

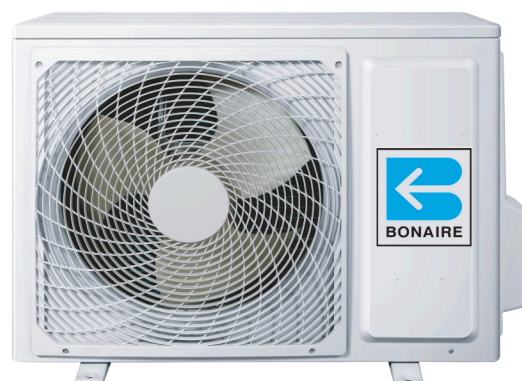
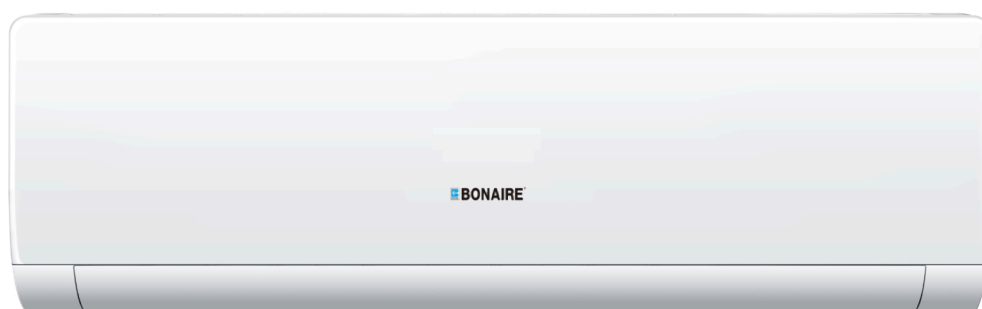


The leaders in heating and cooling

SPLIT TYPE ROOM AIR CONDITIONER

# OPERATION MANUAL

*for the user*



Optima L Series OHL 25OD/ID 2.5kW (CRC6910025/CRC6910125)

Optima L Series OHL 35OD/ID 3.5kW (CRC6910035/CRC6910135)

Optima L Series OHL 50OD/ID 5.0kW (CRC6910050/CRC6910150)

Optima L Series OHL 70OD/ID 7.0kW (CRC6910070/CRC6910170)

***Please read this operation manual before using the air conditioner and keep this operation manual in a safe place for future reference.***

*Pictures and diagrams in this booklet are used for illustration purposes and may vary from the actual product*

0011512357





# Contents

PARTS AND FUNCTIONS

OPERATION

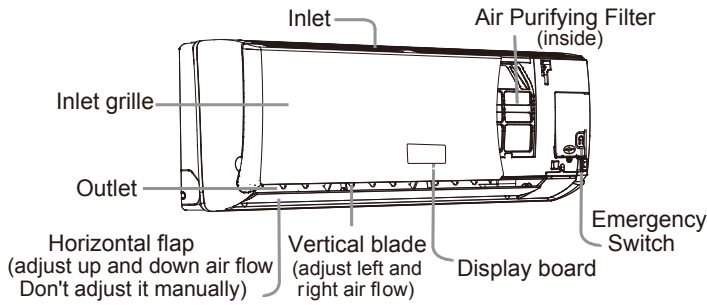
MAINTENANCE

CAUTIONS

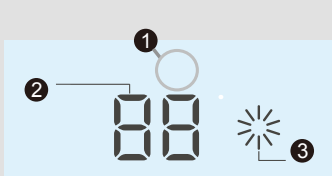
TROUBLE SHOOTING

# Parts and Functions

## Indoor Unit



### Display board A



- 1 Signal receiver
- 2 Setting temp. display
- 3 Operation mode indicator  
(White light for COOL / DRY / HEAT mode.  
Green light for health function)

### Display board B



- 1 Signal receiver hole
- 2 Ambient temp display  
When receiving the remote control signal, displays the set temperature momentarily
- 3 Operation mode indicator  
(lights up when the compressor is on.)
- 4 TIMER ON/OFF display  
TIMER ON = OFF display  
SLEEP display

### Display board C



- 1 Remote signal receiver  
(A beeping sound is generated when a signal from remote controller is received.)
- 2 Power indicator (Lights up when unit starts.)
- 3 Timer mode indicator  
(Lights up when Timer operation is selected.)
- 4 Operation mode indicator (lights up when the compressor is on.)
- 5 Ambient temp display  
When receiving the remote control signal, displays the set temperature momentarily.

