





220-240V ~, 50Hz 1Ph

High Efficiency Green High Wall Split Air Conditioners

53KHFT12N-708 53KHFT18N-708 53KHFT24N-708





Refrigerant

















Tropical

Efficient

Operation











Copper Tubing



Horizontal Air flow Auto Swing

Vertical Air flow

Auto Swing

Hydrophilic

Smart LCD

Airflow

Wireless Control

Aluminum Fins



Louver Position Memory Function







Auto Mode

Turbo

Function

Follow Me

Function









Function

Functions

Auto Restart

Function

3 Minutes

Time Delay



Protection



Self diagnostic function







Easy Flexible Installation



Easy Fast Service & Maintenance



Cleanable Front Panel



Washable Air Filter

SMART CONTROL

- 20"-

1 5 0

Infrared wireless remote

OUTDOOR UNIT

علامة الجودة الإماراتية Emirates Quality Mark

Enviromental

Management System

ISO 14001: 2004

EFFICIENT, TROPICAL & QUIET



Cool Only

Trôpical

High Wall Split is the optimum air conditioning solution for the places which require high wall installations, elegant appearance and ultimate comfort combined with efficient, quiet operation, optimum air distribution and efficient Indoor Air Quality (IAQ).

Puron High Wall Split is ideal for residential and light commercial applications.

KEY FEATURES

Healthy & Clean Indoor Air Quality (IAQ)

Formaldehyde filter filters out formaldehyde and other volatile organic compounds (VOCs) as well as harmful gases and odors. It brings you healthy air always.



Efficient anti dust washable air filters for clean and healthy air.



Self Clean function to clean and dry the indoor coil of indoor unit to prevent the bleeding of odors and bacteria.



Modern Stylish Design

Compact indoor unit with attractive appearance with compact dimensions and light weight fits any interior decor with space saving. New stylish outdoor unit look.



Smart LCD display shows control functions and error code in case of a malfunction.



Efficient Tropical Operation with Minimum Electrical Consumption

Puron works with the new R-410A refrigerant which increases its energy efficiency and does not degrade the ozone layer.



Patented heat transfer and aerodynamics technologies to ensure prefect tropical operation up to 52°C outdoor ambient temperature.



Efficient tropical rotary compressor works in high ambient up to 52°C with high efficiency and low electrical consumption leading to true powerful system cooling.



Efficient Air Management System (AMS) leading to maximum air flow with minimum turbulence for minimum air resistance, smooth airflow and efficient operation.



Carrier innovative uneven aerofoil tangential blower technology efficient operation at all speeds with maximum air flow.



Efficient indoor and outdoor coils with large heat transfer surfaces for minimum electrical consumption.



Efficient trapeziform Inner groove copper tubing compared with traditional copper tubing, it allow more refrigerant flow, improving heat exchange efficiency and lowering power consumption while keeping the same capacity output level.



Precoated Hydrophilic Aluminum Fins of indoor coil to protect the coil against corrosion and to allow easy and quick removal of unrestricted condensate water between the fins to increase airflow, improve efficiency of heat exchange and accelerate cooling process.

www.miraco.com.eg



MIRAGE

ISO 9001:2008 System Certified By DNV GL

74436-2015-AQ-ARE-RVA



Key Features

Quiet with Minimum Sound Level

Patented cross flow fan, elephant ear propeller, new heat exchangers, improved Air Management System (AMS), and quiet rotary compressor.



Durability

Anti-rust, weather proof and long life outdoor unit sheet metal parts made of chemically treated and zinc coated (galvanized) sheet metal.



Powder painted casing of outdoor unit with prefect adhesion of highly resistant ployester paint 60-80 micros thick, which is electro-statically applied and baked at a temperature of 220°C.



Complete Control Functions for Comfort

Smart LCD infrared wireless remote control with complete control functions built in the control system to ensure comfort at all operating conditions.



Smart supply air flow for comfort cool or comfort heat as per the selected mode for optimum distribution of supply air temperature and velocity inside the space to be air conditioned.



Auto-swing horizontal supply air louver to up and down for optimum distribution of supply air temperature and velocity inside the space to be air conditioned.



