



DAIKIN ROOM AIR CONDITIONER

OPERATION MANUAL

INVERTER

MODELS

- FTXG20LV1BW
- FTXG25LV1BW
- FTXG35LV1BW
- FTXG50LV1BW

- FTXG20LV1BS
- FTXG25LV1BS
- FTXG35LV1BS
- FTXG50LV1BS



Feature

For your comfort and energy saving



INTELLIGENT EYE

The INTELLIGENT EYE sensor detects the human movement in a room. If no one is in the room for more than 20 minutes, the operation automatically changes to energy saving operation.

▶Page 15



WEEKLY TIMER

Up to 4 timer settings can be saved for each day of the week according to your family's life style. The WEEKLY TIMER allows you to set on/off time and the desired temperature.

▶Page 23

Other functions



COMFORT AIRFLOW

The airflow direction will be in upward while in COOL operation, in downward while in HEAT operation. This function will prevent cold or warm air from directly blowing on your body. ▶Page 15



OUTDOOR UNIT QUIET









OUTDOOR UNIT QUIET operation lowers the noise level of the outdoor unit. This function is useful when you need to consider the noise for your neighbourhood. ▶Page 19

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The English text is the original instruction. Other languages are translations of the original instructions.



ECONO

This function enables efficient operation by limiting the maximum power consumption. It is useful when using the air conditioner and other electrical devices simultaneously. ▶Page 19

Safety Precautions

- Keep this manual where the user can easily find it.
- Read the precautions in this manual carefully before operating the unit.
- This appliance is intended to be used by expert or trained users in shops, in light industry and on farms, or for commercial use by lay persons.
- Sound pressure level is less than 70 dB (A).
- 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.

WARNING

Failure to follow these instructions properly may result in personal injury or loss of life.

CAUTION

Failure to observe these instructions properly may result in property damage or personal injury, which may be serious depending on the circumstances.



Never attempt.



Be sure to follow the instructions.



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 gases (e.g. flammable or corrosive) 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 damage or personal injury 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.
- Do not use a refrigerant other than the one indicated on the outdoor unit (R410A) when installing, moving or repairing. Using other refrigerants may cause trouble or damage to the unit, and personal injury.
- To avoid electric shocks, do not operate with wet hands.



- 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 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 circuit breaker. Failure to install the earth leakage circuit 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 airflow from the unit as this may impair combustion of the burner.
- Do not block air inlets nor outlets. Impaired airflow may result in insufficient performance or trouble.

CAUTION



- Do not sit on the outdoor unit, put things on the unit, or pull the unit. 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 they are 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.
- Avoid impacts to the indoor and outdoor units, or otherwise product damage may result.
- Do not place flammable items, such as spray cans, within 1m 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.
- Do not wash the air conditioner with water, as this may result in electric shocks or fire.
- Do not place water containers (vases etc.) above the unit, as this may result in electric shocks or fire hazards.



- 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 off the circuit breaker 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.
- This appliance is not intended to be used by persons with reduced physical, sensory or mental capabilities, or with lack of operation knowledge, unless they have been given supervision or instruction concerning the appliance use by person responsible for their safety.
Keep out of children's reach to ensure that they do not play with the appliance.

P003

Installation site.

- To install the air conditioner in the following types of environments, consult the dealer.
 - Places with an oily environment 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.
- Be sure to follow the instructions below.
 - The indoor unit is at least 1m 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.

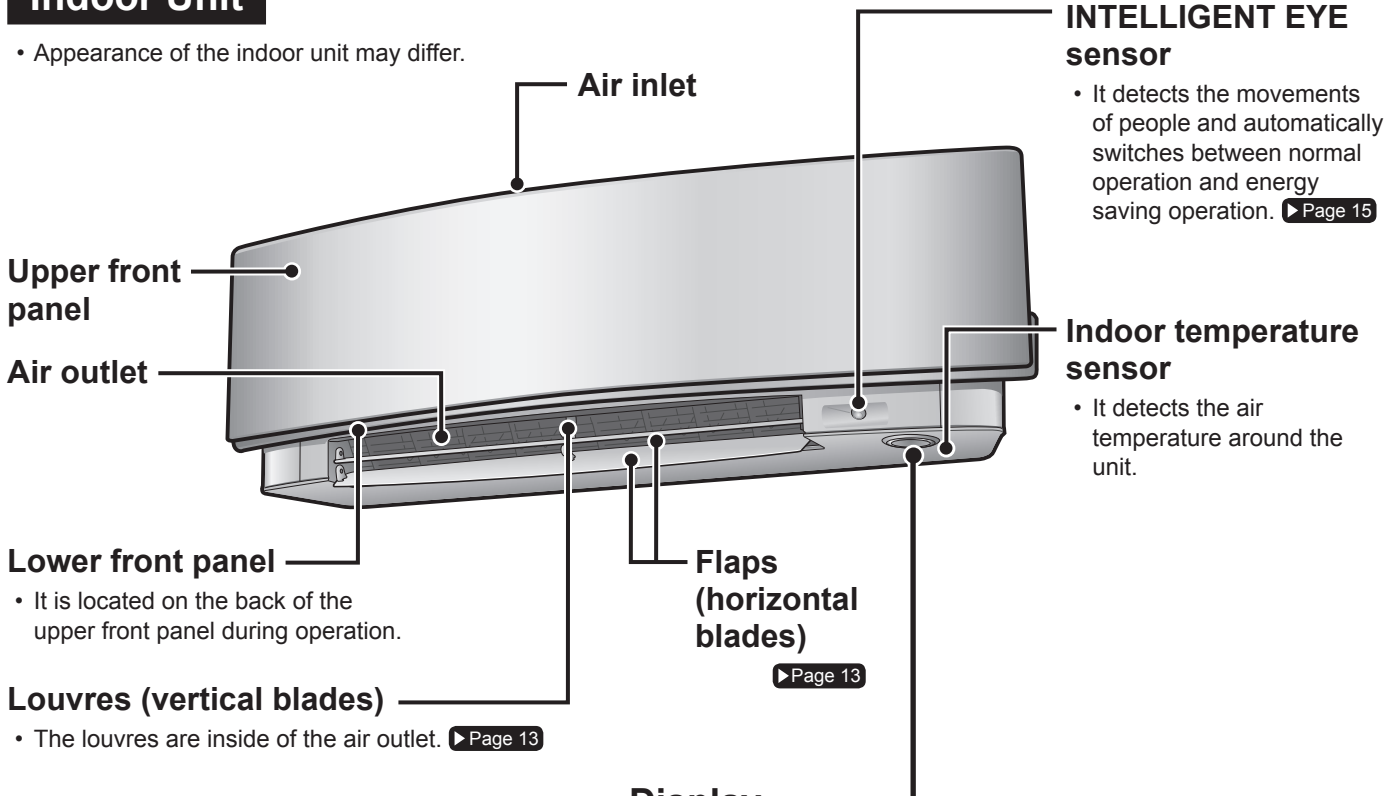
System relocation.

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

Names of Parts

Indoor Unit

• Appearance of the indoor unit may differ.



Display

Multi-monitor lamp and TIMER lamp

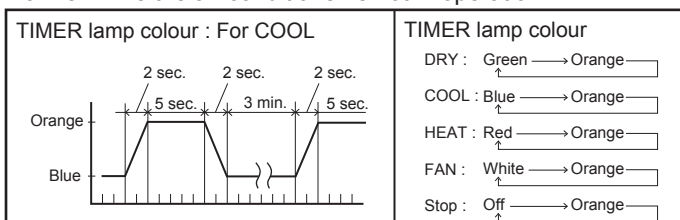
Multi-monitor lamp

• The lamp colour changes according to the operation.

Operation	Multi-monitor lamp
AUTO	Red/Blue
DRY	Green
COOL	Blue
HEAT	Red
FAN	White
TIMER	Orange

TIMER lamp

• When operation by timer has been set, the multi-monitor lamp periodically changes to orange. After lighting orange for about 5 seconds, it returns to the colour of the operation mode. The multi-monitor lamp will turn orange on and off in cyclic manner while the air conditioner is not in operation.



INTELLIGENT EYE lamp (green) ▶ Page 16

Signal receiver and Indoor unit ON/OFF switch

Signal receiver

- It receives signals from the remote controller.
- When the unit receives a signal, you will hear a beep sound.

Case	Sound type
Operation start	beep-beep
Setting changed	beep
Operation stop	long beep

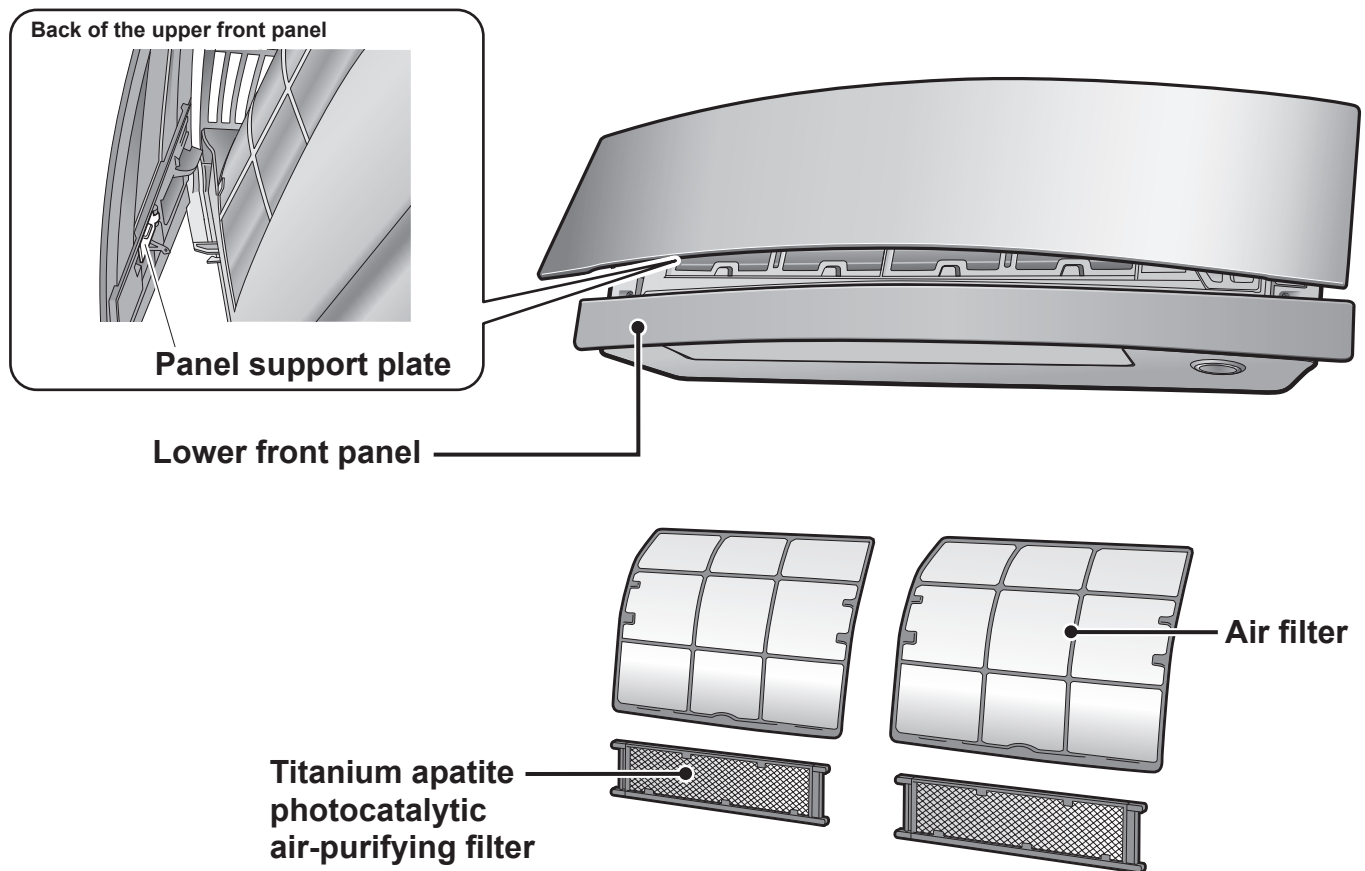
Indoor unit ON/OFF switch

- Press this switch once to start operation. Press once again to stop it.
- For the operation mode setting, refer to the following table.

