NEW

GREE
HEAT PUMPS

Torea Ducted Air Conditioners and Heat Pumps



Wifi

R32

6 GREE YEAR WARRANTY

Find out more at www.greeac.co.nz



Gree Torea Ducted Air Conditioners and Heat Pumps

As an island nation, New Zealand has a strong connection to the sea, with around 65% of the population living within five kilometres of the coast*. That is why Gree designed the Torea range of ducted air conditioners and heat pumps to withstand New Zealand's demanding conditions.



We have named the series after the Torea, a native New Zealand coastal bird. Gree NZ in partnership with Birdcare Aotearoa will continue to support the excellent work they do with New Zealand birds.

Built to Last with C3 Diamond Corrosion Protection

The Torea is designed for demanding environments, C3 Diamond corrosion protection creates a durable barrier against corrosion to help maintain dependable performance and a quality finish.

From moderate industrial settings to coastal conditions, it delivers lasting strength, resilience and confidence - protecting your equipment for longer.

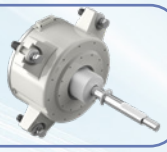
*Ministry for the Environment

Reliability - Anti-Corrosion

1 **Fastener**
Zinc-Nickel alloy plating; 316/304 stainless steel screws/bolts



2 **Motor**
End cover: zinc magnesium aluminum alloy; motor shaft: stainless steel

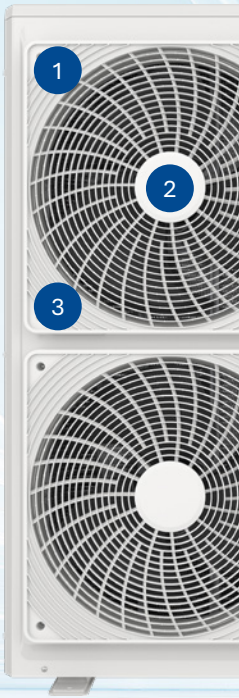


3 **Condenser**
Black acid-resistant aluminum foil; U-pipe, liquid-distribution head and others'surface spraying special heavy-duty paint



4 **Pressure Vessel**
Apply special heavy-duty anti-corrosion paint







Why settle for standard when Gree gives better

C3 Diamond Corrosion Protection: Built Tough Against Corrosion

For equipment installed in demanding environments, C3 Diamond corrosion protection provides an enhanced barrier against corrosion, helping extend service life.

Its advanced coating system protects key components, including the outdoor coil and exposed metal surfaces, from moisture, humidity and airborne contaminants.

Ideal for coastal, industrial and agricultural locations, C3 Diamond protection delivers added durability where standard factory protection may not be enough.

Choose a Gree ducted system with C3 Diamond corrosion protection for greater reliability from day one.

By reducing corrosion-related deterioration, it helps maintain heat-exchanger performance and protects your HVAC investment for longer.



5 **Compressor**
Apply anti-corrosive special heavy-duty paint



6 **Magnetic Coil**
Zinc-Nickel alloy coating



7 **Electrical Box**
Pure polyester powder
(weather resistant white) spraying



8 **PCB**
Three-Layer three resin



9 **Sheet Metal**
Pure polyester powder
(weather resistant white) spray



Product Lineup

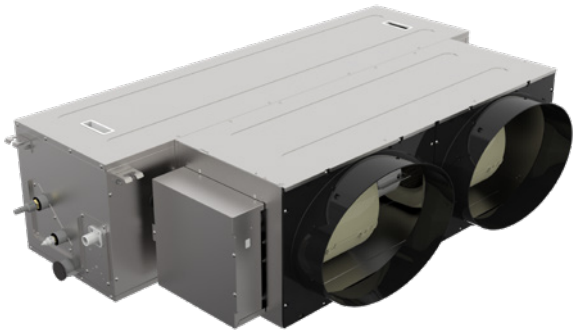
Gree's new range of Torea R32 Ducted Air Conditioners and Heat Pumps, incorporate Gree's latest climate control technology. New compressors, new coil design, all DC components and dynamic fluid design for greater and quieter airflow. This means a more efficient heat pump, with less intrusion into your home.



5.0 ~ 7.1kW



10kW



12.5 ~ 20kW

The Gree Torea R32 ducted air conditioners and heat pumps come in seven different models from 5.0 to 20kW* with adjustable air flows and splitable indoor units⁺, there is a model perfect for your home.



