12. Operation Manual

Safety Precautions

- Read the following warnings and cautions carefully before operating the system and use it correctly.
- This manual classifies the precautions to the user into the following two categories. Be sure to follow all as they are all important to ensure safety.
- After reading this manual, keep it in a place easily accessible to the user for future reference.

⚠ WARNING	Failure to follow a warning is very likely to result in such grave consequences as death or serious injury.
⚠ CAUTION	Failure to follow a caution may result in serious injury or property damage, and in certain conditions, may result in a grave consequence.

⚠ WARNING

Do not attempt to extend the power cord by joining it to another cord, or by using an extension cord. Do not put any other loads on the power supply socket. Failure to follow this will cause electric shocks, abnormal heating or fire.	**Do not damage or attempt to modify the power cord. Do not use the cord in a damaged state or tied in a bundle.** Applying a heavy weight, heat or tension on the power cord will damage it, causing electric shocks or fire.	**Do not expose your body to the cool (heat) air for a long time; do not cool (heat) the room too much.** It will affect your physical conditions and cause health problems.
Do not put a finger, a rod or other objects into the air outlet or inlet. As the fan is rotating at a high speed, it will cause injury.	**Do not attempt to repair, relocate, modify or reinstall the air conditioner by yourself.** Incorrect work will cause electric shocks, fire etc. For repairs and reinstallation, consult the shop where you bought the air conditioner.	**If anything abnormal such as a burning smell occurs, stop the operation immediately and turn the breaker OFF.** Continued abnormal operation will cause troubles, electric shocks, fire etc. If anything is abnormal, consult the shop where you bought the air conditioner.

⚠ CAUTION

Do not use the air conditioner for preservation purposes. Do not use it for preserving precision instruments, foods, plants, animals, works of fine arts etc. Performance or quality may deteriorate and animal or plant life may be shorter.	**Do not operate the air conditioner with a wet hand.** It may cause an electric shock.	**Ventilate the room from time to time.** Be careful especially when using a burning appliance in the same room. Insufficient ventilation may cause shortage of oxygen.
Before cleaning, be sure to stop the operation and turn the breaker OFF. As a fan is rotating at a high speed, cleaning during operation may cause injury.	**After a long use, check the unit stand and fittings for damage.** The unit may drop and cause injury if damage is left unrepaired.	**Do not stand or sit on the outdoor unit. Do not place any object on the unit.** The object or the person may fall down or drop, causing injury.
Do not place under the indoor or outdoor unit anything which must be kept away from moisture. Indoor unit: moisture in the air may condense and drip in certain conditions. Outdoor unit: during cooling operation, condensation may drip from the piping connections.	**Do not wash the unit with water.** It may cause an electric shock.	**Do not expose plants or animals directly to the air flow.** It may cause adverse effects on the plant or the animal.
Do not place a vessel containing water on the unit. Water may penetrate into the unit and degrade electrical insulations, resulting in an electric shock.	**Do not place a burning appliance in places exposed to the air flow from the unit or under the indoor unit.** It may cause incomplete combustion or deformation of the unit from heat.	**Do not block air inlets nor outlets.** Impaired air flow may result in insufficient performance or troubles.

2

Installation

⚠ WARNING

Do not attempt to install the air conditioner by yourself.

Consult the service shop or a qualified technician.
Incorrect work will result in water leakage, electric shocks or fire. For installation, consult the service shop where you bought the unit or a qualified technician.

The air conditioner must be earthed.

Incomplete earthing may result in electric shocks.
Do not connect the earth line to a gas pipe, water pipe, lightening rod, or a telephone earth line.

⚠ CAUTION

Do not connect the air conditioner to a power supply different from the specification.

It may cause trouble or fire.

Depending on the environment, an earth leakage breaker must be installed.

Lack of an earth leakage breaker may result in electric shocks.

Do not install the air conditioner in places where flammable gas may leak.

If leaked gas should accumulate near the unit, fire may occur.

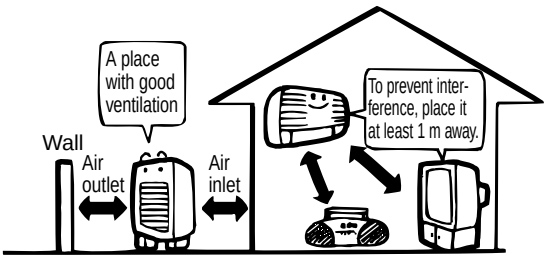
Arrange the drain hose to ensure smooth drainage.

Incomplete drainage may cause wetting of the building, furniture etc.

Installation site

■ To install the air conditioner in the following types of environments, consult the shop.
- 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 drain from the outdoor unit must be discharged to a place of good drainage.



- For efficient operation, take as large spaces around the unit as site allows.

