

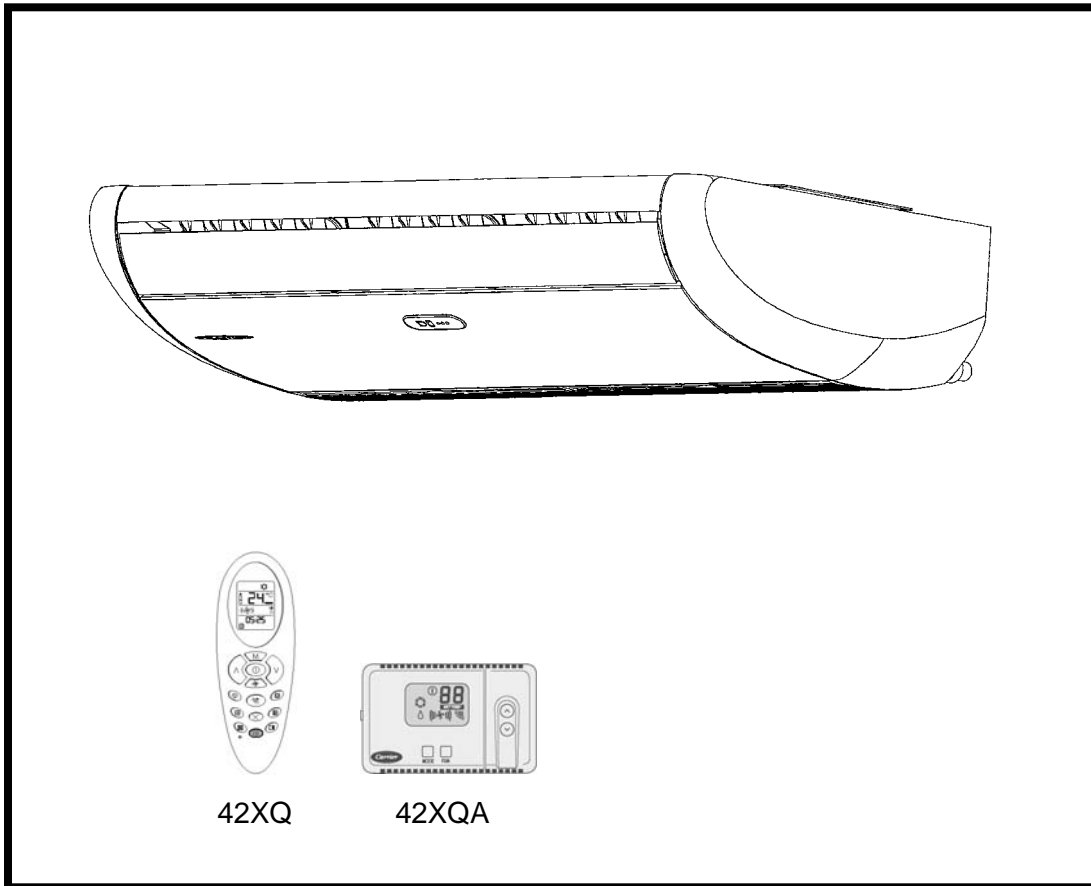
**OWNER'S MANUAL**



**42XQ/XQA**

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**UNDERCEILING  
CONSOLE**



- 42XQ : Cooling only direct expansion Fan Coil Unit (Wireless Control)**  
**42XQA : Cooling only direct expansion Fan Coil Unit (Wired Control)**

# Thank you for choosing **Carrier!**

You can be sure that you've made a wise choice, because the same pride we take in manufacturing the **Carrier** equipment installed in the Astrodome in Texas, in the Sistine Chapel, in the Capitol – the seat of the US Congress – and in thousands of other installations worldwide, is embodied in the design of the unit you have just purchased.

One of the greatest benefits to await you when using your air conditioner is that, in addition to maintaining a pleasant temperature in the area where it is installed, the ambient air is also filtered and dehumidified, thus improving the quality of the air you breathe.

This manual has been created to familiarize you with all of the technological features and benefits which this air conditioner unit can offer.

This manual also contains important information regarding the maintenance of your new air conditioner, servicing the unit and, above all, running it in an economical way. Set aside a few minutes to carefully read through the contents of this manual and learn to optimize the use of your new **Carrier** device in terms of personal comfort and economy of operation.

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# PRECAUTIONS

## Safety considerations

The installation, servicing and maintenance of air conditioning equipment may be hazardous due to the pressure which the refrigerant gas exerts on the interior, and its electrical components. Only specialized and professionally qualified personnel may install, repair or perform servicing work on air conditioning equipment. Non-specialized people may only perform basic maintenance work such as: cleaning the coils and cleaning and/or replacing the filters.


All other types of maintenance work may only be performed by specialized personnel. To perform such work, the installer must follow the safety standards applicable, and must wear safety goggles, clothing and gloves suitable for this purpose. Appropriate protection must be used during welding work; a fire extinguisher must always be kept close to hand.

For your safety, read these instructions through carefully and respect all of the labels marked **WARNING** below.

**WARNING** or **CAUTION** contained in this manual or attached to the housing of the unit.

Consult your local regulations applicable with respect to electrical installations for special requirements.

### Recognize the safety information

The symbol “” indicates a safety alert. When you see this symbol, it is because there is a potential risk of material damage or personal injury. Understand the meaning of the words **DANGER**, **WARNING AND CAUTION**. These words are used in conjunction with the alert symbol.

**DANGER** means situations with a severe risk to injury to people, including the risk of death. The word **WARNING** means situations which could result in personal injury, including death. The word **CAUTION** indicates unsafe practices which could result in minor personal injury or material damage.

### WARNING



- Do not attempt to interconnect units from different manufacturers without first consulting your Carrier representative or an engineer specializing in air conditioning. The incompatibility between the indoor and outdoor unit and its control devices could cause serious problems for both units and invalidate the manufacturers' warranty coverage. Carrier accepts no liability and will cancel the product warranty if these installation instructions are not followed as indicated, or if the wiring is changed. Consult your preferred Carrier representative for further details.
- Before installing, modifying or performing servicing work on the system, check that the electrical power supply to the unit has been switched off. Check that there is not more than one power switch. Check and label each switch present with the appropriate wording. Electric shocks can cause personal injury, and even death. If the power supply cable is damaged, it must be replaced only with an authorized Carrier spare part by its network of authorized dealers.

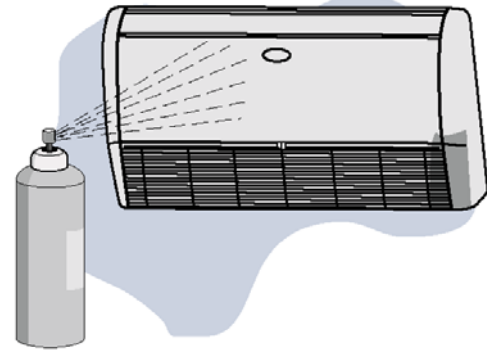
## CAUTION



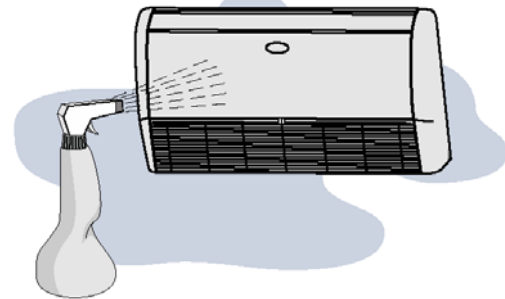
### DISCONNECTING THE UNIT FROM THE MAIN POWER SUPPLY

These units must be connected to the main electrical power supply through a circuit-breaker or switch fuse with an appropriate capacity and with a minimum separation between the contacts of 3mm. If this is not possible, a contact/container combination equipped with an active earth wire must be used. The contact must have easy access after installation. The contact must be disconnected from the receptacle to ensure that no electrical power gets to the unit. It is vitally important to follow the safety standards in force at the connection location and also to check that the electrical power supply is actively equipped with an earth cable

Do not spray flammable aerosols near to the unit. The unit may be damaged if it comes into contact with gasoline, solvents, benzene, insecticides or other chemical substances.