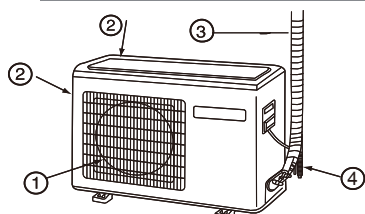
### Display board D



- 1 Signal receiver hole
- 2 Ambient temp. display  
When receiving the remote control signal, displays the set temperature momentarily.
- 3 COOL display
- 4 HEAT display
- 5 HEALTH display
- 6 DRY display

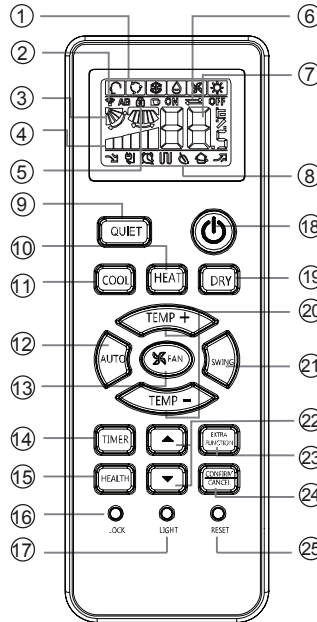
Actual inlet grille may vary from the one shown in the manual according to the product purchased

## Outdoor Unit



- 1 OUTLET
- 2 INLET
- 3 CONNECTING PIPING AND ELECTRICAL WIRING
- 4 DRAIN HOSE

## Remote controller



### 8. Additional functions display

Operation mode	QUIET	SLEEP	Supplemented electrical heating	HEALTH	TURBO
Remote controller					

### 9. TURBO / QUIET button

### 10. HEAT button

### 11. COOL button

### 12. AUTO button

### 13. FAN SPEED button

### 14. TIMER button

### 15. HEALTH button

### 16. LOCK button

### 17. LIGHT button

Used to lock buttons and LCD display

### 18. POWER ON/OFF button

### 19. DRY button

### 20. TEMP button

### 21. SWING button

### 22. HOUR button

### 23. EXTRA FUNCTION button

Function: SLEEP ----> HEALTH

airflow position 1 ----> HEALTH airflow

position 2 ----> Power --> Air sending

--> A-B yard

### 24. CANCEL/CONFIRM button

Press to set or cancel the timer or other functions.

### 25. RESET button

When the remote controller appears abnormal, use a sharp pointed article to press this button to reset the remote.

Health function is not available for some units.

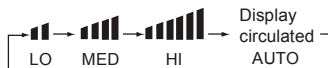
### 1. Mode display

Operation mode	AUTO	COOL	DRY	FAN	HEAT
Remote controller					

### 2. Signal sending display

### 3. SWING display

### 4. FAN SPEED display

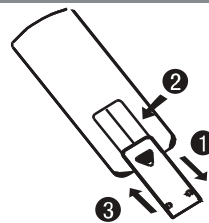


### 5. LOCK display

### 6. TIMER OFF display

### 7. TEMP display

## Installing batteries



### 1 Remove the battery cover;

### 2 Install the batteries as illustrated.

### 3 Be sure that the loading is in line with the "+" and "-";

### 4 Load the battery, then replace the cover.

#### Note:

- The distance between the signal transmission head and the receiver hole should be within 7m without any obstructions.
- When an electronic-starter type fluorescent lamp or change-over type fluorescent lamp or wireless telephone is installed in the room, the receiver may be prone to interference signals, so the distance to the indoor unit should be kept as short as possible.
- Dull display or unclear display during operation indicates the batteries require replacing. Replace batteries.
- If the remote controller does not respond or responds incorrectly, remove the batteries and re-insert after 5 minutes.

