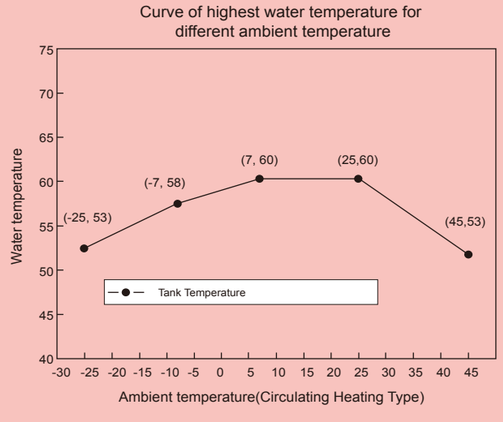
## Circulating Heating Type[3]

| Model | | | GRS-Cm28/NaA-M | GRS-Cm36/NaA-M | GRS-Cm53/NaA-M |
|---|---|---|---|---|---|
| Rated water heating capacity | | kW | 28 | 36 | 53 |
| Rated water supply | | l/h | 602 | 775 | 1140 |
| COP | | W/W | 3.83 | 3.87 | 4.08 |
| Tank Water temperature range | | ℃ | 30～60 | 30～60 | 30～60 |
| Power supply | | Ph/V/Hz | 3/380~415/50 | 3/380~415/50 | 3/380~415/50 |
| Rated power input | Water heating | kW | 7.3 | 9.3 | 13 |
| Max power input | Water heating | kW | 10.1 | 13.2 | 19 |
| Sound Pressure level | | dB(A) | ≤67 | ≤67 | ≤67 |
| Dimension(W×D×H) | Outline | mm | 930×800×1605 | 930×800×1605 | 1340×800×1605 |
| | Packaged | mm | 1010×865×1775 | 1010×865×1775 | 1420×880×1775 |
| Net weight/Gross weight | | kg | 243/260 | 260/277 | 358/376 |
| Loading quantity | 40'GP/40'HQ | set | 26/26 | 26/26 | 21/21 |

Notes:

1. Testing conditions of above data: Ambient temperature 20℃ DB/15℃ WB; entering/leaving water temperature: 15℃/55℃; power supply: 3/380/50Hz;
2. Considering the system reliability and various water temperature demands for different ambient temperature, we have limited the highest water temperature. The curve is shown as below.
3. The above products are not for EU.
4. Set Cyclic temp. to 51℃ means the starting temp. for cyclic temp. circularly is 51℃. When the unit is halted, tank water temperature is 56℃.




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.

# Integral Heat Pump Water Heater

The ATW 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.

GRS-1.5/TD150ANbA-K
GRS-1.5/TD200ANbA-K

GRS-1.5/D150ANbA-K
GRS-1.5/D200ANbA-K

Controller ZF5201

GRS-2.4/D270ANbA-K

Controller XK64

## 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

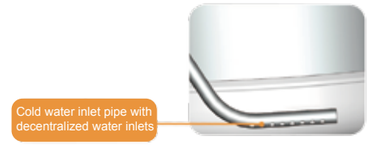
The unit will not be affected by night or weather. The highest outlet water temperature can reach 70°C to meet requirement of different places and users. Hot water can be supplied all day and all year round.

## 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.

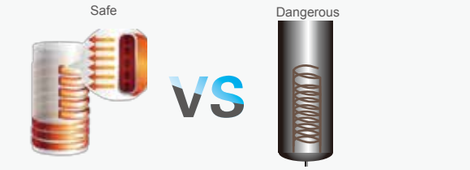
## Equispaced Water Inlets

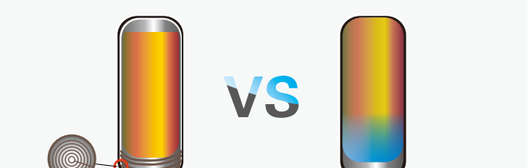
Water is charged from the bottom and the water inlet pipe has equi-spaced water inlets, which can reduce cold water shock and enhance the service life of the tank.




## Outer Winding Coil Pipe

- The outside of inner water tank is surrounded with 2 ways of coil pipes which greatly promote efficiency of heat exchange and stabilize water system.
- Heat from bottom of water tank to make the heating-up temperature more even and heat flux larger.



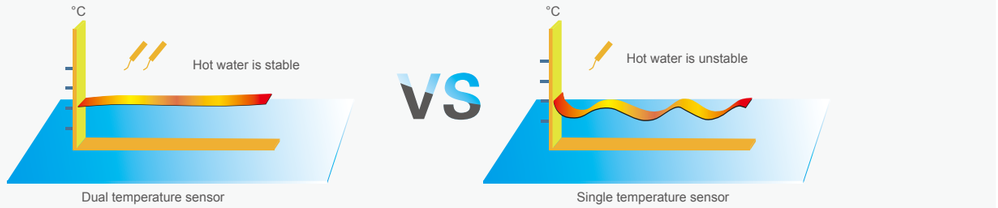




Note: This feature is only fit for water tank model GRS-1.5/D150ANbA-K/GRS-1.5/D200ANbA-K/GRS-2.4/D270ANbA-K only.

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

## 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.




## Reliable and Durable

- Use special compressor for hot water which is high temperature and high pressure resisted. 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 rustless steel 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 are 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.
- HOT WATER, SAVE, PRESET and NIGHT can be chosen. Water temperature can be freely set during 35～70°C. Meanwhile, TIMER on/off can also be set.
- There are multiple operation modes for the unit, including Standard Hot Water Mode, Energy Saving, Night and Preset Hot Water. The energy saving mode can meet requirement of user for hot water and meanwhile energy can be saved.

| Item | Nominal operating condition (temperature) | | | |
|---|---|---|---|---|
| | Outdoor condition | | Water side condition | |
| | DB (°C) | WB (°C) | Initial water (°C) | Final water (°C) |
| Heating | 20 | 15 | 15 | 55 |

R134a CE

| Model | | | GRS-1.5/D150ANbA-K | GRS-1.5/D200ANbA-K | GRS-2.4/D270ANbA-K |
|---|---|---|---|---|---|
| Capacity[1] | | kW | 1.5 | 1.5 | 2.4 |
| Power Input[1] | | kW | 0.429 | 0.429 | 0.685 |
| $COP^{2}_{DHW}$ | | W/W | 2.47 | 2.47 | 2.61 |
| Refrigerant | | - | R134a | R134a | R134a |
| Refrigerant charge volume | | kg | 0.8 | 0.8 | 1.1 |
| Refrigerant design pressure | | Mpa | 2.8 | 2.8 | 2.8 |
| Tank design presure | | Mpa | 0.8 | 0.8 | 0.8 |
| Running ambient temp. | | ℃ | 0 ～ 45 | 0 ～ 45 | -7 ～ 45 |
| Outwater temp. | | ℃ | 35 ～ 70 | 35 ～ 70 | 35 ～ 70 |
| Sound power Level(heating)[3] | | dB(A) | 61 | 61 | 60 |
| Volume | | L | 150 | 190 | 270 |
| Water pipline | Waterinlet pipe | inch | 0.59 | 0.59 | 0.79 |
| | Water outlet pipe | inch | 0.59 | 0.59 | 0.79 |
| | Drainage Pipe | inch | 0.59 | 0.59 | 0.79 |
| Dimensions(W×D×H) | outline | mm | 591×591×1685 | 591×591×1935 | 660×667×1958 |
| | Packaged | mm | 703×703×1765 | 703×703×2015 | 813×813×2100 |
| Net weight/Gross weight | | kg | 73.5/88.0 | 79.0/95.5 | 114/139 |
| Loading quantity | 40'GP/40'HQ | set | 48/48 | 48/48 | 28/28 |

| 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. | | ℃ | 0~45 | 0~45 |
| Outwater Temp. | | ℃ | 35~70 | 35~70 |
| Sound power Level(heating)[3] | | dB(A) | 62 | 62 |
| Volume | | L | 150 | 190 |
| Water pipline | Waterinlet pipe | inch | 0.59 | 0.59 |
| | Water outlet pipe | inch | 0.59 | 0.59 |
| | Drainage 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℃, as per EN16147, (EU) No 814/2013.
（3） Value obtained as per EN 12102-2008.

