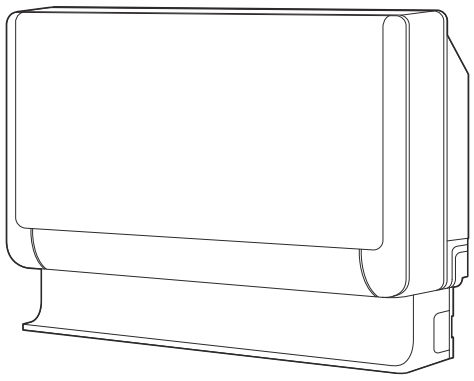
HITACHI

OPERATION MANUAL

air Home Floor

ROOM AIR CONDITIONER
SPLIT TYPE
XJ SERIES



RC-BGH1FA0E



MODELS
RAF-XJ25QHAE
RAF-XJ35QHAE
RAF-XJ50QHAE

EN Instruction manual	Page. 2~13	**GR** Εγχειρίδιο οδηγιών	Σελίδα. 8~13
GE Bedienungsanleitung	Seite.8~13	**CS** Návod k použití	Strana. 14~19
FR Manuel d'instructions	Page. 14~19	**PL** Instrukcja obsługi	Strona. 20~25
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RU Инструкция по эксплуатации	Стр. 50~55	**HR** Priručnik s uputama	Stranica. 62~67

Cooling & Heating

EE0019956E rev. 0-09/2023

ENGLISH FRANÇAIS DEUTSCH ITALIANO ESPAÑOL PORTUGUÊS NEDERLANDS ΕΛΛΗΝΙΚΑ РУССКИЙ ČEŠTINA POLSKI ROMÂNĂ MAGYAR УКРАЇНСЬКА SVENSKA SUOMI БЪЛГАРСКИ BOSANSKI LIETUVIŲ K. HRVATSKI

SAFETY PRECAUTION

	Please read the "Safety Precaution" carefully before operating the unit to ensure correct usage of the unit.		This appliance is filled with R32.

- Pay special attention to signs of "⚠ **Warning**" and "⚠ **Caution**". The "Warning" section contains matters which, if not observed strictly, may cause death or serious injury. The "Caution" section contains matters which may result in serious consequences if not observed properly. Please observe all instructions strictly to ensure safety.
- The signs indicate the following meanings. (The following are examples of signs.)

Make sure to connect earth line.	This sign in the figure indicates prohibition.
Indicates the instructions that must be followed.	

- Please keep this manual after reading.

PRECAUTIONS DURING INSTALLATION

⚠ WARNING

- Do not reconstruct the unit.
  Water leakage, fault, short circuit or fire may occur if you reconstruct the unit by yourself.


PROHIBITION

- Please ask your sales agent or qualified technician for the installation of your unit.
  Water leakage, short circuit or fire may occur if you install the unit by yourself.
- Please use earth line.
  Do not place the earth line near water or gas pipes, lightning-conductor, or the earth line of telephone. Improper installation of earth line may cause electric shock or fire.


CONNECT EARTH LINE

- Be sure to use the specified piping set for R32. Otherwise, this may result in broken copper pipes or faults.
- Do not use refrigerant other than the one indicated on the outdoor unit (R32) when installing, moving or repairing.
  Using other refrigerants may cause trouble or damage to the unit, and personal injury.

⚠ 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 the unit near a location where there is flammable gas.
  The outdoor unit may catch fire if flammable gas leaks around it.



PROHIBITION

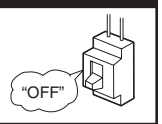
- Please ensure smooth flow of water when installing the drain hose.
- Make sure that a single phase 220V-240V power source is used.
  The use of other power sources may cause electrical components to overheat and lead to fire.


PROHIBITION

PRECAUTIONS DURING SHIFTING OR MAINTENANCE

⚠ WARNING

- Should abnormal situation arise (like burning smell), please stop operating the unit and turn off the circuit breaker. Contact your agent. Fault, short circuit or fire may occur if you continue to operate the unit under abnormal situation.



- Please contact your agent for maintenance. Improper self maintenance may cause electric shock and fire.
- Please contact your agent if you need to remove and reinstall the unit. Electric shock or fire may occur if you remove and reinstall the unit yourself improperly.

PRECAUTIONS DURING OPERATION

⚠ WARNING

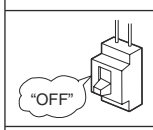
- Avoid an extended period of direct airflow for your health.


