

DAIKIN ROOM AIR CONDITIONER

# OPERATION MANUAL

**INVERTER**



## MODELS

FVXS60HVMA  
FVXS71HVMA

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# Safety Precautions

- Keep this manual where the operator can easily find them.
- Read the precautions in this manual carefully before operating the unit.
- The precautions described herein are classified as WARNING and CAUTION. They both contain important information regarding safety. Be sure to observe all precautions without fail.

 <b>WARNING</b>	 <b>CAUTION</b>
Failure to follow these instructions properly may result in personal injury or loss of life.	Failure to observe these instructions properly may result in property damage or personal injury, which may be serious depending on the circumstances.

 Never attempt.	 Never wet the air conditioner nor the remote controller with water.
 Be sure to follow the instructions.	 Never touch the air conditioner nor the remote controller with wet hands.
 Be sure to establish an earth connection.	

- After reading, keep this manual in a convenient place so that you can refer to it whenever necessary. If the equipment is transferred to a new user, be sure also to hand over the manual.

## **WARNING**

- 
  - In order to avoid fire, explosion or injury, do not operate the unit when harmful, among which flammable or corrosive gases, are detected near the unit.
  - Be aware that prolonged, direct exposure to cool or warm air from the air conditioner, or to air that is too cool or too warm can be harmful to your physical condition and health.
  - Do not place objects, including rods, your fingers, etc., in the air inlet or outlet. Product malfunctioning, product or injury damage may result due to contact with the air conditioner's high-speed fan blades.
  - Do not attempt to repair, dismantle reinstall or modify the air conditioner yourself as this may result in water leakage, electric shocks or fire hazards.
  - Do not use flammable spray near the air conditioner, or otherwise fire may result.
- 
  - Beware of fire in case of refrigerant leakage. If the air conditioner is not operating correctly, i.e. not generating cool or warm air, refrigerant leakage could be the cause. Consult your dealer for assistance. The refrigerant within the air conditioner is safe and normally does not leak. However, in the event of a leakage, contact with a naked burner, heater or cooker may result in generation of noxious gas. Do not longer use the air conditioner until a qualified service person confirms that the leakage has been repaired.
  - Do not attempt to install or repair the air conditioner yourself. Improper workmanship may result in water leakage, electric shocks or fire hazards. Please contact your local dealer or qualified personnel for installation and maintenance work.
  - When the air conditioner is malfunctioning (giving off a burning odour, etc.) turn off power to the unit and contact your local dealer. Continued operation under such circumstances may result in a failure, electric shocks or fire hazards.
  - Be sure to install an earth leakage breaker. Failure to install an earth leakage breaker may result in electric shocks or fire.
- 
  - Be sure to earth the unit. Do not earth the unit to a utility pipe, lightning conductor or telephone earth lead. Imperfect earthing may result in electric shocks.

## **CAUTION**

- 
  - Do not use the air conditioner for purposes other than those for which it is intended. Do not use the air conditioner for cooling precision instruments, food, plants, animals or works of art as this may adversely affect the performance, quality and/or longevity of the object concerned.
  - Do not expose plants or animals directly to airflow from the unit as this may cause adverse effects.
  - Do not place appliances that produce naked flames in places exposed to the air flow from the unit as this may impair combustion of the burner.

## CAUTION



- Do not block air inlets nor outlets. Impaired airflow may result in insufficient performance or trouble.
- Do not sit on the indoor or outdoor unit, put things on the units, or pull the units. Doing so may cause accidents, such as falling or toppling down, thus resulting in injury, product malfunctioning, or product damage.
- Do not place objects that are susceptible to moisture directly beneath the indoor or outdoor units. Under certain conditions, condensation on the main unit or refrigerant pipes, air filter dirt or drain blockage may cause dripping, resulting in fouling or failure of the object concerned.
- After prolonged use, check the unit stand and its mounts for damage. If left in a damaged condition, the unit may fall and cause injury.
- To avoid injury, do not touch the air inlet or aluminium fins of the indoor or outdoor units.
- The appliance is not intended for use by unattended young children or infirm persons. Impairment of bodily functions and harm to health may result.
- Children should be supervised to ensure that they do not play with the unit or its remote controller. Accidental operation by a child may result in impairment of bodily functions and harm health.
- Do not give impact to the indoor and outdoor units, or otherwise product damage may result.
- Do not place flammable items, such as spray cans, within 1 meter of the air outlet. The spray cans may explode as a result of hot air from the indoor or outdoor units.
- Be careful not to let pets urinate on the air conditioner. Urination on the air conditioner may result in electric shocks or fire.



- To avoid oxygen depletion, ensure that the room is adequately ventilated if equipment such as a burner is used together with the air conditioner.
- Before cleaning, be sure to stop unit operation, turn the breaker off or remove the power cord. Otherwise, an electric shock and injury may result.
- Only connect the air conditioner to the specified power supply circuit. Power supplies other than the one specified may result in electric shocks, overheating and fires.
- Arrange the drain hose to ensure smooth drainage. Imperfect drainage may cause wetting of the building, furniture etc.
- Do not place objects in direct proximity of the outdoor unit and do not let leaves and other debris accumulate around the unit. Leaves are a hotbed for small animals which can enter the unit. Once in the unit, such animals can cause malfunctions, smoke or fire when making contact with electrical parts.
- Do not place objects around the indoor unit. Doing so may have an adverse influence on the performance, product quality, and life of the air conditioner.



- To avoid electric shocks, do not operate with wet hands.



- Do not wash the air conditioner with water, as this may result in electric shocks or fire.
- Do not place water containers (flower etc.) above the unit, as this may result in electric shocks or fire hazards.

### Installation site.

- To install the air conditioner in the following types of environments, consult the dealer.
  - Places with an oily ambient or where steam or soot occurs.
  - Salty environment such as coastal areas.
  - Places where sulfide gas occurs such as hot springs.
  - Places where snow may block the outdoor unit.
  - The indoor unit is at least 1 meter away from any television or radio set (unit may cause interference with the picture or sound).
  - The drain from the outdoor unit must be discharged to a place of good drainage.

### Consider nuisance to your neighbours from noises.

- For installation, choose a place as described below.
  - A place solid enough to bear the weight of the unit which does not amplify the operation noise or vibration.
  - A place from where the air discharged from the outdoor unit or the operation noise will not annoy your neighbours.

### Electrical work.

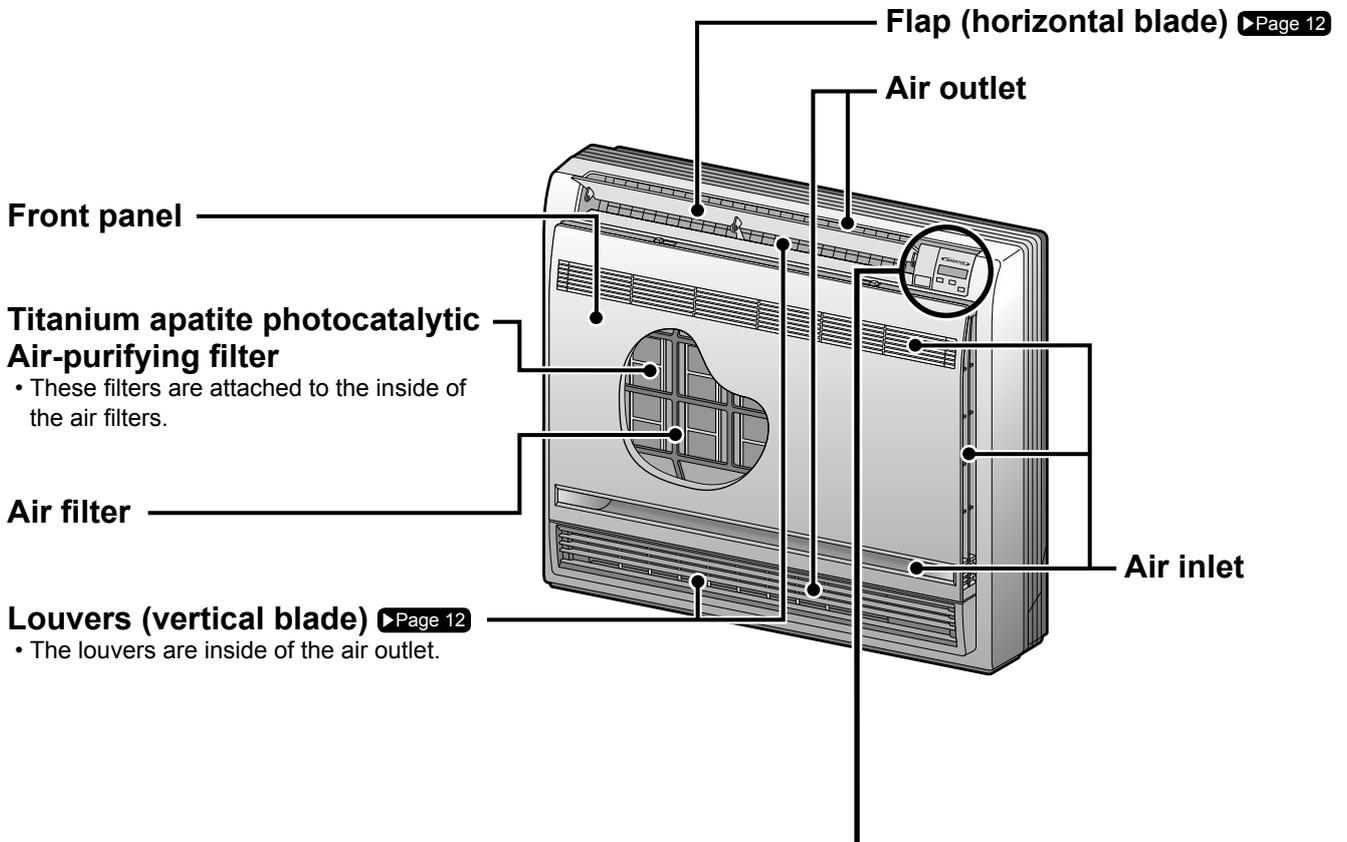
- For power supply, be sure to use a separate power circuit dedicated to the air conditioner.