Mode	Temperature setting	Airflow rate
AUTO	25°C	AUTO

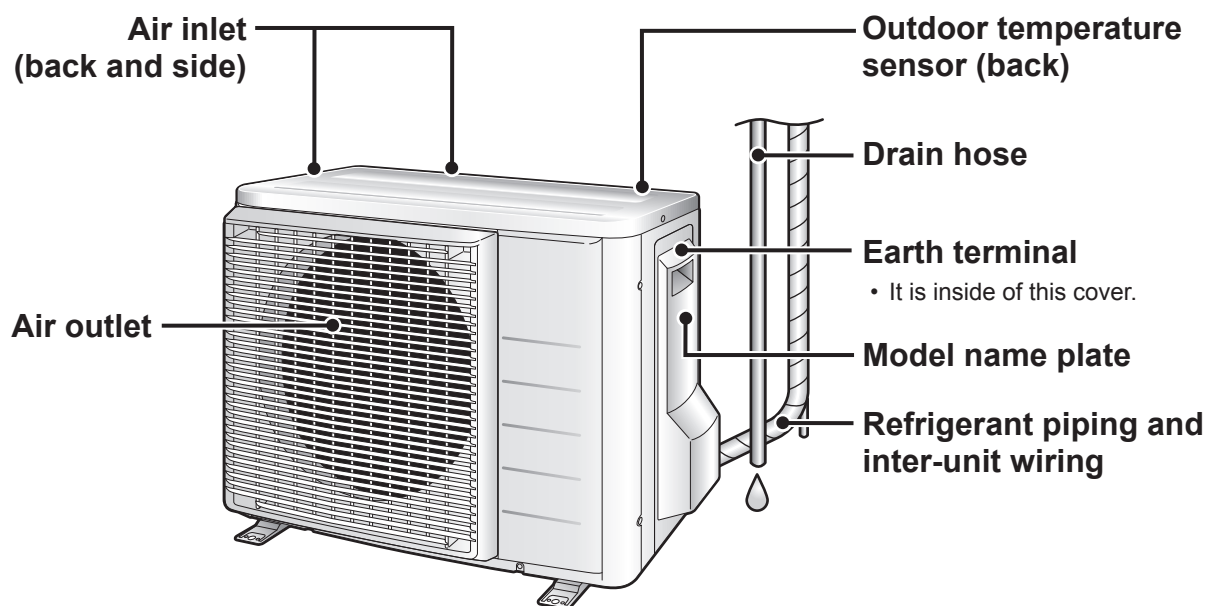
- This switch can be used when the remote controller is missing.

■ Open the upper front panel



Outdoor Unit

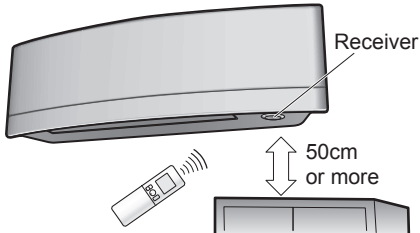
- Appearance of the outdoor unit may differ from some models.



Names of Parts

Remote Controller

Signal transmitter



- 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 approx. 6m. Make sure that there are no obstacles within 50cm under the signal receiver. Such obstacles, if any, may have an adverse influence on the reception performance of the receiver and the reception distance may be shortened.

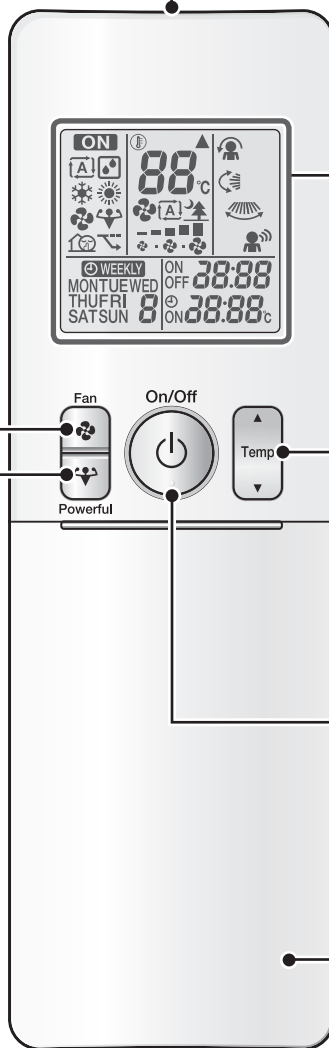
FAN setting button

- It selects the airflow rate setting.

▶ Page 14

POWERFUL button

- POWERFUL operation. ▶ Page 18



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 12

ON/OFF button

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

▶ Page 11

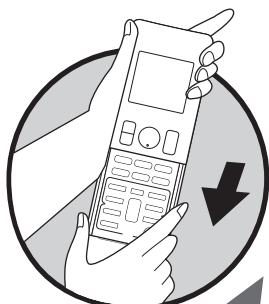
Front cover

- Open the front cover. ▶ Page 8

Model

ARC466A9

■ Open the front cover



MODE selector button

- It selects the operation mode. (AUTO/DRY/COOL/HEAT/FAN) ▶Page 11

ECONO/QUIET button

- ECONO/OUTDOOR UNIT QUIET operation. ▶Page 19

SWING button

- Adjusting the airflow direction. ▶Page 13

Weekly

◀ : WEEKLY button

⬆ : PROGRAM button

Copy

▶ : COPY button

Back

◀ : BACK button

Next

▶ : NEXT button

- WEEKLY TIMER operation. ▶Page 23

ON TIMER button

▶Page 22

CLOCK button ▶Page 10

Lamp brightness setting button

▶Page 9

COMFORT/SENSOR button

- COMFORT AIRFLOW and INTELLIGENT EYE operation. ▶Page 15

OFF TIMER button (NIGHT SET mode)

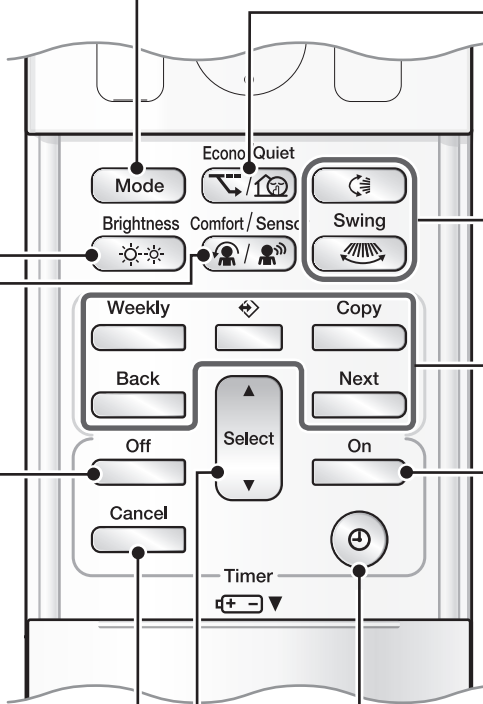
▶Page 21

TIMER CANCEL button

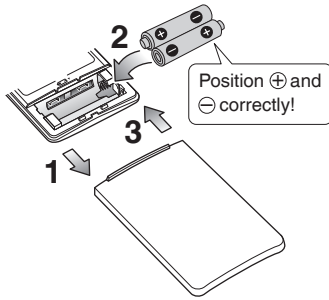
- It cancels the timer setting. ▶Page 21,22
- It cannot be used for the WEEKLY TIMER operation.

SELECT button

- It changes the ON/OFF TIMER and WEEKLY TIMER settings. ▶Page 21,22,23



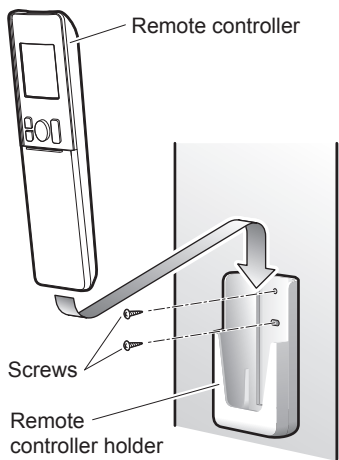
Preparation before Operation



■ 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.

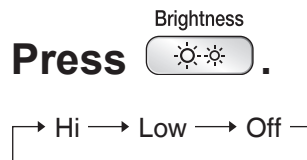
■ To fix the remote controller holder on the wall



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

■ To set the luminance of the display

- The luminance of the indoor unit display can be set.



NOTE

■ Notes on batteries

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

■ Notes on 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.



■ Turn on the circuit breaker

- After the power is turned on, the flaps of the indoor unit open and close once to set the reference position.

■ To set the clock

1. Press .



- "0:00" is displayed on the LCD.
- "MON" and "⏻" blink.

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

3. Press .



- "⏻" blinks.

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

- Holding down ▲ or ▼ rapidly increases or decreases the time display.

5. Press .

- Point the remote controller at the indoor unit when pressing the buttons.



- "⏻" blinks.

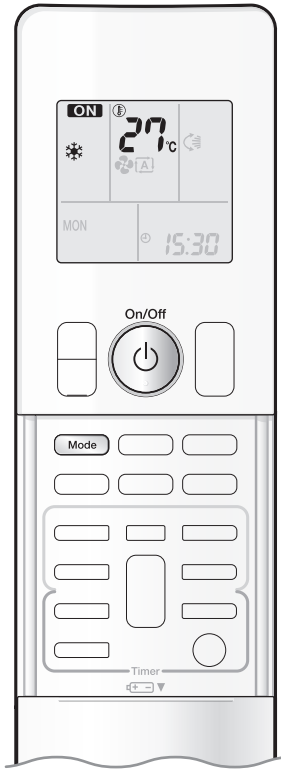
NOTE

■ Note on setting the clock

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



AUTO · DRY · COOL · HEAT · FAN Operation

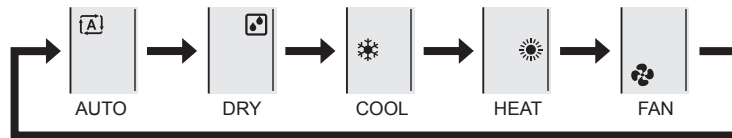


The air conditioner operates with the operation mode of your choice. From the next time on, the air conditioner will operate with the same operation mode.

■ To start operation

1. Press and select an operation mode.

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



2. Press .

- “**ON**” is displayed on the LCD.
- The multi-monitor lamp lights up. The colour of the lamp varies depending on the operation mode.

Operation	Multi-monitor lamp
AUTO	Red/Blue
DRY	Green
COOL	Blue
HEAT	Red
FAN	White



Display

■ To stop operation

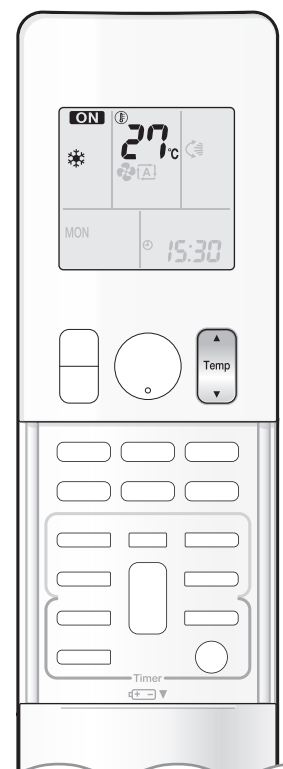
Press again.

- “**ON**” disappears from the LCD.
- The multi-monitor lamp goes off.

