

DAIKIN

INVERTER

DAIKIN ROOM AIR CONDITIONER

Operation Manual

MODELS FTXS80KVMA
FTXS90KVMA
FTXS100KVMA



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Safety Precautions






- Keep this manual where the operator can easily find it.
- 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.

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

- 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 highspeed 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 the 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.
- Do not block air inlets nor outlets. Impaired air flow may result in insufficient performance or trouble.
- 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 aluminum fins of the unit.
- This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.
- Children should be supervised to ensure that they do not play with the 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.



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- 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.



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.

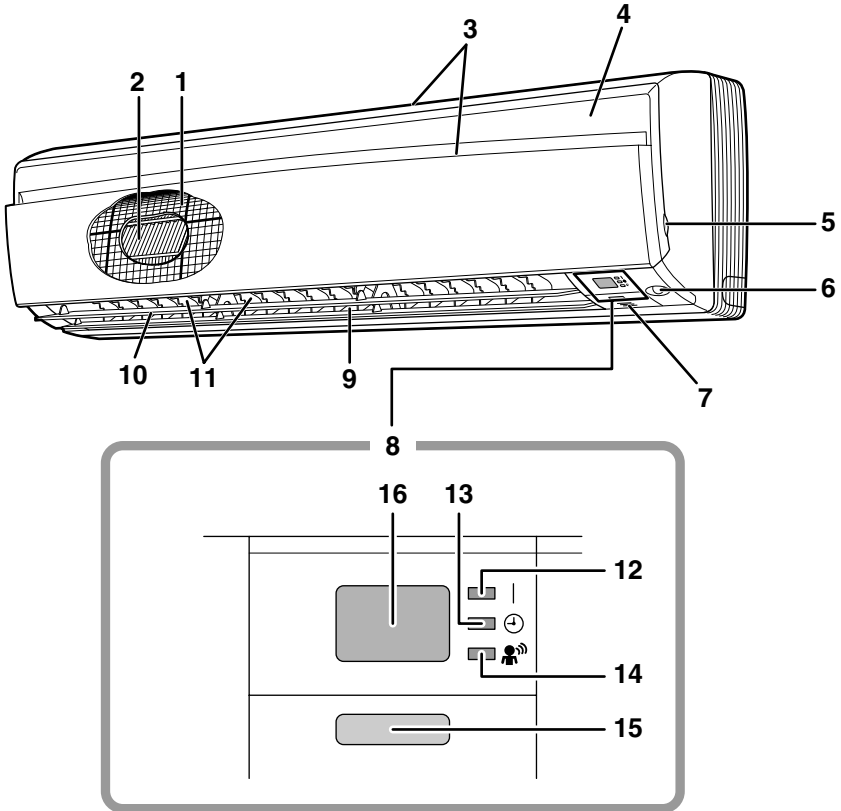
- For power supply, be sure to use a separate power circuit dedicated to the air conditioner.

System relocation.

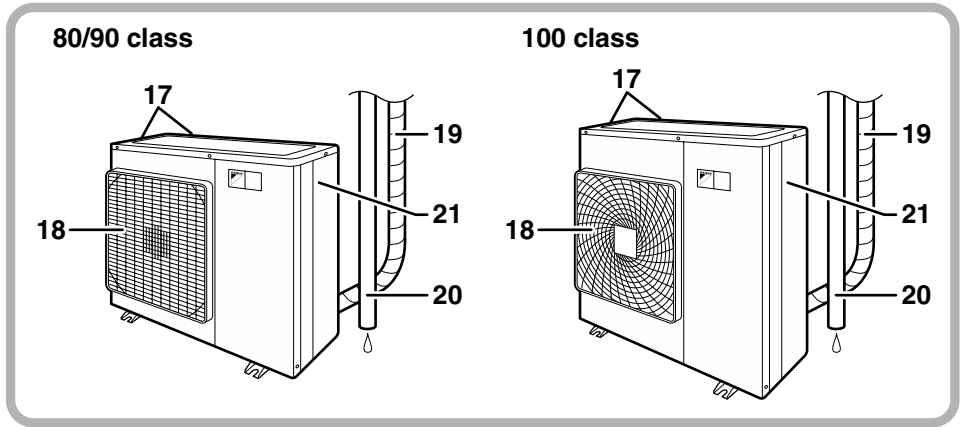
- Relocating the air conditioner requires specialized knowledge and skills. Please consult the dealer if relocation is necessary for moving or remodeling.

Names of Parts

■ Indoor Unit



■ Outdoor Unit



■ Indoor Unit

1. Air filter
2. Titanium apatite photocatalytic air-purifying filter
3. Air inlet
4. Front panel
5. Panel tab
6. INTELLIGENT EYE sensor:
 - It detects the movements of people and automatically switches between normal operation and energy saving operation. (page 15.)
7. Room temperature sensor:
 - It senses the air temperature around the unit.
8. Display
9. Air outlet
10. Flaps (horizontal blades): (page 12.)
11. Louvers (vertical blades):
 - The louvers are inside of the air outlet. (page 12.)

12. OPERATION lamp (green)
13. TIMER lamp (yellow): (page 20.)
14. INTELLIGENT EYE lamp (green): (page 15.)
15. Indoor Unit ON/OFF switch:

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

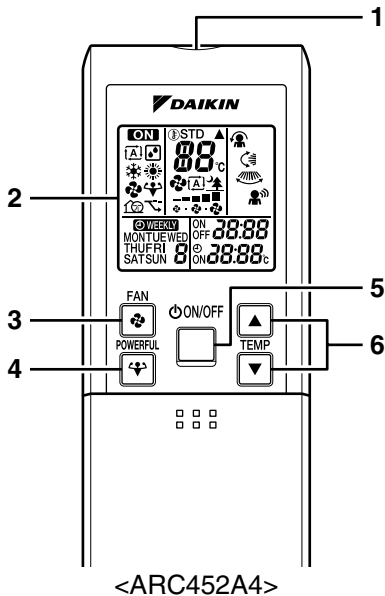
Mode	Temperature setting	Airflow rate
AUTO	25°C	AUTO

- This switch is useful when the remote controller is missing.
16. Signal receiver:
 - It receives signals from the remote controller.
 - When the unit receives a signal, you will hear a beep sound.
 - Operation start beep-beep
 - Settings changed beep
 - Operation stop..... long beep

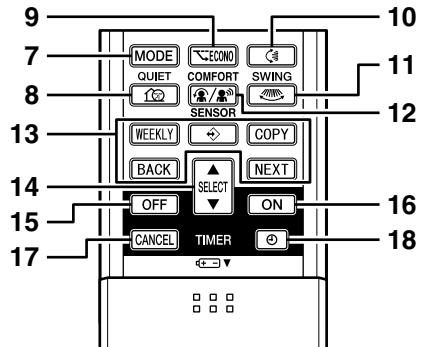
■ Outdoor Unit

17. Air inlet: (Back and side)
18. Air outlet
19. Refrigerant piping and inter-unit wiring
20. Drain hose
21. Earth terminal:
 - It is inside of this cover.

