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MULTI V™ System
Heat Pump Indoor Unit
OWNER'S MANUAL

Models: CRNN-TE/TD Series
Type: Ceiling Mounted Cassette - 4Way

Prior to installation, this air-conditioning unit must be submitted for approval by the utility service which provides electricity (EN 61000-2, EN 61000-3 Norm).



- Please read this owner's manual carefully and thoroughly before installing and operating your room air conditioner.
- Please retain this owner's manual for future reference after reading it thoroughly.

FOR YOUR RECORDS

Write the model and serial numbers here:

Model #

Serial #

You can find them on a label on the side of each unit.

Dealer's Name

Date Purchased

■ Staple your receipt to this page in the event you need to prove date of purchase or to issue warranty.

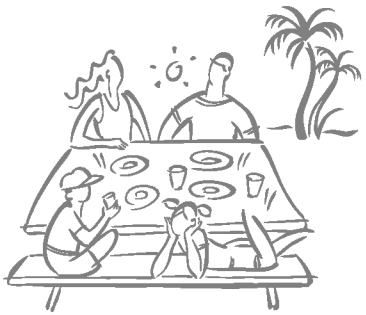
READ THIS MANUAL

Inside you will find many helpful hints on how to use and maintain your air conditioner properly. Just a little preventive care on your part can save you a great deal of time and money over the life of your air conditioner.

You'll find many answers to common problems in the chart of troubleshooting tips. If you review our chart of **Troubleshooting Tips** first, you may not need to call for service at all.

PRECAUTION

- **Contact the authorized service technician for repair or maintenance of this unit.**
- **Contact the installer for installation of this unit.**
- **The air conditioner is not intended for use by young children or invalids without supervision.**
- **Young children should be supervised to ensure that they do not play with the air conditioner.**
- **When the power cord is to be replaced, replacement work shall be performed by authorized personnel only using only genuine replacement parts.**
- **Installation work must be performed in accordance with the National Electric Code by qualified and authorized personnel only.**



To prevent injury to the user or other people and property damage, the following instructions must be followed.

■ Incorrect operation due to ignoring instruction will cause harm or damage. The seriousness is classified by the following indications.

⚠WARNING	This symbol indicates the possibility of death or serious injury.
⚠CAUTION	This symbol indicates the possibility of injury or damage to properties only.

■ Meanings of symbols used in this manual are as shown below.

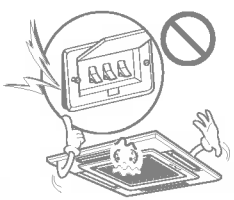
⃠	**Be sure not to do.**
❗	**Be sure to follow the instruction.**

⚠WARNING

■ Installation

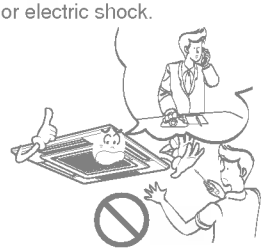
Do not use a defective or underrated circuit breaker. Use this appliance on a dedicated circuit.

- There is risk of fire or electric shock.

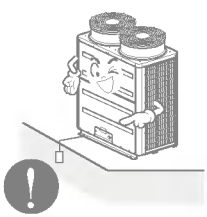


For electrical work, contact the dealer, seller, a qualified electrician, or an Authorized Service Center.

- Do not disassemble or repair the product. There is risk of fire or electric shock.

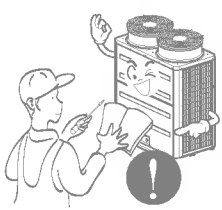


- There is risk of fire or electric shock.



Install the panel and the cover of control box securely.

- There is risk of fire or electric shock.



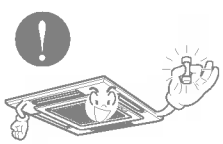
Always install a dedicated circuit and breaker.

- Improper wiring or installation may cause fire or electric shock



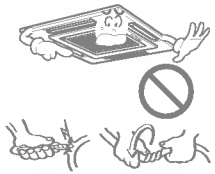
Use the correctly rated breaker or fuse.

- There is risk of fire or electric shock.



Do not modify or extend the power cable.

- There is risk of fire or electric shock.



Do not install, remove, or re-install the unit by yourself (customer).

- There is risk of fire, electric shock, explosion, or injury.



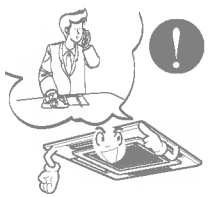
Be cautious when unpacking and installing the product.

- Sharp edges could cause injury. Be especially careful of the case edges and the fins on the condenser and evaporator.



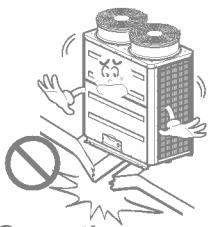
For installation, always contact the dealer or an Authorized Service Center.

- There is risk of fire, electric shock, explosion, or injury.



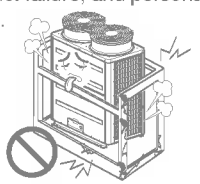
Do not install the product on a defective installation stand.

- It may cause injury, accident, or damage to the product.



Be sure the installation area does not deteriorate with age.

- If the base collapses, the air conditioner could fall with it, causing property damage, product failure, and personal injury.



■ Operation

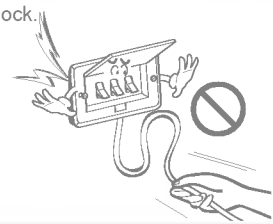
Do not let the air conditioner run for a long time when the humidity is very high and a door or a window is left open.

- Moisture may condense and wet or damage furniture.