NOTE

MODE	Notes on each operation mode
HEAT	<ul style="list-style-type: none"> • 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 HEAT operation, it takes some time before the room gets warmer. • In HEAT 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.
COOL	<ul style="list-style-type: none"> • This air conditioner cools the room by releasing the heat in the room outside. Therefore, the cooling performance of the air conditioner may be degraded if the outdoor temperature is high
DRY	<ul style="list-style-type: none"> • 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.
AUTO	<ul style="list-style-type: none"> • In AUTO operation, the system selects an appropriate operation mode (COOL or HEAT) based on the room and outside temperatures and starts the operation. • The system automatically reselects setting at a regular interval to bring the indoor temperature to user-setting level.
FAN	<ul style="list-style-type: none"> • This mode is valid for fan only.

■ To change the temperature setting



Press  .

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

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

■ Operating conditions

■ Recommended temperature setting

- For cooling: 26-28°C
- For heating: 20-24°C

■ 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.

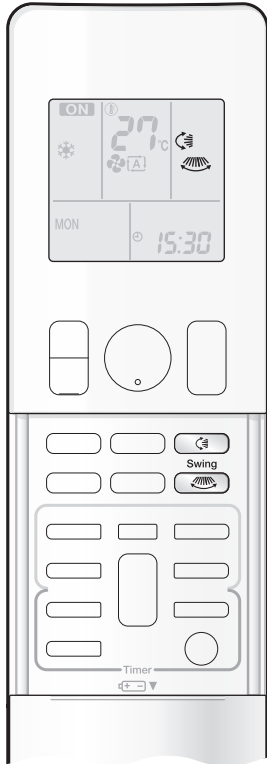
■ Notes on the operating conditions

- The air conditioner always consumes a small amount 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 off the circuit breaker.
- Use the air conditioner in the following conditions.
- Operation outside the humidity or temperature range described in the table may cause a safety device to disable the system.

MODE	Operating conditions	If operation is continued out of this range
COOL	Outdoor temperature : <2/3/4/5MXS> -10-46°C <RXG> -10-46°C Indoor temperature : 18-32°C Indoor humidity : 80% max.	<ul style="list-style-type: none"> • A safety device may work to stop the operation. (In multi system, it may work to stop the operation of the outdoor unit only.) • Condensation may occur on the indoor unit and drip.
HEAT	Outdoor temperature : <2MXS> -10-24°C <3/4/5MXS> -15-24°C <RXG> -15-24°C Indoor temperature : 10-30°C	<ul style="list-style-type: none"> • A safety device may work to stop the operation.
DRY	Outdoor temperature : <2/3/4/5MXS> -10-46°C <RXG> -10-46°C Indoor temperature : 18-32°C Indoor humidity : 80% max.	<ul style="list-style-type: none"> • A safety device may work to stop the operation. • Condensation may occur on the indoor unit and drip.



Adjusting the Airflow Direction and Rate




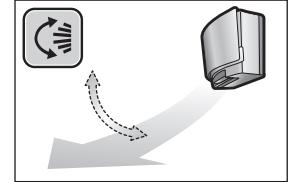
You can adjust the airflow direction to increase your comfort.

■ To start auto swing

Up and down airflow direction


Press .

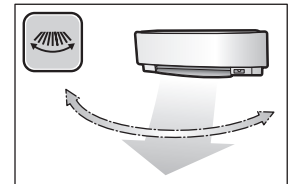
- “” is displayed on the LCD.
- The flaps (horizontal blades) will begin to swing.



Right and left airflow direction





Press .

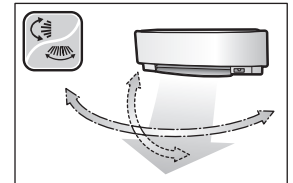
- “” is displayed on the LCD.
- The louvres (vertical blades) will begin to swing.



The 3-D airflow direction

Press  and .



- “” and “” are displayed on the LCD.
- The flaps and louvres move in turn.
- To cancel 3-D airflow, press either  or  again. The flaps or louvres will stop moving.

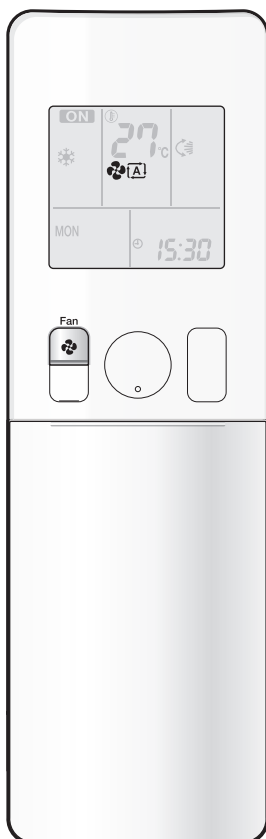


■ To set the flaps or louvres at desired position

- This function is effective while flaps or louvres are in auto swing mode.


Press  and  when the flaps or louvres have reached the desired position.

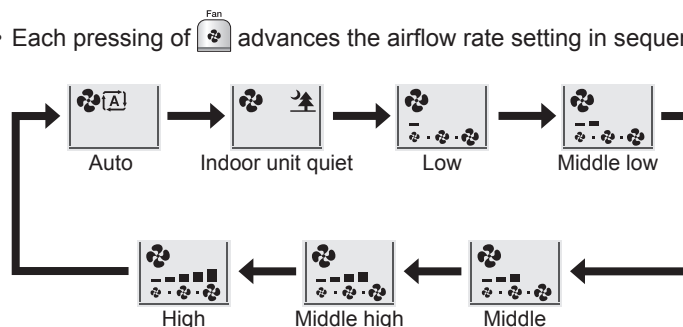
- In the 3-D airflow, the flaps and louvres move in turn.
- “” or “” disappears from the LCD.




■ To adjust the airflow rate setting

Press .

- Each pressing of  advances the airflow rate setting in sequence.

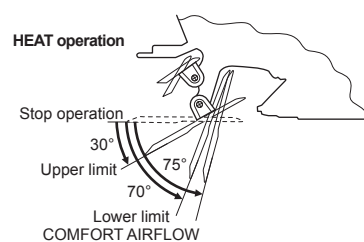
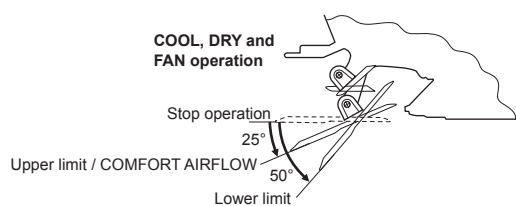


- When the airflow is set to “”, indoor unit quiet operation will start and the noise from the unit will become quieter.
- In indoor unit quiet operation, the airflow rate is set to a weak level.
- If the temperature does not reach the desired point, change the airflow rate setting.
- In DRY operation, the airflow rate setting is not variable.

NOTE

■ Note on the angles of the flaps

- The flaps swinging range depends on the operation. (See the figure.)



■ Note on the angles of the flaps

- Using 3-D airflow circulates cold air, which tends to collect at the bottom of the room, and hot air, which tends to collect near the ceiling, throughout the room, preventing areas of cold and hot developing.

■ Notes on airflow rate setting

- At smaller airflow rates, the cooling (heating) effect is also smaller.
- If the air conditioner is operated in COOL or DRY operation with the flaps kept stopped in the downward direction, the flaps will automatically start operating in approximately an hour in order to prevent dew condensation.

CAUTION

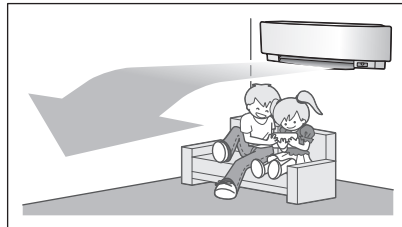
- Always use a remote controller to adjust the angles of the flaps and louvers.
- If you attempt to move the flaps and louvers forcibly by hand when they are swinging, the mechanism may be damaged.
- Inside the air outlet, a fan is rotating at a high speed.



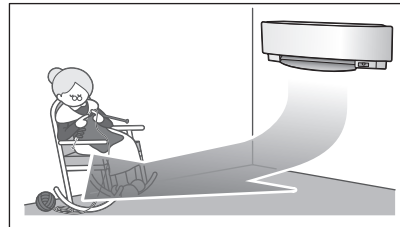
COMFORT AIRFLOW / INTELLIGENT EYE Operation

COMFORT AIRFLOW operation

The flow of air will be in the upward direction while in COOL operation and in the downward direction while in HEAT operation, which will provide a comfortable wind that will not come in direct contact with people.



COOL operation



HEAT operation

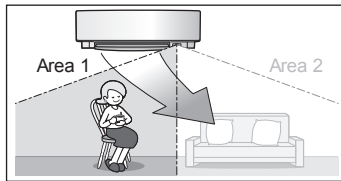
INTELLIGENT EYE operation

“INTELLIGENT EYE” is the infrared sensor which detects the human movement.

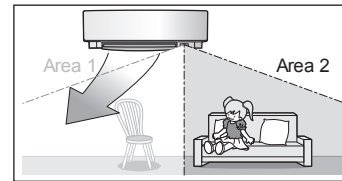
If no one is in the room for more than 20 minutes, the operation automatically changes to energy saving operation. The INTELLIGENT EYE sensor works differently depending on the situation.

[Example]

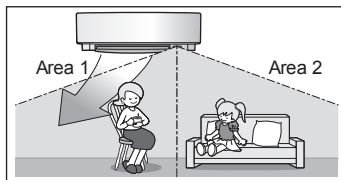
A person is detected in area 1.



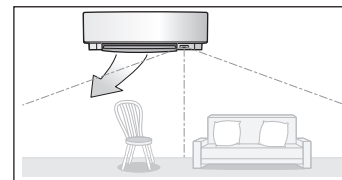
A person is detected in area 2.



People are detected in both areas.



No people are detected in the areas.



Use the INTELLIGENT EYE operation in combination with the COMFORT AIRFLOW operation.

The air conditioner will go into energy-saving mode after 20 minutes.

*The airflow direction may differ from the illustrated direction depending on the actions and movements of the people in the areas.

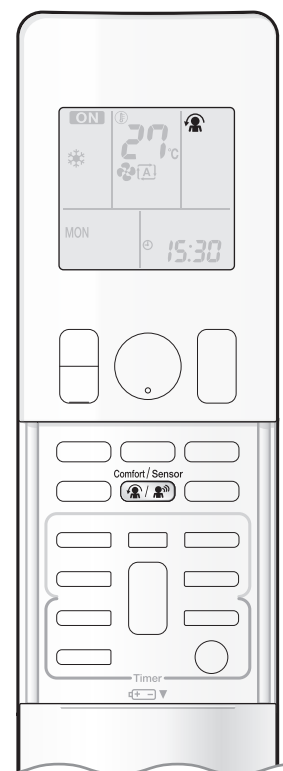
INTELLIGENT EYE operation is useful for energy saving

Energy saving operation

- If no presence detected in the room for 20 minutes, the energy saving operation will start.
- This operation changes the temperature -2°C in HEAT / $+2^{\circ}\text{C}$ in COOL / $+2^{\circ}\text{C}$ in DRY operation from set temperature. When the room temperature exceeds 30°C , the operation changes the temperature $+1^{\circ}\text{C}$ in COOL / $+1^{\circ}\text{C}$ in DRY operation from set temperature.
- This operation decreases the airflow rate slightly in FAN operation only.


Combination of COMFORT AIRFLOW operation and INTELLIGENT EYE operation

The air conditioner can go into operation with the COMFORT AIRFLOW and INTELLIGENT EYE operations combined.





■ To start operation

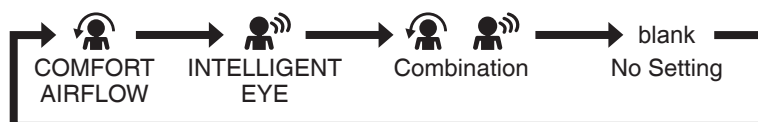
Comfort / Sensor
 Press  and select the desired mode.

- Each time the  is pressed a different setting option is displayed on the LCD.
- The INTELLIGENT EYE lamp lights green.