Auto wing of vertical supply air louvers to right or left for optimum air distribution of supply air temperature and velocity inside the space to be air conditioned.



Louver Position Memory Function When you start the unit next time, the angle of horizontal supply air louver will automatically move to the same position as you set last time.



Auto fan speed function which automatically changes the fan speed to high or medium or low speed by sensing the temperature difference between room temperature and setting temperature.



Auto mode which automatically changes the operation mode and capacity output by sensing the temperature difference between room temperature and setting temperature.



Independent Dehumidification mode which efficiently dehumidifies the room, but not lower the temperature so obviously as cooling mode.



Turbo function which automatically changes the fan speed to maximum speed for 20 minutes to maximize the cooling capacity, to output make the room cool down rapidly and to attain the desired temperature in the shortest time.



Follow Me function for smart control of comfortable temperature when you stay close to the remote control. With this technology, an efficient temperature sensor is built in the remote control just like the air conditioner is following you.



ECO function for energy saving, quiet and comfortable healthy sleep which automatically changes fan speed to low speed and controls both set and room temperatures.



Programmable timer functions for easy on and off selection with energy savings including off timer, on timer, off/on timer and on/off timer functions.



Complete Safety & Reliability Functions

Auto restart safety protection function with backup memory. When the power failure happens during the operation of the air conditioner, the microprocessor of the electronic printed circuit board of indoor unit will memorize the operation settings.

After the power is recovery happens, the air conditioner will automatically operate according to the previous operation settings (without remote control but after elapse of compressor time delay).



3 (three) minutes time delay, safety protection between compressor turning off and turning on for compressor protection against cycling.



Anti-freezing safety protection function of indoor coil when the air conditioner operates in cool mode with excessive dust on the indoor coil and / or clogged air filters and / or low ambient temperature operation of cool mode.



Smart self-diagnostic, safety protection function for malfunctions detection for easy fast service and maintenance.



Smart Refrigerant leak safety protection function by detection of sensitive sensor mounted on the indoor coil for easy, fast service and maintenance.



The components of both indoor and outdoor units comply with international standards of performance and safety.



Easy Installation, Service & Maintenance

Flexible multi outlet locations for piping from the indoor unit, easy piping connections and easy electrical connection between outdoor and indoor units.



Easy accessibility to all key components. Common spare parts across product family.



Easy removal of front panel for cleaning by easy disassembly of panel engagement with indoor unit cabinet.



Easy removal of washable air filters for cleaning by opening the hinged front panel up and then pulling filters down outside the indoor unit.





Key Features



Self Clean

Function

Self Clean function to clean and dry the indoor coil of indoor unit to prevent the bleeding of odors and bacteria.

- When Self Clean function is activated, firstly, the indoor unit operates as fan only mode with low fan speed initially. Then during this period the condensed water will take away some dust on the fins of indoor coil.
- The whole process cleans the internal side of indoor unit and prevents the aspiration of bacteria.
- Then Self Clean function will stop and then the air conditioner will stop operation.

Fan Only Mode Operation





Follow Me Function

Carrier Follow Me technology makes your air conditioner follow you for smart comfortable temperature. When Follow Me function is activated, the room temperature sensor built in the remote control is activated and replaces the sensor of the indoor unit. Then the air conditioner regulates the room temperature based on the temperature around the remote control.



Normal Operation



Operation with Follow Me Function



Smart Air flow

Smart supply air flow for comfort cool mode for optimal air distribution of supply air temperature and velocity inside the air conditioned space.

During cool mode, the supply air flap is opened counter-clockwise, which leads the supply air to blow out horizontally and then fall down by its gravitation. This results in effectively reducing the temperature difference between top and bottom air space and achieve uniform temperature inside the room in the fastest way.



