

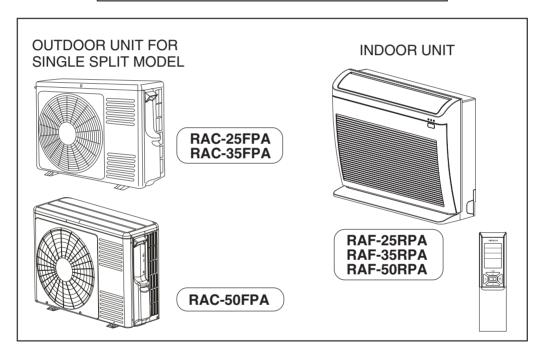
SPLIT TYPE AIR CONDITIONER

INDOOR UNIT/OUTDOOR UNIT



MODEL

RAF-25RPA / RAC-25FPA RAF-35RPA / RAC-35FPA RAF-50RPA / RAC-50FPA



Instruction manual

Page 1~12

To obtain the best performance and ensure years of trouble free use, please read this instruction manual completely.

Bedienungsanleitung

Seite 13~24

Bitte lesen Sie diese Bedienungsanleitung aufmerksam durch, um durch richtige Bedienung jahrelangen und störungsfreien Betrieb zu gewährleisten.

Mode d'emploi

Page 25~36

Des performances optimales et un fonctionnement à long terme seront assurés en appliquant les présentes instructions après avoir entièrement lu ce mode d'emploi.

Manuale di istruzioni

Pag. 37~48

Per garantire la migliore prestazione e la più lunga Durata leggere attentamente e interamente le seguanti istruzioni.

Manual de instrucciones

Página 49~60

Para obtener el mejor funcionamiento y asegurar años de uso libre de problemas, lea cuidadosamente este manual de instrucciones.

Manual de instruções

Página 61~72

A fim de obter um bom funcionamento e de garantir uma utilização sem falhas durante muitos anos, é favor ler este manual de instruções completamente.

Οδηγίες χρήσεως

σελίδα 73~84

Γιά να είναι εγγυημένη η καλύτερη δυνατή λειτουργία και η χωρίς βλάβες μακροχρόνια χρήση της συσκευής, διαβάστε όλες τις κάτωθι οδηγίες.

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 signs indicate the following meanings. (The following are examples of signs.)

This sign in the figure indicates prohibition.

Indicates the instructions that must be followed.

Please keep this manual after reading.

PRECAUTIONS DURING INSTALLATION · 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. WARNING 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. • 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 the unit near a location where there is flammable gas. The outdoor unit may catch fire if flammable gas leaks around it. Piping shall be suitable supported with a maximum spacing of 1m between the supports. CAUTION • Please ensure smooth flow of water when installing the drain hose. Make sure that a single phase 220V or 230V power source is used. The use of other power sources may cause electrical components to overheat and PROHIBITION lead to fire.

PRECAUTIONS DURING SHIFTING OR MAINTENANCE



Should abnormal situation arise (like burning smell), please stop operating the unit and remove plug from the socket. 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
- 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

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





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.





- 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

 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 directly under the air flow as it is bad for the plants.





 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 touch the air outlet, bottom surface and aluminum fin of the outdoor unit.
 You may get hurt.

• Do not touch the refrigerant pipe and connecting valve. Burns may result.

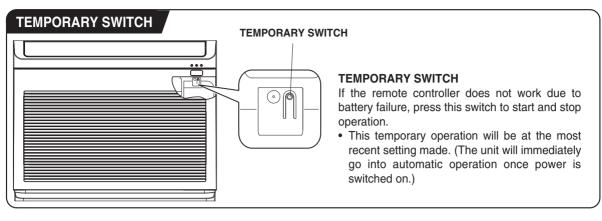


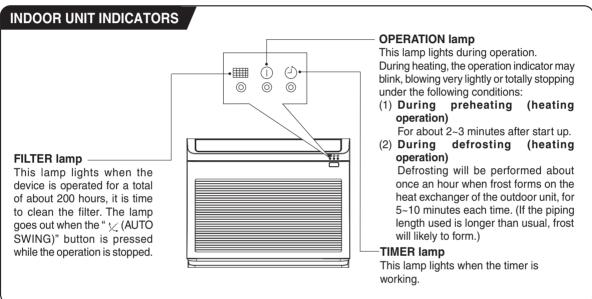
- This appliance is not intended for use by young children or infirm persons unless they have been adequately supervised by a responsible person to ensure that they can use this appliance safely.
- Young children should be supervised to ensure that they do not play with the appliance.

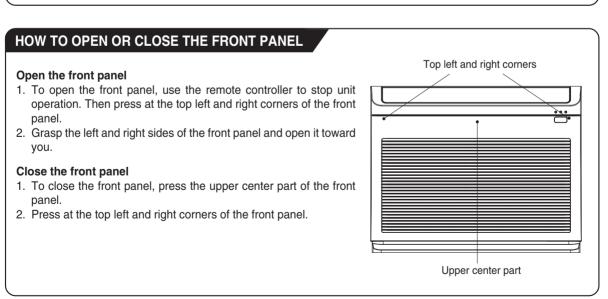
INDOOR UNIT **OUTDOOR UNIT FOR** SINGLE SPLIT MODEL Horizontal air deflector Indoor unit indicators Air filter Signal receiver Front panel **RAC-25FPA RAC-35FPA** Remote controller **RAC-50FPA MODEL NAME AND DIMENSIONS**

MODEL	WIDTH	HEIGHT	DEPTH
RAF-25RPA RAF-35RPA RAF-50RPA (INDOOR UNIT)	760mm	600mm	235mm
RAC-25FPA	750mm	548mm	288mm
RAC-35FPA	750mm	548mm	288mm
RAC-50FPA	792mm	600mm	299mm

^{*} OUTDOOR UNIT for single split model.



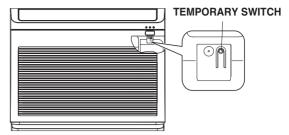




TEMPORARY SWITCH

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 on.)



CIRCUIT BREAKER

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

HOW TO USE THE AIR CONDITIONER EFFECTIVELY

- 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.



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.

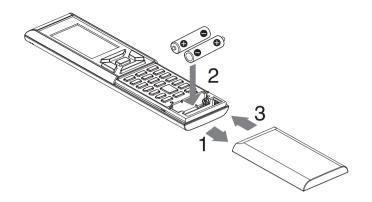


- 5. Do not block the air intake and air outlet.
 - Do not block the air outlets and intakes of the indoor and outdoor units with curtains
 or other obstacles which could degrade air conditioner performance and cause unit
 failure.

PREPARATION BEFORE OPERATION

■ To install the batteries

- 1. Slide the cover to take it off.
- Install two dry batteries AAA.LR03 (alkaline). The direction of the batteries should match the marks in the case.
- 3. Replace the cover at its original position.



■ To fix the remote controller holder to the wall

- 1. Choose a place from where the signals can reach the unit.
- 2. Fix the remote controller holder to a wall, a pillar or similar location with the provided screws.
- 3. Place the remote controller in the remote controller holder.

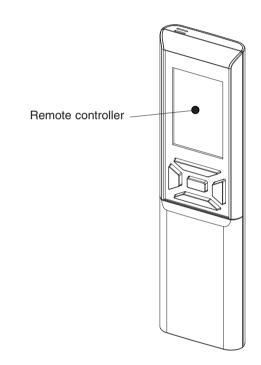


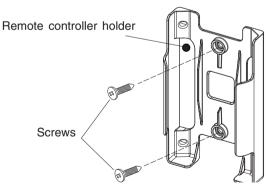
Notes on batteries

- When replacing the batteries, use batteries of the same type, and replace both old batteries together.
- When the system is not used for a long time, take the batteries out.
- The batteries will last for approximately 1 year. However, if the remote controller display begins to fade and degradation of reception performance occurs within a year, replace both batteries with new size AAA.LR03 (alkaline).
- The attached batteries are provided for the initial use of the system.
 - The usable period of the batteries may be short depending on the manufactured date of the air conditioner.