Display

- By selecting “ ” from the following icons, the air conditioner will be in COMFORT AIRFLOW operation combined with INTELLIGENT EYE operation.






- When the flaps (horizontal blades) are swinging, selecting any of the modes above will stop the flaps (horizontal blades) from moving.
- The lamp will be lit while human movements are detected.

■ To cancel operation

Comfort / Sensor
 Press  and select “blank” on the LCD.

- The INTELLIGENT EYE lamp goes off.

Display	Operation mode	Explanation
	COMFORT AIRFLOW	The flaps will adjust the airflow direction upward while cooling, and adjust the airflow direction downward while heating. ▶ Page 15
	INTELLIGENT EYE	The sensor will detect the movement of people in the sensing areas and the louvers will adjust the airflow direction to an area where people are not present. When there are no people in the sensing areas, the air conditioner will go into energy-saving mode. ▶ Page 15
	COMFORT AIRFLOW and INTELLIGENT EYE	The air conditioner will be in COMFORT AIRFLOW operation combined with INTELLIGENT EYE operation. ▶ Page 15
Blank	No function	-



COMFORT AIRFLOW / INTELLIGENT EYE Operation

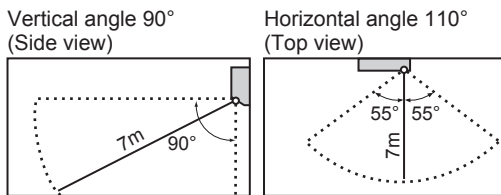
NOTE

■ Notes on COMFORT AIRFLOW operation

- The position of the flaps will change, preventing air from blowing directly on the occupants of the room.
- POWERFUL operation and COMFORT AIRFLOW operation cannot be used at the same time. Priority is given to the function of whichever button is pressed last.
- The airflow rate will be set to AUTO. If the up and down airflow direction is selected, the COMFORT AIRFLOW operation will be canceled.

■ Notes on INTELLIGENT EYE operation

- Application range is as follows.



- While the air conditioner is in INTELLIGENT EYE operation, the louvres will adjust the airflow direction if there are people in the sensing areas of the INTELLIGENT EYE so that the leftward or rightward airflow will not be directed to the people. If no people are detected in either area 1 or 2 in 20 minutes, the air conditioner will go into energy-saving mode with the set temperature shifted by 2°C. The air conditioner may go into energy-saving operation even if there are people in the areas. This may occur depending on the clothes the people are wearing if there are no movements of the people in the areas.
- The airflow direction from the louvres will be leftward if there are people in both areas 1 and 2. The air will also flow left when there is a person right in front of the sensor as the sensor will judge that there are people in both areas.
- Due to the position of the sensor, people might be exposed to the airflow of the indoor unit if they are close to the front side of the indoor unit. If there are people close to the front side of the indoor unit or in both areas, it is recommended to use the COMFORT AIRFLOW and INTELLIGENT EYE operations simultaneously. When both of them are in use, the air conditioner will not direct the airflow towards the people.
- Sensor may not detect moving objects further than 7m away. (Check the application range.)
- Sensor detection sensitivity changes according to indoor unit location, the speed of passersby, temperature range, etc.
- The sensor also mistakenly detects pets, sunlight, fluttering curtains and light reflected off of mirrors as passersby.
- INTELLIGENT EYE operation will not go on during POWERFUL operation.
- NIGHT SET mode [▶Page 21](#) will not go on during use of INTELLIGENT EYE operation.

■ Notes on combination of COMFORT AIRFLOW operation and INTELLIGENT EYE operation

- The airflow rate will be set to AUTO. If the up and down airflow direction is selected, the COMFORT AIRFLOW operation will be canceled. Priority is given to the function of whichever button is pressed last.
- When the INTELLIGENT EYE sensor detects the movement of people it adjusts the airflow direction upward (while in COOL operation) and downward (while in HEAT operation), by adjusting the flaps. When the sensor detects people, the louvres will direct the airflow in such way that it will not be blown directly on them. If there are no people, the air conditioner will go into energy-saving operation after 20 minutes.

CAUTION

- Do not place large objects near the INTELLIGENT EYE sensor. Also keep heating units or humidifiers outside the sensor's detection area. This sensor can detect undesirable objects.
- Do not hit or violently push the INTELLIGENT EYE sensor. This can lead to damage and malfunction.




POWERFUL Operation

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

■ To start POWERFUL operation

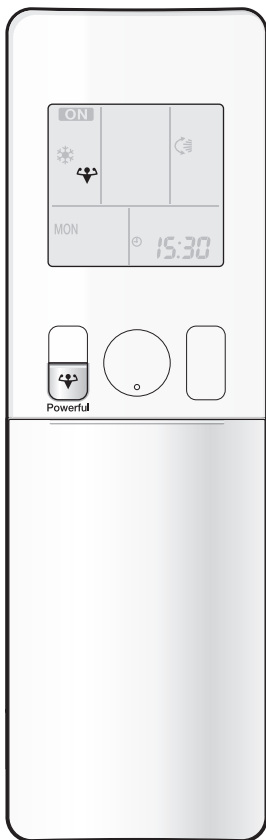
Press  during operation.

- 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.

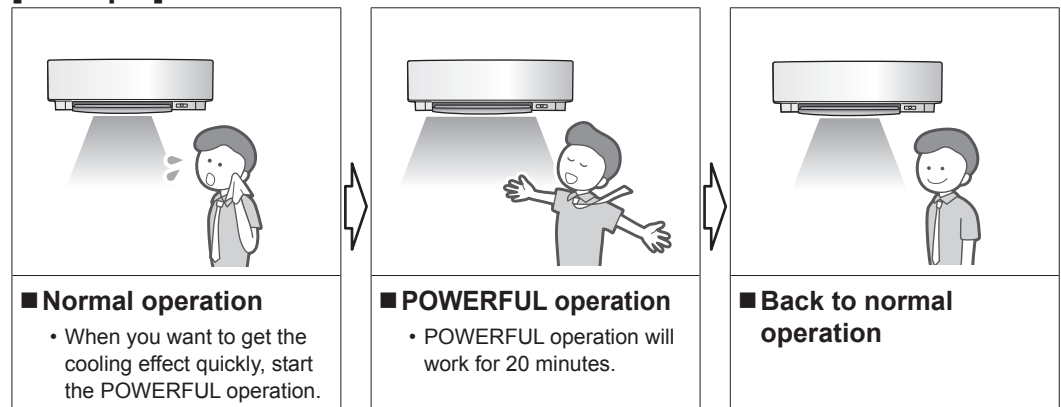
■ To cancel POWERFUL operation

Press  again.

- “” disappears from the LCD.





[Example]



NOTE

■ Notes on POWERFUL operation

- When using POWERFUL operation, there are some functions which are not available.
- POWERFUL operation cannot be used together with ECONO, COMFORT AIRFLOW or OUTDOOR UNIT 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  causes the settings to be canceled, and “” 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 operation**
To maximize the cooling (heating) effect, the capacity of outdoor unit is increased and the airflow rate is fixed to the maximum setting. The temperature and airflow settings are not variable.
- **In DRY operation**
The temperature setting is lowered by 2.5°C and the airflow rate is slightly increased.
- **In FAN operation**
The airflow rate is fixed to the maximum setting.
- **In AUTO operation**
To maximize the cooling (heating) effect, the capacity of outdoor unit is increased and the airflow rate is fixed to the maximum setting.
- **When using priority room setting**
See “Note for Multi System”. ▶ Page 29



ECONO / OUTDOOR UNIT QUIET Operation

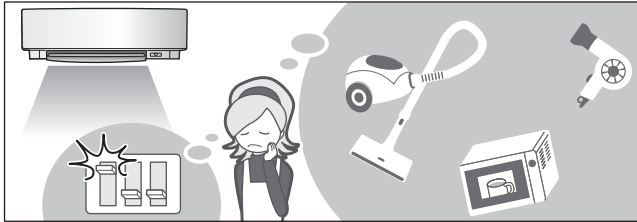
■ ECONO operation

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.

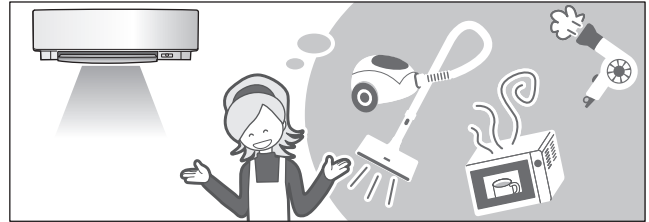
[Example]

Normal operation



- In case the air conditioner and other appliances which require high power consumption are used at the same time, a circuit breaker may trip if the air conditioner operates with its maximum capacity.

ECONO operation

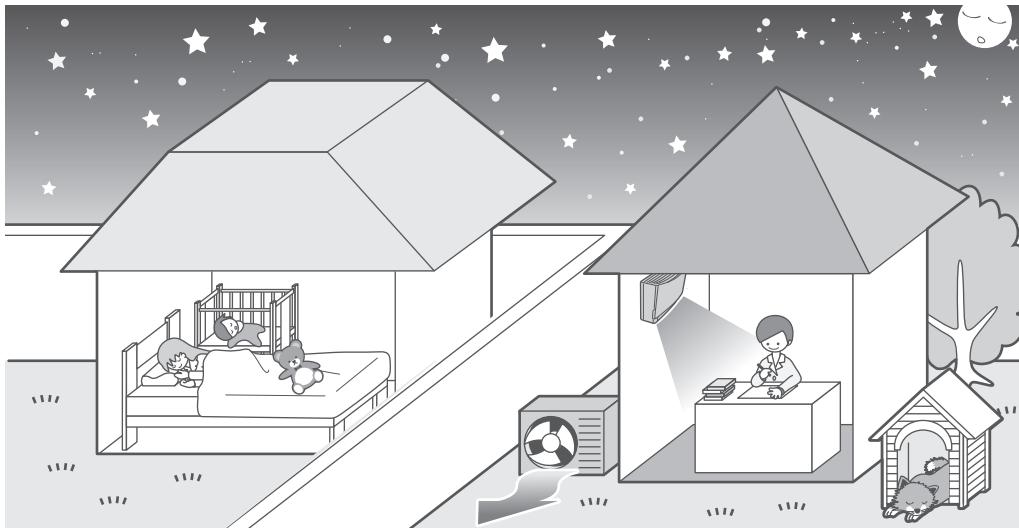


- The maximum power consumption of the air conditioner is limited by using ECONO operation. The circuit breaker will hardly trip even if the air conditioner and other appliances are used at same time.

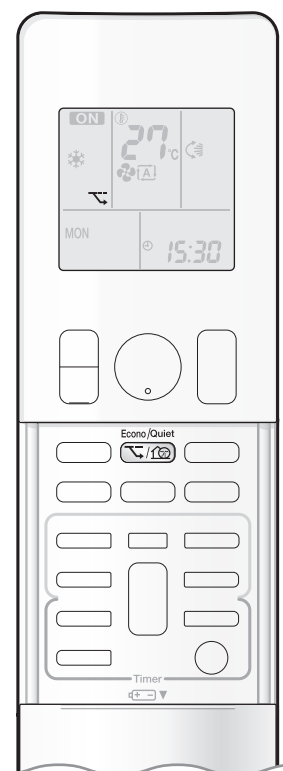
■ OUTDOOR UNIT QUIET operation

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 the night.

[Example] Using the OUTDOOR UNIT QUIET operation during the night.



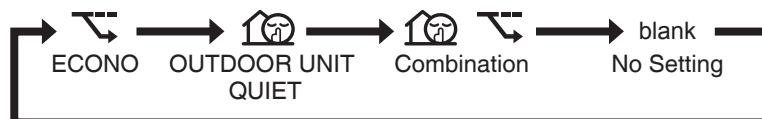
- The noise level of the outdoor unit will be lower. This function is useful when you need to consider the noise for your neighbourhood.



