



United Technologies
turn to the experts

Tropical



220-240V ~, 50Hz 1Ph

Miraco

COOL ↑ EER

HEAT ↑ COP



Platinum Green

High Wall Split Systems
Cool Only & Heat Pump
18K - 24K



Plasma Green Technology



Tropical Compressor



Smart LCD Wireless Control



Independent Dehumidification



Anti-Freezing Protection



Easy Flexible Installation



Active Carbon Electrostatic Filter



Efficient AMS



Smart Airflow



Turbo Function



High Temp. Protection



Easy Fast Service & Maintenance



Efficient Anti-dust Filters



Efficient Fans



Vertical Air flow Auto Swing



Follow Me Function



Cold Draft Protection



Cleanable Front Panel



Self Clean Function



Efficient Coils



Horizontal Air flow Auto Direction



ECO Function



Defrost Protection



Washable Air Filters



Fashion Design



Inner Groove Copper Tubing



Lower Position Memory Function



Timer Functions



Self diagnostic function



LCD Display



Hydrophilic Aluminum Fins



Auto Fan Speed



Auto Restart Function



Refrigerant Leak Detection



Efficient Operation



Super Quiet



Auto Mode



3 Minutes Time Delay

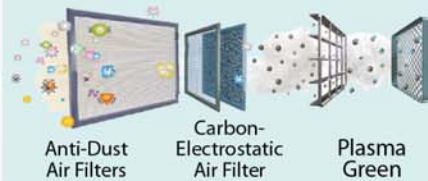


SMART CONTROL



Infrared remote

EFFICIENT AIR FILTRATION



EFFICIENT, TROPICAL & QUIET



OUTDOOR UNIT



18K - 24K



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

KEY FEATURES

Healthy & Clean Indoor Air Quality (IAQ)

Plasma Green air purifier generates a high voltage electrostatic field. The air passing through this zone is converted to Plasma, and 95% of the dust, smoke and pollen particles are attracted to an electronegative filter for clean and healthy air.



Efficient carbon - electrostatic air filter for odors and microscopic dust removal.



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



Self Clean function which is used after cooling mode to automatically clean and dry the indoor coil of indoor unit to prevent the bleeding of odors and bacteria.



Modern Aesthetic Design

Attractive appearance with compact dimensions and light weight. Fits any interior decor with space saving.



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



Efficient Tropical Operation with Minimum Electrical Consumption

Patented heat transfer and aerodynamics technologies to ensure perfect tropical operation up to 52°C outdoor ambient temperature for energy saving and low operating cost.



Efficient super tropical rotary compressor works in high ambient temperature 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 for 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 allows more refrigerant flow, improves heat exchange efficiency and lowers 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 wet airflow, improve heat exchange efficiency and accelerate cooling process.



Key Features

Quiet with Minimum Sound Level

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



Complete Control Functions for Comfort

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



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



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



Auto-swing vertical supply air flaps 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 louver will automatically move to the same position as you set last time.



Auto fan speed 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 dehumidifies the room efficiently, but not lower the temperature so obviously as cooling operation.



Turbo function which automatically changes the fan speed to maximum speed for 20 minutes to maximize the output of cooling capacity, make the room cool down rapidly and 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 for easy on and off selection with energy savings including off timer, on timer, off/on timer and on/off timer functions.



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 perfect adhesion of highly resistant polyester paint 60-80 microns thick, which is electro-statically applied and baked at a temperature of 220°C.



Complete Safety & Reliability Functions

Auto restart function with backup memory. When the power failure happens during the operation of the air conditioner, the microprocessor of the printed circuit board will memorize the operation settings. After the power is recovered, the air conditioner operates automatically according to the previous operation settings (without remote control after elapse of compressor time delay).



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



Anti-freezing protection of indoor coil when the air conditioner is operating in cool mode with excessive dirt on the indoor coil and / or clogged air filters and / or low ambient temperature operation of cool mode.



High temperature protection of outdoor coil when the air conditioner is operating in cool mode. This protection is only for heat pump system.



Cold draft protection when the air conditioner is operating in heat mode to prevent blowing out of cold air at the beginning of heat mode which in turn avoids the user discomfort.



High temperature protection of indoor coil when the air conditioner is operating in heat mode.



Defrost protection of outdoor coil when the air conditioner is operating in heat mode at very low ambient temperature.



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



Smart Refrigerant leak detection by 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 connections 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 the cabinet of indoor unit.



