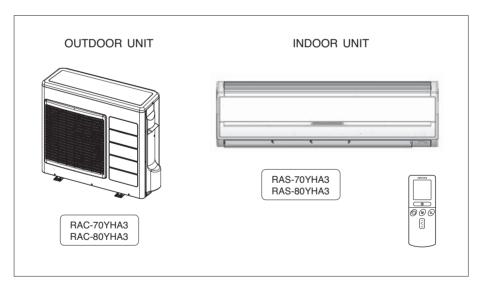


SPLIT TYPE

INDOOR UNIT/OUTDOOR UNIT

MODEL

RAS-70YHA3/RAC-70YHA3 RAS-80YHA3/RAC-80YHA3



Instruction manual

To obtain the best performance, please read this instruction manual completely.

Page 1~24



SAFETY PRECAUTION

- Please read the "Safety Precaution" carefully before operating the unit to ensure correct usage of the unit.
- Pay special attention to signs of "A Warning" and "A 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 sign indicate the following meanings.

Make sure to connect earth line.

The 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.



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.



Be sure to use the specified piping set for R410A. Otherwise, this may result in broken copper pipes or faults.

- 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 outdoor unit may catch fire if flammable gas leaks around it.





- Please ensure smooth flow of water when installing the drain hose.
- Do not install the indoor unit in a machine shop or kitchen where vapor from oil or its mist flows to the indoor unit. The oil will deposit on the heat exchanger, thereby reducing the indoor unit performance and may deform and in the worst case, break the plastic parts of the indoor unit.

PRECAUTIONS DURING SHIFTING OR MAINTENANCE

A W Α R N П Ν

G

A

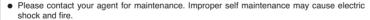
W

Α R

N ı

N G Should abnormal situation arises (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 if you need to remove and reinstall the unit. Electric shock or fire may occur if you remove and reinstall the unit yourself improperly.
- If the supply cord is damaged, it must be replaced by the special cord obtainable at authorized service/parts centers.

PRECAUTIONS DURING OPERATION

Avoid an extended period of direct air flow for your health.





- Do not insert a finger, a rod or other objects into the air outlet or inlet. As the fan is rotating at a high speed, it will cause injury. Before cleaning, be sure to stop the operation and turn the breaker OFF.
- Do not use any conductor as fuse wire, this could cause fatal accident.





- · During thunder storm, disconnect 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.









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.

• The product shall be operated under the manufacturer specification and





- 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 splash or direct water to the body of the unit when cleaning it as this
 may cause short circuit.
- Do not use any aerosol or hair sprays near the indoor unit. This chemical
 can adhere on heat exchanger fin and blocked the evaporation water flow to
 drain pan. The water will drop on tangential fan and cause water splashing
 out from indoor unit.





- Please switch off the unit 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 to be operated for a long period.





- Do not climb on the outdoor unit or put objects on it.
- Do not put water container (like vase) on the indoor unit to avoid water dripping into the unit. Dripping water will damage the insulator inside the unit and causes short-circuit.



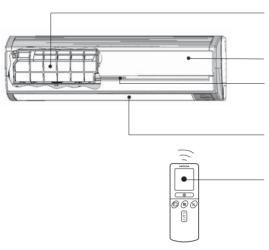


- Do not place plants directly under the air flow as it is bad for the plants.
- When operating the unit with the door and windows opened, (the room humidity is always above 80%) and with the air deflector facing down or moving automatically for a long period of time, water will condense on the air deflector 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.
- This appliance is not intended for use by young children or infirm persons unless they have been
 adequately supervised by a responsible person to ensure that they can use the appliance safely.
- Young children should be supervised to ensure that they do not play with the appliance.





