



# LIGHT COMMERCIAL AIR CONDITIONERS

SINGLE SPLIT



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LC 2020 Rev 4

# PRODUCT LINE-UP

Series	Appearance	Type	12000 Btu/h	18000 Btu/h	24000 Btu/h	30000 Btu/h	36000 Btu/h	45000 Btu/h	55000 Btu/h
Compact Cassette		R-410A, Fixed Speed, 50Hz	●	●					
		R-410A, Inverter, 50Hz	●	●					
Super Slim Cassette		R-410A, Fixed Speed, 50Hz			●	●	●	●	●
		R-410A, Inverter, 50Hz			●	●	●	●	●
Under Ceiling		R-410A, Fixed Speed, 50Hz		●	●		●	●	●
		R-410A, Inverter, 50Hz	●	●	●		●	●	●
Concealed Duct		R-410A, Fixed Speed, 50Hz		●	●		●	●	●
		R-410A, Inverter, 50Hz	●	●	●	●	●	●	●
Floor Standing		R-410A Fixed Speed, 50Hz			●		●	●	
Outdoor Unit		R-410A, Fixed Speed, 50Hz	●	●	●	●	●	●	●
		R-410A, Inverter, 50Hz	●	●	●	●	●	●	●

# CASSETTE



## Super Slim and Compact for Versatile Spaces

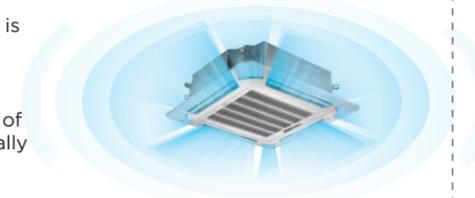
With height as low as 205 mm, the Carrier Cassette is versatile to fit into normal or tight ceiling spaces, at the same freeing up more room for maximum ceiling height and comfort for you. By packing maximum cooling capacity into smallest possible dimension, Carrier Cassette is designed to cool all spaces, big or small.



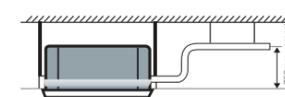
570x570(mm)  
\*Carrier compact type cassette panel size.

## 360° Air Flow

With the 360° Air Flow Panel, air is circulated throughout the whole space, offering optimum temperature distribution. Everyone's comfort is taken care of with each louver can be individually controlled.



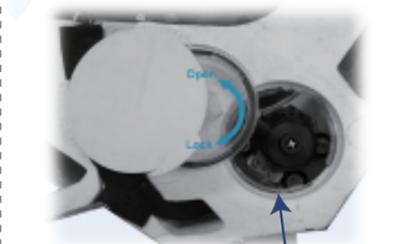
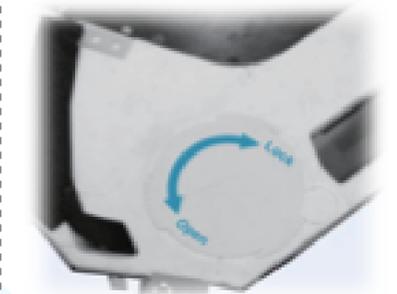
## Build-in Drain Pump



Carrier Cassette air conditioners come with standard inbuilt drain pump for your convenience. It can lift condensing water up to 750mm. The drain pump is now easily accessible with improved new design, enabling hassle free and shorter time during maintenance.

## Easy Maintained Drain Pump

Improved structure makes it more convenient to repair the drain pump.



Drain Pump

# CASSETTE

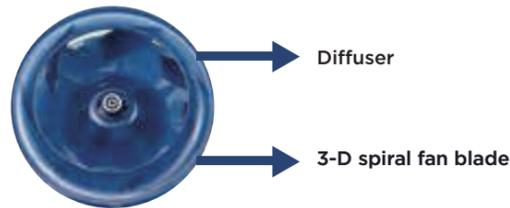
## Wired Control

You can choose to fix wired controller to the wall for a permanent mounted control solution.



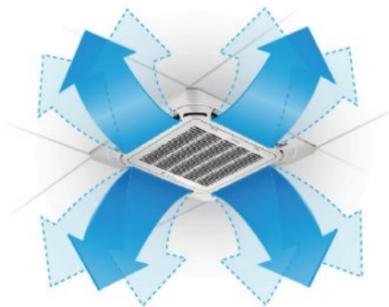
## Quiet Operation

Quiet operation, gentle air supply Streamlined plate ensures quiet operation. Advanced 3-d spiral fan design reduces air resistance and operation noise



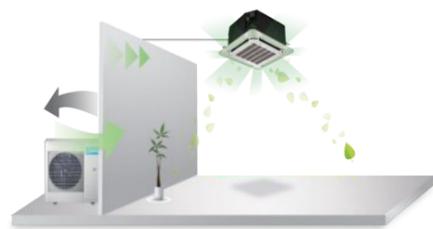
## Louver Position Memory

The horizontal louver automatically sets at the previous position whenever the unit turns on.



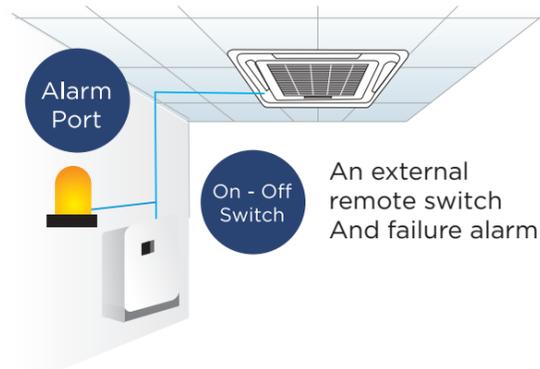
## Fresh Air (Optional)

Introducing outside air improves indoor air quality. Carrier Cassette comes ready with the option of fresh air intake function if needed.



## Remote Control and Alarm Ports (Optional)

Additional reserved ports are available for long distance on-off remote control by connecting to a switch, and providing an alarm signal for external alarm light or vibration gauge.

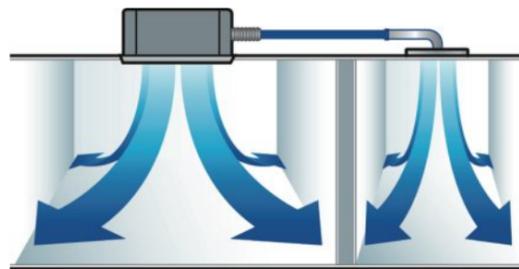


## Auto Restart Function

The system automatically restarts in the previous settings and mode when the power resumes, in the event of shut down due to power supply interruption.

## Air Duct

For spaces with nearby small rooms, air duct can be connected from two sides of the Carrier Cassette.