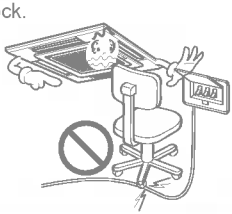
Take care to ensure that power cable could not be pulled out or damaged during operation.

- There is risk of fire or electric shock.



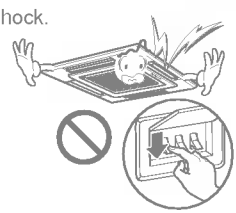
Do not place anything on the power cable.

- There is risk of fire or electric shock.



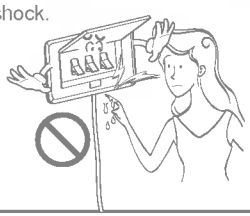
Do not plug or unplug the power supply plug during operation.

- There is risk of fire or electric shock.



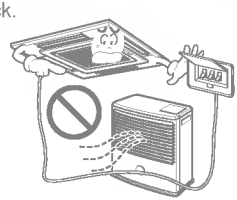
Do not touch(operate) the product with wet hands.

- There is risk of fire or electrical shock.



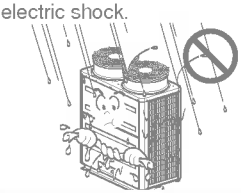
Do not place a heater or other appliances near the power cable.

- There is risk of fire and electric shock.



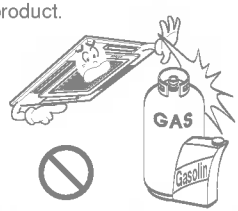
Do not allow water to run into electric parts.

• It may cause There is risk of fire, failure of the product, or electric shock.



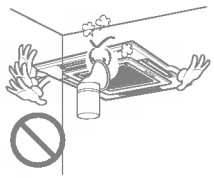
Do not store or use flammable gas or combustibles near the product.

• There is risk of fire or failure of product.



Do not use the product in a tightly closed space for a long time.

• Oxygen deficiency could occur.



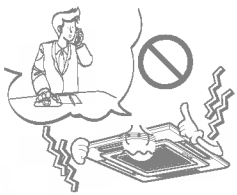
When flammable gas leaks, turn off the gas and open a window for ventilation before turn the product on.

• Do not use the telephone or turn switches on or off. There is risk of explosion or fire



If strange sounds, or small or smoke comes from product. Turn the breaker off or disconnect the power supply cable.

• There is risk of electric shock or fire.



Stop operation and close the window in storm or hurricane. If possible, remove the product from the window before the hurricane arrives.

• There is risk of property damage, failure of product, or electric shock.



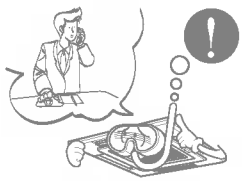
Do not open the inlet grill of the product during operation. (Do not touch the electrostatic filter, if the unit is so equipped.)

• There is risk of physical injury, electric shock, or product failure.



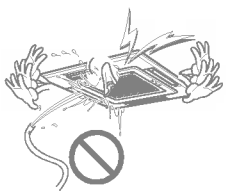
When the product is soaked (flooded or submerged), contact an Authorized Service Center.

• There is risk of fire or electric shock.



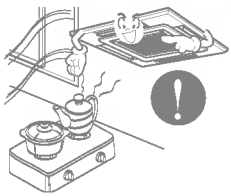
Be cautious that water could not enter the product.

• There is risk of fire, electric shock, or product damage.



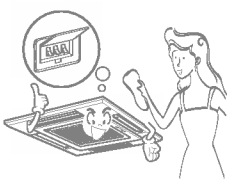
Ventilate the product from time to time when operating it together with a stove, etc.

• There is risk of fire or electric shock.



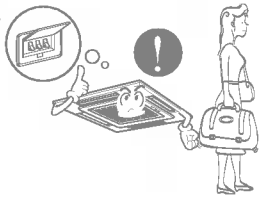
Turn the main power off when cleaning or maintaining the product.

• There is risk of electric shock.



When the product is not be used for a long time, disconnect the power supply plug or turn off the breaker.

- There is risk of product damage or failure, or unintended operation.



Take care to ensure that nobody could step on or fall onto the outdoor unit.

- This could result in personal injury and product damage.

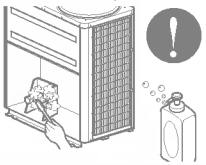


⚠CAUTION

■ Installation

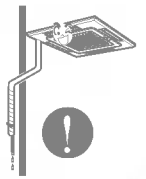
Always check for gas (refrigerant) leakage after installation or repair of product.

- Low refrigerant levels may cause failure of product.



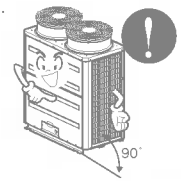
Install the drain hose to ensure that water is drained away properly.

- A bad connection may cause water leakage.



Keep level even when installing the product.

- To avoid vibration or water leakage.



Do not install the product where the noise or hot air from the outdoor unit could damage the neighborhoods.

- It may cause a problem for your neighbors.



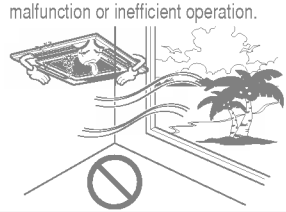
Use two or more people to lift and transport the product.

- Avoid personal injury.



Do not install the product where it will be exposed to sea wind (salt spray) directly.

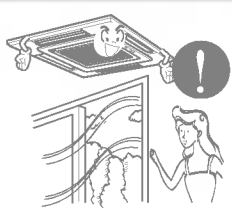
- It may cause corrosion on the product. Corrosion, particularly on the condenser and evaporator fins, could cause product malfunction or inefficient operation.