# Integral Type Water Heater

High temperature integral type air source water heater can operate from 20°F to 115°F. Its installation is convenient and it is applicable for a family of 3 to 5 members.

Controller XK80

Self-diagnosis


℃/ °Fswitch

Compact design


Clock display

Intelligent defrosting


Easier maintainability

Child lock

Energy saving function

● 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 temp. 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-2.6/D270ANbA-D |
|---|---|---|---|
| Capacity | | Kbtu/h | 8.9 |
| Power Input | | kW | 0.71+4(Primary Electric Heater) |
| First hour rating | | Gal | 70 |
| UEF67 | | - | 2.97 |
| Refrigerant charge volume | | Oz | 38.8(R134a) |
| Refrigerant design pressure | | PSI | 406 |
| Tank design pressure | | PSI | 116 |
| Running ambient temp. | | °F | 20-115 |
| Outwater Temp. | | °F | 95-140 |
| Sound Pressure Level(heating) | | dB(A) | 46 |
| Volume | | Gal | 72 |
| Water pipline | Waterinlet pipe | Inch | NPT 3/4 |
| | Water outlet pipe | Inch | NPT 3/4 |
| | Drainage Pipe | Inch | NPT 3/4 |
| Dimensions(WxDxH) | outline | Inch | 26.0x26.3x77.1 |
| | Packaged | Inch | 32.0x32.0x82.7 |
| Net weight/Gross weight | | Lbs | 269/324 |
| Loading quantity | 40'GP/40'HQ | set | 28/28 |

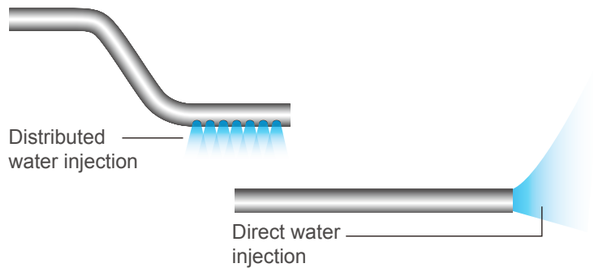

Gree Split Type Water Heater offer you with sufficient hot water, ensuring an warm and comfortable life to each family. The rated water heating capacity ranges from 2.8~3.5kW. They are not only energy-saving but also with high-tech smart technology for your easy control.

# 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. Through precise control and water temperature adjustment.


- **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.




Note: This feature is fit for SXTD200LCJW/C1-K and SXTD200LCJW/C2-K only.

## More Efficiency and Energy-saving Life

Especial compressor system design for hot water, patent 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.


Especial compressor for hot water

Normal compressor

- **Patent 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 precision, operation is safer and more reliable, and the system is more energy-saving and higher efficiency.


Electronic expansion valve

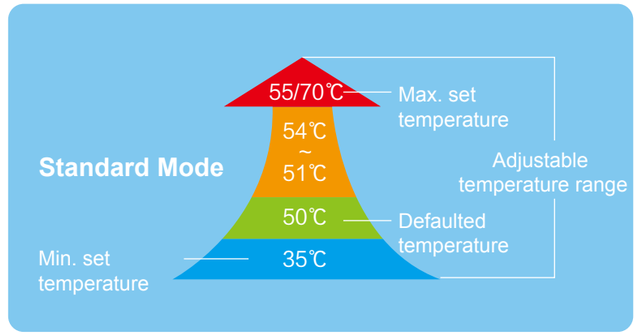
Capillary

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

## Smart Life with Humanized Technology

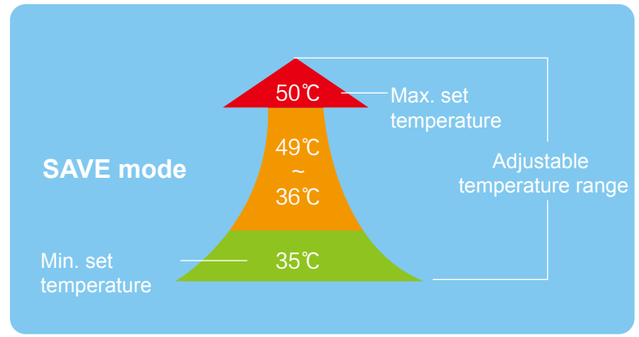
- **Humanized technology:5 kinds of modes for selection**
  The unit is with multiple operation functions. It can realize HOT WATER, SAVE, NIGHT and PRESET hot water mode, and those four kinds of mode according to the selection of user. Meanwhile, user can timer ON and timer OFF.

**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 55/70°C*.




Note:* The model of GRS-S3.5PdG/NaA-K and GRS-S3.5PdG/NaA1-K can reach 55℃, while GRS-S3.0PdG/NaA-K can reach 70℃.

**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 mode:** 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 offer 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.

SXD200LCJW/C1-K
SXD200LCJW/C2-K

SXTD200LCJW/A-K

Controller XK64

Self-diagnosis | ℃/ ℉ switch | Inner groove copper | Compact design | Clock display | Intelligent defrosting | Easier maintainability | Child lock | Energy Saving

- 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 temp. and pressure. The water tank adopts advanced stainless steel 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 kitchen, 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.

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

## Outdoor Unit

| Model | | | GRS-S3.0G/NbA-K | GRS-S3.5PdG/NaA-K | GRS-S3.5PdG/NaA1-K |
|---|---|---|---|---|---|
| Rated Heating Capacity(1) | | W | 2800 | 3500(1800~4000) | 3500(1800~3700) |
| Rated Input Power(1) | | W | 700 | 850(360~1333) | 833(360~910) |
| Load Profile | | - | L | L | L |
| $COP_{DHW}$(2) | | W/W | 2.9 | 3.17 | 3.1 |
| Energy Efficiency Class(2) | | - | A+ | A+ | A+ |
| Water Heating Energy Efficiency(2) | | - | 122% | 129% | 130% |
| Maximum Input Power | | W | 1180+1500W (Electric Heater) | 1500+1500W(Electric Heater) | 2000+1500W(Electric Heater) |
| Outlet Water Temperature | | °C | Default: 55°C, 35°C~70°C | Default: 55°C, 35°C~55°C | Default: 55°C, 35°C~55°C |
| Power Supply | | - | 220V-240V ~50Hz | 220V-240V ~50Hz | 220V-240V ~50Hz |
| Insulation Level | | - | I | I | I |
| Protection of Ingression | | - | IPX4 | IPX4 | IPX4 |
| Refrigerant | Name | | R134a | R410A | R410A |
| | Charge | kg | 1.2 | 1.4 | 1.4 |
| Outline Dimensions | W×D×H | mm | 848×320×540 | 842×320×591 | 842×320×591 |
| Package Dimensions | W×D×H | mm | 948x363x600 | 948x363x660 | 948×363×660 |
| Gross/Net Weight | | kg | 41/35.5 | 44.5/38.5 | 44.5/38.5 |
| Sound Power Level(3) | | dB(A) | 61 | 63 | 63 |
| Operating Range | | °C | -7~45°C | -25~45°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℃, as per EN16147, (EU) No 814/2013.
(3)Value obtained as per EN 12102-2008.
(4)GRS-S3.0G/NbA-K is fixed-frequency model with refrigerant of R134a;GRS-S3.5PdG/NaA-K and GRS-S3.5PdG/NaA1-K are inverter models with refrigerant of R410A.

## Water Tank

| Model | | SXD200LCJW/C1-K | SXD200LCJW/C2-K | SXTD200LCJW/A-K |
|---|---|---|---|---|
| Capacity | L | 185 | 185 | 185 |
| Power Supply for Electric Heater | - | 220V-240V~50Hz | 220V-240V~50Hz | 220V-240V~50Hz |
| Input Power for Electric Heater | W | 1500 | 1500 | 1500 |
| Outline Dimensions(W x D x H) | mm | 545×545×1919 | 545×545×1919 | 462×462 ×1944 |
| Package Dimensions(W x D x H) | mm | 2009×656×625 | 2009×656×625 | 583 × 583×2045 |
| Water Tank Gross/Net Weight | kg | 60/52 | 60/52 | 88/75 |
| Outer Size of Connection Pipe | mm | Φ6, Φ9.52 | Φ6, Φ9.52 | Φ6, Φ9.52 |

Note: (1)The water tank of SXD200LCJW/C1-K/ SXD200LCJW/C2-K is with stainless steel interior.
(2)The water tank of SXTD200LCJW/A-K is with enamel interior.