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

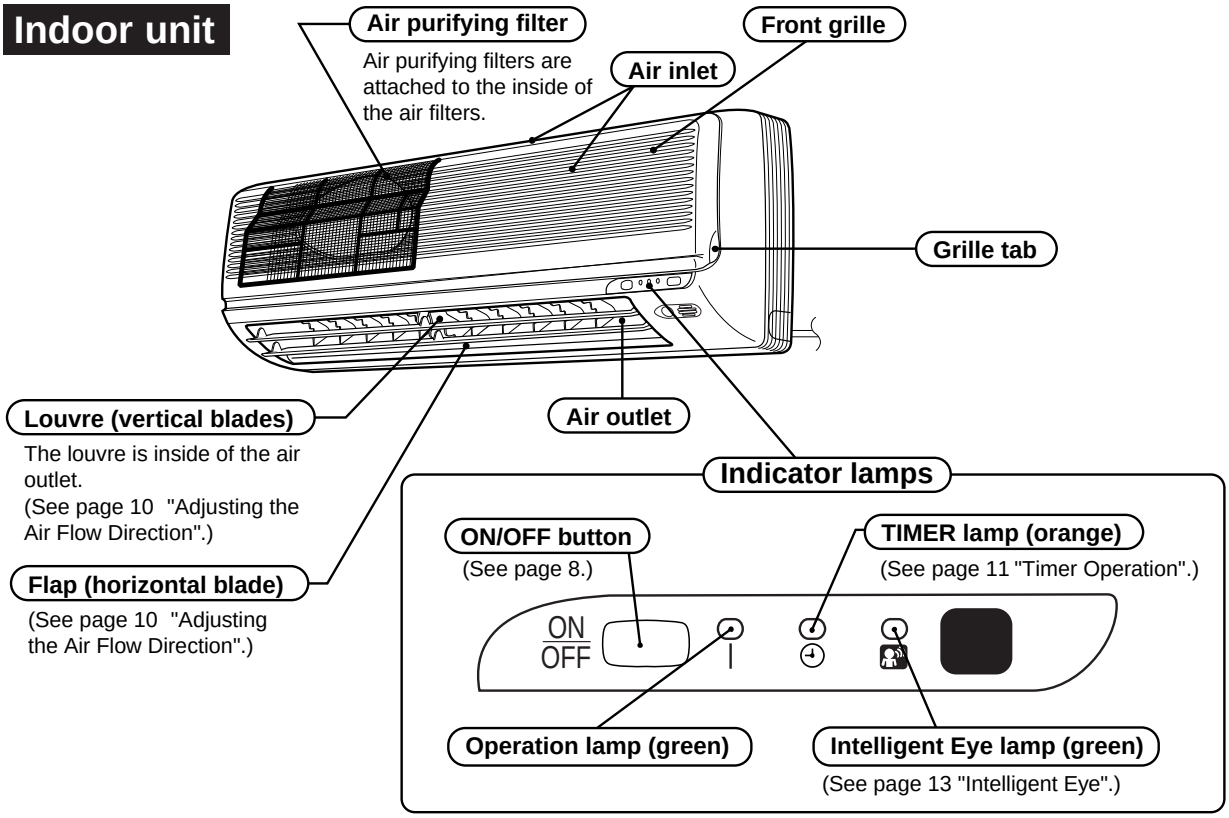
- For power supply, be sure to use a separate power circuit dedicated to the air conditioner.

System relocation

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

Names of Parts

Indoor unit

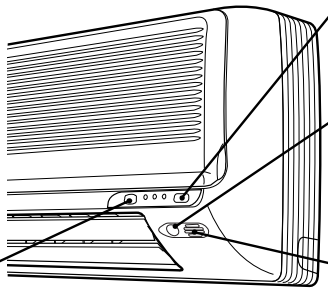


Opening the front grille

How to open the front grille : (See page 14 "Care and Cleaning".)

⚠ CAUTION

Before opening the front grille, be sure to stop the operation and turn the breaker OFF. If the power is on, the fan may rotate inside and may cause injury.



Receiver:

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

Intelligent Eye:

- It detects the movements of people and automatically switches between normal operation and save operation. (See page 13.)

ON/OFF button

- Push this button once to start operation. Push once again to stop it.
- This button is useful when the remote controller is missing.
- **The operation mode refers to the following table.**

	Mode	Temperature setting	Air flow rate
FTK	COOL	22˚C	AUTO
FTX	AUTO	25˚C	AUTO

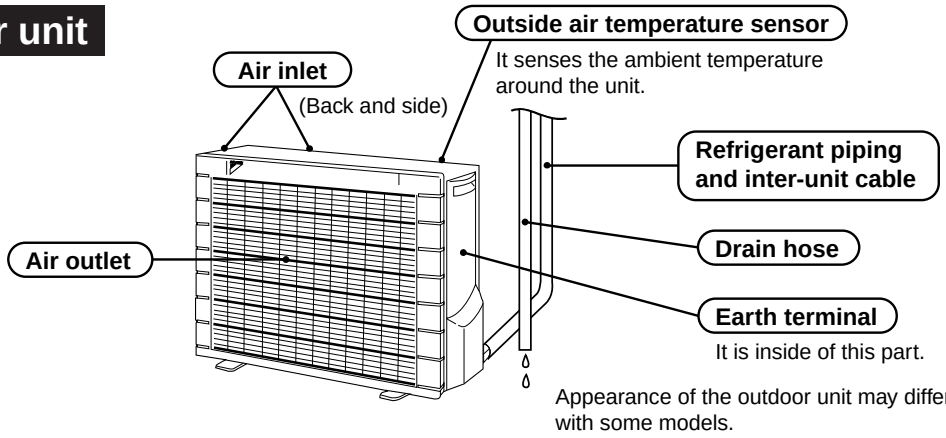
- In the case of multi system operation, there are times when the unit does not activate with this button. (See page 8.)