■ Operation

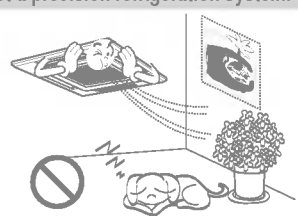
Do not expose the skin directly to cool air for long periods of time. (Don't sit in the draft.)

- This could harm to your health.



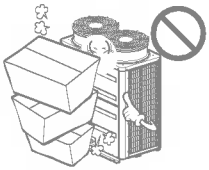
Do not use the product for special purposes, such as preserving foods, works of art, etc. It is a consumer air conditioner, not a precision refrigeration system.

- There is risk of damage or loss of property.



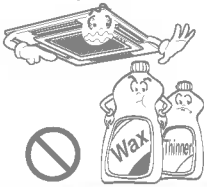
Do not block the inlet or outlet of air flow.

• It may cause product failure.



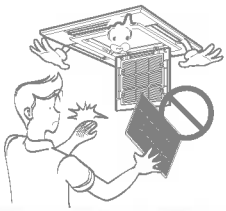
Use a soft cloth to clean. Do not use harsh detergents, solvents, etc.

• There is risk of fire, electric shock, or damage to the plastic parts of the product.



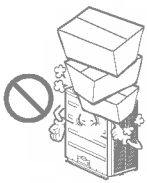
Do not touch the metal parts of the product when removing the air filter. They are very sharp!

• There is risk of personal injury.



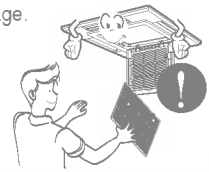
Do not step on or put anyting on the product. (outdoor units)

• There is risk of personal injury and failure of product.



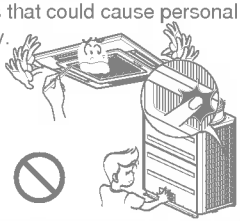
Always insert the filter securely. Clean the filter every two weeks or more often if necessary.

• A dirty filter reduces the efficiency of the air conditioner and could cause product malfunction or damage.



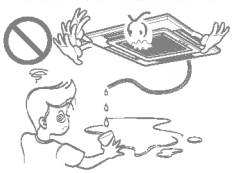
Do not insert hands or other objects through the air inlet or outlet while the product is operated.

• There are sharp and moving parts that could cause personal injury.



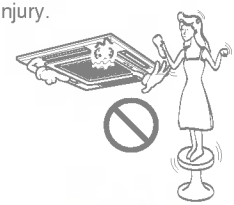
Do not drink the water drained from the product.

• It is not sanitary and could cause serious health issues.



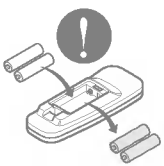
Use a firm stool or ladder when cleaning or maintaining the product.

• Be careful and avoid personal injury.



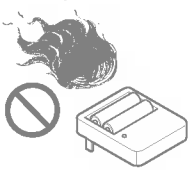
Replace the all batteries in the remote control with new ones of the same type. Do not mix old and new batteries or different types of batteries.

• There is risk of fire or explosion



Do not recharge or disassemble the batteries. Do not dispose of batteries in a fire.

• They may burn or explode.



If the liquid from the batteries gets onto your skin or clothes, wash it well with clean water. Do not use the remote if the batteries have leaked.

• The chemicals in batteries could cause burns or other health hazards.



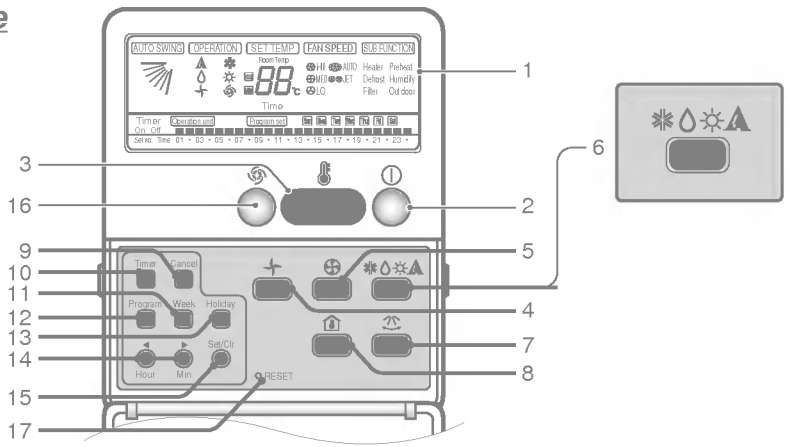
1. Contact an installation specialist for installation.
2. Use a dedicated circuit.

1. Being exposed to direct airflow for an extended period of time could be hazardous to your health. Do not expose occupants, pets, or plants to direct airflow for extended periods of time.
2. Due to the possibility of oxygen deficiency, ventilate the room when used together with stoves or other heating devices.
3. Do not use this air conditioner for non-specified special purposes (e.g. preserving precision devices, food, pets, plants, and art objects). Such usage could damage the items.

1. Do not touch the metal parts of the unit when removing the filter. Injuries can occur when handling sharp metal edges.
2. Do not use water to clean inside the air conditioner. Exposure to water can destroy the insulation, leading to possible electric shock.
3. When cleaning the unit, first make sure that the power and breaker are turned off. The fan rotates at a very high speed during operation. There is a possibility of injury if the unit's power is accidentally triggered on while cleaning inner parts of the unit.

For repair and maintenance, contact your authorized service dealer.