PROHIBITION


PROHIBITION

- Do not put objects like thin rods into the panel of blower and suction side because the high-speed fan inside may cause danger.
- Do not use any conductor as fuse wire, this could cause fatal accident.


PROHIBITION



- During thunder storm, disconnect the plug top and turn off the circuit breaker.
- Spray cans and other combustibles should not be located within a meter of the air outlets of both indoor and outdoor units.
  As a spray can's internal pressure can be increased by hot air, a rupture may result.


PROHIBITION

PRECAUTIONS DURING OPERATION

⚠ CAUTION

- This room air conditioner is only for residential usage.
  Do not use for preservation of foods, animals, plants, precision machines, art, medicine or such.
- The product shall be operated under the manufacturer specification and not for any other intended use.





- Do not attempt to operate the unit with wet hands, this could cause fatal accident.
- When operating the unit with burning equipments, regularly ventilate the room to avoid oxygen insufficiency.





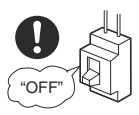
- Do not direct the cool air coming out from the air-conditioner panel to face household heating apparatus as this may affect the working of apparatus such as the electric kettle, oven etc.
- Please ensure that outdoor mounting frame is always stable, firm and without defect. If not, the outdoor unit may collapse and cause danger.



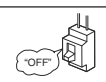


- Do not wash the unit with water or place a water container such as a vase on the indoor unit.
  Electrical leakage could be present and cause electric shock.
- Do not place plants or animals directly under the airflow as it is bad for the plants or animals.





- Be sure to stop the operation by using the remote controller and turn off the circuit breaker during cleaning, the high-speed fan inside the unit may cause danger.
- Turn off the circuit breaker if the unit is not be operated for a long period.





- Do not climb on the outdoor unit or put objects on it.
- When operating the unit with the door and windows opened, (the room humidity is always above 80%) and with the air deflector facing down or moving automatically for a long period of time, water will condense on the air deflector and drips down occasionally. This will wet your furniture. Therefore, do not operate under such condition for a long time.





- If the amount of heat in the room is above the cooling or heating capability of the unit (for example: more people entering the room, using heating equipments and etc.), the preset room temperature cannot be achieved.
- Indoor unit cleaning must be performed by authorized personnel only. Consult your sales agent.
  Using a commercially available detergent or similar can damage the plastic parts or clog the drain pipe, causing water to drip with potential electric shock hazard.





- Do not spray pesticides, flammable sprays, deodorants, antibacterial agents, etc. on indoor units. because it may cause fire, deformation, refrigerant leakage, or water leakage.



- Do not touch the air outlet, bottom surface and aluminium fin of the outdoor unit.
  You may get hurt.
- Do not touch the refrigerant pipe and connecting valve.
  Burns may result.



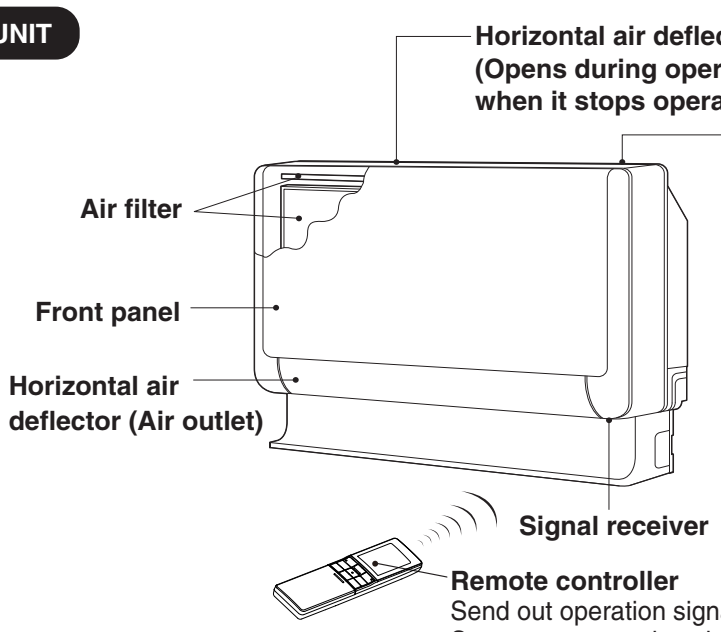
- This appliance is not to be used by children or persons with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction. Children must be supervised not to play with the appliance.

