

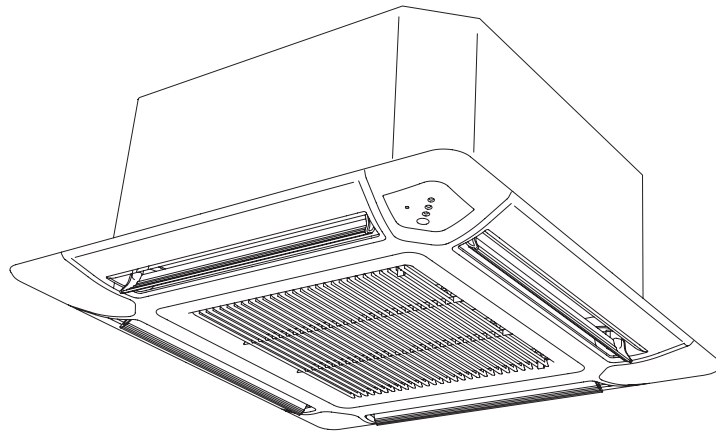


INVERTER

AIR CONDITIONER
Compact Cassette Type

OPERATING MANUAL

RICH07AVFJ
RICH09AVFJ
RICH12AVFJ
RICH18AVFJ



KEEP THIS OPERATING MANUAL
FOR FUTURE REFERENCE



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SAFETY PRECAUTIONS

- Before using the appliance, read these "SAFETY PRECAUTIONS" thoroughly and operate in the correct way.
- The instructions in this section all relate to safety; be sure to maintain safe operating conditions.
- "DANGER", "WARNING" and "CAUTION" have the following meanings in these instructions:

DANGER!	This mark indicates procedures which, if improperly performed, are most likely to result in the death or serious injury to the user or service personnel.
WARNING!	This mark indicates procedures which, if improperly performed, might lead to the death or serious injury of the user or service personnel.
CAUTION!	This mark indicates procedures which, if improperly performed, might possibly result in personal harm to the user or damage to property.

DANGER!

- Do not attempt to install this air conditioner by yourself.
- This unit contains no user-serviceable parts. Always consult authorized service personnel for repairs.
- When moving, consult authorized service personnel for disconnection and installation of the air conditioner.
- Do not become excessively chilled by staying for many hours in the direct cooling airflow.
- Do not insert fingers or objects into the outlet port or intake grilles.
- Do not start and stop air conditioner operation by turning off the electrical breaker.
- Take care not to damage the power supply cable.
- If the power supply cable of this appliance is damaged, it should only be replaced by the authorized service personal, since special purpose tools and specified cable are required.
- In the event of a malfunction (burning smell, etc.), immediately stop operation, turn off the electrical breaker, and consult authorized service personnel.
- In the event of refrigerant leakage, be sure to keep away from fire or any flammables. (consult an authorized service personnel)

CAUTION!

- Provide occasional ventilation during use.
- Do not direct airflow at fireplaces or heating apparatus.
- Do not climb on, or place objects on, the air conditioner.
- Do not hang objects from the indoor unit.
- Do not set flower vases or water containers on top of air conditioners.
- Do not expose the air conditioner directly to water.
- Do not operate the air conditioner with wet hands.
- Do not pull power supply cable.
- Turn off power source when not using the unit for extended periods.
- Always turn off the electrical breaker whenever cleaning the air conditioner or changing the air filter.
- Connection valves become hot during Heating; handle with care.
- Check the condition of the installation stand for damage.
- Do not place animals or plants in the direct path of the airflow.
- When restarting after a long period of disuse in the winter, turn the power switch on at least 12 hours before starting the unit.
- Do not drink the water drained from the air conditioner.
- Do not use in applications involving the storage of foods, plants or animals, precision equipment, or art works.
- Do not apply any heavy pressure to radiator fins.
- Operate only with air filters installed.
- Do not block or cover the intake grille and outlet port.
- Ensure that any electronic equipment is at least 40 in (1m) away from either the indoor or outdoor units.
- Avoid installing the air conditioner near a fireplace or other heating apparatus.
- When installing the indoor and outdoor units, take precautions to prevent access by infants.
- Do not use inflammable gases near the air conditioner.
- Install the drain hose so that it drains water properly.
- This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety. Children should be supervised to ensure that they do not play with the appliance.



FEATURES AND FUNCTIONS

■ Energy saving and Comfortable function

INVERTER

At the start of operation, large amount of power is used to bring the room quickly to the desired temperature. Afterwards, the unit automatically switches to a low power setting for economic and comfortable operation.

ECONOMY OPERATION

When ECONOMY operation mode is operated, the room temperature will be little higher than the set-temp under cooling mode and lower than set-temp under heating mode. Therefore, the ECONOMY mode is able to save more energy than other normal mode.

SWING OPERATION

The Airflow Direction Louvers swings automatically up and down so that the air speeds to every nook and corner of your room.

SUPER QUIET OPERATION

When the FAN button is used to select QUIET, the indoor unit begins super-quiet operation; the indoor unit's airflow is reduced to produce quieter operation.

AUTO CHANGEOVER

The operation mode (cooling, dry, heating) is switched automatically to maintain the set temperature, and the temperature is kept constant at all times.

■ Convenient function

WEEKLY TIMER

Use this timer function to set operating times for each day of the week. Use the DAY OFF setting to switch off timed operation for a selected day in the coming week. Because all days can be set together, the weekly timer can be used to repeat the timer settings for all of the days.

TEMPERATURE SET BACK TIMER

Use this timer function to change the set temperature in the operation times set for each day of the week. This can be used together with other timer settings.

■ Clean function

REMOVABLE INTAKE GRILLE

The indoor unit's intake grille can be removed for easy cleaning and maintenance.

MILDEW-RESISTANT FILTER

The AIR FILTER has been treated to resist mildew growth, thus allowing cleaner use and easier care.

■ Remote controller

WIRED REMOTE CONTROLLER

The wired remote controller allows convenient control of indoor unit operation.