## Follow Me

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



# TECHNICAL SPECIFICATION

## Fixed Speed Cassette

Indoor model			42QTD012FSA	42KTD018FS	42KTD024FS	42KTD030FS
Outdoor model			38QUS012FSA	38KUS018FS19	38KUS024FS	38KUS030FS
Power supply	Ph-V-Hz		1Ph- 220-240V- 50Hz	1Ph- 220-240V- 50Hz	1Ph- 220-240V- 50Hz	1Ph- 220-240V- 50Hz
Power supply from			Indoor	Indoor	Indoor	Indoor
Cooling (Rating performance)	Capacity	Btu/h	12000	18000	25000	32000
		W	3517	5275	7327	9379
	Input	W	1095	1900	2500	3200
	Current	A	4.8	9.5	12.5	15.8
	EER	W/W	3.2	2.8	2.9	2.9
Indoor air flow (High/Mid/Low)		m <sup>3</sup> /h	620/510/410	700/550/450	1060/920/760	1800/1500/1300
		CFM	365/300/240	410/320/265	625/540/450	1060/880/765
Indoor sound pressure level (High/Mid/Low)		dB(A)	42/38/34	46/39/36	48/44/39	53/50/47
Indoor unit	Dimension (W*D*H)	mm	570x570x260	570x570x260	840x840x205	840x840x245
	Packing (W*D*H)	mm	655x655x290	655x655x290	900x900x217	900x900x257
	Net/Gross weight	kg	14.5/17.5	16.5/19.5	22.5/25.5	25.0/28.5
	Dimension (W*D*H)(Panel)	mm	647x647x50	647x647x50	950x950x55	950x950x55
	Packing (W*D*H)(Panel)	mm	715x715x123	715x715x123	1035x1035x90	1035x1035x90
Net/Gross weight(Panel)	kg	2.5/4.5	2.5/4.5	5.0/8.0	5.0/8.0	
Outdoor sound pressure level		dB(A)	57	57	61	63
Outdoor unit	Dimension (W*D*H)	mm	770x300x555	770x300x555	845x363x702	946x410x810
	Packing (W*D*H)	mm	900x348x625	900x348x625	965x395x765	1090x500x875
	Net/Gross weight	kg	32.1/34.5	35.8/38.6	49.0/52.5	63.0/68.5
Refrigerant (R410A)		g	1000	1000	1400	2500
Design pressure		MPa	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/Φ12.7(1/4"/1/2")	Φ6.35/Φ12.7(1/4"/1/2")	Φ9.52/15.9(3/8"/5/8")	Φ9.52/Φ19(3/8"/3/4")
	Max. pipe length	m	15	25	25	30
	Max. difference in level	m	8	15	15	20
Controller			Remote	Remote	Remote	Remote
Operation temperature		°C	17-30	17-30	17-30	17-30
Ambient temperature	Outdoor (cooling)	°C	18-43	18-43	18-43	18-43

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



Note: All features and specifications are subject to change without prior notice for product improvement purposes. (\* means optional)

# TECHNICAL SPECIFICATION

## Fixed Speed Cassette

Indoor model			42KTD036FS	42KTD045FS	42KTD055FS
Outdoor model			38KUS036FS18	38KUS045FST	38KUS055FSA
Power supply	Ph-V-Hz		3Ph- 380-415V- 50Hz	3Ph- 380-415V- 50Hz	3Ph- 380-415V- 50Hz
Power supply from			Indoor	Indoor	Indoor
Cooling (Rating performance)	Capacity	Btu/h	36000	45000	52000
		W	10551	13189	15240
	Input	W	3550	5300	6200
		A	8.2	8.5	10.5
EER	W/W	3.0	2.5	2.5	
Indoor air flow (High/Mid/Low)	m <sup>3</sup> /h		1800/1500/1300	1700/1470/1270	1890/1470/1280
	CFM		1060/880/765	1000/865/750	1110/865/750
Indoor sound pressure level (High/Mid/Low)	dB(A)		53/50/47	53/50/47	54/50/47
Indoor unit	Dimension (W*D*H)	mm	840x840x245	840x840x245	840x840x287
	Packing (W*D*H)	mm	900x900x257	900x900x257	900x900x292
	Net/Gross weight	kg	25.0/25.5	27.0/30.5	29.0/34.0
	Dimension (W*D*H)(Panel)	mm	950x950x55	950x950x55	950x950x55
	Packing (W*D*H)(Panel)	mm	1035x1035x90	1035x1035x90	1035x1035x90
	Net/Gross weight(Panel)	kg	5.0/8.0	5.0/8.0	5.0/8.0
Outdoor sound pressure level	dB(A)		63	64	63
Outdoor unit	Dimension (W*D*H)	mm	946x410x810	946x410x810	900x350x1170
	Packing (W*D*H)	mm	1090x500x875	1090x500x875	1032x443x1307
	Net/Gross weight	kg	68.5/73.0	81.5/86.5	92.7/104.2
Refrigerant (R410A)	g		2400	2300	3100
Design pressure	MPa		4.2/1.5	4.2/1.5	4.2/1.5
Refrigerant piping	Liquid side /Gas side	mm (inch)	Φ9.52/Φ19(3/8"/3/4")	Φ9.52/Φ19(3/8"/3/4")	Φ9.52/Φ19(3/8"/3/4")
	Max. pipe length	m	30	50	50
	Max. difference in level	m	20	30	30
Controller			Remote	Remote	Remote
Operation temperature	°C		17-30	17-30	17-30
Ambient temperature	Outdoor (cooling)	°C	18-43	18-43	18-43

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



Note: All features and specifications are subject to change without prior notice for product improvement purposes. (\* means optional )

# TECHNICAL SPECIFICATION

## Inverter Cassette

Indoor model			42QTD012VS	42QTD018VSG	42QTD024VSA	42QTD030VS
Outdoor model			38QUS012VS	38QUS018VSG	38QUS024VSA	38QUS030VS
Power supply	Ph-V-Hz		1Ph- 220-240V- 50Hz	1Ph- 220-240V- 50Hz	1Ph- 220-240V- 50Hz	1Ph- 220-240V- 50Hz
Power supply from			Outdoor	Outdoor	Outdoor	Outdoor
Cooling (Rating performance)	Capacity	Btu/h	12000(3000-14000)	18000(8000-19000)	24000(9000-26000)	30000(11000-31000)
		W	3517(879-4103)	5275(2345-5569)	7034(2638-7620)	8792(3224-9086)
	Input	W	1100(200-1500)	1700(720-1960)	2340(800-2800)	2800(1000-3200)
		A	4.8	7.5	10.5	12.4
EER	W/W	3.2	3.1	3.0	3.1	
Indoor air flow (High/Mid/Low)	m <sup>3</sup> /h		620/500/420	720/620/540	1350/1200/1070	1560/1400/1200
	CFM		365/295/250	425/365/320	795/710/630	920/825/710
Indoor sound pressure level (High/Mid/Low)	dB(A)		44/39/36	44/39/36	47/44/42	51/49/46
Indoor unit	Dimension (W*D*H)	mm	570x570x260	570x570x260	840x840x245	840x840x245
	Packing (W*D*H)	mm	662x662x317	662x662x317	900x900x265	900x900x265
	Net/Gross weight	kg	16.2/21.4	16.2/21.4	24.1/27.9	26.5/30.5
	Dimension (W*D*H)(Panel)	mm	647x647x50	647x647x50	950x950x55	950x950x55
	Packing (W*D*H)(Panel)	mm	715x715x123	715x715x123	1035x1035x90	1035x1035x90
	Net/Gross weight(Panel)	kg	2.5/4.5	2.5/4.5	5.0/8.0	5.0/8.0
Outdoor sound pressure level	dB(A)		57	57	61	62
Outdoor unit	Dimension (W*D*H)	mm	800x333x554	800x333x554	845x363x702	946x410x810
	Packing (W*D*H)	mm	920x390x625	920x390x625	965x395x775	1090x500x885
	Net/Gross weight	kg	29.9/32.6	34.5/37.2	49/51.5	63.0/68.5
Refrigerant (R410A)	g		1050	1350	1950	2800
Design pressure	MPa		4.2/1.5	4.2/1.5	4.2/1.5	4.2/1.5
Refrigerant piping	Liquid side /Gas side	mm (inch)	Φ6.35/9.52(1/4"/3/8")	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	15	25	25	30
	Max. difference in level	m	8	15	15	20
Controller			Remote	Remote	Remote	Remote
Operation temperature	°C		17-30	17-30	17-30	17-30
Ambient temperature	Outdoor (cooling)	°C	0-50	0-50	0-50	0-50