Room temperature sensor:

- It senses the air temperature around the unit.

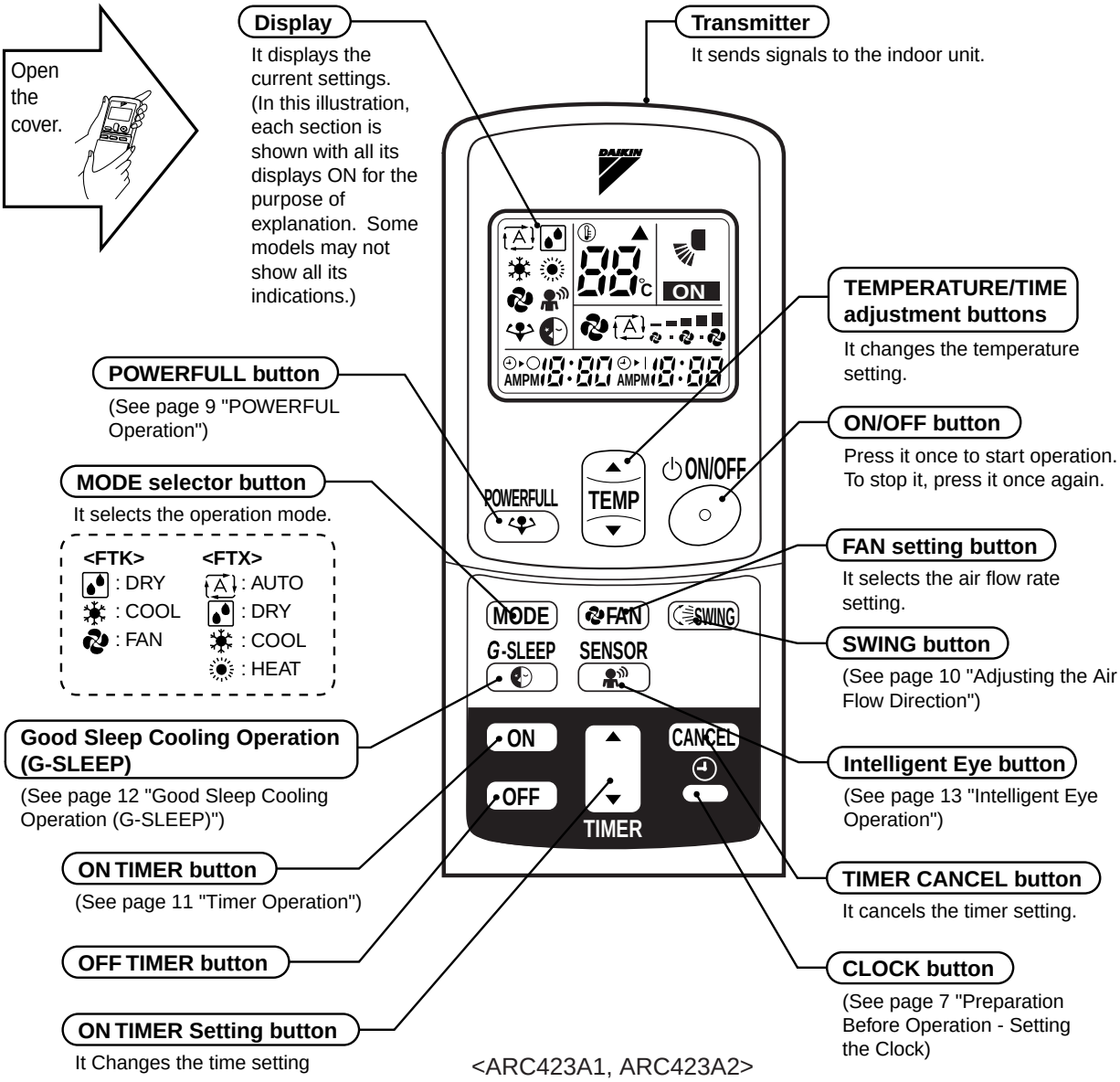
Names of Parts

Outdoor unit



Remote controller

<FTK25, 35 FTX25, 35>



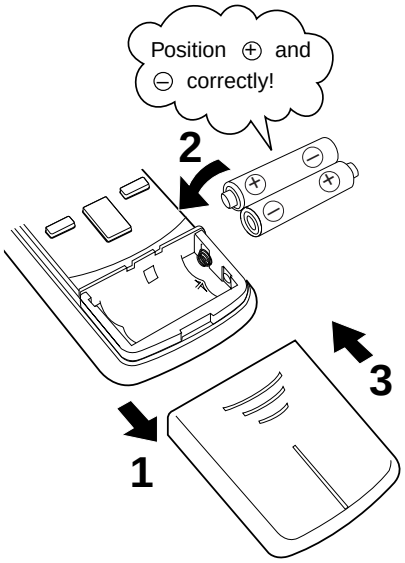
<ARC423A1, ARC423A2>

5

Preparation Before Operation

Remote controller

■ Setting the batteries



1 Press with a finger and slide the back cover to take it off.

2 Set two dry batteries (AAA).

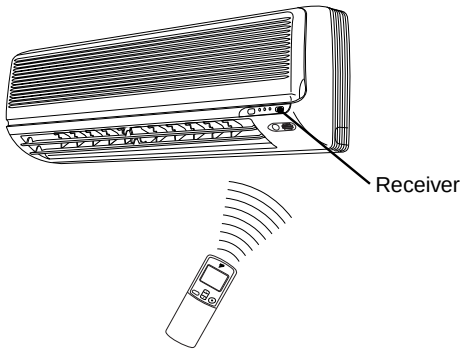
3 Set the back cover as before.
- This will cause the figures on the display to flash. Set the clock at this point.

ATTENTION

About batteries
- When replacing the batteries, use batteries of the same type, and replace the two old batteries together.
- When the system is not used for a long time, take the batteries out.
- When the operation display screen of the remote controller is hard to see and the reception become hard, replace the batteries with new AAA batteries.
- 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.

■ Operating 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 about 7 m.

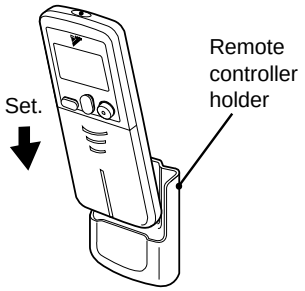


■ To fix the remote controller holder on the wall

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 Fit the claw of the holder into the bottom of the remote controller, and push the remote controller onto the wall.



- To remove, pull it upwards.

ATTENTION

About the remote controller
- Never expose the remote controller to direct sunlight.
- Dust on the signal transmitter or receiver will reduce the sensitivity. Wipe off dust with soft cloth.
- Signal communication may be disabled if an 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 control signals happen to operate another appliance, move that appliance to somewhere else, or consult the shop.

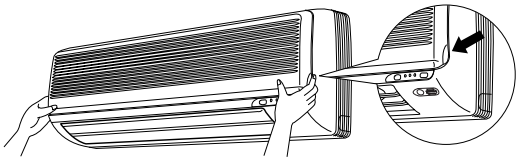
Preparation Before Operation

Indoor unit

■ Setting the air purifying filters

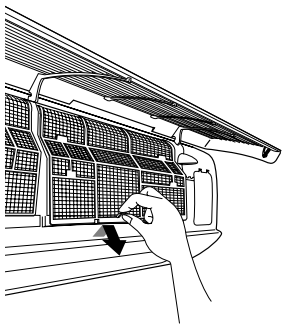