OPERATING RANGE

Operation mode	Cooling / Dehumidifying	Heating
Outdoor temperature	−10 to 46°C	−15 to 24°C

NAMES AND FUNCTIONS OF EACH PART

INDOOR UNIT



⚠ CAUTION

- Do not put anything in front of the signal receiver. Or else, it may not receive the signal properly.

Send out operation signal to the indoor unit.
So as to operate the whole unit.
(Refer Remote control manual)

MODEL NAME AND DIMENSIONS

MODEL	WIDTH	HEIGHT	DEPTH
RAF-XJ25QHAE, RAF-XJ35QHAE, RAF-XJ50QHAE	750mm (29-17/32")	590mm (23-6/25")	215mm (8-15/32")

NOTE FOR MULTI SYSTEM

Several indoor units can be connected to one outdoor unit.
You can operate only one unit or several units according to your needs.

Combination of operations:

When operation mode is selected:

- You cannot operate the indoor units in the following combinations.

One unit	Other unit
Heating	Cooling
	Dehumidifying
	Fan

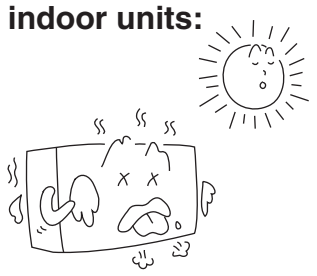
- The indoor unit which is turned on first continues to operate. Other indoor units which are turned on later go into standby mode and the ON/OFF lamp lights.
- To operate the indoor units turned on later, set the operation mode as same as the indoor unit turned on first.

During automatic operation:

- When heating operation is automatically selected for the first indoor unit, the next indoor unit will then start to heat. Also, if cooling or dehumidifying is automatically selected for the first indoor unit, the next indoor unit will also start to cool or dehumidify.

Adjusting the number of indoor units:

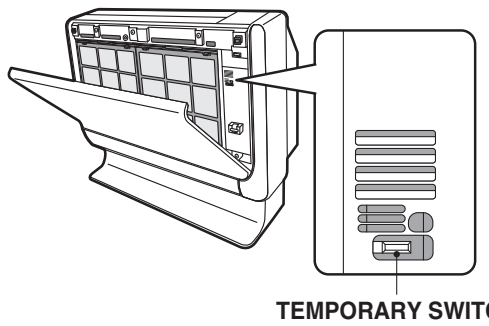
Decrease the number of indoor units to be operated especially when it is very hot or very cold or when you want to reach the preset temperature quickly.



Stopped indoor units:

When an indoor unit is operated in the cooling, heating or dehumidifying mode in one room, the sound of refrigerant flow may be heard from a stopped indoor unit or a stopped indoor unit may become warm. This is because the indoor unit returns refrigerant to the outdoor unit to be ready for operation.

TEMPORARY SWITCH



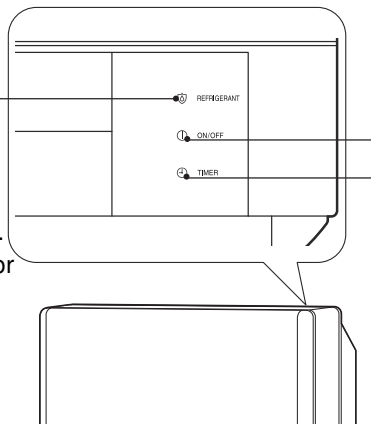
TEMPORARY SWITCH
Use this switch to start and stop when the remote controller does not work.

- By pressing the temporary switch, the operation is done in automatic mode.
- When the operation is done using the temporary switch after the power source is turned off and turn on again, the operation is done in automatic mode.

INDOOR UNIT INDICATORS

REFRIGERANT lamp
This lamp lights or blinks when the optional gas sensor be installed.

- This lamp lights when detected to refirgerant leakage in the indoor unit.
- This lamp blinks when the gas sensor over than its service life.



ON/OFF lamp
This lamp lights during operation.
During heating, the operation indicator may blink, glowing very lightly or totally stopping under the following conditions:

(1) **During preheating (heating operation)**
For about 2-3 minutes after start up.

(2) **During defrosting (heating operation)**
Defrosting will be performed about once an hour when frost forms on the heat exchanger of the outdoor unit, for 5-10 minutes each time. (If the piping length used is longer than usual, frost will likely to form.)

TIMER lamp
This lamp lights when the timer is working.