5kW



7.1 / 10/ 12.5kW



14 / 16 / 18 / 20kW

*Values stated on cooling.

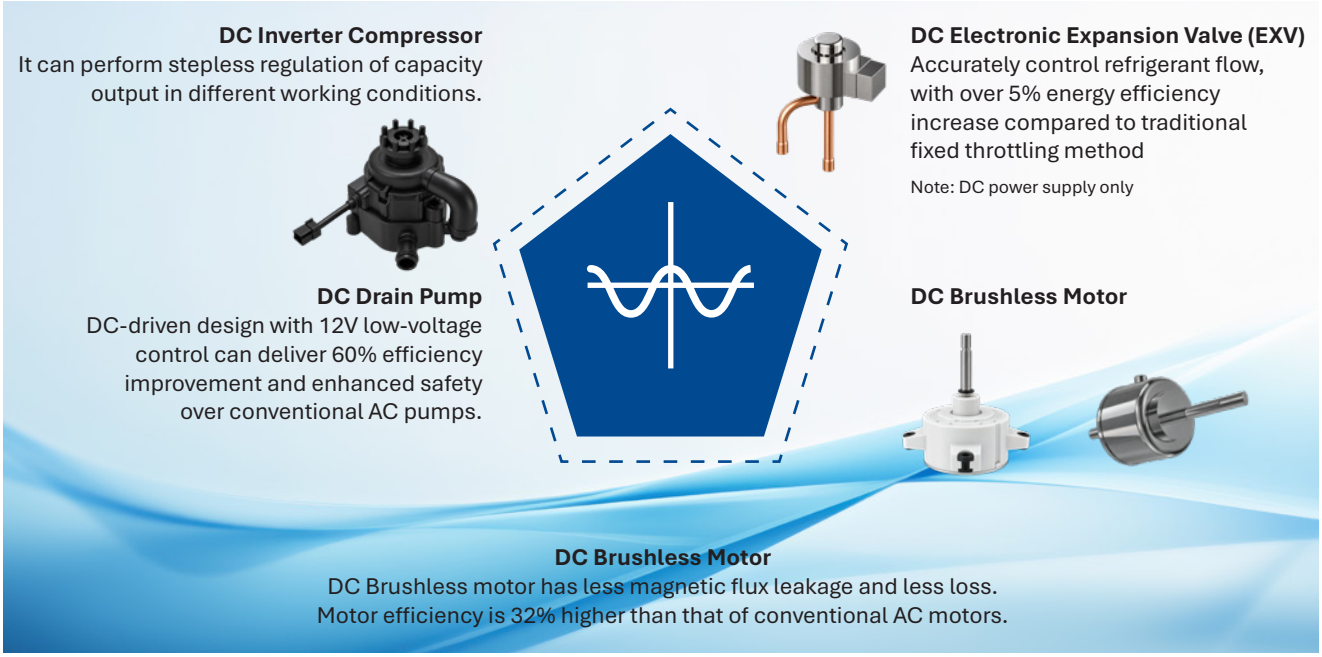
⁺Models 42 ~ 72 only.



Energy Efficiency & Performance

Energy Efficiency

All DC componentry improves energy efficiency, from the DC Inverter compressor with its step less capacity output, to brushless DC fan motors providing greater energy savings over older AC motors, to the DC electronic expansion valve offering precise control, each component contributes to better energy use.



Improved Design

Each small step improves energy efficiency. From Improved rifling on the inner copper tubes to increase the internal heat transfer surface area, to low resistant refrigerant distribution within the coil, new coil fins with an optimised wind field design, Bionic fan blades with improved aerodynamic performance and a new “rain drop” grille for low wind resistance, all together these steps contribute to increased heat exchange efficiency and better use of your energy.

Fast Cooling & Heating

Fast cooling and heating, the turbo mode will quickly heat or cool your home and once it gets to the correct temperature, will return automatically back to normal operation. A humidity sensor is fitted as standard and works in cohesion with the temperature sensors to effectively control the effect of humidity on thermal comfort.



Enjoy Comfort with Your Family

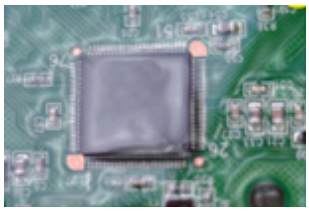
Why choose a Gree Torea ducted Air Conditioner or Heat Pump?