Versati Ⅱ, a DC inverter muitifunctional air to water heat pump adopting advanced heat pump technology, absorbs natural heat from the ambient air and then heats 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!

# Key Features

## 2nd Generation DC Inverter Air to Water Heat Pump


## Eco-friendly —— Create a Green World

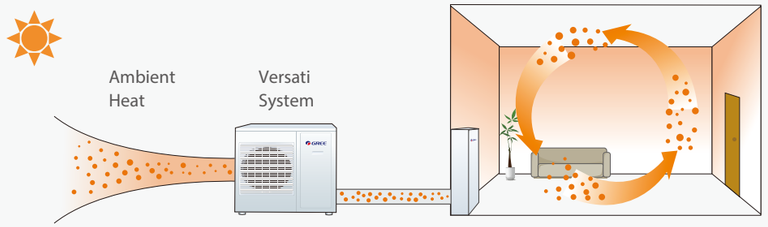
Versati adopts R410A, a new eco-friendly refrigerant which is harmless to the atmosphere. Moreover, with advanced heat pump technology and powerful hardware, the efficiency of Versati has been improved, resulting in much lower $CO_2$ discharge. It is an eco-friendly product, which mirrors your social commitment to protect environment.

# Outdoor Unit:
# Sustainable Energy Converter

Versati Ⅱ adopts DC Inverter Technology and the most efficient Refrigerant R410A with Zero Ozone depletion, with excellent COP up to 4.56.

## Heat Pump Technology Lows the Consumption and $CO_2$ 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 $CO_2$ emissions.




Heat from Outside Air

## Super DC Inverter Technology

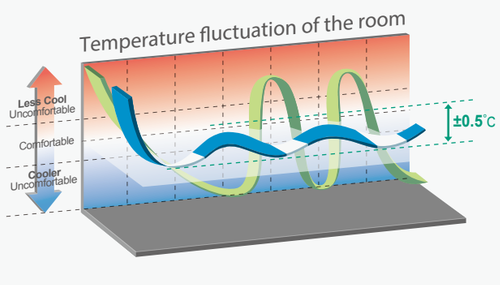
- **Twin Rotary DC Inverter Compressor**
  Compared with traditional compressor, DC inverter compressor has the advantages of high performance and high efficiency.
- **DC Inverter System**
  The inverter technology with high-power and high energy efficiency not only creates comfortable living circumstance, 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.

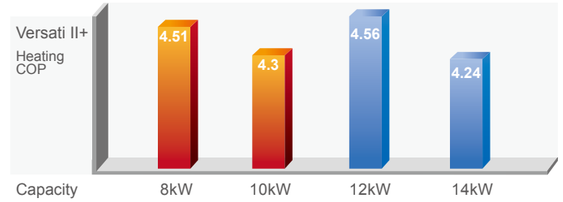
With stepless power regulation technology, the DC Inverter compressor achieves stepless output regulation between 20Hz and 120Hz.

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 4.56

With its perfect class COP performance, Versati delivers more heating power with less energy consumption. The maximum COP is up to 4.56.

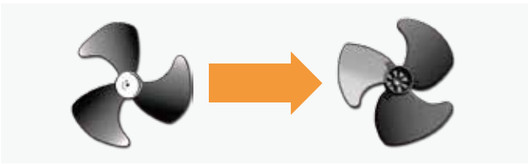



Note: for 1Ph models, for 3Ph models.

Test Standard: EN15411-2011

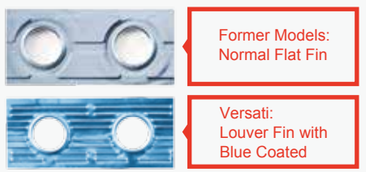
## Fan and Motor

- **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.

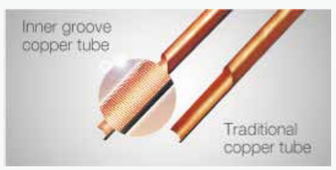


## Heat Exchanger

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

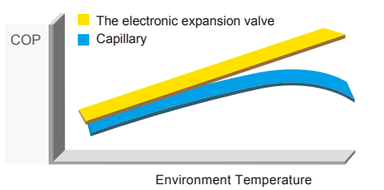



Special thickened inside-thread copper pipe enhances the heat exchange performance by over 8%.




## 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.



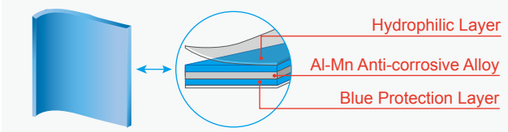

## Comfort

- **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.

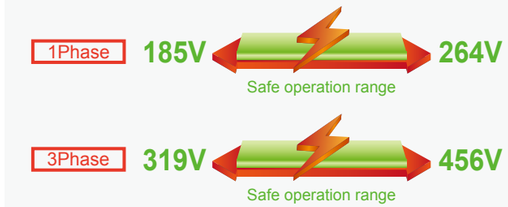
## Reliability

**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

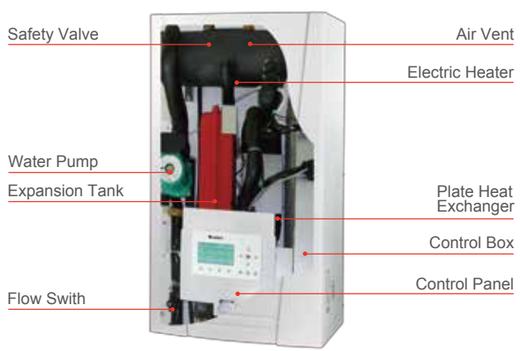
With the self-diagnosis function, the outdoor unit will start auto-protection if the power voltage or the current is out of the normal range. Protection will be cancelled automatically if the power condition resumes normal.

## 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)

**500×324×900mm**

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.

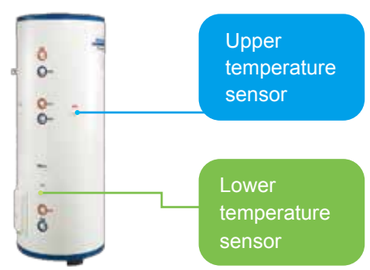
## Comfort

**Smart Dual-temperature Detection Control Technology**

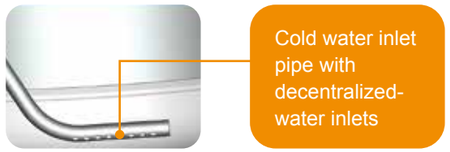
ON and OFF control of the unit is realized by upper and lower temperature sensors, which renews water temperature in real time, thus ensuring the perfect timing of startup:

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.

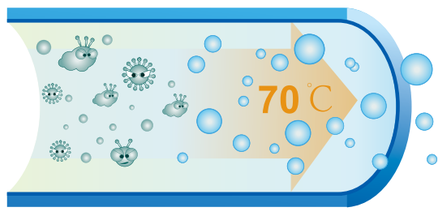


- Water is charged from the bottom and the water inlet pipe has equispaced water inlets, which can reduce cold water shock and enhance the service life of the tank.




## Health

- The domestic water is sanitary and can be used directly.
- The stainless steel 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.