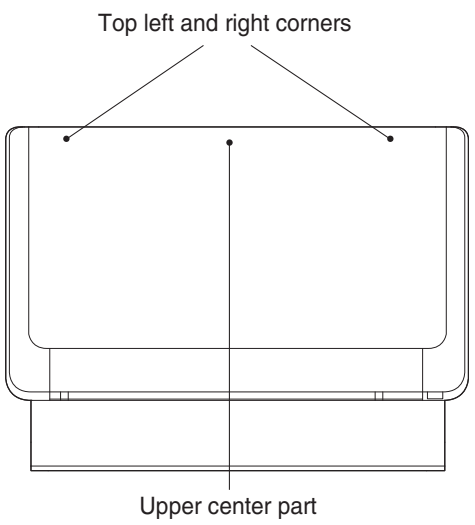
HOW TO OPEN OR CLOSE THE FRONT PANEL

Open the front panel

- To open the front panel, use the remote controller to stop unit operation. Then press at the top left and right corners of the front panel.
- Grasp the left and right sides of the front panel and open it toward you.

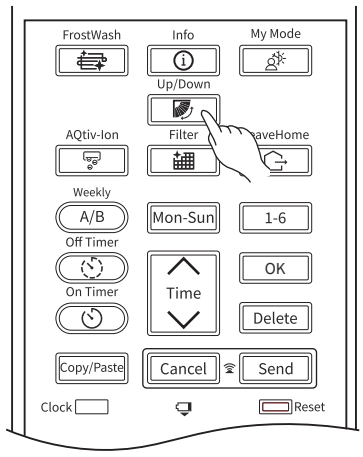
Close the front panel

- To close the front panel, press at the top left and right corners of the front panel.
- Press the upper center part of the front panel to close properly.

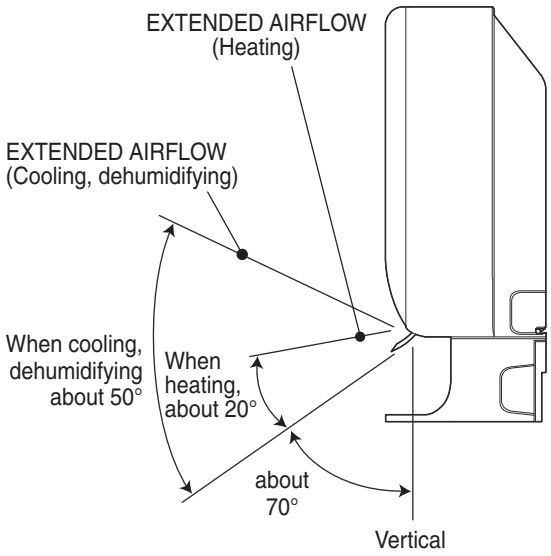


ADJUSTING THE AIR DEFLECTORS

1 Adjustment of the conditioned air in the upward and downward directions.
The horizontal air deflector is automatically set to the proper angle suitable for each operation. The deflector can be swung up and down continuously and also set to the desired angle using the " Up/Down (Up/Down)" button.

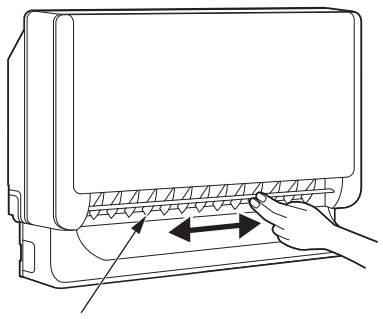


- If the " Up/Down (Up/Down)" button is pressed once, the horizontal air deflector swings up and down. If the button is pressed again, the deflector stops in its current position.
- Use the horizontal air deflector within the adjusting range shown in the right figure.
- When the " Up/Down (Up/Down)" button is pressed while the operation is stopped, the horizontal air deflector moves and stops at the position where the air outlet closes.
- When the auto swing operation is performed, if the horizontal air deflector is moved manually, the swinging range may drift. However, it will return to the original operation range after a short time.
- When the humid in the room is high during cooling or dehumidifying operation, the horizontal air deflector may automatically change to the straight direction to prevent dew (except during auto swing operation).
- For a certain period of time (about 30 minutes) after starting the cooling operation, it operates to cool the room quickly. During this operation, if the horizontal air deflector is adjusted to your preferred angle by " Up/Down (Up/Down) " button, it returns to the proper angle automatically after a certain period of time. In this case, press " Up/Down (Up/Down) " button to adjust the deflector to your preferred angle again.



