



Fern Series



- Sleek Modern Design
- Eco-Friendly R32 Refrigerant
- Stepless Comfort for Precise Temperature Control
- Sprint Mode for Fast Heating and Cooling
- Golden Fin For Anti-Corrosion
- Wi-Fi Enabled (Requires Optional Wi-Fi Kit)
- 7 Year Warranty



Carrier
 New Zealand's First
7 YEAR WARRANTY



Carrier Comfort Connect

Take control of your climate remotely through the Wi-Fi Ready* APP on your smartphone. With just a simple swipe, you will be able to turn the air conditioner on/off and select the appropriate mode and temperature. Set timers for the week using the smartphone APP.

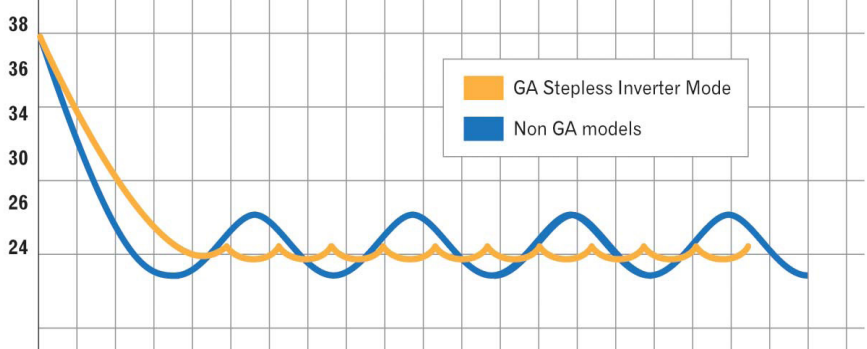
*Wi-Fi kit purchased separately (Wi-Fi Kit code CA04-OSK103).



Stepless Comfort

The frequency of Inverter air conditioners fluctuates during operation, leading to variations in room temperature. However, the Fern series with its GA Stepless compressor frequency is so smooth that room temperature variations are barely noticeable.

TEMPERATURE GRAPH



COOLING:

Even at temperatures of up to +50°C the system can still provide cooling without any interruptions.

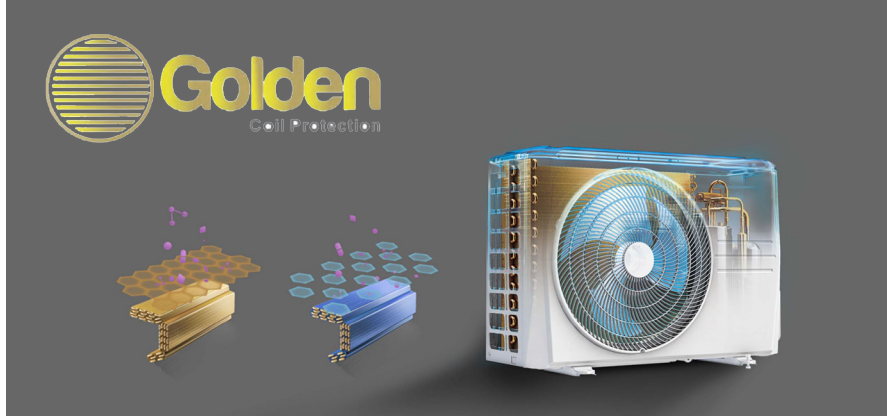
HEATING:

The system will continue heating even at temperatures as low as -15°C.



Golden Fin

The anti-corrosive coating on the outdoor unit heat exchangers have a special protective coating designed to resist water droplets settling and forming rust and effective in some seaside locations. 5-layer precision structure on the indoor unit features anti-corrosion, self-lubrication, and self-cleaning function for higher efficiency.



X-ECO Mode

Cleverly steps the electrical frequency and fan speeds down while maintaining comfort for more economical management of running costs.






Smart Diagnosis

Smart Diagnosis automatically tests 97 functions via the mobile APP. Once a problem is detected, the air conditioner will display the error code "EC". Alternatively, you can give your air conditioner a self-check by simply swiping your finger on the APP to see if any maintenance is needed. It's almost like having your own personal technician on call 24 hrs a day!