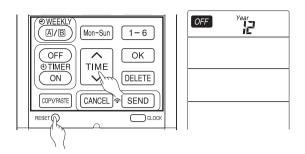
Notes on the remote controller

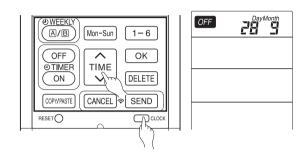
- Never expose the remote controller to direct sunlight.
- Dust on the signal transmitter or receiver will reduce the sensitivity. Wipe off dust with soft cloth.
- Signal communication may be disabled if an electronicstarter-type uorescent lamp (such as inverter-type lamps) is in the room. Consult the shop if that is the case.
- If the remote controller signals happen to operate another appliance, move that appliance to somewhere else, or consult the service shop.
- When the remote controller is not in use, please close the slide cover to prevent failure.

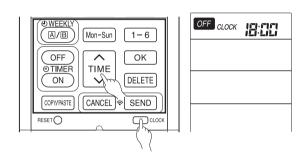


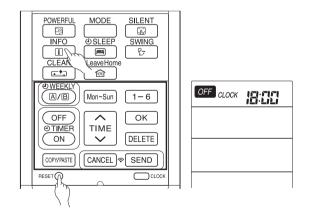


PREPARATION BEFORE OPERATION









■ To set calendar and clock

- 1. Press RESET (RESET) button when first time setting. "Year" blinks.
- 2. Press $\widehat{\mbox{\tiny TIME}}$ (TIME) button to set the current year.
- 3. Press CLOCK (CLOCK) button. Next, "Day" and "Month" blink.
- 4. Press (TIME) button to set the current day and month.
- 5. Press CLOCK (CLOCK) button. Next, "CLOCK" blinks.
- 6. Press (TIME) button to set the clock to the current time.
- 7. Press CLOCK (CLOCK) button.

Calendar and clock are set.

To modify the calendar and clock, press CLOCK (CLOCK) button.

Then follow steps 1 to 7.

Calendar and clock shall be set again after changing batteries.

After changing the batteries,

- 1. Press RESET (RESET) button.
- 2. Direct remote control towards indoor unit and press INFO (INFO) button.
- 3. The calendar and clock from indoor unit will be transmitted.
- Calendar and clock will not be transmitted from indoor unit when the following occurs:
 - When there is a power failure.
 - When breaker is OFF by user (unit is not in STANDBY MODE).

NOTE

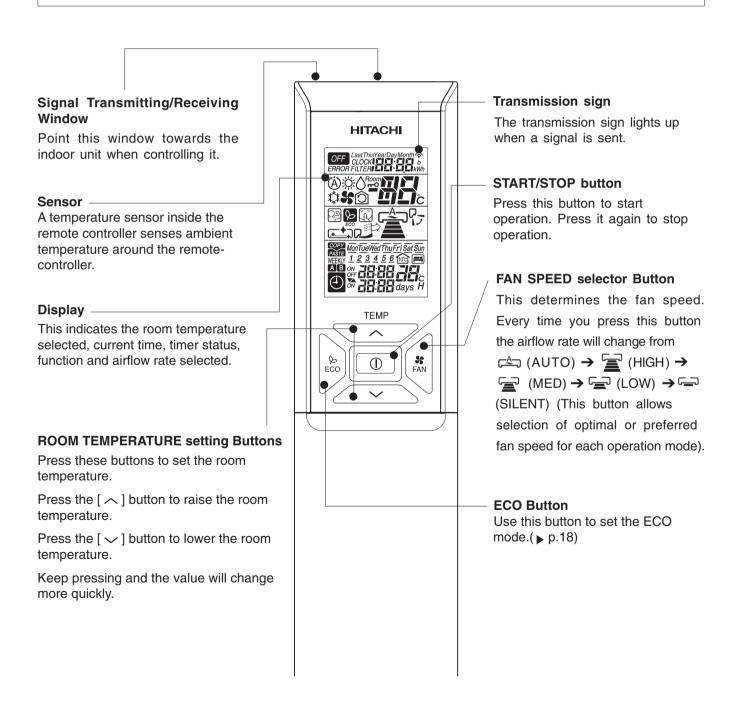
Note on setting the calendar and clock.

- If the calendar and clock are not set, the ON-timer, OFF-timer and Weekly Timer cannot be set.
- If the calendar and clock are not set correctly, the ON-timer, OFF-timer and Weekly Timer will not operate correctly.
- When the ON-timer, OFF-timer and Weekly Timer are set, the calendar and clock cannot be changed. If need to change the calendar and clock, ON-timer, OFF-timer and Weekly Timer need to be cancelled.

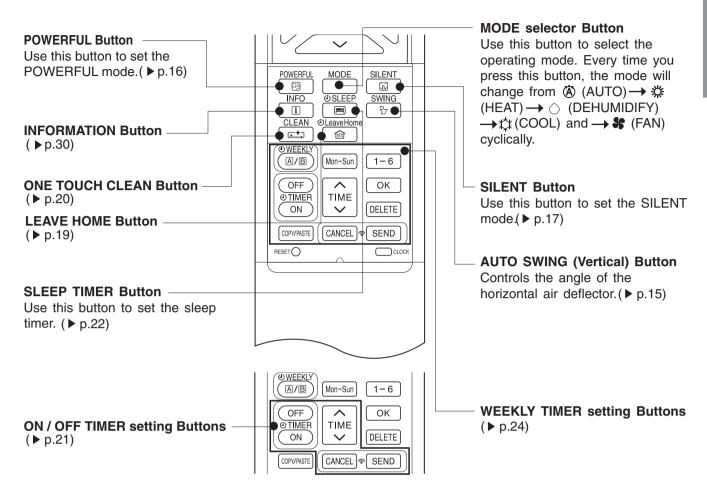
NAMES AND FUNCTIONS OF REMOTE CONTROLLER

REMOTE CONTROLLER

- This controls the operation of the indoor unit. The range of control is about 7 meters. If indoor lighting is controlled electronically, the range of controller 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.
- When remote controller is not in use for about 3 minutes during OFF condition, indicated by OFF on the display, the LCD will turn off.
- During clock setting, the LCD will turn off about 10 minutes later if the remote controller is not in use.
- When pressing any button, the LCD will turn on.
- The LCD will not turn off during TIMER setting.



NAMES AND FUNCTIONS OF REMOTE CONTROLLER



(A) —	- MODE SELECTOR - AUTO - HEAT - DEHUMIDIFY - COOL - FAN
	FAN SPEED AUTO SILENT LOW MED HI
0	START / STOP
& ECO	ECO

\$ FAN	FAN	
23	POWERFUL	
W.	SILENT	
i	INFO	
	SLEEP TIMER	
₹7	AUTO SWING (VERTICAL)	
10°C	LEAVE HOME	
+	CLEAN	
Mon-Sun	DAY	
1-6	PROGRAM NO.	

OFF ©TIMER ON	ON / OFF TIMER
TIME	TIME
OK	ОК
DELETE	DELETE
COPY/PASTE	COPY / PASTE
CANCEL	CANCEL
SEND	SEND
CLOCK	CLOCK

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 MODE selector button during operation, the device may stop for about 3 minutes for protection.