2 Adjustment of the conditioned air to the left and right.

Hold the vertical air deflector as shown in the figure and adjust the conditioned air to the left and right.



⚠ CAUTION

- When operating the unit in cooling operation with the air deflector facing down and moving for a long period of time, water will be condensed on the air deflector and drips down occasionally. will wet your furniture.

CIRCUIT BREAKER

When you do not use the room air conditioner, set the circuit breaker to “OFF”.

HOW TO USE THE AIR CONDITIONER EFFECTIVELY

1. An average room temperature setting is probably the best for you as well as being economical.

- Excessive cooling or heating is not recommended for health reasons. High electricity bills may also result.
- Close the curtains or blinds to prevent heat from flowing into or escaping the room as well as to make more effective use of electricity.



2. At intervals, the doors and windows should be opened to let fresh air in.

⚠ CAUTION Make sure the room is ventilated when operating the air conditioner at the same time as other heating appliances.

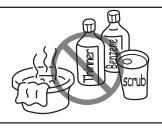


3. Using the timer is recommended before going to sleep or going out.



4. The following must never be used for cleaning the indoor and outdoor units:

- Benzine, thinner and scrub can damage plastic surfaces or coating.
- Hot water above 40°C can shrink the filter and deform plastic parts.



5. Do not block the air intake and air outlet.

- Do not block the air outlets and intakes of the indoor and outdoor units with curtains or other obstacles which could degrade air conditioner performance and cause unit failure.

MAINTENANCE

⚠ WARNING

- Before cleaning, stop unit operation with the remote controller and turn off the circuit breaker.

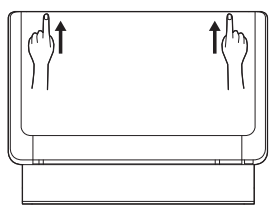
⚠ CAUTION

- Do not expose the unit to water as it may cause an electric shock.
- For cleaning inside the air conditioner, consult your sales agent.
- Avoid using detergent when cleaning the heat exchanger of the indoor unit. Unit failure may result.
- When cleaning the heat exchanger with a vacuum cleaner, make sure to wear gloves so as not to injure your hands on the heat exchanger fins.

1. AIR FILTER

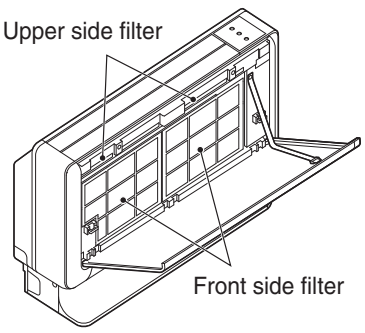
Clean the air filter, as it removes dust inside the room.
Be sure to clean the filter once every two weeks so as not to consume electricity unnecessarily.

PROCEDURE



1 **Open the front panel.**
- To open the front panel, use the remote controller to stop unit operation. Then press at the top left and right corners of the front panel.
- Grasp the left and right sides of the front panel and open it toward you.

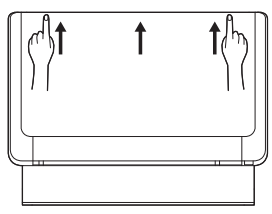
2 **Remove the filters.**
(Front side 2 pieces, upper side 2 pieces, total 4 pieces.)



3 **Remove dust of the filters using a vacuum cleaner.**
- After using neutral detergent, wash with clean water and dry in shade.



4 **Attach the filters.**
- Attaching the filters.
(Front side 2 pieces, upper side 2 pieces, total 4 pieces.)



5 **Close the front panel.**
- To close the front panel, press at the top left and right corners of the front panel.
- Press the upper center part of the front panel to close properly.

⚠ CAUTION

- Do not wash with hot water at more than 40°C. The filter may shrink.
- When washing it, shake off moisture completely and dry it in the shade; do not expose it directly to the sun. The filter may shrink. And also use a soft sponge to wash. Using a scrubber or brush cause the metal film on the surface to come off.
- Don't operate the unit without filter. Fault may occur if you continue.