Sprint Activation

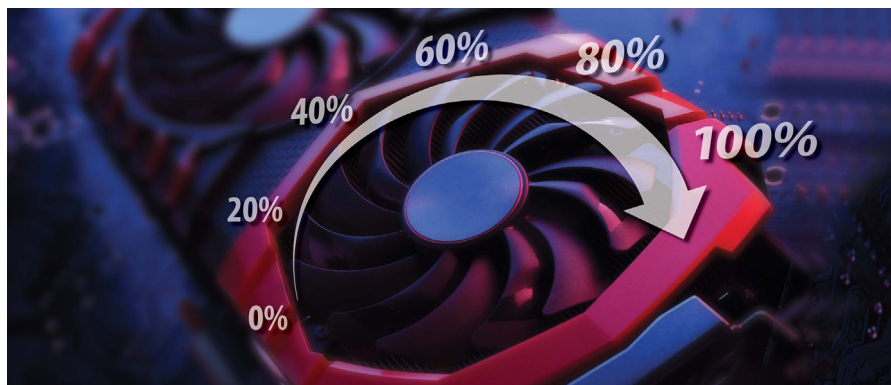
Like an athlete sprinting to the finish line, this technology enables the compressor to achieve maximum frequency in just a few short seconds upon start up, providing you immediate and powerful cooling/heating.



- 6s** The compressor achieves maximum frequency of 65Hz within 6 seconds upon start up.
- 23°C** Heating mode: Air-outlet temperature reaching above 34.5°C within 60 seconds.
- 34.5°C** Cooling mode: Air-outlet temperature can reach 23°C within 40 seconds.

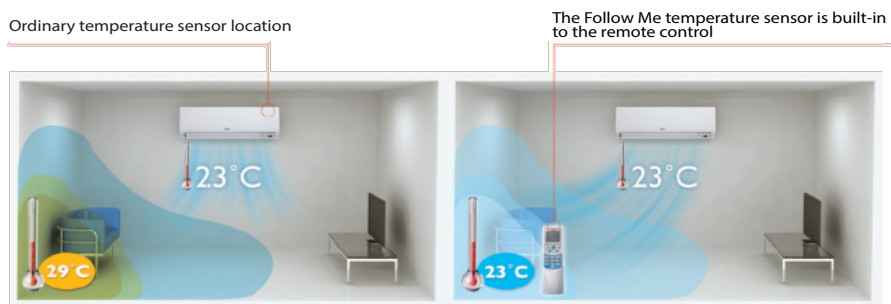
Variable Fan Speeds

By using your remote control, you can adjust the fan speed from zero to 100% enjoying a more comfortable experience through the use of a virtually continuous and seamless fan motor.



Follow Me

The remote controller has a special sensor built into it, and so it knows your desired temperature, wherever you take it in the air-conditioned room. So, if you are sitting on the couch relaxing, and move to another part of the room the set temperature will follow you.



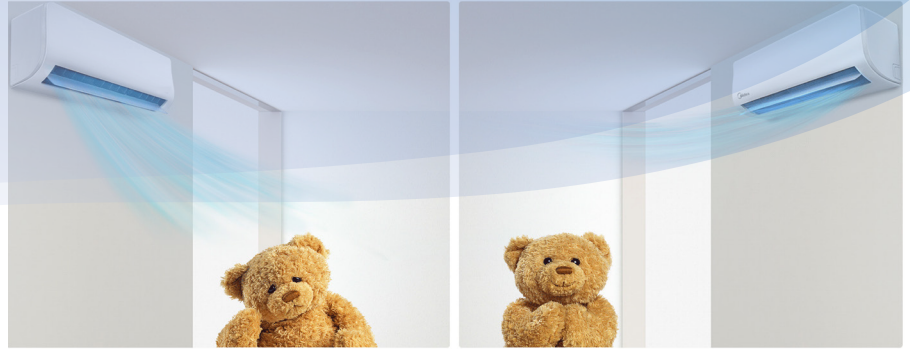
Active Clean

Active Clean Technology washes away dust, mould, and grease that may cling to the indoor unit heat exchanger by automatically producing more condensate water then freezing it, then thawing and airing it dry. It's a robust process taking 20-45 minutes – now that's clean!



Wind Avoid Me

Avoid the air blowing directly on you by using the remote to rapidly and easily adjust the airflow direction.



Active Energy Control

Active Energy Control offers three operating power options: 50%, 75%, and 100%. You can choose the power level to suit your energy needs.



Intelligent Comfort*

Long-distance air flow up to 12 meters on the larger models includes the 3D air flow function, which circulates the air around the room swiftly and calmly to those hard to reach places.

*Available on 5.0 to 8.0kW models only.



Sleep Mode

In cooling or heating mode the system will regulate the air around you throughout the night automatically adjusting the temperature and fan speeds to suit the set mode, without you even noticing. In the heating mode in case the outside temperature drops suddenly the unit increases the temperature without blowing cold air. After 8 hours the system turns night mode off and returns to normal operation.