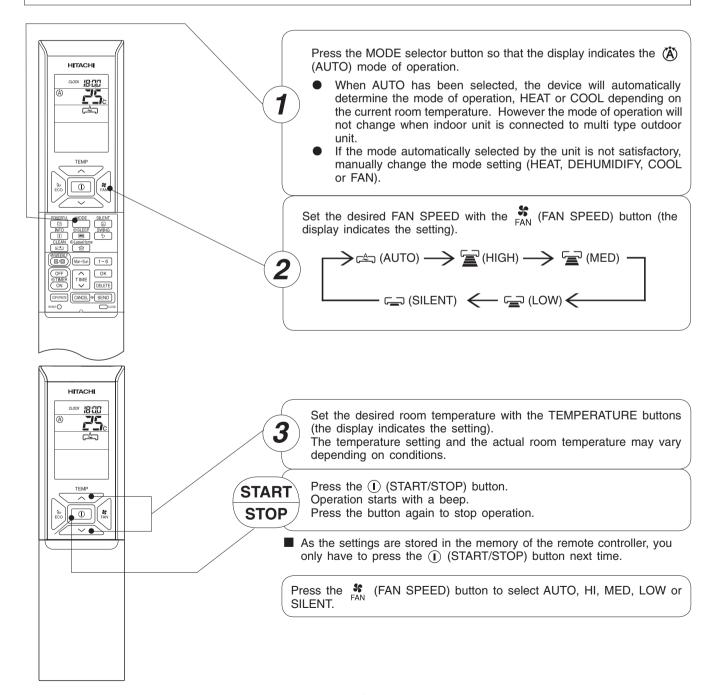
VARIOUS FUNCTIONS

■ 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 air flow direction.
 - Note: 1. If you do not require Auto Restart Control, please consult your sales agent.
 - 2. Auto Restart Control is not available when Timer or Sleep Timer mode is set.

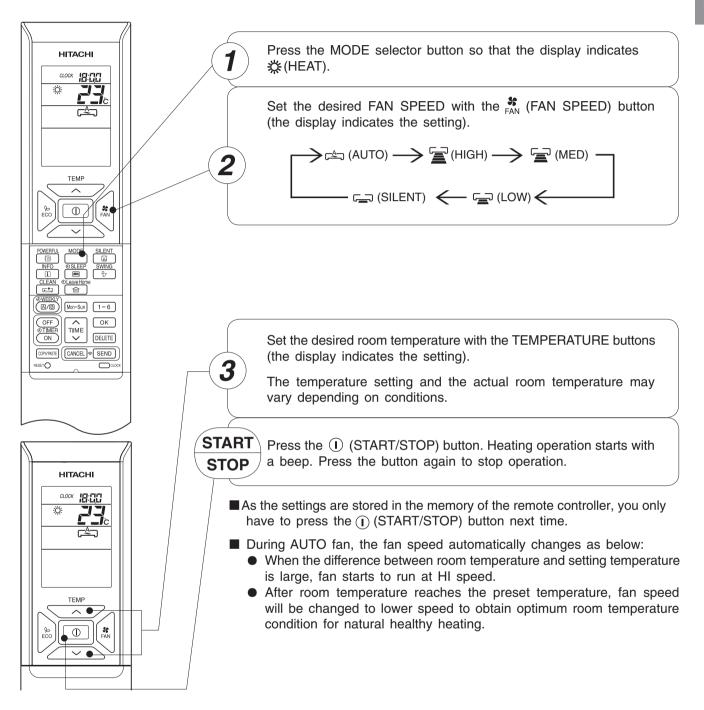
AUTOMATIC OPERATION

The device will automatically determine the mode of operation, HEAT or COOL 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 is 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 maintain reliability of the device, please use this device when outdoor temperature is above -15°C.



Defrosting

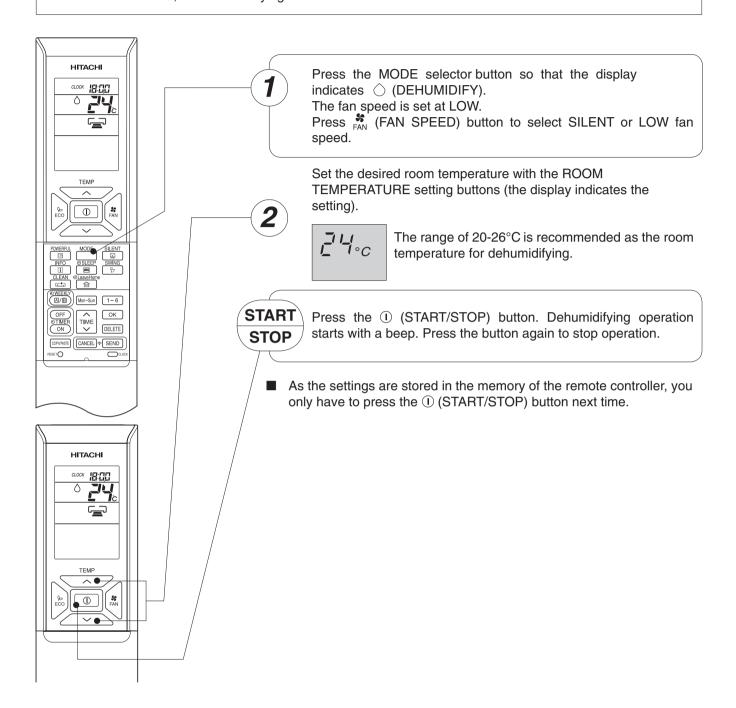
Defrosting will be performed about once an hour when frost forms on the heat exchange of the outdoor unit, for 5~10 minutes each time.

During defrosting operation, the operation lamp blinks in a cycle of 3 seconds on and 0.5 second off. The maximum time for defrosting is 20 minutes.

However, if the indoor unit 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 is 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

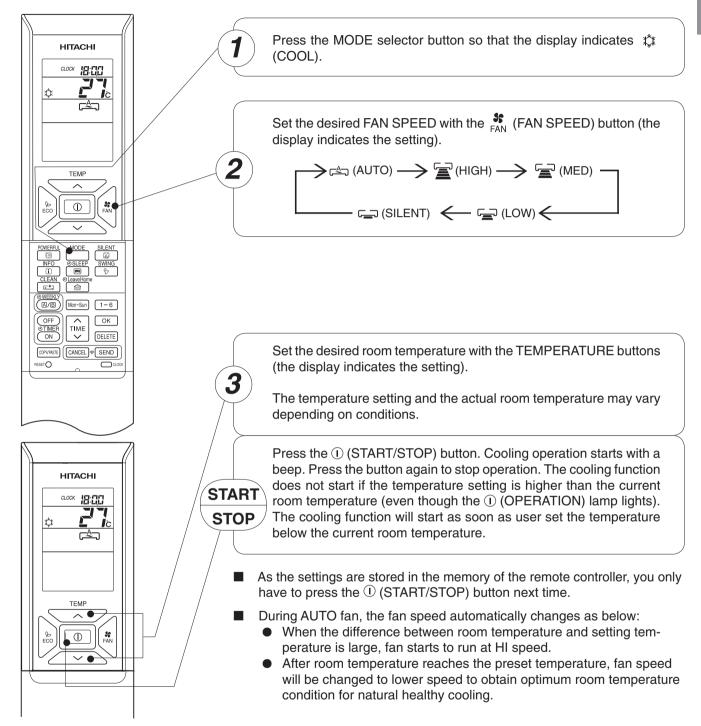
setting.

- 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
- The preset room temperature may not be reached depending on the number of people present in the room or other room conditions.