■ Remote Controller



<Open the front cover>

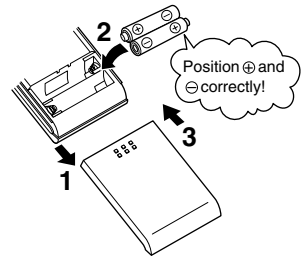


- 1. Signal transmitter:**
 - It sends signals to the indoor unit.
- 2. Display:**
 - It displays the current settings.
(In this illustration, each section is shown with its displays on for the purpose of explanation.)
- 3. FAN setting button:**
 - It selects the airflow rate setting.
- 4. POWERFUL button:**
 - POWERFUL operation (page 17.)
- 5. ON/OFF button:**
 - Press this button once to start operation.
Press once again to stop it.
- 6. TEMPERATURE adjustment buttons:**
 - It changes the temperature setting.
- 7. MODE selector button:**
 - It selects the operation mode.
(AUTO/DRY/COOL/HEAT/FAN) (page 10.)
- 8. QUIET button:**
 - OUTDOOR UNIT QUIET operation (page 18.)
- 9. ECONO button:**
 - ECONO operation (page 19.)
- 10. SWING button:**
 - Flaps (horizontal blades) (page 12.)
- 11. SWING button:**
 - Louvers (vertical blades) (page 12.)
- 12. COMFORT/SENSOR button:**
 - COMFORT AIRFLOW and INTELLIGENT EYE operation (page 14, 15.)
- 13. WEEKLY/PROGRAM/COPY/BACK/NEXT button:**
 - WEEKLY TIMER operation (page 22.)
- 14. SELECT button:**
 - It changes the ON/OFF TIMER and WEEKLY TIMER settings. (page 20, 23.)
- 15. OFF TIMER button:** (page 20.)
- 16. ON TIMER button:** (page 21.)
- 17. TIMER CANCEL button:**
 - It cancels the timer setting. (page 20, 21.)
 - It cannot be used for the WEEKLY TIMER operation.
- 18. CLOCK button:** (page 8.)

Preparation before Operation

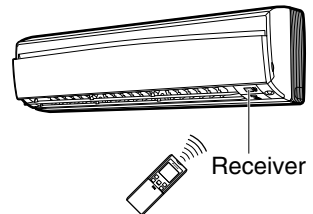
■ To set the batteries

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



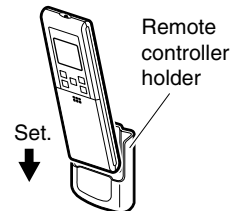
■ To operate the remote controller

- 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. 7m.



■ 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.



- To remove, pull it upwards.

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 approx. 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 shop.

Preparation before Operation

■ To set the clock

1. Press “CLOCK button”.

“0:00” is displayed.

“MON” and “⌚” blink.

2. Press “SELECT button” to set the current day of the week.

3. Press “CLOCK button”.

“⌚” blinks.

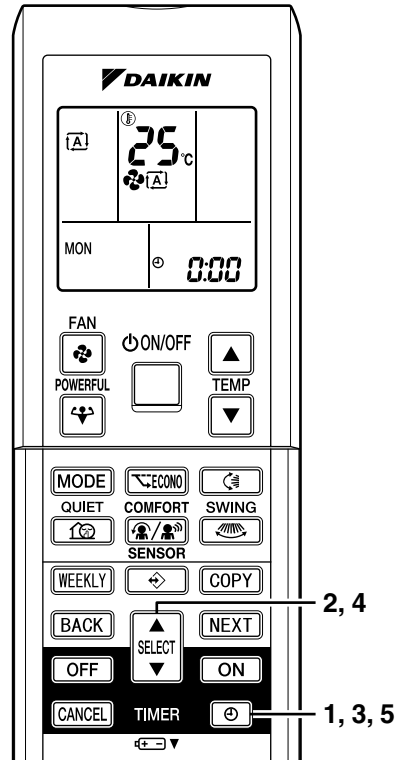
4. Press “SELECT button” to set the clock to the present time.

Holding down “▲” or “▼” button rapidly increases or decreases the time display.

5. Press “CLOCK button”.

Point the remote controller at the indoor unit when pushing the buttons.

“.” blinks.



NOTE

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

■ Turn the breaker on

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

NOTE

■ 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 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 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"> • A safety device may work to stop the operation. • Condensation may occur on the indoor unit and drip.
HEAT	Outdoor temperature: –15 to 24°C Indoor temperature: 10 to 30°C	<ul style="list-style-type: none"> • A safety device may work to stop the operation.
DRY	Outdoor temperature: 10 to 46°C Indoor temperature: 18 to 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.

- The operation of the system outside the above 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 selector button” and select a operation mode.

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

: AUTO

: DRY

: COOL

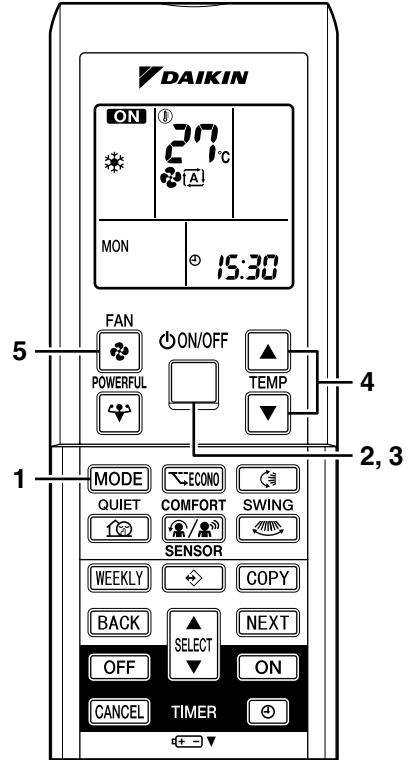
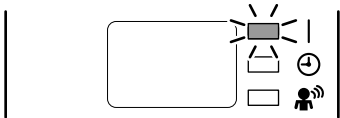
: HEAT

: FAN



2. Press “ON/OFF button”.

- The OPERATION lamp lights up.