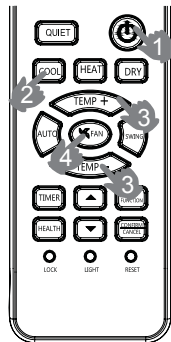
#### Hint:

Remove the batteries if unit won't be in use for a long period.

# Operation

## Basic Operation

Remote controller



### 1. Unit start

Press ON/OFF on the remote controller, unit starts.

### 2. Select operation mode

COOL button: Cooling mode  
HEAT button: Heating mode  
DRY button: Dehumidify mode

### 3. Select temp. setting

Press TEMP+ / TEMP- button

TEMP+ Every time the button is pressed, temp. setting increases 1°C, if kept depressed, it will increase rapidly

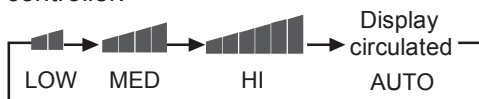
TEMP- Every time the button is pressed, temp. setting decrease 1°C, if kept depressed, it will decrease rapidly

Select a desired temperature.

### 4. Fan speed selection

Press FAN button. For each press, fan speed changes as follows:

Remote controller:



When FAN is set to AUTO, the air conditioner automatically adjusts the fan speed according to room temperature set point.

Operation Mode	Remote Controller	Note
AUTO		When AUTO operation is selected, the air conditioner will automatically select Cool or Heat operation according to room temperature. When FAN is set to AUTO the air conditioner automatically adjusts the fan speed according to room temperature.
COOL		Cooling only units do not have displays and functions relating to heating
DRY		In DRY mode, if the room temperature drops lower than the set temp. by more than +2°C, the unit will run intermittently at LOW speed regardless of FAN setting.
HEAT		In HEAT mode, when the unit is first turned on, there will be a delay for a short period of the time due to prevent cold air being emitted.
FAN		In FAN operation mode, the unit will not operate in COOL or HEAT mode but only in FAN mode, AUTO is not available in FAN mode and the temp. setting is disabled. In FAN mode, sleep operation is not available.

## Emergency operation and test operation

### Emergency Operation:

- Use this operation only when the remote controller is defective or lost. On emergency function, air conditioner will run automatically for a 1 hour period.
- When the emergency operation switch is pressed, a "beep" sound is heard once, which means the start of this operation.
- When power switch is pressed on for the first time and emergency operation starts, the unit will run automatically in the following modes:

Room temperature	Designated temperature	Timer mode	Fan speed	Operation mode
Above 23°C	26°C	No	AUTO	COOL
Below 23°C	23°C	No	AUTO	HEAT



- These modes cannot be changed and is intended for testing or in the case of losing the remote control.

### Test operation:

Test operation switch is the same as emergency switch.

- Use this switch in the test operation when the room temperature is below 16°C, do not use it in normal operation.

- Continue to press the test operation switch for more than 5 seconds. After you hear the "beep" sound twice, release your finger from the switch: the cooling operation starts with the air flow speed "Hi".



- Under this operation mode, the fan motor of indoor unit will run in high speed.

## Air Flow Direction Adjustment

### 1. Vertical flap

Pos.1

Pos.2

Pos.3

Pos.4 (Autoswing)

Pos.5

### Remote controller

COOL/DRY/AUTO (Initial state):

HEAT (Initial state):



2. Press button. changes as follows: Pos.4

Press button again, vertical flap will stop over present position, the swing function will be cancelled.

3. Press button to choose the Pos.2 and Pos.3.

### Cautions:





- Do not adjust the flap by hand,
- When humidity is high, condensate water might occur on the louvers. It is advisable not to keep horizontal flap in the downward position for a long period in COOL or DRY mode to avoid the build up of condensate.

Note: When restarting unit after turning off, the remote controller will automatically memorize the previous set swing position.

