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# *Versati II+ Hot Water Heating System*



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# Versati II+ Key Features



Versati II+ Split



Versati II+ Monobloc

## Gree Versati II+ Heat Pump

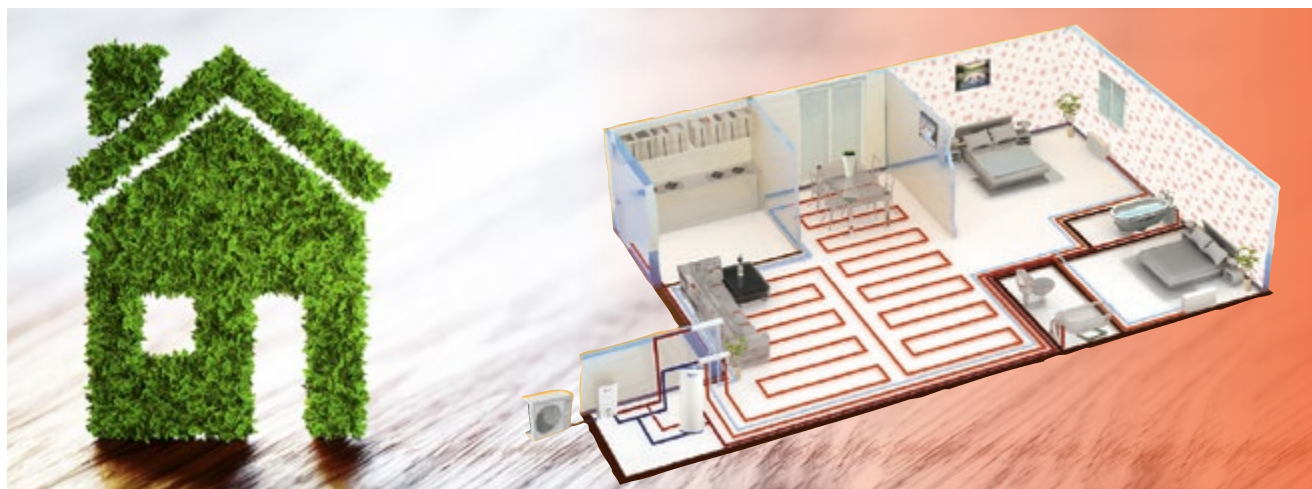
The Versati II+ Hot Water series is a DC inverter, multifunction air to water heat pump which has adopted advanced heat pump technology. Working on the same principle as a regular heat pump the Versati II+ units absorb natural heat from the ambient air and use this to heat water for home heating and domestic hot water usage. In summer the Versati II+ can reverse cycle and provide cold water for summer cooling.

The Versati II+ Series is the latest in domestic and light commercial energy efficient hot water heating. With a massive operating range from -20°C to 45°C it is perfectly suited to all applications in New Zealand. From the Southern Alps to those scorching summer days in central Canterbury the Gree Versati II+ Series has got your water heating covered.

The Versati II+ Hot Water system is available in two configurations the Versati II+ Split and the Versati II+ Monobloc depending on your specific requirements.

## Eco-friendly

The Versati II+ System uses R410A, a more eco-friendly refrigerant which has an ozone depletion rating of zero. Moreover, with advanced heat pump technology and powerful hardware, the efficiency of your Versati II+ has been improved, resulting in much lower energy consumption. It is an eco-friendly product, which is in line with our social commitment to protect the environment.