1 Open the front grille

- Hold the grille by the tabs on the two sides and lift it until it stops with a click. (about 60˚)



2 Pull out the air filters.

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



3 Set the air purifying filters.

- Attach an air purifying filter to each air filter. (See page 14 "Care and cleaning")

4 Set the air filters in their original positions and close the front grille.

- Operation without air filters may result in troubles as dust will accumulate inside the indoor unit.

■ Setting the clock

1 Press ⏲.

AM 0:00 is displayed.

⏲ blinks.

2 Press ▲▼ TIMER to set the clock to the present time.

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

3 Press ⏲.

: blinks.

(Now the clock is set.)

■ Turn the breaker ON

- Turning ON the breaker opens the flap, then closes it again. (This is a normal procedure.)

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.

Recommended temperature setting

For cooling: 26˚C – 28˚C
For heating: 20˚C – 24˚C

- 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 two weeks.

Please note

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

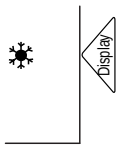
Mode	Operating conditions	If operation is continued out of this range:
COOL	Outdoor temperature : 10 to 46˚C (In 2MX, 3MX, and 4MX : 10 to 43˚C) Indoor temperature : 18 to 32˚C Indoor humidity : 80% max.	• A safety device may work to stop the operation. (In multi system, it may work to stop the operation of the outdoor unit only.) • Condensation may occur on the indoor unit and drip.
HEAT	Outdoor temperature : –10 to 21˚C Indoor temperature : 10 to 30˚C	• A safety device may work to stop the operation.
DRY	Outdoor temperature : 21 to 46˚C (In 2MX, 3MX, and 4MX : 21 to 43˚C) Indoor temperature : 18 to 32˚C Indoor humidity : 80% max.	• A safety device may work to stop the operation. • Condensation may occur on the indoor unit and drip.