■ To stop operation

3. Press “ON/OFF button” again.

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






■ To change the temperature setting

4. Press “TEMPERATURE adjustment button”.


DRY or FAN mode	AUTO or COOL or HEAT mode
The temperature setting is not variable.	Press “▲” to raise the temperature and press “▼” to lower the temperature.
	Set to the temperature you like.
	

■ To change the airflow rate setting

5. Press “FAN setting button”.

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 “  ” “  ” 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.

NOTE

■ Notes 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 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.
- A pinging sound may be heard during defrosting operation, which, however does not mean that the air conditioner has failures.

■ Note on COOL operation

- 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.

■ 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.

■ Notes on AUTO operation

- 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 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

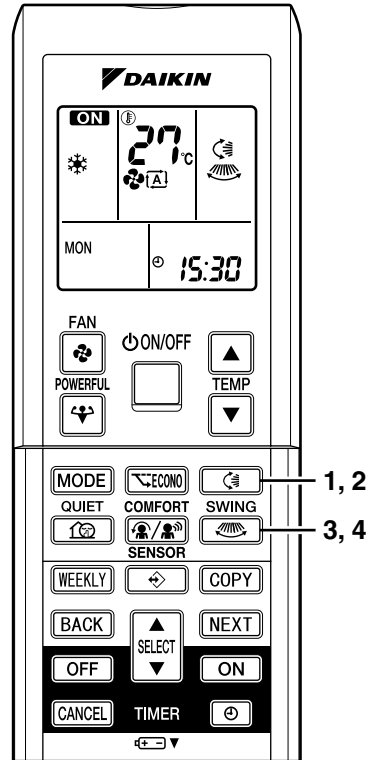
You can adjust the airflow direction to increase your comfort.

■ To adjust the flaps (horizontal blades)





1. Press “SWING button ”.
 - “” is displayed on the LCD and the flaps will begin to swing.
2. When the flaps have reached the desired position, press “SWING button ” once more.
 - The flaps will stop moving.
 - “” disappears from the LCD.

■ To adjust the louvers (vertical blades)

3. Press “SWING button ”.
 - “” is displayed on the LCD.
4. When the louvers have reached the desired position, press the “SWING button ” once more.
 - The louvers will stop moving.
 - “” disappears from the LCD.



■ To start 3-D airflow

1. 3. Press the “SWING button ” and the “SWING button ”:
the “” and “” display will light up and the flap and louvers will move in turn.

■ To cancel 3-D airflow

2. 4. Press either the “SWING button ” or the “SWING button ”.

■ COMFORT AIRFLOW operation

- Check COMFORT AIRFLOW operation in the section of “COMFORT AIRFLOW Operation” and “INTELLIGENT EYE Operation”. (page 14, 15.)

Notes on flaps and louvers angles

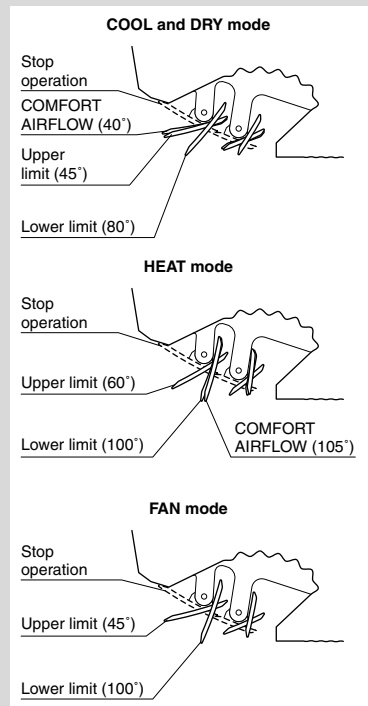
- When “SWING button” is selected, the flaps swinging range depends on the operation mode. (See the figure.)

Three-Dimensional (3-D) airflow

- Using three-dimensional airflow circulates cold air, which tends to be collected 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.

■ ATTENTION

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





COMFORT AIRFLOW Operation

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

■ To start COMFORT AIRFLOW operation

1. Press “COMFORT/SENSOR button” and select “” on the LCD.

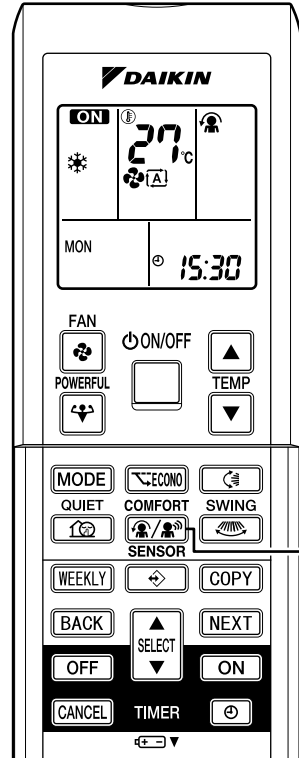
- Each time the “COMFORT/SENSOR button” is pressed a different setting option is displayed on the LCD.
- By selecting “ ” from the following icons, the air conditioner will be in COMFORT AIRFLOW operation combined with INTELLIGENT EYE operation. (page 16.)



■ To cancel COMFORT AIRFLOW operation

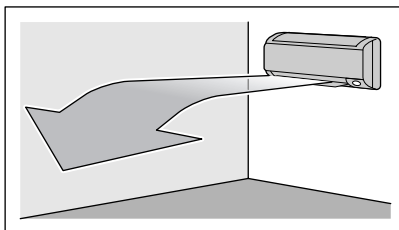
2. Press “COMFORT/SENSOR button”.

- Press the button to select “Blank”.

