



**AIR CONDITIONER**

## **User's Manual**

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**Fan Coil Unit**

**Model Name :**

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Floor / Ceiling Type

**42VLJ**

**42VLY**

**42VLG**

**42VLU**

**42VFS**



User Manual

**English**

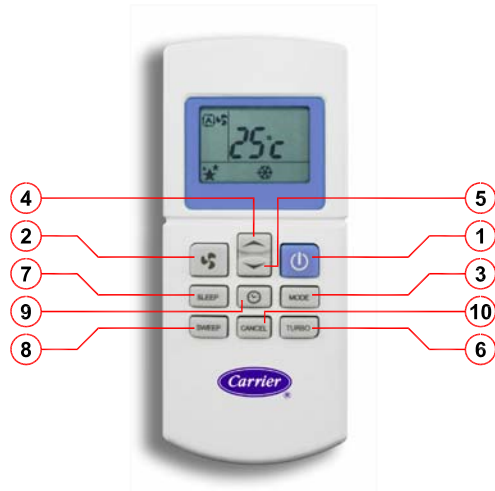
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## Safety Precautions











### Caution

- Read the operation and maintenance manual carefully before using the air conditioner. There are many important things to keep in mind during daily use.
- Do not use any refrigerant that is different from what is indicated on the label for supplyment or replacement. Otherwise it may cause abnormal high pressure to build up in the cooling cycle which could cause an operation failure or an explosion or personal injury.
- Ask the installer about the the circuit breaker switch position if there is any problem with the unit. Turn the breaker switch to the OFF position and contact the service.
- Only use accessories and installation parts must be as described. Otherwise it may result in water leak, electrical shock or a fire.
- Before opening the intake grille of the indoor unit or service panel of the outdoor unit,turn the circuit breaker to the OFF position. Otherwise a short circuit may occur or you may get injure from touching the rotating parts. Only a qualified installer or qualified service person is allowed to this work.
- Do not move the unit by yourself due to the high voltage inside the unit you may get an electric shock while removing the cover.
- Do not touch the aluminum heatsinks inside the unit as this may cause injury.
- Do not expose the body to direct cold air for a long time and do not expose the body to too much cold as it can cause physical decline and illness.
- Consult your dealer that have you purchased the air conditioner if the unit does not cool properly it may be caused by a refrigerant leak. Be sure to double check with maintenance service when they charge refrigerant costs.
- Before cleaning the unit you should turn off the unit and cut off power supply otherwise you may get injure from touching the rotating parts. If there is any problems (e.g. display error, burning smell, unusual sound, water leak...) in the air conditioner. Do not touch the unit by yourself, you should cut off power supply and call maintenance service to check. If you still use the unit in problematic conditions it may damage the unit operating mechanism or electric shock or other problems.
- Do not customize the unit by yourself as this could result in a fire, electric shock or other problems.
- When relocating the unit do not it by yourself, contact the installer or a qualified service. Improper relocation can cause electric shock and/ or a fire.

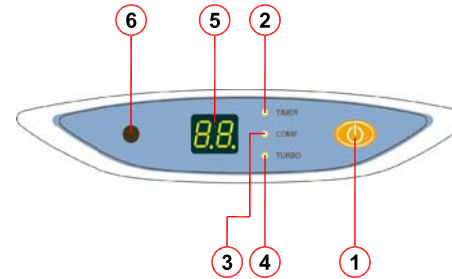
## Wireless remote







The wireless remote has 10 buttons by follows:

- ①  POWER: Press to turn on/off the air conditioner.
- ②  FAN: Press to adjust fan speed.
- ③  MODE: Press to select operation mode. FAN->COOL->DRY.
- ④  UP: Press to increase set point temperature or TIMER.
- ⑤  DOWN: Press to decrease set point temperature or TIMER.
- ⑥  TURBO: Press to operate turbo function, press again to cancel.
- ⑦  SLEEP: Press to operate sleep function, press again to cancel.
- ⑧  SWEEP: Press to operate sweep function, press again to cancel.
- ⑨  CLOCK/TIMER: Press to set time function and turn on/off TIMER.
- ⑩  CANCEL: Press to cancel TIMER.

