SAFETY PRECAUTION
- When using the air conditioner, ask a licensed technician or the salesperson to check its installation condition. Be sure that the unit operates in proper condition after installation. Examine to confirm the proper way of using the unit as described in the user’s manual.

CAUTIONS
- Store the safety precautions carefully before operating the unit.
- The contents of this section are vital to ensure safety. Please pay special attention to the following sign.

WARNING ........ Incorrect methods of installation may cause death or serious injury.

CAUTION ......... Improper installation may result in serious consequences.

The sign in the figure indicates prohibition.

Be sure that the unit operates in proper condition after installation. Examine to confirm the proper way of using the unit as described in the user’s manual.

PRECAUTIONS DURING INSTALLATION
- Please ask sales agent or qualified technician for the installation of the unit. Water leakage, short circuit or fire may occur if you install this unit improperly.

WARNING
- Do not use earth line.
- Do not place the water near water or gas pipes, lightning-conductor or the earth line of telephone. Improper installation of earth-line may cause electric shock.

CAUTION
- A circuit breaker should be installed depending on the mounting site of the unit. Without a circuit breaker, the danger of electric shock exists.
- Do not install near location where there is flammable gas. The unit may catch fire if flammable gas leaks around it.
- If drain pan is used, please ensure that when installing the drain hose, water is able to flow freely without any obstruction.

PRECAUTIONS DURING SHUTTING OR MAINTENANCE
- If abnormal situation arises (like burning smell), please stop the unit and turn off the circuit breaker. Fault, short circuit or fire may occur if the unit is continued to operate under abnormal situation.

WARNING
- Please connect your agent for maintenance. Improper maintenance may cause electric shock.

CAUTION
- Please contact your agent if need to remove and reinstall the unit. Electric shock or fire may occur if you remove and reinstall the unit improperly.

PRECAUTIONS DURING OPERATION
- Avoid keeping the unit for a long time on the floor or on the sofa.
- Do not place the unit near any fans or heat sources.

WARNING
- Do not place the unit near heat sources as it can be damaged by high temperature.
- The operation of apparatus such as the electronic balance, oven etc., may be influenced.

CAUTION
- During thunderstorm, disconnect the power supply and turn off the circuit breaker.
- The product shall be operated under the manufacturer specification and not for any other intended use.
- Do not attempt to operate the unit without heater, as it would cause total accident.

When operating the unit with burning smell, regularly consult the local user to avoid explosion.

WARNING
- Do not direct the area of the air conditioner towards any household heating apparatus or the area which the operation of apparatus such as the electronic balance, oven etc., may be influenced.
- Please ensure that mounting surface is always stable, firm and without obstacles. Otherwise, the unit may collapse and cause dangerous.
- Do not obstruct or close the area of the unit while clearing it. This may cause short circuit.

CAUTION
- Do not place plastics or other inflammable items near or on the fan and grill during the operation.
- The room temperature and air exhaust lever should normally be kept in up (vertical) position during cooling operation and in the case of typhoon.

WASABI AIR PURIFYING FILTER
- Always stop the operation before installing the wasabi air purifying filter
- Do not close the room for a long period of time.

NOTES ON OPERATION
TEMPERATURE AND HUMIDITY
- Avoid using the room air conditioner for cooling operation when the outside temperature is below 21°C (70°F). Recommended operation humidity should be below 80%. Continuous operation at over 80% humidity (indoor) will cause some dews form on the outlet grille and deflector of the unit.

NOISE
- In a quiet environment during the starting or stopping the operation, phenomena like burning smell, blowing sound from the fan casing may occasionally occur, but this is normal for the operation.

ODOR
- The odor will possibly be emitted from the room air conditioner especially at the starting of operation and in a high humidity condition. This is not abnormal phenomena because of the various kind of odors emitted by smoke, food stuff, cosmetics and others which may stick to the room air conditioner. So, the pre-filter and the evaporator regularly must be cleaned to reduce the odor.

THE IDEAL WAYS OF OPERATION
- The Air Conditioner And The Heat Source In The Room

FOR USER’S INFORMATION
- Dusty pre-filter will reduce the air volume and the cooling efficiency. To prevent from wasting electricity, please clean the pre-filter every 20 days.