At Gree New Zealand we offer a six-year warranty; our confidence in offering this warranty goes back to the sound engineering that goes into the development of all Gree products.

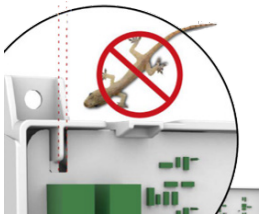
The new Gree Torea range comes with refrigerant cooling of the outdoor PCB to prevent overheating and a fire-rodent proof electrical box. The outdoor PCB is coated with three layers of Aus Guard to prevent corrosion. There is a full suite of safety features as standard with self-diagnosis to make servicing easier. The outdoor chassis is made of zinc coated and painted, mild steel. The coils fin stock is protected by a hydrophilic coating. The unit will operate under a wide voltage and temperature range and has auto restart and a closed loop start-up program.



Before Coating



After Coating



Gap < 3mm

Insect-proof Design

Intelligent Control

Built-in Bluetooth, Wi-Fi and Modbus networking makes installation, connection and control simple. Multifunction timers and central controller connectivity, you can monitor and manage your system with ease. Everything you need to control your system efficiently, right at your fingertips.



Built-in Modbus

Auto-Adaptive Static Pressure

During commissioning the system can be set to automatically adjust the required static pressure for different airflow demands. This allows the unit to optimise airflow performance across different ductwork configurations and operating conditions, while helping to maintain consistent air distribution and reduce unnecessary fan energy consumption.



Product Features

Product Features

Features	GFH18	GFH24	GFH36	GFH42	GFH48	GFH60	GFH65	GFH72
Sleep	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Auto Fan	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Quiet	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Pre-heat	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
X Fan	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Auto Clean Ind*	Yes	Yes	No	No	No	Yes	Yes	Yes
High Static	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Timer	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Auto restart (Power Cut)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Turbo Modes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Self-diagnosis	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Child Lock	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Mode LED	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Intelligent – Defrost	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Forced Defrost	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Eco Mode	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
8°C Heating	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Low Ambient Cooling	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Low Voltage start-up	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Water Pump	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
WiFi Control	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes



Sleep Modes



Auto Fan


Quiet Function


Pre Heat



X-fan


Auto Clean


High Static



Timer


Auto-Restart



Turbo Button


Self-Diagnosis


Child Lock



LED Display


Intelligent Defrost


Forced Defrost


Eco Mode



8ºC Heating Mode



Low Ambient Cooling



Low Voltage Startup


Water Pump



WiFi Control

Features that Make Installation Easier

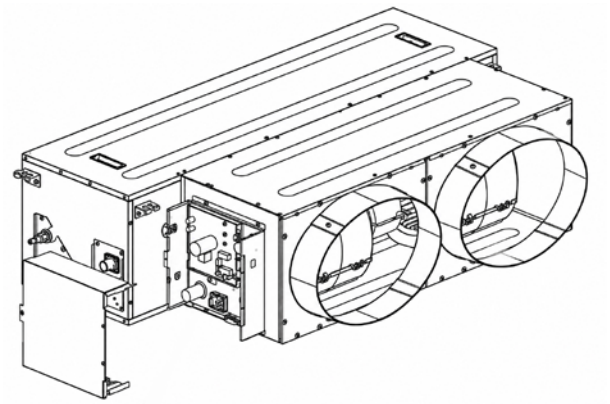
Splitable Design[+]

Retrofitting ducted heat pumps can sometimes be awkward. Gree have solved this by making the indoor unit splitable. This allows the fan deck and the coil to be separated and installed into the ceiling through a 450mm square opening.



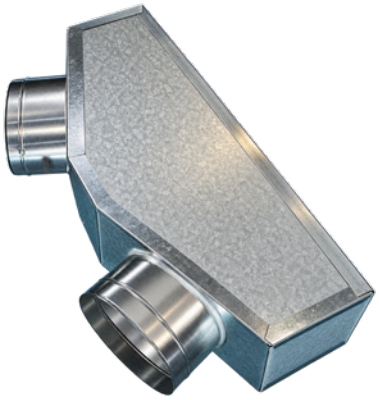
[+]Models 42 ~ 72 only.