INDOOR UNIT



PRE-FILTER

To prevent dust from coming into the indoor unit. (Refer page 20)

FRONT PANEL (AIR INLET)

INDOOR UNIT INDICATORS

Light indicator showing the operating condition. (Refer page 5)

HORIZONTAL DEFLECTOR • VERTICAL DEFLECTOR (AIR OUTLET)

(Refer page 15)

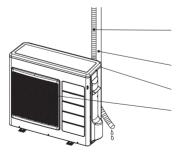
REMOTE CONTROLLER

Send out operation signal to the indoor unit. So as to operate the whole unit. (Refer page 6)

NOTE

- Air purifying filters are washable and can be use in 1 year time. Type number for this air purifying filter is <SPX-CFH19>. Please use this number for ordering when you want to renew it.
- Air purifying filter should be cleaned every month or sooner if noticeable loading occurs. When
 used overtime, it may lose its deodorizing function. For maximum performance, it is recommended
 to replace it every 1 year depending on application requirements.

OUTDOOR UNIT



DRAIN PIPE

Condensed water drain to outside.

CONNECTING CORD

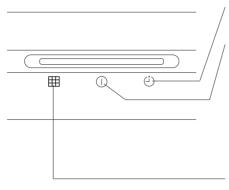
AIR INLET (BACK, LEFT SIDE)

AIR OUTLET

MODEL NAME AND DIMENSIONS

MODEL	WIDTH (mm)	HEIGHT (mm)	DEPTH (mm)
RAS-70YHA3 / RAS-80YHA3	1150	333	245
RAC-70YHA3 / RAC-80YHA3	850	800	298

INDOOR UNIT INDICATORS



TIMER LAMP

This lamp lights when the timer is working.

OPERATION LAMP

This lamp lights during operation.

The OPERATION LAMP flashes in the following cases during heating.

(1) During preheating

For about 2-3 minutes after starting up.

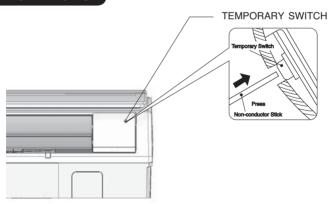
(2) During defrosting

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.

FILTER LAMP

When the device is operated for a total of about 200 hours, the FILTER lamp lights to indicate that it is time to clean the filter. The lamp goes out when the " (AUTO SWING)" button is pressed while the device is on "STANDBY MODE".

OPERATION INDICATOR



TEMPORARY SWITCH

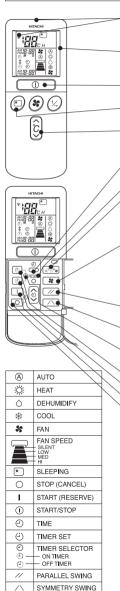
Use this switch to start and stop when the remote controller does not work. [Use non-conductor stick (example: toothpick)]

- By pressing the temporary switch, the operation is done in previously set operation 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.

NAMES AND FUNCTIONS OF REMOTE CONTROL UNIT

REMOTE CONTROLLER

- This controls the operation of the indoor unit. Signal range to reach indoor is about 7 meters. If inverter lamp is used, the range of control may be shorter.
 - This unit can be fixed on a wall using the fixture provided. Before fixing it, make sure the indoor unit can be controlled from the remote controller.
- Handle the remote controller with care. Dropping it or getting it wet may compromise its signal transmission capability.
- After new batteries are inserted into the remote controller, the unit will initially require approximately 10 seconds to respond to commands and operate.



Signal emitting window/transmission sign

Point this window toward the indoor unit when controlling it.

The transmission sign blinks when a signal is sent.

Display

This indicates the room temperature selected, current time, timer status, function and intensity of circulation selected.

START/STOP button

Press this button to start operation. Press it again to stop operation.

SLEEP button

Use this button to set the sleep timer.

TEMPERATURE buttons

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

TIME button

Use this button to set and check the time and date.

RESET buttons

FUNCTION selector

Use this button to select the operating mode. Every time you press it, the mode will change from ♠ (AUTO) to ♣ (HEAT) to △ (DEHUMIDIFY) to ♣ (COOL) and to ♣ (FAN) cyclically.

FAN SPEED selector

This determines the fan speed. Every time you press this button, the intensity of circulation will change from (AUTO) to (HI) to (MED) to (LOW) to (SILENT) (This button allows selecting the optimal or preferred fan speed for each operation mode).

