



Residential Air Conditioners

Wall Mounted

- Fixed Speed R32
- Fixed Speed R410A
- Inverter R410A



Manufacturer reserves the right to discontinue, or change at any time, specifications or designs without notice or without incurring obligations.

For more details, please visit our website: www.carrier.com/commercial/en/my
or write to us at: cmb.sales@carrier.com,

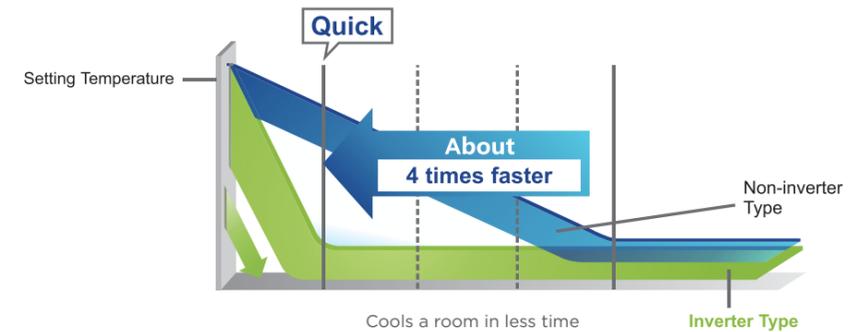
AF Series 2020 Rev 1



More Powerful

Power Capacity, Quick Cooling

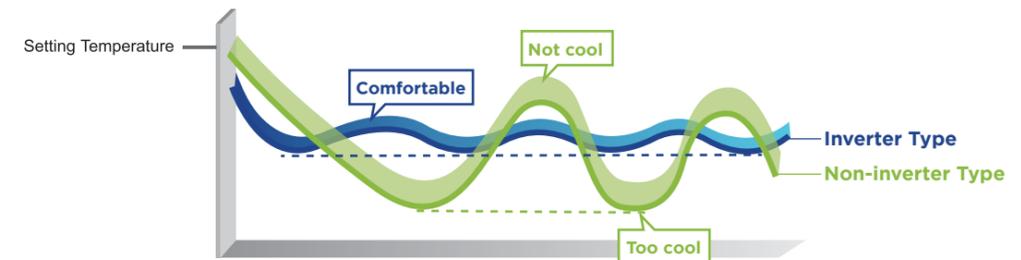
The compressor of Carrier inverter air conditioner operates faster to give more powerful performance. This results in achieving your desired set temperature much faster than conventional air conditioner.



More Comfortable

Precise Control, Constant Temperature

After reaching the set temperature, Carrier inverter air conditioner closely maintains room temperature through fine adjustment of output power, creating pleasant and comfortable environment compared to conventional air conditioners that cycles between on and off resulting in temperature swing.



More Reliable

Wider Operation Range

The Carrier inverter air conditioner works uninterruptedly between 168V to 264V even at high ambient temperature of up to 46 degree Celsius, keeping you cool always.



In 1902, a determined engineer answered one of mankind's most nagging questions: How do we make hot, sticky, indoor air go away? In creating the world's first modern air conditioning system, Willis Carrier forever changed indoor life, and, more than a century later, the corporation that bears his name takes inspiration from his example.

Carrier continues to improve on our founder's breakthroughs, introducing new technologies that make life at home even cooler. Today, our nationwide network of experts continues to advance Willis Carrier's lifework. Your expert Carrier® dealer is equipped to evaluate your home and create a customized system designed around your lifestyle.

Design for Indoor Air Quality

Dual Purification System

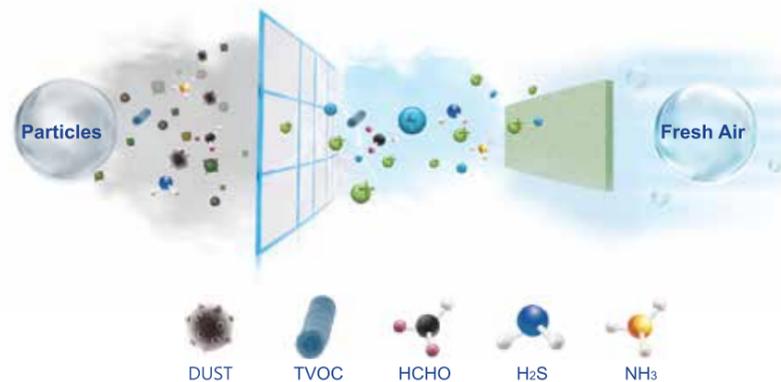
The dual action filter removes harmful pollutants and gases, giving clean and refreshing air every moment in your daily life.