To prevent electric shocks, never splash water into either the indoor or outdoor units.

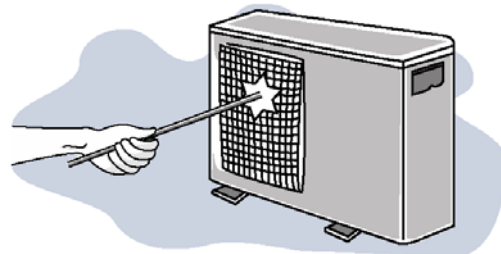


## WARNING

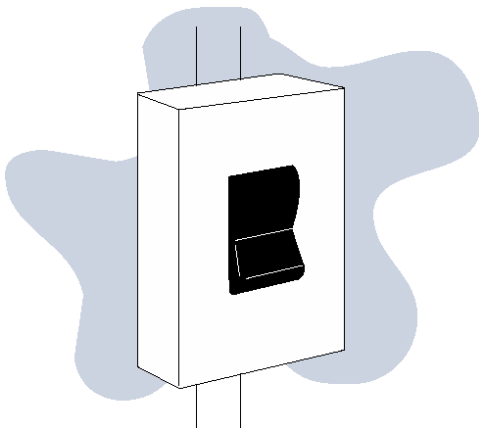


Do not attempt to disconnect the unit at the main power switch. Always use the unit's control when you want to disconnect the system.

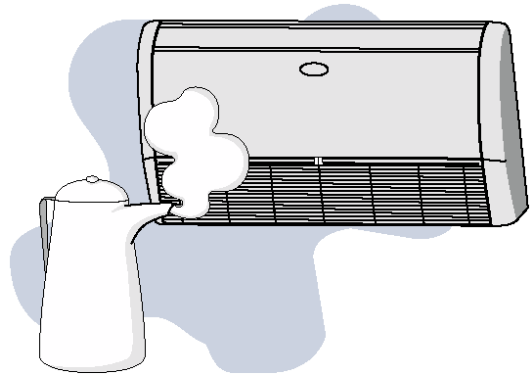
Do not insert your hands or fingers, or place objects inside the air discharge grille of the outdoor unit, because the fan rotates at very high speeds, which may cause serious personal injury.



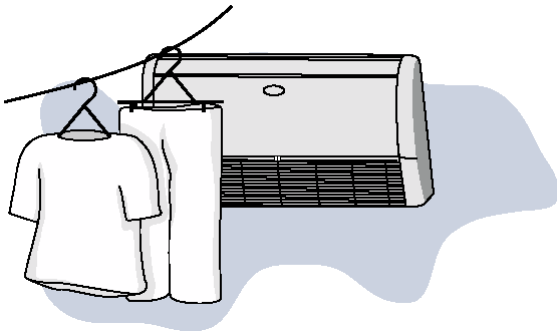
Use only a circuit-breaker with a suitable capacity.



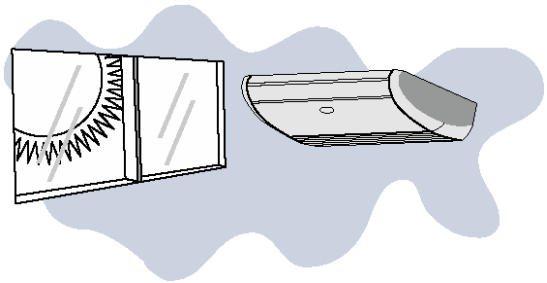
Keep the unit away from heat sources. High temperatures may cause physical damage to the unit.



Do not obstruct the air discharge of any of the indoor and outdoor unit. Doing so, blocks the airflow, reducing the cooling capacity and causing the unit to malfunction.



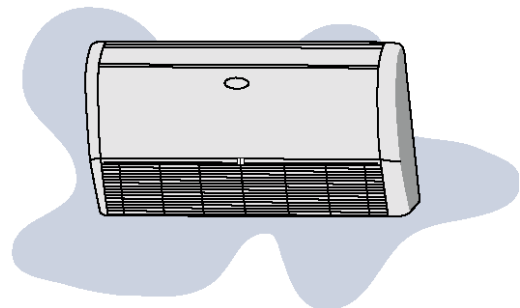
In summer, prevent sunlight from entering the air-conditioned area as far as possible. You can do this by using curtains or blinds on the windows.



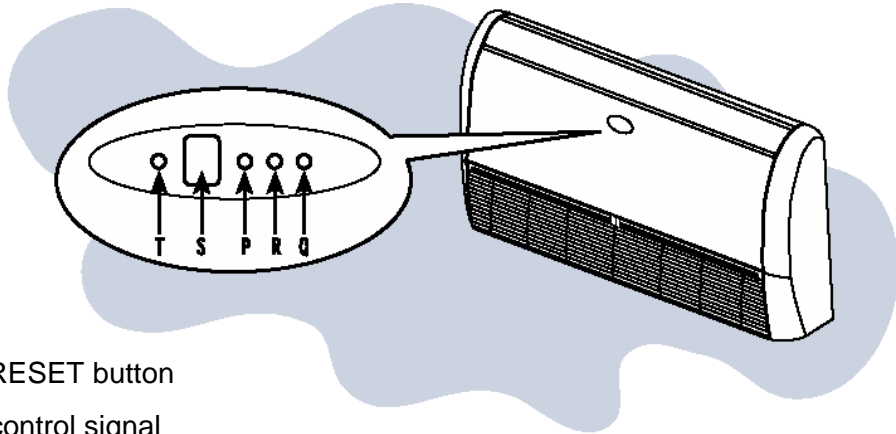
The manufacturer accepts no liability in the event of damage caused by: mistakes or changes when establishing the electrical connections or refrigerant gas connections, during installation or due to the inappropriate use of the equipment. Failure to observe these instructions will immediately invalidate the warranty of your unit.

This unit will only operate correctly if it is installed and tested by personnel professionally qualified and trained for such work.

Use the voltage indicated on the unit's data plate. Using a voltage different from the specified voltage may cause very serious damage to the unit.



# DISPLAYS OF THE INDOOR UNIT, LED INDICATORS AND CONTROLS



- T** : EMERGENCY and RESET button
- S** : Receiver of remote control signal
- P** : Green LED
- R** : Yellow LED
- Q** : Red LED

## Indoor Unit LEDs

Information about the operating mode of the indoor unit is given by the 3 LEDs (light-emitting diodes) on the unit.

**0 THE GREEN LEAD (P)** indicates the followings:

- Error diagnosis
- During normal operation, the LED is illuminated.

## NOTE

- When the unit is disconnected or in Standby mode (waiting), the LED remains switched off. If a breakdown occurs, the LED flashes at 5-second intervals. The error code is shown by the number of times the LED flashes. A pause of 5 seconds occurs between the luminous signal cycles.