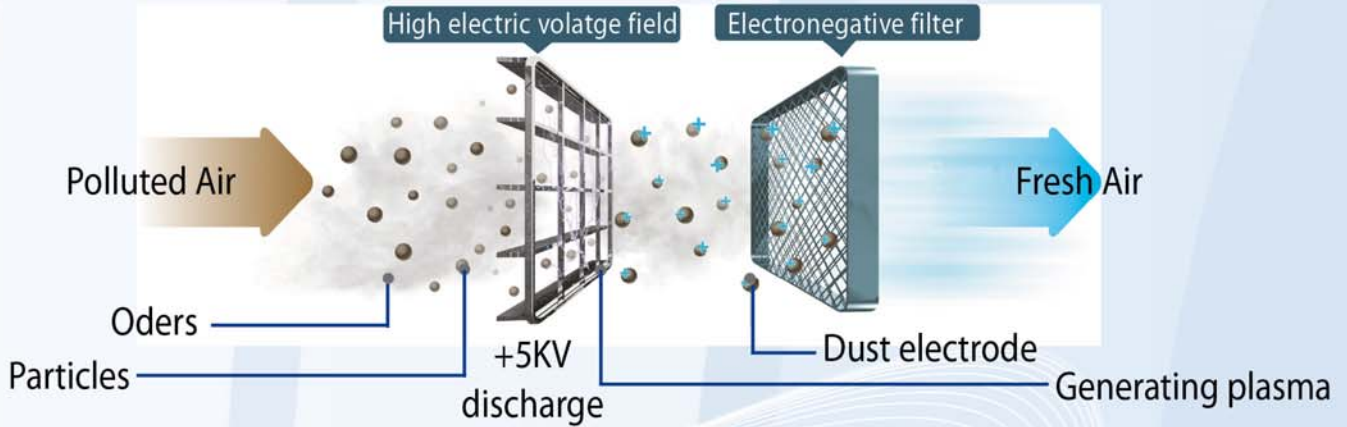
Easy removal of washable air filters for cleaning by opening the hinged front panel up and then pulling filters down outside the indoor unit.





Plasma Green Technology

Plasma Green air purifier generates a high voltage electrostatic field. The air passing through this zone is converted to Plasma, and 95% of the dust, smoke and pollen particles are attracted to an electronegative filter.



Self Clean Function

Self Clean function which is used after automatically cooling mode 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.
- After that the indoor unit turns to heat mode with low fan speed which dries the inside of indoor unit. Finally the indoor unit turns to fan-only mode and blows away the wet air.
- The whole process cleans the internal side of indoor unit and prevents the aspiration of bacteria.



Smart Air flow

Smart supply air flow for comfort cool and heat as per selected 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.



- During heat mode, the supply air flap is opened clockwise, which leads the warm air to fall directly on the floor vertically. Since hot air is lighter than cold air around, it will diffuses upward quickly. This results in effectively reducing the temperature difference between top and air space.

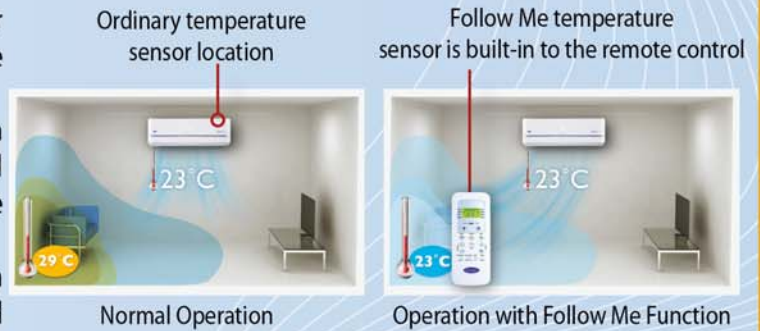
Key Features

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 into the remote control is activated and replaces the room temperature sensor installed inside the indoor unit.

Then the air conditioner regulates the room temperature based on the temperature around the remote control which is close to you.

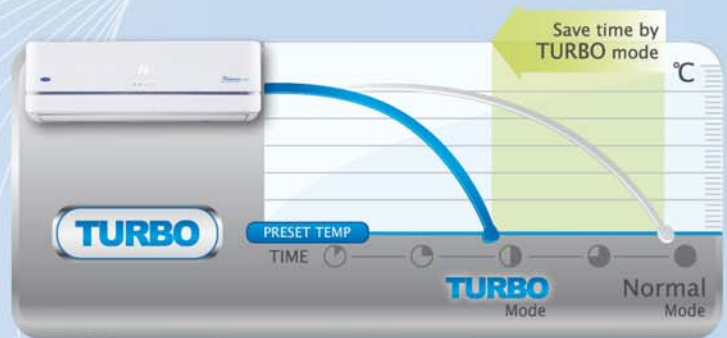


Turbo Function

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.