### System relocation.

- Relocating the air conditioner requires specialized knowledge and skills. Please consult the dealer if relocation is necessary for moving or remodeling.

# Name of Parts

## Indoor Unit



### Control panel

**OPERATION lamp (green)**

**TIMER lamp (yellow)** ▶Page 17

**ON/OFF**

**Signal receiver**

- It receives signals from the remote controller.
- When the unit receives a signal, you will hear a short beep.
  - Operation start ..... beep-beep
  - Settings changed ..... beep
  - Operation stop ..... beeeep

**Indoor unit ON/OFF switch**

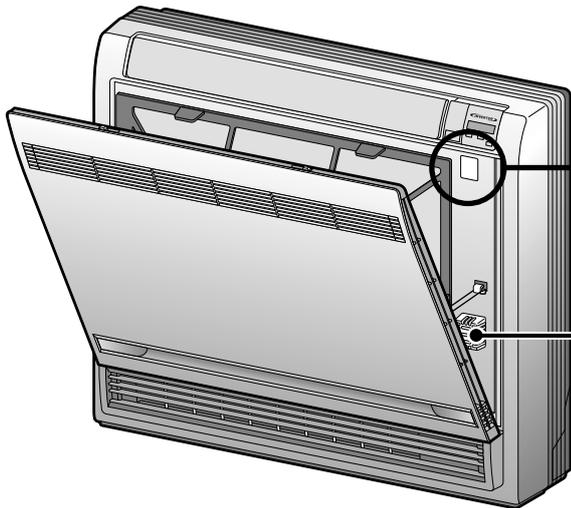
- Push this switch once to start operation. Push once again to stop it.
- The operation mode refers to the following table.

Mode	Temperature setting	Airflow rate
AUTO	25°C	AUTO

- This switch is useful when the remote controller is missing.

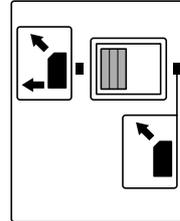
## Open the front panel

- How to open the front panel: ▶Page 25



### Air outlet selection switch

▶Page 13



- This setting blows air from upper outlet only.



- This setting automatically decides a blow pattern depending on mode and conditions.
- This setting is recommended.
- The unit is shipped from the factory with this setting.

### Room temperature sensor

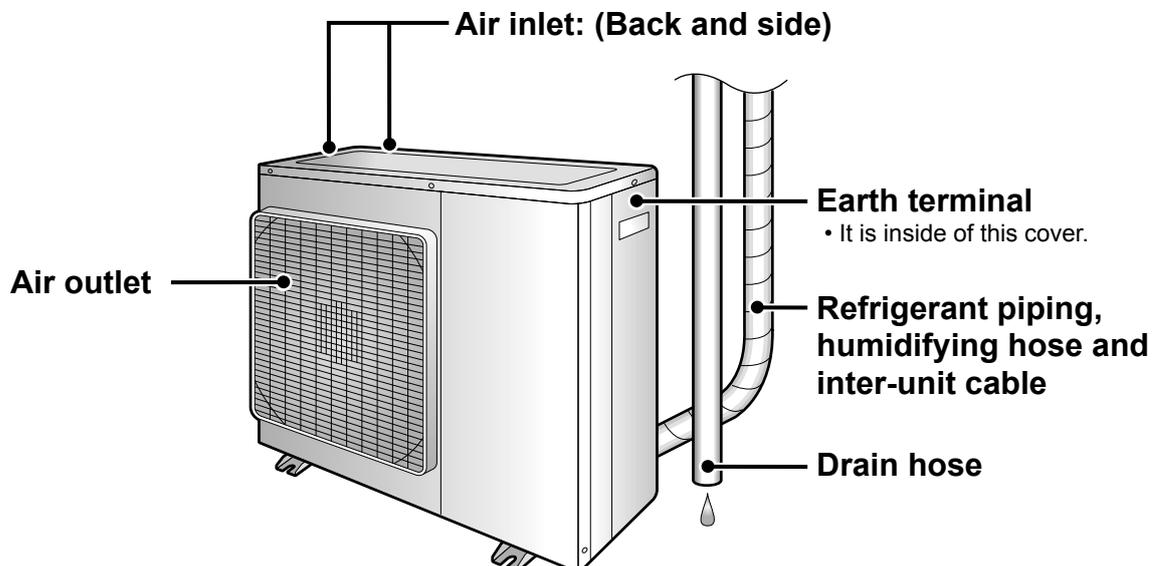
- It senses the air temperature around the unit.

## ⚠ CAUTION

- Before opening the front panel, be sure to stop the operation and turn the breaker OFF.
- Do not touch the metal parts on the inside of the indoor unit, as it may result in injury.

## Outdoor Unit

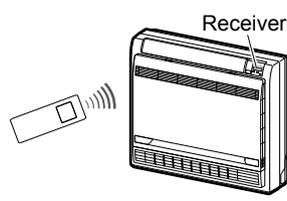
- Appearance of the outdoor unit may differ from some models.



# Name of Parts

## Remote Controller: ARC452A2

### Signal transmitter



Receiver

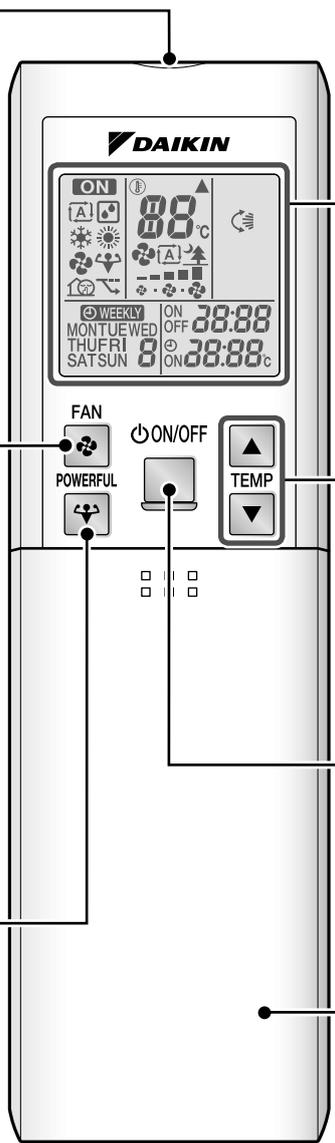
- To use the remote controller, aim the transmitter at the indoor unit. If there is anything to block signals between the unit and the remote controller, such as a curtain, the unit will not operate.
- Do not drop the remote controller. Do not get it wet.
- The maximum distance for communication is approximately 7 meter.

### FAN setting button

- It selects the airflow rate setting. ▶Page 11

### POWERFUL button

- POWERFUL operation ▶Page 14



### Display (LCD)

- It displays the current settings. (In this illustration, each section is shown with its displays ON for the purpose of explanation.)

### TEMPERATURE adjustment buttons

- It changes the temperature setting. ▶Page 10

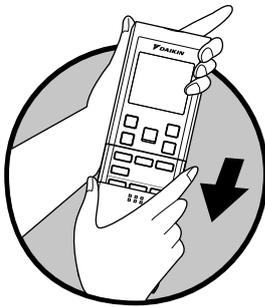
### ON/OFF button

- Press this button once to start operation. Press once again to stop it. ▶Page 10

### Front cover

- Open the front cover. ▶Page 7

## Open the front cover



### MODE selector button

- It selects the operation mode. (AUTO/DRY/COOL/HEAT/FAN) ▶Page 10

### ECONO button

- ECONO operation ▶Page 16

### SWING button

- Adjusting the Airflow Direction ▶Page 12

### QUIET button

- OUTDOOR UNIT QUIET operation ▶Page 15

### OFF TIMER button

▶Page 17

### TIMER CANCEL button

- It cancels the timer setting. ▶Page 17,18
- It cannot be used for the WEEKLY TIMER operation.

### SELECT button

- It changes the ON/OFF TIMER and WEEKLY TIMER settings. ▶Page 17,18,19

WEEKLY : WEEKLY button

◀▶ : PROGRAM button

COPY : COPY button

BACK : BACK button

NEXT : NEXT button

- WEEKLY TIMER operation

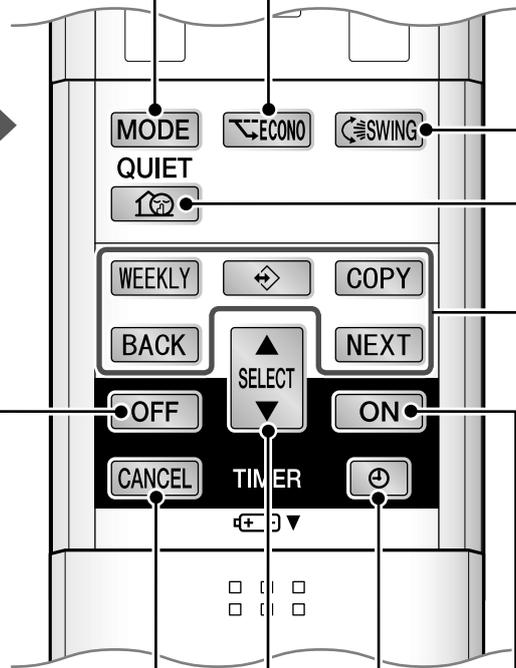
▶Page 19

### ON TIMER button

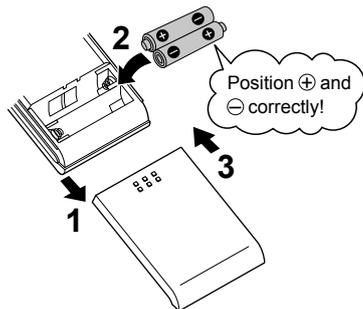
▶Page 18

### CLOCK button

▶Page 9

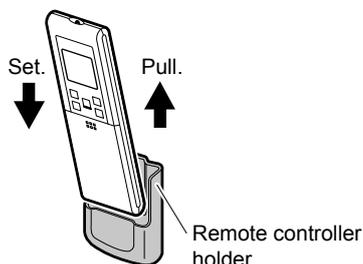


# Preparation before Operation



## ■ To set the batteries

- 1. Slide the front cover to take it off.**
- 2. Set 2 dry batteries AAA.LR03 (alkaline).**
- 3. Set the front cover as before.**



## ■ To fix the remote controller holder on the wall

- 1. Choose a place from where the signals reach the unit.**
- 2. Fix the holder to a wall, a pillar, etc. with the screws supplied with the holder.**
- 3. Place the remote controller in the remote controller holder.**

## ■ Turn the breaker ON

- Turning ON the breaker closes the flap. (This is a normal procedure.)

