

# SPECIFICATIONS

# AMBI FABRIC



M1024530 M1024540 M1024550 M1024560 M1024570 M1024580 M1024590

Model Number - System		53QCE020-F	53QCE026-F	53QCE035-F	53QCE050-F	53QCE060-F	53QCE070-F	53QCE080-F	
- Indoor		42QCE020N8F	42QCE026N8F	42QCE035N8F	42QCE050N8F	42QCE060N8F	42QCE070N8F	42QCE080N8F	
- Outdoor		38QCE020N8	38QCE026N8	38QCE035N8	38QCE050N8	38QCE060N8	38QCE070N8	38QCE080N8	
Refrigerant Type		R32							
Refrigerant amount	gm	620	850		1260		1400		
Power Supply	Volts-Phase-Hz	220-240v 1ph,50Hz							
COOLING	Capacity - Rated	kW	2.15	2.53	3.5	5.2	6.10	7.00	7.95
	Capacity - Range (Min / Max)	kW	0.86/3.75	0.86/3.75	1.06/4.19	1.97/6.4	1.97/6.40	2.7/8.23	2.70/8.23
	Power Input - Rated	kW	0.444	0.546	0.845	1.349	1.782	1.971	2.325
	Power Input - Range	kW	0.151/1.145	0.151/1.145	2.07/1.175	0.48/2.00	0.58/1.88	0.625/2.684	0.625/2.684
	Seasonal Efficiency (Hot / Average / Cold)	Star Rating	6.0 / 5.0 / 5.5	5.5 / 5 / 5.5	5/4.5 / 5	4.5/4/4.5	4 / 4 / 4	3.5 / 3.5 / 4	3.5 / 3.5 / 4
	Operating Current	A	2.25	2.47	3.75	5.98	7.90	9.0	10.50
HEATING	Capacity - Rated	kW	2.45	2.91	4.0	5.59	6.20	7.70	8.70
	Capacity - Range (Min / Max)	kW	1.1/4.1	1.1/4.1	1.26/4.39	2.42/6.59	2.41/6.40	2.7/8.94	2.7/8.94
	Power Input - Rated	kW	0.455	0.580	0.936	1.46	1.82	1.983	2.395
	Power Input - Range	kW	0.187/1.120	0.187/1.120	0.22/1.75	0.46/2.00	0.46/2.91	0.536/3.040	0.534/3.040
	Seasonal Efficiency (Hot / Average / Cold)	Star Rating	3.5/3.5/3	4 / 3.5 / 3	4 / 3 / 2.5	3 / 2.5 / 2	3 / 2.5 / 1.5	3 / 2.5 / 2	3 / 2.5 / 2
	Operating Current	A	2.2	2.63	4.15	6.52	8.20	8.9	10.70
INDOOR UNIT	Dimension (W-D-H)	mm	813x201x289	813x201x289		975x218x308		1055x231x330	
	Net Weight	kg	8.0	8.0	8.2	10.7		13.0	
	Airflow (Hi/Mi/Lo/Silence)	l/s	153/111/86/43	153/111/86/43	166/125/102/61	255/183/150/88		288/244/198/113	
	Moisture Removal	L/hr	0.48	0.50	0.87	1.73	2.47	2.24	2.94
	Sound Pressure (Hi/Mi/Lo) - 1m	dB(A) (@spl)	38/31.5/30	37/31/29	39/32.5/30	44.5/38/34.5		50/42/36.5	
OUTDOOR UNIT	Dimension (W-D-H)	mm	765x303x555	765x303x555		890x342x673			
	Net Weight	kg	24.7	25.8		38.6		43.8	
	Inverter Compressor	Rotary	SINGLE						
	Fan Motor Output	W		34			80		
	Cooling - (Sound Pressure) (H) at 1m distance	dB(A) (@spl)	54	54	55.5		58.5		61
	Cooling Sound Power (H)	dB(A)	67.1	66.4	69.1		66.9		65
	Cooling Usable Temperature Range	Celsius	16~30						
	Heating Usable Temperature Range	Celsius	-15~24						
PIPE SIZE	Liquid Line O/Gas Line O	mm	6.35 / 9.52	PC1438		6.35 / 12.7	PC1412	6.35 / 15.9	PC1458
	Coupler Style		Flare Joint						
	Minimum Length	m	3						
	Maximum Length	m	25		30		50		
	Pre-Charge Length	m	15						
	Maximum Height Difference (Above/Below)	m	10		20		25		