ERROR CODE	DESCRIPTION
3	Ambient temperature sensor error
4	Indoor unit coil sensor error
7	Outdoor unit error
10	EEPROM malfunction
11	Corrupted serial number
12	Incomplete address/zone information
13	Gas flow distribution error

0 THE RED LED (Q) indicates the following information

- During normal operation, the LED is switched off.
- During defrosting, the LED is illuminated.
- During the testing of the electrical connections, the LED flashes at 1 second intervals.

0 THE YELLOW LED (R) indicates that the unit is operating in timer mode. During this operating mode, the LED is illuminated. If timer mode is active and the unit is reset immediately after a stop, this LED flashes after receiving a new signal from the unit.

### “EMERGENCY button” (T)

This may be used when the remote control is not working or has been lost.

#### Emergency Operation

When the unit is in OFF mode (disconnected) and you press the emergency button for **5 seconds**, the unit starts operating as follows:

- Automatic mode
- Temperature at 22° C
- Automatic fan speed
- The air deflectors are positioned automatically according to the operating mode – see note
- Timer deactivated during cleaning or replacement of filter

### NOTE

- Positioning of the selector key: the units leave the factory configured for the underceiling position.

**CONSOLE** : Position 1  
**UNDERCEILING** : Position 0

If in doubt, refer the Installation and Operation Manual.

### NOTE

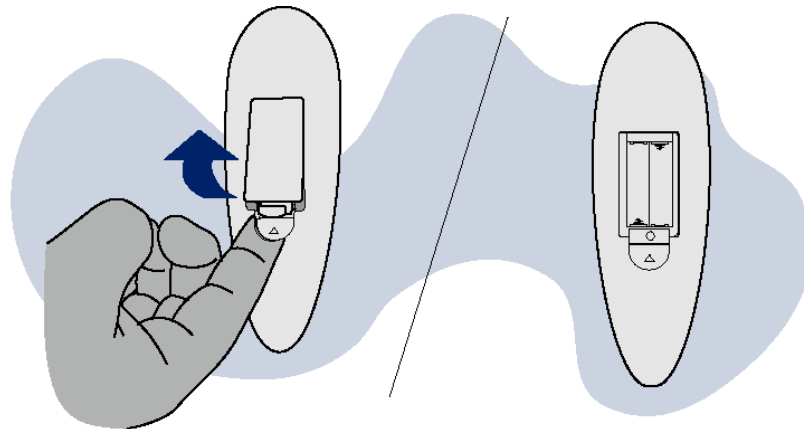
According to the signal received via the remote control, the unit starts operating according to the command selected.

### “RESET” (T)

This button must be pressed for one second to revert to normal operation of the unit after cleaning work or replacing the filter.



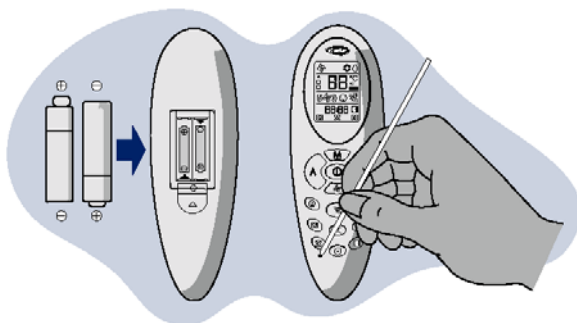
## REMOTE CONTROL



The remote control works with 1.5 V batteries. When the battery icon appears on the display of the remote control, it's time to replace the old batteries.

### Inserting the batteries

- Open the battery compartment on the back of the remote control. To remove the small cover, press down the small tab in the direction indicated by the arrow in the diagram.
- Remove the old batteries and insert new ones. The remote control requires two batteries (1.5V type AAA).
- Press the “o” button with a sharp-pointed object to reset the remote control.



### CAUTION



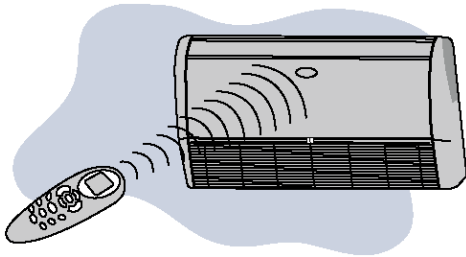
Before replacing the batteries, the device must be disconnected.

### NOTE

- The average life of the batteries under normal conditions of use is approximately one year.
- If the air conditioner does not function as normal after the remote control batteries have been replaced, remove the batteries again, reinsert them and press the “o” button again after 5 seconds

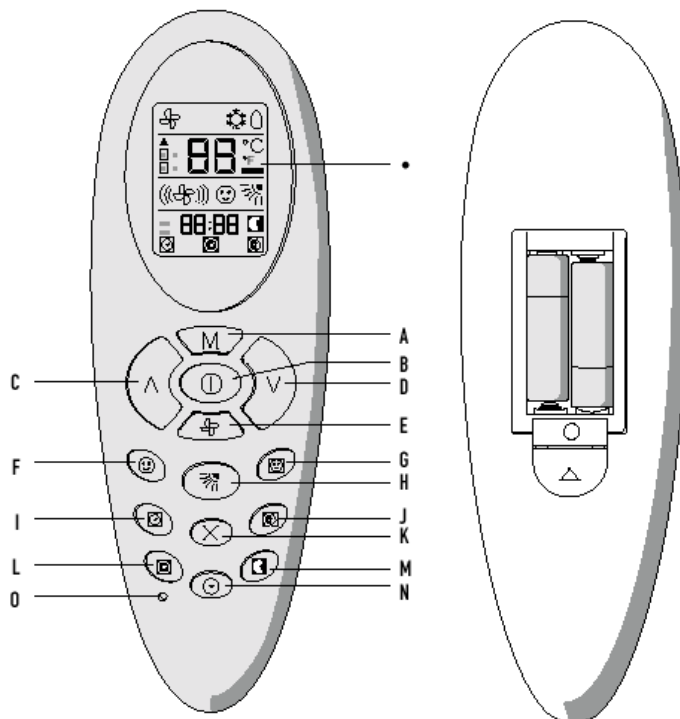
## NOTE

- The maximum distance for the infrared remote control to work properly is 5 metres.
- There must be no objects, for example, curtains, obstructing the space between the unit and the remote control.