# Operation

## SLEEP Operation

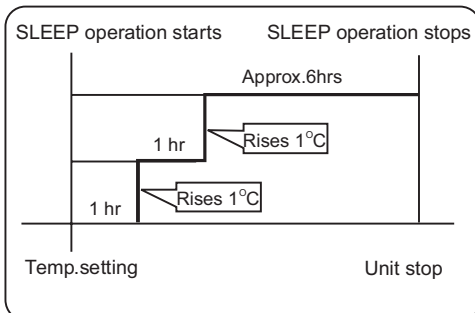
The SLEEP function is not available if the unit is in **TIMER mode** or in **FAN mode**

Press  button to enter additional options, when cycle display to  ,  will flash. And then press  to enter SLEEP function



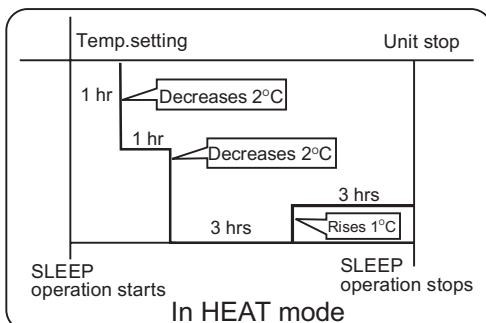
### In COOL, DRY Mode

1 hour after SLEEP mode is activated, the set temp will rise by 1 degree and then by another 1 degree after a further hour. The unit will run for a further 6 hours before switching off.



### In HEAT Mode


1 hour after SLEEP mode is activated, the set temp will drop by 2 degrees and then by another 2 degree after a further hour. After 3 hours, the set temp will raise by 1 degree and run for 3 hours before switching off.





## POWER/QUIET Operation

### (1) POWER Mode


If power mode is activated, the unit will run on HIGHEST power to provide rapid cooling/heating.

To activate, press  button to enter additional options.

Press repeatedly until  flashes, then press  to enter into POWER mode. To cancel this function, enter EXTRA FUNCTION again and press CANCEL when the arrow symbol is displayed.

### (2) QUIET Mode

This mode will run the unit on it's LOWEST power to produce the least amount of noise.

To activate, press the QUIET button, the remote will now display  , the unit is now in QUIET mode

To cancel, press the QUIET button and the arrow will disappear.

### NOTE:

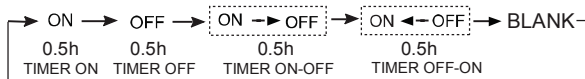
During POWER operation mode, the room temperature display may not be accurate.

Long periods of operation in QUIET mode may not heat or cool the room as effectively.

# Operation

## Timer On/Off On-Off Operation

1. After unit starts, select your desired operation mode.
2. Press TIMER button to change TIMER mode. Every time the button is pressed, display changes as follows on the remote controller:



Then select your desired TIMER mode (TIMER ON or TIMER OFF or TIMER ON-OFF). " ON "or " OFF "will flash.

3. Press ▼ / ▲ button to set time.

▲ Press the button for each time, setting time in the first 12 hours increases by 0.5 hour every time, after 12 hours, it increases by 1 hour.

▼ Press the button for each time, setting time in the first 12 hours decreased by 0.5 hour, after 12 hours it decreases by 1 hour every time.

Time can be adjusted for up to 24 hours.

4. Confirm timer setting

After adjusting the time, press button and confirm the time ON or OFF. The symbol will stop flashing.

5. Cancel timer setting

Press the timer button repeatedly until time display disappears.

### Hints:

After replacing batteries or a power failure occurs, the time will need to be reset.

## HEALTH airflow Operation

1. Press to starting

2. To set the health airflow function

Press button to enter additional options, Press this button repeatedly, the louver location will cycle between the the following three locations. Choose the swing location you need ,and then press button to confirm.



3. To cancel the health airflow function

Press button to enter additional options, Press this button repeatedly, the louvers location will cycle between the three locations again, then press button to cancel.

Notice: Do not direct the flap by hand, otherwise, the grille will run incorrectly. If the grille is not in the correct direction, stop adjusting for a minute and then start adjusting by remote controller.