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



Note: All features and specifications are subject to change without prior notice for product improvement purposes. (\* means optional )

# TECHNICAL SPECIFICATION

## Inverter Cassette

Indoor model			42QTD036VS	42QTD045VS	42QTD055VS
Outdoor model			38QUS036VS	38QUS045VS	38QUS055VS
Power supply	Ph-V-Hz		3Ph- 380-415V- 50Hz	3Ph- 380-415V- 50Hz	3Ph- 380-415V- 50Hz
Power supply from			Outdoor	Outdoor	Outdoor
Cooling (Rating performance)	Capacity	Btu/h	36000(11000-36000)	45000(19000-45000)	55000(25000-55000)
		W	10551(3224-10551)	13189(5569-13189)	16120(7327-16120)
	Input	W	3900(1000-3900)	5500(1500-5500)	6500(2000-6700)
		Current	A	6.6	9.0
EER	W/W		2.7	2.4	2.5
	Indoor air flow (High/Mid/Low)	m <sup>3</sup> /h	1800/1500/1300	1800/1500/1300	1970/1500/1300
		CFM	1060/880/765	1060/880/765	1160/880/765
Indoor sound pressure level (High/Mid/Low)	dB(A)		53/50/47	53/50/47	54/50/47
Indoor unit	Dimension (W*D*H)	mm	840x840x245	840x840x245	840x840x287
	Packing (W*D*H)	mm	900x900x265	900x900x265	900x900x307
	Net/Gross weight	kg	24.5/29.0	26.7/31.1	29.3/33.3
	Dimension (W*D*H)(Panel)	mm	950x950x55	950x950x55	950x950x55
	Packing (W*D*H)(Panel)	mm	1035x1035x90	1035x1035x90	1035x1035x90
	Net/Gross weight(Panel)	kg	5.0/8.0	5.0/8.0	5.0/8.0
Outdoor sound pressure level	dB(A)		63	63	64
Outdoor unit	Dimension (W*D*H)	mm	946x410x810	946x410x810	952x415x1333
	Packing (W*D*H)	mm	1090x500x875	1090x500x875	1095x495x1480
	Net/Gross weight	kg	67.3/73.1	74.3/79.9	97/107
Refrigerant (R410A)	g		3000	3650	4000
Design pressure	MPa		4.2/1.5	4.2/1.5	4.2/1.5
Refrigerant piping	Liquid side /Gas side	mm (inch)	Φ9.52/Φ19(3/8"/3/4")	Φ9.52/Φ19(3/8"/3/4")	Φ9.52/Φ19(3/8"/3/4")
	Max. pipe length	m	30	50	50
	Max. difference in level	m	20	30	30
Controller			Remote	Remote	Remote
Operation temperature	°C		17-30	17-30	17-30
Ambient temperature	Outdoor (cooling)	°C	0-50	0-50	0-50

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



Turbo



Follow Me



Sleep Mode



Independent Dehumidification



Auto Restart Function



Timer



Self-diagnosis and Auto-protection



Gold Fin



Wired Control



Water pump

Note: All features and specifications are subject to change without prior notice for product improvement purposes. (\* means optional)

# CONCEALED DUCT



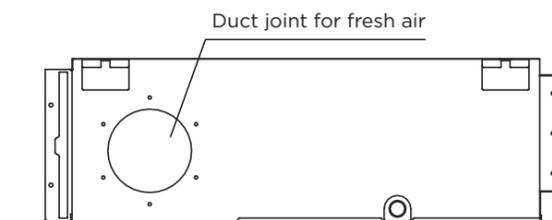
## Concealed Installation

Concealed installation, harmonize with indoor decoration.

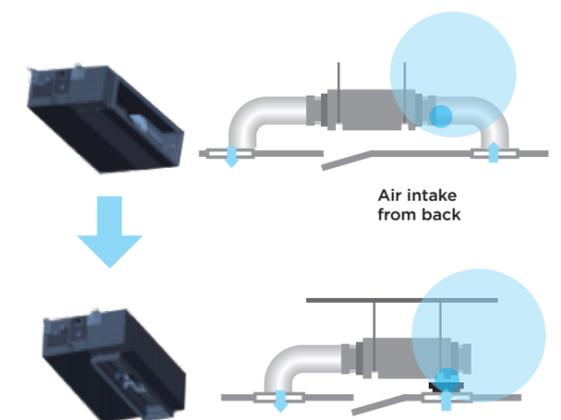
## Fresh Air



Introducing outside air improves indoor air quality. Carrier Duct comes ready with the option of fresh air intake function when connected to additional ventilation duct.



## Flexible Return Air Configuration

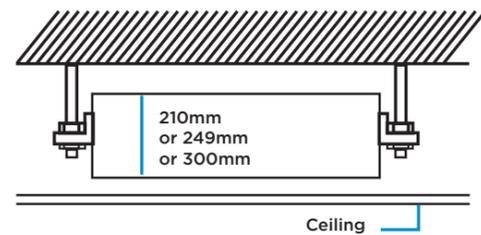


Whether return air is required from the rear or bottom, both can be easily achieved on-site by changing over the cover, as both air inlet have the same frame size.

# CONCEALED DUCT

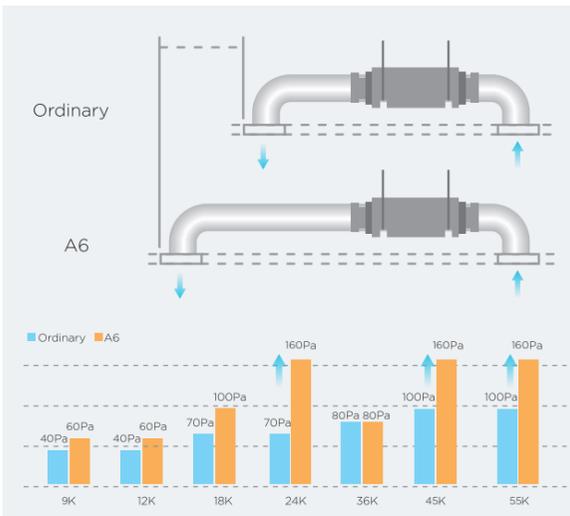
## Easy Installation

With slim design of 210 mm to 300 mm in height and requiring a minimum of 20 mm space above and below the unit, the Carrier Concealed Duct fits well into small ceiling spaces.



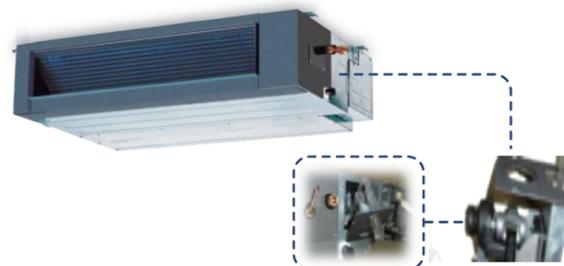
## Wide Range of External Static Pressure

Carrier Concealed Duct is designed with wide external static pressure ranges from 0 Pa to 160 Pa, suitable for short or long duct, with or without damper.