## NOTE

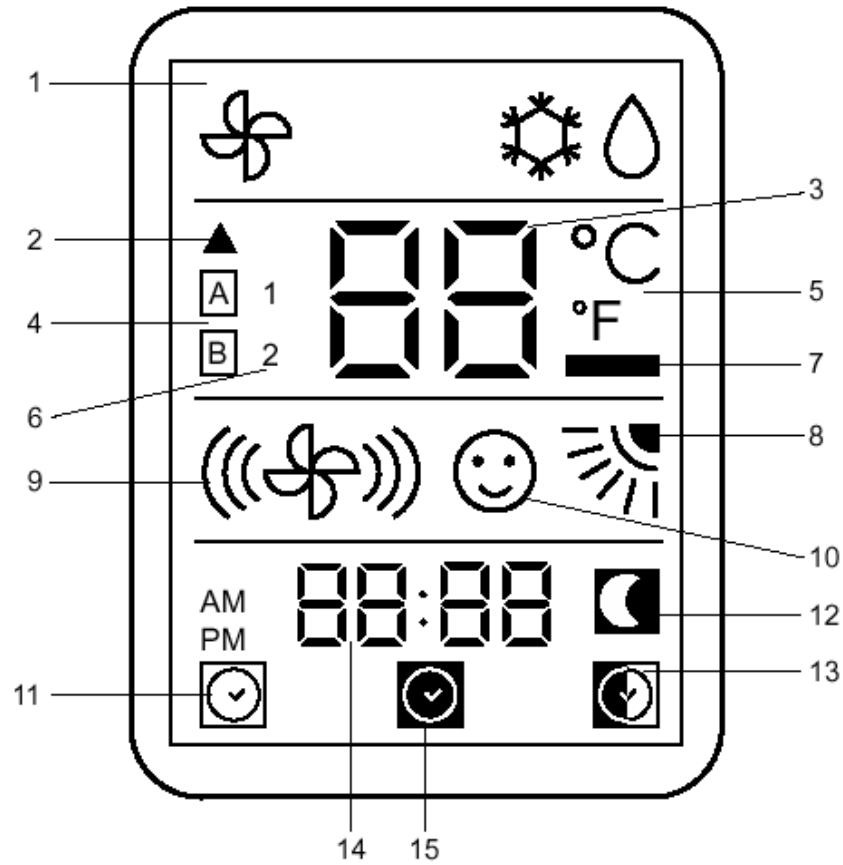
- Sunlight shining directly onto the signal reception area of the unit may cause difficulties in receiving the signal emitted by the remote control.
- The remote control must be pointed towards the device's signal reception area when you press the desired button.
- The electronic control system emits an acoustic signal (beep) to confirm the reception of the emitted message.



### Reading on the display or viewfinder

- A. Operating mode selection button
- B. ON/OFF button – Connect/disconnect
- C. Button for increasing the selected temperature
- D. Button for reducing the selected temperature
- E. Fan speed selection button
- F. Customized control button
- G. Customized selections button
- H. Deflector control button
- I. Button for connecting the timer (ON)
- J. Button for the daily timer (DAILY)
- K. Button for canceling the timer setting
- L. Button for disconnecting the time (OFF)
- M. Button for setting the night operating mode (SLEEP)
- N. Button for setting the time
- O. Reset button

## USING THE SELECTED FUNCTIONS



**1. Operating mode (from left to right):**

- Ventilation (fan only)
- Cooling with dehumidification
- Dehumidification only

**2. Signal transmission symbol**

**3. Temperature reading**

**4. "Address" selector**

**5. Temperature measuring unit (°C or °F)**

**6. Configuration of the unit**

**7. Low battery indicator**

**8. Position of the air deflector**

**9. Fan speed**

**10. Active customization**

**11. Timer ON selected**

**12. Night timer activated**

**13. Day timer activated**


**14. Timer ON, OFF and clock**




**15. Timer OFF selected**


# USING THE WIRELESS REMOTE CONTROL



Connect / Disconnect  
(Key B)

When the air conditioner is disconnected, the control display shows only the hour of the day (if other icons are shown, disconnect the control by pressing the “” button).

Press the “” button to connect the unit. All of the selected and saved functions light up; the unit operates according to the functions selected. Press the “” button to disconnect the air conditioner. All of the unit’s signals disappear and the control display shows the current time only. If the unit does not stop, connect the control (by pressing the “” button) and repeat the operation.

If the “” button is pressed immediately after the disconnection of the unit, the unit only starts operating again after 3 to 5 minutes due to the protection against the frequency cycle of the compressor.

The unit only emits the BEEP acoustic signal when the orders have been received correctly.



Select the Operating Mode  
(Key A)

The operating mode of the air conditioner can be selected with this button.

By pressing this button repeatedly, the available operating modes are selected sequentially. The unit recognizes the signal received with a confirmation BEEP and the operating mode selected is indicated as follows:

## Indicated symbol



Ventilation (fan only)



Cooling with dehumidification



Dehumidification only



## Setting the desired temperature



Increase  
(Key C)



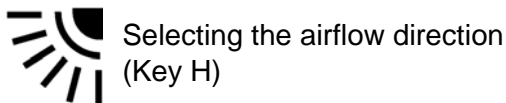
Decrease  
(Key D)

By pressing the buttons “” and “”, you increase or decrease the desired ambient temperature. With each touch of the button, the unit emits the confirmatory BEEP acoustic signal and the selected temperature appears on the display.


The selected temperature may be between 17°C (63°F) and 32°C (90°F) at 1-degree intervals.

## NOTE


In cooling mode, if the temperature selected is higher than the ambient temperature, the unit will not start operating.





The deflector direction must be set so as to optimize the ambient airflow distribution.

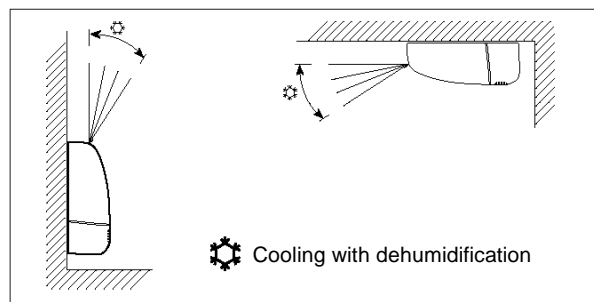
Press the button  until one of the following positions is displayed:

### Icons appearing on the display

 The airflow direction is adjusted automatically. The deflector will remain in the pre-selected position, according to the operating mode.

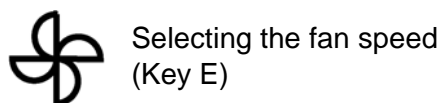
 6 different airflow directions may be selected.

 The deflector will continue to swing downwards and upwards. The “Swing” option guarantees an effective and uniform distribution of ambient air at all times.




### NOTE

In COOLING, DE-HUMIDIFICATION and VENTILATION modes, the deflector swings to the COOLING option.





The fan speed can be selected by pressing the button with the icon


### Indicated symbol

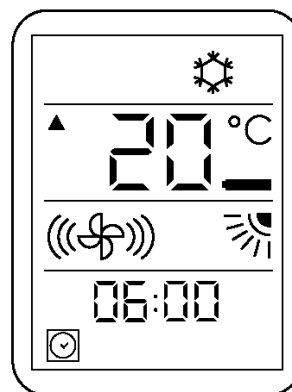
 Low speed  
(for night operation)

 Medium speed

 High speed (from when the unit is turned on until the desired temperature is reached)

 Automatic (the fan speed changes automatically to the value providing the best possible comfort)

 Programming the Timer to start (ON)



### 1. Timer ON button (Button I)

Press this button even if the remote control is turned off. The relevant icon and the picture of the clock start flashing. If you do not press a button for 10 seconds, the remote control switches itself off (it was already switched off when the button was pressed), or the timer function is automatically deactivated.

## 2. HOUR and MINUTES buttons



### ( ^ and v buttons)

If the unit is connected, the only possible selection is the time of starting operation. The unit operates with the selections shown on the display.

## 3. HOUR and MINUTES buttons


### ( ^ and v buttons)

If the unit is disconnected: select the operating start hour and use the temperature control buttons ( ^ and v buttons).

First select the hour and then confirm by pressing the button . Then select the minutes using the buttons ^ and v. To set the clock permanently, press button  again.


## 4. Operating mode

Select the operating mode of the unit. The icons begin to flash. To select the mode, use the **M** button.