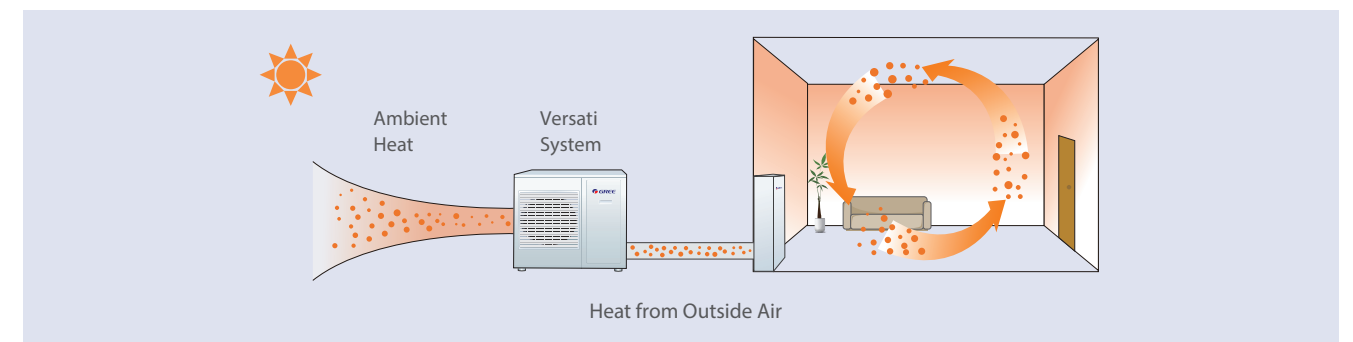
# Sustainable Energy

Versati II+ uses DC Inverter Technology, R410a refrigerant with Zero Ozone Depletion and achieves a C.O.P. of up to 4.56

## Heat pump Technology Lower Energy Consumption and CO2 Emissions

The Versati II+ system utilises Heat Pump Technology, which extracts the heat energy from the outside air and increases its temperature for domestic heating purposes.

Using the Versati II+ hot water heat pump system rather than traditional heating methods such as natural gas or electric elements reduces your energy consumption and as a result your CO2 emissions. Not only is the Versati II+ saving you money thanks to its superior energy efficiency it is also reducing your impact on the environment.

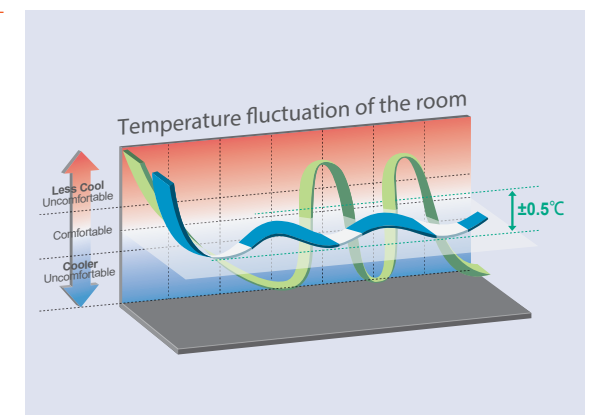


## Super DC Inverter Technology

Traditional systems operate on an "On/Off" cycle causing large and frequent temperature fluctuations. By adopting DC inverter technology the Versati II+ compressor regulates its output according to the cooling/heating load to achieve higher energy efficiency.

The Versati II+ compressors provide stepless power regulation between 20Hz and 120Hz resulting in much smoother operation.

The 180° sine wave current output uses a smaller start-up current, lower torque pulse and free speed regulation between 900 and 6600rpm. It enables the system to adapt to the heat load variations quickly and seamlessly with less stress on components resulting in a more reliable, energy efficient system.





COP up to 4.56

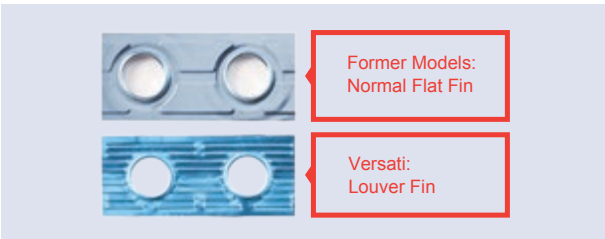
Versati II+ has exceptional heating efficiency with a maximum COP of up to 4.56. That is up to a huge 356% increase in heating output when compared to a traditional electric element heating system. While still consuming the same amount of power

Fan and Motor

- Efficient Axial Fan**  
The Versati II+ units come with efficient axial fans. Designed using the most advanced Computational Fluid Dynamics methods, they offer a balance of powerful cooling and low running noise to ensure reliable and steady operation of the system.
- DC Fan Motor**  
The stepless adjustment of the DC fan motor ensures higher air flow volume and lower power consumption.