WIRELESS REMOTE CONTROLLER (OPTION)

The optional wireless remote controller can be used. When you use remote controller, there are following different points as compared with using wired remote controller.

[The additional function for wireless ones]

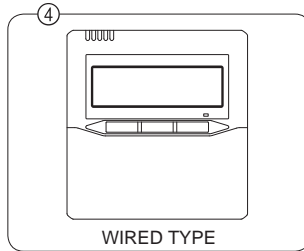
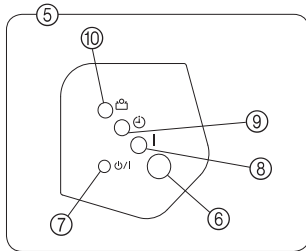
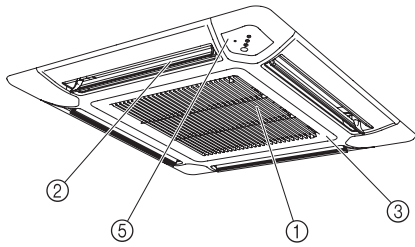
- SLEEP
- TIMER
- MINIMUM HEAT

And you can use both wireless and wired remote controller simultaneously. (But function is limited.)

[The restricted functions for wired ones]

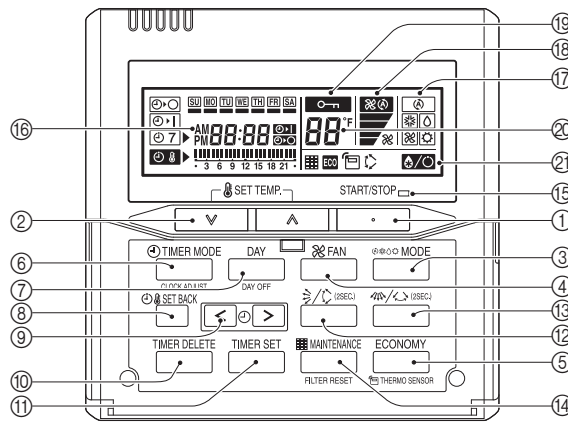
- Weekly timer
- Temperature set back timer

NAME OF PARTS



- ① Air Filter (In Air Intake Grille)
- ② Airflow Direction Flaps
- ③ Air Intake Grille
- ④ Remote Controller (Wired)
- ⑤ Control Panel
- ⑥ Remote Control Signal Receiver
- ⑦ **MANUAL AUTO Button**
 - When the MANUAL AUTO button is pressed in for more than 10 seconds, the forced cooling operation will start.
 - The forced cooling operation is used at the time of installation. Only for authorized service personnel's use.
 - When the forced cooling operation starts by any chance, press the START/STOP button to stop the operation.
 - Please press the button at FILTER INDICATOR RESET.
- ⑧ **OPERATION Indicator Lamp (Green)**
- ⑨ **TIMER Indicator Lamp (Orange)**
 - TIMER Indicator lamp lights when the timer is set from wireless remote control.
- ⑩ **ECONOMY Indicator Lamp (Green)**
 - ECONOMY indicator lamp lights when ECONOMY OPERATION and MINIMUM HEAT OPERATION is operating.

Remote controller



- ① START/STOP Button
 - ② SET TEMP. (Temperature) Button
 - ③ MODE Button
 - ④ FAN Button
 - ⑤ ECONOMY Button
 - ⑥ TIMER MODE (CLOCK ADJUST) Button
 - ⑦ DAY (DAY OFF) Button
 - ⑧ SET BACK Button
 - ⑨ SET TIME (< >) Button
 - ⑩ TIMER DELETE Button
 - ⑪ TIMER SET Button
 - ⑫ Vertical Airflow Direction and Swing Button
 - ⑬ Horizontal Airflow Direction and Swing Button (This function cannot be used)
 - ⑭ MAINTENANCE (FILTER RESET) Button^{#1}
 - ⑮ Operation Lamp
 - ⑯ Timer and Clock Display
 - ⑰ Operation Mode Display
 - ⑱ Fan Speed Display
 - ⑲ Operation Lock Display
 - ⑳ Temperature Display
 - ㉑ Function Display
 - ❄️ Defrost Display
 - 🌡️ Thermo Sensor Display
 - ECO ECONOMY Display
 - ↕️ Vertical Swing Display
 - 📊 Filter Display^{#1}
- ^{#1}: Can be used if set correctly during installation. Please consult authorized serviceman when using this function.

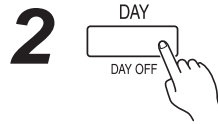


PREPARATORY OPERATION

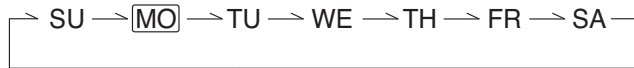
Set the current day and time



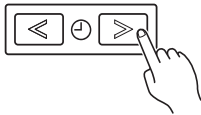
1 **TIMER MODE**
CLOCK ADJUST
Press the TIMER MODE (CLOCK ADJUST) button for 2 seconds or more. The time display on the remote controller will flash.



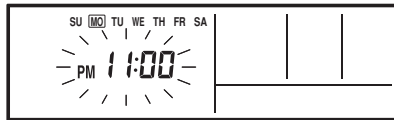
2 **DAY**
DAY OFF
Press the DAY button and select the current day. A appears around the selected day.



3



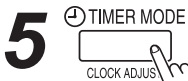
Press the SET TIME (<>) buttons to set the current time. Press repeatedly to adjust the current time in 1-minute increments. Press and hold to adjust the current time in 10-minute increments.



ex. Monday PM 11:00



4 **SET BACK**
Press the SET BACK button to switch between the 12- and 24-hour time displays.

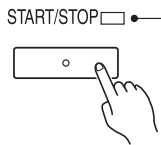


5 **TIMER MODE**
CLOCK ADJUST
Press again to end.

OPERATION

Instructions relating to heating are applicable only to "HEAT & COOL MODEL" (Reverse Cycle).