## Drain Pump

Inbuilt drain pump is capable of lifting condensing water up to 750mm, it can be easily installed at the designated compartment within the Carrier Concealed Duct unit.



## Wireless or Wired Control

You can choose to have wireless or wired remote control. The receiver incorporated in the Carrier Concealed Duct unit can be relocated up to 10 m away for wireless remote control. Alternatively, you can choose to fix wired controller to the wall for a permanent mounted control solution with additional functions for servicing and maintenance.



## Remote Control and Alarm Ports (Optional)

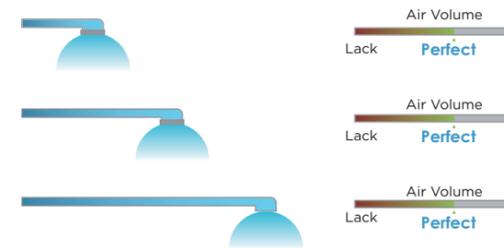
Additional reserved ports are available for long distance on-off remote control by connecting to a switch, and providing an alarm signal for external alarm light or vibration gauge.



# CONCEALED DUCT

## \*Constant air volume control

Equipped with constant air volume control technology, Carrier Concealed Duct automatically adjusts the static pressure to deliver constant air volume for optimal occupants' comfort.



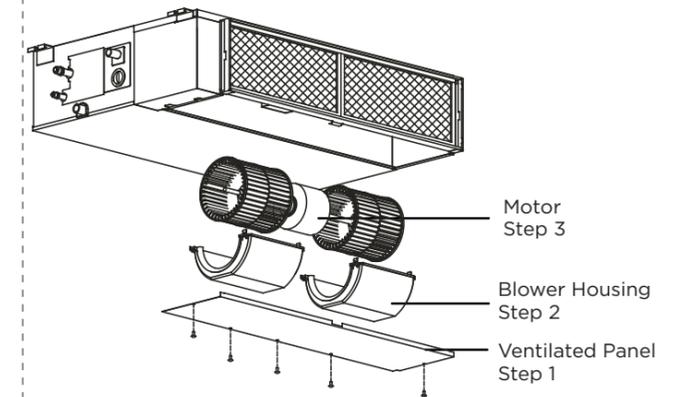
\*Applicable for Carrier Full DC Inverter Concealed Duct models featured in this catalogue.

## BMS Control (Optional)

BMS control can be implemented to Carrier Concealed Duct through Gateways, which are BACnet, LonWorks and Modbus compatible.

## Easy Maintenance

Filter can be easily removed for cleaning, regardless of installation location on the rear or bottom of the Carrier Concealed Duct. Fan and its motor can be accessed from the bottom for ease of maintenance and servicing.



Step 1: Remove the ventilated panel.  
Step 2: Remove one half of the blower housing  
Step 3: Remove 2 bolts. Now, the fan and motor can be removed.

## Follow Me

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

## Accessories for Different Needs (Optional)

For your convenience, additional accessories like front board, canvas air passage, filter and panel are available to complete the installation.

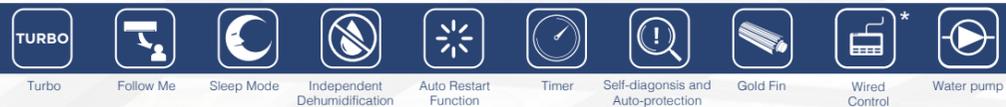


# TECHNICAL SPECIFICATION

## Fixed Speed Duct

Indoor unit customer model			42QSB018FS	42QSB024FS	42QSB036FS
Outdoor unit customer model			38QUS018FS	38QUS024FS	38QUS036FS
Power supply		Ph-V-Hz	1Ph- 220-240V- 50Hz	1Ph- 220-240V- 50Hz	3Ph- 380-415V- 50Hz
Power supply from			Indoor	Indoor	Outdoor
Cooling (Rating performance)	Capacity	Btu/h	19000	26000	36000
		W	5569	7620	10551
	Input	W	2200	2870	3700
		A	9.7	13.5	6.7
EER	W/W	2.5	2.7	2.9	
	Indoor air flow (High/Mid/Low)		m <sup>3</sup> /h	980/810/730	1350/1170/960
		CFM	580/480/430	795/690/565	1060/795/680
Indoor sound pressure level (High/Mid/Low)		dB(A)	49/45/43	48/45/43	50/44/41
ESP Range		Pa	0-60	0-80	0-80
Indoor unit	Dimension (W*D*H)	mm	880x674x210	1100x774x249	1100x774x249
	Packing (W*D*H)	mm	1070x725x270	1305x805x305	1305x805x305
	Net/Gross weight	kg	23.8/29.5	32.2/39.0	32.2/39.4
Outdoor sound pressure level		dB(A)	60	61	64
Outdoor unit	Dimension (W*D*H)	mm	770x300x555	845x363x702	946x410x810
	Packing (W*D*H)	mm	900x348x625	965x395x765	1090x500x875
	Net/Gross weight	kg	36.5/39.7	52.7/56.1	74.4/78.9
Refrigerant (R410A)		g	1500	1800	2850
Design pressure		MPa	4.2/1.5	4.2/1.5	4.2/1.5
Refrigerant piping	Liquid side /Gas side	mm (inch)	Φ6.35/Φ12.7(1/4"/1/2")	Φ9.52/Φ15.9(3/8"/5/8")	Φ9.52/Φ19(3/8"/3/4")
	Max. pipe length	m	25	25	30
	Max. difference in level	m	15	15	20
Controller			Remote	Remote	Remote
Operation temperature		°C	17-30	17-30	17-30
Ambient temperature	Outdoor (cooling)	°C	18-43	18-43	18-43

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



# TECHNICAL SPECIFICATION

## Fixed Speed Duct

Indoor unit customer model			42QSB045FS	42QSB055FS
Outdoor unit customer model			38QUS045FS	38QUS055FS
Power supply		Ph-V-Hz	3Ph- 380-415V- 50Hz	3Ph- 380-415V- 50Hz
Power supply from			Indoor	Indoor
Cooling (Rating performance)	Capacity	Btu/h	48000	53000
		W	14068	15533
	Input	W	5350	6360
		A	9.2	11.0
EER	W/W	2.6	2.4	
	Indoor air flow (High/Mid/Low)		m <sup>3</sup> /h	2200/1850/1400
		CFM	1295/1090/825	1295/1090/825
Indoor sound pressure level (High/Mid/Low)		dB(A)	53/48/42	53/48/42
ESP Range		Pa	0-160	0-160
Indoor unit	Dimension (W*D*H)	mm	1200x874x300	1200x874x300
	Packing (W*D*H)	mm	1405x915x355	1405x915x355
	Net/Gross weight	kg	46.0/54.5	46.0/54.5
Outdoor sound pressure level		dB(A)	63	63
Outdoor unit	Dimension (W*D*H)	mm	900x350x1170	900x350x1170
	Packing (W*D*H)	mm	1032x443x1307	1032x443x1307
	Net/Gross weight	kg	97.0/107.0	97.0/107.0
Refrigerant (R410A)		g	3300	3200
Design pressure		MPa	4.2/1.5	4.2/1.5
Refrigerant piping	Liquid side /Gas side	mm (inch)	Φ9.52/Φ19(3/8"/3/4")	Φ9.52/Φ19(3/8"/3/4")
	Max. pipe length	m	50	50
	Max. difference in level	m	30	30
Controller			Remote	Remote
Operation temperature		°C	17-30	17-30
Ambient temperature	Outdoor (cooling)	°C	18-43	18-43