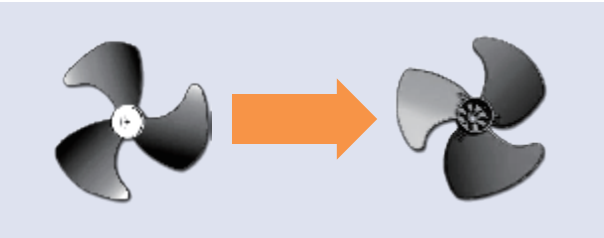
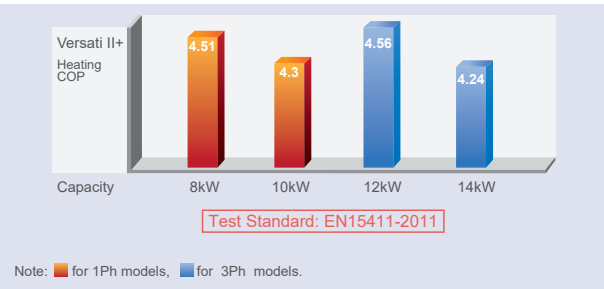
Heat Exchanger

Compared with common heat exchanger fins the Versati II+ system uses the unique louver fin design with an increase in heat transfer efficiency by 5%.

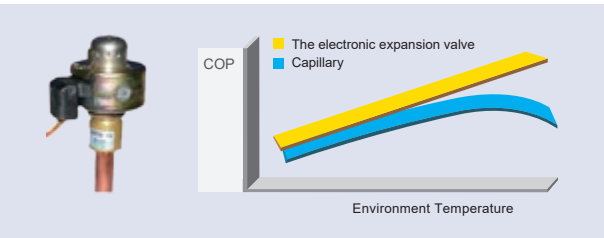


Electronic Expansion Valve

The electronic expansion valve allows more flexible operation. It can automatically adjust the throttle according to the refrigerant demand based on the stability of the system. It is more energy efficient and stable than a traditional capillary tube based system.



Special internal grooved copper pipe increases the rate of heat transfer to the fins of the Heat Exchanger increasing the heat exchanger performance by over 8%

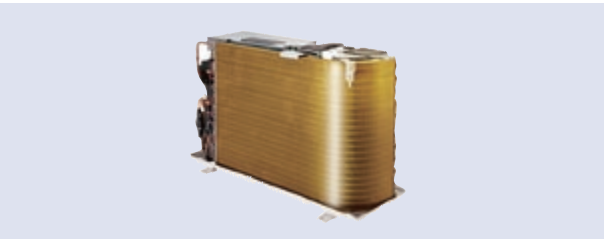


Comfort

- Precise Temperature Regulation**  
The combination of the electronic expansion valve and DC inverter compressor guarantees that the system can automatically make adjustments in the most efficient way according to the ambient and water conditions.
- Quiet Mode**  
By adjusting the output of the compressor and fan, the operational noise of the unit can be decreased by more than 3dB(A), at night time or where quiet operation is desired.

Reliability

- Gold Fin**  
The outdoor units feature Gold Fin coating on the outdoor coil. This improves efficiency by accelerating the defrost process and offers greater resistant to corrosive elements. Gold fin coils perform 20x better under salt spray testing than Blue Fin Coils.
- Wide Voltage Range Operation**  
Versati II+ units are designed to operate through a wider range of voltages, this means better reliability where the power supply is unstable.