First Guard

As the first guard, the washable High Density Filter traps dust and harmful particles from the air. With enhanced capacity, smaller dust particles are more effectively removed compared to ordinary filter.

Second Guard

As the second guard, the Cold Catalyst Filter cleanses the air by removing harmful gases and odors, like Total Volatile Organic Compounds, formaldehyde, hydrogen sulfide and ammonia. It is effective over long lifetime, an ideal solution for your home.



Washable High Density Filter

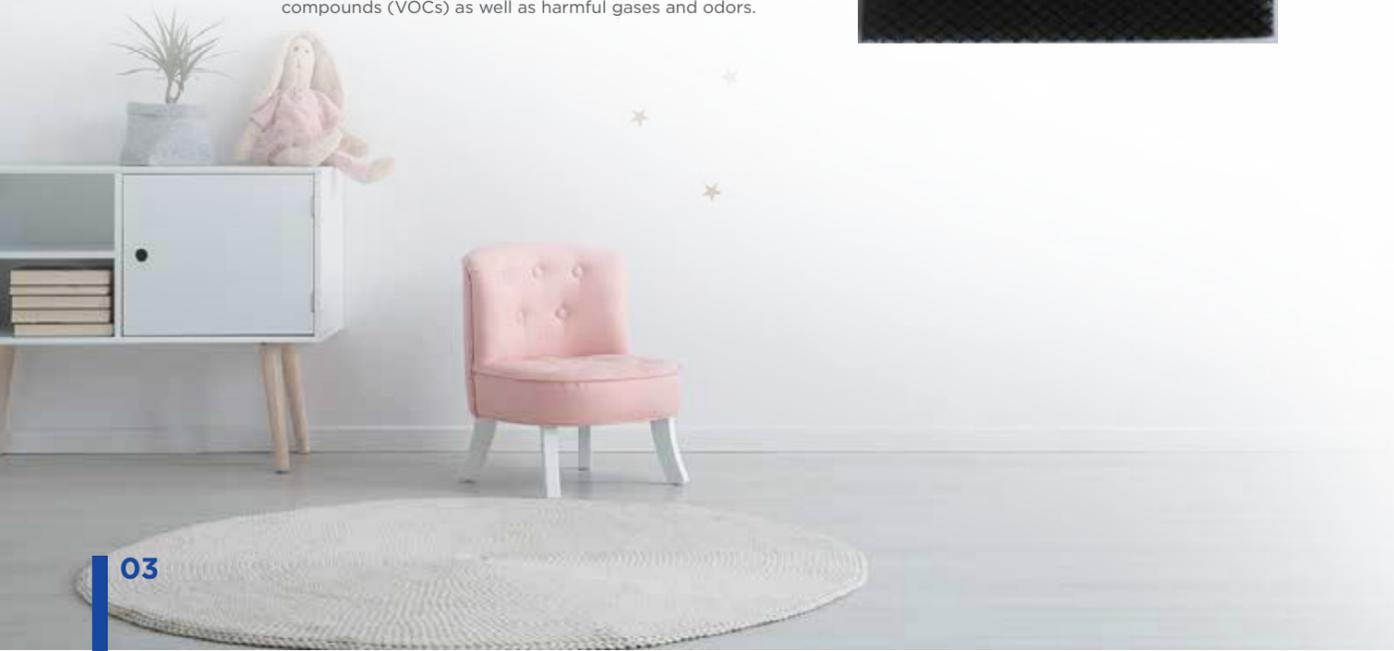
Enhanced filter capacity, remove the micro dust from the air.