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



# TECHNICAL SPECIFICATION

## Inverter Duct(Full DC)

Indoor model		42QSB009VS	42QSB012VS	42QSB018VSG	42QSB024VSA	
Outdoor model		38QUS009VS	38QUS012VS	38QUS018VSG	38QUS024VSA	
Power supply		Ph-V-Hz	1Ph- 220-240V- 50Hz	1Ph- 220-240V- 50Hz	1Ph- 220-240V- 50Hz	
Power supply from			Outdoor	Outdoor	Outdoor	
Cooling (Rating performance)	Capacity	Btu/h	9000(1800-13900)	12000(1800-13900)	18000(8000-18250)	24000(9000-26000)
		W	2638(528-4074)	3517(528-4074)	5275 (2345-5349)	7034(2638-7620)
	Input	W	910(155-1698)	1300(155-1698)	1650(720-1800)	2190(800-2800)
	Current	A	4.0	5.7	7.3	10.0
	EER	W/W	2.9	2.7	3.2	3.2
Indoor air flow (High/Mid/Low)		m <sup>3</sup> /h	600/480/300	600/480/300	880/650/350	1250/1100/900
		CFM	350/280/180	350/280/180	520/380/210	735/650/530
Indoor sound pressure level (High/Mid/Low)		dB(A)	40/35/27	40/35/27	44/39/35	42/40/38
ESP Range		Pa	0-60	0-60	0-100	0-160
Indoor unit	Dimension (W*D*H)	mm	700x450x200	700x450x200	880x674x210	1100x774x249
	Packing (W*D*H)	mm	860x540x285	860x540x285	1070x725x270	1305x805x305
	Net/Gross weight	kg	18.0/22.0	18.0/22.0	24.3/29.6	31.5/38.9
Outdoor sound pressure level		dB(A)	57	57	57	61
Outdoor unit	Dimension (W*D*H)	mm	800x333x554	800x333x554	800x333x554	845x363x702
	Packing (W*D*H)	mm	920x390x615	920x390x615	920x390x625	965x395x775
	Net/Gross weight	kg	29.9/32.6	29.9/32.6	34.5/37.2	49/51.5
Refrigerant (R410A)		g	1050	1050	1350	1950
Design pressure		MPa	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/Φ9.52(1/4"/3/8")	Φ6.35/Φ12.7(1/4"/1/2")	Φ9.52/Φ15.9(3/8"/5/8")
	Max. pipe length	m	15	15	25	25
	Max. difference in level	m	8	8	15	15
Controller			Remote	Remote	Remote	Remote
Operation temperature		°C	17-30	17-30	17-30	17-30
Ambient temperature	Outdoor (cooling)	°C	0-50	0-50	0-50	0-50

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



Note: All features and specifications are subject to change without prior notice for product improvement purposes. (\* means optional)

# TECHNICAL SPECIFICATION

## Inverter Duct

Indoor model		42QSB030VS*	42QSB036VS	42QSB045VS	42QSB055VS	
Outdoor model		38QUS030VS*	38QUS036VS	38QUS045VS	38QUS055VS	
Power supply		Ph-V-Hz	1Ph- 220-240V- 50Hz	3Ph- 380-415V- 50Hz	3Ph- 380-415V- 50Hz	
Power supply from			Outdoor	Outdoor	Outdoor	
Cooling (Rating performance)	Capacity	Btu/h	31000(11000-31000)	36000(11000-36000)	46000(19000-47000)	55000(25000-55000)
		W	8792(3224-9086)	10551(3224-10551)	13482 (5569-13775)	16120(7327-16120)
	Input	W	2930(1000-3200)	3900(1000-3900)	5500(1500-5700)	6800(2000-7000)
	Current	A	13.0	5.7	7.9	10.5
	EER	W/W	3.1	2.7	2.5	2.4
Indoor air flow (High/Mid/Low)		m <sup>3</sup> /h	1540/1250/720	1500/1100/900	2300/1850/1500	2300/1850/1500
		CFM	910/735/425	880/650/530	1355/1090/880	1355/1090/880
Indoor sound pressure level (High/Mid/Low)		dB(A)	53/49/46	50/45/42	51/46/42	51/46/42
ESP Range		Pa	0-160	0-80	0-160	0-160
Indoor unit	Dimension (W*D*H)	mm	1360x774x249	1100x774x249	1200x874x300	1200x874x300
	Packing (W*D*H)	mm	1570x805x305	1305x805x305	1405x915x355	1405x915x355
	Net/Gross weight	kg	40.6/48.5	34.5/41.9	47.3/56.0	47.2/55.9
Outdoor sound pressure level		dB(A)	62	63	63	64
Outdoor unit	Dimension (W*D*H)	mm	946x410x810	946x410x810	946x410x810	952x415x1333
	Packing (W*D*H)	mm	1090x500x875	1090x500x875	1090x500x875	1095x495x1480
	Net/Gross weight	kg	62.9/68.5	67.3/73.1	74.3/79.9	97.0/107.0
Refrigerant (R410A)		g	2800	3000	3650	4000
Design pressure		MPa	4.2/1.5	4.2/1.5	4.2/1.5	4.2/1.5
Refrigerant piping	Liquid side /Gas side	mm(inch)	Φ9.52/Φ15.9(3/8"/5/8")	Φ9.52/Φ19(3/8"/3/4")	Φ9.52/Φ19(3/8"/3/4")	Φ9.52/Φ19(3/8"/3/4")
	Max. pipe length	m	30	30	50	50
	Max. difference in level	m	20	20	30	30
Controller			Remote	Remote	Remote	Remote
Operation temperature		°C	17-30	17-30	17-30	17-30
Ambient temperature	Outdoor (cooling)	°C	0-50	0-50	0-50	0-50

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



Note: All features and specifications are subject to change without prior notice for product improvement purposes. (\* means optional)  
\* means this model is full DC.

# CONSOLE



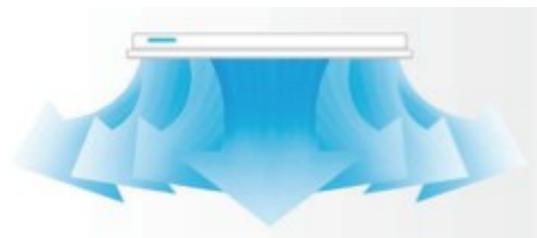
## Super Slim, Super Light - Flexible Installation

With low height of 235 mm, the Carrier Console is versatile to fit into normal or tight spaces, at the same time freeing up more room for maximum ceiling height and comfort for you. With new drain pan design, the Carrier Console is light weight and easier installation. Made of foam with plastic inner coating finishing, the new drain pan exhibits good thermal performance, improving reliability of Carrier Console thanks to good thermal performance of foam that prevents electronic components damage caused by condensation.



## 3D Air Flow

Carrier Console comes with auto horizontal and vertical swing function, ensuring well distributed air flow for your comfort.



## Louver Position Memory

The horizontal louver automatically sets at the previous position whenever the unit turns on.

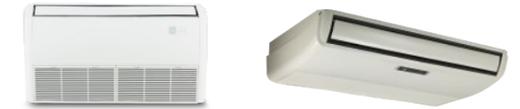


# CONSOLE

## Ceiling or Floor Installation



Carrier Console can be installed either under the ceiling or against the wall.