Air exhaust lever to the down (OPEN) position for ventilation in the room. The air exhaust lever should normally be kept in up (CLOSED) position during cooling operation and in the case of typhoon.

Air exhaust lever

Vertical Deflector
Horizontal Deflector

Horizontal Deflector

AIR EXHAUST LEVER
Set the air exhaust lever to the down (OPEN) position for ventilation in the room. The air exhaust lever should normally be kept in up (CLOSED) position during cooling operation and in the case of typhoon.

WASABI AIR PURIFYING FILTER
Wasabi air purifying filter are not washable. It is recommended to use vacuum to clean it. It can be used for 1 year time. Type number for this wasabi air purifying filter is “SH-PF-WF06”. Please use this number for ordering when you want to renew it.

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- Dusty pre-filter will reduce the air volume and the cooling efficiency. To prevent from wasting electricity, please clean the pre-filter every 20 days.
MAINTENANCE

CAUTION
Always turn off and unplug the unit before any cleaning or maintenance to ensure safety.

PRE-FILTER
If the pre-filter is clogged with dust, the air flow volume will be decreased and resulting in poor cooling performance, and increased operating noise. Be sure to clean the filter about every 20 days.
1. Remove the suction grille by pulling the bottom corner and slightly lift up the suction grille.
2. Pull downward to unhook the suction grille and remove the suction grille.
3. Lift and unhook the bottom of the pre-filter and remove it.
4. Remove dust from the pre-filter by using a vacuum cleaner. If the pre-filter is very dirty, wash it with detergent and rinse properly with water. Dry the pre-filter with soft cloth and do not expose it to heat or under direct sunlight.
5. Install the pre-filter by fitting the top hooks and then hook the bottom of the pre-filter.
6. Attach the suction grille back to its place by hooking at the top side to the front cover, then gently push at bottom corner.

FRONT COVER AND SUCTION GRILLE
Clean the front cover and suction grille with a soft dry cloth. When it is excessively dirty, wipe it with a soft cloth dampened with mild soap, then wipe it again thoroughly with a soft dry cloth.
The suction grille can also be removed and be washed with water and mild soap. Remove the suction grille in the following manner:
1. Remove the suction grille by pulling the bottom corner and slightly lift up the suction grille.
2. Pull downward to unhook the suction grille and remove the suction grille.

CAUTIONS
Never use hot water above 50°C, erosive chemicals or brush to clean the front cover and suction grille because they will damage the plastic surface.

BEFORE ASKING FOR SERVICE
Check the following items before asking for service. If the malfunction persists, please contact service centre.

Symptom | Check
--- | ---
Does not operate at all | 1. Is the power cord loosened or unplugged?
2. Is the fuse blown out or the circuit breaker tripped?
3. Is the voltage normal?
4. Is the main switch set to “OFF” position?

Poor cooling performance | 1. Is the pre-filter covered with heavy dust?
2. Is the temperature setting correctly?
3. Is the sun light fall directly in the air conditioner?
4. Is the air flow on the rear side (outdoor) blocked?
5. Leave a space of 900 mm (3 feet) behind the rear side of air conditioner.
6. The doors or windows may be opened widely or there are other sources of heat in the room.
7. Is the ventilation damper opened?

CAUTION
If the power supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.

INSTALLATION INSTRUCTIONS
Remove all the shipping parts before installation and consult an authorised dealer concerning installation requirements, otherwise may damage the air conditioner.

LOCATION
- Select a location that can support the weight of the air conditioner and will not cause increased operating noise and vibration.
- Select a location to avoid direct sunlight on the air conditioner.
- Select a good location for efficient air circulation.
- Select a location where there is no obstacles near the air inlet and outlet.

CONDEMNED WATER DRAINAGE
This air conditioner uses a "auto fan sphashing ring" which is designed to splash the condensed water on the condenser surface for maximum cooling efficiency, thus producing a splashing sound.
If you are uncomfortable with the sound, you can install an outside drainage by using the following procedure which may reduce the cooling operation performance.
1. Remove the rubber plug from the base pan.
2. Install the drain pan by using 2 pieces of screws (provided) at the cabinet.
3. Connect the drain pan with the drain hose to drain point. (Drain hose or tunnel cannot be purchased locally. Drain hose inner diameter should be around ø13mm or 1/2 inch.)
4. Pour 2 glasses of water into the drain pan to ensure the drainage is functioning normal.
5. Slide the air conditioner unit back into the cabinet.