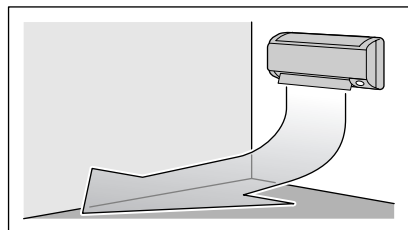


Notes on COMFORT AIRFLOW operation

- The flap position 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.
- The volume of air will be set to AUTO. If the upward and downward airflow direction is selected, the COMFORT AIRFLOW function will be canceled.
- Priority is given to the function of whichever button is pressed last.
- The COMFORT AIRFLOW function makes the following airflow direction adjustments.
The flaps will move upward while cooling so that the airflow will be directed upward.
The flaps will move downward while heating so that the airflow will be directed downward.



Cooling operation





Heating operation

INTELLIGENT EYE Operation

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

■ To start INTELLIGENT EYE operation

1. Press “COMFORT/SENSOR button” and select “” on the LCD.

- Each time the “COMFORT/SENSOR button” is pressed a different setting option is displayed on the LCD.
- By selecting “ • ” from the following icons, the air conditioner will be in INTELLIGENT EYE operation combined with COMFORT AIRFLOW operation. (page 16.)



- When the flaps (horizontal blades) are swinging, the operating as above will stop the movement of them.

■ To cancel the INTELLIGENT EYE operation

2. Press “COMFORT/SENSOR button”.

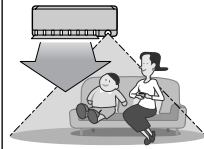
- Press the button to select “Blank”.

[EX.]

When someone is in the room

- **Normal operation**

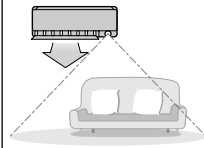
The air conditioner is in normal operation while the sensor is detecting the movement of people.



When no one is in the room

- **20 minutes after, start energy saving operation.**

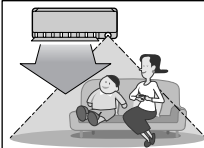
The set temperature is shifted in $\pm 2^{\circ}\text{C}$ steps.

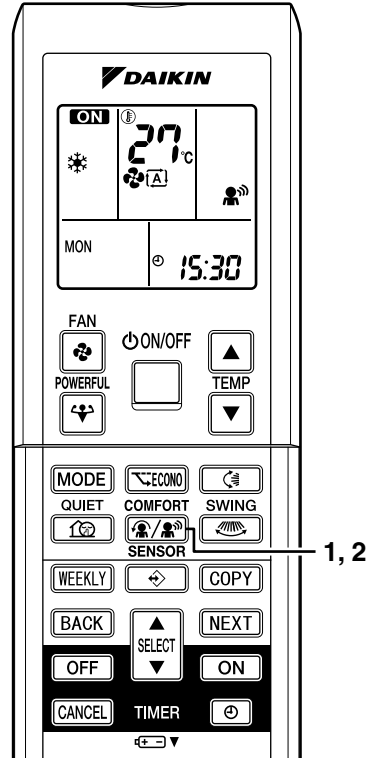


Someone is back in the room

- **Back to normal operation.**

The air conditioner will return to normal operation when the sensor detects the movement of people again.





INTELLIGENT EYE Operation

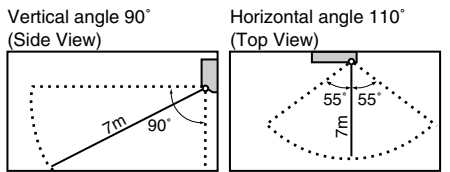
“INTELLIGENT EYE” is useful for energy saving

■ Energy saving operation

- Change the temperature -2°C in heating / $+2^{\circ}\text{C}$ in cooling / $+2^{\circ}\text{C}$ in dry mode from set temperature.
- Decrease the airflow rate slightly in FAN mode only.
- If no presence detected in the room for 20 minutes.

Notes on “INTELLIGENT EYE”

- Application range is as follows.



- 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 20.) will not go on during use of INTELLIGENT EYE operation.

■ To combine “COMFORT AIRFLOW operation” and “INTELLIGENT EYE operation”

1. Press “COMFORT/SENSOR button” and select “” on the LCD.

- Each time the “COMFORT/SENSOR button” is pressed a different setting option is displayed on the LCD.



2. Press “COMFORT/SENSOR button”.

- Press the button to select “Blank”.

- The air conditioner can go into operation with the COMFORT AIRFLOW and INTELLIGENT EYE functions combined.
- The volume of air will be set to AUTO. If the upward and downward airflow direction is selected, the COMFORT AIRFLOW operation will be canceled. Priority is given to the function of whichever button is pressed last.


CAUTION

- Do not place large objects near the 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

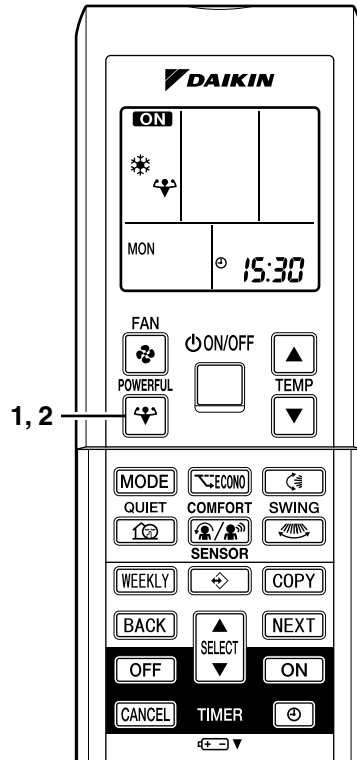
POWERFUL operation quickly maximizes the cooling (heating) effect in any operation mode. You can get the maximum capacity.

■ To start POWERFUL operation

1. Press “POWERFUL button”.
 - 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

2. Press “POWERFUL button” again.
 - “” disappears from the LCD.



NOTE

■ Notes on POWERFUL operation

- POWERFUL Operation cannot be used together with ECONO, QUIET, or COMFORT 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, HEAT and AUTO mode**
To maximize the cooling (heating) effect, the capacity of outdoor unit must be increased and the airflow rate is 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.