To start/stop operation



Press the START/STOP button.

Operation lamp

Air conditioner ON: Lit brightly
Air conditioner OFF: Not lit



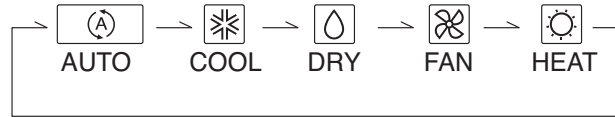
OPERATION

To set the operation mode

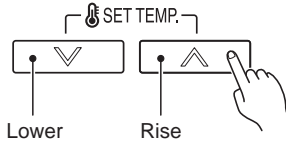
● Operation mode setting



Press the MODE button to set the operation mode.
If DRY is selected, the fan speed will be set to AUTO.



● Room temperature setting



Press the SET TEMP. buttons to set the room temperature.

Temperature setting range

AUTO	64 to 88 °F
COOL/DRY	64 to 88 °F
HEAT	60 to 88 °F

● Fan speed setting



Press the FAN button to set the fan speed.



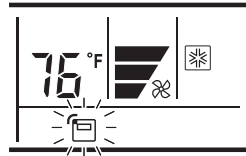
ECONOMY OPERATION



Press the ECONOMY button to start or stop ECONOMY OPERATION.
For details on the function, refer to page 11.

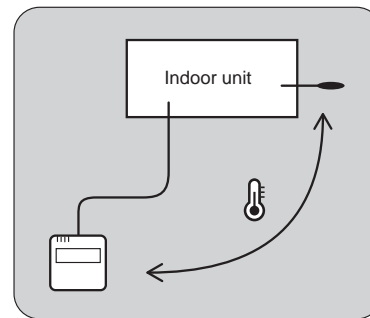
Room temperature sensor selection

- This function is locked at the factory. In order to detect the room temperature correctly, consult authorized service personnel when using this function.



Press the ECONOMY button for more than 2 seconds to select whether the room temperature is detected at the indoor unit or the remote controller.

When the thermo sensor display appears, the room temperature is detected at the remote controller.

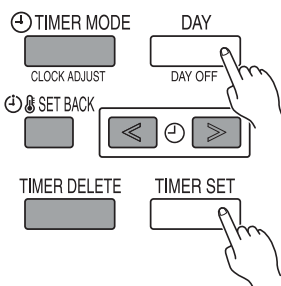


NOTES

- If this function is locked, the location where the room temperature is detected cannot be changed and the mark flashes when the ECONOMY button is pushed for 2 seconds or more.

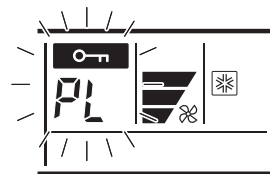
OPERATION

Part lock function



Press the DAY (DAY OFF) button and TIMER SET button simultaneously for 2 seconds or more to activate the part lock function and lock all of the buttons on the remote controller except the START/STOP button, SET TEMP. buttons, MODE button, and FAN button. Press the buttons again for 2 seconds or more to deactivate the part lock function.

When the part lock function is activated, the mark appears. If any button is pressed during the part lock, the **PL** display flashes.



TIMER FUNCTIONS



OFF timer (See page 6.)

Use this timer function to stop air conditioner operation. The timer operates and air conditioner operation stops after the set time has passed. The timer can be set up to 24 hours in advance.



ON timer (See page 6.)

Use this timer function to start air conditioner operation. The timer operates and air condition operation starts after the set time has passed. The timer can be set up to 24 hours in advance.



WEEKLY timer (See page 7.)

Use this timer function to set operating times for each day of the week.

Use the DAY OFF setting to switch off timed operation for a selected day in the coming week.

Because all days can be set together, the weekly timer can be used to repeat the timer settings for all of the days.



Temperature SET BACK timer (See page 9.)

Use this timer function to change the set temperature in the operation times set for each day of the week.

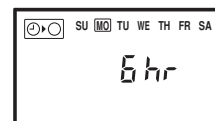
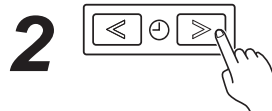
This can be used together with other timer settings.

ON/OFF TIMER

To set the ON/OFF timer

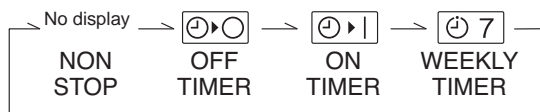


Press the TIMER MODE button to select the ON timer or OFF timer.



From 1 to 24 hours

ex. OFF timer set for 6 hours



Press the SET TIME (<>) buttons to set the time. After the time is set, the timer will start automatically. The amount of time until the OFF timer operates that is displayed on the timer display decreases as time passes.

To cancel

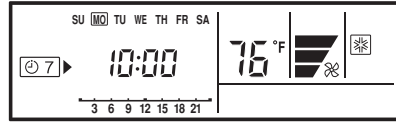
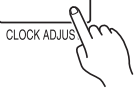


- Press the TIMER DELETE button to cancel the timer mode.
- The timer mode can also be canceled by changing the timer mode using the TIMER MODE button.

WEEKLY TIMER

Weekly timer setting

1 **TIMER MODE**
CLOCK ADJUST



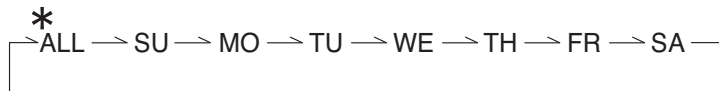
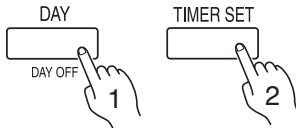
Press the TIMER MODE button to select the weekly timer.

2 **TIMER SET**



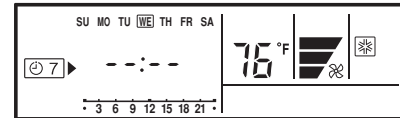
Press the TIMER SET button for 2 seconds or more.