Outlet Dimensions



RE Part Number	Model	Item	Size	Spigots
AC0380S	GFH18	Supply	745x145	2 x Ø300
AC0380R		Return	807x203	1 x Ø400
AC0381S	GFH24	Supply	745x220	2 x Ø300
AC0381R		Return	876x239	1 x Ø400
AC0382S	GFH36	Supply	756x200	2 x Ø300
AC0382R		Return	965x269	2 x Ø400
AC0383S	GFH42/48	Supply	1157x300	2 x Ø350
AC0385S	GFH60/65/72	Supply	1157x300	2 x Ø400

12.5kW - 20kW units come with pre-fitted 400mm return spigots.

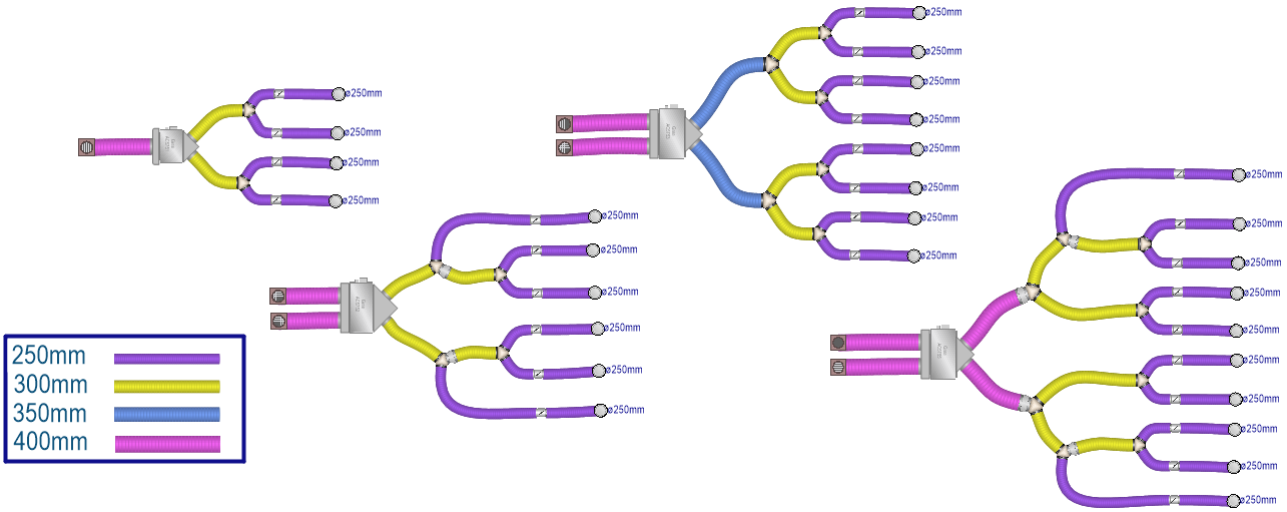




Duct Kits & Duct Design

Gree Universal Duct Kits

The Gree duct kits are a pre-engineered kit featuring light weight plenums, diffusers, Y branches, return grilles, tape and insulated ducting to suit the full range of Gree Torea ducted air conditioners and heat pumps.

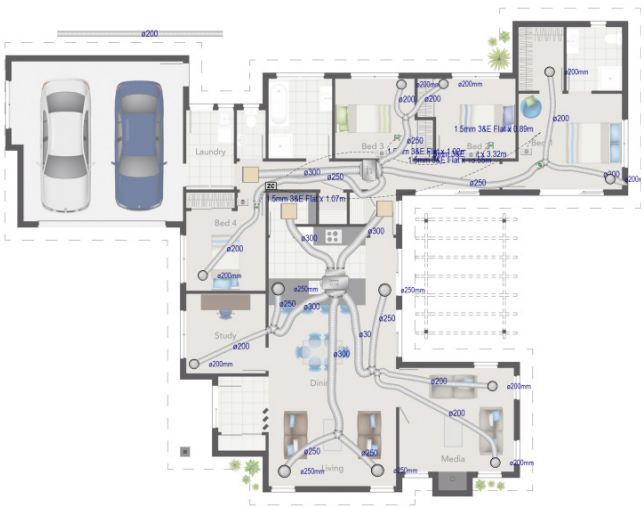


The Duct Kits Come in Four Sizes

RE Part Number	Description	Number of outlets	Suitable for:
AC0390	4 zone duct kit	4	GFH18 & 24
AC0391	6 zone duct kit	6	GFH36
AC0392	8 zone duct kit	8	GFH42 & 48
AC0393	10 zone duct kit	10	GFH60, 65 & 72

Duct Design

Universal duct kits may not fit every situation, so Gree offer a free duct design service for residential and light commercial projects. This service is offered through the Gree Dealer network.