Cool Mode





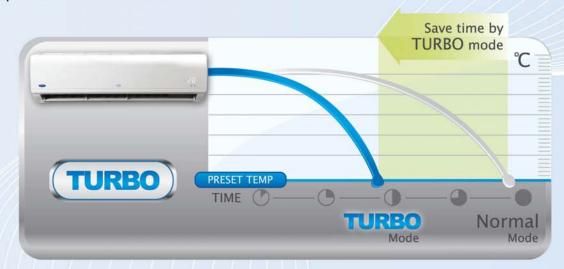
Key Features



Turbo function is used when you first come home or when you have unexpected guests.

When Turbo function is activated, the air conditioner operates in its maximum speed for 20 minutes to maximize the output of cooling capacity.

Carrier Turbo cooling technology makes your room cool down rapidly, and attain the desired temperature in the shortest time.

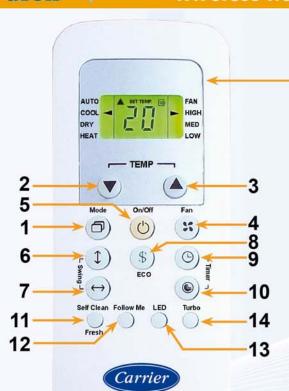




- ECO (Sleep) function is useful when you go to sleep. This function is useful for energy saving, quiet and comfortable healthy sleep.
- When ECO (Sleep) function is activated the air conditioner changes the set temperature automatically which in turn changes the room temperature automatically to maintain the most comfortable temperature and to avoid overcooling during cool mode.



Wireless Remote Control



1-	AUTO COOL DRY HEAT	717	8	ON OFF	V 1 1 4	FAN HIGH MED LOW	3 2 5
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		and the same of					

Display Of Remote Control

2	MODE indicator

AUTO	Automatic

HEAT

COOL Cooling

DRY Dehumidification only

Heating (Not Available)

FAN Ventilation (fan only)

3	ON / OFF indicator	
3	ON / OFF Indicator	

4 SET TEMP. indicator

E	EAN	SPE	ED ind	inata

LOW	1	FANI	CDEED	indiantas
LOW	LOW	FAN	SPEED	indicator

MED N	ledium	FAN S	PEED	indicator
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HIGH	High	SPEED	indicator
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AUTO Autom	atic FAN	SPEED	indicator
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6	TIMER	ON functi	ion indicator
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7 TIMER OFF function in	ndicator	r
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8 FOLLOW ME function indicato	8	FOLLOW	ME function	on indicat	0
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Display Of Indoor Unit



SET TEMP. indicator / Error code in indicator

OPERATION led

TIMER function led

Control Buttons

1	MODE selection button
1	AUTO - COOL - DRY - FAN

2 Decrease temperature button The set temperature is decreased down to 17°C.

3 Increase temperature button

The set temperature is increased up to 30°C.

4 FAN selection button

Low - Medium - High - Auto fan speed

5 ON/OFF button

6 Vertical Air Flow Auto Swing

7 Horizontal Air Flow Auto Swing

8 ECO function button

9 TIMER ON function button

10 TIMER OFF function button

11

Fresh function button *

Self Clean function button

12 F

Follow Me function button

13 LED Display function button

14 TURBO function button

Note: * This function does not work with this product but if works with other products



Smart Self Diagnostic Function For Malfunction Detection

The electronic printed circuit board in the indoor unit is equipped with smart self diagnostic function which automatically stops the operation of the air conditioner in case of a malfunction.



Leds status refers to malfunction reason

Malfunction Reason	Operation Led ① (No. of references)	Timer Led ①	Error Code
Electronic Control PCB - (EEROM defect)	(1) ☆	X	E1
Zero-crossing signal detection error	(2) 🏠	х	E2
Indoor Fan speed out of control	(3) ☆	х	E3
Return Air Sensor (open circuit or short circuit)	(5)	X	E5
Indoor Coil Sensor (open circuit or short circuit)	(6) ☆	X	E6
Outdoor Coil Sensor (open circuit or short circuit)	(7) ☆	X	E7
Outdoor fan speed has been out of control	(8) ☆	X	E8
Indoor / outdoor units communication error	(9) ☆	X	E9
Refrigerant leak or any malfunction lead to stopping of compressor operation	(2) 🏠	•	EC