3 ● **Day of the week setting**

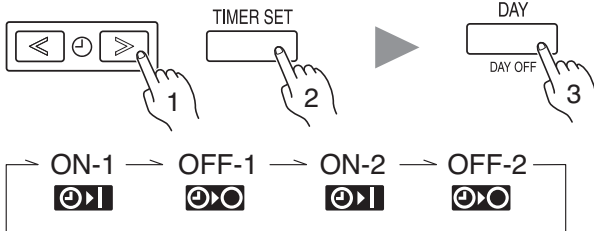


Press the DAY button to select the day of the week, and then press the TIMER SET button to confirm the setting.

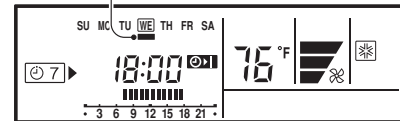
* For ALL, all of the days can be set together when a appears around each day.



4 ● **Time setting**



When the operating time is set, the mark appears.



ex. The timer is set for 7:00-18:00.

Press the SET TIME (< >) buttons to set the time, and then press the TIMER SET button to confirm the setting and proceed to the next ON or OFF time setting.

Up to 2 times ON and OFF times can be set per day.

Press the DAY button to complete the time setting and return to the day of the week setting.

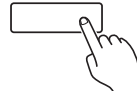
5 **TIMER SET**



Repeat steps **3** and **4**.
To complete the weekly timer settings, press the TIMER SET button for 2 seconds or more.

● **To delete the operating time**

TIMER DELETE



If the TIMER DELETE button is pressed during steps **3** or **4**, the operating time for the selected day will be deleted.
If all the days are selected, the operating times for all of the days will be deleted.

NOTES

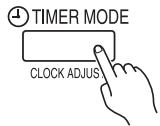
- The operating time can be set in 30-minute increments only.
- The OFF time can be carried over to the next day.
- The ON timer and the OFF timer functions cannot be set using the weekly timer. Both an ON and OFF time must be set.



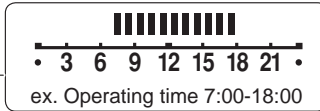
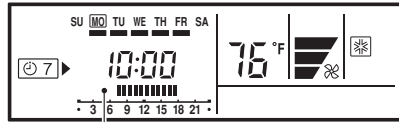
WEEKLY TIMER

WEEKLY timer operation

● To start



When the weekly timer is selected, the timer starts automatically.



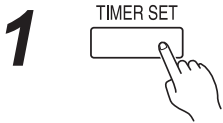
The operating time for the current day is displayed.

● To cancel

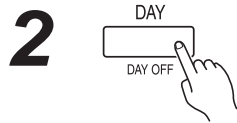


- Press the TIMER DELETE button to cancel the timer mode.
- The timer mode can also be canceled by changing the timer mode using the TIMER MODE button.

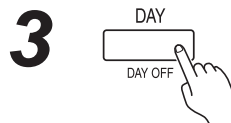
To set the DAY OFF (for a holiday)



1 During the weekly timer, press the TIMER SET button for 2 seconds or more to set the day.



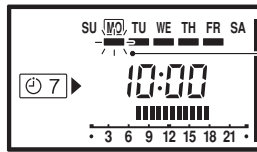
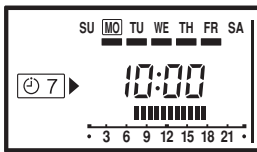
2 Select the day to set the DAY OFF.




3 Press the DAY (DAY OFF) button for 2 seconds or more to set the DAY OFF.



4 Press the TIMER SET button for 2 seconds or more to complete the DAY OFF setting.



The  mark flashes under a day of the week.

ex. The DAY OFF is set for Monday.

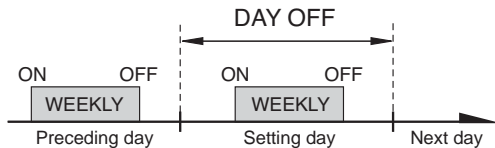
● To cancel

Follow the same procedures as those for setup.

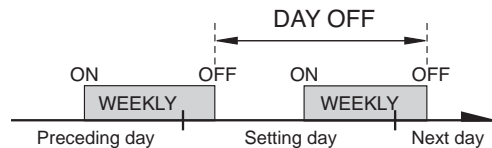
i NOTES

- The DAY OFF setting is only available for days for which weekly settings already exist.
- If the operating time carries over to the next day (during a next day setting), the effective DAY OFF range will be set as shown below.

● Normal



● Next day setting

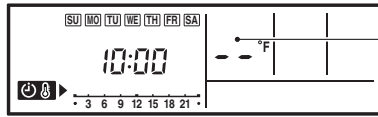
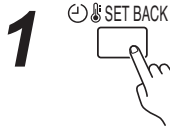


- The DAY OFF setting can only be set 1 time. The DAY OFF setting is cancelled automatically after the set day has passed.



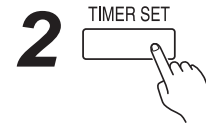
TEMPERATURE SET BACK TIMER

Temperature SET BACK timer setting

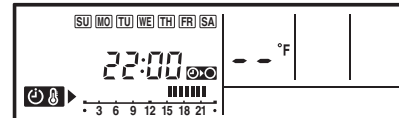
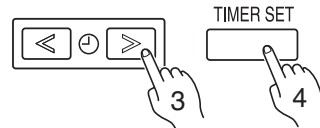
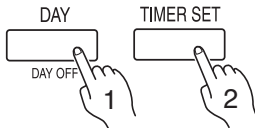


If there is no existing SET BACK temperature setting, “- -” will be displayed for the temperature.

Press the SET BACK button to change to the SET BACK confirmation display. The SET BACK operating time and the set temperature will be displayed.

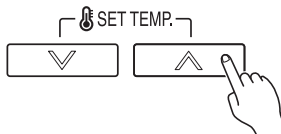
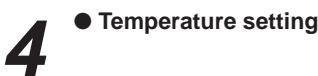


Press the TIMER SET button for 2 seconds or more.