Filter Type	"Ordinary"	"HD"
Quantity of Holes per m ²	156	255
Hole Size (mm)	1.2x1.2	0.54x0.54



Cold Catalyst Filter

Eliminate formaldehyde and other volatile organic compounds (VOCs) as well as harmful gases and odors.

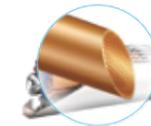
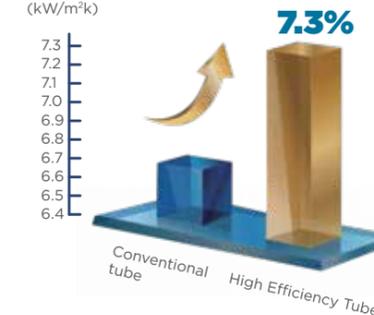


Design for Performance

High Efficiency Tube

Heat transfer efficiency increases by 7.3% with larger surface area for heat transfer due to increased number of inner groove teeth from 45 to 54, improving overall efficiency of Carrier air conditioner.

Total heat transfer Coefficient (kW/m²k)



Gold Fin for Indoor Unit and Outdoor Unit

The special coating has been tested to exhibit excellent anti-corrosive performance compared to common coated fin, which leads to higher efficiency over longer lifetime.

Longer Lifetime



Common Fin

Gold Fin

Common Fin

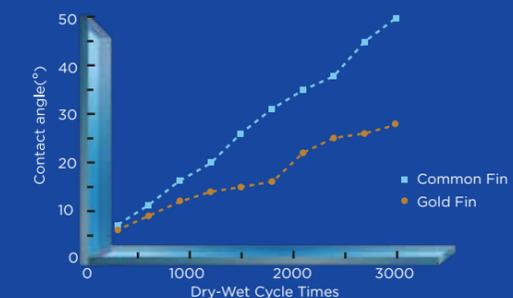
Gold Fin

Test 1: Neutral Salt Spray Test for 1000 Hours. (Equivalent to more than 10 years of service life under normal conditions). Protection level > 9.5, without perforation.

Test 2: Acid Resistance Test for 30 Minutes (Equivalent to 10,000 times accelerated acid rain test). Corrosion area < 0.5%.

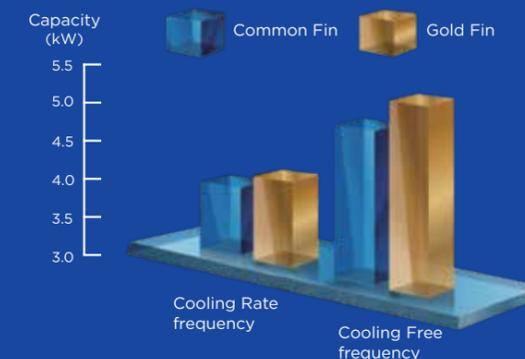
Unique Anti-corrosive

Test 3: Dry-Wet Cycle Test 3000 Times (Equivalent to air conditioner operating for 10 years). Hydrophilic angle < 30°, showing good hydrophilicity.



High Efficiency

Testing has shown that the special coating outperforms the common coated fin even after one year into operation.



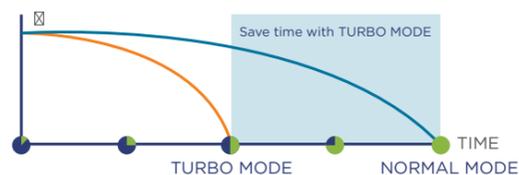
Design for Convenience

Design for Easy Installation and Maintenance



Turbo Mode

The air conditioner maximizes capacity to cool down rapidly, reaching the set temperature in the shortest possible time.



My Mode

You can now enjoy cooling at your preferred operating mode via a single button. Simply save your favourite settings as My Mode on the remote controller.



Sleep Mode

The function enables the air conditioner to automatically increase the set temperature by 1 degree Celsius per hour for the first two hours, then maintain the set temperature for the next six hours before continuing operation in the final settings. This function achieves both energy savings and comfort sleeping.

Sleep mode: 8 hours



Follow Me

Detects the room temperature through the temperature sensor built into the remote controller, thereby providing comfort cooling.