COOLING OPERATION

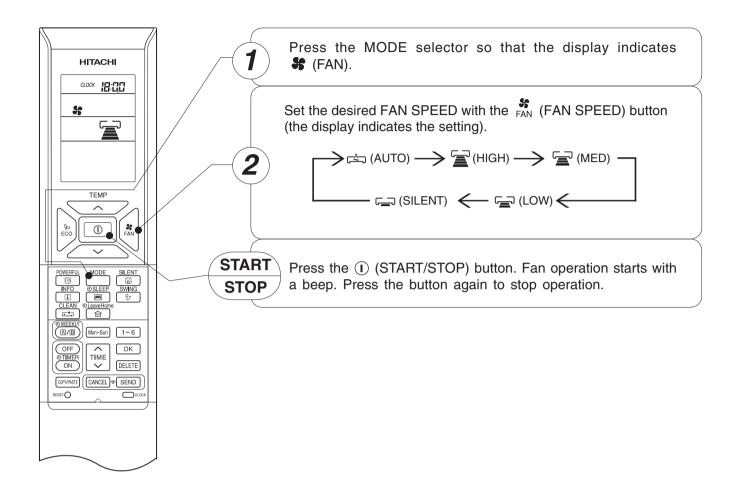
Use the device for cooling when the outdoor temperature is -10~ 43°C.

If indoors humidity is very high (80%), some dew may form on the air outlet grille of the indoor unit.



FAN OPERATION

User can use the device simply as an air circulator.



R AUTO SWING OPERATION

■ To start Vertical Auto Swing

- Press (7,7) (AUTO SWING (VERTICAL)) button. The deflector(s) will start to swing up and down.
 - $\mathbb{Q}_{\overline{\mathcal{C}}}$ is displayed on the LCD.

■ To cancel Vertical Auto Swing

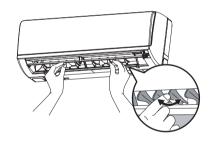
- Press (AUTO SWING (VERTICAL)) button again. The deflector(s) will stop in the current position.

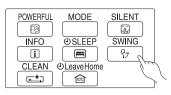
NOTE

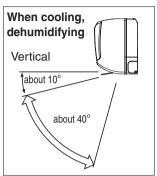
 During cooling and dehumidifying operation, do not keep the deflectors swinging or in the lower position (in the case of vertical auto swing) for a long time. It may cause dew condensation on the deflectors.

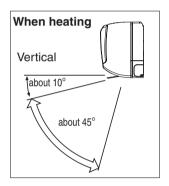
Adjustment of the conditioned air to the left and right.

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









Note

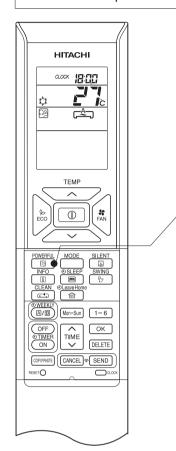
 Avoid to use the room air conditioner for cooling operation when the outside temperature is below -10°C (14°F).

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

		Cooling		Heating	
		Minimum	Maximum	Minimum	Maximum
Indoor	Dry bulb °C	21	32	20	27
	Wet bulb °C	15	23	12	19
Outdoor	Dry bulb °C	21	43	2	21
	Wet bulb °C	15	26	1	15

POWERFUL OPERATION

- By pressing POWERFUL) button during AUTO, HEATING, DEHUMIDIFYING, COOLING or FAN operation, the air conditioner performs an the maximuum power.
- During POWERFUL operation, cooler or warmer air will be blown out from indoor unit for COOLING of HEATING operation respectively.



■ To start POWERFUL operation

• Press POWERFUL (POWERFUL) button during operation.

" Ω " is displayed on the LCD.

POWERFUL operation ends in 20 minutes. Then the system automatically operates with the previous settings used before POWERFUL operation.

■ To cancel POWERFUL operation

- Press () (START/ STOP) button.Or
- Press POWERFUL (POWERFUL) button again.

POWERFUL operation stops.

" [2] " disappears from the LCD.

NOTE

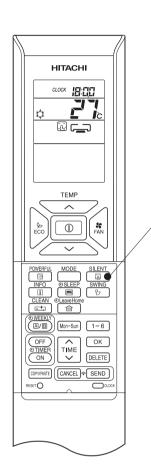
- When SLEEP mode, ECO mode, SILENT mode or LEAVE HOME mode is selected, POWERFUL operation is cancelled.
- During POWERFUL operation, capacity of the air conditioner will not increase

1

- if the air conditioner is already running at maximum capacity.
- just before defrost operation (when the air conditioner is running in HEATING operation).
- After auto restart, POWERFUL operation is cancelled and previous operation shall start.

SILENT OPERATION

By pressing (SILENT) button during AUTO, HEATING, DEHUMIDIFYING, COOLING or FAN operation, the fan speed will change to ultra slow.



■ To start SILENT operation

Press (SILENT) button during operation.

" $\begin{picture}(20,0)\put(0,0){\line(0,0){100}}\end{picture}$ " is displayed on the LCD. Fan speed will be ultra slow.

■ To cancel SILENT operation

- Press (I) (START/STOP) button. Or
- Press SILENT (SILENT) button again or FAN (FAN SPEED) button.

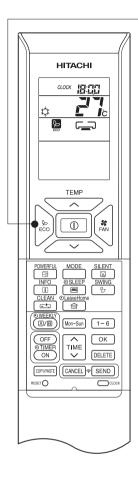
Fan speed will return to previous fan speed before SILENT operation starts.

SILENT operation stops.

" wisappears from the LCD.

- When POWERFUL operation is selected, SILENT operation is cancelled. Fan speed will return to previous fan speed before SILENT operation.
- After auto restart, SILENT operation is cancelled. Fan speed will return to previous fan speed before SILENT operation.
- During any operation with fan speed (SILENT), if press (SILENT) button, fan speed will not change.

ECO operation is an energy saving function by changing set temperature automatically and by limiting the maximum power consumption value.





 By pressing the ECO (ECO) button during AUTO, HEATING, DEHUMIDIFYING or COOLING operation, the air conditioner performs the "ECO" operation.

■ To start ECO operation

- Press $\stackrel{\diamondsuit}{\text{ECO}}$ (ECO) button during operation.
 - " is displayed on the LCD.

Energy saving operation will start by changing the set temperature higher or lower automatically and reducing operation power consumption. This function may vary based on the connected outdoor unit.

■ To cancel ECO operation

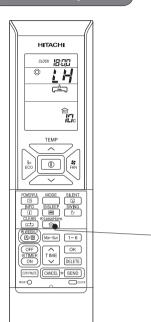
- Press (I) (START/STOP) button.Or
- Press $\stackrel{\diamondsuit}{\text{ECO}}$ (ECO) button again.
 - " disappears from the LCD.

- ECO function will not be effective when power consumption is low.
- By pressing (POWERFUL) button, ECO operation is cancelled.
- After auto restart, ECO operation is cancelled and previous operation mode shall start.
- For multi model connections, energy saving operation shall only start by changing set temperature higher or lower automatically. However, effectiveness of ECO depends on operation conditions.

LEAVE HOME(LH) OPERATION

Prevent the room temperature from falling too much by setting temperature 10°C automatically when no one is at home. This operation is able to operate by "Continuous operation" or "Day timer operation". Please use "Day timer operation" to set the number of days up to 99 days.

Continuous operation



Day timer operation



■ To start LEAVE HOME operation

Option 1. Continuous operation.

● Press ^{⊕LeaveHome} (LEAVE HOME) button during stop or operation.

Room temperature is set at 10°C and heating operation starts.

" ", " " ", " ", " ", " is displayed on the LCD.