After selecting the mode, press the  button. The icon of the selected mode starts flashing.

## 5. Desired temperature


To select the desired temperature (the value will be flashing), use the ^ or v buttons.



Press button  to confirm the selection. The numbers stop flashing.

## 6. Fan speed

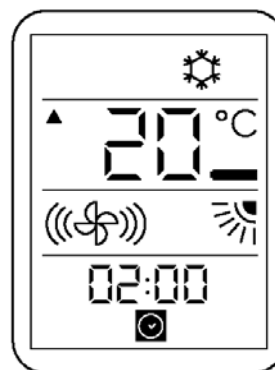
Select the fan speed using the  button. After making your selection, press button  to confirm. The icon stops flashing.

## 7. Positioning the air deflector

This icon now flashes. Use button  to select the desired position.

Press button  to confirm. Now all of the icons are fixed on the display. If you want to cancel the selections made up to now, press button **X**; if you want to cancel the selections since the timer was set, press button  and then button **X**

## Programming the Time to stop (OFF)




### 1. TIMER OFF button (Button L)

Press button .

The timer OFF icon and the hour selection numbers start flashing.

This function may be selected even with the remote control disconnected.






### 2. HOUR and MINUTES selection buttons ( ^ and v buttons)

To select the clock, press the ^ and v. To toggle between hours and minutes, press button .


Press button  again to confirm.



## Customization and (Button G and F)

If you want to save a customized operating mode which you can reactive at any time, complete the following steps:



1. With the remote control connected or disconnected, press button  and keep it pressed down for more than 5 seconds. The customization icon  starts flashing on the display.
2. Press button **M** to select the operating mode.
3. Press button  $\wedge$  and  $\vee$  to select the desired temperature.
4. Use button  to select the fan speed.
5. Use button  to select the deflectors' position.
6. After entering all the selected options, press button  to save them.

### NOTE

After this procedure, all of the selected and saved functions will be able to be activated using button , regardless of the operating mode of the unit.

After entering customized mode, press one of the buttons: **M**, ,  $\wedge$ ,  $\vee$  or  to exit. If you want to change one or more saved settings, return to point 1 and restart the setting procedure.

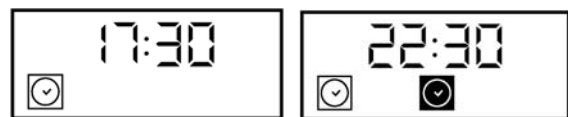
## Daily timer (DAILY - button J)

Press button  when timer ON or OFF is active. The icon appears on the display. In this way, the saving of the timer ON and OFF is repeated daily. To deactivate the daily function, press button  again.

## Combining the TIMER ON, OFF and DAILY programming

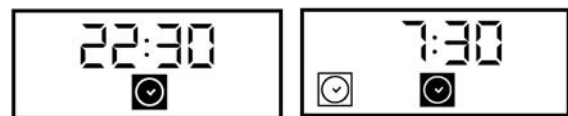
If you want the unit to start operating at 5:30pm and stop operating at 10:30pm, proceed as follows:

1. Select timer ON for 5:30pm
2. Select timer OFF for 10:30pm
3. Select the desired operating mode (button **M**)




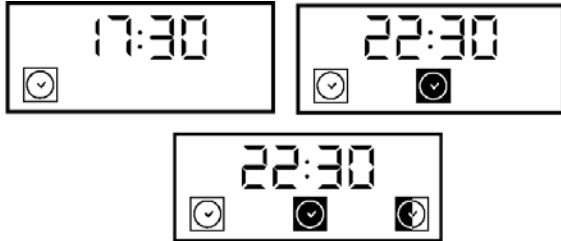
If you want to stop the unit at 10:30pm and restart at 7:30am with the same operating mode, proceed as follows:

1. Select timer OFF for 10:30pm during operation
2. Select timer ON for 7:30am.



If you want the daily operating mode to start at 5:30pm and stop at 10:30pm, proceed as follows:



1. Select timer ON for 5:30pm
2. Select timer OFF for 10:30pm
3. Press the button of the daily operating mode (Button )



### Canceling the ON, OFF and DAILY TIMER programming



1. If you want to cancel the selection of ON or OFF timer, press the buttons, following this sequence:

- Button  or 
- Button X

To deactivate the daily operating mode function, press button 

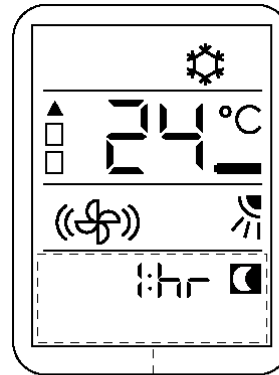
#### NOTE

The daily operation function will remain active until one of the two timers (ON or OFF) is activated.

### Programming the night timer (SLEEP - button M)

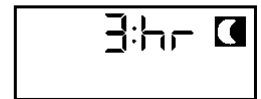
Press this button to set the night timer (SLEEP) with the remote control connected. The icon appears on the display. This procedure allows you to set the remaining operating time of the unit.


1. "1:hr" appears on the display, together with the icon.




2. Press button  $\wedge$ . The display shows the following selections in the sequence:

1 hr, 2 hr, 3 hr, 4 hr, 5 hr, 6 hr, 7 hr, 8 hr and 9 hr




3. Once you have selected - using the buttons  $\wedge$  or  $\vee$  - the remaining operating hours, press button  again to confirm.
4. After the night timer has been set, the unit will check the selected temperature to prevent excessive cooling during operation.


### Buttons for setting the time and resetting (Button N and O)


Press the clock setting button  to adjust the real time. Press the button "o" with a sharp-pointed object, if the remote control is not working properly or after replacing the batteries.

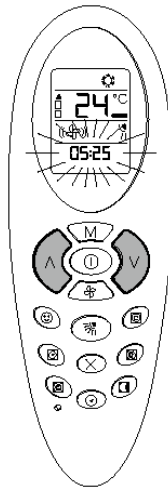
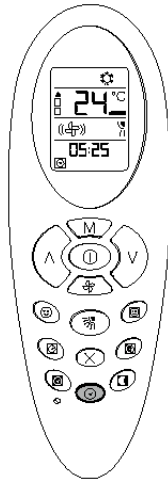


## Setting the hour (Button N)

1. With the remote control connected or disconnected, press button .
2. The numbers of the hour start flashing. Press button  $\wedge$  or  $\vee$  to set the desired hour.

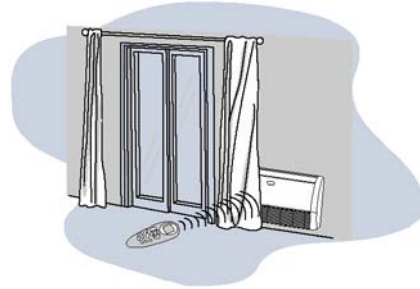
Press button  to switch to the minutes, in order to set them.

3. To make this selection, always use buttons  $\wedge$  or  $\vee$ .
4. After setting the hour, press button  to confirm.

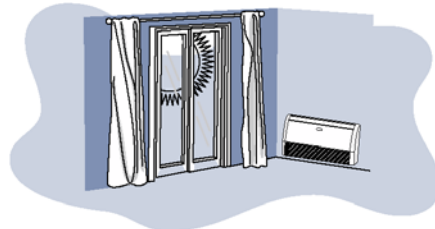


## CAUTION !!!

The air conditioner will not work if there are curtains, doors or other objects blocking the signal sent from the remote control to the unit.