■ To start operation

Press  and select the desired mode.

- Each time the  is pressed a different setting option is displayed on the LCD.


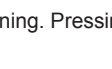


■ To cancel operation

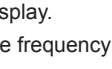
Press  and select “blank” on the LCD.

NOTE

■ Notes on ECONO operation

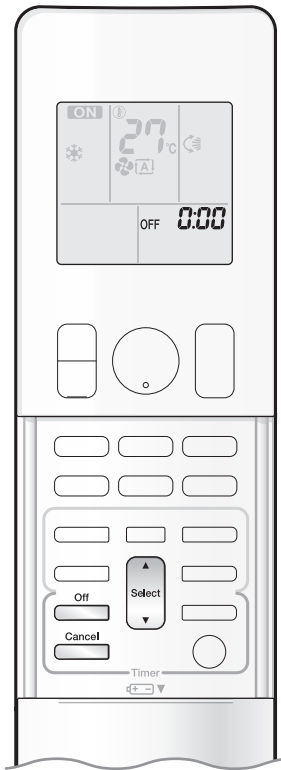
- ECONO operation can only be set when the unit is running. Pressing  causes the settings to be canceled, and “” disappears from the LCD.
- ECONO operation is a function which enables efficient operation by limiting the power consumption of the outdoor unit (operating frequency).
- ECONO operation functions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

■ Notes on OUTDOOR UNIT QUIET operation

- If using a multi system, the OUTDOOR UNIT QUIET operation will work only when this function is set on all operated indoor units. However, if using priority room setting, refer to “**Note for Multi System**”. ▶ Page 29
- This function is available in COOL, HEAT, and AUTO operation. This is not available in FAN and DRY operation.
- 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.
- Even if the operation is stopped by using the remote controller or the indoor 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 they have been already dropped low enough.
- This operation is performed with lower power and therefore may not provide a sufficient cooling (heating) effect.



OFF 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 10

1. Press .



- “0:00” is displayed on the LCD.
- “OFF” blinks.
- “⊕” and day of the week disappear from the LCD.

2. Press until the time setting reaches the point you like.

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

3. Press again.

- “OFF” and setting time are displayed on the LCD.
- The multi-monitor lamp blinks twice.
The TIMER lamp periodically lights orange. ▶Page 5



Display

■ To cancel OFF TIMER operation

Press .

- “OFF” and setting time disappear from the LCD.
- “⊕” and day of the week are displayed on the LCD.

NOTE

■ Notes on TIMER operation

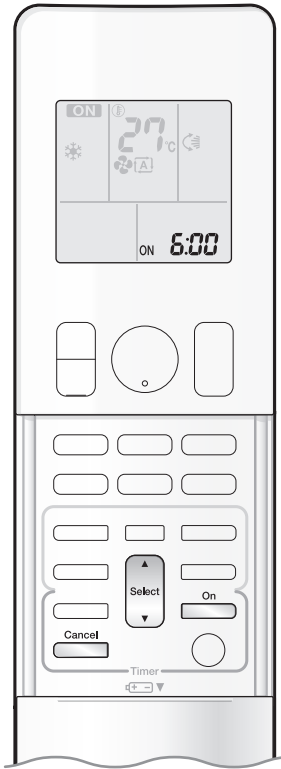
- When TIMER is set, the present time is not displayed.
- Once you set ON/OFF TIMER, the time setting is kept in the memory. The memory is canceled when remote controller batteries are replaced.
- When operating the unit via the ON/OFF TIMER, the actual length of operation may vary from the time entered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



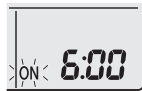
ON TIMER Operation



■ To use ON TIMER operation

- Check that the clock is correct.
If not, set the clock to the present time. ▶Page 10

1. Press On.



- “6:00” is displayed on the LCD.
- “ON” blinks.

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

2. Press Select until the time setting reaches the point you like.

- Each 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 multi-monitor lamp blinks twice.
The TIMER lamp periodically lights orange. ▶Page 5



Display

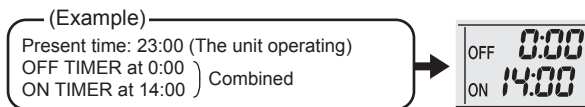
■ To cancel ON TIMER operation

Press Cancel.

- “ON” and setting time disappear from the LCD.
- “⊕” and day of the week are displayed on the LCD.

■ To combine ON TIMER and OFF TIMER

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



NOTE

- In the following cases, set the timer again.
 - After a circuit breaker has turned off.
 - After a power failure.
 - After replacing batteries in the remote controller.

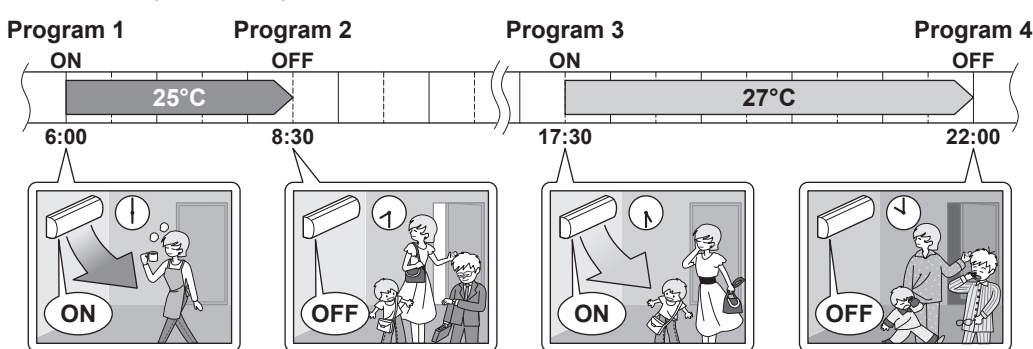
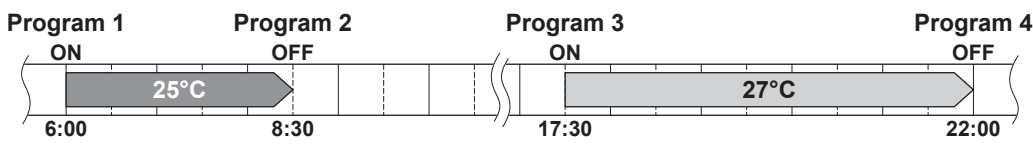
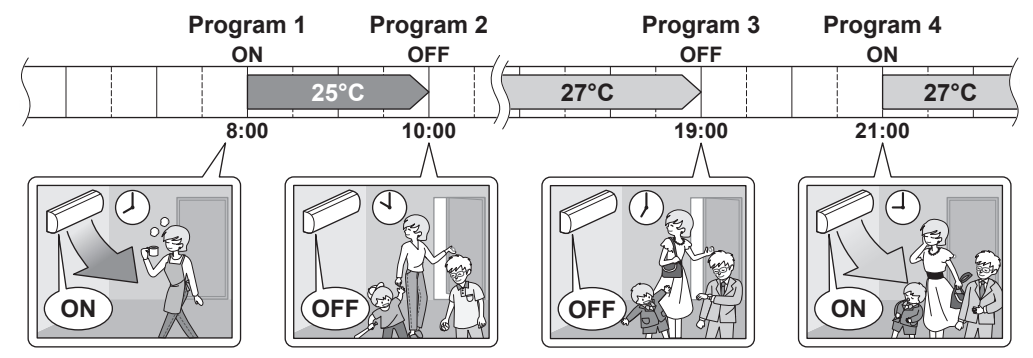


WEEKLY TIMER Operation

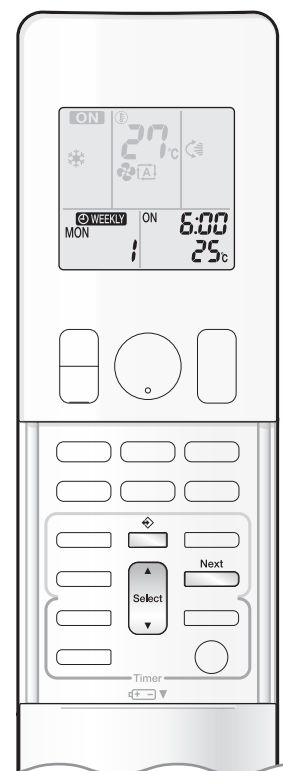
Up to 4 timer settings can be saved for each day of the week. It is convenient if the WEEKLY TIMER is set according to the family's life style.

■ Setting example of the WEEKLY TIMER

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

[Monday]	Make timer settings up to programs 1-4. ▶Page 24 
[Tuesday to Friday]	Use the copy mode to make settings for Tuesday to Friday, because these settings are the same as those for Monday. ▶Page 26 
[Saturday]	No timer settings
[Sunday]	Make timer settings up to programs 1-4. ▶Page 24 

- 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.

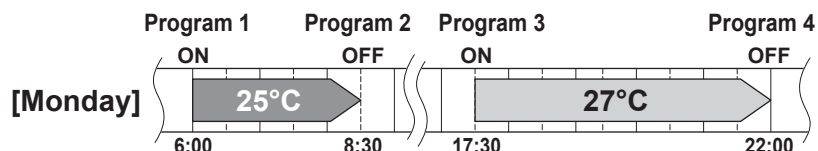


■ To use WEEKLY TIMER operation

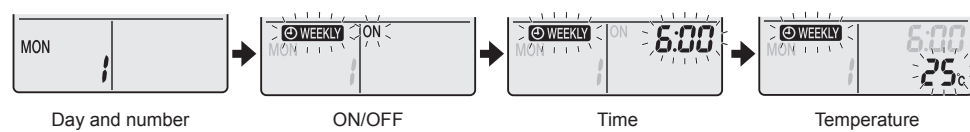
Setting mode

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

▶ Page 10




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.

Pressing  alternates the following items appearing on the LCD in rotational sequence.



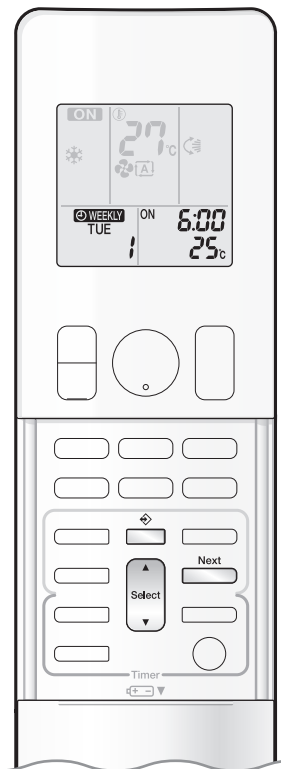
- In case the reservation has already been set, selecting “blank” deletes the reservation.
- Go to step 9 if “blank” is selected.
- To return to the day of the week and reservation number setting, press .

5. Press .


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




WEEKLY TIMER Operation






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 ON/OFF TIMER mode setting, press .
- 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.
COOL or AUTO: The unit operates at 18°C even if it is set at 10 to 17°C. 
- HEAT or AUTO: The unit operates at 30°C even if it is set at 31 to 32°C. 
- To return to the time setting, press .
- The set temperature is only displayed when the mode setting is on.



9. Press .

- Be sure to direct the remote controller toward the indoor unit and check for a receiving tone and flashing of the multi-monitor lamp.
- The temperature and time are set while in ON TIMER operation, and the time is set while in OFF TIMER operation.
- The next reservation screen will appear.
- To continue further settings, repeat the procedure from step 4.
- The multi-monitor lamp blinks twice.
The TIMER lamp periodically lights orange. 
- The multi-monitor lamp will not blink orange if all the reservation settings are deleted.






Display

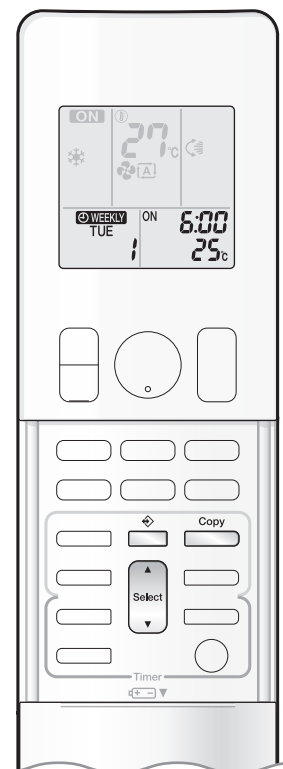
10. Press to complete the setting.