Option 2. Day timer operation.

Room temperature is set at 10°C and heating operation starts.

Set number of operation days (1 to 99 days), if needed.

Press TIME (TIME) button to select number of days.

Number of days blink.

- * Press " \((UP)" to set number of days from 1 day, 2 days, 3 days \(..... \) 98 days, 99 days, 1 day and so on.
- * Press " \sim (DOWN)" to set number of days from 99 days, 98 days, 97 days 3 days, 2 days, 1 day, 99 days and so on.
- * Number of day is counted when clock indicates 0:00.
- Press SEND (SEND) button to confirm number of operation days. Display for number of operation days will stop blinking.
- Press <u>CANCEL</u> (CANCEL) button to reset number of operation days or to have continuous operation.

■ To cancel LEAVE HOME operation

- Press (I) (START/STOP) button.Or
- Press ⊕LeaveHome (LEAVE HOME) button again.

Return to previous operation mode.Or

• Change to other operation mode by pressing MODE (MODE) button.

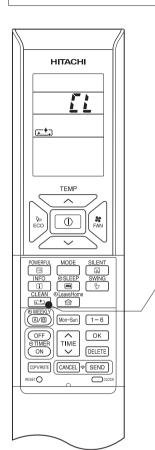
- After reaching the set number of operation days for Leave Home or by pressing the (Leave Home) button again, othe unit will operate in previous mode.
- During Leave Home operation, fan speed and horizontal air deflector position cannot be changed.
- By pressing (Leave Home) button, implementation of Weekly Timer or One Timer only Timer is cancelled.
- In case of power supply shut down, after autorestart, all setting for number of days operation will be reset and unit shall be in continuous operation.
- For multi connections, when each room is running in different operation mode such as FAN only, COOLING, DEHUMIDIFYING or AUTO mode, Leave Home operation cannot operate even though it is possible to set Leave Home operation. In order to start Leave Home operation, all rooms must stop its operation. Then, press (LEAVE HOME) button to operate Leave Home operation.
- For multi connections, when all rooms are running HEATING operation, it is possible to operate Leave Home operation by pressing the (LEAVE HOME) button.
- For multi connections, if two or more rooms are set to operate Leave Home operation, the capability to reach the set temperature at 10°C may not possible. In addition, this also depends on outdoor temperature.
- POWERFUL, SILENT and ECO operations are not applicable during Leave Home.



立 CLEAN (ONE TOUCH CLEAN) OPERATION

1

Drying indoor heat exchanger after cooling operation to prevent mildew.



■ To start CLEAN operation

Press (CLEAN) button when unit is OFF.
 Total time taken for One Touch Clean operation is 60 minutes.

During this operation, HEATING or FAN operation shall operate.

During one touch clean, operation lamp is blinking.

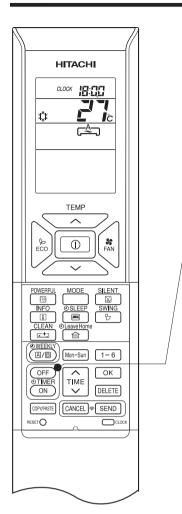
"LL", " is displayed on the LCD.

■ To cancel CLEAN operation

- Press (I) (START/STOP) button.Or
- Press CLEAN button again.

- When CLEAN operation finish, unit will switch OFF automatically.
- If Weekly Timer or Once Timer is set, there is a need to cancel those timer before operating CLEAN function.
- For multi connections, when pressing (CLEAN) button, operation is limited to FAN operation.
- For multi connections, when one room operates CLEAN operation first, other rooms can operate COOLING, DEHUMIDIFYING or FAN operation. However, when other rooms need to operate HEATING operation, air conditioner will be in STANDBY mode. After CLEAN operation finish, HEATING operation will start.

ONCE TIMER (ON/OFF TIMER) OPERATION



OFF TIMER

The device can be set to turn off at a preset time.

- 1. Press OFF (OFF-TIMER) button. OFF and SIME blink on the display.
- 2. Set the "turn-off time" with TIME (TIME) button.
- 3. After setting, direct the remote controller towards the indoor and press SEND (SEND) button.
 - and "set time" lights up instead of blinking.

A beep sound emitted from indoor unit and the (TIMER) lamp on the indoor unit lights up.

ON TIMER

The device will turn on at a designated time.

- 1. Press ON (ON-TIMER) button.
- 2. Set the "turn-on time" with TIME (TIME) button.
- 3. After setting, direct the remote controller towards the indoor and press SEND (SEND) button.
 - (a) and "set time" light up instead of blinking.

A beep sound emitted from indoor unit and the (TIMER) lamp on the indoor unit lights up.

ON/OFF TIMER

- The device will turn on (off) and off (on) at the designated time.
- The switching occurs first at the preset time that comes earlier.
- The arrow mark appears on the display to indicate the sequence of switching operations.
- 1. Press OFF (OFF-TIMER) button so that of and of the display.
- 2. Set the "turn-off" time with (TIME) button. After setting, direct the remote controller towards the indoor and press (SEND) (SEND) button.
- 3. Press ON (ON-TIMER) button so that of and set "turn-off" time light up. The on and one of the button so that
- 4. Set the "turn-on" time with TIME (TIME) button.
- 5. After setting, direct the remote controller towards the indoor and press (SEND) (SEND) button
 - (a) and set "turn-on" time light up instead of blinking.

A beep sound emitted from indoor unit and the (TIMER) lamp on the indoor unit lights up.

The timer may be used in three ways: OFF-timer, ON-timer and ON/OFF (OFF/ON)-timer. Set the current time first because it serves as a reference.

■ To cancel Reservation

- Point the signal window of the remote controller towards the indoor unit and press [CANCEL] (CANCEL) button.
 - and "ON or OFF set time" goes out with a beep and the (TIMER) lamp on the indoor unit turns off.

- User can set only one of the OFF-timer, ON-timer or ON/OFF-timer.
- If WEEKLY TIMER already set, by setting the ONCE TIMER, ONCE TIMER operation is prioritized. When ONCE TIMER operation is complete, WEEKLY TIMER operation will be activated.

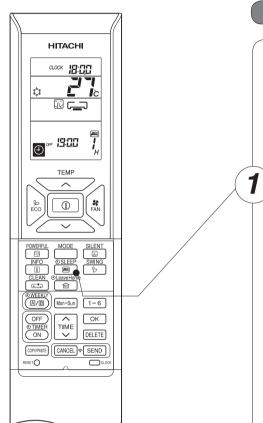
ECO SLEEP TIMER OPERATION

The timer can be set up to a duration of 7 hours.

By pressing $\stackrel{\text{OSLEEP}}{\blacksquare}$ (SLEEP) button during AUTO, HEATING, DEHUMIDIFYING, COOLING or FAN operation,

the unit shifts the room temperature and reduces the fan speed. It results in energy saving.

Set the current time first before operating the ECO SLEEP TIMER operation.



■ To start ECO SLEEP TIMER operation

Press SLEEP (SLEEP) button during operation.

- " , " , " , " OFF", off time, " and number of hour are displayed on the remote controller display.
- During ECO SLEEP TIMER operation, fan speed will be ultra slow.
- A beep sound emitted from indoor unit and the (TIMER) lamp on the indoor unit lights up.

Pressing (SLEEP) button repeatedly, the number of hours will change as below:



- During ECO SLEEP TIMER operation, air conditioner will continue to operate for the designated number of hours and then turn off.
- When the ECO SLEEP TIMER has been set, the display on the remote controller indicates the turn off time.





Example: If ECO SLEEP TIMER is set for 1 hour at 18:00, the switch off time will be at 19:00.