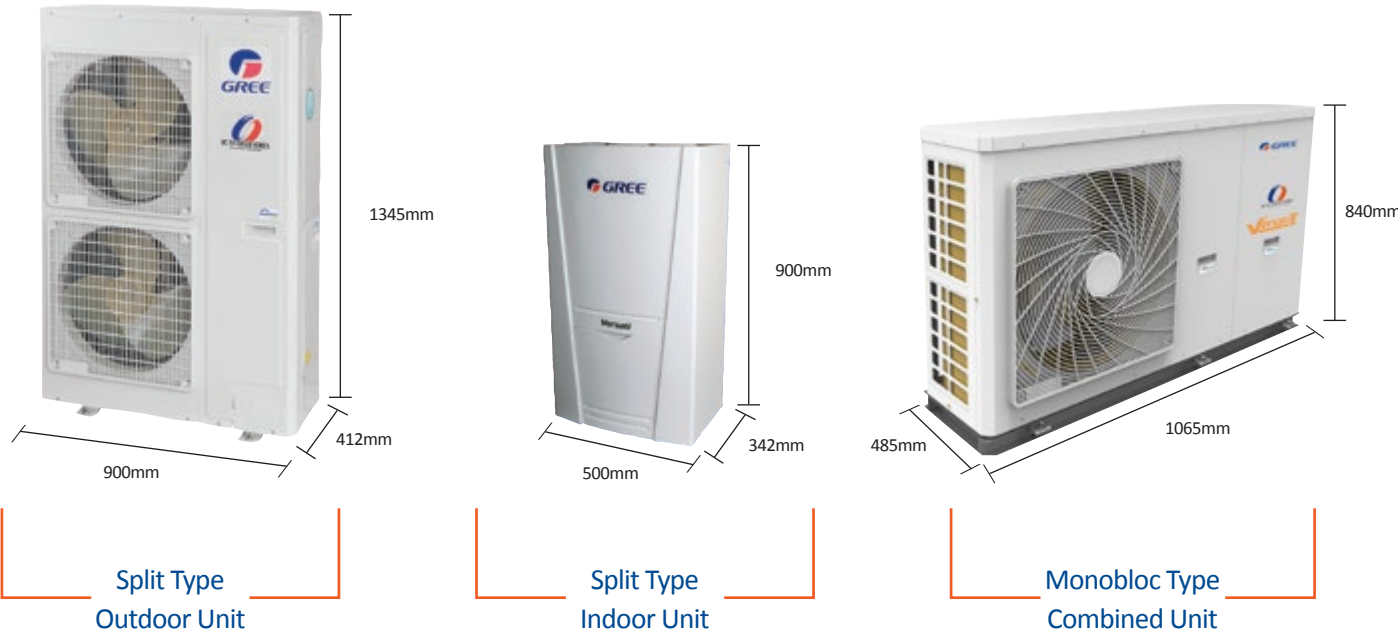


Power fault Self-diagnosis

With the self-diagnosis function you can be confident that your investment is protected from power fluctuations. The Versati II+ units will start auto-protection if the voltage or the current is outside of the normal operating range. This protection will be cancelled automatically when the power returns to its normal range.

Flexible, Compact Design

Choose between the Versati II+ Split Type or the Versati II+ Monobloc depending on your installation limitations. The Versati II+ units have been designed to be as compact as is practical. Saving on transport costs and the operational footprint all without compromising on the serviceability of the units components.



Split Type

Outdoor Unit: Contains the Heat Pump  
Indoor Unit: Contains the expansion tank, heat exchanger, safety valve, water pump, control box and controller

Monobloc Type

Unit contains the Heat Pump, expansion tank, heat exchanger, safety valve and water pump  
\*Unit Control is supplied separately

Five Operating Modes

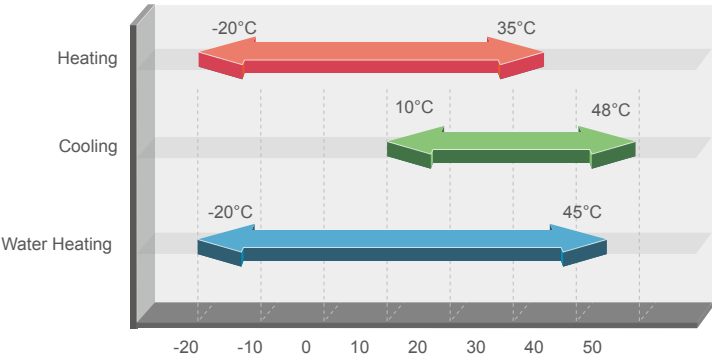
- Heating
- Cooling
- Water Heating
- Heating + Water Heating
- Cooling + Water Heating