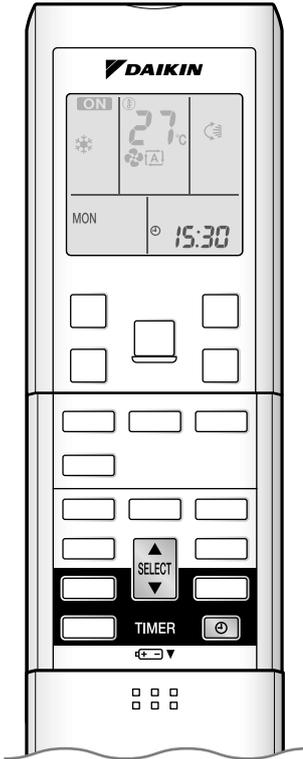
## ATTENTION

### ■ About batteries

- When replacing the batteries, use batteries of the same type, and replace the 2 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. If the remote controller display begins to fade and the degradation of reception performance occurs within a year, however, replace both 2 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.

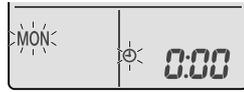
### ■ About remote controller

- 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 electronic-starter-type fluorescent 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.



■ To set the clock

1. Press .



“0:00” is displayed.

“MON” and “

2. Press  to set the current day of the week.

3. Press .



“

4. Press  to set the clock to the present time.

- Holding down  button rapidly increases or decreases the time display.

5. Press .

- Always point the remote controller at the indoor unit when pushing the buttons when setting the indoor unit’s internal clock.



“.” blinks.

**NOTE**

- If the indoor unit’s internal clock is not set to the correct time, the WEEKLY TIMER will not operate punctually.

■ Tips for saving energy

- Be careful not to cool (heat) the room too much.  
Keeping the temperature setting at a moderate level helps save energy.
- Cover windows with a blind or a curtain.  
Blocking sunlight and air from outdoors increases the cooling (heating) effect.
- Clogged air filters cause inefficient operation and waste energy. Clean them once in about every 2 weeks.

Recommended temperature setting
For cooling: 26°C – 28°C
For heating: 20°C – 24°C

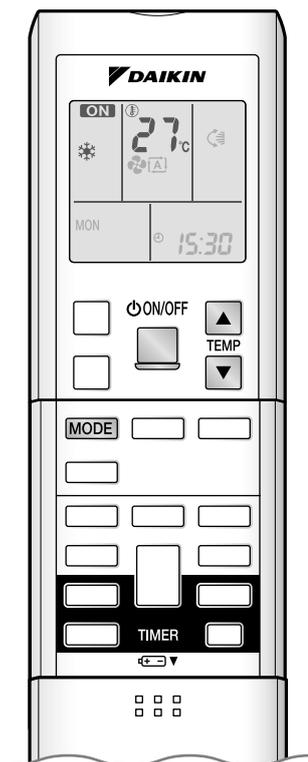
■ Please note

- The air conditioner always consumes 15-35 watts of electricity even while it is not operating.
- If you are not going to use the air conditioner for a long period, for example in spring or autumn, turn the breaker OFF.
- Use the air conditioner in the following conditions.

Mode	Operating conditions	If operation is continued out of this range
COOL	Outdoor temperature : 10 to 46°C Indoor temperature : 18 to 32°C Indoor humidity : 80% max.	<ul style="list-style-type: none"> <li>• A safety device may work to stop the operation.</li> <li>• Condensation may occur on the indoor unit and drip.</li> </ul>
HEAT	Outdoor temperature : -15 to 24°C Indoor temperature : 10 to 30°C	<ul style="list-style-type: none"> <li>• A safety device may work to stop the operation.</li> </ul>
DRY	Outdoor temperature : 10 to 46°C Indoor temperature : 18 to 32°C Indoor humidity : 80% max.	<ul style="list-style-type: none"> <li>• A safety device may work to stop the operation.</li> <li>• Condensation may occur on the indoor unit and drip.</li> </ul>

- Operation outside this humidity or temperature range may cause a safety device to disable the system.

# AUTO · DRY · COOL · HEAT · FAN Operation

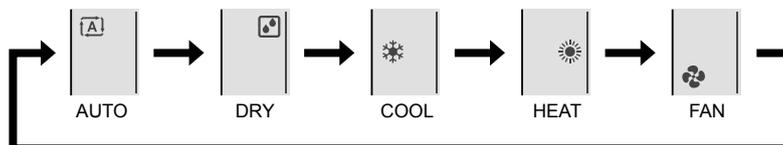


The air conditioner operates with the operation mode of your choice.  
From the next time on, the air conditioner will operate with the same operation mode.

## ■ To start operation

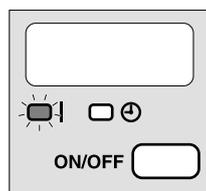
### 1. Press **MODE** and select a operation mode.

- Each pressing of the button advances the mode setting in sequence.



### 2. Press **ON/OFF**.

- “**ON**” is displayed on the LCD.
- The OPERATION lamp lights up.



Control panel

## ■ To stop operation

Press **ON/OFF** again.

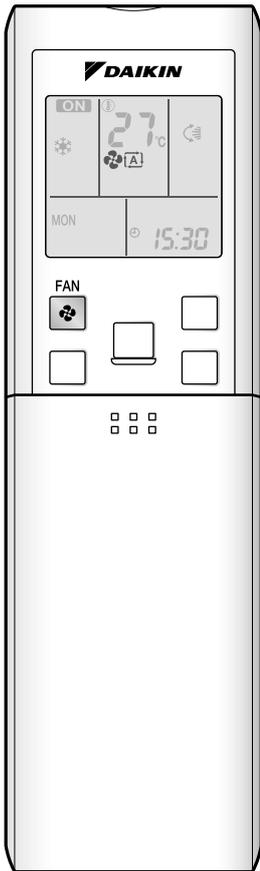
- “**ON**” disappears from the LCD.
- Then OPERATION lamp goes off.

## ■ To change the temperature setting

Press **TEMP** (up) or **TEMP** (down).

- The displayed items on the LCD will change whenever either one of the buttons is pressed.

DRY or FAN mode	COOL mode	HEAT mode	AUTO mode
The temperature setting is not variable.	18~32°C	10~30°C	18~30°C
	Press ▲ to raise the temperature and press ▼ to lower the temperature.		



## ■ To change the airflow rate setting

Press .

DRY mode	AUTO or COOL or HEAT or FAN mode
The airflow rate setting is not variable.	Five levels of airflow rate setting from “  ” to “  ” plus “  ” and “  ” are available. 

- Indoor unit quiet operation.  
When the airflow is set to “”, the noise from the indoor unit will become quieter. Use this when making the noise quieter. The unit might lose capacity when the airflow rate is set to a weak level.
- Each pressing of the button advances the airflow rate setting in sequence.



## NOTE

### ■ Note on HEAT operation

- Since this air conditioner heats the room by taking heat from outdoor air to indoors, the heating capacity becomes smaller in lower outdoor temperatures. If the heating effect is insufficient, it is recommended to use another heating appliance in combination with the air conditioner.
- The heat pump system heats the room by circulating hot air around all parts of the room. After the start of heating operation, it takes some time before the room gets warmer.
- In heating operation, frost may occur on the outdoor unit and lower the heating capacity. In that case, the system switches into defrosting operation to take away the frost.
- During defrosting operation, hot air does not flow out of indoor unit.

### ■ Note on COOL operation

- This air conditioner cools the room by blowing the hot air in the room outside, so if the outside temperature is high, the performance of the air conditioner drops.

### ■ Note on DRY operation

- The computer chip works to rid the room of humidity while maintaining the temperature as much as possible. It automatically controls temperature and airflow rate, so manual adjustment of these functions is unavailable.

### ■ Note on AUTO operation

- In AUTO operation, the system selects a temperature setting and an appropriate operation mode (COOL or HEAT) based on the room temperature at the start of the operation.
- The system automatically reselects setting at a regular interval to bring the room temperature to user-setting level.
- If you do not like AUTO operation, manually change the set temperature.

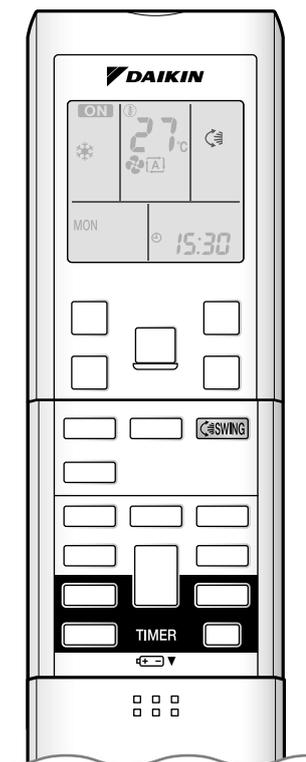
### ■ Note on FAN operation

- This mode is valid for fan only.

### ■ Note on airflow rate setting

- At smaller airflow rates, the cooling (heating) effect is also smaller.

# Adjusting the Airflow Direction



You can adjust the airflow direction to increase your comfort.