Wired Type



1. Operation display
Displays the operation conditions.

2. On/Off Button
Operation starts when this button is pressed, and stops when the button is pressed again.

3. Set Temperature Button
Used to set the temperature when the desired temperature is obtained.

4. FAN Operation Button
Used to circulate room air without cooling or heating.

5. Fan Speed Button
Used to set the desired fan speed.

6. Operation Mode Selection Button
Used to select the operation mode.
- Auto Operation Mode
- Cooling Operation Mode
- Soft Dry Operation Mode
- Heating Operation Mode(except cooling model)

7. Auto Swing Button
Used to swing up and down.

8. Room Temperature Checking Button
Used to check the room temperature.

9. Timer Cancel Button
Used to cancel the timer.

10. Timer Set Button
Used to set the timer when the desired time is obtained.

11. Week Button
Used to set a day of the week.

12. Program Button
Used to set the weekly timer.

13. Holiday Button
Used to set a holiday of the week.

14. Time Set Button
Used to set the time of the day and change the time in the weekly timer Function.

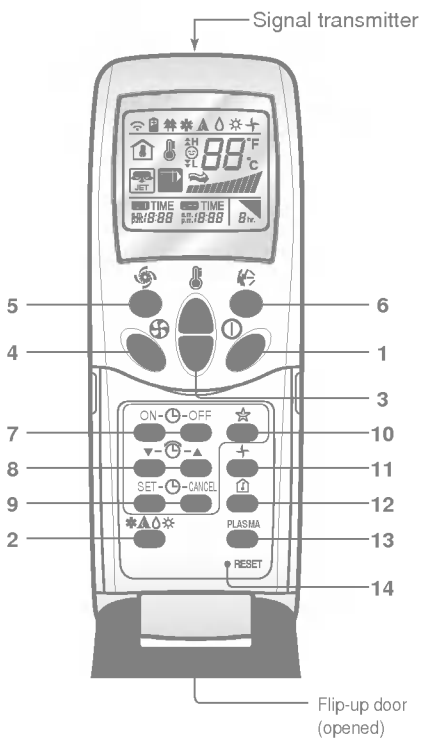
15. Set and Clear Button
Used to set and clear the weekly timer.

16. Jet Cool Button
Used to select jet cool mode.

17. Reset Button
Used to set the current time and clear the setting time.

Wireless Type(Option)

This air-conditioner is equipped with wired remote controller basically. But if you want to be available with wireless remote controller, you pay for it.



1. **START/STOP BUTTON**
   Operation starts when this button is pressed and stops when the button is pressed again.
2. **OPERATION MODE SELECTION BUTTON**
   Used to select the operation mode.
3. **ROOM TEMPERATURE SETTING BUTTONS**
   Used to select the room temperature.
4. **INDOOR FAN SPEED SELECTOR**
   Used to select fan speed in four steps low, medium, high and CHAOS.
5. **JET COOL**
   Used to start or stop the speed cooling. (Speed cooling operates super high fan speed in cooling mode.)
6. **CHAOS SWING BUTTON**
   Used to stop or start louver movement and set the desired up/down airflow direction.
7. **ON/OFF TIMER BUTTONS**
   Used to set the time of starting and stopping operation.
8. **TIME SETTING BUTTONS**
   Used to adjust the time.
9. **TIMER SET/CANCEL BUTTONS**
   Used to set the timer when the desired time is obtained and to cancel the Timer operation.
10. **SLEEP MODE AUTO BUTTON**
    Used to set Sleep Mode Auto operation.
11. **AIR CIRCULATION BUTTON**
    Used to circulate the room air without cooling or heating.
12. **ROOM TEMPERATURE CHECKING BUTTON**
    Used to check the room temperature.
13. **PLASMA BUTTON**
    This function is not available.
14. **RESET BUTTON**
    Used prior to resetting time or after replacing batteries.

CAUTION
Handling the Remote Controller

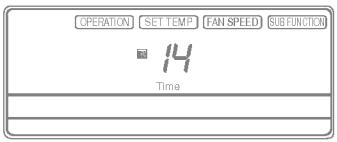
- **Aim at the signal receptor on the front panel of indoor unit so as to operate.**
- **The remote control signal can be received at a distance of up to about 7m.**
- **Be sure that there are no obstructions between the remote control and the signal receptor.**
- **Do not drop or throw the remote controller.**
- **Do not place the remote controller in a location exposed to direct sunlight, or near the heating unit, or any other heat source.**
- **Block a strong light over the signal receptor with a curtain or etc. so as to prevent the abnormal operation. (ex:electronic quick start, ELBA, inverter type fluorescent lamp)**

Set the Current Time and a day of the Week

1 Press the ' Hour ' button.

Each time the button is pressed, the number is changed from 0 0 to 2 3.
You can set the number of the current hour.

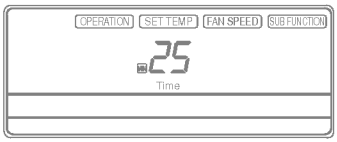




2 Press the ' Min ' button.

Each time the button is pressed, the number is increased from 0 0 to 5 9.
You can set the number of the current minute.





3 Press ' Week ' button.

Each time the button is pressed, a day of the week is shifted from Sunday to Saturday.
You can set the day of the week.

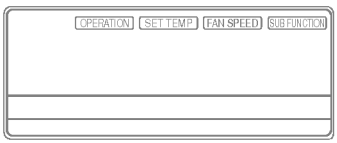




4 Press the ' ● RESET ' button.

If you want to reset the current time and a day of the week, click the Reset button.



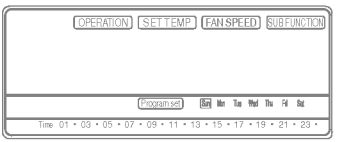


Weekly Programming

1 Press the Program button.

The remote controller is displayed like a picture. Then ' Program set ', ' Sun ' and '01' is blinked.