If the infrared signal receiver of the indoor unit is directly exposed to the sun's rays, the equipment will not function properly. Block the incidence of sunlight until the exposure has been eliminated.



## NOTE

### “Address” Selector

- If there are two indoor units in the same room, you can connect one remote control to one indoor unit and the other remote control to the other unit, or you can control both units using just one remote control.
- For the configuration, consult the Installation & Start-up Instruction's Manual.

Together with the remote control, you will receive a mounting support to put it inside. Attached the support the wall.

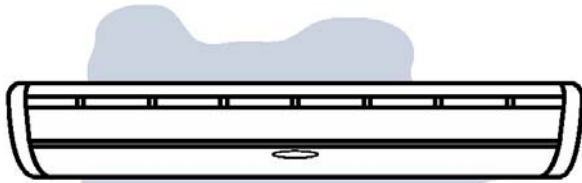


## NOTE

Always use the remote control to set the position of the air deflectors; otherwise operational anomalies may result. Disconnect the unit and reconnect it when manually setting the grid outside of the range.

## Control to the left and right

If you want to set the direction of the air to the right or left, adjust the deflector by hand after opening the horizontal deflector.

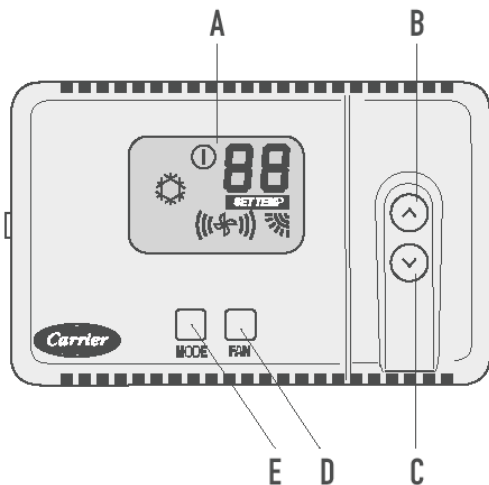


### NOTE

**DO NOT** adjust the deflector by hand if the unit is operating in **SWING** mode, since this may damage the air oscillation mechanism.

## WIRED REMOTE CONTROL

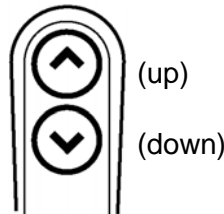
General Information and Specifications



- A = Reading on the display
- B = Increase temperature / change the air deflector setting button
- C = Decrease temperature / change the air deflector setting button
- D = Fan speed selection button
- E = Operating mode selection button

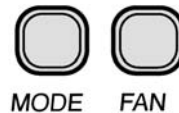
## Specifications

- **Operating Modes:**  
Off (disconnected), Cool (refrigeration), Dry (dehumidification), and Fan only (ventilation)
- **Fan Speeds:** Low, Medium, High and Auto
- **Deflector temperature:** Between 17 and 32°C (63 and 90°F)
- **Cancellation of temperature sensor of unit:** Allows you to use the air sensor located on the remote control instead of the sensor located inside the unit.
- **Diagnostics:** Detects errors in the remote control air sensor.  
0 The code "A1" shown on the display indicates this anomaly.



### "UP" and "DOWN" buttons

Buttons for increasing or decreasing the temperature or selecting the air deflector modes "AUTO" or "SWINGING"

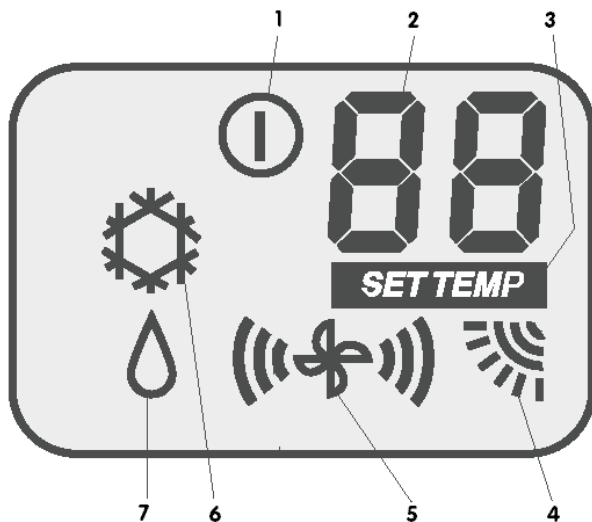


Operating mode selection button.



Air deflector or fan selection button.

## Display the selected functions



1. Disconnected
2. Selected temperature/ambient temperature
3. Set temperature
4. Deflector operating position
5. Fan speed
6. Refrigeration
7. Dehumidification only

## Control Powered Up

All of the segments of the [Remote Control Display](#) must be powered up for five seconds. Information about the operating mode, fan speed, desired temperature and configuration must be read from the [Microprocessor](#) inside the Remote Control. If the [EEPROM](#) values are not valid, the following must be used by default.



**Example of normal operation**

When connected, the control display appears.

Operating Mode	=	AUTO
Fan Speed	=	AUTO
Desired Temperature	=	22°C
°F or °C	=	C
Deflector (louper)	=	AUTO
Cancellation of the Ambient Thermistor	=	OFF
Refrigeration Only	=	Cool

## SETTING THE OPERATING MODE

“MODE” button



Pressing the “MODE” button causes the operating mode to change. The “MODE” button must be released and then pressed again to switch to the next mode. The active mode will always be displayed in normal operation.

### NOTE

If the “MODE” button is not pressed for **15 seconds**, the next command always changes the mode to **OFF**.

The available operating modes to select from are:

Remote Refrigeration Only

	OFF (disconnected)
	COOL (refrigeration)
	DRY (dehumidification)
	FAN ONLY (ventilation)



### OFF Mode

- OFF mode
- Ambient Temperature: if configured by canceling the ambient environment sensor. Otherwise none.

### Available Buttons

- “MODE” button

## COOL and DRY modes

- ICON of the Operating Mode.
- Ambient Temperature: if configured by canceling the temperature sensor of the ambient environment unit (operated by the environment controller); otherwise the temperature is selected by the user with the “SET TEMP” icon.
- FAN/LOUVRE icon with the Fan and Louver settings – air deflector – selected by the user.

### Available Buttons

- All the Buttons are available.



**DRY**  
Dehumidification Operation



**COOL**  
Refrigeration Operation

## FAN ONLY mode



### FAN ONLY

Operation with fan ventilation only



### “UP” and “DOWN” buttons

Selecting the desired temperature

#### NOTE

- Press the buttons “UP” - hotter, or “DOWN” - colder, to change the temperature.
- The maximum temperature of the device is 32°C (90°F) and the minimum temperature is 17°C (63°F).

Whenever the set point is being displayed, the “SET TEMP” icon is illuminated.

Whenever the display mode changes from °F to °C, the **setpoint** is set to the default start-up values of 22°C for “°C” mode and 72°F for “°F” mode.



If the air sensor embedded in the remote control is activated, the display shows the ambient temperature after a few seconds.

## “FAN” button



Setting the fan speed.

When the “FAN” button is pressed, the fan speed is changed.

To reach the desired speed, the “FAN” speed button must be pressed and then released.

### Low, Medium, High or Auto.

0 The icon on the display show that a change has occurred.

#### NOTE

The setting of the AUTO mode is shown by the flashing of the medium and High speed icons of the fan.