PARALLEL SWING button

Controls the angle of the vertical air deflectors to parallel.

SYMMETRY SWING button

Controls the angle of the vertical air deflectors to symmetry.

TIMER control

Use this button to set the timer.

- OFF-TIMER button Select the turn OFF time.
- ON-TIMER button Select the turn ON time.
- RESERVE button Time setting reservation.
- CANCEL button Cancel time reservation.

Precautions for Use

- Do not put the remote controller in the following places.
 - Under direct sunlight.
 - In the vicinity of a heater.
- Handle the remote controller carefully. Do not drop it on the floor, and protect it from water.
- Once the outdoor unit 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.

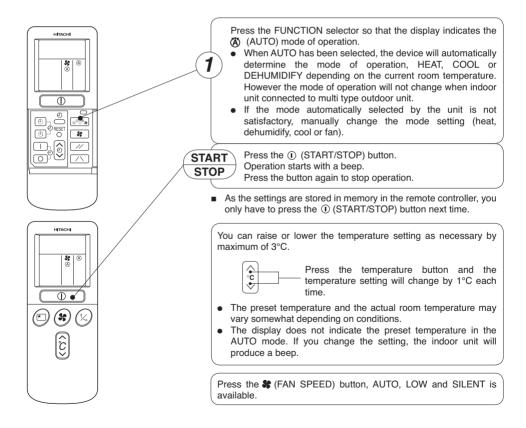
 If you press the FUNCTION selector button during operation, the device may stop for about 3 minutes for protection.

■ Auto Restart Control

- If there is a power failure, operation will be automatically restarted when the power is resumed with previous operation mode and airflow direction.
 - (As the operation is not stopped by remote controller.)
- If you intend not to continue the operation when the power is resumed, switch off the power supply.
 When you switch on the circuit breaker, the operation will be automatically restarted with previous operation mode and airflow direction.
 - Note: 1. If you do not require Auto Restart Control, please consult your sales agent or OFF by remote control.
 - 2. Auto Restart Control is not available when Timer or Sleep Timer mode is set.

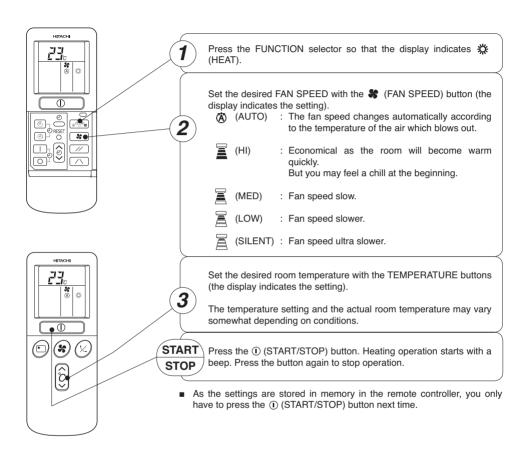
AUTOMATIC OPERATION

The device will automatically determine the mode of operation, HEAT, COOL or DEHUMIDIFY depending on the current room temperature. The selected mode of operation will change when the room temperature varies. However the mode of operation will not change when indoor unit connected to multi type outdoor unit.



HEATING OPERATION

- Use the device for heating when the outdoor temperature is under 21°C.
 When it is too warm (over 21°C), the heating function may not work in order to protect the device.
- In order to keep reliability of the device, please use this device above -15°C of the outdoor temperature.



■ Defrosting

Defrosting will be performed about once an hour when frost forms on the heat exchange of the outdoor unit, for 5~10 minutes each time.

During defrosting operation, the operation lamp blinks in cycle of 3 seconds on and 0.5 second off.

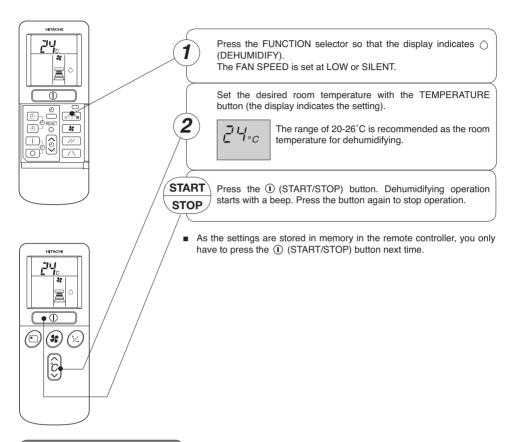
The maximum time for defrosting is 20 minutes.