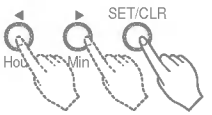


2 Press the ' Week ' button.

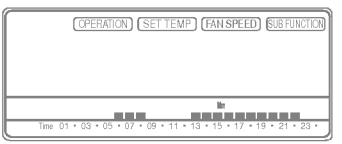
Select Monday.



3 Change the timer setting until the desired time is set.
After you select a time, push the SET/CLR button once or one more time.



For example, if the air-conditioner is turned on from 6 to 8 and from 13 to 22 and turned off at other time on Monday, display is as follows. (black bar indicates turn-on, white bar indicates turn-off.)



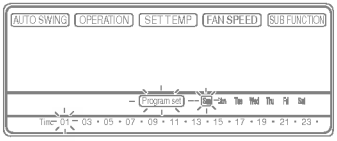
4 You can set turn on and turn off time by the day in a week as above.

Holiday Setting

If Tuesday is a holiday in this week, you may set a holiday.

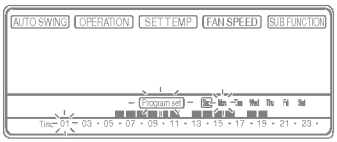
1 Press the Program button.





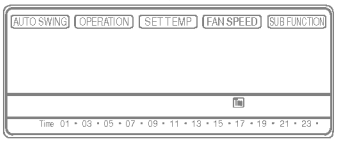
2 Press the Week button.
Select the Tuesday.





3 Press the Holiday button.



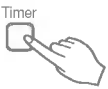


Then the remote controller will be displayed ' Tue '.
The outside rectangular means holiday.

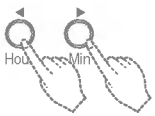
Timer Setting(Delay start/Pre-set stop)

This function is used to turn on or turn off in several hours.

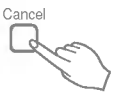
1 Press the Timer button
to turn Timer on or off.



2 Change the timer setting until the desired time is set.



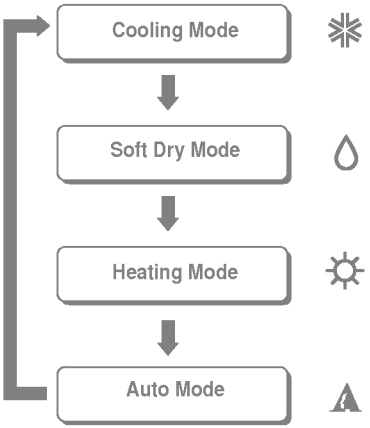
3 If you want to cancel the timer setting, press the Cancel button.



Self-diagnosis Function

'CH' will flash in the remote controller display when a problem occurs.
Then please contact your dealer.

Operation Mode



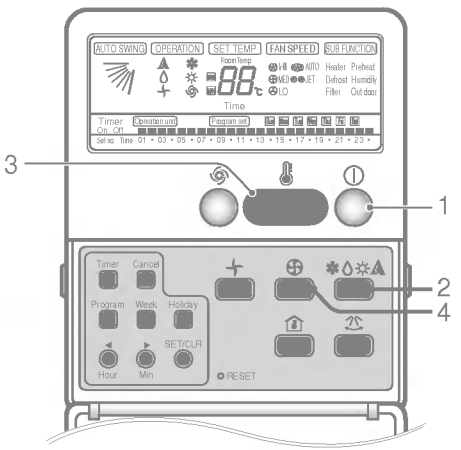
Operation Procedure

1st On/Off Button

2nd Operation Mode Selection Button

3rd Room Temperature Setting Button

4th Indoor Fan Speed Selection Button



Cooling Operation Mode

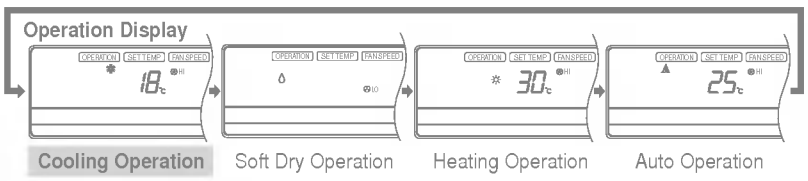
1 Press the On/Off Button.



2 Select Cooling Operation.

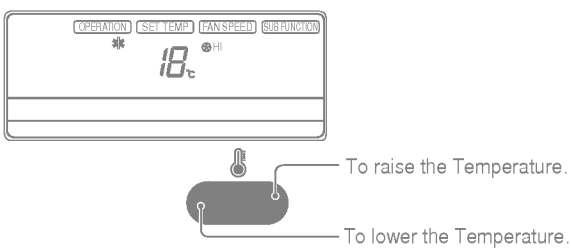
Press the Operation Mode Selection Button.
Each time the button is pressed, the operation mode is shifted in the arrow direction.





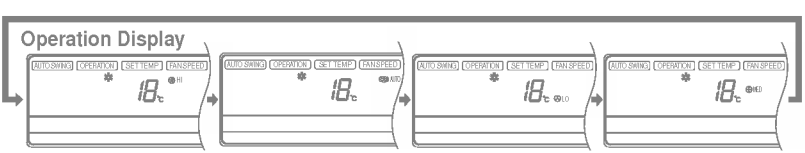
3 Set the temperature lower than the room temperature.

- The temperature can be set within a range of 18℃ ~ 30℃ by 1℃ .



4 Set the fan speed.





- Select the fan speed in four steps-high, Auto, low, medium.
- The display shows high fan speed.
- Each time the button is pressed, the fan speed mode is shifted.