Low

Medium

High



#### Auto (automatic)

The fan speed changes automatically from the requested value to an ideal temperature. When this function is activated, the dotted symbols flash.

## Air Deflector Control

- Keep the “FAN” button pressed down for 5 seconds.
- The selected air deflector setting is displayed.
- By pressing the “UP” and “DOWN” buttons, you can change the desired configuration of the air deflector.

The two settings will be displayed as follows:



### AUTO

Automatic positioning of air deflector to the best position for the selected operating mode.



### SWING (oscillation)

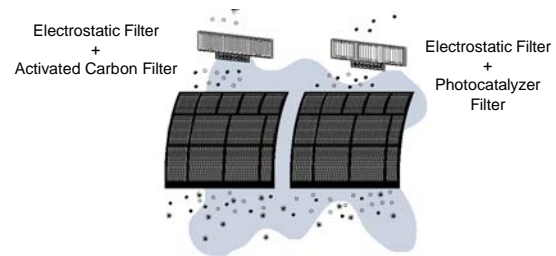
The deflector swings continuously.



- Press the “FAN” button to exit air deflector control selection mode.
- This mode will exit automatically after no button has been pressed for 10 seconds.
- The only way to change the operating mode is by returning to this menu.

## Information about Filters

- Air Filters (optional)
  - Option 1: Electrostatic Filter + Activated Carbon Filter.
  - Option 2: Electrostatic Filter + Photocatalyzer Filter.
- The air filters trap dust and small particles.
- The optional combination Electrostatic Filter + Photocatalyzer Filter traps microscopic dust particles and cigarette smoke in the air-conditioned area.



## Filter Life Cycle

- The useful life of the filters described above varies according to the quantity of cigarette smoke, the size of the air-conditioned area and the operating time.
- The air filters may be cleaned with a vacuum cleaner or rinsed with a water jet after one month of use.
- The useful lifetime of the optional activated carbon filters is approximately 2 years and the useful lifetime of the electrostatic filters is around 3 months. The activated carbon filters may be washed with a neutral detergent, rinsed with water and left to dry in the sun.
- The useful lifetime of the Photocatalyzer filters is approximately 2 years. This type of filter may be washed under running water and reactivated with direct exposure to the sun's rays. The exposure time is 6 hours after 3 months' of use.

# CARE AND MAINTENANCE

## Operating Conditions

The temperature ranges compatible with the unit are as follows:

MODE	INDOORS	OUTDOORS
REFRIGERATION	21~32°C	21~46°C
DEHUMIDIFICATION	17~32°C	12~46°C

- When the unit is operating below or above these conditions for an extended period of time, the diagnostics system will detect a malfunction and the unit will not function properly.
- If the unit is operating under abnormal conditions for an extended period of time, or under extreme humidity, condensation may be formed inside the unit.

## Minimum Operating Time

- In normal operations, there is a minimum of 3 minutes between each shutdown and startup of the compressor.

## WARNING !!

### Operation in the event of power outages

- When an electrical power outage occurs and the unit is in operation, the operating conditions are saved and restored automatically when the electricity returns.
- The programming of the **TIMER** will be lost.
- On leaving your house during a power outage, disconnect the indoor unit to prevent it from switching itself on automatically when the power returns.

## Prevention of freezing in the indoor unit

- When the unit is operating in conditions of low ambient temperature, ice may appear on the coil of the indoor unit. When the temperature of the indoor coil is below zero degrees Celsius, the electronic control will cause the compressor to disconnect to protect the freezing unit.

## Normal operation

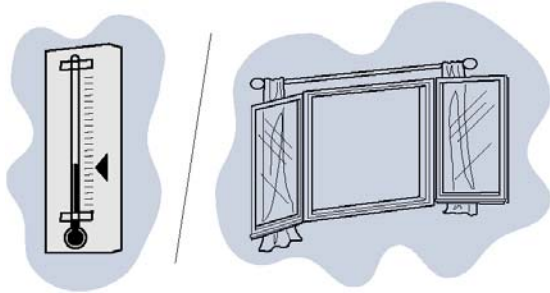
Some of these events may occur during normal operation:

- A “warbling” sound during operation or when the unit stops – This is the sound of the refrigerant gas flowing through the unit.
- Bad odors coming from the unit – Smoke or cosmetic odors which have accumulated while the room air was circulating through the unit.
- The green light on the indoor unit flashes and there is no ventilation.  
- Indicates a malfunction of the unit, and the compressor will stop operating.
- A loud noise can sometimes be heard while the unit is operating or when the unit is switched on - this is the sound of the plastic expanding due to rapid changes in temperature.

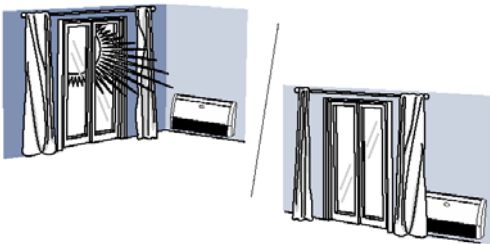
## PRACTICAL TIPS

### Optimal comfort with low consumption

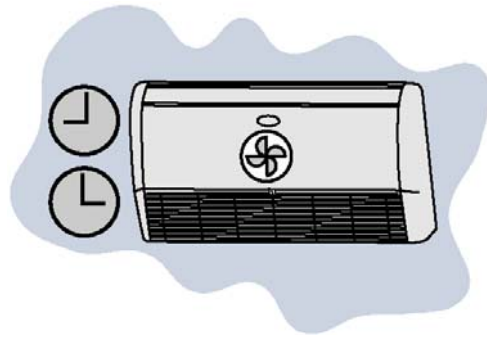
- Ensure that you maintain the temperature of your house within the comfort zone.



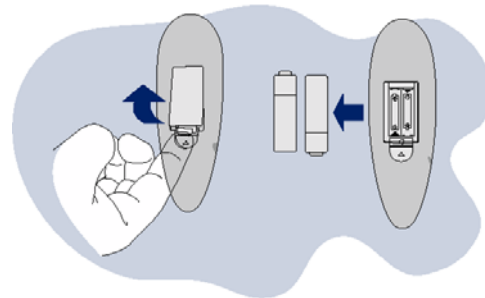
- When the unit is operating in cooling mode, prevent sunlight from entering the house. Whenever possible, close the curtains or lower the blinds.
- Do not cover the front of the unit or obstruct the air intake or discharge. An obstruction may cause a reduction in the air quantity and reduce the efficiency of the equipment, which may lead to a malfunction.