Leak Detection

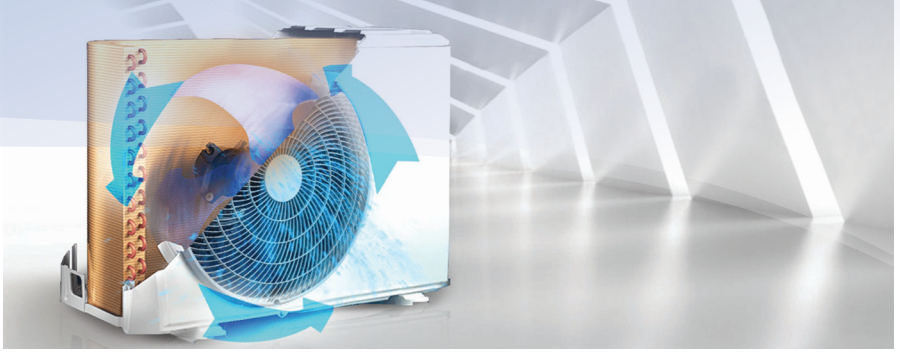
The Fern Series has a number of functions designed to keep you safe and identify a system glitch, and in the unlikely case of a refrigerant leak, the system will automatically stop and display the error code on the indoor unit your controller and the APP.





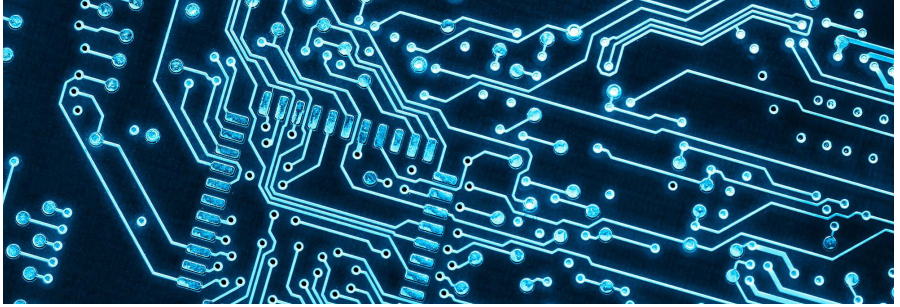
Clever Outdoor Unit

The outdoor fan motor will rotate in reverse once the unit stops, assisting in the removal of dust, dirt and other particles which may be present outside, helping to keep the outdoor unit clean and running effectively and efficiently.



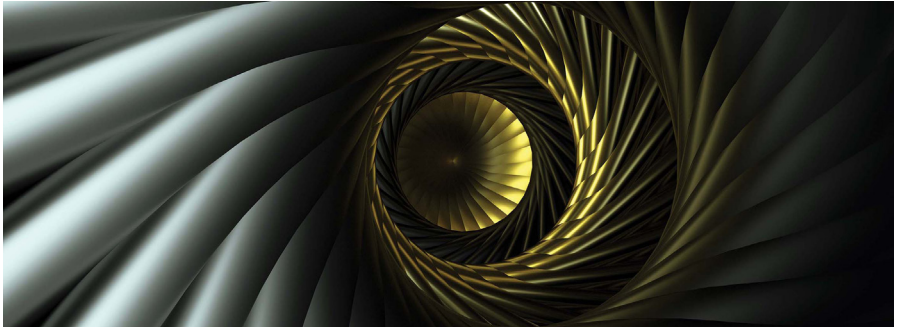
Voltage Stability

Increased reliability and protection via the upgraded main PCB (Power Circuit Board) improves stability with its ability to tolerate voltage fluctuations from as low as 150V and up to 260V.



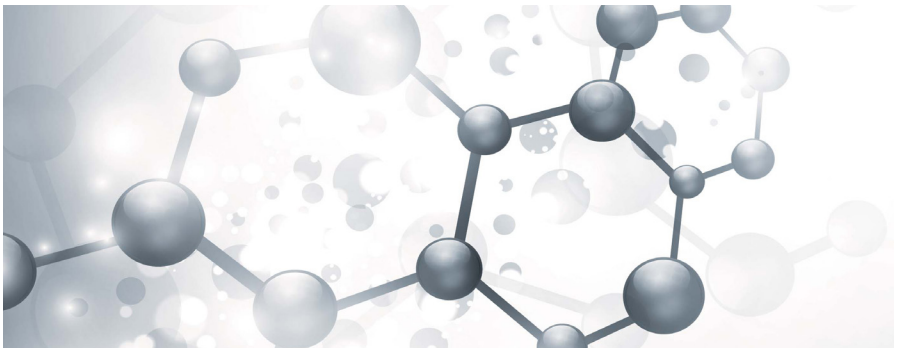
“Micro fin” Tube

By using the micro fin tube the number of grooves inside the heat exchanger is increased and permits greater heat transfer area, improving the Fern Series efficiency particularly in cooling mode. This is one of the secrets behind its high energy star rating.