However, if it is connected to multi type outdoor unit, the maximum time for defrosting is 15 minutes.

(If the piping length used is longer than usual, frost will likely to form.)

DEHUMIDIFYING OPERATION

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.

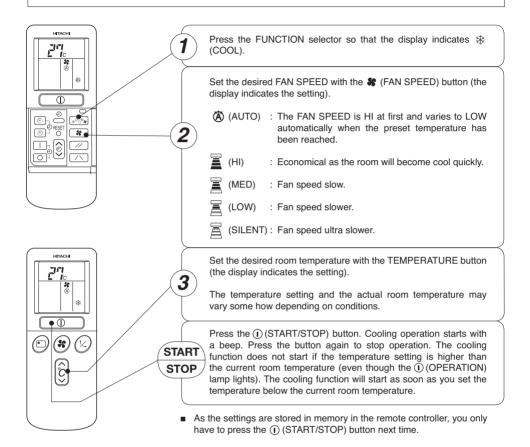


■ Dehumidifying Function

- When the room temperature is higher than the temperature setting: The device will dehumidify the room, reducing 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 indoor unit will stop emitting air) as soon as the room temperature becomes lower than the setting temperature.
- The preset room temperature may not be reached depending on the number of people present in the room or other room conditions.

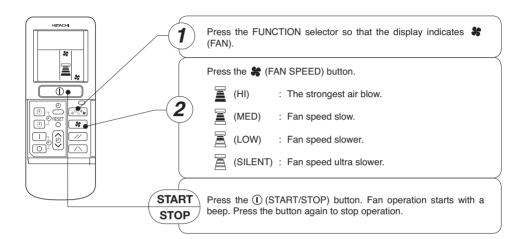
COOLING OPERATION

Use the device for cooling when the outdoor temperature is $-10 \sim 46^{\circ}$ C. If indoors humidity is very high (80%), some dew may form on the air outlet grille of the indoor unit.



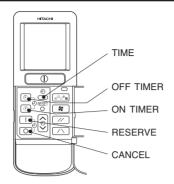
FAN OPERATION

You can use the device simply as an air circulator. Use this function to dry the interior of the indoor unit at the end of summer.



FAN SPEED (AUTO) When the AUTO fan speed mode is set in the cooling/heating operation:

For the heating operation	 The fan speed will automatically change according to the temperature of discharged air. When the difference of room temperature and setting temperature is large, fan starts to run at HI speed. When the room temperature reaches setting temperature, fan speed changes to LOW automatically.
For the cooling operation	 When the difference of room temperature and setting temperature is large, fan starts to run at HI speed. After room temperature reaches the preset temperature, the cooling operation, fan speed changes to LOW automatically.



Time After you change or replace the batteries.

1 Set the (TIME) button.

2 Press the 🕘 (TIME) button.

3 Set the current time with the TIMER control button.

4 Press the (TIME) button again. The time indication starts lighting instead of flashing.





DE::1:30

Example: The current time is 1:30 p.m.

- The time indication will disappear automatically in 10 second.
- To check the current time setting, press the (1) (TIME) button twice.

The setting of the current time is now complete.

OFF-Timer



1 Press the (1) (OFF-TIMER) button. The (4) (OFF) mark blinks on the display.

2 Set the turnoff time with the TIMER control button.

3 Point the signal window of the remote controller toward the indoor unit, and press the (RESERVE)

The (1) (OFF) mark starts lighting instead of flashing and the sign (i) (RESERVED) lights. A beep occurs and the (1) (TIMER) lamp lights on the indoor unit.

You can set the device to turn off at the preset time.





Example: The device will turn off at 11:00p.m.

The setting of turn-off time is now complete.