Notes: For 12K model is floor installation only.

## Wired Control (Optional)

You can choose to fix wired controller to the wall for a permanent mounted control solution.

## 2-way Drainage

Both right side and left side drainage holes are available to avoid the space limitation for drainage pipe installation.



## 3-way Pipe Direction

The connection pipe can be put into the unit from bottom, side or rear, which makes installation much easier.



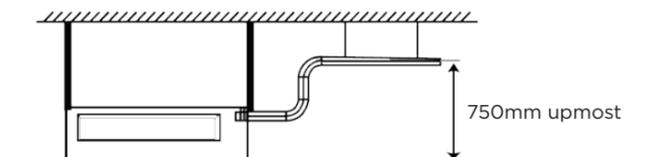
## Fresh Air (Optional)

Introducing outside air improves indoor air quality. Carrier Console comes ready with the option of fresh air intake function if needed.



## Drain Pump (Optional)

Drain pump is available as an optional accessory to meet your requirement. Capable of lifting condensing water up to 750mm, it is specially designed for Carrier Console air conditioners.



## Follow Me

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

# TECHNICAL SPECIFICATION

## Fixed Speed Console

Indoor model			42QZL018FS	42KZL024FS	42KZL036FS
Outdoor model			38QUS018FS	38KUS024FS	38KUS036FS18
Power supply	Ph-V-Hz		1Ph- 220-240V- 50Hz	1Ph- 220-240V- 50Hz	3Ph- 380-415V- 50Hz
Power supply from			Indoor	Indoor	Indoor
Cooling (Rating performance)	Capacity	Btu/h	18500	26000	36000
		W	5422	7620	10551
	Input	W	2110	2700	3700
		A	9.3	12.7	8.2
EER	W/W	2.6	2.8	2.9	
Indoor air flow (High/Mid/Low)	m³/h		1200/930/770	1200/930/770	1800/1500/1300
	CFM		710/550/450	710/550/450	1060/880/765
Indoor sound pressure level (High/Mid/Low)	dB(A)		52/47/44	52/47/44	55/51/47
Indoor unit	Dimension (W*D*H)	mm	1068x675x235	1068x675x235	1285x675x235
	Packing (W*D*H)	mm	1145x755x318	1145x755x318	1360x755x318
	Net/Gross weight	kg	24.0/29.0	24.0/29.0	29.1/34.6
Outdoor sound pressure level	dB(A)		58	61	63
Outdoor unit	Dimension (W*D*H)	mm	770x300x555	845x363x702	946x410x810
	Packing (W*D*H)	mm	900x348x625	965x395x775	1090x500x875
	Net/Gross weight	kg	36.5/39.7	51.0/54.5	68.3/72.9
Refrigerant (R410A)	g		1500	1400	2400
Design pressure	MPa		4.2/1.5	4.2/1.5	4.2/1.5
Refrigerant piping	Liquid side /Gas side	mm (inch)	Ø6.35/Ø12.7(1/4"/1/2")	Ø9.52/Ø15.9(3/8"/5/8")	Ø9.52/Ø19(3/8"/3/4")
	Max. pipe length	m	25	25	30
	Max. difference in level	m	15	15	20
Controller			Remote	Remote	Remote
Operation temperature	°C		17-30	17-30	17-30
Ambient temperature	Outdoor (cooling)	°C	18-43	18-43	18-43

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



Turbo



Follow Me



Sleep Mode



Independent Dehumidification



Auto Restart Function



Timer



Self-diagnosis and Auto-protection



Gold Fin



Wired Control

# TECHNICAL SPECIFICATION

## Fixed Speed Console

Indoor model			42KZL045FS	42KZL055FS
Outdoor model			38KUS045FST	38KUS055FSA
Power supply	Ph-V-Hz		3Ph- 380-415V- 50Hz	3Ph- 380-415V- 50Hz
Power supply from			Indoor	Indoor
Cooling (Rating performance)	Capacity	Btu/h	48000	53000
		W	14068	15533
	Input	W	5000	6100
		A	8.7	10.3
EER	W/W	2.8	2.5	
Indoor air flow (High/Mid/Low)	m³/h		2170/1860/1660	2170/1860/1660
	CFM		1280/1095/980	1280/1095/980
Indoor sound pressure level (High/Mid/Low)	dB(A)		56/52/49	56/52/49
Indoor unit	Dimension (W*D*H)	mm	1650x675x235	1650x675x235
	Packing (W*D*H)	mm	1725x755x318	1725x755x318
	Net/Gross weight	kg	39.0/45.0	41.0/48.0
Outdoor sound pressure level	dB(A)		64	63
Outdoor unit	Dimension (W*D*H)	mm	946x410x810	900x350x1170
	Packing (W*D*H)	mm	1090x500x875	1032x443x1307
	Net/Gross weight	kg	81.5/86.5	92.7/104.2
Refrigerant (R410A)	g		2300	3100
Design pressure	MPa		4.2/1.5	4.2/1.5
Refrigerant piping	Liquid side /Gas side	mm (inch)	Ø9.52/Ø19(3/8"/3/4")	Ø9.52/Ø19(3/8"/3/4")
	Max. pipe length	m	50	50
	Max. difference in level	m	30	30
Controller			Remote	Remote
Operation temperature	°C		17-30	17-30
Ambient temperature	Outdoor (cooling)	°C	18-43	18-43

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



Turbo



Follow Me



Sleep Mode



Independent Dehumidification



Auto Restart Function



Timer



Self-diagnosis and Auto-protection



Gold Fin



Wired Control

# TECHNICAL SPECIFICATION

## Inverter Console

Indoor model			42QZL012VS	42QZL018VSG	42QZL024VSA
Outdoor model			38QUS012VS	38QUS018VSG	38QUS024VSA
Power supply		Ph-V-Hz	1Ph- 220-240V- 50Hz	1Ph- 220-240V- 50Hz	1Ph- 220-240V- 50Hz
Power supply from			Outdoor	Outdoor	Outdoor
Cooling (Rating performance)	Capacity	Btu/h	12000(3000-13000)	18000(8000-19000)	24000(11800-26000)
		W	3517(879-3810)	5275 (2345-5569)	7034(3458-7620)
	Input	W	1210(200-1800)	1650(720-1800)	2340(740-2930)
	Current	A	5.5	7.3	10.0
	EER	W/W	2.9	3.2	3.0
Indoor air flow (High/Mid/Low)		m³/h	510/480/370	880/760/650	1208/1066/853
		CFM	300/280/220	520/450/380	710/630/500
Indoor sound pressure level (High/Mid/Low)		dB(A)	44/42/36	43/39/35	54/48/42
Indoor unit	Dimension (W*D*H)	mm	700x600x210	1068x675x235	1068x675x235
	Packing (W*D*H)	mm	810x710x310	1145x755x318	1145x755x318
	Net/Gross weight	kg	14.8/19.0	28.0/33.3	26.8/31.9
Outdoor sound pressure level		dB(A)	57	57	61
Outdoor unit	Dimension (W*D*H)	mm	800x333x554	800x333x554	845x363x702
	Packing (W*D*H)	mm	920x390x625	920x390x625	965x395x775
	Net/Gross weight	kg	29.9/32.6	34.5/37.2	49/51.5
Refrigerant (R410A)		g	1050	1350	1950
Design pressure		MPa	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")	Φ9.52/Φ15.9(3/8"/5/8")
	Max. pipe length	m	15	25	25
	Max. difference in level	m	8	15	15
Controller			Remote	Remote	Remote
Operation temperature		°C	17-30	17-30	17-30
Ambient temperature	Outdoor (cooling)	°C	0-50	0-50	0-50