## Adjusting the upper and lower airflow direction

### ■ To adjust the flap (horizontal blade)

#### 1. Press SWING.

- “” is displayed on the LCD and the flap will begin to swing.

#### 2. When the flap has reached the desired position, press SWING once more.

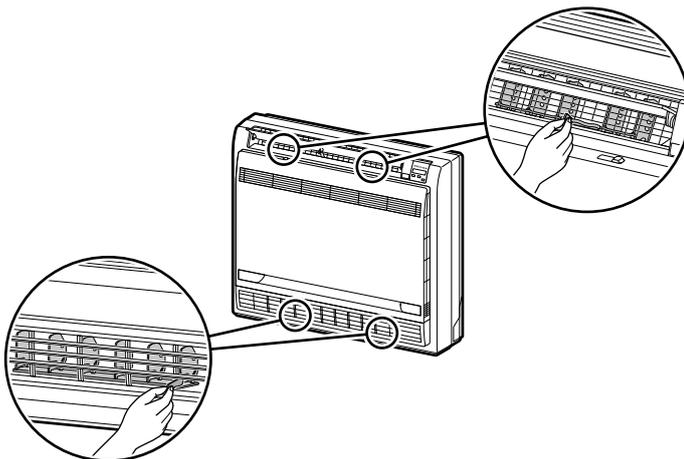
- The flap will stop moving.
- “” disappears from the LCD.

## Adjusting the right and left airflow direction

### ■ To adjust the louvers (vertical blades)

Hold the knob and move the louvers.

(You will find a knob on the left-side and the right-side blades.)



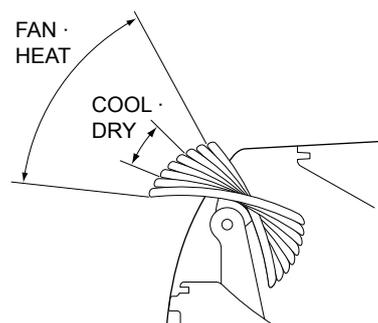
## CAUTION

- Do not try to adjust the flap by hand.  
If the flap is adjusted by hand, the mechanism may not operate properly or condensation may drip from the air outlet. If the flap is adjusted without using the remote controller, turn off the unit once, and use the remote controller to restart the unit.
- Be careful when adjusting the louvers. Inside the air outlet, a fan is rotating at a high speed.
- While the outdoor unit is not in operation because the indoor temperature becomes higher (or lower) than the set temperature, the flap will come to a stop.

## NOTE

### ■ Notes on flap and louvers angle

- Unless “SWING” is selected, you should set the flap at a near-horizontal angle in FAN or HEAT mode and at a upward position in COOL or DRY mode to obtain the best performance.

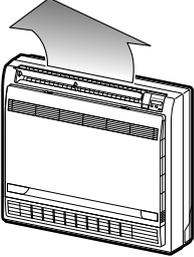
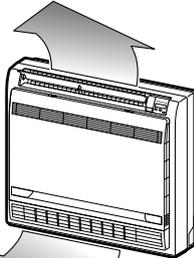
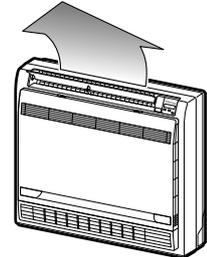


## ■ Air outlet selection

- Make air outlet selection according to what suits you. ▶Page 5

### When setting the air outlet selection switch to .

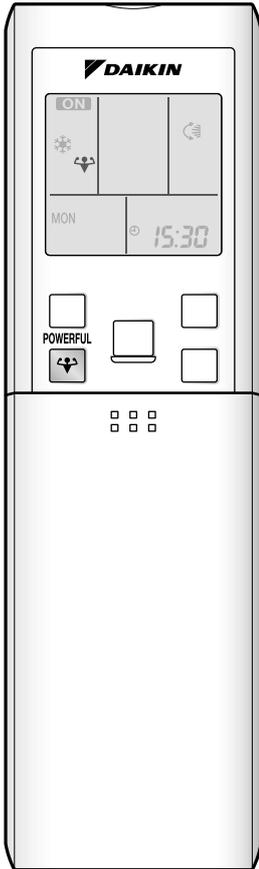
- Air conditioner automatically decides the appropriate blowing pattern depending on the operating mode/situation.

Operating mode	Situation	Blowing pattern
COOL mode (  )	<ul style="list-style-type: none"> <li>• When the room has become fully cool, or when 1 hour has passed since turning on the air conditioner.</li> </ul>	 <ul style="list-style-type: none"> <li>• So that air does not come into direct contact with people, air is blown upper air outlet, room temperature is equalized.</li> </ul>
	<ul style="list-style-type: none"> <li>• At start of operation or other times when the room is not fully cooled.</li> </ul>	 <ul style="list-style-type: none"> <li>• Air is blown from the upper and lower air outlets for high speed cooling during COOL mode, and for filling the room with warm air during FAN or HEAT mode.</li> </ul>
FAN mode (  )	<ul style="list-style-type: none"> <li>• Changes with the outlet selection of the air conditioner.</li> </ul>	
HEAT mode (  )	<ul style="list-style-type: none"> <li>• At times other than below. (Normal time.)</li> </ul>	 <ul style="list-style-type: none"> <li>• So that air does not come into direct contact with people. Air is blown upper air outlet.</li> </ul>
	<ul style="list-style-type: none"> <li>• At start or when outlet air temperature is low.</li> </ul>	
DRY mode (  )	<ul style="list-style-type: none"> <li>• Whenever in dry mode.</li> </ul>	<ul style="list-style-type: none"> <li>• Air blows only from the upper outlet so that the user will not be exposed to cold air.</li> </ul>
AUTO mode (  )	<ul style="list-style-type: none"> <li>• Operates in the actual operation mode of the air conditioner according to the descriptions in this table. (COOL and HEAT)</li> </ul>	

### When setting the air outlet selection switch to .

- Regardless of the operating mode or situation, air blows from the upper air outlet.
- Use this switch when you do not want air coming out of the lower air outlet. (While sleeping etc.)

# POWERFUL Operation



POWERFUL operation quickly maximizes the cooling (heating) effect in any operation mode. You can get the maximum capacity.

## ■ To start POWERFUL operation

Press  during operation.

- POWERFUL operation ends in 20 minutes. Then the system automatically operates again with the previous settings which were used before POWERFUL operation.
- “” is displayed on the LCD.
- When using POWERFUL operation, there are some functions which are not available.

## ■ To cancel POWERFUL operation

Press  again.

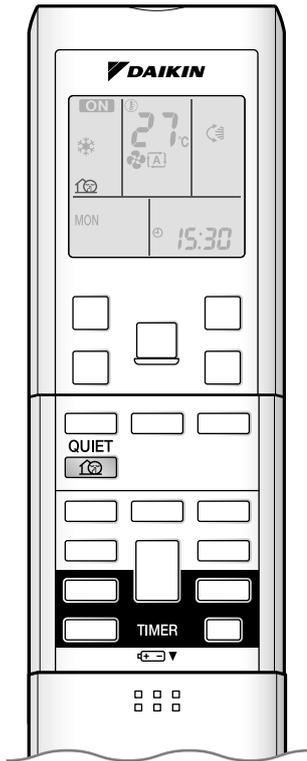
- “” disappears from the LCD.

## NOTE

### ■ Notes on POWERFUL operation

- POWERFUL Operation cannot be used together with ECONO or QUIET Operation. Priority is given to the function of whichever button is pressed last.
- POWERFUL Operation can only be set when the unit is running. Pressing the operation stop button causes the settings to be canceled, and the “” disappears from the LCD.
- POWERFUL Operation will not increase the capacity of the air conditioner if the air conditioner is already in operation with its maximum capacity demonstrated.
- **In COOL and HEAT mode**  
To maximize the cooling (heating) effect, the capacity of outdoor unit must be increased and the airflow rate be fixed to the maximum setting. The temperature and airflow settings are not variable.
- **In DRY mode**  
The temperature setting is lowered by 2.5°C and the airflow rate is slightly increased.
- **In FAN mode**  
The airflow rate is fixed to the maximum setting.
- **In AUTO mode**  
To maximize the cooling (heating) effect, the capacity of outdoor unit must be increased and the airflow rate be fixed to the maximum setting.

# OUTDOOR UNIT QUIET Operation



OUTDOOR UNIT QUIET operation lowers the noise level of the outdoor unit by changing the frequency and fan speed on the outdoor unit. This function is convenient during night.

## ■ To start OUTDOOR UNIT QUIET operation

Press .

- “” is displayed on the LCD.

## ■ To cancel OUTDOOR UNIT QUIET operation

Press  again.

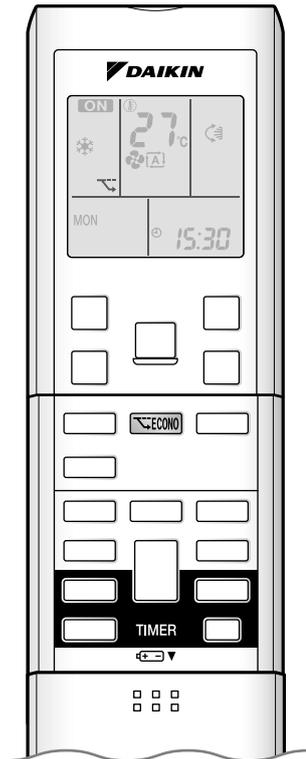
- “” disappears from the LCD.

## NOTE

### ■ Note on OUTDOOR UNIT QUIET operation

- This function is available in COOL, HEAT, and AUTO modes.  
(This is not available in FAN and DRY mode.)
- POWERFUL operation and OUTDOOR UNIT QUIET operation cannot be used at the same time.  
Priority is given to the function of whichever button is pressed last.
- If operation is stopped using the remote controller or the main unit ON/OFF switch when using OUTDOOR UNIT QUIET operation, “” will remain on the remote controller display.
- OUTDOOR UNIT QUIET Operation will drop neither the frequency nor fan speed if the frequency and fan speed have been already dropped low enough.