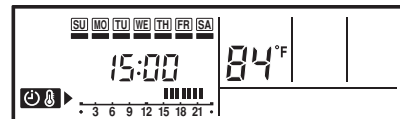


ex. When setting all days together

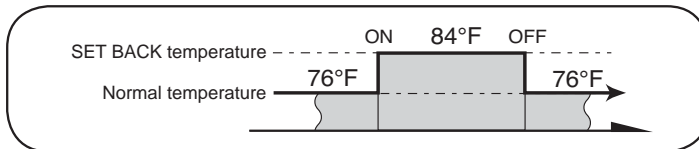
Follow the same procedures to set the operating time as those for the weekly timer. The TIMER DELETE button is also used as described in the procedures for the weekly timer.



Press the SET TEMP. buttons to set the temperature. (The temperature setting range is the same as the range for the operation mode.)



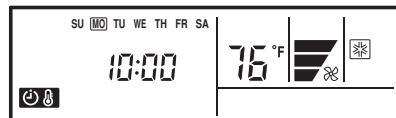
ex. Operating time 15:00–22:00



Repeat steps **3** and **4**. Press the TIMER SET button for 2 seconds or more to complete the temperature SET BACK timer settings.

Temperature SET BACK timer operation

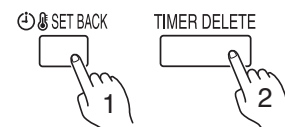
● To start



ex. Display during SET BACK timer operation (The operating time will not be displayed.)

Press the SET BACK button. The SET BACK confirmation display appears for 5 seconds, and then the timer starts automatically.

● To cancel



Press the SET BACK button, and then press the TIMER DELETE button. The SET BACK confirmation display is displayed. Even if the SET BACK button is pressed again, the SET BACK timer will be cancelled.

NOTES

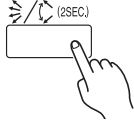
- The SET BACK timer only changes the set temperature, it cannot be used to start or stop air conditioner operation.
- The SET BACK timer can be set to operate up to 2 times per day but only 1 temperature setting can be used.
- The SET BACK timer can be used together with the ON, OFF, and weekly timer functions.
- The SET BACK timer operating time is displayed only in the SET BACK confirmation display. (Refer to step 1 for the SET BACK confirmation display.)

ADJUSTING THE DIRECTION OF AIR CIRCULATION

Instructions relating to heating (*) are applicable only to "HEAT & COOL MODEL" (Reverse Cycle).
Start air conditioner operation before performing this procedure.

To set the operation mode

● Vertical air direction adjustment



* Press the **START/STOP** button to start the air conditioner, and then proceed as follows.

Press the **VERTICAL AIRFLOW DIRECTION** and **SWING** button to adjust the direction of the vertical airflow.

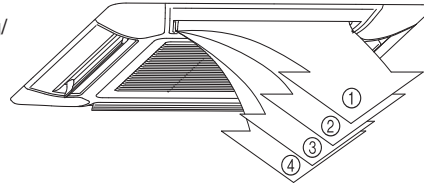
Each time the button is pressed, the air direction range will change as follows:



The remote controller's display does not change.

Airflow Direction Setting:

①, ②, ③, ④: During Cooling/Heating/Dry mode



- Attempting to move up/down air direction flaps manually could result in improper operation; in this case, stop operation and restart. The louvers should begin to operate properly again.

- When used in a room with infants, children, elderly or sick persons, the air direction and room temperature should be considered carefully when making settings.

- The vertical airflow direction is set automatically as shown, in accordance with the type of operation selected.

During Cooling/Dry mode : Horizontal flow ①

* During Heating mode : Downward flow ④

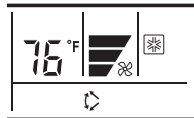
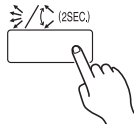
- During AUTO mode operation, for the first minute after beginning operation, airflow will be horizontal ①; the air direction cannot be adjusted during this period.

- **Horizontal air direction adjustment.**
The function cannot be used.

SWING OPERATION

Begin air conditioner operation before performing this procedure.

To select/stop swing operation



Press the **VERTICAL AIRFLOW DIRECTION** and **SWING** button for more than 2 seconds. (Stop the setting by pressing for more than 2 seconds again.)

About Swing Operation

The type of operation	Range of swing
Cooling/Heating/Dry/Fan	① to ④

- The SWING operation may stop temporarily when the air conditioner's fan is not operating, or when operating at very low speeds.



ECONOMY OPERATION

Begin Air Conditioner operation before performing this procedure.

To Use the ECONOMY Operation

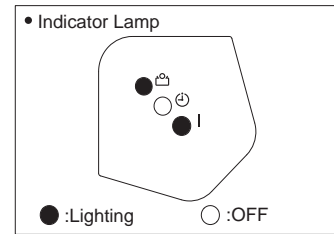
Press the ECONOMY button.

The ECONOMY Indicator Lamp (green) will light.
ECONOMY operation begins.

To Stop the ECONOMY Operation

Press the ECONOMY button again.

The ECONOMY Indicator Lamp (green) will go out.
Normal operation begins.



About ECONOMY Operation

At the maximum output, ECONOMY Operation is approximately 70% of normal air conditioner operation for cooling and heating.

- If the room is not cooled (or heated) well during ECONOMY operation, select normal operation.
- During the monitor period in the AUTO mode, the air conditioner operation will not change to ECONOMY operation even if ECONOMY operation is selected by pressing the ECONOMY operation button.
- When ECONOMY operation mode is operated, the room temperature will be little higher than the set-temp under cooling mode and lower than set-temp under heating mode. Therefore, the ECONOMY mode is able to save more energy than other normal mode.

In case of multi-type air conditioner, the ECONOMY operation mode is only available for the set indoor unit.

MANUAL AUTO OPERATION

Use the MANUAL AUTO operation in the event the Remote Controller is lost or otherwise unavailable.