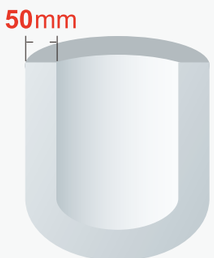

## Flexibility

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

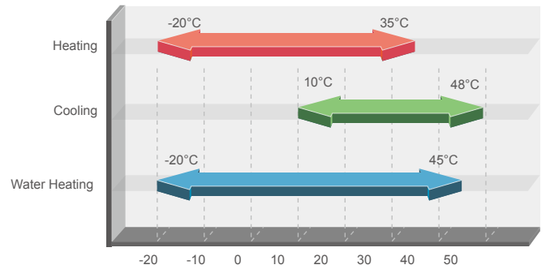
# Flexible Applications

## Five-Mode Operation

Heating | Cooling | Water Heating | Heating + Water Heating | Cooling + Water Heating

- Wide Range of Operation Temperature

| | |
|---|---|
| Heating | -20~35°C |
| Cooling | 10~48°C |
| Water Heating | -20~45°C |



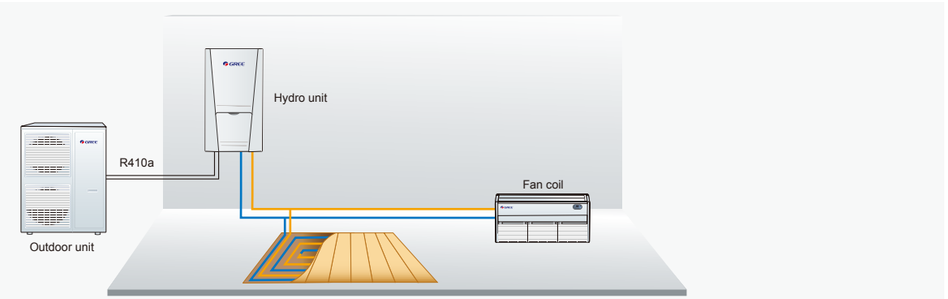

- **Hot Water Temperature Range**
  Domestic water: 40°C to 80°C

Heating: Fan coil/Radiator: 25°C~55°C
Floor : 25°C~45°C

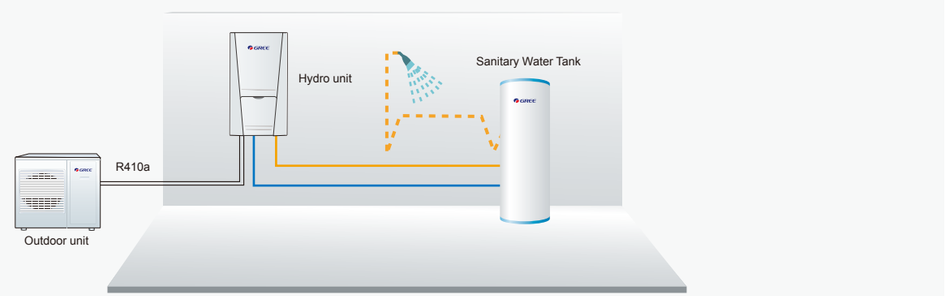
Cooling: Fan coil/Radiator:7°C~25°C
Floor : 18°C~25°C

## Combination Examples:

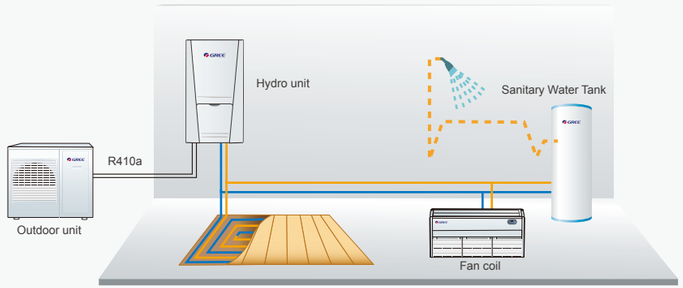
- Heating / Cooling




- Water Heating



- Heating / Cooling with Water Heating




## Multiple Additional Functions and User-friendly Function

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

- Floor Protection
  The heat pump uses the backup electrical heater in case that any fault occurred.

  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 between10°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

R410A INVERTER

# 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, under floor or fan coil for heat radiation.

Golden fin condenser | Auxiliary electric heater | Quiet function | High efficiency | Intelligent defrosting | Energy saving function | Compact design

- 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.

| Mode | Heat Source Side Temperature(℃) | User Side Temperature(℃) |
|---|---|---|
| Heating | -20~35 | 25~55 |
| Cooling | 10~48 | 7~25 |
| Water Heating | -20~45 | 40~80 |

## Specifications

- Outdoor Unit

| Model | | | GRS-CQ8.0Pd/NaE-K(O) | GRS-CQ10Pd/NaE-K(O) | GRS-CQ12Pd/NaE-K(O) |
|---|---|---|---|---|---|
| Power supply | | V/Ph/Hz | 220~240/1/50 | 220~240/1/50 | 220~240/1/50 |
| Capacity*1 | Cooling | kW | 7.8 | 8.2 | 12.5 |
| | Heating | kW | 8 | 10 | 12 |
| Power input*1 | Cooling | kW | 2 | 2.1 | 3 |
| | Heating | kW | 1.8 | 2.3 | 2.8 |
| EER/COP*1 | | W/W | 4.0/4.5 | 3.9/4.4 | 4.2/4.3 |
| Capacity*2 | Cooling | kW | 6.3 | 7.2 | 8.5 |
| | Heating | kW | 7.6 | 9.5 | 11.5 |
| Power input*2 | Cooling | kW | 2.3 | 2.8 | 2.8 |
| | Heating | kW | 2.2 | 2.9 | 3.4 |
| EER/COP*2 | | W/W | 2.7/3.4 | 2.6/3.3 | 3.1/3.38 |
| Refrigerant charge volume | | kg | 2.3 | 2.3 | 3.6 |
| Sanitary water temperature | | ℃ | 40~80 | 40~80 | 40~80 |
| Sound pressure level | Cooling | dB(A) | 54 | 54 | 56 |
| | Heating | dB(A) | 56 | 56 | 58 |
| Connecting pipe | Gas | inch(mm) | φ15.9 | φ15.9 | φ15.9 |
| | Liquid | inch(mm) | φ9.52 | φ9.52 | φ9.52 |
| Dimensions (W×D×H) | Outline | mm | 980×427×788 | 980×427×788 | 900×412×1345 |
| | Packaged | mm | 1097×477×862 | 1097×477×862 | 998×458×1515 |
| Net weight/Gross weight | | kg | 80/89 | 80/89 | 107/117 |
| Loading quantity | 40'GP | set | 96 | 96 | 50 |
| | 40'HQ | set | 96 | 96 | 50 |

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

| Model | | | GRS-CQ14Pd/NaE-K(O) | 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 | 220~240/1/50 | 380~415V/3/50 | 380~415V/3/50 | 380~415V/3/50 |
| Capacity*1 | Cooling | kW | 13.5 | 14.5 | 13.5 | 14.5 | 15 |
| | Heating | kW | 14 | 15.5 | 12 | 14 | 15.5 |
| Power input*1 | Cooling | kW | 3.4 | 3.8 | 3.55 | 4.03 | 4.23 |
| | Heating | kW | 3.3 | 3.75 | 2.86 | 3.41 | 3.82 |
| EER/COP*1 | | W/W | 4.0/4.2 | 3.8/4.1 | 3.8/4.2 | 3.6/4.1 | 3.6/4.05 |
| Capacity*2 | Cooling | kW | 9 | 9.5 | 10 | 10.5 | 11 |
| | Heating | kW | 12.5 | 14.5 | 11.5 | 13 | 14 |
| Power input*2 | Cooling | kW | 3 | 3.3 | 3.33 | 3.62 | 3.86 |
| | Heating | kW | 3.8 | 4.5 | 3.52 | 4.02 | 4.24 |
| EER/COP*2 | | W/W | 3/3.3 | 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 | 3.6 |
| Sanitary water temperature | | ℃ | 40~80 | 40~80 | 40~80 | 40~80 | 40~80 |
| Sound pressure level | Cooling | dB(A) | 56 | 56 | 56 | 56 | 56 |
| | Heating | dB(A) | 58 | 58 | 58 | 58 | 58 |
| Connecting pipe | Gas | inch(mm) | φ15.9 | φ15.9 | φ15.9 | φ15.9 | φ15.9 |
| | Liquid | inch(mm) | φ9.52 | φ9.52 | φ9.52 | φ9.52 | φ9.52 |
| Dimensions (W×D×H) | Outline | mm | 900×412×1345 | 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 | 998×458×1515 |
| Net weight/Gross weight | | kg | 107/117 | 107/117 | 107/117 | 114/124 | 114/124 |
| Loading quantity | 40'GP | set | 50 | 50 | 50 | 50 | 50 |
| | 40'HQ | set | 50 | 50 | 50 | 50 | 50 |