The Drain Pan can be used in any positions as below and be secured by 2 screws to avoid water dropping problem:

DRAIN PAN

POWER CORD ARRANGEMENT
If power cord is withdrawn from left side of unit, please arrange the power cord as in figure after installing the front cover.

REMOVING THE FRONT COVER
Remove the front cover in the following manner.
1. Remove the suction grille by pulling the bottom corner and slightly lift up the suction grille.
2. Pull downward to unhook the suction grille and remove the suction grille.
3. Lift and unhook the bottom of the pre-filter and remove it.
4. Remove two screws which secure the front cover.
5. Remove the front cover from lower side. Disconnect the wiring motor connector at right side of the electrical box.

SLIDE OUT OF UNIT
1. Remove the four screws which fasten the base pan to the cabinet at the side and back.
2. Remove the stopper at front left side of base. (RA-13LDF)
3. Slide out the unit by pulling the handles.
4. After slide in the unit, please install a sealant between the base pan and cabinet to prevent from entering rain water in case of typhoon. Fasten the unit to cabinet at the side with the screw, then refit the front cover.

MEMO

INSTALLATION WORK INSPECTION CHECK LIST

<table>
<thead>
<tr>
<th>Item No.</th>
<th>Check Item</th>
<th>Confirm</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Have you removed the shipping parts? Please check the caution sheet which is attached at front cover.</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Is the outline of room air conditioner regarding front and rear, right and left all right after installation?</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Is the strength of installation sufficient?</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Have you grounded the room air conditioner?</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Have you fastened the unit to the cabinet?</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>Have you done a test operation, and are there any abnormal phenomena?</td>
<td></td>
</tr>
</tbody>
</table>

Recommended temperature range for safety testing should be as below:
- Cold side : Dry bulb 21 ~ 29°C
- Wet bulb 15 ~ 23°C
- Hot side : Dry bulb 21 ~ 43°C
- Wet bulb 15 ~ 22°C
REMOTE CONTROLLER

This controls the operation of the air conditioner. Signal range to reach air conditioner is about 7 meters. If inverter lamp is used, the range of control may be shorter. It can be fixed on a wall using the fixture provided. Before fixing it, make sure the air conditioner can be controlled from the remote controller.

MODE: RA-08LDF, RA-10LDF and RA-13LDF

HOW TO SET THE ON TIMER

Press the (ON TIMER) button, and the display changes as shown below.

<table>
<thead>
<tr>
<th>Mode</th>
<th>Indication</th>
</tr>
</thead>
<tbody>
<tr>
<td>ON TIMER</td>
<td>1 hr  2 hrs  3 hrs  10 hrs 11 hrs 12 hrs</td>
</tr>
<tr>
<td>Cancel ON TIMER</td>
<td></td>
</tr>
</tbody>
</table>

- Operation will start for setting temperature at setting time (The starting time may differ depending on the room temperature and set temperature).

HOW TO REPLACE THE BATTERIES IN THE REMOTE CONTROLLER

When using the remote controller, if there is no response from the air conditioner or the remote controller display is dim, please try to replace the batteries.

1. Remove the cover as shown in the figure and take out the old batteries.
2. Install the new batteries. The terminal of the batteries should match the marks in the case.

CAUTION

1. Do not use new and old batteries, or different kinds of batteries together.
2. When not in use, remove the batteries from the remote controller and store it in a cool and dry place.
3. Use high-quality batteries to ensure longer operating life and to avoid short circuiting or electrolyte leakage.

Transmission sign
The transmission sign blinks when a signal is sent.

Display
This indicates the room temperature setting, timer status, operation mode, and fan speed setting.

CIRCULATION button
Press this button to set air circulation in the room or start the operation.

DEHUMIDIFYING button
Press this button to dehumidify the room or start the operation.

COOLING button
Press this button to set cooling mode in the room or start the operation.

RESET button

STOP button
Press this button to stop the operation.

SLEEP TIMER button
Press this button to set the sleep timer.

FAN SPEED button
Press this button to change the fan speed. Every time you press this button, the intensity of circulation will change from (AUTO) to (HI) to (MED) to (LOW).