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



Note: All features and specifications are subject to change without prior notice for product improvement purposes. (\* means optional )

# TECHNICAL SPECIFICATION

## Inverter Console

Indoor model			42QZL036VS	42QZL045VS	42QZL055VS
Outdoor model			38QUS036VS	38QUS045VS	38QUS055VS
Power supply		Ph-V-Hz	3Ph- 380-415V- 50Hz	3Ph- 380-415V- 50Hz	3Ph- 380-415V- 50Hz
Power supply from			Outdoor	Outdoor	Outdoor
Cooling (Rating performance)	Capacity	Btu/h	36000(11000-36000)	46000(19000-47000)	55000(25000-55000)
		W	10551(3224-10551)	13482 (5569-13775)	16120(7327-16120)
	Input	W	3900(1000-3900)	5400(1500-5600)	6500(2000-6900)
	Current	A	6.3	9.1	10.6
	EER	W/W	2.7	2.5	2.5
Indoor air flow (High/Mid/Low)		m³/h	1800/1500/1300	2170/1860/1660	2170/1860/1660
		CFM	1060/880/765	1280/1095/980	1280/1095/980
Indoor sound pressure level (High/Mid/Low)		dB(A)	55/51/47	56/52/49	56/52/49
Indoor unit	Dimension (W*D*H)	mm	1285x675x235	1650x675x235	1650x675x235
	Packing (W*D*H)	mm	1360x755x318	1725x755x318	1725x755x318
	Net/Gross weight	kg	31.0/36.5	37.5/43.8	40.0/46.0
Outdoor sound pressure level		dB(A)	63	63	64
Outdoor unit	Dimension (W*D*H)	mm	946x410x810	946x410x810	952x415x1333
	Packing (W*D*H)	mm	1090x500x875	1090x500x875	1095x495x1480
	Net/Gross weight	kg	67.3/73.1	74.3/79.9	97.0/107.0
Refrigerant (R410A)		g	3000	3650	4000
Design pressure		MPa	4.2/1.5	4.2/1.5	4.2/1.5
Refrigerant piping	Liquid side /Gas side	mm (inch)	Φ9.52/Φ19(3/8"/3/4")	Φ9.52/Φ19(3/8"/3/4")	Φ9.52/Φ19(3/8"/3/4")
	Max. pipe length	m	30	50	50
	Max. difference in level	m	20	30	30
Controller			Remote	Remote	Remote
Operation temperature		°C	17-30	17-30	17-30
Ambient temperature	Outdoor (cooling)	°C	0-50	0-50	0-50

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



Note: All features and specifications are subject to change without prior notice for product improvement purposes. (\* means optional )

# FLOOR STANDING



## Simple Design Concept

Carrier Floor Standing air conditioner adopts simple design that complements any interior design style, in addition to keeping you cool and comfortable.

## Control Display for Convenience

A large LCD display is integrated for easy operation. You can view the key indicators at one glance and make adjustment easily via buttons lined up.

## Dust Away with Auto-Close Louver

The air outlet louver closes automatically to keep dust away when the unit is turned off, minimizing maintenance and cleaning required.

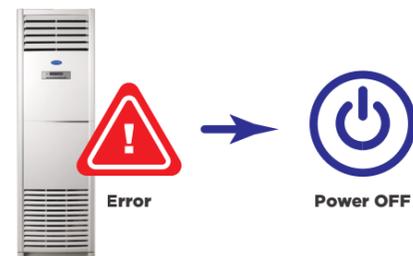
## Follow Me

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



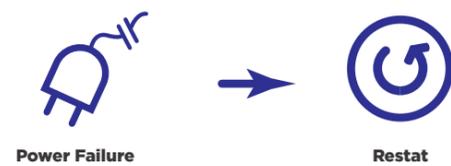
## Auto-Protection & Self-Diagnosis

In the case of abnormal operation, the auto protection system will shut down the unit automatically to avoid any risk and prevent further deterioration. The error code showed on display enables engineers to identify the problem quickly, according to maintenance book.



## Auto Restart

The system automatically restarts in the previous settings and mode when the power resumes, in the event of shut down due to power supply interruption.



# TECHNICAL SPECIFICATION

## Fixed Speed Floor Standing

Indoor model			42KFG024FS19	42KFG045FS	42KFG055FS
Outdoor model			38KUS024FS	38KUS045FST	38KUS055FSA
Power supply	Ph-V-Hz		1Ph- 220-240V- 50Hz	3Ph- 380-415V- 50Hz	3Ph- 380-415V- 50Hz
Power supply from			Indoor	Indoor	Indoor
Cooling (Rating performance)	Capacity	Btu/h	25000	45000	54000
		W	7327	13189	15826
	Input	W	2600	5250	6250
		Current	A	12.7	8.8
EER	W/W	2.8	2.5	2.5	
	Indoor air flow (High/Mid/Low)	m <sup>3</sup> /h	1130/990/850	1700/1550/1200	2500/2450/2030
CFM		665/580/500	1000/910/710	1470/1440/1195	
Indoor sound pressure level (High/Mid/Low)	dB(A)	48/45/41	54/52/46	53/52/50	
Indoor unit	Dimension (W*D*H)	mm	510×315×1750	540×410×1825	610×390×1925
	Packing (W*D*H)	mm	660×440×1910	690×565×1965	765×540×2070
	Net/Gross weight	kg	35.7/46.9	49.0/64.5	58.5/78.3
Outdoor sound pressure level	dB(A)	61	64	63	
Outdoor unit	Dimension (W*D*H)	mm	845×363×702	946×410×810	900×350×1170
	Packing (W*D*H)	mm	965×395×775	1090×500×875	1032×443×1307
	Net/Gross weight	kg	51.0/54.5	81.5/86.5	92.5/104.0
Refrigerant (R410A)	g	1400	2300	3100	
Design pressure	MPa	4.2/1.5	4.2/1.5	4.2/1.5	
Refrigerant piping	Liquid side /Gas side	mm (inch)	Φ9.52/Φ15.9(3/8"/5/8")	Φ9.52/Φ19(3/8"/3/4")	Φ9.52/Φ19(3/8"/3/4")
	Max. pipe length	m	25	50	50
	Max. difference in level	m	15	30	30
Controller			Remote	Remote	Remote
Operation temperature	°C	17-30	17-30	17-30	
Ambient temperature	Outdoor (cooling)	°C	18-43	18-43	18-43

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

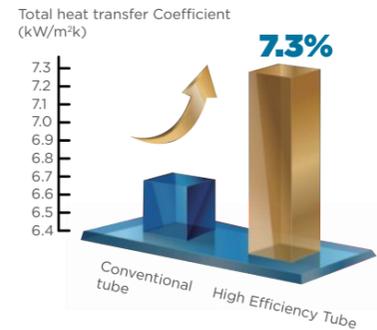
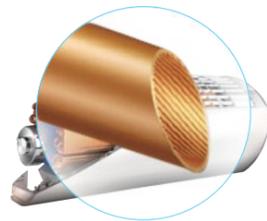


Note: All features and specifications are subject to change without prior notice for product improvement purposes.