## 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] | ℃ | 18 | 18 | 18 |
| | Cooling[2] | ℃ | 7 | 7 | 7 |
| | Heating[3] | ℃ | 35 | 35 | 35 |
| | Heating[4] | ℃ | 45 | 45 | 45 |
| Pump | Type | - | RS25/7.5 | RS25/7.5 | RS25/7.5 |
| | Nr. of speed | - | 800 / 4770 | 800 / 4770 | 800 / 4770 |
| | Power input | W | 4-75 | 4-75 | 4-75 |
| | Water flow limit | LPM | 25(under the max. pump lift) | | |
| Eletric heater | Operation | - | Yes | Yes | Yes |
| | Steps | - | 2 | 2 | 2 |
| | Capacity | kW | 6 | 6 | 6 |
| | Combination | kW | 3*2 | 3*2 | 3*2 |
| | Power input | Ph/V/Hz | 1Ph/220~240V/50Hz | 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 | φ15.9 |
| | Liquid | inch(mm) | φ9.52 | φ9.52 | φ9.52 |
| Dimensions (W×D×H) | Outline | mm | 981×500×324 | 981×500×324 | 981×500×324 |
| | Packaged | mm | 1043×608×395 | 1043×608×395 | 1043×608×395 |
| Net weight/Gross weight | | kg | 56/65 | 56/65 | 57/66 |
| Loading quantity | 40'GP | set | 205 | 205 | 205 |
| | 40'HQ | set | 246 | 246 | 246 |

| Model | Indoor unit | | GRS-CQ14Pd/NaE-K(I) | GRS-CQ16Pd/NaE-K(I) | GRS-CQ12Pd/NaE-M(I) | GRS-CQ14Pd/NaE-M(I) | GRS-CQ16Pd/NaE-M(I) |
|---|---|---|---|---|---|---|---|
| Power supply | | V/Ph/Hz | 220~240/1/50 | 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] | ℃ | 18 | 18 | 18 | 18 | 18 |
| | Cooling[2] | ℃ | 7 | 7 | 7 | 7 | 7 |
| | Heating[3] | ℃ | 35 | 35 | 35 | 35 | 35 |
| | Heating[4] | ℃ | 45 | 45 | 45 | 45 | 45 |
| Pump | Type | - | RS25/7.5 | RS25/7.5 | RS25/7.5 | RS25/7.5 | RS25/7.5 |
| | Nr. of speed | - | 800 / 4770 | 800 / 4770 | 800 / 4770 | 800 / 4770 | 800 / 4770 |
| | Power input | W | 4-75 | 4-75 | 4-75 | 4-75 | 4-75 |
| | Water flow limit | LPM | 25(under the max. pump lift) | | | | |
| Eletric heater | Operation | - | Yes | Yes | Yes | Yes | Yes |
| | Steps | - | 2 | 2 | 1 | 1 | 1 |
| | Capacity | kW | 6 | 6 | 6 | 6 | 6 |
| | Combination | kW | 3*2 | 3*2 | 6*1 | 6*1 | 6*1 |
| | Power input | Ph/V/Hz | 1Ph/220~240V/50Hz | 1Ph/220~240V/50Hz | 380~415V/3Ph/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 | φ15.9 |
| | Liquid | inch(mm) | φ9.52 | 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 | 981×500×324 |
| | Packaged | mm | 1043×608×395 | 1043×608×395 | 1043×608×395 | 1043×608×395 | 1043×608×395 |
| Net weight/Gross weight | | kg | 57/66 | 57/66 | 58/67 | 58/67 | 58/67 |
| Loading quantity | 40'GP | set | 205 | 205 | 205 | 205 | 205 |
| | 40'HQ | set | 246 | 246 | 246 | 246 | 246 |

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

## Water Tank

| Model | | | | 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 | φ620×1620 |
| | Packaged | W×D×H | mm | 1620×625×630 | 1620×625×630 | 1645×705×710 | 1645×705×710 |
| 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 | φ620×1620 |
| | Packaged | W×D×H | mm | 1620×625×630 | 1620×625×630 | 1645×705×710 | 1645×705×710 |
| 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 |

# VERSATI II+(Monobloc Type)

R410A

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

8-10kW

12-14kW

Wired controller Z263P

| Model | | | GRS-CQ8.0Pd/NaC-K | GRS-CQ10Pd/NaC-K | GRS-CQ12Pd/NaC-M | GRS-CQ14Pd/NaC-M |
|---|---|---|---|---|---|---|
| Power supply | | V/Ph/Hz | 220～240V-1Ph-50Hz | | 380～415V-3Ph-50Hz | |
| Capacity*1 | Cooling*3 | kW | 8.6 | 9.8 | 13.6 | 14.5 |
| | Heating*4 | kW | 8.2 | 9.5 | 13 | 14.2 |
| Power input*1 | Cooling*3 | kW | 2 | 2.5 | 3.45 | 3.7 |
| | Heating*4 | kW | 1.82 | 2.2 | 2.85 | 3.35 |
| EER/COP*1 | | W/W | 4.3/4.51 | 3.92/4.32 | 3.94/4.56 | 3.92/4.24 |
| Capacity*2 | Cooling*5 | kW | 6.7 | 7.4 | 9.55 | 10.3 |
| | Heating*6 | kW | 7.8 | 9.5 | 12.5 | 13 |
| Power input*2 | Cooling*5 | kW | 2 | 2.38 | 3 | 3.3 |
| | Heating*6 | kW | 1.82 | 2.69 | 3.35 | 3.6 |
| EER/COP*2 | | W/W | 3.26/3.39 | 3.1/3.53 | 3.18/3.73 | 3.12/3.61 |
| Refrigerant charge volume | | kg | 3.5 | 3.5 | 4 | 4 |
| Sanitary water temperature | | ℃ | 40~80 | 40~80 | 40~80 | 40~80 |
| Sound pressure level | Cooling | dB(A) | 53 | 53 | 54 | 54 |
| | Heating | dB(A) | 53 | 53 | 54 | 54 |
| Dimensions (W×D×H) | Outline | mm | 1390×412×890 | 1390×412×890 | 1350×381×1438 | 1350×381×1438 |
| | Packaged | mm | 1463×438×1005 | 1463×438×1005 | 1428×418×1465 | 1428×418×1465 |
| Net weight/Gross weight | | kg | 148/161 | 148/161 | 205/220 | 205/220 |
| Loading quantity | 40'GP | - | 80 | 80 | 43 | 43 |
| | 40'HQ | - | 80 | 80 | 43 | 43 |

Note:
1.Capacites 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.Capacites 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.

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

# Versati Ⅱ+ (Split Type)

Versati II+(split type) adopts two-stage compression and enthalpy-adding design, with water leaving temperature as high as 60℃. Thanks to small attenuation of heating capacity under low temperature, it is applicable to high water temperature heating in cold regions.


Golden fin condenser | Auxiliary electric heater | Quiet function | High efficiency | Intelligent defrosting | Energy saving function | Compact design

- It is very powerful, featuring various functions including environment dependency mode, holiday mode, absence mode, weekly timer, clock timer, time and temperature preset, floor setting, etc. to meet different customer demands.
- It adopts two-stage compression and medium air make-up design. Its heating performance under low ambient temperature is exceptionally remarkable, with water leaving temperature as high as 60℃.
- It adopts a special medium control mode to ensure that compressor can always run at the best efficiency.