Soft Dry Operation Mode

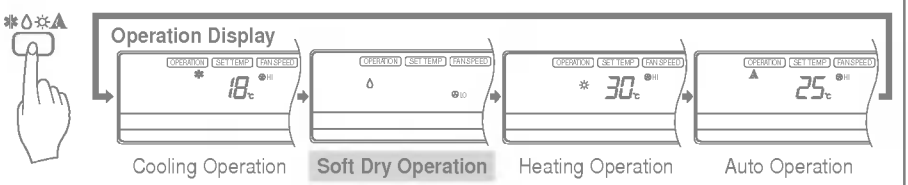
This mode dehumidifies without overcooling.

1 Press the On/Off Button.



2 Select Soft Dry Operation.

Press the operation Mode Selection Button.
Each time the button is pressed, the operation mode is shifted in the arrow direction.



3 During Dry Operation.

- The indoor fan speed is automatically set to the low, so the shift of the indoor fan speed is impossible because of already being set to the best speed for Dry Operation by Micom Control.

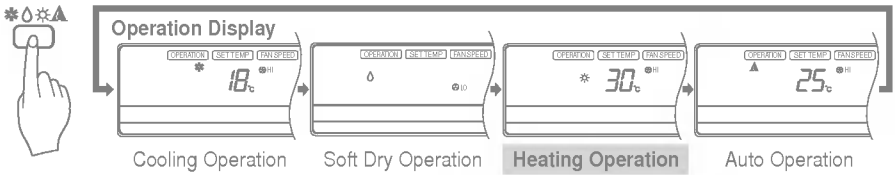
Heating Operation Mode

1 Press the On/Off Button.

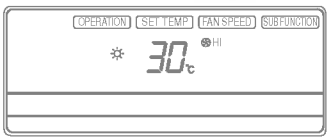


2 Select Heating Operation.

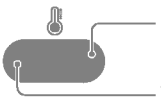
Press the Operation Mode Selection Button.
Each time the button is pressed, the operation mode is shifted in the arrow direction.



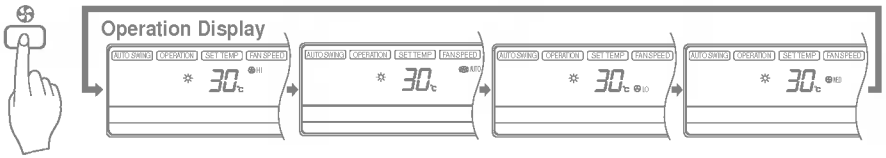
3 Set the temperature.



- The temperature can be set within a range of 16℃~30℃ by 1℃.

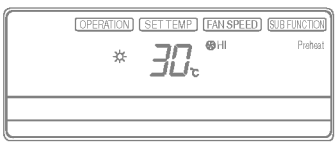


4 Set the fan speed.

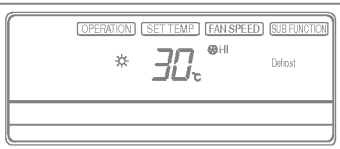


- Select the fan speed in four steps-high, Auto, low, medium.
- The display shows high fan speed
- Each time the button is pressed, the fan speed mode is shifted.

5 This air-conditioner is set to the hot start control in order not to discharge the cold air during the heating operation. This time, the remote controller indicates 'Preheat'.



6 If the outdoor temperature is too low during the heating operation, this air-conditioner is set to the defrosting operation and the remote controller indicates 'Defrost'.



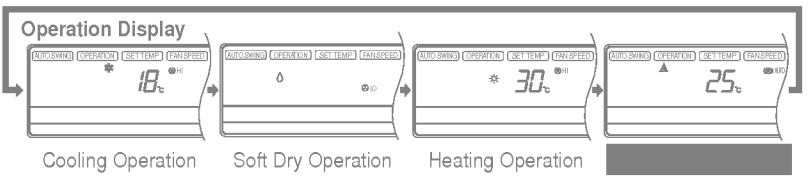
Auto Operation Mode

1 Press the On/Off Button.

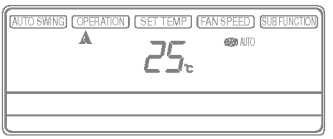


2 To select **Auto Operation**, press the Operation Mode Selection button.
Each time the button is pressed, the operation mode is shifted in the direction of the arrow.

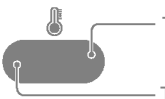




3 The setting temperature can be changed, when the set temperature button is pressed.



- The temperature can be set within a range of 18°C~30°C by 1°C.



During Auto Operation:

❑ You can switch the indoor fan speed.

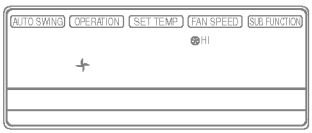
FAN Operation

1 Press the On/Off Button.



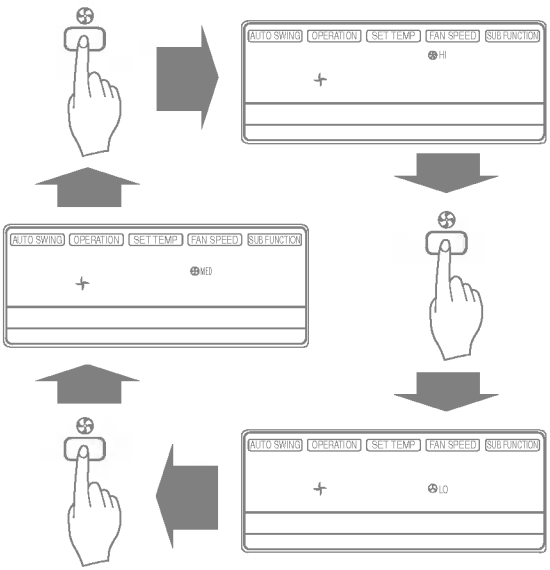
2 Press FAN Operation Button.