# DESIGN FOR PERFORMANCE

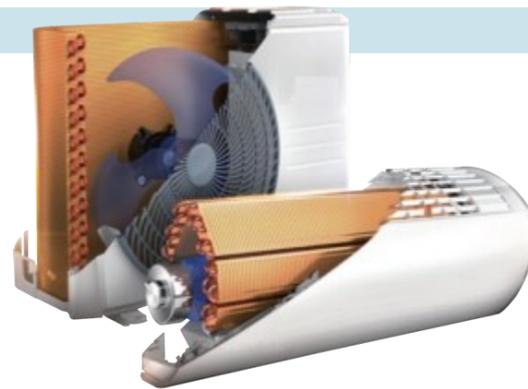
## High Efficiency Tube

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.

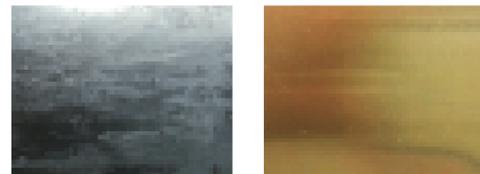


## Gold Fin for Indoor Unit and Outdoor Unit

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.

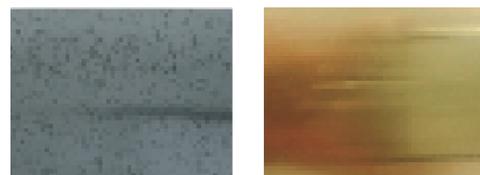


## Longer Lifetime



**Common Fin**      **Gold Fin**

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.

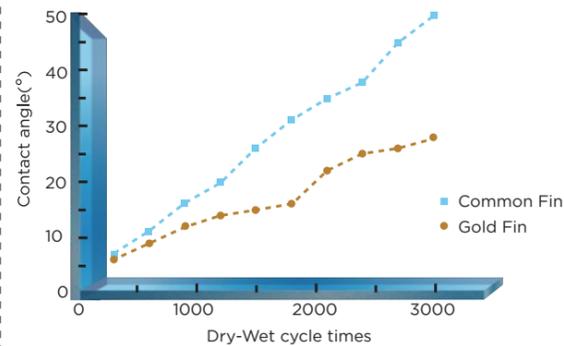


**Common Fin**      **Gold Fin**

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

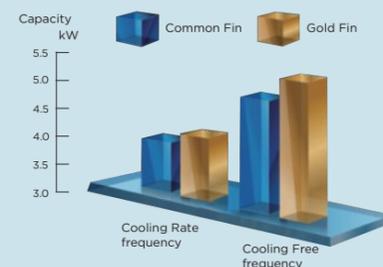
## Unique Anti-corrosive

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.



# WIRED CONTROL

## 2B Simple Controller

The wiring place of 12B is display board.

- Timer On**: To set the timer to turn unit on.
- Timer Off**: To set the timer to turn unit off.
- Follow Me**: To activate or clear the Follow Me function.
- Auxiliary Heater**: Activate the optional auxiliary heater. (Not Applicable)
- Mode**: To switch the operation mode.
- RESET**: To restore the system to its default settings.
- ON/OFF**: To turn on or off the air conditioner.
- Temperature UP**: To increase set temperature by 1 degree Celsius in each step.
- Temperature Down**: To decrease set temperature by 1 degree Celsius in each step.
- ECO**: To activate or clear the ECO mode function.
- Swing**: To start or stop the louver movement.
- LOCK**: To lock/unlock the current setting.
- Fan**: To select the fan speed.

## 120X2 Deluxe Controller

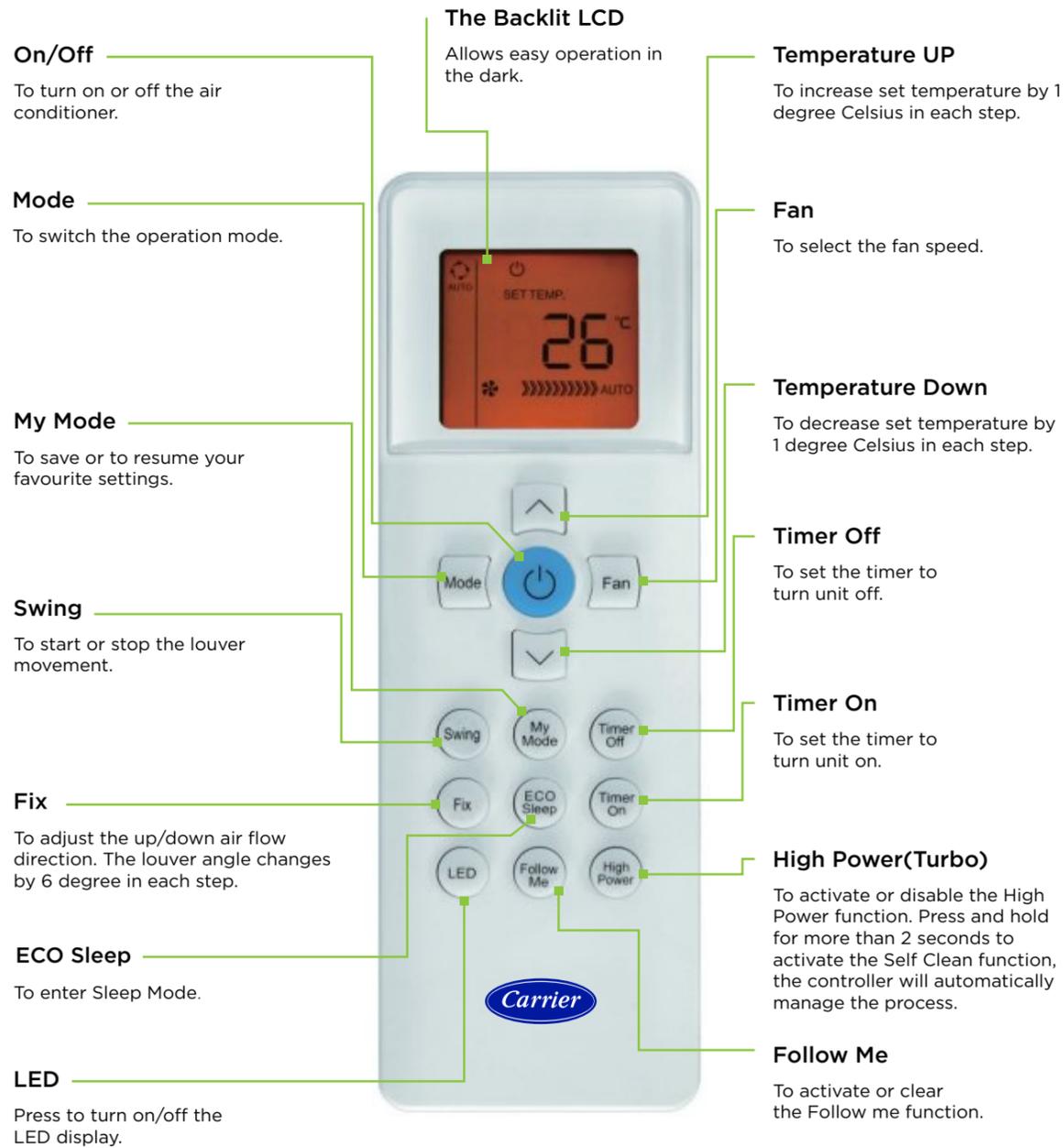
Sleek design with touch button and backlight, 120X2 Deluxe Controller is packed with more functionalities in addition to basic operations offered by 12B Simple Controller



- 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.

# MORE THAN A CENTURY OF COOL



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.