X = OFF

O = ON

☆ = Flash at 5 Hz



Technical Specifications

System type			Cool Only	Cool Only	Cool Only
System model			53KHFT12N-708	53KHFT18N-708	53KHFT24N-708
Indoor unit model			42KHFT12N-708	42KHFT18N-708	42KHFT24N-708
Outdoor unit model			38KHFT12N-708	38KHFT18N-708	38KHFT24N-708
Cooling capacity	- T1 /T2 A 1 · · ·	Btu/hr	12500 / 11100	18000 / 16820	24000 / 21670
	@T1/T3 Ambient	kW	3.66 / 3.25	5.27 / 4.93	7.03 / 6.35
Input power	@ T1 / T3 Ambient	W	1100 / 1330	1700 / 1959	2250 / 2700
Input current	@ T1 / T3 Ambient	Α	5.2 / 5.9	7.5 / 8.7	10.0 / 12.1
550	- T1 / T2 A . L.	Btu/wh	11.36 / 8.35	10.59 / 8.59	10.67 / 8.03
E.E.R.	@ T1 / T3 Ambient	W/W	3.33 / 2.45	3.10 / 2.52	3.12 / 2.35
Indoor unit model			42KHFT12N-708	42KHFT18N-708	42KHFT24N-708
Dehumidification		l/h	1.3	1.9	2.4
Nominal air flow (low/med/high)		cfm	236 / 313 / 354	366 / 419 / 490	472 / 578 / 661
		m³/hr	400 / 530 / 600	620 / 710 / 830	800 / 980 / 1120
Sound Pressure (low/med/high)		dB(A)	30/37/41	36/39/45	41 / 46 / 48
Net Dimensions (W×H×D)		mm	800 x 275 x 188	940 x 275 x 205	1045 x 315 x 235
Net Weight		kg	8	10	13
Outdoor unit model			38KHFT12N-708	38KHFT18N-708	38KHFT24N-708
Tropical Compressor type			Rotary	Rotary	Rotary
Refrigerant type / Coupler type			R410A / Flare	R410A / Flare	R410A / Flare
Sound pressure		dB(A)	56	57	62
Net Dimensions (W×H×D)		mm	$780\times540\times250$	845 x 695 x 335	945 x 810 x 395
Net Weight		kg	33	50.2	64.5
Installation data					
Pipe connection sizes (inch)		Gas	1/2"	1/2"	5/8"
		Liquid	1/4"	1/4"	3/8"
Maximum pipe length		m	10	20	20
Maximum height difference		m	4	10	10
Condensate drain hose diameter		inch	5/8"	5/8"	5/8"
Recommended Wire Size / No. of Wires from Power Supply to Outdoor Unit		mm² (Qty)	3 mm ² (2 Wires + 1 Earth)	3 mm ² (2 Wires + 1 Earth)	4 mm ² (2 Wires + 1 Earth)
	Recommended Wire Size / No. of Wires between Outdoor Unit and Indoor Unit		1 mm ² (2 Wires + 1 Earth)	4 mm ² (2 Wires + 1 Earth)	1 mm ² (3 Wires + 1 Earth)
Power supply		(Qty) V/ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50

^{*} T1 Cooling Capacity and Energy Efficiency Ratio (EER) based on ISO 5151, UAE.S ISO 5151:2011 & UAE.S 5010-1:2014 Standards: 35°C ambient Temperature. 27/19°C db/wb Indoor Temperature. 230 volts power supply. High Air Flow

* Cooling Capacity & EER tolerances 5%

^{*} T3 Cooling Capacity and Energy Efficiency Ratio (EER) based on ISO 5151, UAE.S ISO 5151:2011 & UAE.S 5010-1:2014 Standards : 46°C ambient Temperature. 29/19°C db/wb Indoor Temperature. 230 volts power supply. High Air Flow

^{*} Systems work in cooling at high ambient temperature up to 52°C

^{*} Systems comply with Safety Standards IEC 60335-2-40

^{*} Carrier is committed for continuous improvement of Carrier products according to national and international standards to ensure the highest quality and reliability standards, and to meet market regulations and requirements.

All specifications subject to change without prior notice according to Carrier policy of continuous development.