How To Use the Main Unit Controls

Press the MANUAL AUTO button more than 3 seconds and less than 10 seconds on the main unit control panel.

To stop operation, press the MANUAL AUTO button once again.
(Controls are located inside the intake grille)



- When the air conditioner is operated with the controls on the MANUAL AUTO button, it will operate under the same mode as the AUTO mode selected on the Remote Controller.
- The fan speed selected will be "AUTO" and the thermostat setting will be standard.(76°F)

CLEANING AND CARE



CAUTION!

- Before cleaning the unit, be sure to stop the unit and disconnect the power supply.
- Turn off the electrical breaker.
- A fan operates at high speed inside the unit, and personal injury could result.
- Be careful not to drop the intake grille.

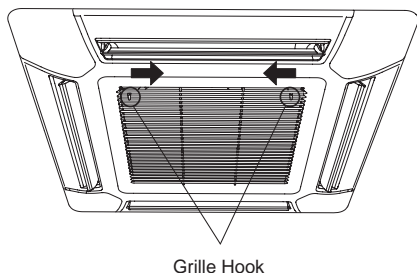
- When used for extended periods, the unit may accumulate dirt inside, reducing its performance. We recommend that the unit be inspected regularly, in addition to your own cleaning and care. For more information, consult authorized service personnel.
- When cleaning the unit's body, do not use water hotter than 104 °F, harsh abrasive cleansers, or volatile agents like benzene or thinner.
- Do not expose the unit body to liquid insecticides or hairsprays.
- If the unit will not be operated for a period of 1 month or more, be sure to allow the inner parts of the unit to dry thoroughly, in advance, by operating the unit in fan mode for half a day.



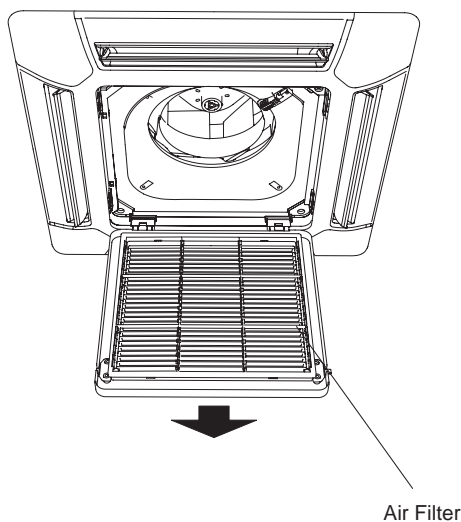
CLEANING AND CARE

Cleaning the Air Filter

1. Push the intake grille's hooks inward towards the center of the unit to open the intake grille.



2. Pull out the filter from the intake grille.

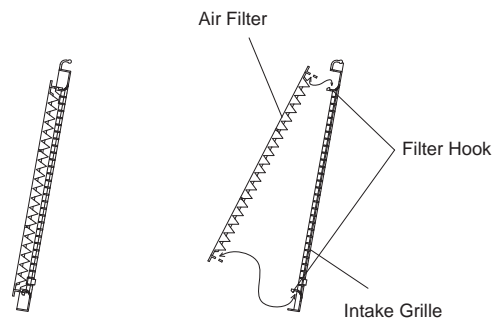


3. Clean the air filter.

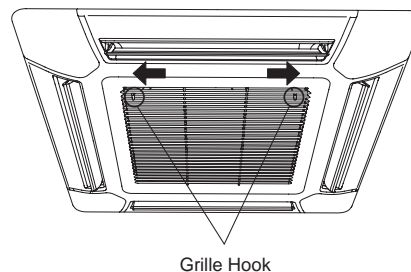
Remove the dust from the air filters by vacuuming or washing them. After washing, allow the air filters to dry thoroughly in an area protected from sunlight.

4. Re-attach the air filters to the intake grille.

- ① Replace the air filter into its holder.
- ② Make sure that the air filter makes contact with the filter stopper when it is replaced into its holder.



5. Close the intake grille and push the intake grille's hooks outward.



- Dust can be cleaned from the air filter either with a vacuum cleaner, or by washing the filter in a solution of mild detergent and warm water. If you wash the filter, be sure to allow it to dry thoroughly in a shady place before re-installing.
- If dirt is allowed to accumulate on the air filter, airflow will be reduced, lowering operating efficiency and increasing noise.

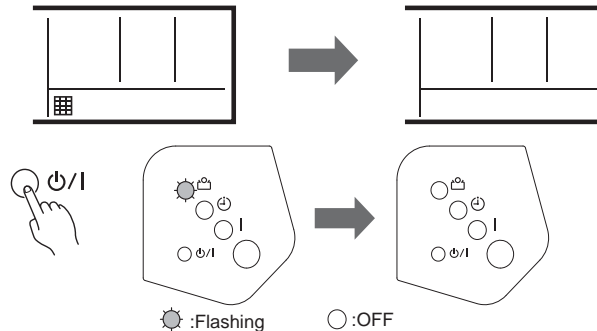
Filter Indicator Reset (A special setting)

- Can be used if set correctly during installation. Please consult authorized serviceman when using this function.

- It lights on when it is time to clean the air filters.



After turning the power on, press the MAINTENANCE button for 2 seconds or more on the remote control, or press the MANUAL AUTO button for 2 seconds or less on the indoor unit.



TROUBLESHOOTING




Instructions relating to heating (*) are applicable only to "HEAT & COOL MODEL" (Reverse Cycle).



WARNING!

In the event of a malfunction (burning smell, etc.), immediately stop operation, turn off the electrical breaker, and consult authorized service personnel.
Merely turning off the unit's power switch will not completely disconnect the unit from the power source. Always be sure to turn off the electrical breaker to ensure that power is completely off.