## Receiver display




The wireless remote has 10 buttons by follows:

- ①  POWER button on the display is only used to turn on/off the air conditioner in case of emergency (in the absence of wireless remote) the unit will operate at 24°C and the fan will be in automatic mode.
- ②  TIMER: show the status of TIMER operation (turn on/off the power).  
The TIMER led will light up.
- ③  COMP: show the status of COMPRESSOR operation.  
The COMP led will light up.
- ④  TURBO: show the status of TURBO operation.  
The TURBO led will light up.
- ⑤ Digits show temperature
  1. Show room temperature
  2. Show the set temperature when it is set by the user.
- ⑥ Remote control receiver position


## How to use controller

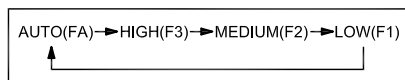
- When the air conditioner receives a correct signal from the remote control, a "peep" sound will sound.
- When the signal from the remote control is blocked by an obstruction, the command will not respond.
- If you press 2 buttons at the same time, the operation may fail.

### ① POWER

Press  to turn on/off air conditioner. It will run according to the last program which is set on the remote and display the room temperature in °C.

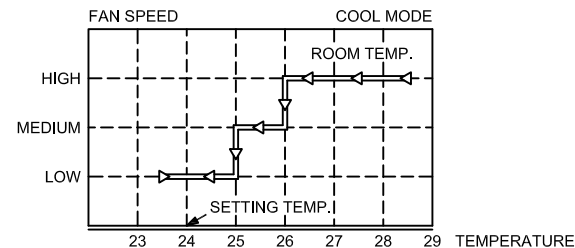
### ② FAN

Press  to adjust fan speed in the following sequence :





#### Auto fan

- If the difference is  $\geq 3^{\circ}\text{C}$ , the fan will operate at high speed.
- If the difference is  $2^{\circ}\text{C}$ , the fan will operate at medium speed.
- If the difference is  $\leq 1^{\circ}\text{C}$ , the fan will operate at at low speed.



### ③ MODE

Press  to select operation mode. FAN->COOL->DRY.


- FAN MODE : The unit will operate fan only and display show fan status. Can not set  and .
- COOL MODE : Display show cool status and operate.
  - Compressor will start when room temperature higher than set point +  $1^{\circ}\text{C}$ .
  - Compressor will stop when room temperature  $\leq$  set point and need 3 minutes delay for starting run again.
- DRY MODE : Display show dry status (Select this mode when you want to reduce the humidity in the room).

### ④ ⑤ TEMPERATURE SETTING

Press  /  to adjust room temperature (Setting range  $18\text{-}30^{\circ}\text{C}$ ).

## ⑥ TURBO

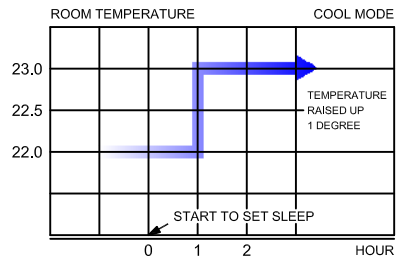
Press **TURBO** display show turbo status and operate at maximum fan speed.

- Cancel by press **TURBO** again or press 
- When cancel turbo function, fan speed will come to previous setting.
- When operate at DRY MODE, Turbo function will cannot operate.

## ⑦ SLEEP

Press **SLEEP** display show symbol 

- Setting temperature will increase 1°C in every 1 hour by automatically.




- Cancel SLEEP function by press **SLEEP** again.
- When operate in sleep mode, if temperature is adjusted, temperature will increase or decrease 1°C different from last temperature.
- Sleep mode will cancel by automatically when turn off or black out.