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

AUTO • DRY • COOL • HEAT • FAN Operation

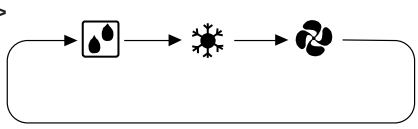
The air conditioner operates with the settings of your choice.
From the next time on, the air conditioner will operate with the same settings.

1 Press MODE and select a mode.

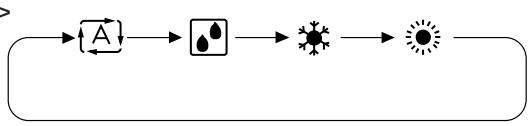


- Each pressing of the button advances the mode setting in sequence.

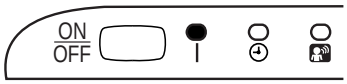
<FTK>



<FTX>



2 Press ON/OFF. Then OPERATION lamp lights up.

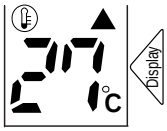


■ To stop:

Press ON/OFF once again.

Then OPERATION lamp goes off.

■ To change the temperature setting:

DRY or FAN mode	AUTO or HEAT or COOL 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 air flow rate setting:

Press FAN.

DRY mode	AUTO or HEAT or COOL or FAN mode
The air flow rate setting is not variable.	Five levels of air flow rate setting from " " to " " plus " " are available.

- At smaller air flow rates, cooling or heating effect is also smallwer.

■ To change the air flow direction:

(See page 10.)

NOTE

<Note on HEAT mode operation>

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

<Note on DRY mode operation>

This operation dehumidifies the indoor air when it is humid.

<Note on AUTO operation>

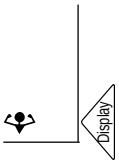
In AUTO operation, the system selects a temperature setting and an appropriate mode (COOL or HEAT) based on the room temperature at the start of the operation.
The system automatically reselects setting at a regular interval to bring the room temperature to user-setting level.
If you do not like AUTO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

POWERFUL Operation

POWERFUL operation quickly maximizes the cooling effect in any operation mode. You can get the maximum capacity with a touch of a button.

- Pressing the (POWERFUL) button during operation starts POWERFUL operation.
- POWERFUL operation ends in 20 minutes. Then the system automatically operates again with the settings which were used before POWERFUL operation.

1 Press .



■ To cancel POWERFUL operation:

Press .

Notes on POWERFUL operation

- **In COOL and HEAT mode**
  To maximize the cooling and heating effect, the capacity of outdoor unit must be increased and the air flow rate be fixed to the maximum setting.
  The temperature and air flow settings are not variable.
- **In DRY mode**
  The temperature setting is lowered by 3˚C and the air flow rate is slightly increased.
- **In FAN mode**
  The air flow rate is fixed to the maximum setting.

Note for Multi System

- Precedence-room setting

  When setting the preference-room during installation, the indoor unit's operation mode always takes priority.
  When the precedence-setting room unit is operated in POWERFUL mode, there are times that air conditioners in other rooms will temporarily stop in order to centralize power to the unit in the room.
  Please adjust the precedence-room setting to match your life style. Moreover, for precedence-room settings, please consult the service shop where you bought the unit.

∗ Precedence-room setting is applied to only 4MX80, 4MK90.

- COOL/HEAT mode

  This mode is used to set the unit to only cool or heat. For information on using this mode, consult the service shop where you bought the unit.

∗ COOL/HEAT mode is applied to only 4MX80, 4MK90.

NOTE

<Note for heat pump multi system>

When two or more indoor units have no precedence-room settings and are set to modes that differ from each other, the indoor unit which is operated first activates, while the other indoor unit does not activate and the OPERATION lamp blinks. (This is not a malfunction.)
An indoor unit that is not in operation will automatically start and operate in the mode in which a previously operated indoor unit was stopped. However, if the unit in operation provides only COOL and DRY modes, simultaneous operation is possible.

Adjusting the Air Flow Direction

You can adjust the air flow direction to increase your comfort.

Adjusting the horizontal blade (flap)

Press (SWING) .

- Every time the button is pressed, " " appears or disappears.

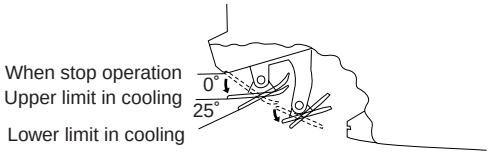
..... The flap automatically swings up and down.

..... To stop the flap at an angle you like, press (SWING) .

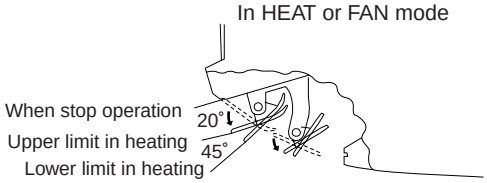
Notes on flap angles

- When (SWING) is selected, the flap swinging range depends on the operation mode. (See the figure.)
- The real flap angles are differ from the display of remote controller.