OUTDOOR UNIT QUIET Operation

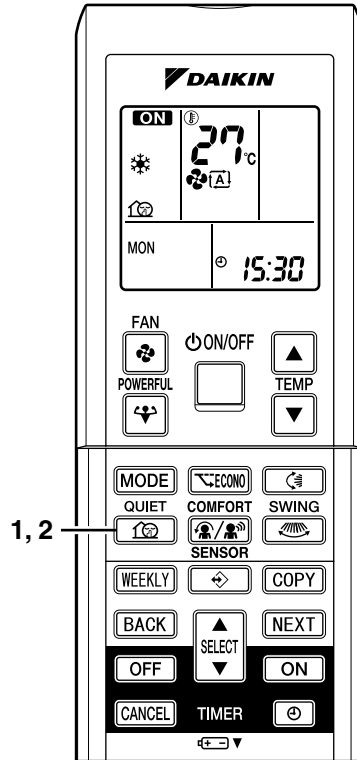
OUTDOOR UNIT QUIET operation lowers the noise level of the outdoor unit by changing the frequency and fan speed on the outdoor unit. This function is convenient during night.

■ To start OUTDOOR UNIT QUIET operation

1. Press “QUIET button”.
 - “” is displayed on the LCD.

■ To cancel OUTDOOR UNIT QUIET operation

2. Press “QUIET button” again.
 - “” disappears from the LCD.



NOTE

■ Notes 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.
- 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

1. Press “ECONO button”.

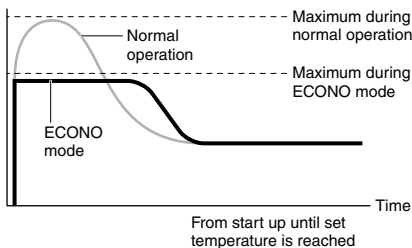
- “” is displayed on the LCD.

■ To cancel ECONO operation

2. Press “ECONO button” again.

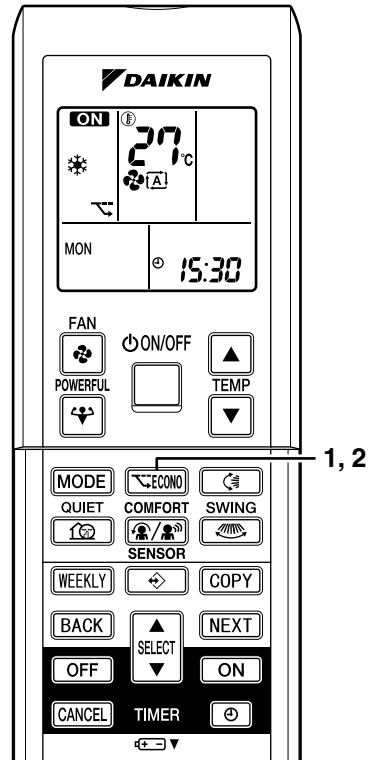
- “” disappears from the LCD.

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 OFF button causes the setting 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 8.)

1. Press “OFF TIMER button”.

“ 0:00 ” is displayed.

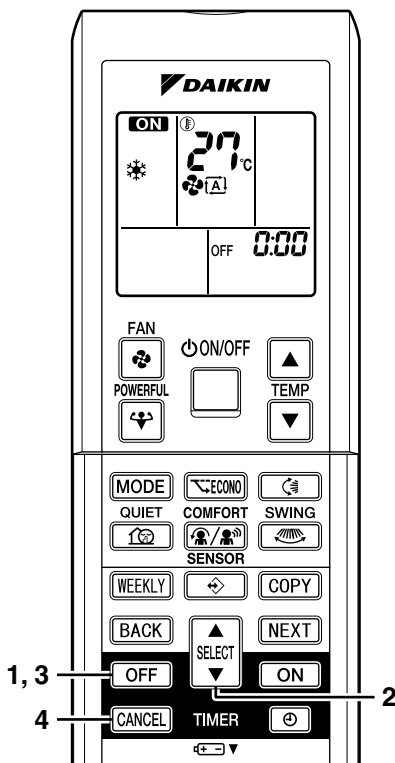
“ OFF ” blinks.

2. Press “SELECT button” 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 “OFF TIMER button” again.

- The TIMER lamp lights up.



■ To cancel OFF TIMER operation

4. Press “CANCEL button”.

- 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 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.

■ To use ON TIMER operation

- Check that the clock is correct. If not, set the clock to the present time. (page 8.)

1. Press “ON TIMER button”.

“ 6:00 ” is displayed.

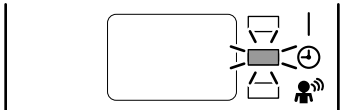
“ ON ” blinks.

2. Press “SELECT button” 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 TIMER button” again.

- The TIMER lamp lights up.



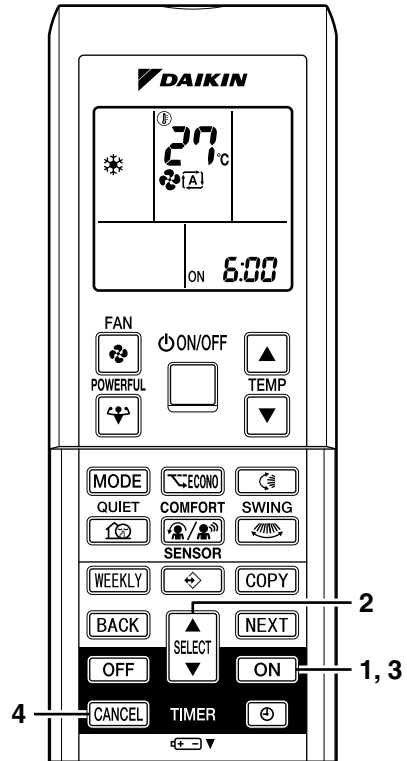
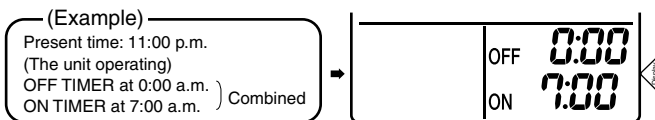
■ To cancel ON TIMER operation

4. Press “CANCEL button”.

- The TIMER lamp goes off.

■ To combine ON TIMER and OFF TIMER

- A sample setting for combining the two 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.