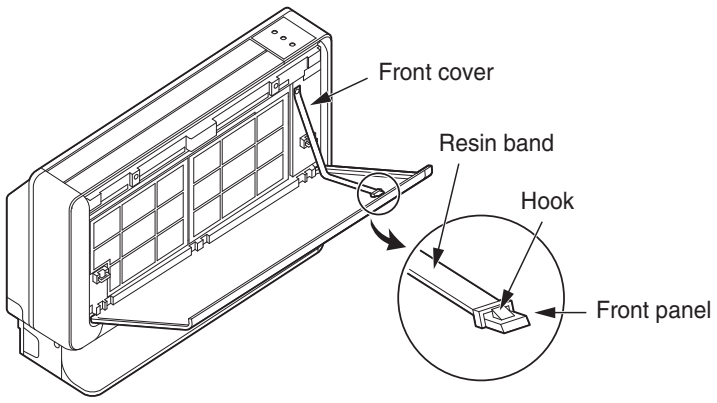
ENGLISH

2. HOW TO INSTALL AND REMOVE THE FRONT PANEL

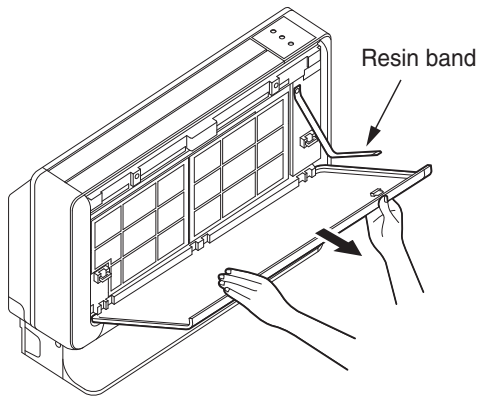
- Be sure to use both hands to grasp the front panel when removing it or attaching it.
- The front panel may be installed up or down to suit user preference.

Removing

① Press the hook found at the tip of the resin band installed inside the front panel's right section to remove the resin band.



② Pull the front panel down toward you and once fully open, pull it to remove.



Attaching

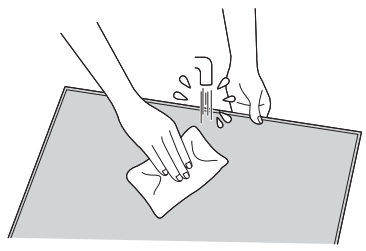
① Attach three front panel bearings to the axis of the front cover. (Set the hook to face up.)

② Insert the tip of the resin band into the hole of the protrusion inside the right section of the front panel.

3. CLEANING OF FRONT PANEL

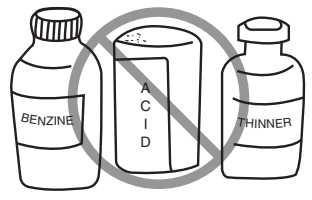
The front panel can be washed in water. It can be kept clean at all times.

- Front panel can be removed and washed in water. Gently clean the front panel using a soft sponge.
- When the air conditioner is to be cleaned without removing the front panel, clean both the body and remote controller with a dry soft cloth.
- Wipe off water completely. If water remains on the display section or light receiver section, this could cause a malfunction.



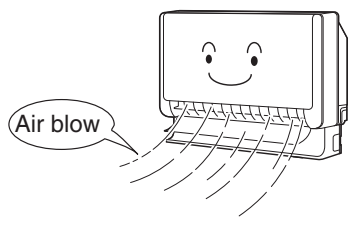
⚠ CAUTION

- Do not splash or direct water to the body of the unit when cleaning it as this may cause short circuit.
- Never clean with hot water (above 40°C), benzine, gasoline, acid, thinner or a brush, because it will damage the plastic surface and the coating.



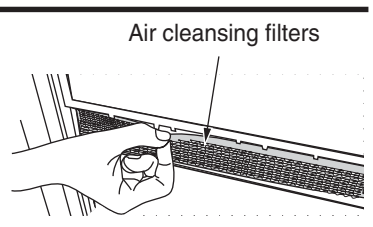
4. MAINTENANCE AT BEGINNING OF LONG OFF PERIOD

- Activating air conditioner drying will keep the interior of the indoor unit dry and prevent mold formation.
- Turn off the circuit breaker.



5. AIR CLEANSING FILTERS (SPX-VSZ1)

- When installing the air cleansing filters, remove the air filters and attach them onto the hooks of the front cover frame.
- The cooling capacity is slightly weakened and the cooling speed becomes slower when the air cleansing filters are used. So, set the fan speed to "HIGH" when using it in this condition.
- The air cleansing filters can be used for 2 years.