Without "Follow Me"



With "Follow Me"



2 Way Connection

The refrigerant piping and drainage hose can reach either the left or right side of the indoor unit for maximum installation flexibility.



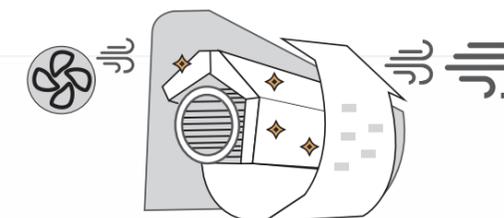
Refrigerant Leakage Detect

Indoor unit shows error code "EC" and stops automatically when refrigerant leakage is detected. This protects the compressor from high temperature damage due to refrigerant leakage.



Self Clean

This function helps reduce mould growth in the air conditioner by operating in low fan mode to dry the coils, so you can enjoy healthy air all year round. Simply press and hold the "High Power" button for more than 2 seconds to activate the Self Clean function, the controller will automatically manage the process.



Technical Specification



Indoor Model		42KHA009N8FS	42KHA012N8FS	42KHA018N8FS	42KHA024N8FS	
Outdoor Model		38KHA009N8FS	38KHA012N8FS	38KHA018N8FS	38KHA024N8FS	
Cooling Capacity		9K	12K	18K	24K	
Power supply	Ph-V-Hz	1Ph- 220-240V- 50Hz	1Ph- 220-240V- 50Hz	1Ph- 220-240V- 50Hz	1Ph- 220-240V- 50Hz	
Source of Power Supply		Indoor	Indoor	Indoor	Indoor	
Rated Performance (cooling)	Nominal Capacity	Btu/h	9000	12000	18000	24000
	Power Input	W	760	1000	1500	2070
	Current	A	3.4	4.6	6.9	9.5
	EER	W/W	3.47	3.52	3.52	3.40
	CSPF	Wh/Wh	3.69	3.74	3.74	3.61
Indoor unit	Dimension(WxDxH)	mm	805x194x285	805x194x285	957x213X302	1040X220X327
	Packaging dimension (WxDxH)	mm	870x270x360	870x270x360	1020X280X365	1120X405X315
	Net/Gross weight	kg	8.3/10.6	8.4/10.7	11.0/14.0	13.5/16.9
Outdoor unit	Dimension(WxDxH)	mm	681x285x434	770x300x555	770x300x555	946x410x810
	Packaging dimension (WxDxH)	mm	780x330x480	900x348x615	900x348x615	1090x500x885
	Net/Gross weight	kg	24.0/26.0	28.2/30.5	37.8/40.5	60.7/66.7
Indoor fan speed (Hi/Mi/Lo)	r/min	1200/950/800	1150/950/800	1180/1000/850	1100/950/800	
Indoor air flow (Hi/Mi/Lo)	m³/h	593/439/348	551/439/348	834/627/504	1070/967/805	
	CFM	350/260/200	325/260/200	490/370/300	630/570/475	
Indoor sound pressure level (Hi/Mi/Lo)	dB(A)	42/34/28	42/35/30	42/36/32	47/45/42	
Outdoor sound pressure level	dB(A)	53	54	57	59	
Refrigerant type/Quantity	Type	R32	R32	R32	R32	
	Charged volume	g	410	450	710	1500
Design pressure	MPa	4.3/1.7	4.3/1.7	4.3/1.7	4.3/1.7	
Refrigerant piping	Liquid side/Gas side	mm (inch)	ø6.35/ø9.52 (1/4"/3/8")	ø6.35/ø12.7 (1/4"/1/2")	ø6.35/ø12.7 (1/4"/1/2")	ø9.52/ø15.9 (3/8"/5/8")
	Max. pipe length	m	20	20	25	25
	Max. difference in level	m	8	8	10	10
Controller		Remote	Remote	Remote	Remote	
Operation temperature	∅	17-30	17-30	17-30	17-30	
Ambient temperature	∅	18-43	18-43	18-43	18-43	
Application area	Outdoor	m²	12-18	15-22	24-35	32-47

Test standard: Performance/Reliability / Sound pressure ISO 5151 Safety :IEC 60335-1; IEC 60335-2-40.