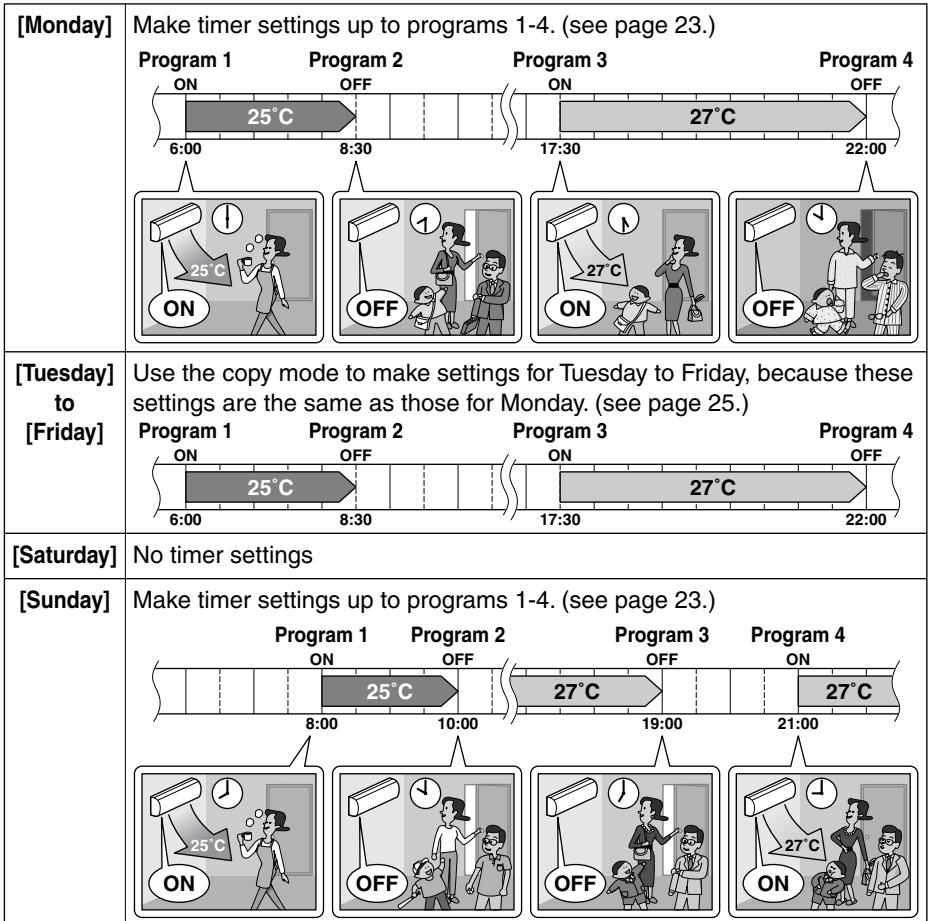
WEEKLY TIMER Operation

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.

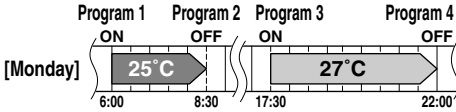


- Up to 4 reservations per day and 28 reservations per week can be set in the WEEKLY TIMER. The effective use of the copy mode ensures ease of making reservations.
- The use of ON-ON-ON-ON settings, for example, makes it possible to schedule operating mode and set temperature changes. Furthermore, by 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 8.)



1. Press “” button”.

- 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 the “SELECT button” to select the desired day of the week and reservation number.

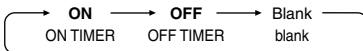
- Pressing the “SELECT button” changes the reservation number and the day of the week.

3. Press “NEXT button”.

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

4. Press “SELECT button” to select the desired mode.

- Pressing the “SELECT button” 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 “NEXT button”.

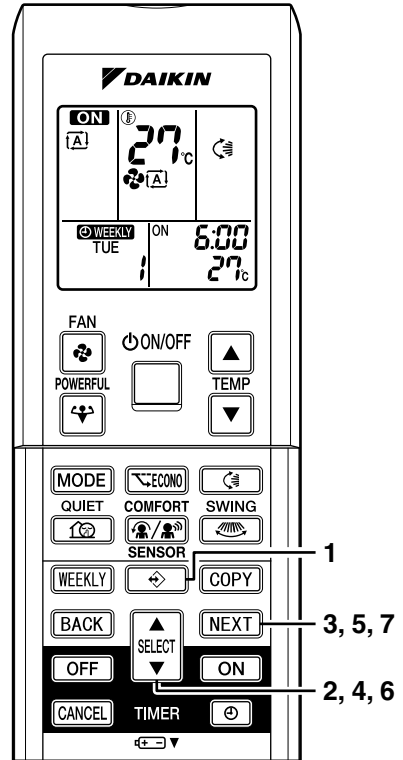
- The ON/OFF TIMER mode will be set.
- “ WEEKLY” and the time blink.

6. Press “SELECT button” 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 “BACK button”.
- Go to STEP 9 when setting the OFF TIMER.

7. Press “NEXT button”.

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



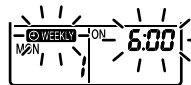
Setting Displays



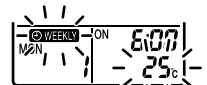
Day and number settings



ON/OFF settings



Time settings



Temperature settings

WEEKLY TIMER Operation


8. Press “SELECT button” 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 button”.
- The set temperature is only displayed when the mode setting is on.

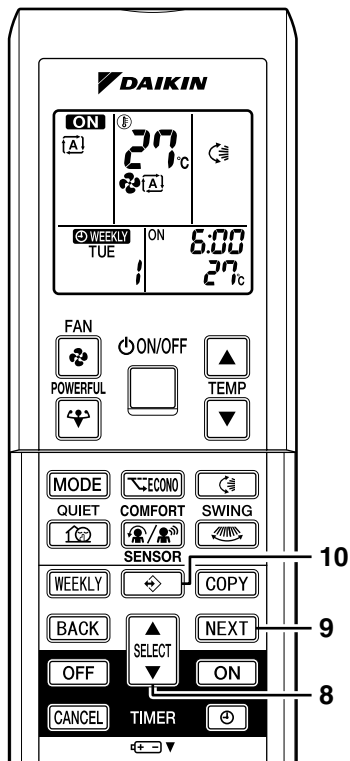
9. Press “NEXT button”.

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

10. Press “ button” 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.
- A reservation made once can be easily copied and the same settings used for another day of the week.

Refer to **Copy mode** . (page 25.)