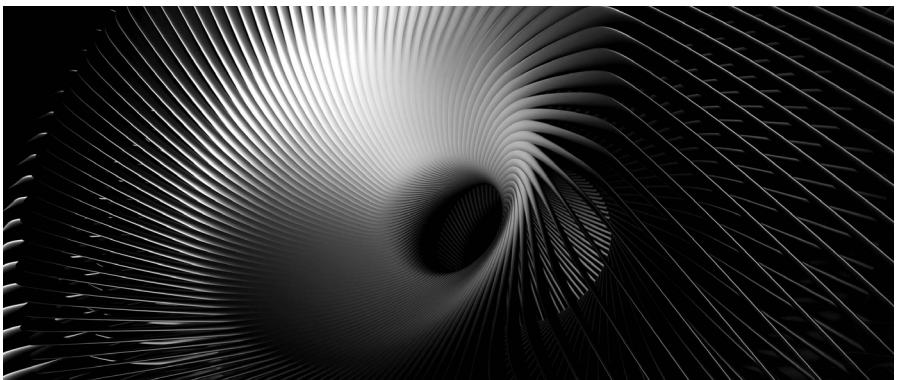
Fire-resistant Electronics

Safety is a key ingredient for Carrier so the electric control box uses tough ABS material built to the 5VA flame retardant rating, and the outer surface is encased with sheet metal to keep the electric control box isolated and fire-resistant.



Fan Blade Design

Outdoor unit fan design optimisation is one of the factors of improved energy efficiency, it does so by delivering the necessary air volume for optimum product performance and reduced sound levels that shouldn't disturb you or your neighbours.






Capacity Guide*

*All figures are indicative only. Unit m2 coverage may vary depending on location, type of home insulation and window sizes. Final Unit selection to be carried out by a qualified Installer.

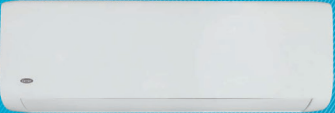

Great for the Study or Home Office

INDOOR MODEL	OUTDOOR MODEL	ZONE	SIZING	COOLING STARS	HEATING STARS
42QHG020N8 	38QHG020N8 	COLD	15-18M ²	5.0 ★★★★★	2.5 ★★★

Kids or Guest Room

INDOOR MODEL	OUTDOOR MODEL	ZONE	SIZING	COOLING STARS	HEATING STARS
42QHG026N8 	38QHG026N8 	COLD	18-22M ²	6.5 ★★★★★★	3.0 ★★★

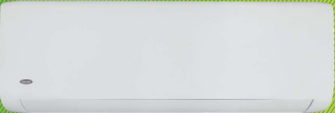

Master Suite

INDOOR MODEL	OUTDOOR MODEL	ZONE	SIZING	COOLING STARS	HEATING STARS
42QHG035N8 	38QHG035N8 	COLD	18-29M ²	5.0 ★★★★★	2.5 ★★★

Ideal for Sitting Room or Home Theatre

INDOOR MODEL	OUTDOOR MODEL	ZONE	SIZING	COOLING STARS	HEATING STARS
42QHG050N8 	38QHG050N8 	COLD	33-40M ²	4.0 ★★★★★	2.0 ★★

Family Rumpus Room

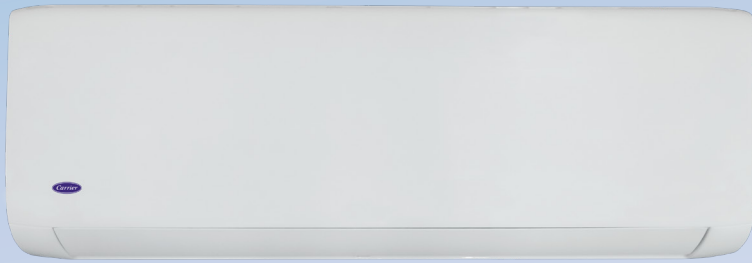
INDOOR MODEL	OUTDOOR MODEL	ZONE	SIZING	COOLING STARS	HEATING STARS
42QHG060N8 	38QHG060N8 	COLD	40-47M ²	4.0 ★★★★★	1.5 ★★