Technical Specification

Technical Specification

Type		Torea Ducted							
Model	Ind	GFH18KBXE-S6DNK2D/I	GFH24ACXF-S6DNE3D/I	GFH36DBXH-S6DND2D/I	GFH42DEXK-S6DND7D/I	GFH48DEXL-S6DND7D/I	GFH60DEXL-S6DND7D/I	GFH65DEXL-S6DND7D/I	GFH72DEXL-S6DND7D
	Out	GFH18KBXE-S6DNK2D/O	GFH24ACXF-S6DNE3D/O	GFH36DBXH-S6DND2D/O	GFH42DEXK-S6DND7D/O	GFH48DEXL-S6DND7D/O	GFH60DEXL-S6DND7D/O	GFH65DEXL-S6DND7D/O	GFH72DEXL-S6DND7D
RE Part Number		AC5521 / AC5511	AC5522 / AC5512	AC5523 / AC5513	AC5524 / AC5514	AC5525 / AC5515	AC5526 / AC5516	AC5527 / AC5517	AC5528 / AC5518
GEMS Reg Number		AAC9853	AAC10252	AAC10434	AAC9958	AAC9936	AAC9965	AAC10155	New 2027
Performance									
Cooling Capacity	kW	5.1 (0.8~6.2)	7.1 (2.13~7.9)	10 (3.3~11.95)	12.5 (4.6~13.3)	14 (4.9~16)	16 (4.4~17.6)	18 (5.36~19.8)	19.5 (5.36~20.5)
Heating Capacity	kW	5.7 (1.6~6.2)	7.6 (1.9~8.5)	12 (3.8~13.53)	14 (2.9~15.5)	16 (5.1~18)	18 (5.1~19.8)	19.5 (5.54~21.45)	21 (5.54~22)
Cooling Power Input	kW	1.55	1.95	3.1	3.7	4.1	4.79	5.61	6.29
Heating Power Input	kW	1.58	1.79	3.25	3.55	4.1	4.68	5.15	6.75
Rated Input	kW	2.3	2.82	4.23	5.1	5.8	5.6	6.4	6.8
Cooling AEER	--	3.44	3.51	3.37	3.35	3.37	3.34	3.14	3.1
Heating ACOP	--	3.76	4.17	3.71	3.90	3.97	3.86	3.72	3.1
Heating Capacity H2	kW	4.88	6.43	9.1	10	12.1	13.4	14.68	--
Heating Power Input H2	kW	1.93	2.22	3.2	3.48	4.19	4.3	5.0	--
COP H2	W/W	2.53	2.89	2.84	2.87	2.89	3.12	2.91	--
SERL Star Label	Cool	3.0/2.5/2.0	3.5/3.0/3.0	3.0/3.0/3.0	3.0/3.0/3.0	3.0/3.0/3.0	3.5/3.0/3.5	3.0/3.0/3.0	--
Hot / Ave / Cold	Heat	--	3.0/2.5/2.0	3.5/2.5/1.5	3.0/2.5/1.5	3.5/2.5/2.0	3.5/2.5/2.0	3.5/2.5/1.5	--
Dehumidification Capacity	L/h	1.8	2.4	3.7	3.7	4.3	4.3	4.6	4.6
Air Flow Volume Max	L/sec	292	417	569	778	847	903	958	958
ESP - Factory Set	Pa	25	25	37	50	50	50	60	60
ESP - Range	Pa	0~60	0~100	0~200	0~200	0~200	0~200	0~200	0~200
Sound Pressure (min/max) - Ind	dB (A)	30 / 37	35 / 42	38 / 46	41 / 47	43 / 51	44 / 52	42 / 51	41 / 49
Sound Power - Ind	dB (A)	52	61	60	67	67	66	67	67
Sound Pressure / Power - Out	dB (A)	56 / 69	56 / 69	55 / 69	58 / 71	60 / 70	60 / 70	60 / 73	60 / 73
Electrical									
Power Supply Outdoor	V-Hz-Ph	220~240/50/1							
Recommended Circuit Breaker	A	16	25	25	32	32	32	32	40
Nominal Current (Cool/Heat)	A	6.8 / 6.8	8.75 / 8.78	14 / 14	16.5 / 16	18.5 / 18	21.5 / 21.1	24.78 / 23.7	27.9 / 29.9
Power Cable Conductor	mm2	1.5	2.5	4	4	4	4	4	4
Min/Max. Voltage	V	198/264	198/264	198/264	198/264	198/264	198/264	198/264	198/264
Control Wiring	--	3 Core plus Earth (4 Cables)							
Dimensions and Weights									
Indoor Dimensions (WxHxD)	mm	900x198x450	900x260x655	1130x300x754	1350x360x855	1350x360x855	1350x360x855	1350x360x855	1350x360x855
Indoor Net Weight	kg	17.5	29	42	55	59	58	58	58
Outdoor Dimensions (WxHxD)	mm	873x555x376	958x650x402	1000x746x427	940x820x370	900x1260x340	900x1260x340	900x1260x340	900x1260x340
Outdoor Net Weight	kg	37	42.5	57	64	87	94	97.5	97.5
Installation									
Operation Temp Range Cool	°C	-10 ~ 56	-15 ~ 56	-15 ~ 56	-15 ~ 56	-15 ~ 56	-15 ~ 56	-15 ~ 56	-15 ~ 56
Operation Temp Range Heat	°C	-15 ~ 24	-15 ~ 24	-15 ~ 24	-15 ~ 24	-15 ~ 24	-15 ~ 24	-15 ~ 24	-15 ~ 24
Refrigerant Type	--	R32							
Refrigerant Charge	kg	1.05	1.2	2.1	2.2	3.2	3.5	3.7	3.7
Max Distance Height	m	25	25	30	30	30	30	30	30
Max Distance Length (Pre-charge)	m	35 (5)	30 (5)	50 (5)	75 (5)	75 (5)	75 (5)	75 (5)	75 (5)
Additional Charge	g/m	20	20	35	35	35	35	35	35
Pipe Connection	mm	ϕ6 ~ ϕ12	ϕ6 ~ ϕ12	ϕ9.52 ~ ϕ15.88	ϕ9.52 ~ ϕ15.88	ϕ9.52 ~ ϕ15.88	ϕ9.52 ~ ϕ15.88	ϕ9.52 ~ ϕ15.88	ϕ9.52 ~ ϕ19
Plenum Size Supply	mm	140 x 740	215 x 740	195 x 751	295 x 1152	295 x 1152	295 x 1152	295 x 1152	295 x 1152
Plenum Size Return	mm	198 x 802	234 x 871	264 x 960	c/w 2 x Ø400 spigots				
Drain Connection	mm	26	26	26	26	26	26	26	26