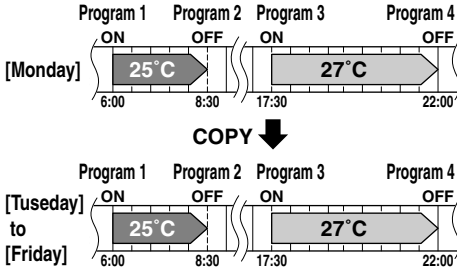
NOTE

■ Notes on WEEKLY TIMER operation

- Do not forget to set the clock on the remote control 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.
- Only the time and set temperature with the weekly timer are sent with the “ button”.
- 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 8.)
- The “BACK button” can be used only for the time and temperature settings. It cannot be used to go back to the reservation number.

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.



- Press “ button”.
- Press “SELECT button” to confirm the day of the week to be copied.
- Press “COPY button” to activate copy mode.

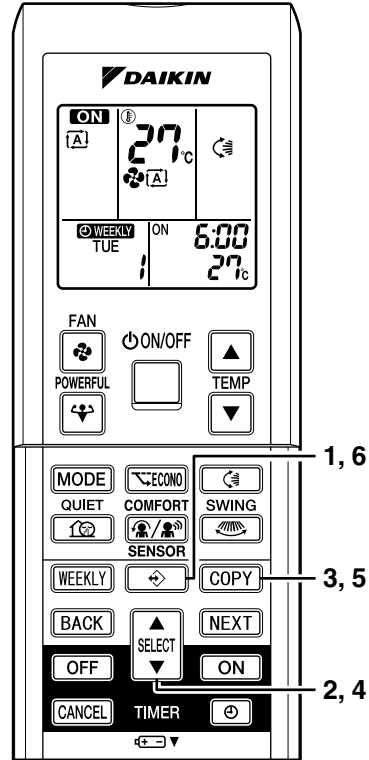
- The whole reservation of the selected day of the week will be copied.

- Press “SELECT button” to select the destination day of the week.
- Press “COPY button”.

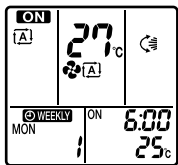
- The reservation will be copied to the selected day of the week. The whole reservation of the selected day of the week will be copied.
- To continue copying the settings to other days of the week, repeat STEP 4 and STEP 5.

- Press “ button” to complete the setting.

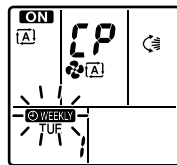
- “ WEEKLY” is displayed on the LCD and WEEKLY TIMER operation is activated.



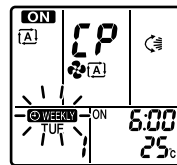
Setting Displays



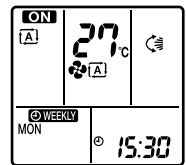
Confirmation display



Copy display



Paste display



Normal display

NOTE

■ 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 “ button” and change the settings in the steps of **Setting mode**. (page 23.)

WEEKLY TIMER Operation

■ Confirming a reservation

- The reservation can be confirmed.

1. Press “ button”.


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

2. Press “SELECT button” to select the day of the week and the reservation number to be confirmed.

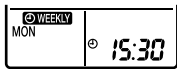
- Pressing the “SELECT button” displays the reservation details.
- To change the confirmed reserved settings, select the reservation number and press “NEXT button”. The mode is switched to setting mode. Go to **Setting mode** STEP 4. (page 23.)

Setting mode STEP 4. (page 23.)

3. Press “ button” to exit confirming mode.

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

Setting Displays



Normal display



Confirmation display

■ To deactivate WEEKLY TIMER operation

4. Press “WEEKLY button” while

“ WEEKLY” is displayed on the LCD.

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

■ To delete reservations

The individual reservation

- Refer to **Setting mode** (page 23.)
When selecting desired mode at STEP 4 in setting mode, select “blank”. The reservation will be deleted.

The reservations for each day of the week

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

5. Press “ button”.

6. Select the day of the week to be canceled with the “SELECT button”.

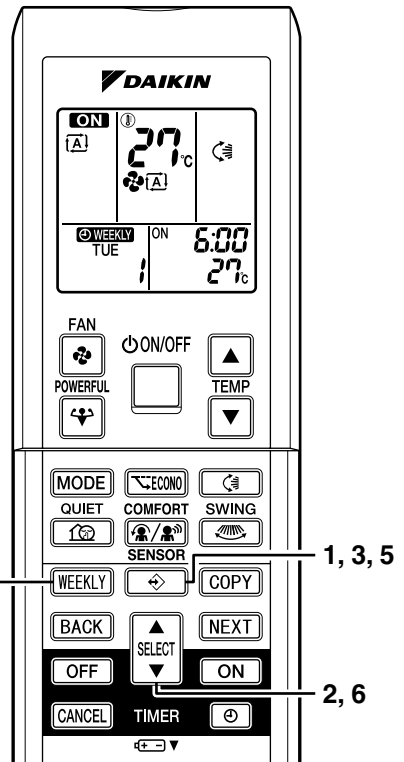
7. Hold the “WEEKLY button” for 5 seconds.

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

All reservations

8. Hold “WEEKLY button” for 5 seconds while normal display.

- Be sure to direct the remote control toward the main unit and check for a receiving tone.
- This operation is not effective on the setting display of WEEKLY TIMER.
- All reservations will be deleted.



Care and Cleaning



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

Units

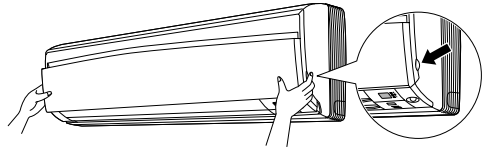
■ Indoor unit, outdoor unit and remote controller

1. Wipe them with softy cloth soak in water.

■ Front panel

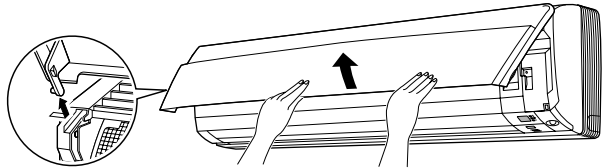
1. Open the front panel.

- Hold the front panel by the tabs on the both sides and lift it until it stops with a click.



2. Remove the front panel.

- Open the front panel further while sliding it to either the left or right and pulling it toward you. This will disconnect the rotation dowel on one side. Then disconnect the front panel shaft on the other side in the same manner.