# ECONO Operation



ECONO operation is a function which enables efficient operation by limiting the maximum power consumption value.

This function is useful for cases in which attention should be paid to ensure a circuit breaker will not trip when the product runs alongside other appliances.

## ■ To start ECONO operation

Press  during operation.

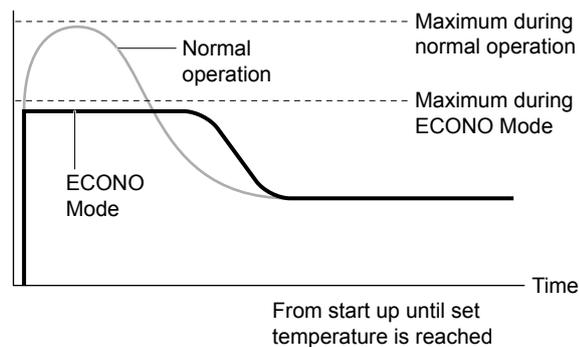
- “” is displayed on the LCD.

## ■ To cancel ECONO operation

Press  again.

- “” disappears from the LCD.

Running current and power consumption



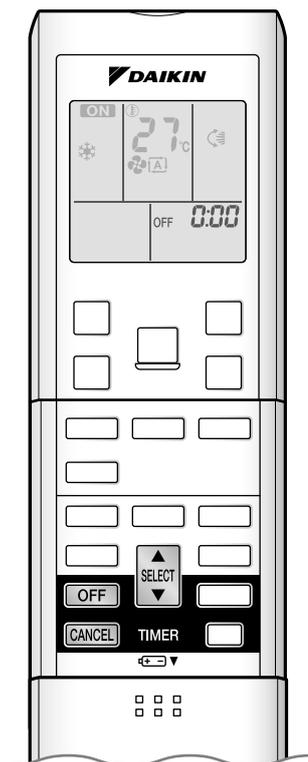
- This diagram is a representation for illustrative purposes only.

- \* The maximum running current and power consumption of the air conditioner in ECONO mode vary with the connecting outdoor unit.

## NOTE

- ECONO Operation can only be set when the unit is running. Pressing the operation stop button causes the settings to be canceled, and the “” disappears from the LCD.
- ECONO operation is a function which enables efficient operation by limiting the power consumption of the outdoor unit (operating frequency).
- ECONO operation functions in AUTO, COOL, DRY, and HEAT modes.
- POWERFUL and ECONO operation cannot be used at the same time. Priority is given to the function of whichever button is pressed last.
- Power consumption may not drop even if ECONO operation is used if the level of power consumption is already low.

# TIMER Operation



Timer functions are useful for automatically switching the air conditioner on or off at night or in the morning. You can also use OFF TIMER and ON TIMER in combination.

## ■ To use OFF TIMER operation

- Check that the clock is correct.  
If not, set the clock to the present time. ▶Page 9

### 1. Press **OFF**.



"0:00" is displayed.  
"OFF" blinks.

- "⌚" and day of the week disappear from the LCD.

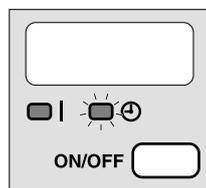
### 2. Press **SELECT** until the time setting reaches the point you like.



- Every pressing of either button increases or decreases the time setting by 10 minutes.  
Holding down either button changes the setting rapidly.

### 3. Press **OFF** again.

- "OFF" and setting time are displayed on the LCD.
- The TIMER lamp lights up.



Control panel

## ■ To cancel OFF TIMER Operation

### Press **CANCEL**.

- "OFF" and setting time disappear from the LCD.
- "⌚" and day of the week are displayed on the LCD.
- The TIMER lamp goes off.

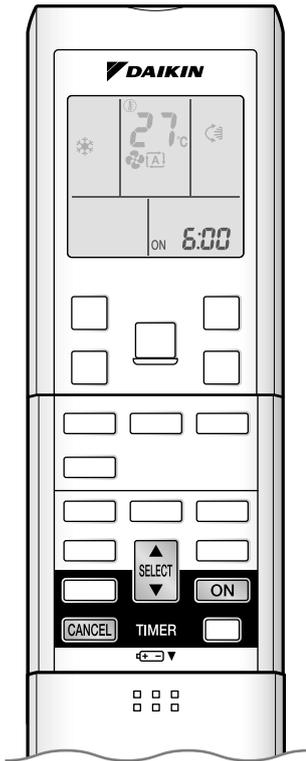
## NOTE

- When TIMER is set, the present time is not displayed.
- Once you set ON, OFF TIMER, the time setting is kept in the memory. (The memory is canceled when remote controller batteries are replaced.)
- When operating the unit via the ON/OFF Timer, the actual length of operation may vary from the time entered by the user. (Maximum approximately 10 minutes)

## ■ NIGHT SET MODE

- When the OFF TIMER is set, the air conditioner automatically adjusts the temperature setting (0.5°C up in COOL, 2.0°C down in HEAT) to prevent excessive cooling (heating) for your pleasant sleep.

# TIMER Operation



## ■ To use ON TIMER operation

- Check that the clock is correct.  
If not, set the clock to the present time. ▶Page 9

### 1. Press **ON**.



“6:00” is displayed.

“ ON ” blinks.

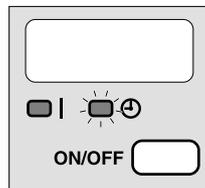
- “⌚” and day of the week disappear from the LCD.

### 2. Press **SELECT** until the time setting reaches the point you like.

- Every pressing of either button increases or decreases the time setting by 10 minutes.  
Holding down either button changes the setting rapidly.

### 3. Press **ON** again.

- “ON” and setting time are displayed on the LCD.
- The TIMER lamp lights up.



Control panel

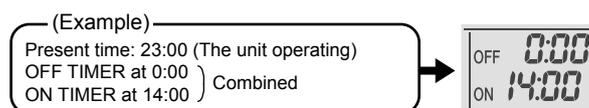
## ■ To cancel ON TIMER Operation

Press **CANCEL**.

- “ON” and setting time disappear from the LCD.
- “⌚” and day of the week are displayed on the LCD.
- The TIMER lamp goes off.

## ■ To combine ON TIMER and OFF TIMER

- A sample setting for combining the 2 timers is shown below.



## ATTENTION

### ■ In the following cases, set the timer again.

- After a breaker has turned OFF.
- After a power failure.
- After replacing batteries in the remote controller.

# WEEKLY TIMER Operation

Up to 4 timer settings can be saved for each day of the week. It is convenient if the WEEKLY TIMER is set according to the family's life style.

## ■ Using in these cases of WEEKLY TIMER

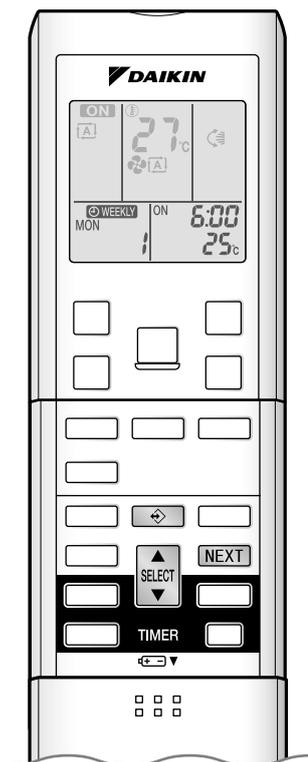
An example of WEEKLY TIMER settings is shown below.

**Example:** The same timer settings are made for the week from Monday through Friday while different timer settings are made for the weekend.

<p><b>[Monday]</b></p>	<p>Make timer settings up to programs 1-4. <a href="#">▶Page 20</a></p>
<p><b>[Tuesday] to [Friday]</b></p>	<p>Use the copy mode to make settings for Tuesday to Friday, because these settings are the same as those for Monday. <a href="#">▶Page 22</a></p>
<p><b>[Saturday]</b></p>	<p>No timer settings</p>
<p><b>[Sunday]</b></p>	<p>Make timer settings up to programs 1-4. <a href="#">▶Page 20</a></p>

- Up to 4 reservations per day and 28 reservations per week can be set in the WEEKLY TIMER. The effective use of the copy mode ensures ease of making reservations.
- The use of ON-ON-ON-ON settings, for example, makes it possible to schedule operating mode and set temperature changes. Furthermore, by using OFF-OFF-OFF-OFF settings, only the turn-OFF time of each day can be set. This will turn OFF the air conditioner automatically if the user forgets to turn it OFF.

# WEEKLY TIMER Operation

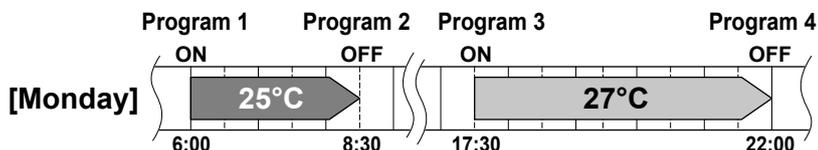


## ■ To use WEEKLY TIMER operation

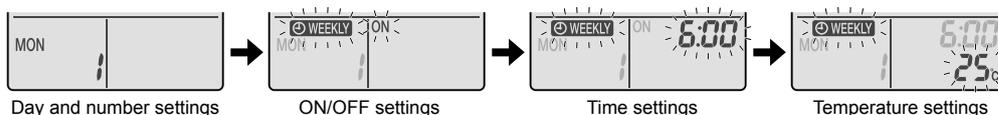
### Setting mode

- Make sure the day of the week and time are set. If not, set the day of the week and time.

▶ Page 9



### Setting Displays



## 1. Press .

- The day of the week and the reservation number of the current day will be displayed.
- 1 to 4 settings can be made per day.