■ To cancel ECO SLEEP TIMER operation

Press ① (START/STOP) button.

• Room air conditioner will switch off.

Press (SLEEP) button again until " ," "," "," "," "," "," off time, " and number of hour disappear from the remote controller display.

Press CANCEL) button.

- A beep sound emitted from indoor unit and the (TIMER) lamp on the indoor unit turns off.
- SLEEP TIMER operation is cancelled.



ECO SLEEP TIMER OPERATION

■ To set SLEEP TIMER and ON TIMER

The air conditioner will be turned off by ECO SLEEP TIMER and turned on by ON TIMER.

- 1. Set the ON TIMER.
- 2. Press SLEEP (SLEEP) button and set ECO SLEEP TIMER.







Example:

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

■ To cancel ECO SLEEP TIMER and ON TIMER operation

Direct the remote controller towards the indoor unit and press CANCEL (CANCEL) button.

- " , " , " OFF", off time, " ", number of hour, "ON" and ON TIMER set time disappear from the remote controller display.
- A beep sound emitted from indoor unit and the (TIMER) lamp on the indoor unit turns off.
- ECO SLEEP TIMER and ON TIMER reservations are cancelled.

30 minutes after setting ECO SLEEP TIMER, outdoor fan speed will be reduced to lower the noise level and to have comfort operation.

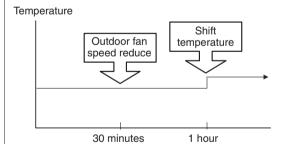
1 hour after setting ECO SLEEP TIMER, set temperature will be slightly shifted. Amount of temperature shifted depends on type of air conditioner.

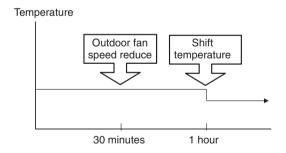
These automatic operation changes contribute to energy saving without losing comfort.

The level of energy consumption depends on outside temperature, room temperature, set temperature or air conditioner type.

Cooling operation [diagram representation for illustrative purpose only]

Heating operation [diagram representation for illustrative purpose only]



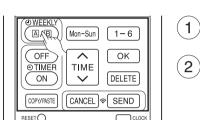


NOTE

• If ECO SLEEP TIMER is set when OFF TIMER or ON/OFF TIMER has been set earlier, the ECO SLEEP TIMER becomes effective instead of the OFF TIMER or ON/OFF TIMER.

- It is possible to select Mode A or Mode B.For each mode, up to 6 programs can be set per day. In total, a
 maximum of 42 programs can be set for a week for each mode.
- If calendar and clock are not set, the reservation setting for WEEKLY TIMER cannot be set.
- If calendar and clock are not set correctly, WEEKLY TIMER will not operate correctly.
- Reservation for calendar and clock shall be set first before operating WEEKLY TIMER.
- Step 1: Set the reservation schedule to the remote controller. Send the registered reservation to indoor unit and then operate.
- Step 2: Select Mode A or Mode B and activate or deactivate WEEKLY TIMER.
- Step 3: Copy and cancel the reservation schedule.

Step 1: Set reservation schedule to the remote controller. Send the registered reservation to indoor unit and then operate.



■ How to set a WEEKLY TIMER.

1. Select Mode A or Mode B.

Press (WEEKLY) button. WEEKLY lights up. (A and blink on the display. (Mode A is selected).

Press (A/B) (WEEKLY) button again, **B** and **(b)** blink on the display. (Mode B is selected).

- If no reservation has been made, ON/OFF, --:--, To appear.
- If reservation has been made, ON/OFF, --:--, will not appear.
- 2. Set a program.

Press (WEEKLY) button for about 3 seconds. The selection mode can be changed.

(4), day: Mon, program no. : 1, ON/OFF, setting time and setting temperature blink on the display.

3. Select the desired day of the wekk.

Press Mon-Sun (DAY) button.

The day changes from Mon \rightarrow Tue \rightarrow Wed \rightarrow Thu \rightarrow Fri \rightarrow Sat \rightarrow Sun \rightarrow Mon, Tue, Wed, Thu, Fri, Sat, Sun [Full days] \rightarrow Mon, Tue, Wed, Thu, Fri [weekday] \rightarrow Sat, Sun [weekend] \rightarrow Mon \rightarrow Tue

Select [Full days] for daily reservation.

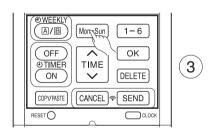
Select [weekday] for Monday to Friday reservation.

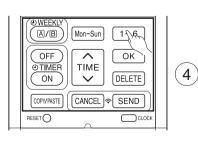
Select [weekend] for Saturday and Sunday reservation.

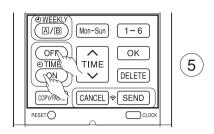
- After reservation has been set, it is easy to check and edit at the same time.
- 4. Press 1-6 button to select a program number.

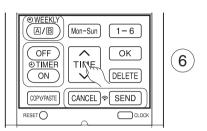
The number changes from $1 \rightarrow 2 \rightarrow 3 \rightarrow 4 \rightarrow 5 \rightarrow 6 \rightarrow 1 \rightarrow 2 \dots$

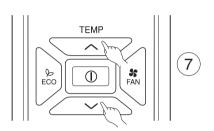
 If program number has been set, follow above in order to make changes.

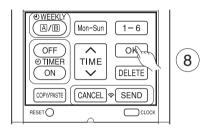


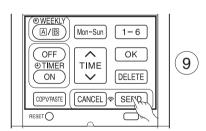












- 5. Press (ON-OFF TIMER) button to select ON TIMER or OFF TIMER reservation.
- 6. Press (TIME) button to set time reservation.
- 7. Press (TEMP ∧ or ∨) button to set temperature reservation.
- 8. Press OK (OK) button. The reservations are set. Day, program number, ON reservation, setting temperature will light up. Will be continuously blinks. If reservation is not complete, settings will not be stored in memory.

To continue with the reservation, press $\underbrace{\text{Mon-Sun}}_{1-6}$ $\underbrace{\text{TIME}}_{ON}$ buttons. Follow step 3 to 8 for reservation.

 After all the reservations have been set, press SEND (SEND) button while directing the remote controller towards the indoor unit for about 3 seconds Timer lamp on the indoor unit will blink rapidly.

After beep sound emitted from indoor unit, TIMER lamp will light up.

Please ensure that the TIMER lamp lights up.

This indicates that the reservation has been stored in the indoor unit and Timer function has been completed.

The reservation contents will appear on the remote controller display.

- If TIMER lamp on the indoor unit does not light up, press (SEND) button while directing the remote controller towards the indoor unit for about 3 seconds.
- **CAUTION!** Do not press CANCEL (CANCEL) button during reservation setting because this will result in all reservation contents to be lost.
- The reservation contents will not stored in the indoor unit until SEND (SEND) button has been pressed.

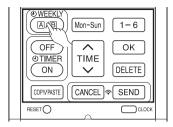
NOTE

• Up to 6 programs can be set per day. Setting ON TIMER or OFF TIMER for each program number can be at random. When pressing SEND (SEND) button, the set ON TIMER or OFF TIMER for each program number will automatically arranged so that program number 1 shall have the earliest time and program number 6 shall have the latest time.

If the setting time is the same, Priority will be given to the latest reservation contents.

• CAUTION! If the remote controller is left idle and SEND (SEND) button is not pressed within 3 minutes after reservations have been made, all current reservations will be lost.

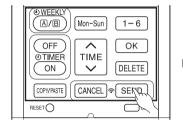
Step 2: Select Mode A or Mode B and activate or deactivate WEEKLY TIMER.