In DRY mode or COOL mode



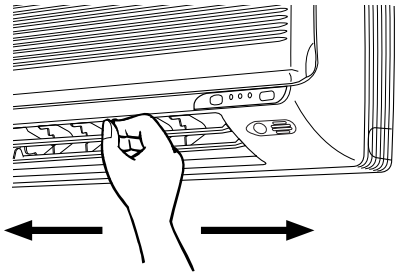
In HEAT or FAN mode



ATTENTION

- Always use a remote controller to adjust the flap angle. If you attempt to move it forcibly with hand when it is swinging, the mechanism may be broken.

Adjusting the louvre



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

ATTENTION

- Be careful when adjusting the louvre. Inside the air outlet, a fan is rotating at a high speed.

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.

OFF TIMER operation

- Check that the clock is correct.
  If not, set the clock to the present time. (See page 7.)

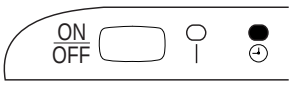
1 Press OFF while the air conditioner is operating.

AM 0:00 is displayed.
blinks.
* Previous time setting appears on display.

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

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

3 Press OFF once again.



Then the TIMER lamp lights up.

■ To cancel the timer:

Press CANCEL . Then the TIMER lamp goes off.

Notes on OFF TIMER

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

ON TIMER operation

- Check that the clock is correct. If not, set the clock to the present time (See page 7).

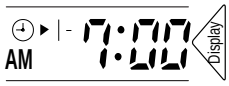
1 Press ON while the air conditioner is not operating.

AM 6:00 is displayed.
blinks.
* Previous time setting appears on display.

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

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

3 Press ON once again.



Then the TIMER lamp lights up.

■ To cancel the timer:

Press CANCEL .

Then the TIMER lamp goes off.

Combining ON TIMER and OFF TIMER

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

(Example)

Present time: 11:00 PM
(The unit operating)
OFF TIMER at 0:00 a.m.) Combined
ON TIMER at 7:00 a.m.)

Notes on ON,OFF TIMER

- 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.)

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.

Good Sleep Cooling Operation (G-SLEEP)

•The "Good Sleep Cooling Operation" makes the **1/f Fluctuating Temperature**.
It brings you comfortable sleep as it prevents from getting chilied.

1 Press G-SLEEP in cooling operation.

■ **To change the temperature setting.** (See page 8.)

■ **To change the air flow rate setting.** (See page 8.)

■ **To change the air flow direction setting.** (See page 10.)

■ **To cancel the "Good Sleep Cooling Operation", press G-SLEEP .**
→ Back to the normal cooling opration.

Notes on "Good sleep cooling operation"

- We adopt the 1/f fluctuation rhythm in temperature control.
  A 1/f fluctuation rhythm is used in temperature control. With it, temperature is fluctuated within a ±1˚C range of the set temperature.
  The 1/f fluctuation is comfortable rhythm existed in the natural world. (refer to "What's the 1/f fluctuation")
- Air blow is the lowest when the fan is set to "AUTO".
- If you don't like this function, change the operation mode. (See page 8)

What is 1/f fluctuation...

It seems irregular but there seems to be a self-resemblance rule in our mother nature.
For example, the waves in the ocean forms irregularly but when you look at the coast line, there are some places where they look similar.
When you look close around you, our heart doesn't beat in regular intervals but shows "1/f fluctuation" in a long term. The research shows this "1/f fluctuation" and comfort has some kind of relation and is applied to the comfort control fiels.

Intelligent Eye

"Intelligent Eye" is the infrared sensor which detecs the human movement.

1 Press SENSOR While the air conditioner is operating. (The Sensor lamp lights up.)

■ To cancel the "Intelligent Eye",

press SENSOR . (The Sensor lamp goes off.)

[EX.]

When somebody in the room
- **Normal operation**

(The sensor lamp lights up.)

When nobody in the room
- **20 min. after, start save operation.***

(The sensor lamp goes off.)

Sombody back in the room
- **Back to normal operation.**

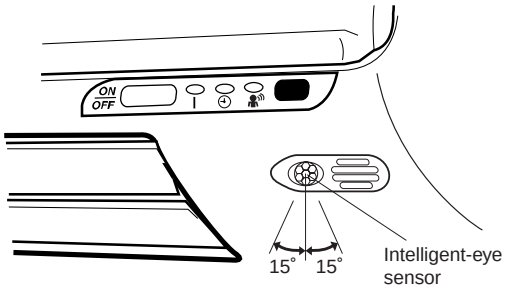
(The sensor lamp lights up again.)

"Intelligent Eye" is useful for *Energy Saving*

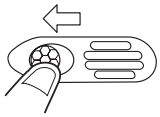
*** Save operation**
- Change the temperature –2˚C in heat/ +2˚C in cool/ +1˚C in dry mode from set temperature.
- Decrease the air flow rate slightly in fan operation.