Disclaimer: Technical specifications and product information are provided for reference only and are subject to change without prior notice. Please refer to the latest product documentation or contact your local branch for confirmation.



Notes



Gree Electric Inc of Zhuhai has an excellent research and development system consistently proving strong science and technology innovation capabilities.

Adhering to the principles of “independent research and development of core technologies” and “investment as needed without an upper limit”, the Company has built a multi-level research and development system based on the national scientific research platforms.

Gree Electric has built the world’s largest air conditioning and heat pump R&D centre. Gree has established an Academic workspace consisting of, 16 Institutes, 152 Research Institutions, 1,411Laboratories, as well as a National Engineering Technology Research Centre, a State-level Industrial Design Centre, a State Recognized Enterprise Technology Centre, and a Robotics Engineering Technology R&D Centre.

In addition, Gree has also become a research and evaluation base for refrigeration equipment of the National Notification & Enquiry Centre, and a national standard verification point (for energy efficiency of refrigeration equipment). The Company continuously improves its technology innovation system that is “enterprise-centred, market-oriented, and combined industry, academia, and research”.

Gree Electrics’ steady increase in the number and quality of patents applied for and granted, with abundant scientific and technological achievements fully shows its industry-leading invention and creation capabilities and continuously solid research and development strength to the world.

Gree NZ supports
BirdCare Aotearoa

For Installation and Sales:

For Parts and Warranty:

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