Split System



Fixed Speed R32 Wall Mounted Type

Standard Features



Optional Features



All features and specifications are subject to change without prior notice for product improvement purposes.

Technical Specification



Indoor Model			42KHA009FS	42KHA012FS	42KHA018FS	42KHA024FSA	42KHA027FS	42KHA032FS
Outdoor Model			38KHA009FS	38KHA012FS	38KHA018FS	38KHA024FSA	38KHA027FS	38KHA032FS
Cooling Capacity			9K	12K	18K	24K	27K	32K
Power supply	Ph-V-Hz		1Ph- 220-240V- 50Hz	1Ph- 220-240V- 50Hz	1Ph-220-240V- 50Hz	1Ph- 220-240V- 50Hz	1Ph- 220-240V- 50Hz	1Ph- 220-240V- 50Hz
Source of Power Supply			Indoor	Indoor	Indoor	Indoor	Outdoor	Outdoor
Rated Performance (cooling)	Nominal Capacity	Btu/h	9000	12000	18000	24000	27000	32000
	Power Input	W	810	1060	1700	2510	2420	2960
	Current	A	3.8	5.1	8.1	11.0	11.1	14.0
	EER	W/W	3.26	3.32	3.10	2.80	3.27	3.17
	CSPF	Wh/Wh	3.46	3.52	3.30	2.98	3.47	3.36
Indoor unit	Dimension(WxDxH)	mm	805x194x285	805x194x285	1040x220x327	1040x220x327	1260x283x362	1260x283x362
	Packing dimension (WxDxH)	mm	870x270x365	870x270x365	1120x310x405	1120x310x405	1340x450x385	1340x450x385
	Net/Gross weight	kg	8.2/10.5	8.1/10.5	13.6/16.2	13.6/17.0	21.7/25.7	19.6/25.6
Outdoor unit	Dimension(WxDxH)	mm	700x275x550	770x300x555	770x300x555	845x363x702	946x420x810	946x420x810
	Packing dimension (WxDxH)	mm	815x325x625	900x348x625	900x348x625	965x395x765	1090x500x875	1090x500x875
	Net/Gross weight	kg	25.2/27.5	29.6/32.6	34.0/37.0	47.3/50.8	61.5/67.3	64.7/69.4
Indoor fan speed (Hi/Mi/Lo)	r/min		1150/950/800	1150/950/800	1100/1000/900	1200/1100/950	1180/1080/900	1230/1080/980
Indoor air flow (Hi/Mi/Lo)	m³/h		590/460/360	590/480/360	940/840/730	1010/910/760	1400/1300/1000	1320/1130/1010
	CFM		350/270/210	350/280/210	550/495/430	595/535/450	825/765/590	725/665/595
Indoor sound pressure level (Hi/Mi/Lo)	dB(A)		40/35/30	40/35/30	43/40/38	47/45/39	50/47/42	51/47/44
Outdoor sound pressure level	dB(A)		52	55	57	57	58	58
Refrigerant type/Quantity	Type		R410A	R410A	R410A	R410A	R410A	R410A
	Charged volume	g	610	800	960	1050	1900	2200
Design pressure	MPa		4.2/1.5	4.2/1.5	4.2/1.5	4.2/1.5	4.8/1.5	4.8/1.5
Refrigerant piping	Liquid side/Gas side	mm (inch)	Φ6.35/Φ9.52 (1/4"/3/8")	Φ6.35/Φ12.7 (1/4"/1/2")	Φ6.35/Φ12.7 (1/4"/1/2")	Φ9.52/Φ15.9 (3/8"/5/8")	Φ9.52/Φ15.9 (3/8"/5/8")	Φ9.52/Φ15.9 (3/8"/5/8")
	Max. pipe length	m	20	20	25	25	25	25
	Max. difference in level	m	8	8	10	10	10	10
Controller			Remote	Remote	Remote	Remote	Remote	Remote
Operation temperature	°C		17-30	17-30	17-30	17-30	17-30	17-30
Ambient temperature	Indoor	°C	18-43	18-43	18-43	18-43	18-54	18-54
	Outdoor	°C	18-43	18-43	18-43	18-43	18-54	18-54
Application area	m²		12-18	16-23	24-35	32-47	36-53	43-53

Test standard: Performance/Reliability / Sound pressure ISO 5151 Safety :IEC 60335-1; IEC 60335-2-40.