- “ WEEKLY” is displayed on the LCD and WEEKLY TIMER operation is activated.
- A reservation made once can be easily copied and the same settings used for another day of the week. Refer to “Copy mode”. 

NOTE

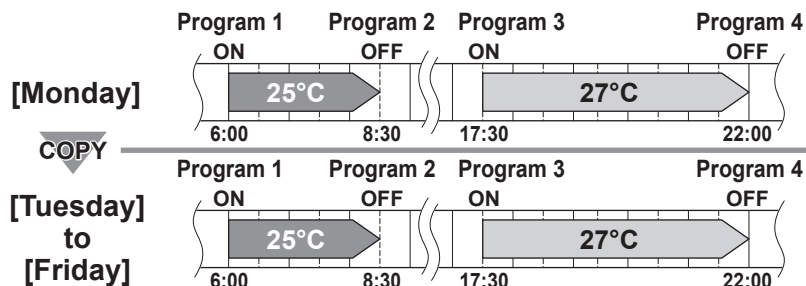
■ Notes on WEEKLY TIMER operation

- Do not forget to set the clock on the remote controller first. 
- 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.
- Shutting off the circuit breaker, power failure, and other similar events will render operation of the indoor unit’s internal clock inaccurate. Reset the clock. 

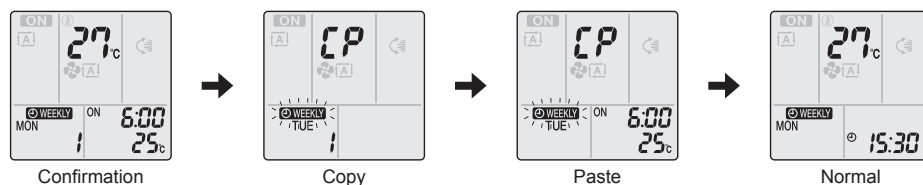


Copy mode

- A reservation made once can be copied to 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 .

- 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 .

- Be sure to direct the remote controller toward the indoor unit and check for a receiving tone and flashing the multi-monitor lamp.
- 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.
- The multi-monitor lamp blinks twice. The TIMER lamp periodically lights orange.

6. Press  to complete the setting.

- "WEEKLY" is displayed on the LCD and WEEKLY TIMER operation is activated.

NOTE

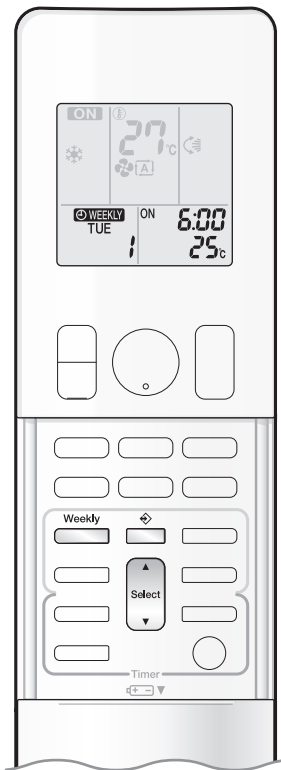
■ Note on copy mode

- 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 24

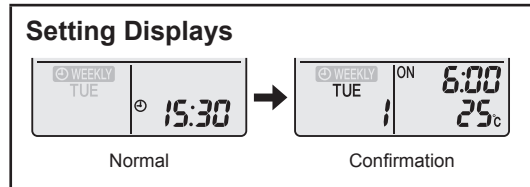


WEEKLY TIMER Operation



■ 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 **2.** [▶Page 24](#)

3. Press **to exit confirming mode.**

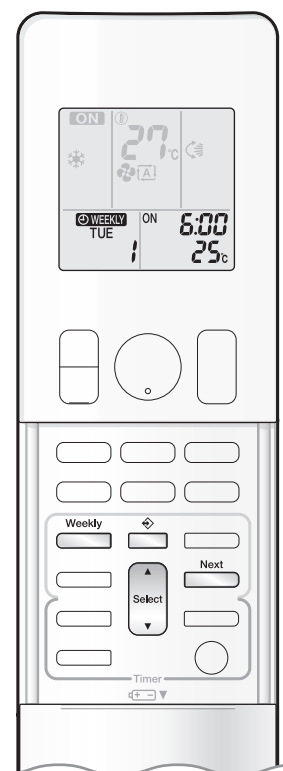
■ To deactivate WEEKLY TIMER operation

Press 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 again.
- If a reservation deactivated with is activated once again, the last reservation mode will be used.

CAUTION

- If not all the reservation settings are reflected, deactivate the WEEKLY TIMER operation once. Then press again to reactivate the WEEKLY TIMER operation.




■ 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 .

- “WEEKLY” and “ON” or “OFF” blink.

4. Press  and select “blank”.

- Pressing  changes ON/OFF TIMER mode.

- Pressing ▲ alternates the following items appearing on the LCD in rotational sequence.
- Selecting “blank” will cancel any reservation you may have.



5. Press .


- The selected reservation will be deleted.

6. Press .

- If there are still other reservations, WEEKLY TIMER operation will be activated.

The reservations for each day of the week

- This function can be used for deleting reservations for each day of the week.
- It can be used while confirming or setting reservations.

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

2. Hold  for about 5 seconds.

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

All reservations

Hold  for about 5 seconds while in normal display.

- 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.

Note for Multi System

Multi system has one outdoor unit connected to multiple indoor units.

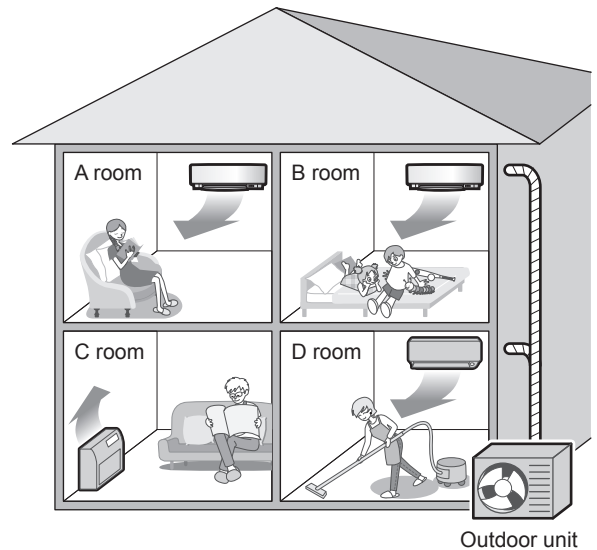
■ Selecting the operation mode

When the priority room setting is active but the set unit is not operating or when the priority room setting is inactive

When more than one indoor unit is operating, priority is given to the first unit that was turned on.

In this case, set the units that are turned on later to the same operation mode as the first unit.

Otherwise, they will enter the standby state, and the multi-monitor lamp will flash: this does not indicate malfunction.



NOTE

■ Notes on operation mode for multi system

- COOL, DRY and FAN operation may be used at the same time.
- AUTO operation automatically selects COOL operation or HEAT operation based on the indoor temperature. Therefore, AUTO operation is available when selecting the same operation mode as that of the room with the first unit to be turned on.

⚠ CAUTION

- Normally, the operation mode in the room where the unit is first run is given priority, but the following situations are exceptions, so please keep this in mind. If the operation mode of the first room is FAN operation, then using HEAT operation in any room after this will give priority to HEAT operation. In this situation, the air conditioner running in FAN operation will go on standby, and the multi-monitor lamp will flash.

With the priority room setting active

Refer to “Priority room setting” on the next page.

■ NIGHT QUIET mode (Available only for COOL operation)

NIGHT QUIET mode requires initial programming during installation. Please consult your retailer or dealer for assistance. NIGHT QUIET mode reduces the operation noise of the outdoor unit during the nighttime hours to prevent annoyance to neighbours.

- The NIGHT QUIET mode is activated when the temperature drops 5°C or more below the highest temperature recorded that day. Therefore, when the temperature difference is less than 5°C, this function will not be activated.
- NIGHT QUIET mode reduces slightly the cooling efficiency of the unit.

■ OUTDOOR UNIT QUIET operation

Refer to “OUTDOOR UNIT QUIET operation”. ▶Page 19

When the priority room setting is active but the set unit is not operating or when the priority room setting is inactive

When using the OUTDOOR UNIT QUIET operation feature with the multi system, set all indoor units to OUTDOOR UNIT QUIET operation using their remote controllers.

When clearing OUTDOOR UNIT QUIET operation, clear one of the operating indoor units using their remote controller. However OUTDOOR UNIT QUIET operation display remains on the remote controller for other rooms.

We recommend you release all rooms using their remote controllers.

When the priority room setting is active

Refer to “Priority room setting” on the next page.

■ COOL/HEAT mode lock

The COOL/HEAT mode lock requires initial programming during installation. Please consult your authorized dealer for assistance. The COOL/HEAT mode lock sets the unit forcibly to either COOL or HEAT operation. This function is convenient when you wish to set all indoor units connected to the multi system to the same operation mode.

NOTE

- The COOL/HEAT mode lock cannot be activated together with the priority room setting.

■ Priority room setting

The priority room setting requires initial programming during installation. Please consult your authorized dealer for assistance. The room designated as the priority room takes priority in the following situations.

Operation mode priority

- As the operation mode of the priority room takes precedence, the user can select a different operation mode from other rooms.

[Example]

- Room A is the priority room in the examples.
When COOL operation is selected in room A while operating the following modes in room B, C and D :

Operation mode in room B, C and D	Status of room B, C and D when the unit in room A is in COOL operation
COOL or DRY or FAN	Current operation mode maintained
HEAT	The unit enters standby mode. Operation resumes when the room A unit stops operating.
AUTO	If the unit is set to COOL operation, it continues. If the unit is set to HEAT operation, it enters standby mode. Operation resumes when the room A unit stops operating.

Priority when POWERFUL operation is used

[Example]

- Room A is the priority room in the examples.
The indoor units in rooms A, B, C and D are all operating. If the unit in room A enters POWERFUL operation, operation capacity will be concentrated in room A. In such a case, the cooling (heating) efficiency of the units in room B, C and D may be slightly reduced.

Priority when OUTDOOR UNIT QUIET operation is used

[Example]

- Room A is the priority room in the examples.
Just by setting the unit in room A to QUIET operation, the air conditioner starts OUTDOOR UNIT QUIET operation. You don't have to set all the operated indoor units to QUIET operation.

Care and Cleaning

■ Quick reference

How to open the upper front panel

- Hold the upper front panel by the sides and open it.
- Fix the panel with the panel support plate.

How to close the upper front panel

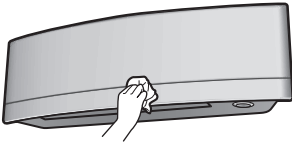
- Return the panel support plate to its previous position.
- Turn the unit ON/OFF to close the panels.
- See instructions in “Set the filters as they were and close the upper front panel.” on ▶Page 32 for a more detailed description of closing the front panel.

Cleaning parts

Upper and lower front panels

- With the panels closed, wipe them with a soft damp cloth.

If bothered by dirt



Air filter

- Vacuum dust or wash the filter.

Once every 2 weeks

▶Page 32

Titanium apatite photocatalytic air-purifying filter

- Vacuum dust or replace the filter.

[Cleaning]

Once every 6 months

▶Page 33

[Replacement]

Once every 3 years

▶Page 33

Indoor unit and remote controller

- Wipe them with soft cloth.

If bothered by dirt

Notes on cleaning

■ For cleaning, do not use the materials as follows.

- Hot water above 40°C.
- Benzine, gasoline, thinner, other volatile oils.
- Polishing compound.
- Scrubbing brushes, other hard stuff.