Wide Range of Operation Temperature

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

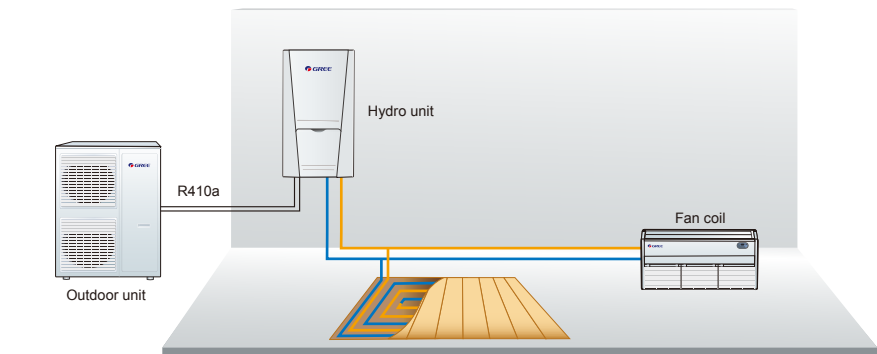
Hot Water Temperature Range

Domestic water: 40°C to 80°C

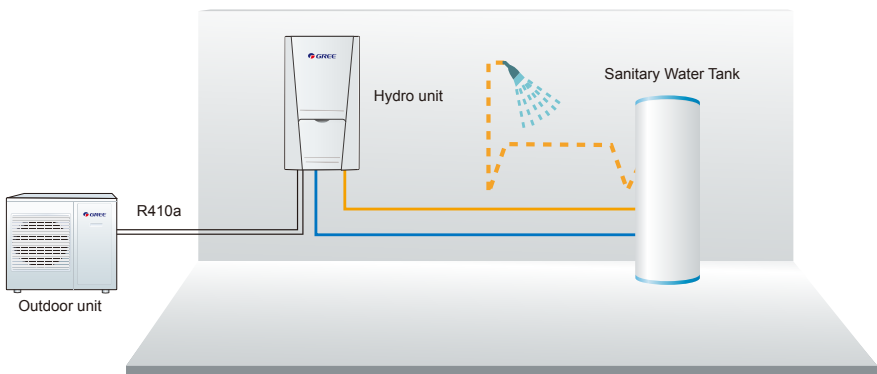


- Heating: Fan coil/Radiator: 25°C~55°C  
Floor : 25°C~45°C
- Cooling: Fan coil/Radiator: 7°C~25°C  
Floor : 18°C~25°C

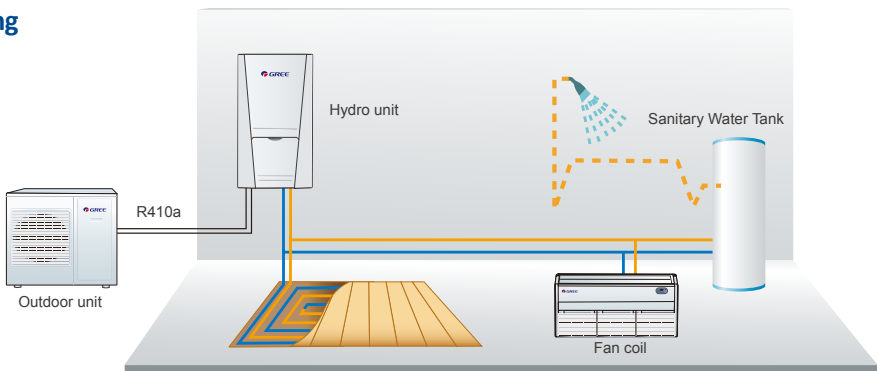
Heating / Cooling



Water Heating



Heating / Cooling with Water Heating



High Efficiency

Versati II+ Hot Water Heat Pumps are fitted with high COP brazed plate heat exchangers to ensure maximum heat transfer between the refrigerant and the water in the system. The heat exchangers are carefully selected to ensure the highest efficiency possible.