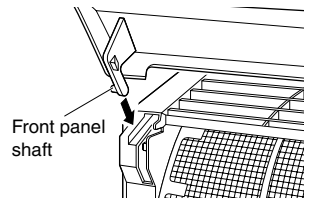


3. Clean the front panel.

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

4. Attach the front panel.

- Align the front panel shafts on the left and right of the front panel with the slots, then push them all the way in.
- Close the front panel slowly. (Press the panel at both sides and the center.)



CAUTION

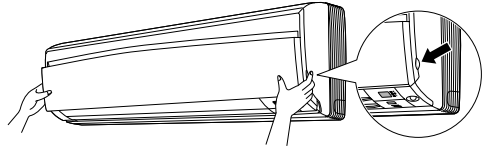
- Don't touch the metal parts of the indoor unit. If you touch those parts, this may cause an injury.
- When removing or attaching the front panel, use a robust and stable stool and watch your steps carefully.
- When removing or attaching the front panel, support the panel securely with hand to prevent it from falling.
- For cleaning, do not use hot water above 40°C, benzine, 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 27.)

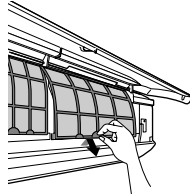
2. Pull out the air filters.

- Push a little upwards the tab at the center of each air filter, then pull it down.

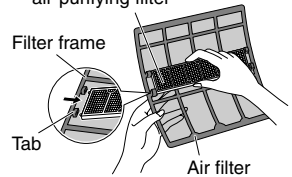


3. Take off the titanium apatite photocatalytic air-purifying filter.

- Hold the recessed parts of the frame and unhook the four claws.



Titanium apatite photocatalytic air-purifying filter

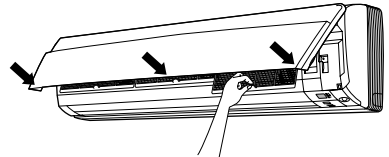


4. Clean or replace each filter.

See figure.

5. Set the air filter and the titanium apatite photocatalytic air-purifying filter as they were and close the front panel.

- Press the front panel at both sides and the center.



■ Air filter

1. 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.



■ 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.

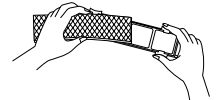
[Maintenance]

1. Remove dust with a vacuum cleaner and wash lightly with water.

- If it is very dirty, soak it for 10 to 15 minutes in water mixed with a neutral cleaning agent.

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]

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

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

Item	Part No.
Titanium apatite photocatalytic air-purifying filter (without frame) 1 set	KAF970A48

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. <ul style="list-style-type: none">• 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” button and select “FAN” operation.
 - Press “ON/OFF” button 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.**

Troubleshooting

These cases are not troubles.

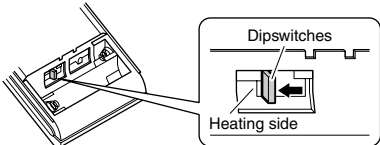
The following cases are not air conditioner troubles but have some reasons. You may just continue using it.

Case	Explanation
Operation does not start soon. <ul style="list-style-type: none"> When ON/OFF button was pressed soon after operation was stopped. When the mode was reselected. 	<ul style="list-style-type: none"> This is to protect the air conditioner. You should wait for about 3 minutes.
A sound is heard.	<ul style="list-style-type: none"> ■ A sound like a flow of water <ul style="list-style-type: none"> 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 it is 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 <ul style="list-style-type: none"> This sound is generated when the flow of the refrigerant in the air conditioner is switched over. ■ Pinging sound <ul style="list-style-type: none"> This sound is generated when the size of the air conditioner slightly expands or shrinks as a result of temperature changes.
Hot air does not flow out soon after the start of HEAT operation.	<ul style="list-style-type: none"> 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 HEAT operation stops suddenly and a flowing sound is heard.	<ul style="list-style-type: none"> 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.
The outdoor unit emits water or steam.	<ul style="list-style-type: none"> ■ In HEAT mode <ul style="list-style-type: none"> The frost on the outdoor unit melts into water or steam when the air conditioner is in defrost operation. ■ In COOL or DRY mode <ul style="list-style-type: none"> Moisture in the air condenses into water on the cool surface of outdoor unit piping and drips.
Mist comes out of the indoor unit.	<ul style="list-style-type: none"> ■ This happens when the air in the room is cooled into mist by the cold airflow during cooling operation. ■ This is because the air in the room is cooled by the heat exchanger and becomes mist during defrost operation.
The indoor unit gives out odour.	<ul style="list-style-type: none"> ■ 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.)
The outdoor fan rotates while the air conditioner is not in operation.	<ul style="list-style-type: none"> ■ After operation is stopped: <ul style="list-style-type: none"> The outdoor fan continues rotating for another 60 seconds for system protection. ■ While the air conditioner is not in operation: <ul style="list-style-type: none"> When the outdoor temperature is very high, the outdoor fan starts rotating for system protection.

Case	Explanation
The operation stopped suddenly. (OPERATION 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.
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 set the batteries of this manual. (page 7.) * If the reset button is provided, press the reset button after the batteries are replaced.
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 disable the settings in the WEEKLY TIMER. (page 23.)

Check again.

Please check again before calling a repair person.

Case	Check
The air conditioner does not operate. (OPERATION lamp is off.)	<ul style="list-style-type: none"> • Hasn't a breaker turned off or a fuse blown? • Isn't it a power failure? • Are batteries set in the remote controller? • Is the timer setting correct?
Cooling (Heating) effect is poor.	<ul style="list-style-type: none"> • Are the air filters clean? • Is there anything to block 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 air direction set appropriately?
Operation stops suddenly. (OPERATION lamp flashes.)	<ul style="list-style-type: none"> • Are the air filters clean? Clean the air filters. • Is there anything to block the air inlet or the outlet of the indoor and the outdoor units? Turn the bleaker off 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.
An abnormal functioning happens during operation.	<ul style="list-style-type: none"> • 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.
Heating cannot be selected, even though the unit is heat pump model.	<ul style="list-style-type: none"> • Slide the DIP switch to the left as shown in the illustration so that the heating mode can be selected with the mode selector button. <div style="text-align: center;">  </div>

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.

Disposal requirements

Dismantling of the unit, treatment of the refrigerant, oil and eventual other parts, should be done in accordance with the relevant local and national regulations.

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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