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Carrier

RESIDENTIAL AIR CONDITIONER

2026



# Air with Care

The heatpump with the only 10year warranty



Residential Warranty

# AMBI

XPOWER CORROSION protection



**10 YEARS WARRANTY**  
Residential Warranty

Introducing  
**AMBI**

**Always Saving**

ECO PLUS: save power + comfort

**Always Quite**

Ultimate silence: down to 18dB\*

**Always Healthy**

Dual effect sterilization

**Always Connected**

Multi-controllers and power usage monitor

**Always Room for AMBI**

Space-efficient and easy installation

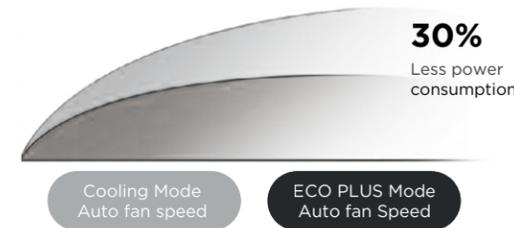
\*Test : 18K model in cooling mode with quiet condition.

**A Master Of Energy Saving and Comfort**

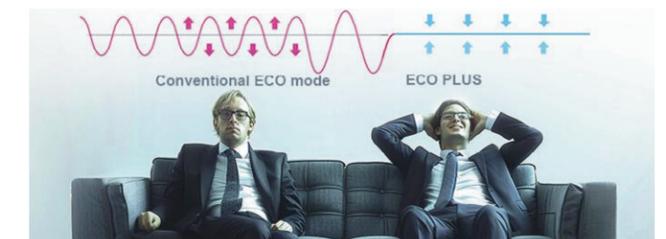
The innovative ECO PLUS technology of the inverter compressor is designed to save energy while providing optimal comfort. Utilizing an AI algorithm, AMBI enhances signal reception, processes data accurately, and delivers timely instructions to the compressor, effectively minimizing energy loss. Acting as "the mastermind," AMBI offers five optional modes that reduce energy consumption, save money, and maintain robust performance.

**Energy saving**

Power consumption(kW.h)