ON-Timer



 The device will turn on at the designated times.

1 Press the (1) (ON-TIMER) button the (1) (ON) mark blinks on the

display.

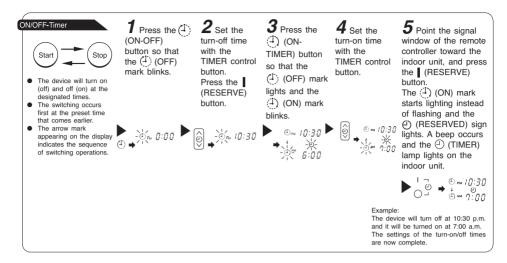
2 Set the turnon time with the TIMER control button.

3 Point the signal window of the remote controller toward the indoor unit, and press the (RESERVE)

The (1) (ON) mark starts lighting instead of flashing and the (i) (RESERVED) sign lights. A beep occurs and the (1)(TIMER) lamp lights on the indoor unit.

► ⊕ → ₩ 5:00 ► @ → ₩ 7:00 **)**

The device will turn on at 7:00 a.m. The setting of the turn-on time is now complete.



- The timer may be used in three ways: off-timer, on-timer, and ON/OFF (OFF/ON)-timer. Set the current time at first because it serves as a reference.
- As the time settings are stored in memory in the remote controller, you only have to press the (RESERVE) button in order to use the same settings next time.

How to Cancel Reservation

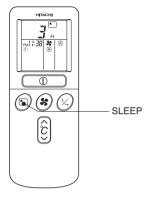
Point the signal window of the remote controller toward the indoor unit, and press the \bigcirc (CANCEL) button.

The ① (RESERVED) sign goes out with a beep and the ① (TIMER) lamp turns off on the indoor unit.

NOTE

You can set only one of the OFF-timer, ON-timer and ON/OFF-timer.

Set the current time at first if it is not set before (see the pages for setting the current time). Press the (SLEEP) button, and the display changes as shown below.



Mode	Indication
Sleep timer	1 hour → 2 hours → 3 hours → 7 hours → Sleep timer off

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 button.

The timer information will be displayed on the remote controller. The TIMER lamp lights with a beep from the indoor unit. When the sleep timer has been set, the display indicates the turn-off time.



Example: If you set 3 hours sleep time at 11:38 p.m., the turn-off time is 2:38 a.m.



The device will be turned off by the sleep timer and turned on by on-timer.

1 Set the ON-timer.

 $oldsymbol{2}$ Press the $^{oldsymbol{\pm}}$ (SLEEP) button and set the sleep timer.



For heating:

In this case, the device will turn off in 2 hours (at 1:38 a.m.) and it will be turned on 6:00 next morning.

How to Cancel Reservation

Point the signal window of the remote controller toward the indoor unit, and press the \bigcirc (CANCEL) button. The 0 (RESERVED) sign goes out with a beep and the 0 (TIMER) lamp turns off on the indoor unit.

ADJUSTING THE AIR DEFLECTOR



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 "(X) (AUTO SWING)" button.

- If the " (AUTO SWING)" 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. Several seconds (about 6 seconds) may be required before the deflector starts to move.
- Use the horizontal air deflector within the adjusting range shown on the right.
- When the operation is stopped, the horizontal air deflector moves and stops at the position where the air outlet closes.

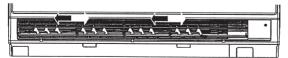


 In "Cooling" operation, do not keep the horizontal and vertical air deflector swinging for a long time. Some dew may form on the horizontal and vertical air deflector and dew may drop.



Adjustment of the conditioned air in the left and right directions.

- If the " (PARALLEL SWING)" button is pressed once, the vertical air deflectors swing left and right to parallel. If the button is pressed again, the deflectors stop in their current position. Several second (about 6 seconds) may be required before the deflectors start to move.
- PARALLEL SWING

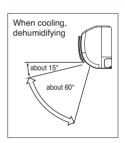


SYMMETRY SWING

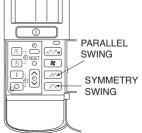












HOW TO EXCHANGE THE BATTERIES IN THE REMOTE CONTROLLER



Remove the cover as shown in the figure and take out the old batteries.