Split System



Standard Features



Optional Features



All features and specifications are subject to change without prior notice for product improvement purposes.

Technical Specification



Indoor Model		42KHA009VSA	42KHA012VS	42KHA018VS	42KHA022VS	42KHC030VS	
Outdoor Model		38KHA009VSA	38KHA012VS	38KHA018VS	38KHA022VS	38KHC030VS	
Cooling Capacity		9K	12K	18K	22K	30K	
Power supply	Ph-V-Hz	1Ph- 220-240V- 50Hz	1Ph- 220-240V- 50Hz	1Ph- 220-240V- 50Hz	1Ph- 220-240V- 50Hz	1Ph- 220-240V- 50Hz	
Source of Power Supply		Indoor	Indoor	Indoor	Indoor	Outdoor	
Rated Performance (cooling)	Nominal Capacity	Btu/h	9000 (1890-10330)	12000 (6000-12500)	18000 (7000-18000)	22000 (8000-22000)	30000 (9000-30000)
		Power Input	W	820 (210-1070)	1170 (350-1170)	1760 (360-1760)	2050 (400-2050)
	Current	A	3.6	5.1	7.2	8.9	12.2
	EER	W/W	3.22	3.01	3.00	3.15	3.32
	CSPF	Wh/Wh	4.57	4.59	5.02	4.75	/
Indoor unit	Dimension(WxDxH)	mm	715x194x285	805x194x285	957x213x302	1040x220x327	1260x283x362
	Packing dimension (WxDxH)	mm	780x270x365	870x275x360	1035x295x380	1120x405x310	1340x450x380
	Net/Gross weight	kg	7.0/9.0	7.8/9.6	10.5/13.6	13.8/17.3	19.0/26.0
Outdoor unit	Dimension(WxDxH)	mm	700x275x550	700x275x550	770x300x555	845x363x702	946x420x810
	Packing dimension (WxDxH)	mm	815x325x625	815x325x625	900x348x615	965x395x765	1090x500x865
	Net/Gross weight	kg	21.3/23.5	20.5/22.9	27.7/30.1	38.7/42.0	59.0/65.0
Indoor fan speed (Hi/Mi/Lo)	r/min	1100/1000/800	1200/950/800	1130/1000/850	1200/1000/800	1180/950/800	
Indoor air flow (Hi/Mi/Lo)	m³/h	458/406/300	561/412/333	769/638/515	1030/920/760	1200/960/810	
	CFM	270/240/175	330/240/195	450/375/300	610/540/450	710/565/450	
Indoor sound pressure level (Hi/Mi/Lo)	dB(A)	38/35/29	41/35/32	42/38/34	46/42/35	52/46/42	
Outdoor sound pressure level	dB(A)	55	54	55	56	60	
Refrigerant type/Quantity	Type		R410A	R410A	R410A	R410A	
	Charged volume	g	480	550	850	1140	2300
Design pressure	MPa	4.2/1.5	4.2/1.5	4.2/1.5	4.2/1.5	4.2/1.5	
Refrigerant piping	Liquid side/Gas side	mm (inch)	φ6.35/φ9.52 (1/4"/3/8")	φ6.35/φ12.7(1/4"/1/2")	φ6.35/φ12.7(1/4"/1/2")	φ9.52/φ15.9(3/8"/5/8")	φ9.52/φ15.9 (3/8"/5/8")
	Max. pipe length	m	25	25	30	30	40
	Max. difference in level	m	10	10	20	20	20
Controller		Remote	Remote	Remote	Remote	Remote	
Operation temperature	°C	17-30	17-30	17-30	17-30	17-30	
Ambient temperature	°C	0-50	0-50	0-50	0-50	0-50	
Application area	Outdoor	m²	12-18	16-23	23-33	28-41	40-59

Test standard: Performance/Reliability / Sound pressure ISO 5151 Safety :IEC 60335-1; IEC 60335-2-40.