## ⑧ SWEEP

Press **SWEEP** then louver will swing for air distribution, press again for cancel. The louver will turn on/off automatically when the unit is turned on/off.





## ⑨ CLOCK/TIMER

Press  to set the time at remote or set timer on-off by

### Set CLOCK



- Press  then the symbol  on remote will blink.
- Press  /  to set the time.
- Press  again to confirm. Wait about 10 seconds then display will show main menu.

**Set TIMER**, can set timer 24 hours in advance

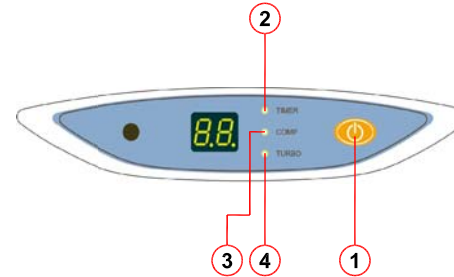
- Press  and hold when symbol ON or OFF show blink.
- Press  /  to set the time.
- Press  again to confirm. Wait about 10 seconds then display will show main menu.

⑩  **CANCEL**

Press to  previous setting

- Press  and hold when symbol ON or OFF blink and disappear.
- Press  then symbol ON or OFF will close.

**How to turn on/off the air conditioner in case of the remote loss and error light show up**



①  **EMERGENCY BUTTON**

- Emergency button on the display is used to turn on/off the unit in case of the remote loss.
- The unit will operate at the set temperature of 24°C and the fan is in automatic mode.
- When you press this button it will deactivate the timer and sleep function automatically.
- When you press this button it will deactivate the turbo function and the fan is in automatic mode.

② ○ **TIMER LED**

TIMER led on the display will blink when there is a lack of power/ a short circuit at ROOM SENSOR.

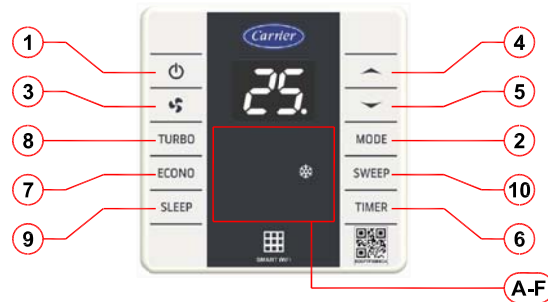
③ ○ **COMP LED**

COMP led on the display will blink when there is a lack of power/ a short circuit at SENSOR FREEZE.

④ ○ **TURBO LED**

TURBO led on the display will blink when there is a FREEZE.

## Wire remote



### The wire remote has 10 buttons by follows:

- ① POWER: Press to turn on/off the air conditioner.
- ② MODE: Press to select operation mode. FAN->COOL->DRY.
- ③ FAN: Press to adjust fan speed (AUTO->HIGHT->MEDIUM->LOW MODE).
- ④ UP: Press to increase set point temperature or TIMER.
- ⑤ DOWN: Press to decrease set point temperature or TIMER.
- ⑥ TIMER: Press to set time function and turn on/off TIMER.
- ⑦ ECONO: Press to operate econo function, press again to cancel.
- ⑧ TURBO: Press to operate turbo function, press again to cancel.
- ⑨ SLEEP: Press to operate sleep function, press again to cancel.

- ⑩ SWEEP: Press to operate sweep function, press again to cancel.

### Indicator light: there are 6 LEDs divided into:

- (A) FAN LED: show status of FAN operation.
- (B) COOL LED: show status of COOL MODE or DRY MODE.
- (C) TIMER LED: show status of TIMER operation.
- (D) ECONO LED: show status of ECONO MODE.
- (E) TURBO LED: show status of TURBO operation.
- (F) SLEEP LED: Show the status of setting automatic temperature while sleeping.



LED 7-SEGMENT: show room temperature and show SETTING TEMPERATURE / FAN SPEED/TIMER when user set. (Decimal point show status of compressor operation)

① **POWER**

Press **POWER** button (when power off) then air conditioner will run according to the last program which is set on the remote and display the room temperature in °C. When the unit is off the display shows nothing except **TIMER** (if it is set).