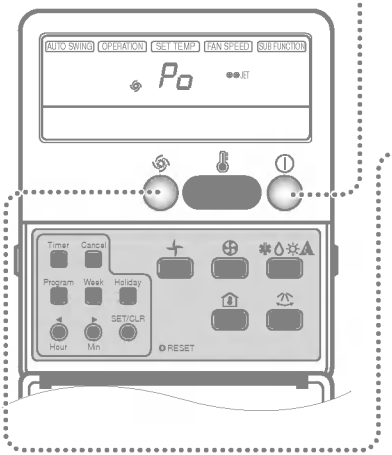


3 Each time Fan Speed button is pressed, the fan speed mode is shifted in the arrow direction.

- Fan speed is high.
- Fan speed is medium.
- Fan speed is low.



Jet Cool Operation Mode



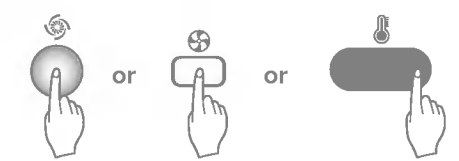
1 Press the On/Off button.



2 Press the **Jet Cool** button to operate the speed cooling mode and the unit will be operated in super high fan speed on cooling mode.



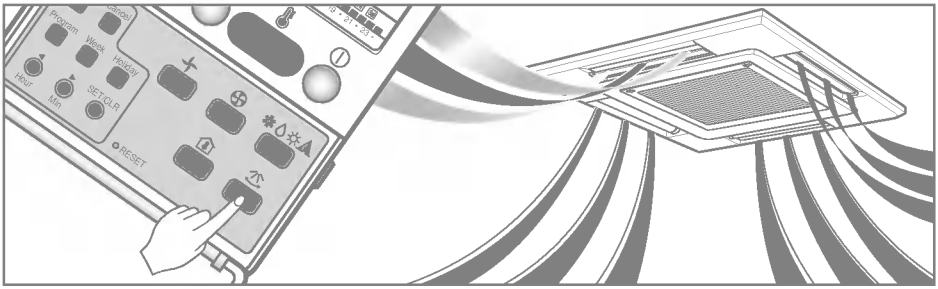
3 To cancel the **Jet Cool** mode, press the **Jet Cool** button again or the Fan Speed button or the room **Set Temperature button** and the unit will be operated in high fan speed on cooling mode.



❑ *During the Jet Cool function at any moment, the A/C starts to blow the cool air at extremely high speed setting the room temp. automatically to 18 °C. It is especially used to cool the room temp. in the shortest time in a hot summer.*
In heating mode however, the Jet Cool function is not available.

❑ *In order to return to the normal cooling mode from the Jet Cool mode, you just press either the operation mode selection button, airflow volume selection or temp. setting button or the Jet Cool button again.*

Auto Swing Mode



1 Press the On/Off button. (Confirm the unit on operation.)



2 Press the Auto Swing button then the horizontal louvers swing up and down automatically.



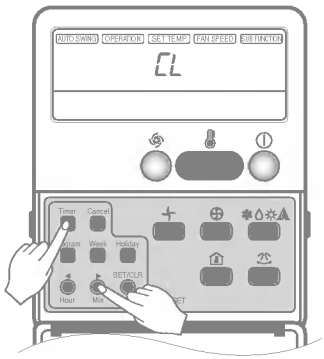
3 Press again the Auto Swing button to cancel the Auto Swing mode.



Child Lock Function

This is the Function that any children cannot use the air-conditioner.

Operation procedure



1. To set the Child-Lock Function

Press the Timer button and Minute Set button for three seconds. Then the operation mode shift to child lock mode and it is displayed ' **CL** ' in the operation display.

When you press any button in this time, the remote controller is not converted to any selected mode and the ' **CL** ' is displayed in the remote controller for about three seconds. But the Room Temperature function is operated in spite of child lock mode.

2. To cancel the Child-Lock Function

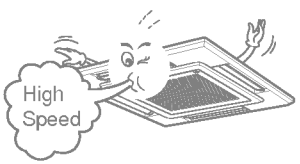
Press the Timer button and Minute Set button for three seconds. Then the child-lock mode is cancelled and the preselected mode is displayed in the remote controller.

Helpful information

Fan speed and cooling capacity.

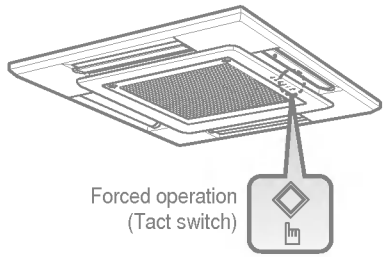
The cooling capacity indicated in the specification is the value when the fan speed is set to high, and the capacity will be lower at low or medium fan speed.

High fan speed is recommended when you wish to cool the room quickly.



Forced Operation

Operation procedures when the remote controller can't be used.
Press the tact switch (Forced operation) for 2 seconds.
If you want to stop operation, press again the tact switch.
In case the power comes on again after power failure on the Forced Operation mode, the operating conditions are automatically set as follows:
During Forced Operation, the initial mode continues.



	Room Temp. ≥ set Temp.-2℃	Room Temp. < set Temp.-2℃
Operating mode	Cooling	Heating
Indoor FAN Speed	set available	set available
Setting Temperature	set available	set available

Auto Restart Function

In case the power comes on again after power failure, Auto Restarting Operation is the function to operate procedures automatically to the previous operating conditions.