AUTO SWING button
Press this button to set auto swing or stop angle of the vertical air deflector.

TEMPERATURE button
Press this button to raise or lower the temperature setting. (Keep pressed, and the value will change more quickly.)

ON-TIMER button
Press this button to set the turn on time.

Precautions

- Do not put the remote controller in the following places.
  - In direct sunlight.
  - Near a heat source.
  - Handle the remote controller carefully. Do not drop it on the floor, and away from water.
  - Once the air conditioner stops, it will not restart for about 3 minutes (unless you turn the power switch off and on or unplug the power cord and plug it in again).

This is to protect the device and does not indicate a failure.
COOLING OPERATION

Use the device for cooling when the outdoor temperature is 21 ~ 43°C. If indoor humidity is very high (over 80%), some dew may form on the air outlet grille and deflectors of the unit.

1. Press the (COOLING) button so that the display indicates pointing to button. Cooling operation starts with a beep.

2. The cooling function does not start if the temperature setting is higher than the current room temperature. The cooling function will start as soon as you set the temperature below the current room temperature.

3. Set the desired room temperature with the TEMPERATURE button (the display indicates the setting).

The range of 25 ~ 28°C is recommended as the room temperature for cooling.

4. Press the (STOP) button to stop operation.

As the settings are stored in memory in the remote controller, you only have to press the (COOLING) button next time.

CIRCULATION OPERATION

1. Press the (CIRCULATION) button so that the display indicates pointing to button. Circulating operation starts with a beep.

2. Press the FAN SPEED button and select the desired FAN SPEED (the display indicates your choice).

3. Press the temperature control button to set to the desired temperature.

STOP

As the settings are stored in memory in the remote controller, you only have to press the (CIRCULATION) button next time.

HOW TO SET THE SLEEP TIMER

Press the (SLEEP TIMER) button, and the display changes as shown below.

SLEEP TIMER:
The device will continue working for the designated number of hours and then turn off.

Point the signal window of the remote controller toward the indoor unit, and press the SLEEP TIMER button.
The timer information will be displayed on the remote controller. The TIMER lamp lights with a beep from the indoor unit.

<table>
<thead>
<tr>
<th>Mode</th>
<th>Indication</th>
</tr>
</thead>
<tbody>
<tr>
<td>SLEEP TIMER</td>
<td>1 hr 2 hrs 3 hrs 10 hrs 11 hrs 12 hrs Cancel sleep timer</td>
</tr>
</tbody>
</table>

NOTE

- After sleep timer time is up and when press sleep timer button again, the timer will be set as last setting.
- Sleep timer effective only once.

Explaination of the sleep timer

The device will control the FAN SPEED and room temperature automatically so as to be quiet and good for people’s health. You can set the sleep timer to turn off after 1 to 12 hours. The FAN SPEED and room temperature will be controlled as shown below.

Operation with the sleep timer

<table>
<thead>
<tr>
<th>Function</th>
<th>Operation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cooling</td>
<td>The room temperature will be controlled 2°C above the setting temperature and the FAN SPEED will be set to LOW setting hour after the setting of the sleep timer.</td>
</tr>
</tbody>
</table>

Dehumidifying Function

Use the device for dehumidifying when the room temperature is over 16°C. When it is under 15°C, the dehumidifying function will not work.

1. Press the (DEHUMIDIFY) button so that the display indicates pointing to button. Dehumidifying operation starts with a beep.

2. The FAN SPEED is set at LOW automatically.

3. Set the desired room temperature with the TEMPERATURE button (the display indicates the setting).

The range of 20-26°C is recommended as the room temperature for dehumidifying.

STOP

Press the (STOP) button to stop operation.

As the settings are stored in memory in the remote controller, you only have to press the (DEHUMIDIFYING) button next time.

Dehumidifying Function

When the room temperature is higher than the temperature setting: The device will start to dehumidify and lower the room temperature to the preset level.

When the room temperature is lower than the temperature setting: Dehumidifying will be performed at the temperature setting slightly lower than the current room temperature, regardless of the temperature setting. The function will stop (the fan will stop emitting air) as soon as the room temperature becomes lower than the setting temperature. You might feel a bit colder in dehumidifying operation.