Intelligent Control

The advanced temperature control of the system allows the timer to be programmed per hour or per day. As a result this gives you the flexibility to automatically reduce the temperature at night or during your holiday in order to save power, but still have pleasantly warm water when you get up or return home.



Additional Functions

- Urgent Water Heating**  
The heat pump uses the backup electrical heater if a fault occurs..
  - Under Floor Heating**  
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 )
  - Quick Water Heating**  
The heat pump and the electric heater of the water tank can operate at the same time for rapid heating.
  - Holiday Mode**  
When the user is on a trip in winter, the unit can be set to operate automatically so as to keep the room temperature between 10°C and 15°C.
  - ON/OFF Timer**
  - Day/Weekly/Count-down Timer**
  - Weekly Programme**
- Emergency Operation Mode**  
(for Heating and Water Heating only)
  - Under floor cooling**  
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)
  - Disinfection**  
The water will be heated to 70°C at a set time to kill the bacteria in the water. The disinfection is usually carried out at night.
  - 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**
  - Forced Operation & Silent Modes**
  - Central Control**



# Versati II+ Split Type



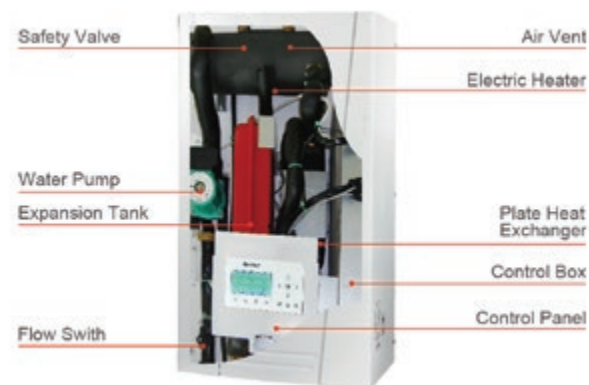
Indoor Unit



Outdoor Unit

## Specifications

The indoor hydro-box transfers the heat energy in the refrigerant to the water circulated in the central heating radiators, underfloor 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 to radiators or underfloor for summer cooling. The Versati II+ Split Type is suitable for applications where there is a long distance between where the hot water is required and where the outdoor unit can be mounted.



## Versati II+ Specifications (Split Type)

Model - Outdoor Unit			GRS-CQ16Pd/NaB-K(O)
Part Number			AC7704 / O
Power Supply		V/Ph/Hz	220~240V-1Ph-50HZ
Capacity (Underfloor)	Cooling	kW	14.5
	Heating	kW	15.5
Power Input (Underfloor)	Cooling	kW	4.53
	Heating	kW	3.78
EER/COP (Underfloor)		W/W	3.2 / 4.1
Capacity (Underfloor)	Cooling	kW	10.5
	Heating	kW	14
Power Supply (Underfloor)	Cooling	kW	3.96
	Heating	kW	4
EER/COP		W/W	2.65 / 3.5
Refrigerant Charge Volume		kg	3.2
Sanitary Water Temperature		°C	40~80
Sound Pressure Level	Cooling	dB(A)	57
	Heating	dB(A)	58
Connecting Pipe Diameter	Gas	inch(mm)	φ 5 / 8 (15.9)
	Liquid	inch(mm)	φ 3 / 8 (9.52)
Dimensions (W x D x H)	Outline	mm	900x412x1345
	Packaged	mm	995x455x1500
Net Weight/Gross Weight		kg	106 / 118
Loading Quantity	40'GP	-	50
	40'HQ	-	50