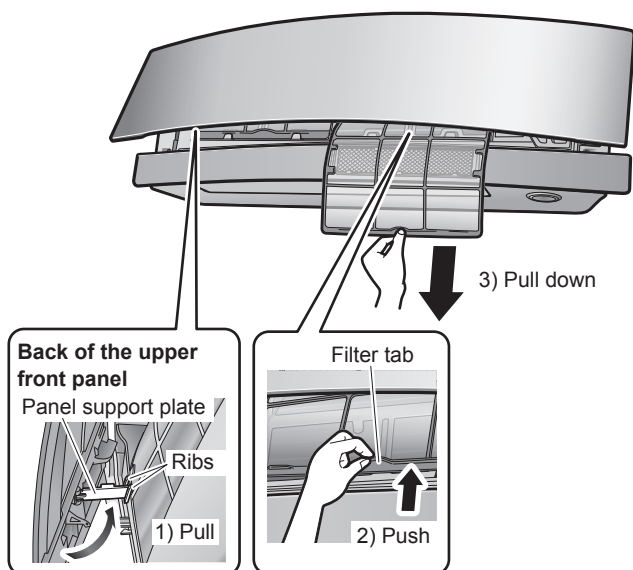
⚠ CAUTION

- Before cleaning, be sure to stop the operation and turn off the circuit breaker.
- Do not touch the aluminium fins of the indoor unit. If you touch those parts, this may cause an injury.

■ Air filter

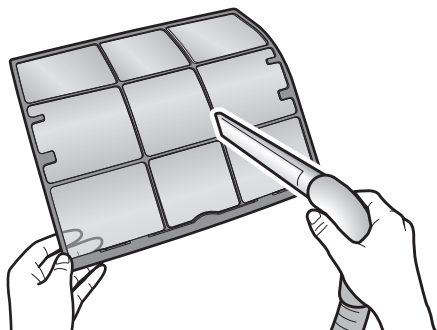
1. Pull out the air filters.

- Open the upper front panel.
- Set the panel support plate between the ribs on the unit to fix the upper front panel.
- Push the filter tab at the center of each air filter a little upwards, then pull it down.



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

- It is recommended to clean the air filters every 2 weeks.



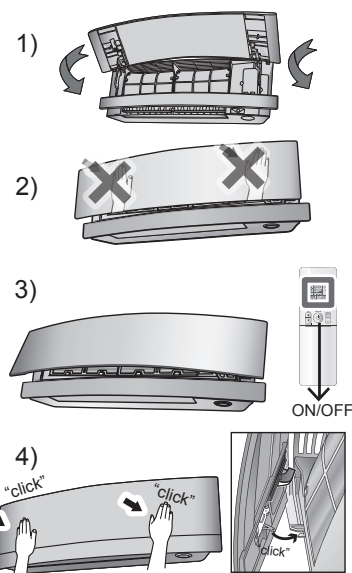
If the dust does not come off easily

- Wash the air filters with neutral detergent thinned with lukewarm water, then dry them up in the shade.
- Be sure to remove the titanium apatite photocatalytic air-purifying filter. Refer to “Titanium apatite photocatalytic air-purifying filter” on the next page.



3. Set the filters as they were and close the upper front panel.

- 1) Close the upper panel.
- 2) Do NOT push on the front panel to close it.
- 3) Turn ON the unit by remote. Wait till the panels are completely open. Then, turn OFF the unit by remote again.
- 4) Once the front panels close completely, gently push the upper front panel to hook it into position.



⚠ CAUTION

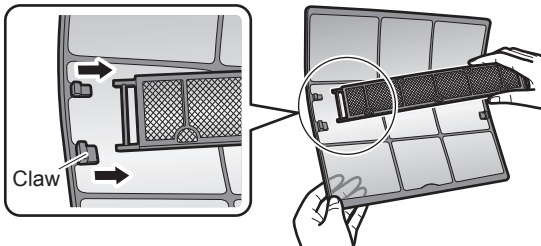
- Do not touch the aluminium fins by bare hand at the time of dismantling or mounting the filter.

Care and Cleaning

■ Titanium apatite photocatalytic air-purifying filter

1. Take off the titanium apatite photocatalytic air-purifying filter.

- Open the upper front panel and pull out the air filters.
- Hold the recessed parts of the frame and unhook the 4 claws.



2. Clean or replace the titanium apatite photocatalytic air-purifying filter.

[Maintenance]

2-1 Vacuum dusts, and soak in lukewarm water or water for about 10 to 15 minutes if dirt is heavy.

- Do not remove the filter from frame when washing with water.

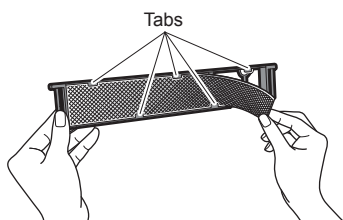
2-2 After washing, shake off remaining water and dry in the shade.

- Since the material is made out of polyester, do not wring out the filter when removing water from it.

[Replacement]

Remove the filter from the filter frame and attach a new one.

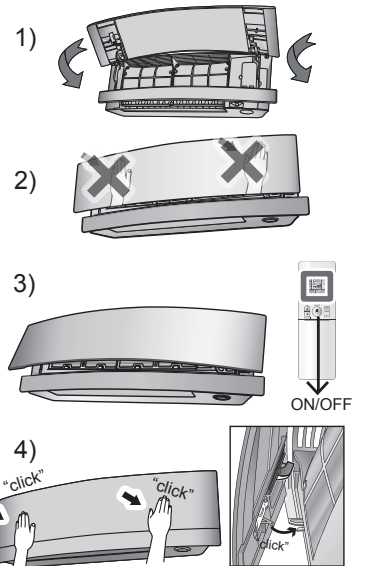
- Do not throw away the filter frame. Reuse the filter frame when replacing the titanium apatite photocatalytic air-purifying filter.
- When attaching the filter, check that the filter is set in the tabs.



- Dispose of the old filter as non-flammable waste.

3. Set the filters as they were and close the upper front panel.

- 1) Close the upper panel.
- 2) Do NOT push on the front panel to close it.
- 3) Turn ON the unit by remote. Wait till the panels are completely open. Then, turn OFF the unit by remote again.
- 4) Once the front panels close completely, gently push the upper front panel to hook it into position.



NOTE

- Operation with dirty filters:
 - cannot deodorise the air,
 - cannot clean the air,
 - results in poor heating or cooling,
 - may cause odour.
- Dispose of old filters as non-flammable waste.
- To order titanium apatite photocatalytic air-purifying filter, contact the service shop where you bought the air conditioner.



Item	Titanium apatite photocatalytic air-purifying filter (without frame) 1 set
Part No.	KAF970A46


■ Check the units

- 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  and select “” operation.

- Press  and start the operation.

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

3. Clean the air filters and set them again.

4. Take out batteries from the remote controller.

- When a multi outdoor unit is connected, make sure the HEAT operation is not used at the other room before you use the FAN operation. [▶Page 29](#)

■ 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 borne by the user.

■ Important information regarding the refrigerant used

- This product contains fluorinated greenhouse gases covered by the Kyoto Protocol.

Refrigerant type: **R410A**

GWP⁽¹⁾ value: **1975**

(1) GWP = global warming potential

- Periodical inspections for refrigerant leaks may be required depending on European or local legislation. Please contact your local dealer for more information.

Troubleshooting

■ These cases are not troubles.

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

Indoor unit

The flaps do not start swinging immediately.

- The air conditioner is adjusting the position of the flaps. The flaps will start moving soon.

The air conditioner stops generating airflow during operation.

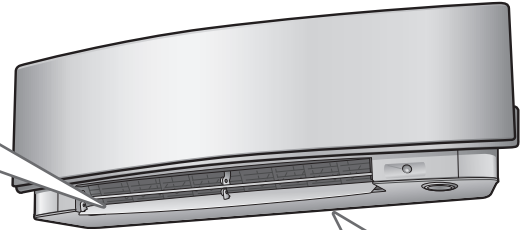
- Once the set temperature is reached, the airflow rate is reduced and operation stopped in order to avoid generating cool airflow (during heating) or in order to keep the humidity from rising (during cooling). Operation will resume automatically when the indoor temperature rises or falls.

Operation does not start soon.

- **When "ON/OFF" button was pressed soon after operation was stopped.**
- **When the mode was reselected.**
 - This is to protect the air conditioner. You should wait for about 3 minutes.

The HEAT operation stops suddenly and a flowing sound is heard.

- The outdoor unit is taking away the frost. The HEAT operation starts after the frost on the outdoor unit is removed. You should wait for about 4 to 12 minutes.



A sound is heard.

■ A sound like a flow of water

- This sound is generated because the refrigerant in the air conditioner is flowing.
- This is a pumping sound of the water in the air conditioner and heard when the water is pumped out from the air conditioner in cooling or drying operation.
- The refrigerant flows in the air conditioner even if the air conditioner is not working when the indoor units in other rooms are in operation.

■ Blowing sound

- This sound is generated when the flow of the refrigerant in the air conditioner is switched over.

■ Ticking sound

- This sound is generated when the size of the air conditioner slightly expands or shrinks as a result of temperature changes.

■ Whistling sound

- This sound is generated when refrigerant flows during defrosting operation.

■ Clicking sound during operation or idle time

- This sound is generated when the refrigerant control valves or the electrical parts operate.

■ Clopping sound

- This sound is heard from the inside of the air conditioner when the exhaust fan is activated while the room doors are closed. Open the window or turn off the exhaust fan.

Outdoor unit

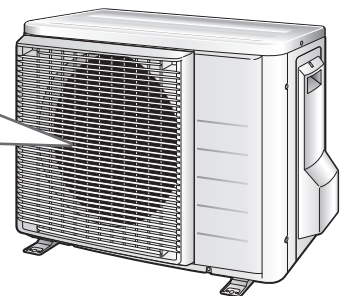
The outdoor unit emits water or steam.

■ In HEAT operation

- The frost on the outdoor unit melts into water or steam when the air conditioner is in defrost operation.

■ In COOL or DRY operation

- Moisture in the air condenses into water on the cool surface of outdoor unit piping and drips.



- Troubleshooting measures are classified into the following 2 types on a remedial basis.
Take an appropriate measure according to the symptom.



Not trouble

- These cases are not troubles.



Check

- Please check again before calling a repair person.

The air conditioner does not operate. (Multi-monitor lamp is off.)

- Has a circuit breaker turned off or a fuse blown?
- Is it a power failure?
- Are batteries set in the remote controller?
- Is the timer setting correct?



Cooling (Heating) effect is poor.

- Are the air filters clean?
- Is there anything blocking the air inlet or the outlet of the indoor and the outdoor units?
- Is the temperature setting appropriate?
- Are the windows and doors closed?
- Are the airflow rate and the airflow direction set appropriately?
- Is the air conditioner in ECONO operation or OUTDOOR UNIT QUIET operation?



An abnormal functioning happens during operation.

- The air conditioner may malfunction with lightning or radio waves. Turn off the circuit breaker, turn it on again and try operating the air conditioner with the remote controller.



Operation stopped suddenly. (Multi-monitor lamp flashes.)

- Are the air filters clean?
Clean the air filters.
- Is there anything blocking the air inlet or the outlet of the indoor and the outdoor units?
- Turn off the circuit breaker and take all obstacles away. 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.
- Are operation modes all the same for indoor units connected to outdoor units in the multi system?
If not, set all indoor units to the same operation mode and confirm that the lamps flash.
Moreover, when the operation mode is in AUTO, set all indoor unit operation modes to COOL or HEAT for a moment and check again that the lamps are normal. If the lamps stop flashing after the above steps, there is no malfunction. ▶Page 29



Upper and lower front panels do not open. (Multi-monitor lamp flashes.)

- Is there something caught in the upper and lower front panels?
Remove the object and attempt operation again using the remote controller.
If the upper and lower front panels still do not open and the multi-monitor lamp is still flashing, consult the service shop where you bought the air conditioner.