Dining or Entertaining Room

INDOOR MODEL	OUTDOOR MODEL	ZONE	SIZING	COOLING STARS	HEATING STARS
42QHG070N8 	38QHG070N8 	COLD	48-58M ²	3.5 ★★★★★	1.5 ★★

Multi Purpose Space

INDOOR MODEL	OUTDOOR MODEL	ZONE	SIZING	COOLING STARS	HEATING STARS
42QHG080N8 	38QHG080N8 	COLD	54-63M ²	3.5 ★★★★★	1.5 ★★



Product Specifications

SYSTEM		53QHG020	53QHG026	53QHG035	53QHG050	53QHG060	53QHG070	53QHG080	
INDOOR		42QHG020N8	42QHG026N8	42QHG035N8	42QHG050N8	42QHG060N8	42QHG070N8	42QHG080N8	
OUTDOOR		38QHG020N8	38QHG026N8	38QHG035N8	38QHG050N8	38QHG060N8	38QHG070N8	38QHG080N8	
Refrigerant Type		R32							
Power Supply (Volts-Phase-Hz)		220-240V, 1 Ph, 50Hz							
COOLING	Capacity - Rated (Range)	kW	2.00 (0.74~3.43)	2.65 (0.98~3.90)	3.50 (1.00~3.79)	5.00 (2.35~5.83)	6.00 (2.76~6.00)	7.00 (3.30~7.80)	8.00 (3.69~8.00)
	Power Input - Rated (Range)	kW	0.43 (0.16~1.06)	0.53(0.18~1.05)	0.79 (0.18~1.03)	1.36 (0.48~1.88)	1.77 (0.58~1.88)	2.01 (0.71~2.55)	2.35 (0.78~2.55)
	Efficiency - Rated	EER	4.42	4.98	4.42	3.67	3.39	3.48	3.40
	Rated Current	A	2.01	2.45	3.50	6.00	7.90	8.97	10.50
HEATING	Capacity - Rated (Range)	kW	2.20 (0.86 ~4.36)	2.75 (1.02~4.21)	3.75 (1.06~4.55)	5.35 (2.41 ~6.03)	6.20 (2.41~6.40)	7.60 (2.09~8.20)	8.30 (2.08 ~8.30)
	Power Input - Rated (Range)	kW	0.46 (0.16 ~1.29)	0.53 (0.16 ~1.49)	0.83 (0.17 ~1.45)	1.46 (0.46 ~2.00)	1.82 (0.46 ~2.00)	2.04 (0.41~ 2.73)	2.44 (0.41 ~2.73)
	Efficiency - Rated	COP	4.75	5.16	4.50	3.66	3.40	3.73	3.40
	Rated Current	A	2.12	2.31	3.68	6.52	8.20	9.11	10.90
INDOOR UNIT	Dimension (H x W x D)	mm	292 x 729 x 200	295 x 802 x 200		321x 971 x 228		337x 1082x 228	
	Net Weight	kg	8.0	8.50		11.2		13.3	
	Airflow (H/M/L)	m ³ /hr	460/340/270	500/360/300	530/380/310	800/600/500		1090/770/610	
	Moisture Removal	L/hr	0.48	0.50	0.87	1.73	2.47	2.24	2.92
	Sound Pressure (H/M/L/Silent)	dBA	38/31.5/30/20	37/31/29/24	39/32.5/30/24.5	44.5/38/34.5/28		45/39/33.5/29.5	45/39/33.5/29.5
OUT-DOOR UNIT	Dimension (H x W x D)	mm	555 x 765 x 303	554 x 805 x 330		673x 890 x 342			
	Net Weight	kg	26.5	32.2		37.9		43.3	
	Compressor Type		Rotary						
	Fan Motor Output	W	34		80				
	Sound Pressure	dBA	55.5	54	55.5	59.5		61	
	Cooling Usable Temperature Range	°C	0 to 50						
	Heating Usable Temperature Range	°C	-15 to 24						
PIPE SIZE	Liquid Line Ø	inch	1/4					3/8	
	Gas Line Ø	inch	3/8			1/2		5/8	
	Minimum Length	m	3					50	
	Maximum Length	m	25			30		50	
	Chargeless Length	m	5					25	
	Maximum Difference in Level	m	10			20		25	



Notice: AHI Carrier 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.

Note: All images provided in this catalogue are used for illustration purposes only.

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Equipment rated in accordance with MEPS GEMS2019



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