Model - Indoor Unit			GRS-CQ16Pd/NaB-K(I)
Part Number			AC7704 / I
Power Supply		V/Ph/Hz	1 / 220 - 240 / 50
Nominal Input		W	6200
Leaving Water Temperature	Cooling (FCU)	°C	7~25
	Cooling (Underfloor)	°C	18~25
	Heating (FCU)	°C	25~55 (High)
	Heating (Underfloor)	°C	25~45 (Low)
Pump	Type	-	Water-cooled
	Nr. of Speed	-	3
	Power Input	W	200
	Water Flow Limit	LPM	12
Electric Heater	Operation	-	Automatic
	Steps	-	2
	Capacity	kW	3
	Combination	kW	3+3
Power Input		Ph/V/Hz	1 / 230 / 50
Sound Pressure Level		dB(A)	31
Connecting Pipe Diameter	Gas	inch(mm)	φ 5 / 8 (15.9)
	Liquid	inch(mm)	φ 5 / 8 (15.9)
Dimensions (W x D x H)	Outline	mm	900x500x324
	Packaged	mm	1043x608x395
Net Weight/Gross Weight		kg	57 / 66
Loading Quantity		40'GP / 40'HQ	-
			205 / 246

**Underfloor Test Conditions:** Cooling: Ambient Air 35oC DB/24oC WB, Water 23oC EWT/18o LWT. Heating: Ambient Air 7oC DB/6oC WB, Water 30oC EWT/35o LWT  
**Fan Coil Unit Test Conditions:** Cooling: Ambient Air 35oC DB/24oC WB, Water 12oC EWT/7o LWT Heating: Ambient Air 7oC DB/6oC WB, Water 40oC EWT/45o LWT  
Technical specifications are tested under laboratory conditions and may differ as a result of installation application.



# Versati II+ Monobloc Type



### Versati II+ Monobloc Type

The Versati II+ Monobloc Type is a fully self-contained Hot Water Heat Pump unit. The unit contains everything you need all in one. Just connect the water pipes, electrical power and the controller and your good to go. It even includes the water pump.

It is ideal for applications where you can position the outdoor unit close to where the hot water is required. It has the advantage over the Split Type unit where fewer installation resources are required.

### Versati II+ Specification (Monobloc)

Model			GRS-CQ10Pd/NaC-K	GRS-CQ14Pd/NaC-M
Part Number			AC7701	AC7703
Capacity (Underfloor)	Heating	kW	9.5	14.2
	Cooling	kW	9.8	14.5
EER/COP		W/W	3.7/4.3	3.9/4.24
Capacity (FCU)	Heating	kW	9.5	13
	Cooling	kW	7.4	10.3
EER/COP (FCU)		W/W	3.1/3.53	3.1/3.61
Sanitary Water Temp		oC	40-80	40-80
Sound Pressure		db	53	54
Operating Temp Range		oC	-20 to 45	-20 to 45
Dimensions		mm	1390x890x420	1350x1438x381
Power Supply		-	1 Phase	3 Phase
Refrigerant Charge Volume		Kg	3.5	4
Net Weight/ Gross Weight		Kg	149/61	209/20
Water Flow Volume		m³/h	1.6	2.4

**Underfloor Test Conditions:** Cooling: Ambient Air 35oC DB/24oC WB, Water 23oC EWT/18o LWT. Heating: Ambient Air 7oC DB/6oC WB, Water 30oC EWT/35o LWT  
**Fan Coil Unit Test Conditions:** Cooling: Ambient Air 35oC DB/24oC WB, Water 12oC EWT/7o LWT. Heating: Ambient Air 7oC DB/6oC WB, Water 40oC EWT/45o LWT  
Technical specifications are tested under laboratory conditions and may differ as a result of installation application.

### *Gree 5 Year Warranty*

Have peace of mind knowing that your Gree Versati II+ Hot Water Heat Pump is covered by our industry leading 5 year comprehensive parts and labour warranty.



### *Gree Electric Appliances Inc. Of Zhuhai*

Based in the thriving industrial city of Zhuhai in China, GREE Electric Appliances is the world's largest specialised air conditioning enterprise. With nine manufacturing plants producing over 7,000 different models, sold to over 100 countries.

GREE employs over 5,000 R & D staff. This has allowed them to develop a wide range of quality products featuring energy saving technology, intelligent temperature control, smart defrosting and a wide range of filter options.

GREE's use of quality materials and state of the art manufacturing facilities has resulted in GREE maintaining its No 1 residential air conditioning global sales position since 2005. With more than 200 million users of residential air-conditioners globally, it's a quality you can trust.



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