Upper front panel does not close completely.

- Are the upper front panel locks set appropriately?



Mist comes out of the indoor unit.

- This happens when the air in the room is cooled into mist by the cold airflow during COOL operation.
- This is because the air in the room is cooled by the heat exchanger and becomes mist during defrost operation.



Troubleshooting

Hot air does not flow out soon after the start of HEAT operation.

- 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.)



The ON/OFF TIMER does not operate according to the settings.

- Check if the ON/OFF TIMER and the WEEKLY TIMER are set to the same time. Change or deactivate the settings in the WEEKLY TIMER. ▶Page 23



Operation stopped suddenly. (Multi-monitor lamp is on.)

- For system protection, the air conditioner may stop operating on a sudden large voltage fluctuation. It automatically resumes operation in about 3 minutes.



Remote controller does not work properly.

- No remote controller signals are displayed.
- The remote controller sensitivity is low.
- The display is low in contrast or blacked out.
- The display runs out of control.
- The batteries are dying and the remote controller is malfunctioning. Replace all the batteries with new, size AAA.LR03 (alkaline). For details, refer to “To set the batteries” of this manual. ▶Page 9



The outdoor fan rotates while the air conditioner is not in operation.

- **After operation is stopped**
 - The outdoor fan continues rotating for another 60 seconds for system protection.
- **While the air conditioner is not in operation**
 - When the outdoor temperature is very high, the outdoor fan starts rotating for system protection.



The indoor unit gives out odour.

- 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.)



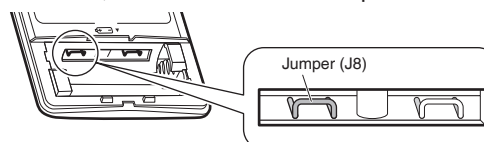
If the upper and lower front panels are closed while the air conditioner is in operation, the air conditioner will stop operating and the multi-monitor lamp will blink.

- Restart the air conditioner after stopping the operation of the air conditioner with the remote controller.



HEAT operation cannot be selected, even though the unit is heat pump model.

- Check that the jumper (J8) has not been cut. If it has been cut, contact the service shop.



■ Call the service shop immediately

WARNING

- **When an abnormality (such as a burning smell) occurs, stop operation and turn off the circuit breaker.**
 - 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 circuit breaker, a fuse, or the earth leakage circuit 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 off the circuit breaker 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 off the circuit breaker for system protection.

■ Disposal requirements



Your product and the batteries supplied with the controller are marked with this symbol. This symbol means that electrical and electronic products and batteries shall not be mixed with unsorted household waste.

For batteries, a chemical symbol can be printed beneath the symbol. This chemical symbol means that the battery contains a heavy metal above a certain concentration. Possible chemical symbols are:

- Pb: lead (>0.004%)

Do not try to dismantle the system yourself: the dismantling of the product, treatment of the refrigerant, of oil and of other parts must be done by a qualified installer in accordance with relevant local and national legislation.

Units and waste batteries must be treated at a specialized treatment facility for re-use, recycling and recovery.

By ensuring correct disposal, you will help to prevent potential negative consequences for the environment and human health. Please contact the installer or local authority for more information.

Troubleshooting



■ Fault diagnosis by remote controller

- The remote controller can receive from the indoor unit a corresponding error code according to the fault.


1. When  is held down for about 5 seconds, a “00” indication blinks on the temperature display section.

2. Press  repeatedly until a continuous beep is produced.

- The code indication changes as shown below, and notifies with a long beep.

	CODE	MEANING
SYSTEM	00	NORMAL
	U0	REFRIGERANT SHORTAGE
	U2	OVER-VOLTAGE DETECTION
	U4	SIGNAL TRANSMISSION ERROR (BETWEEN INDOOR AND OUTDOOR UNIT)
INDOOR UNIT	A1	INDOOR UNIT PCB ABNORMALITY
	A5	FREEZE-UP PROTECTION OR HEATING PEAK-CUT CONTROL
	A6	FAN MOTOR (DC MOTOR) ABNORMALITY
	C4	INDOOR HEAT EXCHANGER THERMISTOR ABNORMALITY
	C7	FRONT PANEL OPEN /CLOSE FAULT
OUTDOOR UNIT	C9	ROOM TEMPERATURE THERMISTOR ABNORMALITY
	EA	FOUR WAY VALVE ABNORMALITY
	E1	OUTDOOR UNIT PCB ABNORMALITY
	E5	OL ACTIVATION (COMPRESSOR OVERLOAD)
	E6	COMPRESSOR LOCK
	E7	DC FAN LOCK
	F3	DISCHARGE PIPE TEMPERATURE CONTROL
	H0	COMPRESSOR SYSTEM SENSOR ABNORMALITY
	H6	POSITION SENSOR ABNORMALITY
	H8	DC VOLTAGE / CURRENT SENSOR ABNORMALITY
	H9	OUTDOOR TEMPERATURE THERMISTOR ABNORMALITY
	J3	DISCHARGE PIPE THERMISTOR ABNORMALITY
	J6	OUTDOOR HEAT EXCHANGER THERMISTOR ABNORMALITY
	L4	RADIATION FIN TEMPERATURE RISE
L5	OUTPUT OVERCURRENT DETECTION	
P4	RADIATION FIN THERMISTOR ABNORMALITY	

NOTE

- A short beep and two consecutive beeps indicate non-corresponding codes.
- To cancel the code display, hold  for about 5 seconds. The code display also cancels itself if the button is not pressed for 1 minute.

■ LED ON OUTDOOR UNIT PCB 3MXS, 4MXS, 5MXS series

GREEN		RED					DIAGNOSIS
MICROCOMPUTER NORMAL		MALFUNCTION DETECTION					
LED-A	LED1	LED2	LED3	LED4	LED5		
⚡	●	●	●	●	●	NORMAL → CHECK INDOOR UNIT	
⚡	☀	●	☀	☀	●	HIGH PRESSURE PROTECTOR WORKED OR FREEZE-UP IN OPERATING UNIT OR STAND-BY UNIT	
⚡	☀	●	☀	●	●	* OVERLOAD RELAY WORKED OR HIGH DISCHARGE PIPE TEMPERATURE	
⚡	●	☀	☀	●	●	FAULTY COMPRESSOR START	
⚡	●	☀	●	☀	●	INPUT OVERCURRENT	
⚡	☀	☀	●	●	●	* THERMISTOR OR CT ABNORMALITY	
⚡	☀	☀	●	☀	●	HIGH TEMPERATURE SWITCHBOX	
⚡	●	●	●	☀	●	HIGH TEMPERATURE AT INVERTER CIRCUIT HEATSINK	
⚡	●	●	☀	●	●	* OUTPUT OVERCURRENT	
⚡	●	●	☀	☀	●	* REFRIGERANT SHORTAGE	
⚡	☀	●	●	☀	●	LOW VOLTAGE TO MAIN CIRCUIT OR MOMENTARY VOLTAGE LOSS	
⚡	☀	●	●	●	●	REVERSING SOLENOID VALVE SWITCHING FAILURE	
⚡	☀	☀	☀	☀	●	FAN MOTOR FAULT	
☀	-	-	-	-	●	[NOTE 1]	
●	-	-	-	-	●	POWER SUPPLY FAULT OR [NOTE 2]	

NOTE: The LED5 is only available in the 5M series.

GREEN	NORMALLY FLASHING
RED	NORMALLY OFF
☀	ON
⚡	FLASHING
●	OFF
-	IRRELEVANT

■ LED ON OUTDOOR UNIT PCB 2MXS series

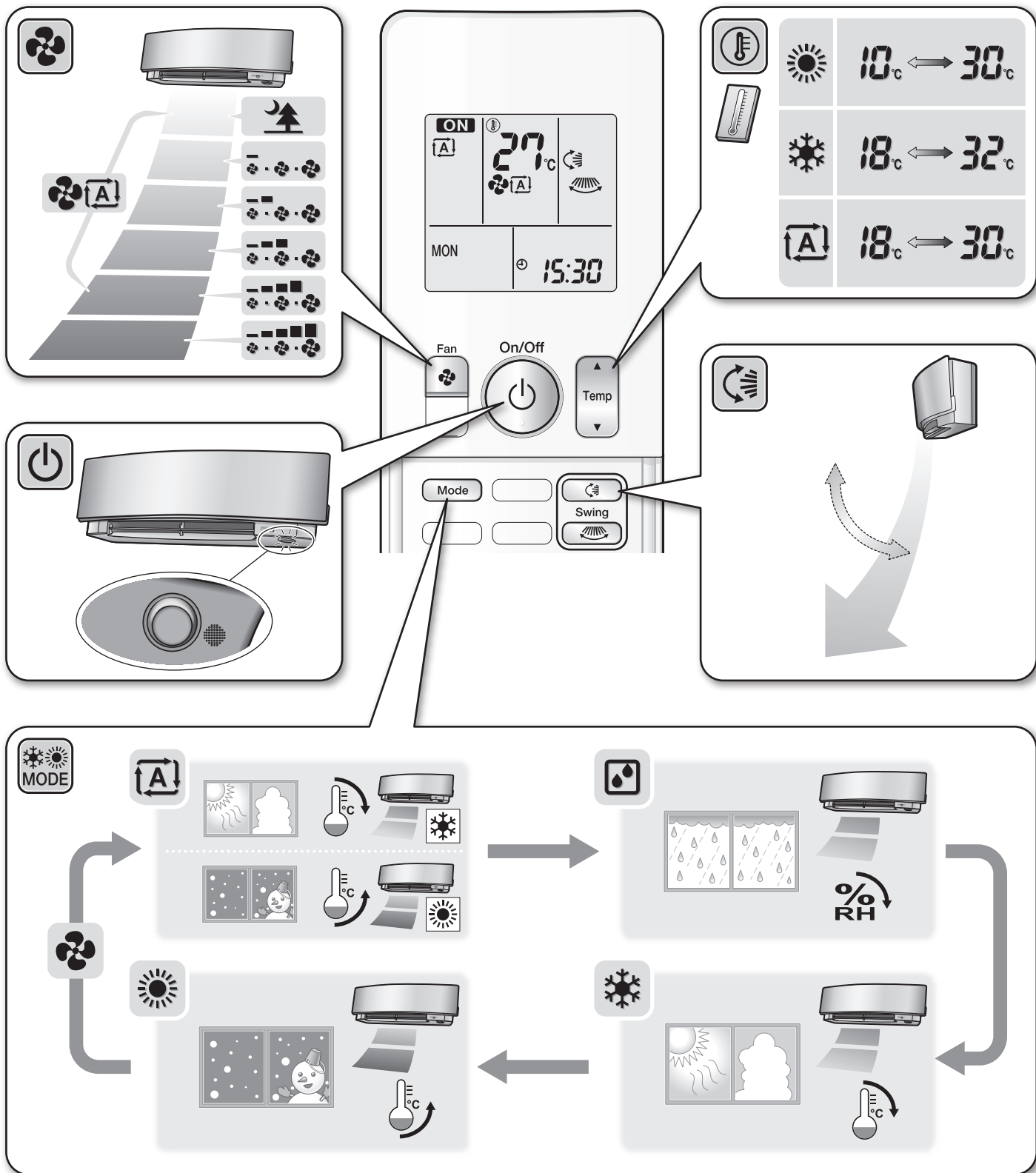
GREEN		DIAGNOSIS
MICROCOMPUTER NORMAL		
LED-A		
⚡		NORMAL → CHECK INDOOR UNIT
☀		[NOTE 1]
●		POWER SUPPLY FAULT OR [NOTE 2]

GREEN	NORMALLY FLASHING
☀	ON
⚡	FLASHING
●	OFF

NOTE

- Turn off the power and then on again. If the LED display recurs, the outdoor unit PCB is faulty.
- Diagnosis marked
- * Do not apply to some cases. For details, refer to the service guide.

Quick Reference



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