Install the new batteries.

The direction of the batteries should match the marks in the case.

Push and pull to the direction of arrow



A CAUTION

- Do not use new and old batteries, or different kinds of batteries together.
- Take out the batteries when you do not use the remote controller for 2 or 3 months.

TEMPORARY SWITCH

If the remote controller does not work due to battery failure, press this switch to start and stop operation.

This temporary operation will be at the setting made most recently. (The unit will immediately go into automatic
operation once power is switched off and on.)

CIRCUIT BREAKER

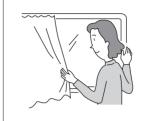
When you do not use the room air conditioner, set the circuit breaker to "OFF".

Suitable Room Temperature



A Warning
Freezing temperature
is bad for health and
a waste of electric
power.

Install curtain or blinds



It is possible to reduce heat entering the room through windows.

Ventilation

A Caution

Do not close the room for a long period of time. Occasionally open the door and windows

to allow the entrance of fresh air.



Effective Usage Of Timer

At night, please use the "OFF or ON timer operation mode", together with your wake up time in the morning. This will enable you to enjoy a comfortable room temperature. Please use the timer effectively.



Do Not Forget To Clean The Pre-Filter

Dusty pre-filter will reduce the air volume and the cooling efficiency. To prevent from wasting electric energy, please clean the pre-filter every 2 weeks.



Please Adjust Suitable Temperature For Baby And Children

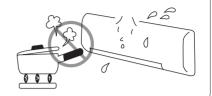
Please pay attention to the room temperature and air flow direction when operating the unit for baby, children and old folks who have difficulty in movement



The Air Conditioner And The Heat Source In The Room

A Caution

If the amount of heat in the room is above the cooling capability of the air conditioner (for example: more people entering the room, using heating equipments and etc.), the preset room temperature cannot be achieved.



Not Operating For A Long Time

When the indoor unit is not to be used for a long period of time, please switch off the power from the mains. If the power from mains remains "ON", the indoor unit still consumes about 10W in the operation control circuit even if it is in "OFF" mode.



When Lightning Occurs

A Warning

To protect the whole unit during lightning, please stop operating the unit and remove the plug from the socket.



Interference From Electrical Products

A Caution

To avoid noise interference, please place the indoor unit and its remote controller at least 1m away from electrical products.



ATTACHING THE AIR PURIFYING FILTERS

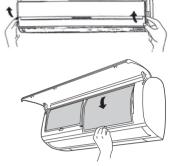
A CAUTION

Cleaning and maintenance must be carried out only by qualified service personnel. Before cleaning, stop operation and switch off the power supply.



Open the front panel.

Pull up the front panel by holding it at both sides with both hands.



Remove the pre-filter.

Push upward to release the claws and pull out the pre-filter.



Attaching the air purifying filters to the pre-filter.

Attach the air purifying filters to the frame by gently compress its both sides and release after insertion into pre-filter frame.



Claws

(4 places)

A CAUTION

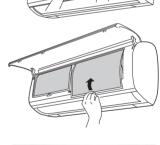
Do not bend the air purifying filter as it may cause damage to the structure.





Attach the pre-filters.

- Attach the pre-filters by ensuring that the surface written "FRONT" is facing front.
- · After attaching the pre-filters, push the front panel at three arrow portion as shown in figure and close it.





NOTE

- In case of removing the air purifying filters, please follow the above procedures.
- The cooling capacity is slightly weakened and the cooling speed becomes slower when the air purifying filters are used. So, set the fan speed to "HIGH" when using it in this condition.
- Do not operate the air conditioner without pre-filter. Dust may enter the air conditioner and fault may occur.



MAINTENANCE

A CAUTION

Cleaning and maintenance must be carried out only by qualified service personnel. Before cleaning, stop operation and switch off the power supply.