Before requesting service, perform the following checks:

	Symptom	Problem	See Page
NORMAL FUNCTION	Doesn't operate immediately:	<ul style="list-style-type: none"> ● If the unit is stopped and then immediately started again, the compressor will not operate for about 3 minutes, in order to prevent fuse blowouts. ● Whenever the electrical breaker is turned off then on again, the protection circuit will operate for about 3 minutes, preventing unit operation during that period. 	—
	Noise is heard:	<ul style="list-style-type: none"> ● During operation and immediately after stopping the unit, the sound of water flowing in the air conditioner's piping may be heard. Also, noise may be particularly noticeable for about 2 to 3 minutes after starting operation (sound of coolant flowing). ● During operation, a slight squeaking sound may be heard. This is the result of minute expansion and contraction of the front panel due to temperature changes. 	—
		*● During Heating operation, a sizzling sound may be heard occasionally. This sound is produced by the Automatic Defrosting operation	14
	Smells:	<ul style="list-style-type: none"> ● Some smell may be emitted from the indoor unit. This smell is the result of room smells (furniture, tobacco, etc.) which have been taken into the indoor unit. 	—
	Mist or steam are emitted:	<ul style="list-style-type: none"> ● During Cooling or Dry operation, a thin mist may be seen emitted from the indoor unit. This results from the sudden Cooling of room air by the air emitted from the indoor unit, resulting in condensation and misting. 	—
		*● During Heating operation, the outdoor unit's fan may stop, and steam may be seen rising from the unit. This is due to the Automatic Defrosting operation.	14
	Airflow is weak or stops:	*● When Heating operation is started, fan speed is temporarily very low, to allow internal parts to warm up.	—
		*● During Heating operation, if the room temperature rises above the thermostat setting, the outdoor unit will stop, and the indoor unit will operate at very low fan speed. If you wish to warm the room further, set the thermostat to a higher setting.	—
		*● During Heating operation, the unit will temporarily stop operation (between 4 and 15 minutes) as the Automatic Defrosting mode operates. During the Automatic Defrosting operation,  will be shown on the remote controller display.	14
		● The fan may operate at very low speed during Dry operation or when the unit is monitoring the room's temperature.	—
		● During QUIET operation, the fan will operate at very low speed.	—
		● In the monitor AUTO operation, the fan will operate at very low speed.	—
		● In case of Multi-type unit, if multiple units are operated in different operation modes as shown below, the units operated afterward will stop and the OPERATION indicator lamp (green) will flash.  will be shown on the remote controller display. Heating mode and cooling mode (or dry mode) Heating mode and fan mode	16
	Water is produced from the outdoor unit:	*● During Heating operation, water may be produced from the outdoor unit due to the Automatic Defrosting operation.	14
The ECONOMY Indicator flashes	● Clean the filter. Afterwards, turn the ECONOMY Indicator off.	12	
 thermo sensor display on the remote controller is flashing:	● The room temperature sensor may be malfunctioning. Please consult authorized service personnel.	—	

TROUBLESHOOTING

Instructions relating to heating (*) are applicable only to "HEAT & COOL MODEL" (Reverse Cycle).

	Symptom	Items to check	See Page
CHECK ONCE MORE	Doesn't operate at all:	<ul style="list-style-type: none"> ● Has the circuit breaker been turned off? ● Has there been a power failure? ● Has a fuse blown out, or a circuit breaker been tripped? 	—
	Poor Cooling (or *Heating) performance:	<ul style="list-style-type: none"> ● Is the timer operating? ● Is the air filter dirty? ● Are the air conditioner's intake grille or outlet port blocked? ● Did you adjust the room temperature settings (thermostat) correctly? ● Is there a window or door open? ● In the case of Cooling operation, is a window allowing bright sunlight to enter? (Close the curtains.) ● In the case of Cooling operation, are there heating apparatus and computers inside the room, or are there too many people in the room? ● Is the unit set for QUIET operation? 	6 to 8

If the problem persists after performing these checks, or if you notice burning smells, stop operation immediately, turn off electric breaker, and consult with authorized service personnel.

OPERATING TIPS

Instructions relating to heating (*) are applicable only to "HEAT & COOL MODEL" (Reverse Cycle).


*Heating Performance

- This air conditioner operates on the heat-pump principle, absorbing heat from outdoor air and transferring that heat indoors. As a result, the operating performance is reduced as outdoor air temperature drops. If you feel that insufficient heating performance is being produced, we recommend you use this air conditioner in conjunction with another type of heating appliance.
- Heat-pump air conditioners heat your entire room by recirculating air throughout the room, with the result that some time may be required after first starting the air conditioner until the room is heated.

*When Indoor and Outdoor Temperature are High

- When both indoor and outdoor temperatures are high during use of the heating mode, the outdoor unit's fan may stop at times.

*Microcomputer-controlled Automatic Defrosting

- When using the Heating mode under conditions of low outdoor temperature and high humidity, frost may form on the outdoor unit, resulting in reduced operating performance.
In order to prevent this kind of reduced performance, this unit is equipped with a Microcomputer-controlled Automatic Defrosting function. During the defrost cycle, the indoor fan will shutdown and /U will be displayed on the remote controller. It will take anywhere from 4 to 15 minutes before the air conditioner starts up again.
- After heating operation stops, if frost forms on the outdoor unit, the unit will start Automatic Defrosting operation. At this time, the outdoor unit will automatically stop after operating for a few minutes.

Low Ambient Cooling

- When the outdoor temperature drops, the outdoor unit's fans may switch to Low Speed, or 1 of the fans may stop intermittently.

Dual Remote Controllers (optional)

An additional remote controller can be added up to the maximum of 2 remote controllers. Either remote controller can control the air conditioner. However, the timer functions cannot be used at the secondary unit.

Group Control

1 remote controller can control up to 16 air conditioners.
All of the air conditioners will be operated with the same settings.
Group control cannot be used when using it by the multi type.



OPERATING TIPS

Mode operation: AUTO

COOLING MODEL

- When the room temperature is 4 °F higher than the set temperature, the mode will switch between Cooling and Drying.
- During the Drying mode operation, the FAN setting should be switched to LOW for a gently cooling effect during which the fan may temporarily stop rotating.