## 2. Press to select the desired day of the week and reservation number.

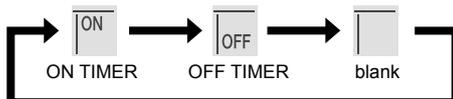
- Pressing  changes the reservation number and the day of the week.

## 3. Press .

- The day of the week and reservation number will be set.
- “WEEKLY” and “ON” blink.

## 4. Press to select the desired mode.

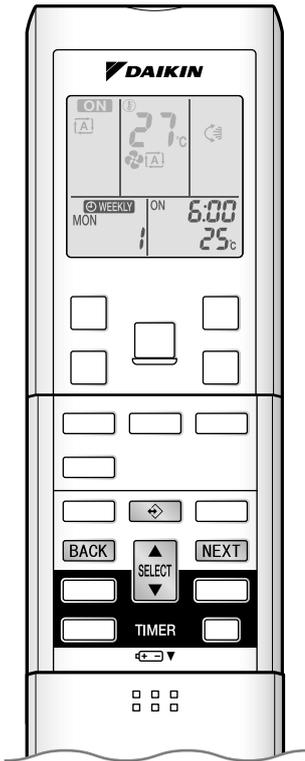
- Pressing  changes “ON” or “OFF” setting in sequence.



- In case the reservation has already been set, selecting “blank” deletes the reservation.
- Go to STEP 9 if “blank” is selected.

## 5. Press .

- The ON/OFF TIMER mode will be set.
- “WEEKLY” and the time blink.



## 6. Press to select the desired time.

- The time can be set between 0:00 and 23:50 in 10 minute intervals.
- To return to the mode setting, press **BACK**.
- Go to STEP 9 when setting the OFF TIMER.

## 7. Press .

- The time will be set.
- “**WEEKLY**” and the temperature blink.

## 8. Press to select the desired temperature.

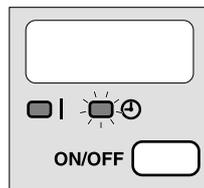
- The temperature can be set between 10°C and 32°C.  
Cooling: The unit operates at 18°C even if it is set at 10 to 17°C.  
Heating: The unit operates at 30°C even if it is set at 31 to 32°C.
- To return to the time setting, press **BACK**.
- The set temperature is only displayed when the mode setting is on.

## 9. Press .

- The temperature will be set and go to the next reservation setting.
- To continue further settings, repeat the procedure from STEP 4.

## 10. Press to complete the setting.

- Be sure to direct the remote controller toward the indoor unit and check for a receiving tone and flashing the operation lamp.
- “**WEEKLY**” is displayed on the LCD and WEEKLY TIMER operation is activated.
- The TIMER lamp lights up.



Control panel

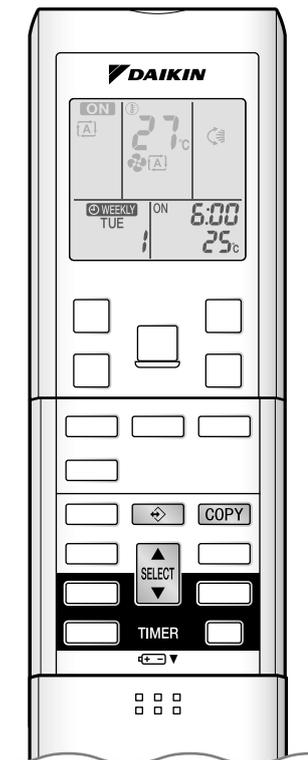
- A reservation made once can be easily copied and the same settings used for another day of the week. Refer to **Copy mode**. ▶Page 22

## NOTE

### ■ Notes on WEEKLY TIMER operation

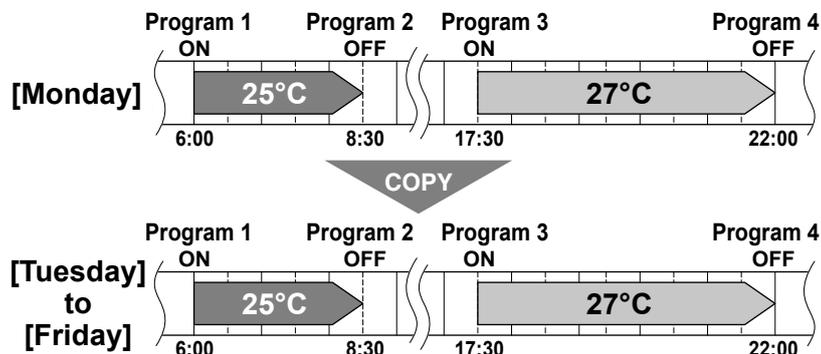
- Do not forget to set the clock on the remote controller first. ▶Page 9
- The day of the week, ON/OFF TIMER mode, time and set temperature (only for ON TIMER mode) can be set with WEEKLY TIMER. Other settings for ON TIMER are based on the settings just before the operation.
- Both WEEKLY TIMER and ON/OFF TIMER operation cannot be used at the same time. The ON/OFF TIMER operation has priority if it is set while WEEKLY TIMER is still active. The WEEKLY TIMER will go into standby state, and “**WEEKLY**” will disappear from the LCD. When ON/OFF TIMER is up, the WEEKLY TIMER will automatically become active.
- Only the time and set temperature set with the weekly timer are sent with the . Set the weekly timer only after setting the operation mode, the fan strength, and the fan direction ahead of time.
- Shutting the breaker off, power failure, and other similar events will render operation of the indoor unit's internal clock inaccurate. Reset the clock. ▶Page 9
- The **BACK** can be used only for the mode, time and temperature settings. It cannot be used to go back to the reservation number.

# WEEKLY TIMER Operation

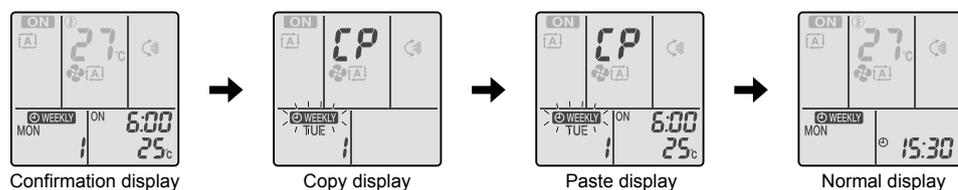


## Copy mode

- A reservation made once can be copied another day of the week. The whole reservation of the selected day of the week will be copied.



## Setting Displays



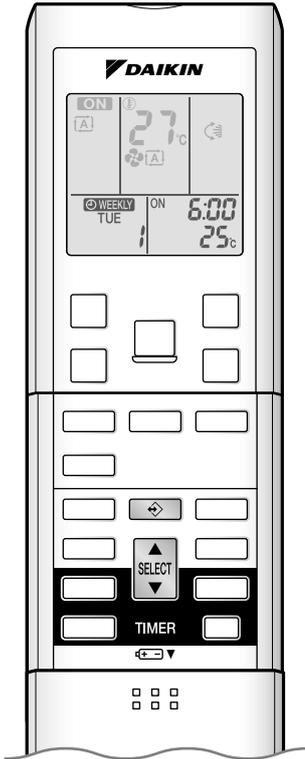
1. Press .
2. Press to confirm the day of the week to be copied.
3. Press to activate copy mode.
  - The whole reservation of the selected day of the week will be copied.
4. Press to select the destination day of the week.
5. Press .
  - The reservation will be copied to the selected day of the week. The whole reservation of the selected day of the week will be copied.
  - To continue copying the settings to other days of the week, repeat STEP 4 and STEP 5.
6. Press to complete the setting.
  - "WEEKLY" is displayed on the LCD and WEEKLY TIMER operation is activated.

## NOTE

### ■ Notes on copy mode

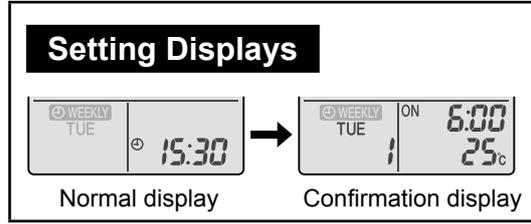
- The entire reservation of the source day of the week is copied in the copy mode.

In the case of making a reservation change for any day of the week individually after copying the content of weekly reservations, press and change the settings in the steps of **Setting mode** . ▶Page 20



## ■ Confirming a reservation

- The reservation can be confirmed.



### 1. Press .

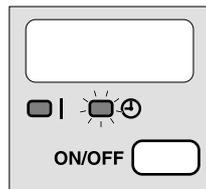
- The day of the week and the reservation number of the current day will be displayed.

### 2. Press to select the day of the week and the reservation number to be confirmed.

- Pressing  displays the reservation details.
- To change the confirmed reserved settings, select the reservation number and press . The mode is switched to setting mode. Go to **Setting mode** STEP 4. 

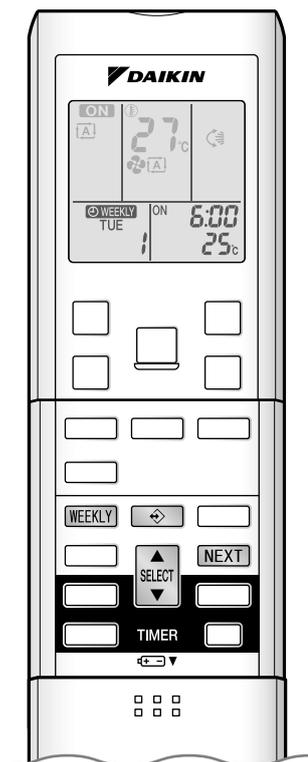
### 3. Press to exit confirming mode.

- “ WEEKLY” is displayed on the LCD and WEEKLY TIMER operation is activated.
- The TIMER lamp lights up.



Control panel

# WEEKLY TIMER Operation



## ■ To deactivate WEEKLY TIMER operation

Press **WEEKLY** while “**WEEKLY**” is displayed on the LCD.