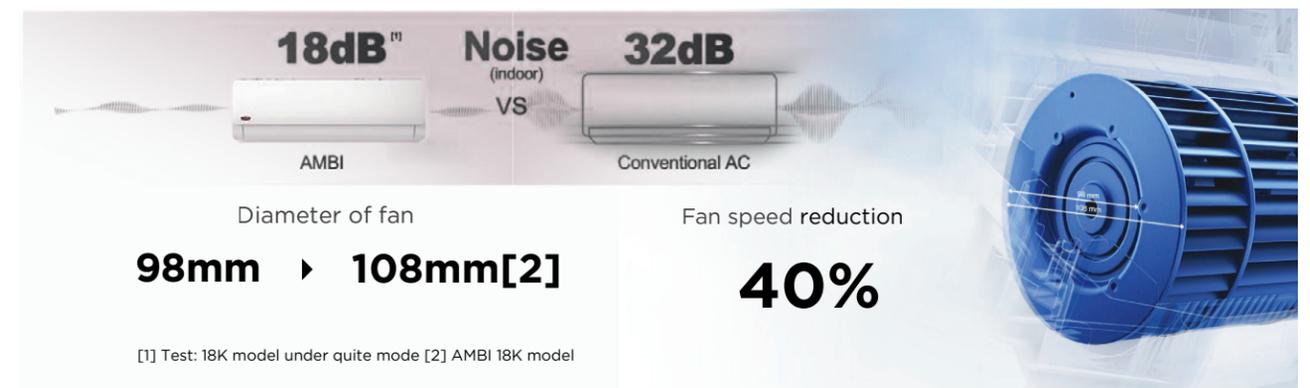
**Comfort**



Within  $\pm 0.3^{\circ}\text{C}$  Stable temperature to ensure comfort

**A Master Controller Of Noise Providing A Quieter Environment**

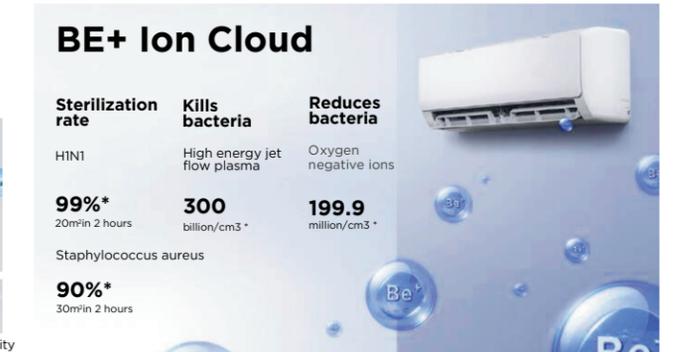
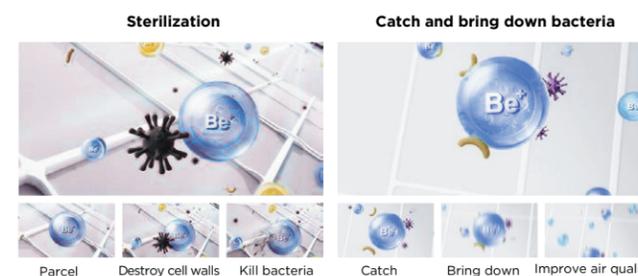
AMBI assures quietness down to 18dB[1], with larger cross-flow fan and new fan motor design.



**Dual Effect Sterilization, A Master-protector Of Health**

AMBI, equipped with BE+ion cloud technology, releases a high energy jet flow plasma(300 billion/cm<sup>3</sup>\*) to quickly sterilize bacteria, while 199.9 million/cm<sup>3</sup>\* BE+ ions to catch and bring down bacteria, refreshing the air.

**Dual effect sterilization**



• Test by Institute of Plasma Physics, Hefei Institute of Physical Sciences, Chinese Academy of Sciences. Test report NO. is 20221212-1.  
• Test by National Center of Quality Inspection and Testing on Air Purification Products of Guangzhou Institute of Microbiology Co., Ltd. Test report NO. is KJ20222311.  
• The Patent Numbers: 20221193117.7, 202211193132.1, and 202211065958.X.  
• The actual effect may vary according to different environments and conditions of usage.

# Always stay connected with AMBI

### Multi-controllers

AMBI connects with 6 different controllers

### Monitor Power Usage

Users can monitor electricity consumption on Carrier App, in real-time, daily, weekly or monthly.

## Bluetooth® Controller

A detachable, wall-mounted Bluetooth remote

### No Built-in Wiring Required

Adaptable to all housing situations of customers from different regions



### 2.9-inch LCD Screen

Broad and bright, with white backlight display

# A Master Planner Of Space

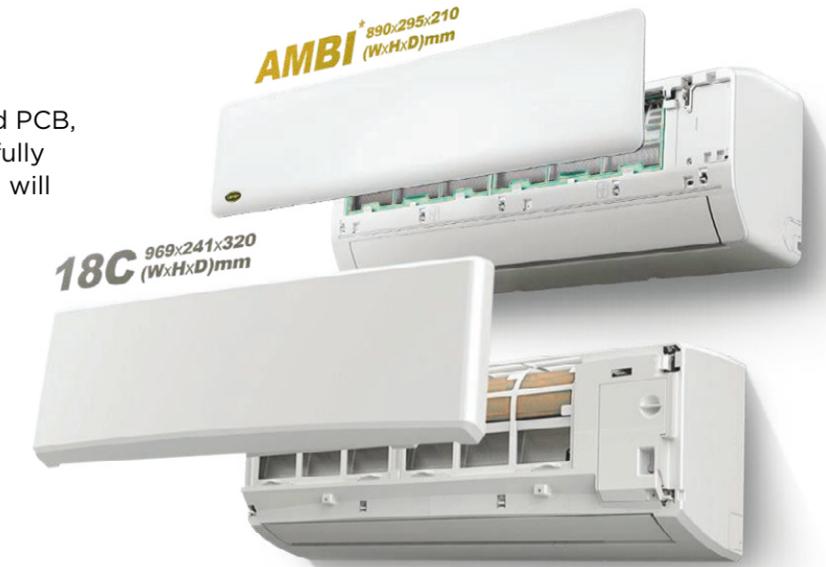
## Smaller But Stronger

With a slimmer rotor, ultra-integrated PCB, and curvy evaporator, AMBI successfully shrank its size down by 26.2%, which will provide more advantages for its transportation and warehousing.