■ Adjusting the angle of the Intelligent-eye sensor

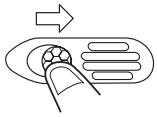
- You can adjust the angle of the Intelligent-eye sensor to remove the detection area. (Adjustable angle: 15˚ to right and left of centre)



- Gently push and slide the sensor to adjust the angle.



Moving the sensor to the left



Moving the sensor to the right

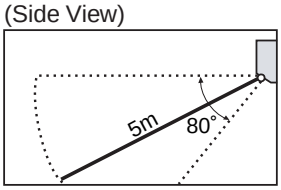
- After adjusting the angle, gently wipe the sensor with a clean cloth, being careful not to scratch the sensor.

CAUTION
- Do not hit or violently push the Intelligent-eye sensor. This can lead to damage and malfunction.

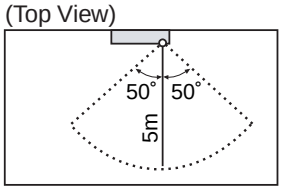
Notes on "Intelligent Eye"

- Application range is as follows.

Vertical angle 40˚ (Side View)



Horizontal angle 50˚ (Top View)



- Sensor may not respond when you are 5m or more 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.
- Saving operation will not go on during powerful operation.
- Night set mode (see page 11.) will not go on during you use Intelligent Eye.
- You can sleep more comfortablly by using "Good Sleep Cooling Operation (G-SLEEP)" function (see page 12.) at the same time.

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 objects it shouldn't as well as not detect objects it should.

Care and Cleaning

CAUTION

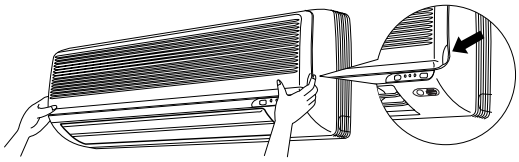
Before cleaning, be sure to stop the operation and turn the breaker OFF.

Cleaning the air filters

(It is recommended to clean them every two weeks.)

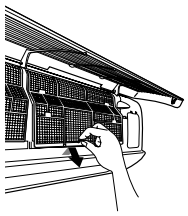
1 Open the front grille

- Hold the grille by the tabs on the two sides and lift it unitl it stops with a click. (about 60˚)



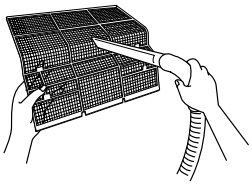
2 Pull out the air filters.

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

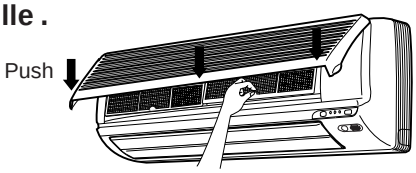


3 Take off the air purifying filters and clean them.

- Wash them with water, or clean them with a 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.



4 Set the air purifying filters and the air filters as they were and close the front grille.



- Insert claws of the filters into slots of the front panel. The front grille should lock at both sides and at the point in the middle. Push the grille at the 3 points indicated by ⬇.

NOTE

- In a dusty environment, clean the air filters at least once in every two weeks even before the cleaning lamp lights up.
- Operation with dusty air filters lowers the cooling and heating capacity and wastes energy.

Cleaning the indoor and outdoor units and the remote controller

- Wipe them with dry soft cloth.
  For cleaning, do not use water hotter than 40˚C, benzine, gasoline, thinner, nor other volatile oils, polishing compound, scrubbing brushes nor other hard stuff.

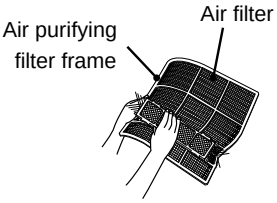
Replacing air purifying filters

(It is recommended to replace them every three months.)

- Air purifying filters need to be replaced regularly.

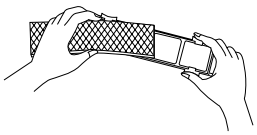
1 Open the front grille and pull out the air filters.

2 Take off the air purifying filters.

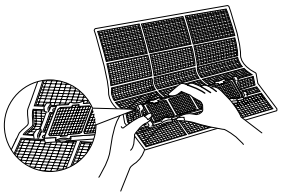


- Hold the recessed parts of the frame and unhook the four claws.

3 Detach the filter element and attach a new one.



4 Attach the air purifying filter.



5 Set the air filters as they were and close the front grille.

(Push the grille at the 3 points, two at both sides and in the middle.)

NOTE

- To order air purifying filters, contact the service shop where you bought the air conditioner.
- Once the air purifying filter element gets dirty, it is not reusable but must be thrown away.
- Operation with dirty air purifying filters :
  - cannot clean the air.
  - results in poor cooling.
  - may cause odour.