Tips for Filter sign LED

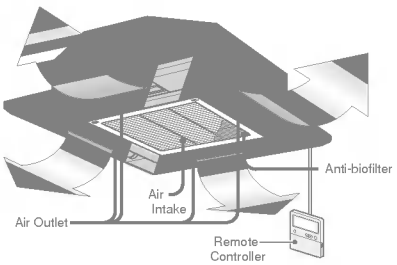
1. Filter sign lamp(LED) is ON.
2. If LED indicating filter sign lamp is ON, clean the filter.
3. After cleaning the filter, press the timer button and ◀ button of wired remote controller at the same time for 3 seconds. Then filter sign LED is OFF.

CAUTION: Before performing any maintenance, turn off the main power to the system.

Grille, Case, and Remote Controller

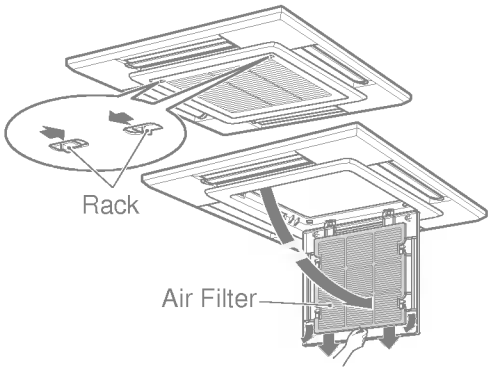
❑ Turn the system off before cleaning. To clean, wipe with a soft, dry cloth. Do not use bleach or abrasives.

Power supply must be disconnected before cleaning the indoor unit.



Air Filters

The air filters behind the front grille should be checked and cleaned once every 2 weeks or more often if neccessary.



■ Never use any of the followings:
- Water hotter than 40℃. Could cause deformation and/or discoloration.
- Volatile substances. Could damage the surfaces of the air conditioner.



1. Remove the Air filters.
■ Take hold of the tab and pull slightly forward to remove the filter.

CAUTION: When the air filter is to be removed, do not touch the metal parts of the indoor unit. It may cause an injury.

2. Clean dirt from the air filter using a vacuum cleaner or washing with water.
■ If dirt is conspicuous, wash with a neutral detergent in lukewarm water.
■ If hot water (50℃ or more) is used, it may be deformed.

3. After washing with water, dry well in the shade.
■ Do not expose the air filter to direct sunlight or heat from a fire when drying it.

4. Install the air filter.

ong time.

When it is not going to be used for a long time.

1. **Operate the air conditioner at the following settings for 2 to 3 hours.**
   - Type of operation: Fan operation mode.(Refer to page 19)
   - This will dry out the internal mechanisms.
2. **Turn off the breaker.**

⚠ CAUTION

Turn off the breaker when the air conditioner is not going to be used for a long time.

Dirt may collect and may cause a fire.

Helpful information

The air filters and your electiric bill.
If the air filters become clogged with dust, the cooling capacity will drop, and 6% of the electricity used to operate the air conditioner will be wasted.

When the air conditioner is used again

1. **Clean the air filter and install it in the indoor unit.**
   (Refer to page 23 for cleaning it.)
2. **Check that the air inlet and outlet of the indoor/outdoor unit are not blocked.**
3. **Check that the ground wire is connected correctly. It may be connected to the indoor unit side.**

Do not overcool the room.	Keep blinds or curtains	Keep the room temperature
This is not good for the health and wastes electricity.	Do not let direct sunshine enter the room when the air conditioner is in operation.	Adjust the vertical and horizontal airflow direction to ensure a uniform temperature in the room.
Make sure that the doors and windows	**Clean the air filter regularly.**	**Ventilate the room**
Avoid opening doors and windows as much as possible to keep the cool air in the room.	Blockages in the air filter reduce the airflow and lower cooling and dehumidifying effects. Clean at least once every two weeks.	Since windows are kept closed, it is a good idea to open them and ventilate the room now and then.

Troubleshooting Tips! Save time and money!

Check the following points before requesting repairs or service.... If the malfunction persists, please contact your dealer.

The air conditioner does not operate.	**The room has a peculiar odor.**	**It seems that condensation is on the air.**	**Air conditioner does not operate for about [illegible] when**
• Have you made a mistake in timer operation? • Has the fuse blown or has the circuit breaker been tripped?	• Check that this is not a damp smell exuded by the walls, carpet, furniture or cloth items in the room.	• Condensation occurs when the airflow from the air conditioner cools the warm room air.	• This is the protector of the mechanism. • Wait about three minutes and operation will begin.
Does not cool or heat effectively.	**The air conditioner [illegible] is [illegible]**	**Crack sound is [illegible] heard.**	**Remote control [illegible] is [illegible] or no**
• Is the air filter dirty? See air filter cleaning instructions. • The room may have been very hot when the room air conditioner was first turned on. Allow time for it to cool down. • Has the temperature been set incorrectly? • Are the indoor unit's air inlet or outlet vents obstructed?	• For a noise that sounds like water flowing. -This is the sound of freon flowing inside the air conditioner unit. • For a noise that sounds like the compressed air releasing into atmosphere. -This is the sound of the dehumidifying water being processed inside the air conditioning unit.	• This sound is generated by the expansion/ constriction of the front panel, etc. due to changes of temperature. **Filter sign [illegible] is [illegible]** • Cleaning the filter, press the Timer button and ◀ button of wired remote controller at the same time for 3 sec.	• Are the batteries depleted? • Are the batteries inserted in the opposite (+) and (-) directions?