## Specifications

### 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 |

Note:
1.Capacites 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.Capacites 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 |
| Leaving water temperature | Cooling[1] | ℃ | 18 | 18 | 18 | 18 |
| | Cooling[2] | ℃ | 7 | 7 | 7 | 7 |
| | Heating[3] | ℃ | 35 | 35 | 35 | 35 |
| | Heating[4] | ℃ | 45 | 45 | 45 | 45 |
| Pump | Type | - | Water-cooled | Water-cooled | Water-cooled | Water-cooled |
| | Nr. of speed | - | variable-speed | variable-speed | variable-speed | variable-speed |
| | Power input | W | 105 | 105 | 105 | 105 |
| | Water flow limit | LPM | 12 | 12 | 12 | 12 |
| Electric heater | Operation | - | Automatic | Automatic | Automatic | Automatic |
| | Steps | - | 2 | 2 | 1 | 1 |
| | Capacity | kW | 6 | 6 | 6 | 6 |
| | Combination | kW | 3*2 | 3*2 | 6*1 | 6*1 |
| | Power input | Ph/V/Hz | 1/220/50 | 1/220/50 | 3/400/50 | 3/400/50 |
| 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 | 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 | 56/65 | 56/65 | 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.

Versati III, a DC inverter muitifunctional 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 III, and enjoy a comfortable life all year round!

# Key Features

## 3rd Generation DC Inverter Air to Water Heat Pump


## Eco-friendly —— Create a Green World

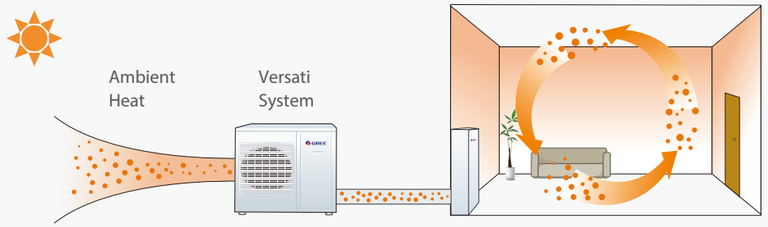
Versati adopts R32, a new eco-friendly refrigerant which is harmless to the atmosphere. Moreover, with advanced heat pump technology and powerful hardware, the efficiency of Versati has been improved, resulting in much lower $CO_2$ discharge. It is an eco-friendly product, which mirrors your social commitment to protect environment.

# Outdoor Unit: Sustainable Energy Converter

Versati III adopts DC Inverter Technology and the most efficient refrigerant R32 with zero ozone depletion, with excellent COP up to 5.0.

## Heat Pump Technology Lows the Consumption and $CO_2$ 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 $CO_2$ emissions.




Heat from Outside Air

## Super DC Inverter Technology

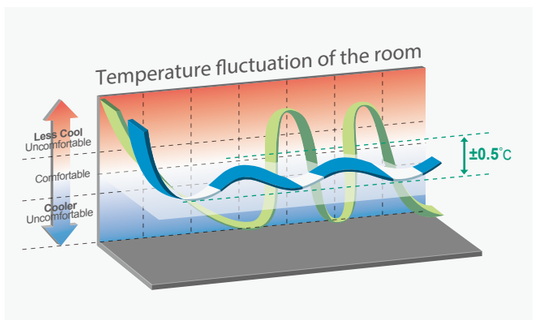
- **Twin Rotary DC Inverter Compressor**
  Compared with traditional compressor, DC inverter compressor has the advantages of high performance and high efficiency.
- **DC Inverter System**
  The inverter technology with high-power and high energy efficiency not only creates comfortable living circumstance, 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.

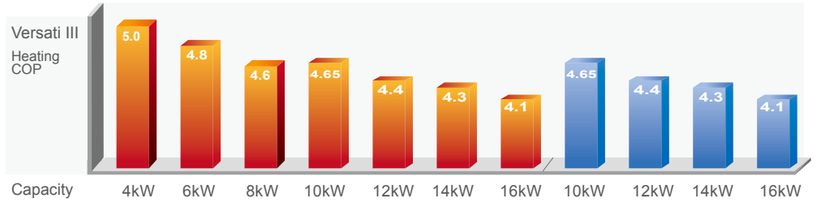
With stepless power regulation technology, the DC Inverter compressor achieves stepless output regulation between 20Hz and 120Hz.

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 5.0

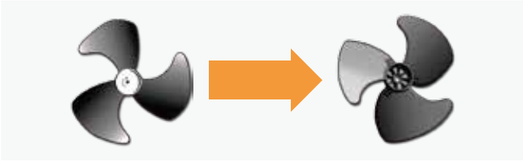



Note: for 1Ph models, for 3Ph models.

Test Standard: EN15411-2011

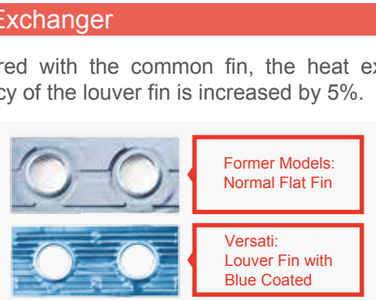
## Fan and Motor

- **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

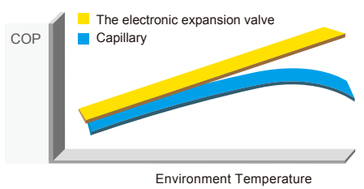
Compared with the common fin, the heat exchange efficiency of the louver fin is increased by 5%.




Special thickened inside-thread 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.



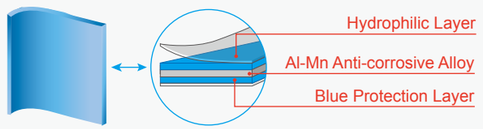

## Comfort

- **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

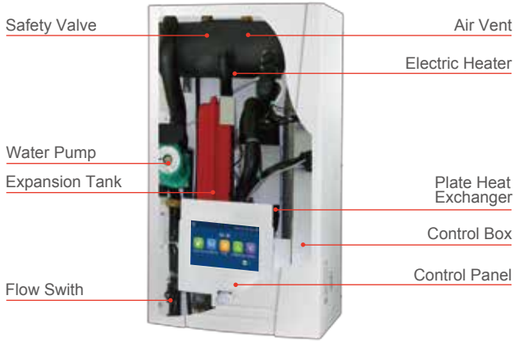
With the self-diagnosis function, the outdoor unit will start auto-protection if the power voltage or the current is out of the normal range. Protection will be cancelled automatically if the power condition resumes normal.

## 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)

**500×324×900mm**

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.

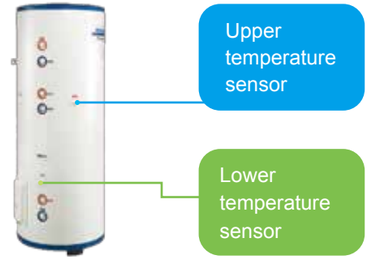

## Comfort

**Smart Dual-temperature Detection Control Technology**

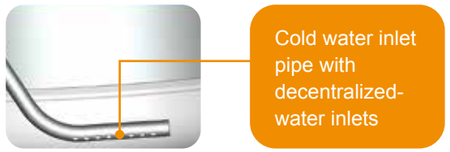
ON and OFF control of the unit is realized by upper and lower temperature sensors, which renews water temperature in real time, thus ensuring the perfect timing of startup:

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.

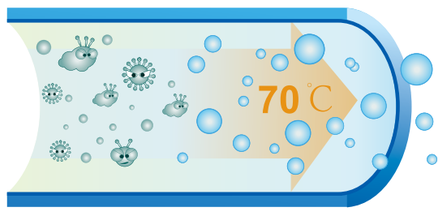


- Water is charged from the bottom and the water inlet pipe has equispaced water inlets, which can reduce cold water shock and enhance the service life of the tank.