Split System



Standard Features



Optional Features



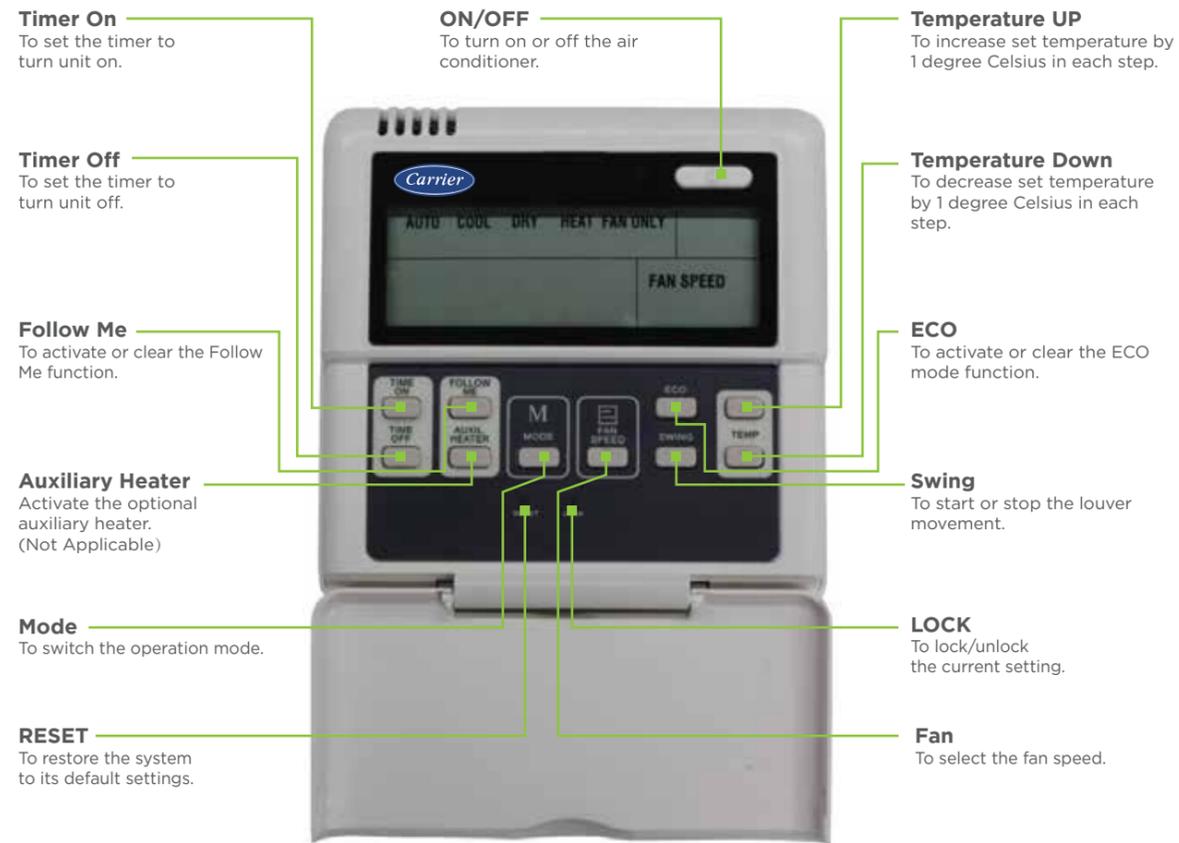
All features and specifications are subject to change without prior notice for product improvement purposes.

Wired Control



12B Simple Controller

The wiring place of 12B is display board.