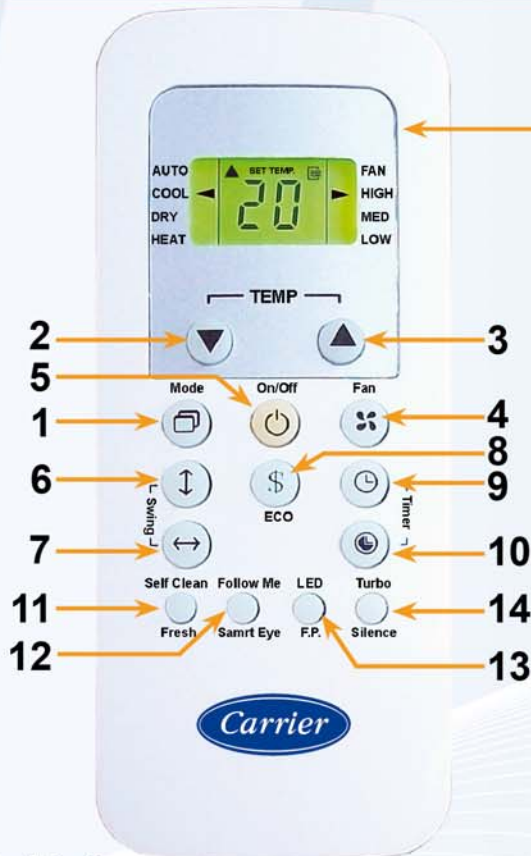
Carrier Turbo cooling technology makes your room cool down rapidly, and attain the desired temperature in the shortest time.



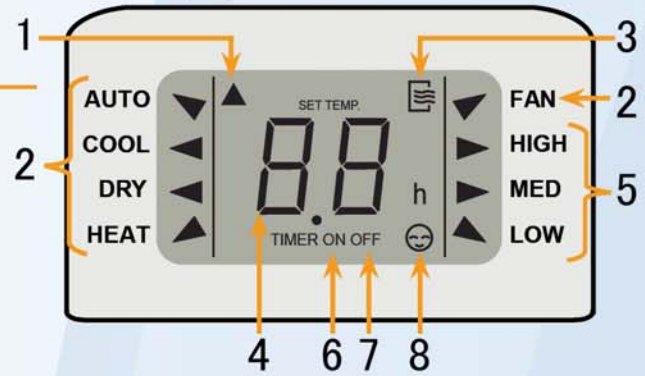
ECO Sleep Function

- 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 automatically the setting temperature which in turn, changes automatically the room temperature to maintain the most comfortable temperature and to avoid overcooling during cool mode or overheating during heat mode.





Display Of Remote Control



1 Signal transmission indicator

2 MODE indicator

AUTO Automatic

COOL Cooling

DRY Dehumidification only

HEAT Heating

FAN Ventilation (fan only)

3 ON / OFF indicator

4 SET TEMP. indicator

5 FAN SPEED indicator

LOW FAN SPEED indicator LOW

MED FAN SPEED indicator MED

HIGH FAN SPEED indicator HIGH

AUTO FAN SPEED indicator AUTO

6 TIMER ON function indicator

7 TIMER OFF function indicator

8 FOLLOW ME function indicator

Control Buttons

- | | |
|----|--|
| 1 | MODE selection button AUTO - COOL - DRY - HEAT - 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 | Self Clean function button Fresh function button |
| 12 | Follow Me function button Smart Eye function button * |
| 13 | LED Display function button F.P. function button * |
| 14 | TURBO function button Silence function * |

Display Of Indoor Unit



88 Setting Temperature / Error Code (in case of a malfunction)

⌚ Timer function led

⏻ Operation led

❄ Cold Draft or Defrost led (Only for heat pump unit)

🌀 Plasma function led

Note : * This function does not work with this product but 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 | Run Led ⏻ (No. of references) | Timer Led | Error Code |
|--|---------------------------------------|-----------|------------|
| Electronic Control PCB· (EEROM defect) | (1) ☆ | X | E1 |
| Indoor / Outdoor Units communication error | (2) ☆ | X | E2 |
| Indoor Fan speed out of control | (3) ☆ | X | E3 |
| Default (original four time current protect | (4) ☆ | X | E4 |
| 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 out of control | (8) ☆ | X | E8 |
| Indoor / outdoor units communication protection | (9) ☆ | X | E9 |
| Refrigerant leak | (2) ☆ | ● | EC |