6. REFRIGERANT SENSOR (SPX-RAFGLS)

- Service life of gas sensor is about 5 years.
- The refrigerant lamp will lights 4s and out 1s in cycle start from last a month of service life.
- The machine still can be operated at the time, Please replace the gas sensor before over service life.
- And refrigerant lamp be changed to lights 1s and out 1s in cycle after over service life, Please don't operate the machine unless replace the gas sensor.

When refrigerant lamp lights or blinks is

- During the gas sensor parts be installed as optional, Information details of refrigerant lamp lights or blinks as follows

REFRIGERANT lamp lights	■During buzzer sounding beep from the indoor unit Due to refrigerant leakage be detected with gas sensor, Please air exchange this room and connect your sales agent in time. Push ⏻ (Start / Stop) button or temporary switch to stop beep of buzzer. Fan operation be stopped automatically if no refrigerant leakage being constantly detected. (Customers be unable to stop fan operation by oneself) If even stopped beep of buzzer, Gas sensor still keep to detecting the refrigerant concentration during indoor fan continuous operation, Due to refrigerant concentration increase to be fire risk, Please keep air exchange via open window or other. Please do not turn off the breaker until fan stop operation. ■During buzzer no sounding on indoor unit The refrigerant leakage has been detected from this indoor unit at the past. Please connect your sales agent. Also refrigerant leakage still being detected during fan operation, Please continuous keep air exchange in room.
REFRIGERANT lamp blinks	■The refrigerant lamp lights 4s and out 1s in cycle start from last a month of service life. The machine still be able to be operated during this period , Please replace the gas sensor before over service life. ■The refrigerant lamp lights 1s and out 1s in cycle after over service life, Please don't operate the machine unless replace the gas sensor.

- Please keeping to turn on the circuit breaker for refrigerant leakage detection in usual.
- Please do not use hair spray, pesticide and so on near by the machine, May cause the machine can't be operated due to error info be detected with gas sensor.

INFORMATION

CAPABILITIES

Heating Capability

- This room air conditioner utilizes a heat pump system that absorbs exterior heat and brings it into a room to be heated. As the ambient temperature gets lower, heating capability will also lower. In such a situation, the PAM and inverter work to increase compressor rpm to keep the unit's heating capability from decreasing. If the unit's heating performance is still unsatisfactory, other heating appliances should be used to augment this unit's performance.

CAUTION

Do not use a stove or any other high-temperature devices in proximity to the indoor unit.



PROHIBITION

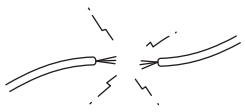
- The air conditioner is designed to heat an entire room so that it may take some time before you feel warm. Timer operation is recommended for effective preheating ahead of the desired time.

Cooling and Dehumidifying Capabilities

- If the heat present in a room exceeds the unit's cooling capacity (for example, if there are many people in the room or other heating appliances are used), the preset room temperature may not be reached.

REGULAR INSPECTION

PLEASE CHECK THE FOLLOWING POINTS EVERY EITHER HALF YEARLY OR YEARLY. CONTACT YOUR SALES AGENT SHOULD YOU NEED ANY HELP.

1		⚠ **WARNING**	**Check to see if the unit's earth line has been connected correctly.** If the earth line is disconnected or faulty, unit failure or electric shock hazard may result.
2		⚠ **WARNING**	**Check to see if the mounting frame has rusted excessively or if the outdoor unit has tilted or become unstable.** It could collapse or fall, causing injury.

AFTER SALES SERVICE AND WARRANTY

WHEN ASKING FOR SERVICE, CHECK THE FOLLOWING

CONDITION	CHECK THE FOLLOWING POINTS
If the remote controller is not transmitting a signal. (Remote controller display is dim or blank.)	• Do the batteries need replacement? • Is the polarity of the inserted batteries correct?
When it does not operate.	• Is the fuse all right? • Is the voltage extremely high or low? • Is the circuit breaker "ON"? • Is the setting of operation mode different from other indoor units? • Do the refrigerant lamp lights or blinks on the indoor unit?
When it does not cool well. When it does not heat well.	• Is the air filter blocked with dust? • Is the set temperature suitable? • Have the top and bottom air deflectors been adjusted to their correct positions according to the operation mode selected? • Are the air inlets or air outlets of indoor and outdoor units blocked? • Is the fan speed "LOW" or "SILENT"?