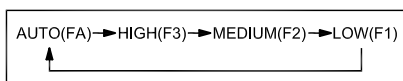
② **MODE**

Press **MODE** to select operation mode (FAN and COOL MODE)

- FAN MODE: The unit will operate fan only and the display show fan status.
- COOL MODE: The unit will operate in cool mode as follows:
  - Compressor will start when room temperature higher than set point > 1°C
  - Compressor will stop when room temperature ≤ set point and need 3 minutes delay for starting run again.

③ **FAN**

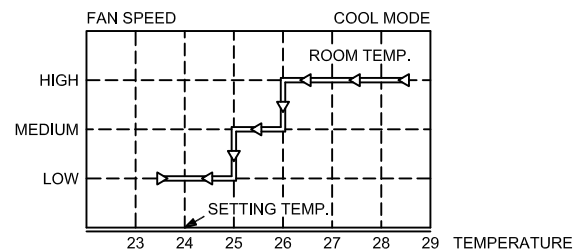
Press **FAN** button (only in FAN MODE and COOL MODE) to adjust fan speed in the following sequence:



When the unit operate in FAN MODE and COOL MODE, the FAN AUTO will operates as follows:

- If the difference is ≥ 3°C, the fan will operate at high speed.

- If the difference is 2°C, the fan will operate at medium speed.
- If the difference is ≤ 1°C, the fan will operate at low speed.



④ **TEMPERATURE SETTING**

Press **TEMPERATURE SETTING** to adjust room temperature (Setting range 18-30°C)

⑥ **TIMER**

Press **TIMER** button to set the time turn on/off power.

**How to set TIMER**

- Press **TIMER** button when the **TIMER** led is off to set **TIMER** (press this button when power off to set time to turn on and vice versa).
- Press **TEMPERATURE SETTING** to set the time.
- Wait about 5 seconds then display will show main menu.

**How to cancel TIMER**

- Press **TIMER** button again to cancel.

⑦ **ECONO**

Press **ECONO** button when the unit operate in COOL MODE to set



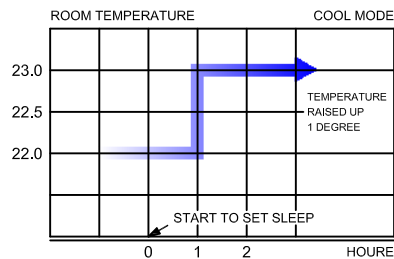
ECONO function then ECONO led on the display will be displayed and the system will operate in the energy saving mode (The unit will operate at 25°C and AUTO FAN). Press **ECONO** button again to cancel.

### ⑧ **TURBO TURBO**

Press **TURBO** button when the unit operate in FAN MODE or COOL MODE to turn on TURBO function then TURBO led will be displayed and the fan will operate at a special speed (TURBO SPEED). Press **TURBO** button again to cancel TURBO function or press **FAN** button to adjust fan speed.

### ⑨ **SLEEP SLEEP**

Press **SLEEP** button (in COOL MODE only) to turn on SLEEP function. The system will control temperature while we are sleeping. In COOL MODE the temperature will increase 1°C after we have slept for 1 hour then unit is back to normal operation and the SLEEP symbol disappeared.






- Press **SLEEP** button again to cancel.
- In SLEEP FUNCTION if you adjust temperature, SLEEP will operate according the last temperature.
- In SLEEP FUNCTION if you change another mode, SLEEP will be canceled.
- In SLEEP FUNCTION if the unit stops working (short circuit or on/off power) SLEEP will be canceled.






### ⑩ **SWEEP SWEEP**

Press **SWEEP** then louver will swing for air distribution, press again for cancel. The louver will turn on/off automatically when the unit is turned on/off.