- The “**WEEKLY**” will disappear from the LCD.
- The TIMER lamp goes off.
- To reactivate the WEEKLY TIMER operation, press **WEEKLY** again.
- If a reservation deactivated with **WEEKLY** is activated once again, the last reservation mode will be used.

## ■ To delete reservations

### The individual reservation

**1.** Press .

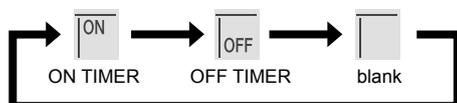
- The day of the week and the reservation number will be displayed.

**2.** Press  to select the day of the week and the reservation number to be deleted.

**3.** Press **NEXT**.

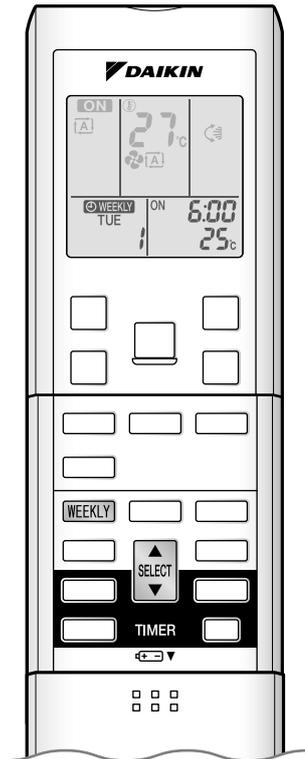
- “**WEEKLY**” and “ON” or “OFF” blink.
- Pressing  changes ON/OFF TIMER mode.
- The reservation will be no setting with selecting “blank”.

**4.** Press  and select “blank”.



**5.** Press **NEXT**.

- The selected reservation is be deleted.



### The reservations for each day of the week

- This function can be used for deleting reservations for each day of the week.

**1. Press  to select the day of the week to be deleted.**

**2. Hold  for 5 seconds.**

- The reservation of the selected day of the week will be deleted.

### All reservations

**Hold  for 5 seconds.**

- Be sure to direct the remote controller toward the indoor unit and check for a receiving tone.
- This operation is not effective while WEEKLY TIMER is being set.
- All reservations will be deleted.

# Care and Cleaning



## CAUTION

Before cleaning, be sure to stop the operation and turn the breaker OFF.

## Units

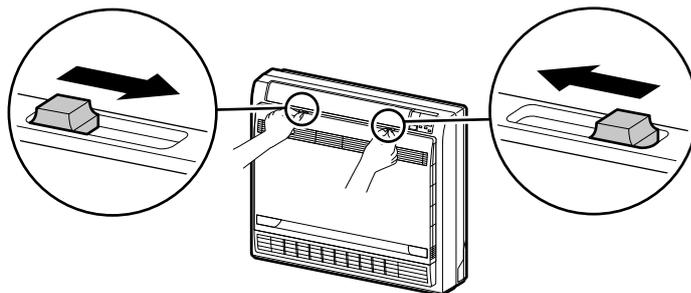
### ■ Indoor unit, Outdoor unit and Remote controller

Wipe them with dry soft cloth.

## Front panel

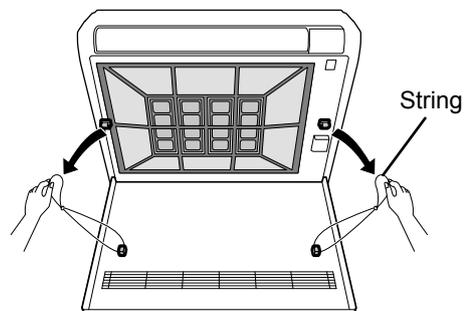
### 1. Open the front panel.

- Slide the 2 stoppers on the left and right sides inward until they click.



### 2. Remove the front panel.

- Remove the 2 strings.
- Allowing the front panel to fall forward will enable you to remove it.



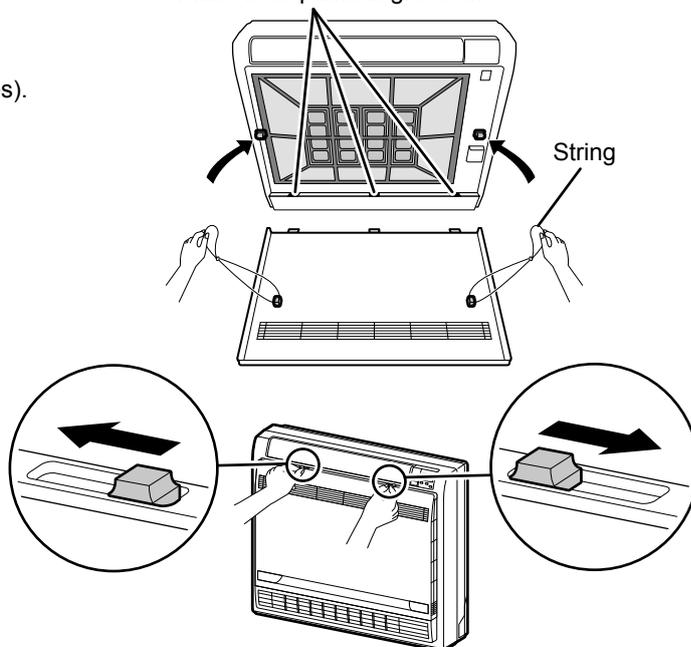
### 3. Clean the front panel.

- Wipe it with a soft cloth soaked in water.
- Only neutral detergent may be used.
- In case of washing the front panel with water, wipe it with dry soft cloth, dry it up in the shade after washing.

### 4. Attach the front panel.

- Insert the front panel into the grooves of the unit (3 places).
- Attach the string to the right, inner-side of the front grille.
- Close the panel slowly.
- Slide the 2 stoppers on the left and right sides outward until they click.

Place front panel in grooves.



## CAUTION

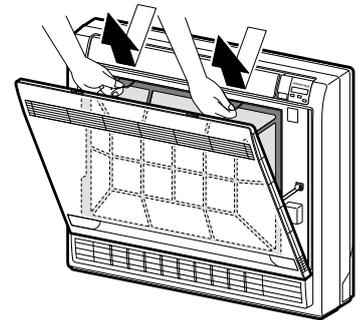
- Do not touch the metal parts of the indoor unit. If you touch those parts, this may cause an injury.
- When removing or attaching the front panel, use a robust and stable stool and watch your steps carefully.
- When removing or attaching the front panel, support the panel securely with hand to prevent it from falling.
- For cleaning, do not use hot water above 40°C, benzene, gasoline, thinner, nor other volatile oils, polishing compound, scrubbing brushes, nor other hand stuff.
- After cleaning, make sure that the front panel is securely fixed.

## Filters

**1. Open the front panel.** ▶Page 25

**2. Remove the air filter.**

- Press the claws on the right and left of the air filter down slightly, then pull upward.

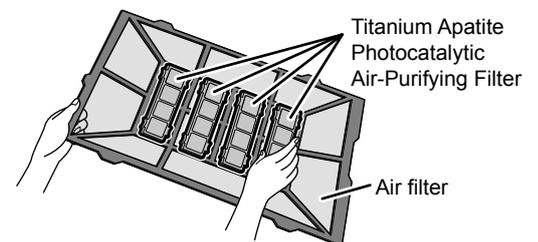


**3. Take off the Titanium Apatite Photocatalytic Air-Purifying Filter.**

- Hold the tabs of the frame, and remove the claws in 4 places.

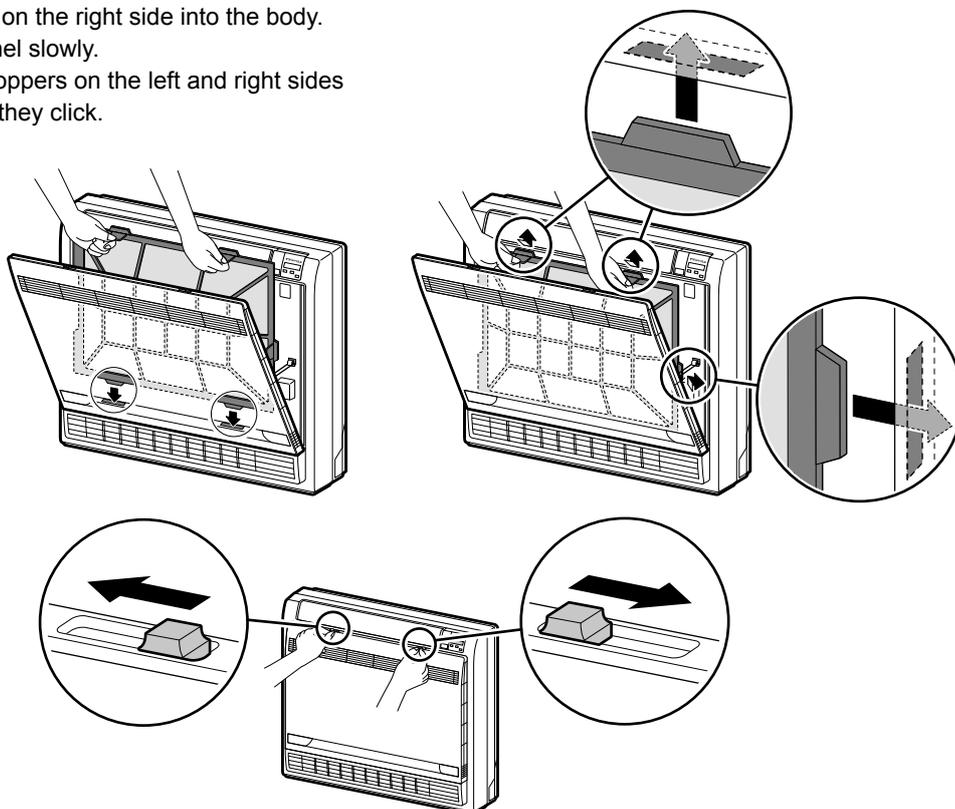
**4. Clean or replace each filter.**

See figure.