## Health

- The domestic water is sanitary and can be used directly.
- The stainless steel 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

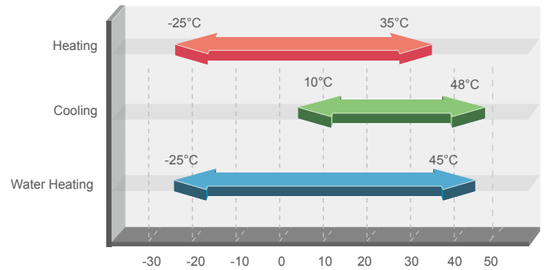
# Flexible Applications

## Five-Mode Operation

Heating | Cooling | Water Heating | Heating + Water Heating | Cooling + Water Heating

- Wide Range of Operation Temperature

| | |
|---|---|
| Heating | -25~35°C |
| Cooling | 10~48°C |
| Water Heating | -25~45°C |



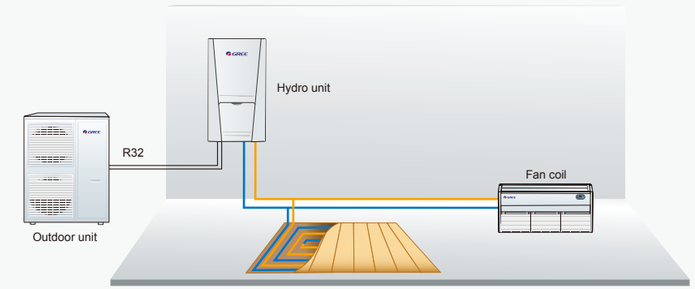

- **Hot Water Temperature Range**
  Domestic water: 40°C to 80°C

Heating: 25°C~60°C

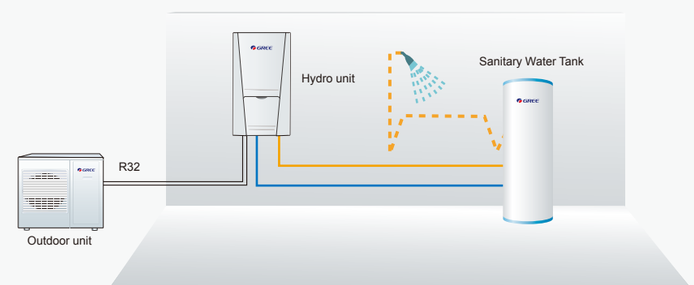
Cooling: 7°C~25°C

## Combination Examples:

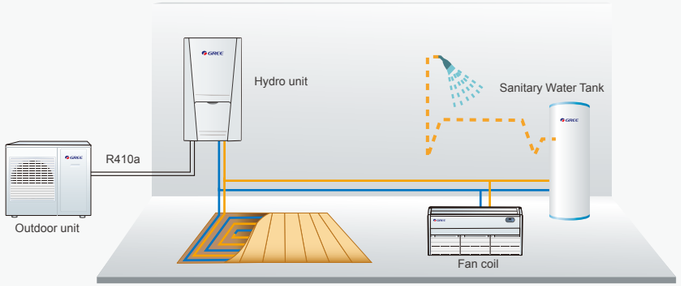
- Heating / Cooling




- Water Heating



- Heating / Cooling with Water Heating




## Multiple Additional Functions and User-friendly Function

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

- Floor Protection
  The heat pump uses the backup electrical heater in case that any fault occurred.

  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 between10°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 III (Monobloc Type)

R32 INVERTER

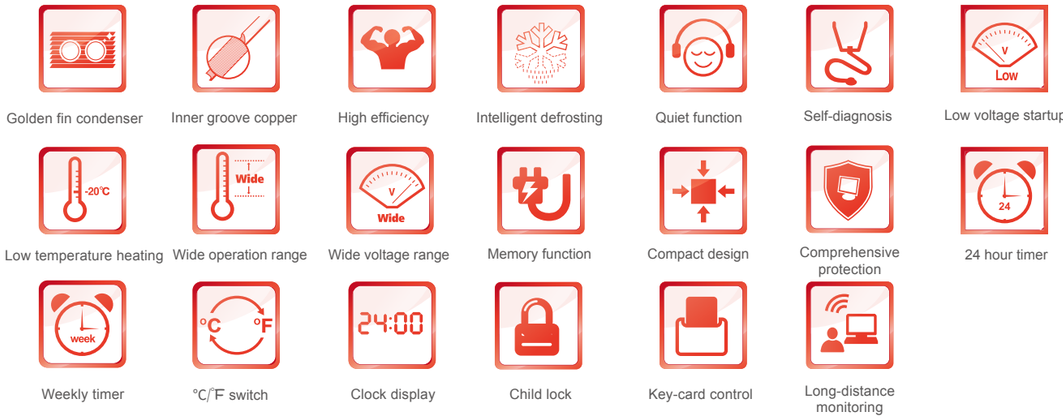
It's a kind of integrated DC inverter unit that comprises cooling, heating and water heating functions, and up to 5.0 energy efficiency. It adopts R32 refrigerant and two-stage compressor. For heating, ambient temperature range is -25~35℃ while the leaving water temperature range is 25~60℃.


4-8kW


10-16kW

Wired Controller ZF63011AJ

CE



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 | ℃/℉ 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 tem temperature up to 60℃, applicable to various heating terminals.

| Item | Water Side<br>Leaving Water Temperature(℃) | Heat Sounce/User Side<br>Environment Dry Bulb Temperature(℃) |
|---|---|---|
| Cooling | 7~25 | 10~48 |
| Heating | 25~60 | -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 | GRS-CQ10Pd/NhG-K | GRS-CQ12Pd/NhG-K | GRS-CQ14Pd/NhG-K |
|---|---|---|---|---|---|---|---|---|
| Power supply | | V/Ph/Hz | 220~240/1/50 | 2220~240/1/50 | 220~240/1/50 | 220~240/1/50 | 220~240/1/50 | 220~240/1/50 |
| 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 | | ℃ | 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 | 220~240/1/50 | 380~415/3/50 | 380~415/3/50 | 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 | | ℃ | 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 |

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.

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

# VERSATI III (Split Type)

R32 INVERTER

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℃.





CE

| Item | Water Side Leaving Water Temperature(℃) | Heat Sounce/User Side 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

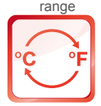

Memory function


Comprehensive protection


Long-distance monitoring

24 hour timer

Weekly timer



℃/℉ 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

### Outdoor Unit

| Model | | | GRS-CQ4.0Pd/NhH-K(O) | GRS-CQ6.0Pd/NhH-K(O) | GRS-CQ8.0Pd/NhH-K(O) | GRS-CQ10Pd/NhH-K(O) | GRS-CQ12Pd/NhH-K(O) |
|---|---|---|---|---|---|---|---|
| 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 |
| Capacity*1 | Cooling*3 | kW | 3.8 | 5.8 | 6.8 | 8.8 | 11 |
| | Heating*4 | kW | 4 | 6 | 7.5 | 10 | 12 |
| Power input*1 | Cooling*3 | kW | 0.82 | 1.32 | 1.55 | 1.96 | 2.56 |
| | Heating*4 | kW | 0.78 | 1.2 | 1.63 | 2.17 | 2.64 |
| 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 |
| Capacity*2 | Cooling*5 | kW | 3 | 4 | 5 | 7.8 | 9.5 |
| | Heating*6 | kW | 4 | 6 | 7.5 | 10 | 12 |
| Power input*2 | Cooling*5 | kW | 0.94 | 1.29 | 1.56 | 2.48 | 3.11 |
| | Heating*6 | kW | 0.98 | 1.56 | 2 | 2.7 | 3.33 |
| 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 |
| Refrigerant charge volume | | kg | 0.87 | 0.87 | 0.87 | 2.2 | 2.2 |
| Sanitary water temperature | | ℃ | 40~80 | 40~80 | 40~80 | 40~80 | 40~80 |
| Sound pressure level | cooling | dB(A) | 52 | 52 | 52 | 58 | 58 |
| | heating | dB(A) | 54 | 54 | 54 | 61 | 61 |
| Connecting pipe | Gas | inch(mm) | 16 | 16 | 16 | 16 | 16 |
| | Liquid | inch(mm) | 9.52 | 9.52 | 9.52 | 9.52 | 9.52 |
| Dimensions (W × D × H) | Outline | mm | 955×369×700 | 955×369×700 | 980×360×788 | 980×360×788 | 900×412×1345 |
| | Packaged | mm | 1026×455×735 | 1026×455×735 | 1097×478×967 | 1097×478×967 | 998×458×1515 |
| Net weight/Gross weight | | kg | 54/58 | 54/58 | 80/89 | 80/89 | 106/118 |
| Loading quantity | 40'GP | set | 171 | 171 | 96 | 96 | 50 |
| | 40'HQ | set | 171 | 171 | 96 | 96 | 50 |