### Note:

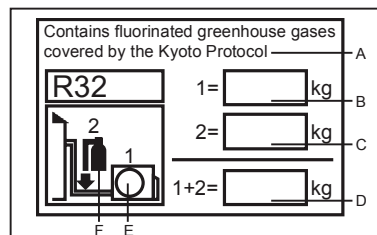
1. After setting the healthy airflow function, the position grill is fixed.

2. In heating, it is better to select the mode.

3. In cooling, it is better to select the mode.

4. In cooling and dry, using the air conditioner for a long period under high air humidity, may cause condensate water to occur at the grille.

## IMPORTANT INFORMATION REGARDING THE REFRIGERANT USED



This product contains fluorinated greenhouse gases covered by the Kyoto Protocol. Do not vent into the atmosphere.

Refrigerant type: R32

GWP\* value: 675

GWP=global warming potential

Please fill in with permanent ink,

- 1 the factory refrigerant charge of the product
- 2 the additional refrigerant amount charged in the field and
- 1+2 the total refrigerant charge on the refrigerant charge label supplied with the product.

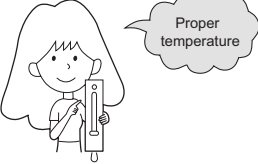
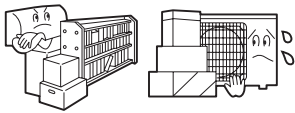


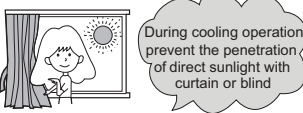
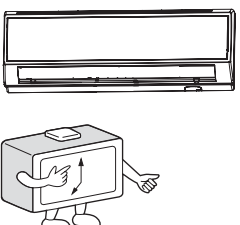



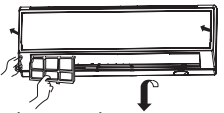

The filled out label must be adhered in the proximity of the product charging port (e.g. onto the inside of the stop value cover).

### LEGEND FOR DIAGRAM ABOVE:


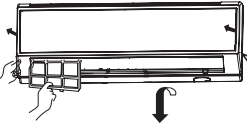


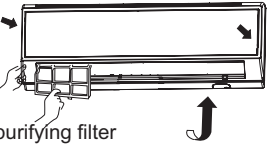
- A Contains fluorinated greenhouse gases covered by the Kyoto Protocol
- B Factory refrigerant charge of the product: see unit Name plate
- C Additional refrigerant amount charged in the field
- D Total refrigerant charge
- E Outdoor unit
- F Refrigerant cylinder and manifold for charging

# Maintenance

## For best use of your Air Conditioner

<p>Set the correct room temperature</p> 	<p>Do not block the air inlet or outlet</p> 	<p>Remote Controller</p>  <p>Do not use water, wipe the controller with a dry cloth. Do not use glass cleaner or chemical cloth.</p>	<p>Indoor Body</p>  <p>Wipe the air conditioner by using a soft and dry cloth. For stubborn stains, use a neutral detergent diluted with water. Wring the water out of the cloth before wiping, then wipe off the detergent completely.</p>
<p>Close doors and windows during operation</p> 	<p>Use the timer effectively</p> 	<p>Do not use the following for cleaning</p>  <p>Gasoline, benzene, thinner or cleanser may damage the coating of the unit. Hot water over 40°C (104°F) may cause discoloring or deformation.</p>	
<p>If the unit is not to be used for a long period, turn off the power supply main switch.</p> 	<p>Use the louvers effectively</p> 	<p>Air Filter cleaning</p>  <ol style="list-style-type: none"> <li>Open the inlet grille by pulling it upward.</li> <li>Remove the filter. Push up the filter's center tab slightly until it is released from the stopper, and remove the filter downward.</li> <li>Clean the filter. Use a vacuum cleaner to remove dust, or wash the filter with water. After washing, dry the filter completely in the shade.</li> <li>Attach the filter. Attach the filter correctly so that the "FRONT" indication is facing to the front. Make sure that the filter is completely fixed behind the stopper. If the right and left filters are not attached correctly, that may cause defects.</li> <li>Close the inlet grille.</li> </ol> 	