**5. Set the air filter and Titanium Apatite Photocatalytic Air-Purifying Filter as they were and close the front panel.**

- Operation without air filters may result in troubles as dust will accumulate inside the indoor unit.
- Insert the 2 tabs on the lower side of air filter into the body.
- Then, insert the 2 tabs on the upper side into the body.
- Insert the tab on the right side into the body.
- Close the panel slowly.
- Slide the 2 stoppers on the left and right sides outward until they click.



## ⚠ CAUTION

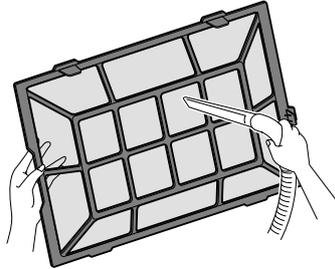
- Do not touch the aluminum fins by bare hand at the time of dismantling or mounting the filter.

# Care and Cleaning

## Air Filter

**Wash the air filters with water or clean them with vacuum cleaner.**

- If the dust does not come off easily, wash them with neutral detergent thinned with lukewarm water, then dry them up in the shade.
- It is recommended to clean the air filters every 2 weeks.



## CAUTION

- When cleaning the air filter, be careful not to damage or break the net of the filter.

## Titanium Apatite Photocatalytic Air-Purifying Filter

The Titanium Apatite Photocatalytic Air-Purifying Filter can be renewed by washing it with water once every 6 months. We recommend replacing it once every 3 years. (Material : paper/polypropylene)

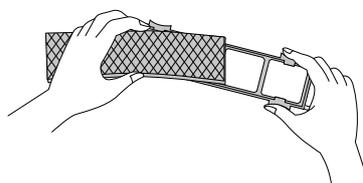
### [ Maintenance ]

- 1. Vacuum dusts, and soak in warm water or water for about 10 to 15 minutes if dirt is heavy.**
- 2. Do not remove filter from frame when washing with water.**
- 3. After washing, shake off remaining water and dry in the shade.**
- 4. Since the material is made out of paper, do not wring out the filter when removing water from it.**

### [ Replacement ]

- 1. Remove the tabs on the filter frame and replace with a new filter.**

- Dispose of the old filter as flammable waste.



## NOTE

- Operation with dirty filters:
  - 1) cannot deodorize the air.
  - 2) cannot clean the air.
  - 3) results in poor heating or cooling.
  - 4) may cause odour.
- To order Titanium Apatite Photocatalytic Air-Purifying Filter contact to the service shop there you bought the air conditioner.
- Dispose of old filters as flammable waste.

Item	Part No.
Titanium Apatite Photocatalytic Air-Purifying Filter (without frame) 2 sets	KAF968A42

## ATTENTION

- Do not throw away the filter frame. Reuse the filter frame when replacing the Titanium Apatite Photocatalytic Air-Purifying Filter.

## CHECK

- Check that the base, stand and other fittings of the outdoor unit are not decayed or corroded.
- Check that nothing blocks the air inlets and the outlets of the indoor unit and the outdoor unit.
- Check that the drain comes smoothly out of the drain hose during COOL or DRY operation.
  - If no drain water is seen, water may be leaking from the indoor unit. Stop operation and consult the service shop if this is the case.

### Before a long idle period.

## 1. Operate the “FAN only” for several hours on a fine day to dry out the inside.

- Press **MODE** and select “” operation.
- Press  and start operation.

## 2. After operation stops, turn off the breaker for the room air conditioner.

## 3. Clean the air filters and set them again.

## 4. Take out batteries from the remote controller.

# Trouble Shooting

## These cases are not troubles.

The following cases are not air conditioner troubles but have some reasons. You may just continue using it.

Case	Explanation
<b>Operation does not start soon.</b> <ul style="list-style-type: none"> <li>When ON/OFF button was pressed soon after operation was stopped.</li> <li>When the mode was reselected.</li> </ul>	<ul style="list-style-type: none"> <li>This is to protect the air conditioner. You should wait for about 3 minutes.</li> </ul>
<b>Hot air does not flow out soon after the start of heating operation.</b>	<ul style="list-style-type: none"> <li>The air conditioner is warming up. You should wait for 1 to 4 minutes. (The system is designed to start discharging air only after it has reached a certain temperature.)</li> </ul>
<b>The heating operation stops suddenly and a flowing sound is heard.</b>	<ul style="list-style-type: none"> <li>The system is taking away the frost on the outdoor unit. You should wait for about 4 to 12 minutes.</li> </ul>
<b>The outdoor unit emits water or steam.</b>	<ul style="list-style-type: none"> <li><b>In HEAT mode</b> <ul style="list-style-type: none"> <li>The frost on the outdoor unit melts into water or steam when the air conditioner is in defrost operation.</li> </ul> </li> <li><b>In COOL or DRY mode</b> <ul style="list-style-type: none"> <li>Moisture in the air condenses into water on the cool surface of outdoor unit piping and drips.</li> </ul> </li> </ul>
<b>Mist comes out of the indoor unit.</b>	<ul style="list-style-type: none"> <li>This happens when the air in the room is cooled into mist by the cold airflow during cooling operation.</li> <li>This is because the air in the room is cooled by the heat exchanger and becomes mist during defrost operation.</li> </ul>
<b>The indoor unit gives out odour.</b>	<ul style="list-style-type: none"> <li>This happens when smells of the room, furniture, or cigarettes are absorbed into the unit and discharged with the airflow. (If this happens, we recommend you to have the indoor unit washed by a technician. Consult the service shop where you bought the air conditioner.)</li> </ul>
<b>The outdoor fan rotates while the air conditioner is not in operation.</b>	<ul style="list-style-type: none"> <li><b>After operation is stopped:</b> <ul style="list-style-type: none"> <li>The outdoor fan continues rotating for another 60 seconds for system protection.</li> </ul> </li> <li><b>While the air conditioner is not in operation:</b> <ul style="list-style-type: none"> <li>When the outdoor temperature is very high, the outdoor fan starts rotating for system protection.</li> </ul> </li> </ul>
<b>The operation stopped suddenly. (OPERATION lamp is on.)</b>	<ul style="list-style-type: none"> <li>For system protection, the air conditioner may stop operating on a sudden large voltage fluctuation. It automatically resumes operation in about 3 minutes.</li> </ul>
<b>No remote controller signals are displayed.</b> <b>The remote controller sensitivity is low.</b> <b>The display is low in contrast or blacked out.</b> <b>The display runs out of control.</b>	<ul style="list-style-type: none"> <li>The batteries are dying and the remote controller is malfunctioning. Replace all the batteries with new size batteries, AAA.LR03 (alkaline). For details, refer to "To set the batteries" of this manual. <a href="#">▶Page 8</a></li> </ul>
<b>The ON/OFF TIMER does not operate according to the settings.</b>	<ul style="list-style-type: none"> <li>Check if the ON/OFF TIMER and the WEEKLY TIMER are set to the same time. Change or disable the settings in the WEEKLY TIMER. <a href="#">▶Page 20</a></li> </ul>

## Check again.

Please check again before calling a repair person.

Case	Check
<b>The air conditioner does not operate. (OPERATION lamp is off.)</b>	<ul style="list-style-type: none"><li>• Hasn't a breaker turned OFF or a fuse blown?</li><li>• Isn't it a power failure?</li><li>• Are batteries set in the remote controller?</li><li>• Is the timer setting correct?</li></ul>
<b>Cooling (Heating) effect is poor.</b>	<ul style="list-style-type: none"><li>• Are the air filters clean?</li><li>• Is there anything to block the air inlet or the outlet of the indoor and the outdoor units?</li><li>• Is the temperature setting appropriate?</li><li>• Are the windows and doors closed?</li><li>• Are the airflow rate and the air direction set appropriately?</li></ul>
<b>Operation stops suddenly. (OPERATION lamp flashes.)</b>	<ul style="list-style-type: none"><li>• Are the air filters clean?</li><li>• Is there anything to block the air inlet or the outlet of the indoor and the outdoor units? Clean the air filters or take all obstacles away and turn the breaker OFF. Then turn it ON again and try operating the air conditioner with the remote controller. If the lamp still flashes, call the service shop where you bought the air conditioner.</li></ul>
<b>An abnormal functioning happens during operation.</b>	<ul style="list-style-type: none"><li>• The air conditioner may malfunction with lightning or radio waves. Turn the breaker OFF, turn it ON again and try operating the air conditioner with the remote controller.</li></ul>
<b>The flap does not start swinging immediately.</b>	<ul style="list-style-type: none"><li>• The air conditioner is adjusting the flap position. The flap will start moving soon.</li></ul>

# Trouble Shooting

**Call the service shop immediately.**

## **WARNING**

- **When an abnormality (such as a burning smell) occurs, stop operation and turn the breaker OFF.**

Continued operation in an abnormal condition may result in troubles, electric shocks or fire.  
Consult the service shop where you bought the air conditioner.

- **Do not attempt to repair or modify the air conditioner by yourself.**

Incorrect work may result in electric shocks or fire.  
Consult the service shop where you bought the air conditioner.

**If one of the following symptoms takes place, call the service shop immediately.**

- The power cord is abnormally hot or damaged.
- An abnormal sound is heard during operation.
- The safety breaker, a fuse, or the earth leakage breaker cuts off the operation frequently.
- A switch or a button often fails to work properly.
- There is a burning smell.
- Water leaks from the indoor unit.

Turn the breaker OFF and call the service shop.



- **After a power failure**

The air conditioner automatically resumes operation in about 3 minutes. You should just wait for a while.

- **Lightning**

If lightning may strike the neighbouring area, stop operation and turn the breaker OFF for system protection.

**We recommend periodical maintenance.**

In certain operating conditions, the inside of the air conditioner may get foul after several seasons of use, resulting in poor performance. It is recommended to have periodical maintenance by a specialist aside from regular cleaning by the user. For specialist maintenance, contact the service shop where you bought the air conditioner. The maintenance cost must be born by the user.

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Two-dimensional bar code is a code  
for manufacturing.

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