X = OFF

● = ON

☆ = Flash

Technical Specifications

| | | | |
|---|--------------------|------------------|--------------------|
| System model | Cool Only | 53KHMT18N2-708J | 53KHMT24N2-708J |
| Indoor unit model | Cool Only | 42KHMT18N2-708J | 42KHMT24N2-708J |
| Outdoor unit model | Cool Only | 38KHMT18N2-708 | 38KHMT24N2-708 |
| Cooling capacity @ 35°C / 46°C Ambient | Btu/hr | 18900 / 17300 | 23700 / 21700 |
| | kW | 5.54 / 5.07 | 6.95 / 6.36 |
| Rated input - Cooling @ 35°C / 46°C Ambient | W | 1989 / 2321 | 2443 / 2902 |
| Rated current - Cooling @ 35°C / 46°C Ambient | A | 9.1 / 10.2 | 11.2 / 12.7 |
| E.E.R. - Cooling @ 35°C / 46°C Ambient | Btu/wh | 9.50 / 7.45 | 9.70 / 7.48 |
| | W/W | 2.78 / 2.18 | 2.84 / 2.19 |
| System model | Heat Pump | 53QHMT18N2-708J | 53QHMT24N2-708J |
| Indoor unit model | Heat Pump | 42QHMT18N2-708J | 42QHMT24N2-708J |
| Outdoor unit model | Heat Pump | 38QHMT18N2-708 | 38QHMT24N2-708 |
| Cooling capacity @ 35°C / 46°C Ambient | Btu/hr | 18900 / 16300 | 22600 / 19000 |
| | kW | 5.54 / 4.78 | 6.62 / 5.57 |
| Rated input - Cooling @ 35°C / 46°C Ambient | W | 1948 / 2274 | 2379 / 2896 |
| Rated current - Cooling @ 35°C / 46°C Ambient | A | 8.9 / 10.0 | 10.7 / 12.7 |
| E.E.R. - Cooling @ 35°C / 46°C Ambient | Btu/wh | 9.70 / 7.17 | 9.50 / 6.56 |
| | W/W | 2.84 / 2.10 | 2.78 / 1.92 |
| Heating capacity | Btu/hr | 19200 | 23200 |
| | kW | 5.63 | 6.80 |
| Rated input - Heating | W | 2023 | 2144 |
| Rated current - Heating | A | 9.3 | 9.70 |
| C.O.P - Heating | W/W | 2.78 | 3.17 |
| Indoor unit model | | | |
| Dehumidification | l/h | 2.3 | 2.3 |
| Nominal air flow (low/med/high) | cfm | 342 / 442 / 590 | 678 / 749 / 826 |
| | m ³ /hr | 580 / 750 / 1000 | 1150 / 1270 / 1400 |
| Sound Pressure (low/med/high) | dB(A) | 33 / 38 / 44 | 41 / 44 / 47 |
| Net Dimensions (WxHxD) | mm | 990 x 315 x 218 | 1186 x 340 x 258 |
| Net Weight Cool Only / Heat Pump | kg | 12 | 17 |
| Outdoor unit model | | | |
| Tropical Compressor type | | Rotary | Rotary |
| Refrigerant type / Coupler type | | R407C / Flare | R407C / Flare |
| Sound pressure | dB(A) | 61 | 62 |
| Net Dimensions (WxHxD) | mm | 860 x 575 x 350 | 860 x 575 x 350 |
| Net Weight Cool Only / Heat Pump | kg | 58.7 / 58.7 | 58.5 / 58.7 |
| Pipe connection sizes (inch) | LiquidxGas | 3/8" x 5/8" | 3/8" x 5/8" |
| Maximum pipe length | m | 20 | 20 |
| Maximum height difference | m | 10 | 10 |
| Condensate drain hose diameter | inch | 5/8" | 5/8" |
| Power supply | V/ph/Hz | 220-240/1/50 | 220-240/1/50 |

* **Cooling Capacity and Energy Efficiency Ratio (EER) based on ISO 5151, UAE.S ISO 5151:2011 & UAE.S 5010:2011 Standards :**

35°C ambient Temperature. 27/19°C db/wb Indoor Temperature. 230 volts power supply. High Air Flow

* **Cooling Capacity and Energy Efficiency Ratio (EER) based on ISO 5151, UAE.S ISO 5151:2011 & UAE.S 5010:2011 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**

* **Cooling Capacity & EER tolerances 5%**

* **Heating Capacity and Coefficient of Performance (COP) are based on ISO 5151 Standards at operating conditions :**

20°C db Indoor Temperature. 7/6°C db/wb Outdoor Temperature. 230 volts power supply. High Air Flow

* **Systems comply with Safety Standards IEC 60335-2-40**

* **Carrier is committed to continuously improving its 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.