1. PRE-FILTER

Clean the pre-filter, as it removes dust inside the room. In case the pre-filter is full of dust, the air flow will decrease and the cooling capacity will be reduced. Further, noise may occur. Be sure to clean the pre-filter following the procedure below.

PROCEDURE



- Open the front panel and remove the pre-filter
- Gently lift and remove the air purifying filter from the pre-filter frame.



Vacuum dust from the pre-filter and air purifying filter using vacuum cleaner. If there is too much dust, pre-filter only rinse under running tap water and gently brush it with soft bristle brush. Allow pre-filters to dry in shade.





- Re-insert the air purifying filter to the filter frame. Set the filter with "FRONT" mark facing front, and slot them into the original state.
- After attaching the pre-filters, push the front panel at three arrow portions as shown in figure and close it.







NOTE:

• Air purifying filter should be cleaned every month or sooner if noticeable loading occurs. When used overtime, it may lose its deodorizing function. For maximum performance, it is recommended to replace it every 1 year depending on application requirements.

A 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.
- Do not use detergent on the air purifying filter as some detergent may deteriorate the filter electrostatic performance.

2. Washable Front Panel

- Remove the front panel and wash with clean water.
 Wash it with a soft sponge.
 - After using neutral detergent, wash thoroughly with clean water.
- When front panel is not removed, wipe it with a soft dry cloth. Wipe the remote controller thoroughly with a soft dry cloth.
- Wipe the water thoroughly.
 If water remains at indicators or signal receiver of indoor unit, it causes trouble.

Method of removing the front panel.

Be sure to hold the front panel with both hands to detach and attach it.



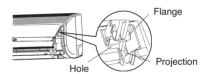


Removing the Front Panel



 When the front panel is fully opened with both hands, push the right arm to the inside to release it, and while closing the front panel slightly, put it out forward.

Attaching the Front Panel



 Move the projections of the left and right arms into the Flanges in the unit and securely insert them into the holes.

A CAUTION

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

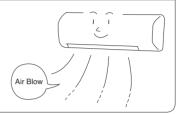


A CAUTION

Cleaning and maintenance must be carried out only by qualified service personnel. Before cleaning, stop operation and switch off the power supply.

3. MAINTENANCE BEFORE LONG OFF PERIOD

- Switch off the power plug.



REGULAR INSPECTION

PLEASE CHECK THE FOLLOWING POINTS BY QUALIFIED SERVICE PERSONNEL EITHER EVERY HALF YEARLY OR YEARLY. CONTACT YOUR SALES AGENT OR SERVICE SHOP.

1		Is the earth line disconnected or broken?
2		Is the mounting frame seriously affected by rust and is the outdoor unit tilted or unstable?
3	Confirm	Is the plug of power line firmly plugged into the socket? (Please ensure no loose contact between them).

WHEN ASKING FOR SERVICE, CHECK THE FOLLOWING POINTS

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? 	
When it does not cool well When it does not hot well	Is the air filter blocked with dust? Does sunlight fall directly on the outdoor unit? Is the air flow of the outdoor unit obstructed? Are the doors or windows opened, or is there any source of heat in the room? Is the set temperature suitable? Are the air inlets or air outlets of indoor and outdoor units blocked? Is the fan speed "LOW" or "SILENT"?	



Notes

- In quiet operation or stopping the operation, the following phenomena may occassionally 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 the air filter and the evaporator regularly must be cleaned 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.
- Power supply shall be connected at the rated voltage, otherwise the unit will be broken or could not reach the specified capacity.

NOTE:

- If the supply cord is damaged, it must be replaced by the special cord obtainable at authorized service parts centers.
- 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.

Note

MEMO

 Avoid to use the room air conditioner for cooling operation when the outside temperature is below -10°C (14°F).

The recommended maximum and minimum operating temperatures of the hot and cold sides should be as below:

		Cooling Heating		ating	
		Minimum	Maximum	Minimum	Maximum
Indoor	Dry bulb °C	21	32	20	27
	Wet bulb °C	15	23	12	19
Outdoor	Dry bulb °C	21	46	2	21
	Wet bulb °C	15	26	1	15