Item	Part No.
Air purifying filter (with frame)	KAF918A41
Air purifying filter (without frame)	KAF918A42

Care and Cleaning

Cleaning the front grille

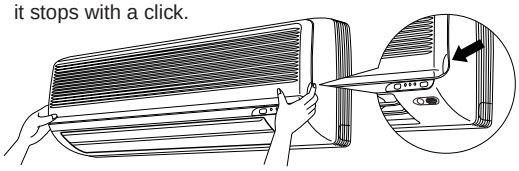
You may remove the front grille for cleaning.

CAUTION

- When removing or attaching the front grille, use a robust and stable stool and watch your steps carefully.
- When removing or attaching the front grille, support the grille securely with hand to prevent it from falling.
- For cleaning, do not use water hotter than 40˚C, benzine, gasoline, thinner, nor other volatile oils, polishing compound, scrubbing brushes nor othe hard stuff.
- After cleaning, make sure that the front grille is securely fixed.

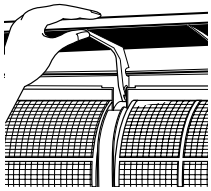
1 Open the front grille.

- Hold the grille by the tabs on the two sides and lift it until it stops with a click.



2 Remove the front grille.

- Supporting the front grille with one hand, release the lock by sliding down the knob with the other hand.
- To remove the front grille, pull it toward yourself with both hands.

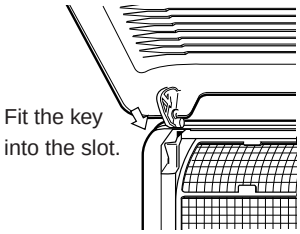


3 Clean the front grille.

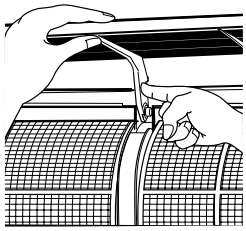
- You may wipe it with a soft cloth soaked in water.
- Only neutral detergent may be used.
- You may wash the grille with water. After washing, dry it with cloth, then dry it up in the shade.

4 Attach the front grille.

- Set the 3 keys of the front grille into the slots and push them in all the way.
- Supporting the front grille with one hand, fit the lock by sliding up the knob with the other hand.
- Close the front grille slowly in this state. (Push the grille at the 3 points, two at both sides and in the middle.)



Fit the key into the slot.



Slide up the knob.

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 earth wire is not disconnected or broken.

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 alone for several hours on a fine day to dry out the inside.

<FTK>

1 Press MODE and select " ".

2 Press ON/OFF .

<FTX>

1 Press MODE and select " ".

2 Press TEMP and set the temperature to 32˚C

3 Press ON/OFF .

- Perform this operation when the room temperature is under 28˚C.

2 Clean the air filters and set them again.
3 Take out batteries from the remote controller.
4 Turn OFF the breaker for the room air conditioner.

Trouble Shooting

● **These cases are not troubles.**

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

Case	Explanation
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.
Hot air does not flow out soon after the start of heating 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 heating operation stops suddenly and a flowing sound is heard.	● The system is taking away the frost on the outdoor unit. You should wait for about 3 to 8 minutes.
The outdoor unit emits water or steam.	■ In HEAT mode • The frost on the outdoor unit melts into water or steam when the air conditioner is in defrost operation. ■ In COOL or DRY mode • Moisture in the air condenses into water on the cool surface of outdoor unit piping and drips.
Mists come out of the indoor unit.	■ This happens when the air in the room is cooled into mist by the cold air flow during cooling operation.
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 air flow. (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.	■ After operation is stopped: • The outdoor fan continues rotating for another 30 seconds for system protection. ■ While the air conditioner is not in operation: • When the outdoor temperature is very high, the out door fan starts rotating for system protection.
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.

Trouble Shooting

● **Check again**

Please check again before calling a repair person.

Case	Check
The air conditioner does not operate. (OPERATION lamp is off)	● 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 address switch in the remote controller set correctly? (See page 6 "Preparation Before Operation".) ● Is the timer setting correct?
Cooling or Heating effect is poor.	● 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 air flow rate and the air direction set appropriately? ● Is the unit set to the Intelligent Eye mode? (See page 13.)
Operation stops suddenly. (OPERATION lamp blinks.)	● Are the air filters clean? ● Is there anything to block the air inlet or the outlet of the indoor and the outdoor units? Clean the air filters or take all obstacles away and turn the breaker OFF. Then turn it ON again and try operating the air conditioner with the remote controller. If the lamp still blinks, 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 blink. 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 blinking after the above steps, there is no malfunction. (See page 8.)
An abnormal functioning happens during operation.	● The air conditioner may malfunction with lightening or radio waves. Turn the breaker OFF, turn it ON again and try operating the air conditioner with the remote controller.

Trouble Shooting

● **Call the service shop immediately.**

WARNING

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

Continued operation in an abnormal condition may result in troubles, electric shocks or fire.

Consult the service shop where you bought the air conditioner.

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

Incorrect work may result in electric shocks or fire.

Consult the service shop where you bought the air conditioner.

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

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

Turn the breaker OFF and call the service shop.

■ After a power failure

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

■ Lightening

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

We recommend periodical maintenance

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

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