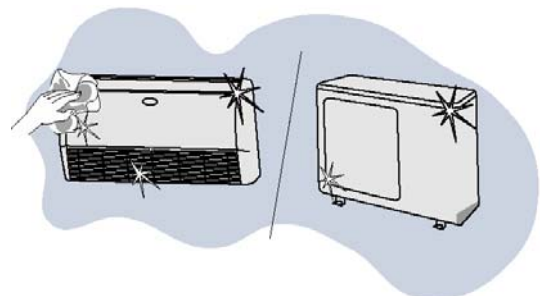
If you know that your air conditioner will not be used for an extended period of time:



- Wash and dry the filters and replace them in the unit.
- Make the unit operate in ventilation only for at least half a day to dry the inside completely

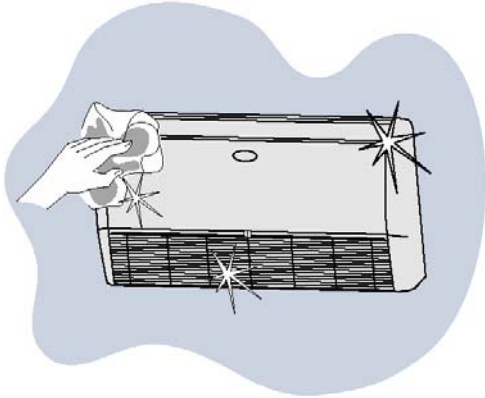


- Disconnect the main power supply switch.
- Remove the remote control batteries.
- Clean the indoor unit and the outdoor unit

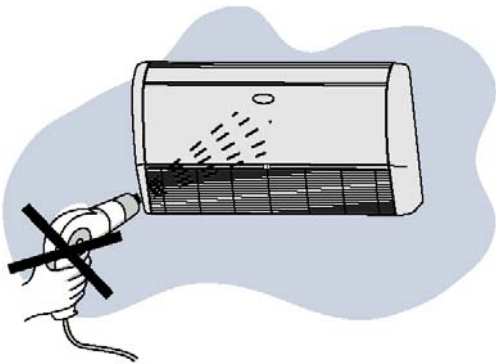




## Cleaning the Indoor Unit

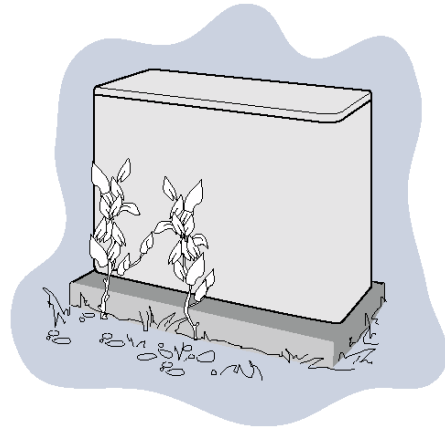


- Always disconnect the main power supply before performing any cleaning work.
- Only use a clean damp cloth and soap.
- Do not spill any liquids on the unit.
- Do not use flammable products, solvents or detergents containing abrasives: these may damage the surface coating of the unit.

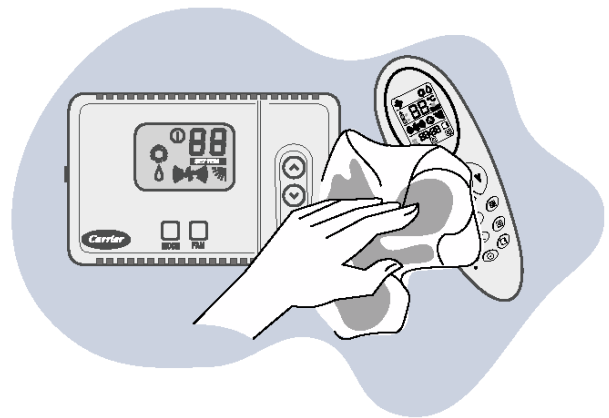


- Avoid any contact with heat sources, since hot air may damage the surface coating of the unit.

## Cleaning the Outdoor Unit



- From time to time, clean the area around the outdoor unit and remove the waste that may have accumulated and could cause a reduction in air circulation.

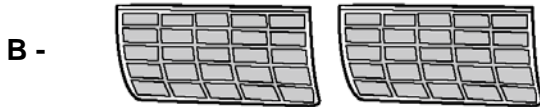
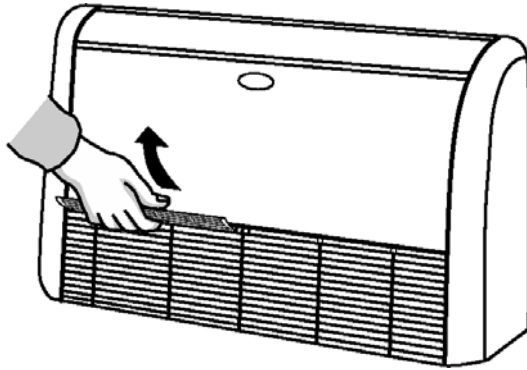


- The remote control may only be cleaned with a clean cloth.

# PRACTICAL TIPS

## Maintenance and User Guide

### Cleaning the Filters



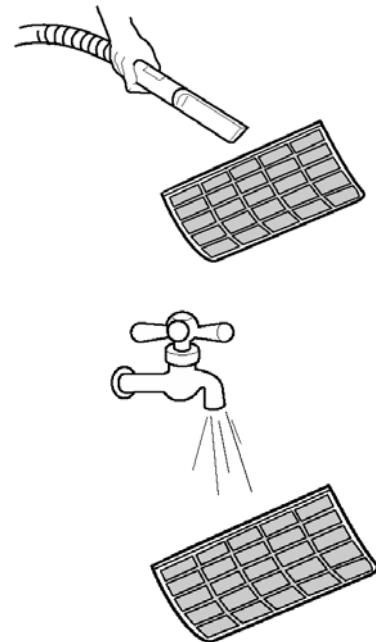
**A** - Photocatalyzer filters + Electrostatic filters (optional)

**B** - Washable cloth filters

### Cleaning washable cloth filters

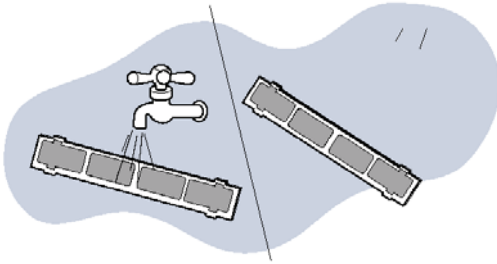
To determine how often these filters should be washed, you should take 1 month of operation as the basic length of time between washings.

- The cloth filters must be washed with water only.



- Remove the filters.
- First clean the filters with a vacuum cleaner; then wash them under running water and dry them off.
- Replace the filters in their correct position.

## Photocatalyzer Filters



- Clean these filters once every three months. Wash them with water and leave them to dry in the sun for two or three hours.
- Replace these filters after every five years approximately.

## Maintenance

After the unit has been shut down for an extended period of time and before starting it up again, perform the following:

- Inspect and clean the outdoor unit, especially the coil.
- Clean and replace the indoor unit's filters.
- Check and clean the condensate tray of the indoor unit.
- Do the same with the outdoor units on the models which possess a heat pump.
- Check the sockets of the electrical connections.

## Installer's Guide

After finishing the installation and testing, explain the main points of this Manual to the user, giving special attention to the main operating modes of the air-conditioning equipment as stated below:

- How to switch the unit on and off.
- How to change the operating mode.
- How to select the temperature.
- How to adjust the air direction deflectors to optimize the air current direction.

Leave the Installation & Start-up Instruction's manual and the Maintenance manual of the indoor and outdoor units with the owner, to be referred to in future during any maintenance operation.

 **WARNING**

DO NOT SWITCH ON/OFF FROM MAIN POWER  
ISOLATING SWITCH OR WALL MOUNTED CONTACTOR.  
USE ONLY SWITCHES ON WIRELESS OR WIRED  
REMOTE CONTROL TO AVOID DAMAGE  
TO OUTDOOR COMPRESSOR.



**Carrier International Sdn. Bhd. (3385-T)**  
Lot 4, Jalan P/6, 43650 Bandar Baru Bangi,  
Selangor, Malaysia.  
Tel: 03-8925 8001  
Fax: 03-8925 3578

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