## Replacement of Air Purifying Filter

<ol style="list-style-type: none"> <li>Open the Inlet Grille Prop up the inlet grille by using a small device named grille-support which is located in the right side of the indoor unit.</li> <li>Detach the standard air filter Slide the knob slightly upward to release the filter, then withdraw it.</li> <li>Attach an Air Purifying Filter Put air purifying filter appliances into the right and left filter frames.</li> </ol>    	<ol style="list-style-type: none"> <li>Attach the standard air filter (Necessary installation) <b>ATTENTION:</b> The white side of the photocatalyst air purifying filter faces outside, and the black side faces the unit. The green sides of the bacteria-killing medium air purifying filter face outside, and the white side faces the unit.</li> <li>Close the Inlet Grille firmly</li> </ol> <p><b>NOTE:</b></p> <ul style="list-style-type: none"> <li>During the course of normal domestic use, the photocatalyst air purifying filter will require recharging. This can be done by simply exposing the filter to direct sunlight every 6 months.</li> <li>The bacteria-killing medium air purifying filter will be used for a long time and does not require replacement. But in the period of using them, you should remove the dust frequently by using a vacuum cleaner or dusting them lightly, otherwise, its performance will be affected.</li> <li>Please keep the bacteria-killing medium air purifying filter in cool and dry conditions and avoid long terms sun exposure when you stop using it, or its ability of sterilization will be reduced.</li> </ul> 
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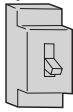
# Cautions

## ⚠ WARNING

Please contact a qualified Installer and **DO NOT** attempt to install the air conditioner by yourself as incorrect installation can lead to a dangerous situation and cause electric shock, fire, water leakage hazards, etc. REFER TO THE INSTALLTION INSTRUCTIONS.

## ⚠ WARNING

If you notice any abnormal operation such as a burnt smell or strange noise, immediately stop operation and seek assistance from your place of purchase or refer to your warranty & service booklet.

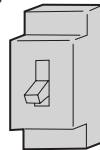


OFF



**!**  
STRICT  
ENFORCEMENT

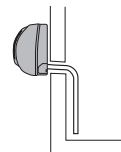
Use an exclusive power source with a circuit breaker



Check proper installation of the drainage



STRICT  
ENFORCEMENT



If applicable, connect power supply cord to the outlet securely



STRICT  
ENFORCEMENT

Use the proper voltage



STRICT  
ENFORCEMENT

1. Do not use power supply extensions

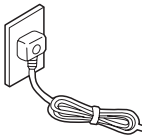
2. Do not install in a place where there is any possibility of inflammable gas leakage around the unit.

3. Do not expose the unit to vapor or oil steam.



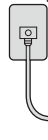
PROHIBITED

Do not use power supply cord in a bundle.



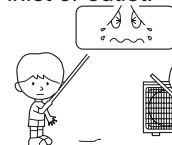
PROHIBITED

Take care not to damage the power supply cord.



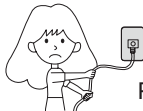
PROHIBITED

Do not insert objects into the air inlet or outlet.



PROHIBITED

Do not start or stop the operation by disconnecting the power supply cord and so on.



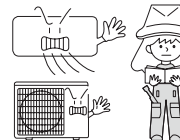
PROHIBITED

Do not channel the air flow directly at people, especially at infants or the aged.

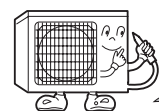


PROHIBITED

Do not try to repair or reconstruct by yourself.



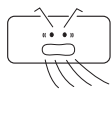
Connect the earth cable.



earthing

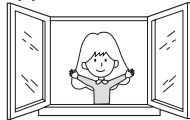
## ⚠ CAUTION

Do not use for the purpose of storage of food, art work, precise equipment, breeding, or cultivation.



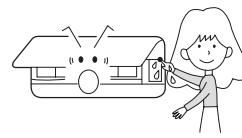
PROHIBITED

Ventilate the property with fresh air occasionally especially when gas appliance is running at the same time.



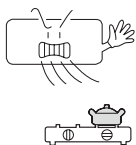
STRICT  
ENFORCEMENT

Do not operate the switch with wet hands.