HEAT & COOL MODEL (Reverse Cycle)

Auto changeover function

- When AUTO CHANGEOVER is selected, the air conditioner selects the appropriate operation mode (Cooling or Heating) according to your room's present temperature.
- When AUTO CHANGEOVER is first selected, the fan will operate at a very low speed for about a few minutes while the unit determines the current conditions of the room and selects the proper operation mode.
- When the room temperature is near the thermostat setting, the air conditioner will begin monitor operation. In the monitor operation mode, the fan will operate at a very low speed. If the room temperature subsequently changes, the air conditioner will once again select the appropriate operation (Heating or Cooling) to adjust the temperature to the value set in the thermostat.

If the difference between thermostat setting and actual room temperature is more than +4 °F

→ Cooling operation

If the difference between thermostat setting and actual room temperature is within ±4 °F

→ Determined by outdoor temperature

If the difference between thermostat setting and actual room temperature is more than -4 °F

→ Heating operation

About Mode Operation

Heating: ● Use to warm your room.

- When Heating mode is selected, the air conditioner will operate at very low fan speed for about 3 to 5 minutes, after which it will switch to the selected fan setting. This period of time is provided to allow the indoor unit to warm up before beginning full operation.
- When the room temperature is very low, frost may form on the outside unit, and its performance may be reduced. In order to remove such frost, the unit will automatically enter the defrost cycle from time to time. During Automatic Defrosting operation, and the heat operation will be interrupted.
- After the start of heating operation, it takes sometime before the room gets warmer.

Cooling: ● Use to cool your room.

Dry: ● Use for gently cooling while dehumidifying your room.

- You cannot heat the room during Dry mode.
- During Dry mode, the unit will operate at low speed; in order to adjust room humidity, the indoor unit's fan may stop from time to time. Also, the fan may operate at very low speed when adjusting room humidity.
- The fan speed cannot be changed manually when Dry mode has been selected.

Fan: ● Use to circulate the air throughout your room.

During Heating mode:

Set the thermostat to a temperature setting that is higher than the current room temperature. The Heating mode will not operate if the thermostat is set lower than the actual room temperature.

During Cooling/Dry mode:

Set the thermostat to a temperature setting that is lower than the current room temperature. The Cooling and Dry modes will not operate if the thermostat is set higher than the actual room temperature (in Cooling mode, the fan alone will operate).

During Fan mode:

You can not use the unit to heat and cool your room.

AUTO Restart

In Event of Power Interruption

- Should the power supply to the air conditioner be interrupted by a power failure, the air conditioner will restart automatically in the previously selected mode once the power is restored.
- Use of other electrical appliances (electric shaver, etc.) or nearby use of a wireless radio transmitter may cause the air conditioner to malfunction. In this event, temporarily disconnect the power supply, reconnect it, and then use the remote controller to resume operation.





OPERATING TIPS


Multi-typer Air conditioner

This indoor unit can be connected to a multi-type outdoor unit. The multi-type air conditioner allows multiple indoor units to be operated in multiple locations. The indoor units may be operated simultaneously, in accordance with their respective output.


Simultaneous Use of Multiple Units

Instructions relating to inverter (*) are applicable only to "INVERTER MODEL".

- When using a multi-type air conditioner, the multiple indoor units can be operated simultaneously, but when 2 or more indoor units of the same group are operated simultaneously, the heating and cooling efficiency will be less than when a single indoor unit is used alone. Accordingly, when you wish to use more than 1 indoor unit for cooling at the same time, the use should be concentrated at night and other times when less output is required. In the same way, when multiple units are used simultaneously for heating, it is recommended that they be used in conjunction with other auxiliary space heaters, as required.
- Seasonal and outdoor temperature conditions, the structure of the rooms and the number of persons present may also result in differences of operating efficiency. We recommend that you try various operating patterns in order to confirm the level of heating and cooling output provided by your units, and use the units in the way that best matches your family's lifestyle.
- If you discover that 1 or more units delivers a low level of cooling or heating during simultaneous operation, we recommend that you stop simultaneous operation of the multiple units.
- * ● Operation cannot be done in the following different operating modes.

If the indoor unit is instructed to do an operating mode that it cannot perform,  will be shown on the remote controller display and the unit will go into the standby mode.

 - Heating mode and cooling mode (or dry mode)
 - Heating mode and fan mode
- * ● Operation can be done in the following different operating modes.
 - Cooling mode and dry mode
 - Cooling mode and fan mode
 - Dry mode and fan mode
- * ● The operating mode (heating mode or cooling (dry) mode) of the outdoor unit will be determined by the operating mode of the indoor unit that was operated first. If the indoor unit was started in fan mode, the operating mode of the outdoor unit will not be determined.

For example, if indoor unit (A) was started in fan mode and then indoor unit (B) was then operated in heating mode, indoor unit (A) would temporarily start operation in fan mode but when indoor unit (B) started operating in heating mode,  will be shown on the unit (A) remote controller display and it would go into standby mode. Indoor unit (B) would continue to operate in heating mode.

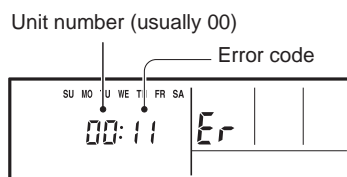
Notice

Instructions relating to heating (*) are applicable only to "HEAT & COOL MODEL" (Reverse Cycle).

- * ● During use of the heating mode, the outdoor unit will occasionally commence the defrost operation for brief periods. During the defrosting operation, if the user sets the indoor unit for heating again, the defrosting mode will continue, and the heating operation will begin after completion of defrosting, with the result that some time may be required before warm air is emitted.
- * ● During use of the heating mode, the top of the indoor unit may become warm, but this is due to the fact that coolant is circulated through the indoor unit even when it is stopped; it is not a malfunction.

SELF-DIAGNOSIS

When "Er" in Temperature Display is displayed, inspection of the air conditioning system is necessary. Please consult authorized service personnel.



ex. Self-diagnosis check