| Model | | | GRS-CQ14Pd/NhH-K(O) | GRS-CQ16Pd/NhH-K(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 | 220~240/1/50 | 220~240/1/50 | 380~415/3/50 | 380~415/3/50 | 380~415/3/50 | 380~415/3/50 |
| Capacity*1 | Cooling*3 | kW | 12.5 | 14.5 | 8.8 | 11 | 12.5 | 14.5 |
| | Heating*4 | kW | 14 | 15.5 | 10 | 12 | 14 | 15.5 |
| Power input*1 | Cooling*3 | kW | 3.05 | 3.82 | 1.96 | 2.56 | 3.05 | 3.82 |
| | Heating*4 | kW | 3.22 | 3.6 | 2.17 | 2.64 | 3.22 | 3.6 |
| EER/COP*1 | | W/W | 4.1/4.35 | 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 | 12 | 13 | 7.8 | 9.5 | 12 | 13 |
| | Heating*6 | kW | 14 | 15.5 | 10 | 12 | 14 | 15.5 |
| Power input*2 | Cooling*5 | kW | 4.14 | 4.73 | 2.48 | 3.11 | 4.14 | 4.73 |
| | Heating*6 | kW | 3.94 | 4.56 | 2.7 | 3.33 | 3.94 | 4.56 |
| EER/COP*2 | | 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 |
| Refrigerant charge volume | | kg | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 |
| Sanitary water temperature | | ℃ | 40~80 | 40~80 | 40~80 | 40~80 | 40~80 | 40~80 |
| Sound pressure level | cooling | dB(A) | 58 | 58 | 58 | 58 | 58 | 58 |
| | heating | dB(A) | 61 | 61 | 61 | 61 | 61 | 61 |
| Connecting pipe | Gas | inch(mm) | 16 | 16 | 16 | 16 | 16 | 16 |
| | Liquid | inch(mm) | 9.52 | 9.52 | 9.52 | 9.52 | 9.52 | 9.52 |
| Dimensions (W × D × H) | Outline | mm | 900×412×1345 | 900×412×1345 | 980×360×788 | 900×412×1345 | 900×412×1345 | 900×412×1345 |
| | Packaged | mm | 998×458×1515 | 998×458×1515 | 1097×478×967 | 998×458×1515 | 998×458×1515 | 998×458×1515 |
| Net weight/Gross weight | | kg | 106/118 | 106/118 | 80/89 | 106/118 | 106/118 | 106/118 |
| Loading quantity | 40'GP | set | 50 | 50 | 96 | 50 | 50 | 50 |
| | 40'HQ | set | 50 | 50 | 96 | 50 | 50 | 50 |

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

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

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

## Specifications

### Indoor Unit

| Model | | | GRS-CQ4.0Pd//NhH-K(I) | GRS-CQ6.0Pd/NhH-K(I) | GRS-CQ8.0Pd/NhH-K(I) | GRS-CQ10Pd/NhH-K(I) | GRS-CQ12Pd/NhH-K(I) |
|---|---|---|---|---|---|---|---|
| Power supply | | V/Ph/Hz | 220~240/1/50 | 220~240/1/50 | 220~240/1/50 | 220~240/1/50 | 220~240V/1/50 |
| Nominal input | | W | 100 | 100 | 100 | 100 | 100 |
| 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 | 75 | 75 | 75 | 75 | 75 |
| | Water flow limit | LPM | 9 | 9 | 9 | 9 | 9 |
| Electric heater | Operation | - | Field Supply | Field Supply | Field Supply | Field Supply | Field Supply |
| | Steps | - | 2 | 2 | 2 | 2 | 2 |
| | Capacity | kW | 3 | 3 | 3 | 3 | 3 |
| | Combination | kW | 3+3 | 3+3 | 3+3 | 3+3 | 3+3 |
| | Power input | V/Ph/Hz | 220~240V/1Ph/50Hz | 220~240V/1Ph/50Hz | 220~240V/1Ph/50Hz | 220~240V/1Ph/50Hz | 220~240V/1Ph/50Hz |
| Sound pressure level | | dB(A) | 31 | 31 | 31 | 31 | 31 |
| Connecting pipe | Gas | inch(mm) | 16 | 16 | 16 | 16 | 16 |
| | Liquid | inch(mm) | 9.52 | 9.52 | 9.52 | 9.52 | 9.52 |
| Dimensions (W × D × H) | Outline | mm | 981 × 500× 324 | 981 × 500× 324 | 981 × 500× 324 | 981 × 500× 324 | 981 × 500× 324 |
| | Packaged | mm | 1040 × 608 × 395 | 1040 × 608 × 395 | 1040 × 608 × 395 | 1040 × 608 × 395 | 1040 × 608 × 395 |
| Net weight/Gross weight | | kg | 57/66 | 57/66 | 57/66 | 57/66 | 57/66 |
| Loading quantity | 40'GP | set | 205 | 205 | 205 | 205 | 205 |
| | 40'HQ | set | 246 | 246 | 246 | 246 | 246 |

| Model | | | GRS-CQ14Pd/NhH-K(I) | GRS-CQ16Pd/NhH-K(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 | 220~240V/1Ph/50Hz | 220~240V/1Ph/50Hz | 380~415V/3Ph/50Hz | 380~415V/3Ph/50Hz | 380~415V/3Ph/50Hz | 380~415V/3Ph/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 | 75 | 75 |
| | Water flow limit | LPM | 9 | 9 | 9 | 9 | 9 | 9 |
| Electric heater | Operation | - | Field Supply | Field Supply | Field Supply | Field Supply | Field Supply | Field Supply |
| | Steps | - | 2 | 2 | 2 | 2 | 2 | 2 |
| | Capacity | kW | 3 | 3 | 3 | 3 | 3 | 3 |
| | Combination | kW | 3+3 | 3+3 | 3+3 | 3+3 | 3+3 | 3+3 |
| | Power input | 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 |
| Sound pressure level | | dB(A) | 31 | 31 | 31 | 31 | 31 | 31 |
| Connecting pipe | Gas | inch(mm) | 16 | 16 | 16 | 16 | 16 | 16 |
| | Liquid | inch(mm) | 9.52 | 9.52 | 9.52 | 9.52 | 9.52 | 9.52 |
| Dimensions (W × D × H) | Outline | mm | 981 × 500 × 324 | 981 × 500 × 324 | 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 | 1043 × 608 × 395 | 1043 × 608 × 395 |
| Net weight/Gross weight | | kg | 57/66 | 57/66 | 57/66 | 57/66 | 57/66 | 57/66 |
| Loading quantity | 40'GP | set | 205 | 205 | 205 | 205 | 205 | 205 |
| | 40'HQ | set | 246 | 246 | 246 | 246 | 246 | 246 |

Note:
1.Capacites and power inputs are based on the following conditions:
- Cooling conditions.
  Outdoor air temperature 35℃CDB/-WB.
  Entering water temperature 23℃.
  Leaving water temperature 18℃
- Heating conditions.
  Outdoor air temperature 7℃CDB/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℃CDB/-WB.
  Entering water temperature 12℃.
  Leaving water temperature 7℃
- Heating conditions.
  Outdoor air temperature 7℃CDB/6℃WB.
  Entering water temperature 40℃.
  Leaving water temperature 45℃
  Standing piping length 5m.

## Note

# Award and Certification







ISO 9001 Quality System Certificate

ISO 14001 Environment Management System Certificate

ISO 18001 Occupation Healthy Safety System Certificate

Canadian CSA Certificate

German TÜV Certificate

3C Certificate

European Communities CE Certificate

American UL Certificate

Russian Safety Certificate

EQM

SASO Certificate

Mexico NOM Safety Certificate

German GS Certificate

European EMC Certificate

Argentina Safe Certificate

China EMC Certificate

Hongkong Energy-saving Certificate

Hongkong Safety Certificate

Australian SAA Safe Certificate

Australia SAA Certificate

CQC Certificate

America ETL Certificate

Canadian ETL Certificate

Thailand TIS Certificate