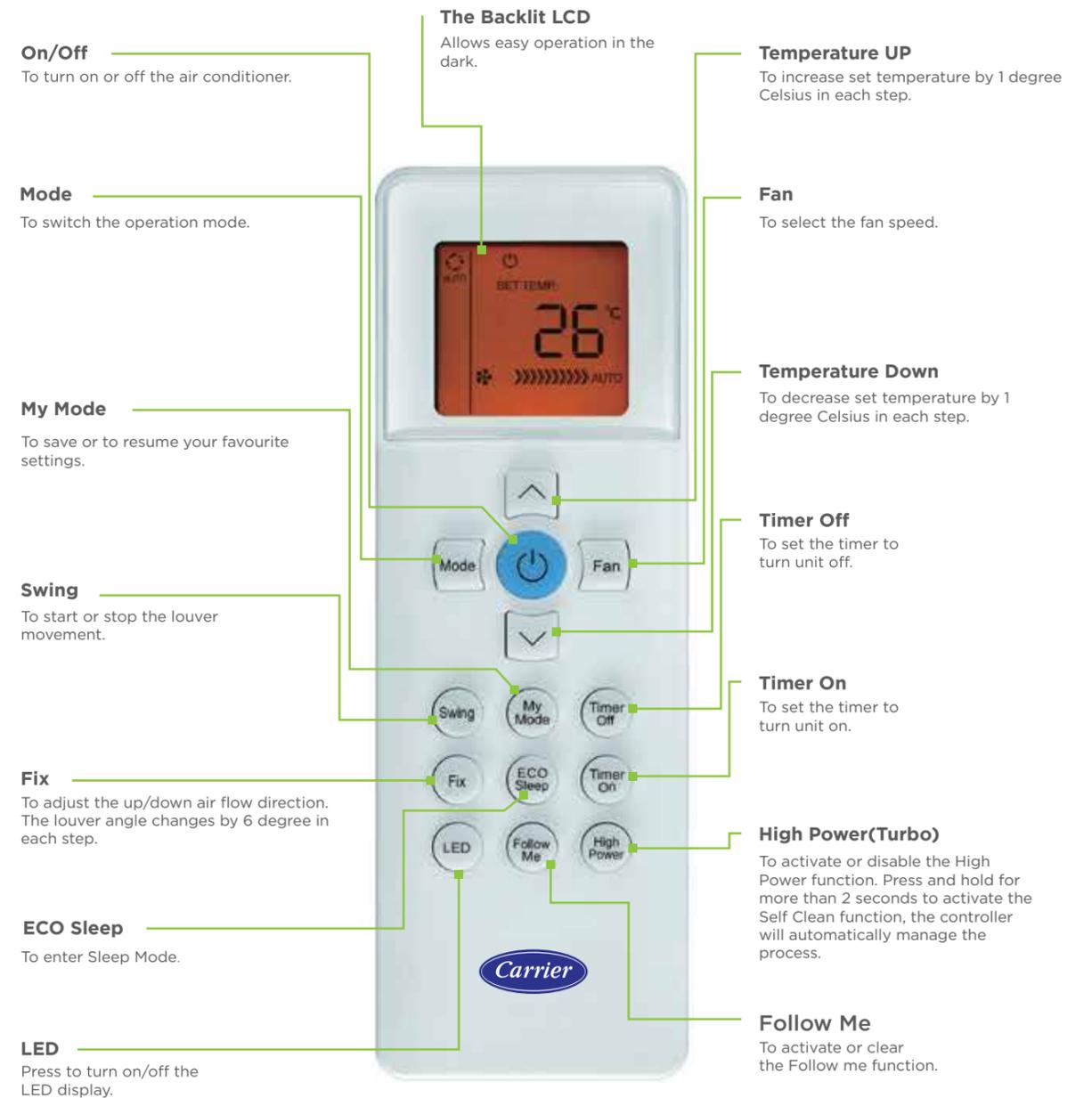
120X2 Deluxe Controller

Sleek design with touch button and backlight, 120X2 Deluxe Controller is packed with more functionalities in addition to basic operations offered by 12B Simple Controller

- Infrared signal receiver.
- Weekly timer
- Restrict the available temperature setting range
- Operation mode locking
- Check temperature details and error codes.
- Child lock
- Follow Me
- Auto Restart

Note:
1. Above illustration shows all the features. For actual model, only the relevant parts are shown.
2. Buttons design might be slightly different from the actual one.

Remote Control



Note:
1. Above illustration shows all the features. For actual model, only the relevant parts are shown.
2. Buttons design might be slightly different from the actual one.