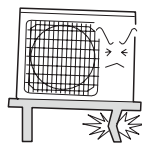
PROHIBITED

Do not install the unit near a fireplace or other heating apparatus.



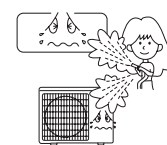
PROHIBITED

Check good condition of the installation stand



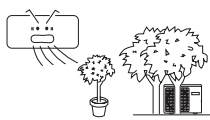
PROHIBITED

Do not pour water onto the unit for cleaning



PROHIBITED

Do not place animals or plants in the direct path of the air flow



PROHIBITED

Do not place any objects on or climb on the unit.

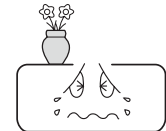


PROHIBITED

Do not place flower vase or water containers on the top of the unit.








PROHIBITED



# Trouble shooting

Before requesting for service, check the following first.

	Phenomenon	Cause or check points
Normal Performance inspection	The system does not restart immediately. 	<ul style="list-style-type: none"> <li>When unit is stopped, it won't restart immediately until 3 minutes have elapsed to protect the system.</li> <li>When the electric plug is pulled out and reinserted, the protection circuit will work for 3 minutes to protect the air conditioner.</li> </ul>
	Noise is heard 	<ul style="list-style-type: none"> <li>During unit operation or at stop, a swishing or gurgling noise may be heard. During the first 2-3 minutes after unit start, this noise is more noticeable. (This noise is generated by refrigerant flowing in the system.)</li> <li>During unit operation, a cracking noise may be heard. This noise is generated by the casing expanding or shrinking because of temperature changes.</li> <li>Should there be a big noise from air flow in unit operation, the air filter may require cleaning.</li> </ul>
	Smells are generated.	<ul style="list-style-type: none"> <li>This can be caused from the system circulating smells from the interior air such as the smell of furniture, paint, cigarettes.</li> </ul>
	Mist or steam are blown out. 	<ul style="list-style-type: none"> <li>During COOL or DRY operation, indoor unit may blow out mist. This is due to the sudden cooling of indoor air.</li> </ul>
	In dry mode, fan speed can't be changed.	<ul style="list-style-type: none"> <li>In DRY mode, when room temperature becomes lower than set temp. by 2 °C, the unit will run intermittently at LOW speed regardless of FAN setting.</li> </ul>
Multiple check		<ul style="list-style-type: none"> <li>Is power ON? Is there a power failure?</li> <li>Is the circuit breaker tripped?</li> </ul>
	Poor cooling 	<ul style="list-style-type: none"> <li>Is the air filter dirty? Normally it should be cleaned every 15 days during high use.</li> <li>Are there any obstacles before inlet and outlet?</li> <li>Is temperature set correctly?</li> <li>Are there some doors or windows left open?</li> <li>Is there any direct sunlight through the window during the cooling operation?</li> <li>Is there too much heat sources or too many people in the room during cooling operation?</li> </ul>

# Cautions

- Do not obstruct or cover the ventilation grille of the air conditioner. Do not put fingers or any other objects into the inlet/outlet and swing louver.
- This appliance is not intended for use by persons (including children) with reduced sensory or mental capabilities or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of appliance by a person responsible for their safety. Children should be supervised to ensure that they do not play with the appliance.

## Notes:

- The appliance must be serviced and maintained regularly by a qualified refrigeration mechanic. Failure to do so may invalidate the warranty. Please refer to your Warranty and Service booklet that came with the appliance for further details.
- If the power supply cord is damaged, it must be replaced by the manufacturer or its service agent or a similar qualified person.
- The appliance must be installed by a qualified installer.
- After installation, the power plug should be within reach.
- Old batteries should be disposed correctly.
- The appliance is not intended for use by young children or infirm persons without supervision.
- If ever in doubt, switch off your appliance from the mains isolating switch and seek advice or assistance from a professional person such as your installer or our service department for assistance.

**For warranty and service information, please refer to your separate Warranty & Service booklet that came with the appliance**

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