Mold Guard Operation

Mold Guard operation does not start	If the air conditioner operation is stopped after heating operation, Mold Guard will not operate. If the air conditioner has operated in cooling and drying mode, including auto mode, for less than 10 minutes, the Mold Guard operation will not start even if the air conditioner is in off mode. If operation of the air conditioner is stop by OFF Timer or GoodSleep Timer, the Mold Guard will not operate. If ON Timer is set and on time is within about 2 hours, the Mold-Guard will not operate.
During Mold Guard	⏻ (ON/OFF Lamp) on the indoor unit blinks up during Mold Guard operation. If Mold Guard operation stop at middle point, FrostWash and Filter sign indicator will turn off.
Notes	The horizontal deflector remain open. Room temperature or humidity may rise. When there would be the window near indoor unit, the water might condense on the window during Mold Guard. If necessary, to cancel Mold Guard. When after FrostWash operation, the water inside the indoor unit evaporates and, depending on the room conditions, may emitted as steam. But this is not a malfunction. If necessary, to cancel Mold-Guard.

■ The following phenomena do not indicate unit failure.

During heating, the ON/OFF lamp blinks and air blow stops	<Operation start> The unit is preparing to blow warm air. Please wait. <In operation> The outdoor unit is defrosting. Please wait.
Hissing or fizzy sounds	Refrigerant flow noise in the pipe or valve sound generated when flow rate is adjusted.
Squeaking noise	Noise generated when the unit expands or contracts due to temperature changes.
Rustling noise	Noise generated with the indoor unit fan's rpm changing such as operation start times.
Clicking noise	Noise of the motorized valve when the unit is switched on.
Perking noise	Noise of the ventilation fan sucking in air present in the drain hose and blowing out dehumidifying water that had accumulated in the condensed water collector. For details, consult your sales agent.
Changing operation noise	Operation noise changes due to power variations according to room temperature changes.
Mist emission	Mist is generated as the air within the room is suddenly cooled by conditioned air.
Steam emitted from the outdoor unit	Water generated during defrosting operation evaporates and steam is emitted.
Odors	Caused as the smells and particles of smoke, food, cosmetics, etc. present in room air become attached the unit and blown off into the room again.
The outdoor unit continues to operate even if operation is stopped	Defrosting is underway (as the heating operation is stopped, the microcomputer checks frost accumulated in the indoor unit and instructs the unit to perform automatic defrosting if necessary).
The ON/OFF lamp is blinking	Shows preheating or defrosting operation is underway. As the protective circuit or preheat sensor operates when unit operation is stopped during preheating and then restarted, or when operation mode is switched from cooling to heating, the lamp continues to blink.
Does not reach the temperature setting	Actual room temperature may deviate slightly from the remote controller's temperature setting depending on the number of people in the room, indoor or outdoor conditions when the air conditioner is used for more than one room at the same time.

- If the unit still fails to operate normally after performing the above inspections, turn the circuit breaker off and contact your sales agent immediately.

Contact your sales agent immediately if the following phenomena should occur:



- The circuit breaker switches off or the fuse blows frequently.
- The switch operation is not stable.
- Foreign matter or water accidentally enters the unit interior.
- The power cord gets excessively hot or its insulation is torn or stripped.
- TIMER lamp on the indoor unit display blinks.

  (As the nature of the failure can be identified by the blinking cycle, check the blinking cycle before turning off the circuit breaker.)

- REFRIGERANT lamp lights or blinks on the indoor unit.

  (Please keeping to turn on the circuit breaker if the refrigerant lamp was light.)



Notes

- In quiet operation or stopping the running, the following phenomena may occasionally occur, but they are not abnormal for the operation.
  (1) Slight flowing noise of refrigerant in the refrigerating cycle.
  (2) Slight rubbing noise from the fan casing which is cooled and then gradually warmed as operation stops.
- The odor will possibly be emitted from the room air conditioner because the various odor, emitted by smoke, foodstuffs, cosmetics and so on, sticks to it. So please clean the air filter and the evaporator regularly to reduce the odor.

- Please contact your sales agent immediately if the air conditioner still fails to operate normally after the above inspections. Inform your agent of the model of your unit, production number, date of installation. Please also inform him regarding the fault.

Please note:
On switching on the equipment, particularly when the room light is dimmed, a slight brightness fluctuation may occur. This is of no consequence.
The conditions of the local Power Supply Companies are to be observed.