(2)

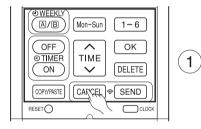
- How to select Mode A or Mode B of WEEKLY TIMER setting.
- 1. Press (WEEKLY) button. A and blink on the display. (Normally Mode A will blink first).
- 2. Press ((WEEKLY) button again. **B** and (blink on the display.
- 3. Select Mode A or Mode B. Press SEND (SEND) button while directing the remote controller towards the indoor unit for about 3 seconds. Timer lamp on the indoor unit will blink rapidly.





After beep sound emitted from indoor unit, TIMER lamp will light up. Please ensure that the TIMER lamp lights up.

This indicates that Mode A or Mode B selection and active WEEKLY TIMER have been confirmed.



- Setting non-active WEEKLY TIMER.
- Direct the remote controller towards the indoor unit and press CANCEL (CANCEL) button.
 Beep sound will be emitted from indoor unit and TIMER lamp will be OFF.
 Reservation indication on remote display will also disappear.
 This indicates that non-active WEEKLY TIMER has been confirmed.
 - To activate back the setting of WEEKLY TIMER, repeat the steps for "How to select Mode A or Mode B of WEEKLY TIMER setting".

- When setting ONCE TIMER, operation of WEEKLY TIMER is interrupted. After ONCE TIMER operation is complete, WEEKLY TIMER operation will be activated.
- When ONCE TIMER is cancelled, operation of WEEKLY TIMER is also cancelled. Need to set WEEKLY TIMER operation for activation.
- After auto restart, WEEKLY TIMER operation is cancelled. Need to set WEEKLY TIMER operation for activation.

Step 3: Copy and cancel the reservation schedule.







■ How to copy and paste.

Editing the reservation schedule is easy by copying data from one day to another day.

- 1. Press ((A/B) (WEEKLY) button to select Mode A or Mode B.
- 2. Press (a/B) (WEEKLY) button for about 3 seconds to start editing the reservation schedule.
- 3. Press [Mon-Sun] (DAY) button to select a day of the week to copy.
- 4. Press CANCEL (COPY/PASTE) button. Then "PASTE" blinks on the display.

 * Press CANCEL (CANCEL) button to cancel the COPY mode. Normal setting mode is activated.
- 5. Press Mon-Sun (DAY) button to select a day of the week to paste.
- 6. Press COPY/PASTE (COPY/PASTE) button one more time to paste. only blinks on the display.
- 7. To continue copying to other days, press $\boxed{\text{Mon-Sun}}$ or $\boxed{\text{1-6}}$ or $\boxed{\text{or}}$ or $\boxed{\text{OFF}}$.

Then start from step 3.

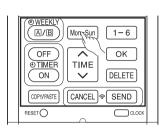
8. After copy and paste completed, press SEND (SEND) button while directing the remote controller towards the indoor unit for about 3 seconds. Timer lamp on the indoor unit will blink rapidly.

After beep sound emitted from indoor unit, TIMER lamp will light up.

Please ensure that the TIMER lamp lights up.

If TIMER lamp does not light up, Press SEND (SEND) button again.

Reservation data will not change if SEND (SEND) button is not pressed.



A/B

OFF

OTIMER

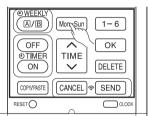
ON



CLOC

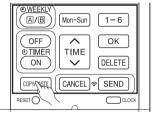


(3)

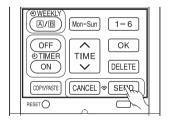


COPY/NSTE CANCEL SEND







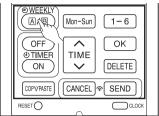




NOTE

If there is no reservation data, copying data from one day to another day cannot be done.

Step 3: Copy and cancel the reservation schedule.





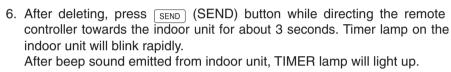
1 2

(3)

4

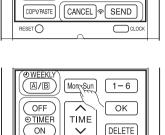
[Delete one program number reservation]

- 1. Press $\left(\begin{array}{c} \text{@WEEKLY} \\ \text{(A/B)} \end{array}\right)$ (WEEKLY) button to select Mode A or Mode B.
- 2. Press ((A/B)) (WEEKLY) button for 3 seconds to start editing the reservation schedule.
- 3. Press Mon-Sun (DAY) button to select a day of the week to edit.
- 4. Press 1-6 to select program number. Selected program number will blink.
- 5. Press DELETE (DELETE) button. Reservation of selected program number is deleted.

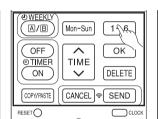


Please ensure that the TIMER lamp lights up.

Reservation will not change if SEND (SEND) button is not pressed.



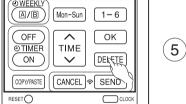
CANCEL P SEND

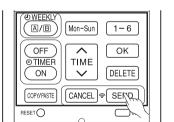


RESET



CLOC





(6)

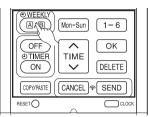
Step 3: Copy and cancel the reservation schedule.

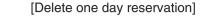
(1)

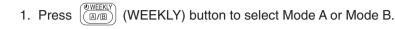
2)

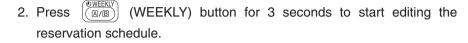
(3)

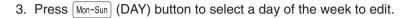
4

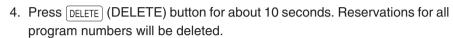












- If press for a short time, reservation for one program number will be deleted.
- 5. After deleting, press SEND (SEND) button while directing the remote controller towards the indoor unit for about 3 seconds. Timer lamp on the indoor unit will blink rapidly.

 After beep sound emitted from indoor unit, TIMER lamp will light up.

Please ensure that the TIMER lamp lights up.

• Reservation will not change if SEND (SEND) button is not pressed.



COPY/PASTE RESET

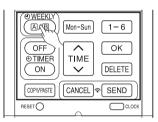
RESET

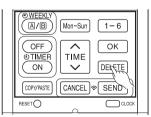
CLOC

CLOC



5





NOTE

[Delete Mode A or Mode B]

- 1. Press $\binom{\text{\tiny \tiny PWEEKLY}}{\text{\tiny \tiny \tiny A/B}}$ (WEEKLY) button to select Mode A or Mode B.
- 2. Direct the remote controller towards the indoor unit and press DELETE (DELETE) button for about 10 seconds while Mode A or Mode B display blinks.

After beep sound emitted from indoor unit, reservations for Mode A or Mode B will disappear.

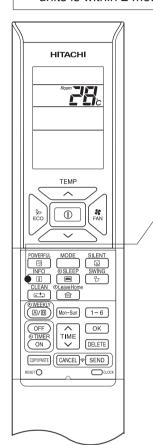


(1)

• If all reservations in the remote controller were deleted and pressed SEND (SEND) button, no signal will be transmitted to indoor unit. TIMER lamp will remain off and no changes will be done to the reservations stored in the indoor unit.

INFO FUNCTION

- By pressing (INFO) button, temperature around remote controller and monthly power consumption will be displayed on the remote controller.
- After changing the batteries, direct the remote controller towards the indoor unit and press in (INFO button.
 - Current calendar and clock will be transmitted from indoor unit.
- In order to receive information from indoor unit, the distance between remote controller and receiver of indoor units is within 2 meters.



■ To check temperature around remote controller

Press $\stackrel{\text{INFO}}{\ \ \ \ }$ (INFO) button.

Temperature will be displayed for 10 seconds.

■ To check monthly power consumption

Direct the remote controller towards the receiver of indoor unit (within 2 meters in front of indoor unit) and press (INFO) button. Wait for 2 seconds for signal transmission.