### Alarm indication when there is a crash

-  **TIMER LED** will blink when there is a lack of power/a short circuit at ROOM SENSOR and Led 7 segment will shows E8
-  **ECONO LED** will blink when there is a lack of power/a short circuit at SENSOR FREEZE and Led 7 segment will shows E9
-  **TURBO LED** will blink when there is a FREEZE and Led 7 segment will shows E1

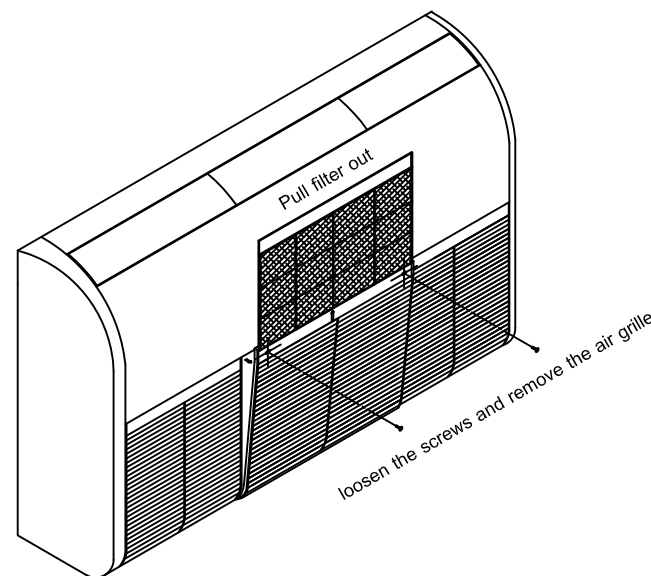
### More detail

- In the control system when there is an error due to the computer system which may be caused by unstable voltage or interference, the system will prompt the computer to restart (RESET) immediately.
- In case of power failure when the power returns to normal operation, the system will run according to the last program which is set including swing value and without remembering SLEEP and TIMER values. If any value has changed it must be stored in memory for at least 5 seconds before the power failure occurs when the power returns the system will run according to the values in memory.
- In the case of compressor stops working there must always be 3 minutes delay before resuming again and in case of disconnecting the power supply system and then re-supplying the power there must be 3-4 minutes delay in compressor operation at random.
- In the case of compressor starts to work it must work for at least 24 seconds before it can stop even change mode or turn off power.
- The brightness of LED and 7-SEGMENT can be adjusted by pressing and holding button SLEEP and  for 5 seconds. Press again to back normal. The adjustments are memorized in the air conditioner.
- WIFI ENABLE/DISABLE: Press and hold button  and  to set wifi enable or disable.
- The minimum temperature that can be set to 21 °C by pressing and holding button  and  for 5 seconds. Press again for cancel.

### Maintenance

When using the air conditioner for a certain distance, the air conditioner may produce less cooling, it should be maintained as follows.

- Turn off the main power switch to cut off the power to the unit.
- Remove the air filter and clean it with soap or detergent, rinse with clean water and dry under the sun at least once a month.



- Cooling coil cleaning can be done by using a sponge with liquid soap to rub over the fan coil and brush it with a soft metal brush. (Only trained and certified technicians do this work)

### Crash check

Please check the following items before calling maintenance service.  
Because you may be able to fix it. If after checked still malfunction please shut off air conditioner and consult with your distributor.

Malfunction	Preliminary Checking
Air conditioner not working	>Check wires that missing or not. >Check the electric current crash or not. >Check remote control that set up time correct or not.
Cooling capacity drop	>Check Temp. set up suitable or not. >Check that the sunlight in the room directly or not. >Check the door and windows it open or not. >Check condensing unit and fan coil unit that there are anything to block the air flow or not. >Check that there are too many heat source in the room or not. >Check the ventilator is working or not. >Check the air filter that dirty or not.
There are vapor or smoke out of air conditioner while working	>Cause may be from heat in the room react with the cold out of air conditioner.
Remote control not working	>Battery expired. >Check pole of battery that put it right or not.

**Note :**

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