Super space-efficient  
Overall size down by

# 26.2%

\*AMBI 18K model



### New Outer Motor Design

Inner motor	Outer motor
<b>80mm</b>	<b>50mm</b>
Reduced axial size	<b>-51%</b>
Reduced weight	<b>-30%</b>

### Ultra-integrated PCB

Conventional PCB	Ultra-integrated PCB
182mm	<b>125mm</b>
Reduced area	<b>-30%</b>

### Innovative Evaporator Design

Conventional design	Curvy evaporator
165mm	<b>135mm</b>

# Flexible Installation & Easy Maintenance

## 30mm to ceiling, a small step for AMBI, but a great step for AC

The evolved high-energy efficiency sloping design of AMBI, different from traditional top air vent design, creates more possibilities for installation.

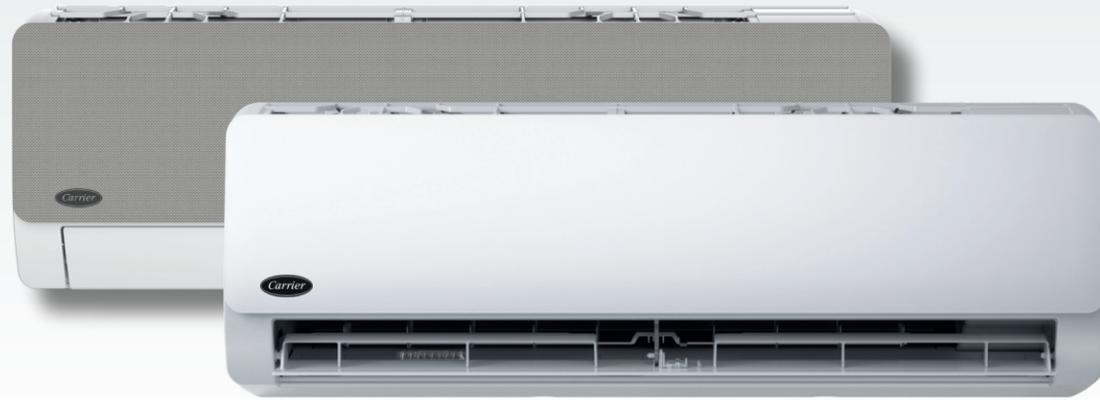


### Easy installation: unique groove design

A unique groove design offers great convenience when mounting the power cord to AC, which makes the installer's job easier, improving the installation and maintenance efficiency.



# AMBI-ance



## Two new looks

The Ambi and the Ambi Fabric represents new look for heating and airconditioning in New Zealand. With an emphasis on both style and functionality, these models are designed to meet the evolving needs of modern homes and businesses. The Ambi Fabric introduces a sleek and contemporary aesthetic, blending seamlessly into any interior with its refined textures and color. Meanwhile, the Ambi offers state-of-the-art features that ensure optimal performance and energy efficiency, making it a reliable choice for maintaining comfort throughout the year. Whether you're battling the chill of winter or the heat of summer, these units promise to deliver consistent, high-quality climate control, all while enhancing the ambiance of your space.

## Extra treatment

The AMBI comes with enhanced protective features. In addition to the Gold Fin treatment, the coil ends are treated for corrosion resistance. This Xpower corrosion protection ensures the AMBI is ready for server room environments. The indoor coil's Gold Fin treatment is more resistant to water rust, grease adhesion, oxidation, and other corrosive elements compared to standard blue fins. This improvement allows for more consistent cooling performance over an extended period.

Golden fin Protection



## Features

- 8°C Heating
- Flash Cooling
- iECO Mode
- High Density Filter
- Cold Catalyst Filter
- Wide Angle Airflow
- 1-100% FanSpeed Control
- ThermoStatic Technology
- Arctic Fox Remote
- Remote Control App
- Do Not Disturb
- Low Noise
- Air Magic Ionizer
- I-Clean
- Long Distance Windblast



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	Minimum Length	m	3						
	Maximum Length	m	25		30		50		
	Pre-Charge Length	m	15						
Maximum Height Difference (Above/Below)	m	10		20		25			

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

Product specifications in this brochure are only indicative and are subject to change. They are not intended to be used in place of the engineering or installation book.

All features and specifications are subject to change without prior notice.

All images provided in this catalogue are used for illustration purposes only. Cooling and heating capacities mentioned for the products are nominal capacities at standard operating conditions.

Equipment rates are in accordance with MEPS GEMS 2019 Determination.