While temperature around remote controller is displayed, press $\bigcap_{|I|}^{INFO}$ (INFO) button repeatedly. The display will show as below:

this month power consumption amount for heating \rightarrow last month power consumption for heating \rightarrow this month power consumption amount for cooling \rightarrow last month power consumption amount for cooling \rightarrow temperature around remote control \rightarrow this month power consumption amount for heating cyclically.

- If indication is not given, bring remote controller closer to the receiver of the indoor unit.
- Indicated value shall be regarded as a guide only.

■ Current calendar and clock can be retrieved from indoor unit

Direct the remote controller towards the receiver of indoor unit (within 2 meters in front of indoor unit) and press (INFO) button. Wait for 2 seconds for signal transmission.

Once received the current calendar and clock, check whether they are correct or not by pressing CLOCK (CLOCK) button.

 If there is no power supply to indoor unit or calendar and clock have not been set, INFO function cannot be used for sending or receiving information.

NOTE

• In case failure occurs to the air conditioner, by pressing in the line occurs to the air conditioner, by pressing in the line occurs to the air conditioner, by pressing in the line occurs to the air conditioner, by pressing in the line occurs to the air conditioner, by pressing in the line occurs to the air conditioner, by pressing in the line occurs to the air conditioner, by pressing in the line occurs to the air conditioner, by pressing in the line occurs to the air conditioner, by pressing in the line occurs to the air conditioner, by pressing in the line occurs to the air conditioner, by pressing in the line occurs to the air conditioner, by pressing in the line occurs to the line

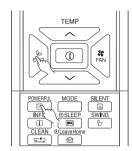
Direct the remote controller towards the receiver of indoor unit (within 2 meters in front of indoor unit) and press INFO (INFO) button. Wait for 2 seconds for signal transmission.

An error code will be displayed.

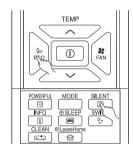
Call service center and inform the error code.

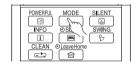
OPERATION MODE LOCK

The remote controller can be set to fix the HEATING mode (including FAN), COOLING mode (including FAN) and DEHUMIDIFYING mode (including FAN) operations.









■ Method to lock HEATING mode (including FAN) operation.

Press $\stackrel{\diamondsuit}{\text{ECO}}$ (ECO) and $\stackrel{\text{POWERFUL}}{\boxdot}$ (POWERFUL) buttons simultaneously for about 5 seconds when remote controller is OFF.

" ☼ ", " ♣ " and " 🗝 " will be displayed for about 10 seconds. Later, " ※ " and " 🗝 " will remain.

This indicates that HEATING mode operation is locked.

When preessing ^{MODE} (MODE) button, "☆" or " ♣ " will be displayed.

■ Method to unlock HEATING mode (including FAN) operation.

Press (ECO) and (POWERFUL) buttons simultaneously for about 5 seconds when the remote controller is OFF.

All operation mode symbols will appear on the display for about 10 seconds. After that, operation mode symbol before cancellation will be displayed.

This indicates that HEATING mode operation is unlocked.

■ Method to lock COOLING and DEHUMIDIFYING modes (including FAN) operations.

Press $\stackrel{\diamondsuit}{\text{ECO}}$ (ECO) and $\stackrel{\text{SILENT}}{\textcircled{\tiny{1}}}$ (SILENT) buttons simultaneously for about 5 seconds when the remote controller is OFF.

" ‡ ", "○", " **\$** " and " **¬** " will be displayed for about 10 seconds. Later, " ‡" and " **¬** " will remain.

This indicates that COOLING and DEHUMIDIFYING mode operation is locked.

When pressing MODE (MODE) button, " ♣ " or " ○ " will be displayed.

■ Method to unlock COOLING and DEHUMIDIFYING modes (including FAN) operations.

Press (ECO) and (SILENT) buttons simultaneously for about 5 seconds when the remote controller is OFF.

All operation mode symbols will appear on the display for about 10 seconds. After that, operation mode symbol before cancellation will be displayed.

This indicates that COOLING and DEHUMIDIFYING modes operation is unlocked.

- Operation Mode Lock function will not activate if TIMER reservations activate.
 TIMER reservations shall be deactivated first. Then, Operation Mode Lock function can be activated.
- HEATING, COOLING and DEHUMIDIFYING mode (including FAN) operations can be unlocked by pressing the RESET (RESET) button. However, by pressing the RESET (RESET) button, all the information stored in the remote controller will disappear. You may need to set the necessary information again.
- For multi connections, unit and mode which is set to lock HEATING and switched on first shall have higher priority. Other units which are chosen to operate at different modes shall be in STANDBY until either the first unit operation is switched off or the mode is selected to be same as the first unit.

MAINTFNANCE



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



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
- Grasp the left and right sides of the front panel and open it toward you.



Remove the filters.



Remove dust of the filters using a vacuum cleaner.

 After using neutral detergent, wash with clean water and dry in shade.

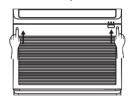


Attach the filters.



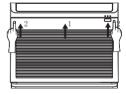
Close the front panel.

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











A CAUTION

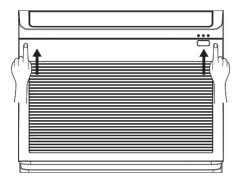
- Do not wash with hot water at more than 40°C. The filter may shrink.
- · When washing it, shake off moisture completely and dry it in the shade; do not expose it directly to the sun. The filter may shrink. And also use a soft sponge to wash. Using a scrubber or brush cause the metal film on the surface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

2. HOW TO INSTALL AND REMOVE THE FRONT PANEL

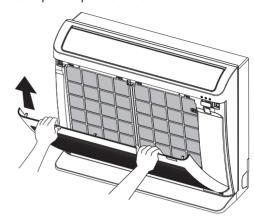
Be sure to use both hands to grasp the front panel when removing it or attaching it.

Removing

1 Press at the top left and right corners of the front panel.



2 Grasp the left and right sides of the front panel and pull it up to remove.



Attaching

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

2 Close 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.



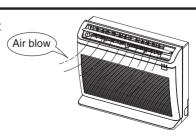
A CAUTION

- 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-CFH15)

- 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.



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.



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



• 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.

VARIOUS FUNCTIONS

- When fan speed, room temperature are set with the remote controller before starting manual operation and the buttons are released, the indication of settings will go off in 10 seconds and only the operation mode will be displayed.
- Pressing the button while the unit is in operation will let the protective circuit work so that the unit will not operate for approximately 3 minutes.
- During heating operation, the indoor unit's color indicator lamp may flash with no air emitted for a while.
- If you feel cold wind during warming operation with the (HI) fan speed or want to make the unit operation guieter after the room is heated, use of (AUTO) setting is recommended.
- With the (SILENT) setting, the unit's cooling capability will lower slightly.

TIMER PROGRAMMING/SLEEP TIMER OPERATION

- When the timer has been programmed, the unit will not operate even if the set time is reached unless the unit receives a signal from the remote controller. Confirm that timer programming is complete (beep) and the TIMER lamp of the indoor unit lights.
- If the ON/OFF timer is programmed, the sleep timer takes priority.
- During sleep timer operation, the fan speed sets to Ξ (SILENT) regardless of the preset speed. The remote controller display indication will remain unchanged even with the Ξ (SILENT) setting.

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?
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"?

■ The following phenomena do not indicate unit failure.

During heating, the operation indicator	<operation start=""> The unit is preparing to blow warm air. Please wait.</operation>
blinks and air blow stops	<pre><in operation=""> The outdoor unit is defrosting. Please wait.</in></pre>
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 OPERATION 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.



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.